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Interoperability Testing for Maritime Digital Selective Calling (DSC) Radios; Part 2: Class A/B Test Descriptions

Reference
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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Electromagnetic compatibility and Radio spectrum Matters (ERM).

The present document is part 2 of a multi-part deliverable. Full details of the entire series can be found in part 1 [i.1].

Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the ETSI Drafting Rules (Verbal forms for the expression of provisions).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

1 Scope

The present document contains the Test Descriptions (TD) for interoperability testing of the class A/B DSC radio equipment.

2 References

2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found at https://docbox.etsi.org/Reference.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are necessary for the application of the present document.

[1] ETSI EN 300 338-2: "Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service; Part 2: Class A/B DSC".

[2] Recommendation ITU-R M.585-8: "Assignment and use of identities in the maritime mobile service".

2.2 Informative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

NOTE: While any hyperlinks included in this clause were valid at the time of publication, ETSI cannot guarantee their long term validity.

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

[i.1] ETSI TS 101 570-1: "Electromagnetic compatibility and Radio spectrum Matters (ERM); Interoperability Testing for Maritime Digital Selective Calling (DSC) Radios; Part 1: Requirements catalogue".

[i.2] ETSI EN 300 338-1: "Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service; Part 1: Common requirements".

3 Definition of terms, symbols and abbreviations

3.1 Terms

For the purposes of the present document, the following terms apply:

class M: specific class of DSC functionality for use by man overboard devices

closed loop: class M individual transmission to own vessel

leap second: second which is occasionally inserted into the atomic scale of reckoning time in order to bring it into line with solar time

open loop: class M transmitting to all ships (broadcast) 'using All ships call types'

3.2 Symbols

Void.

3.3 Abbreviations

For the purposes of the present document, the abbreviations given in ETSI EN 300 338-1 [i.2] and the following apply:

AIS	Automatic Identification System
CF	(Test) ConFiguration
EUT	Equipment Under Test
GNSS	Global Navigation Satellite System
MOB	Man OverBoard
NACK	Negative ACKnowledgement
QE	Qualified Equipment (i.e. DSC standards compliant)
TD	Test Description
TP	Test Purpose
TSS	Test Suite Structure
UTC	Universal Time Co-ordinated

4 Test Configurations

This clause defines all test configurations used. Each test description refers to one or multiple test configurations. It is assumed that the initial state of all the equipment involved in the test configuration is 'standby' for DSC radios or 'deactivated' for MOB devices, i.e. unless stated otherwise the pre-test conditions of each test description assume standby/idle mode for the equipment.

An arrow connection between devices indicates that these devices are in communication range, i.e. in CF_VHF_6 EUT, QE1 and QE2 are all in the same communication range. However, QE3 is only in communication range with QE2.

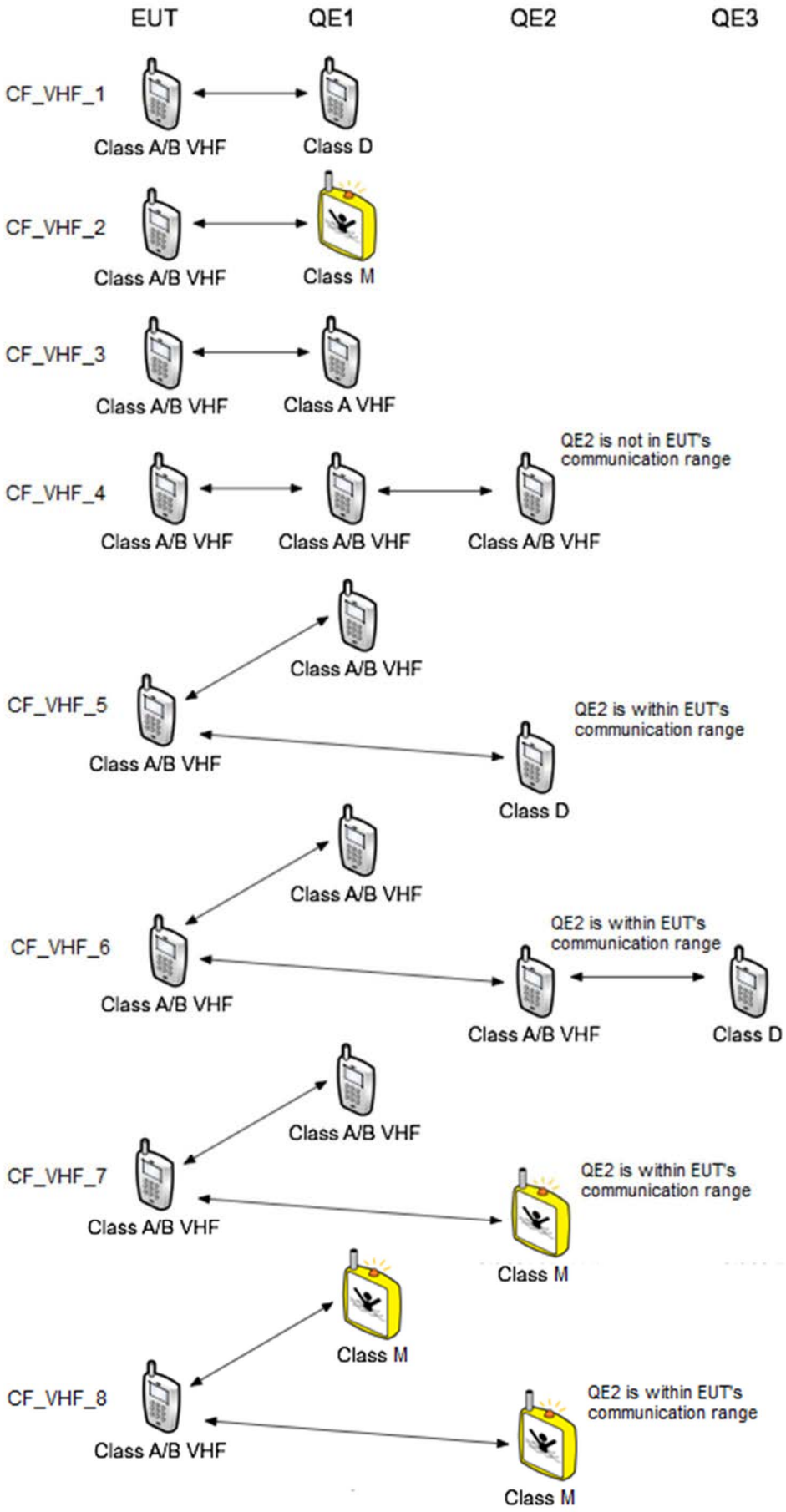


Figure 1: Configurations for VHF EUT

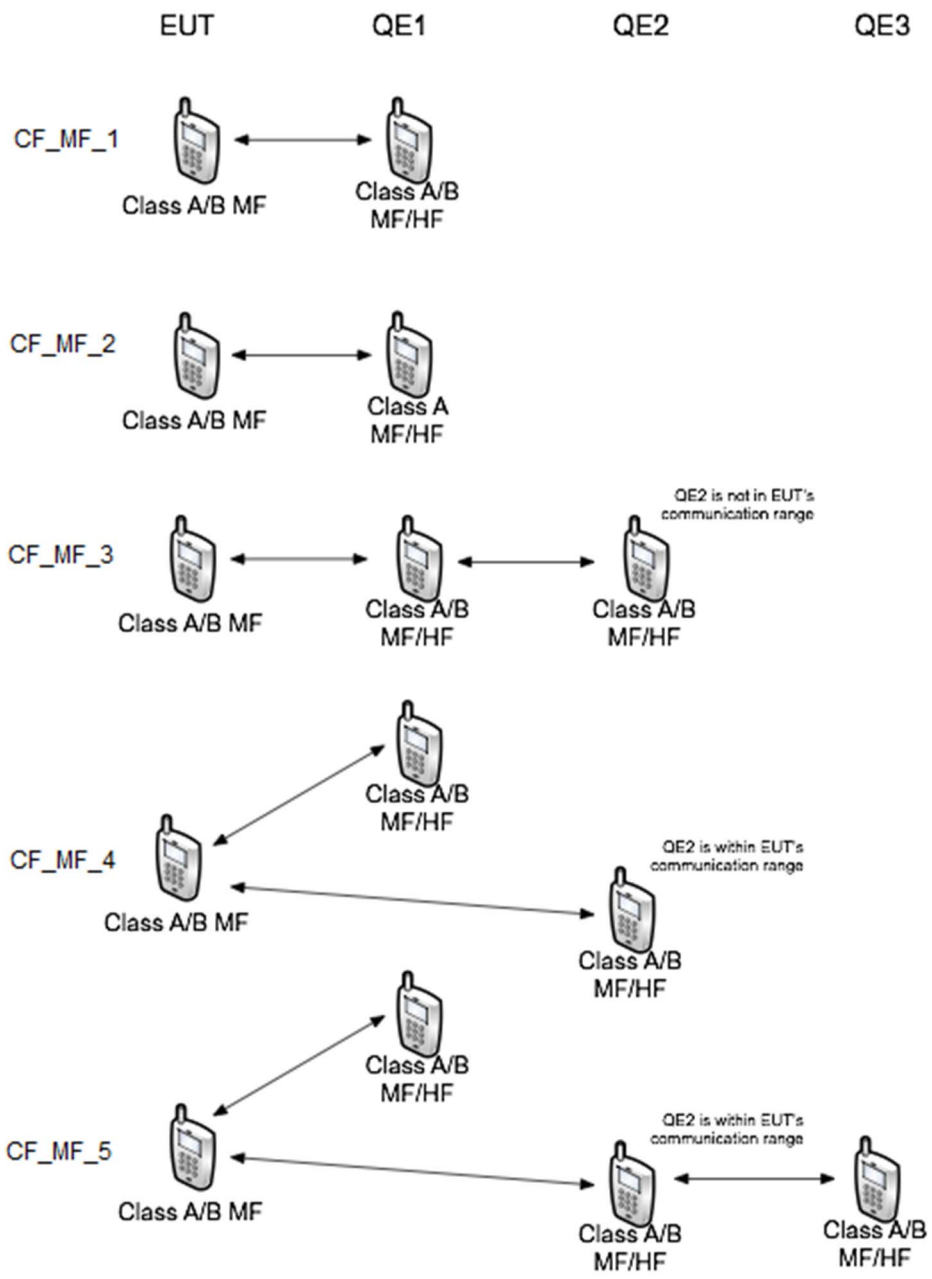
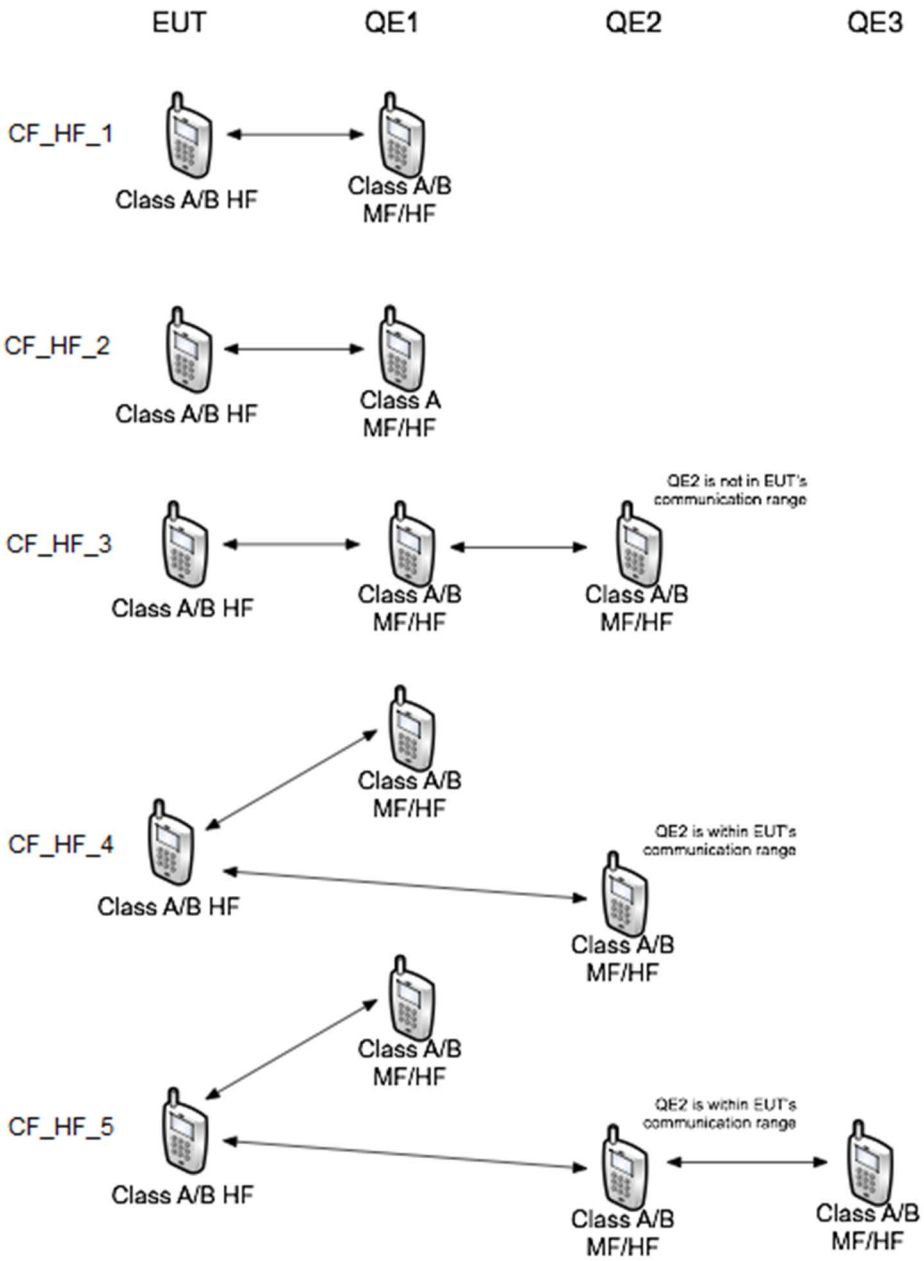


Figure 2: Configurations for MF EUT



NOTE: HF eqipment within range receives DSC messages on every frequency band during interoperabilitytesting, which is not always the case in real-life scenarios.

Figure 3: Configurations for HF EUT

5 Test Suite Structure (TSS)

The following table shows the Test Suite Structure contained in the present document. Each Test Sub-Group may contain more than one test.

Test Group	**Test Sub-Group (sub-group ID)**
VHF	
	Individual Calls (IC)
	Group Calls (GC)
	All Ships Calls (ASC)
	Sending Distress Alerts (SDA)
	Receiving Distress Alerts (RDA)
	Sending Distress Relays and Acknowledgements (SDRA)
	Other Calls (OC)
	Multiple automated procedures and parallel event handling (MAP)
MF/HF	
	Individual Calls (IC)
	Group Calls (GC)
	Geographic Area Calls (GAC)
	Sending Distress Alerts (SDA)
	Receiving Distress Alerts (RDA)
	Sending Distress Relays and Acknowledgements (SDRA)
	Other Calls (OC)
	Multiple automated procedures and parallel event handling (MAP)
Interface and other functions (IF)	
	General test (GEN)
	Alarms in standby mode (ASM)
	Alarms when busy (AWB)
	Standby mode interface functions (SMIF)
	Timeout interface functions (TIF)

Each test description is described through a tabular format conforming to the following convention:

Interoperability Test Description			
Identifier:	A unique identifier. The test description identifiers are conforming to the TD_DSC_<GR>_<SGR>_<SN> naming convention, where: <GR> is the Test Group ID (VHF/MFHF) <SGR> is the Test Sub-Group ID <SN> is the sequential number within the test sub-group		
Summary:	Short description of the test objective		
Configuration:	The relevant test configuration, referencing the test set configurations shown in figure 1		
References:	The reference indicates the clauses of the base standard specifications in which the related interoperability requirement is expressed		
Pre-test conditions:	Defines in which initial state the test equipment has to be to apply the actual test description		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	The description of the individual condition to verify or action to perform	Yes/No criteria of the outcome of this verification step (if applicable)	Yes/No criteria of the outcome of this verification step (if applicable)
2	…		
Final verdict:			

6 Test Descriptions (TD) VHF radios

6.1 Individual Calls

Interoperability Test Description			
Identifier:	TD_DSC_VHF_IC_0001		
Summary:	'Sending Individual call - Routine'		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on CH:16 QE1 programmed with an individual MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Individual - Routine'		
2	Enter/select MMSI of QE1		
3	Verify that menu proposes an Inter-ship Channel	Yes	No
4	Verify if the proposed channel can be changed	Yes	No
5	Cause EUT to send the individual call to QE1		
6	Verify that QE1 receives the call	Yes	No
7	Verify that EUT is still on CH:16	Yes	No
8	Cause QE1 to send ACK to EUT		
9	Verify that EUT switches to the selected channel in step 4	Yes	No
10	Verify voice communication on this channel	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_IC_0002		
Summary:	'Sending Individual call with NACK - Routine'		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on CH:16 QE1 programmed with an individual MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Individual - Routine'		
2	Enter/select MMSI of QE1		
3	Verify that menu proposes an Intership Channel	Yes	No
4	Verify if the proposed channel can be changed	Yes	No
5	Cause EUT to send the individual call to QE1		
6	Verify that QE1 receives the call	Yes	No
7	Verify that EUT is still on CH:16	Yes	No
8	Cause QE1 to send NACK to EUT		
9	Verify that EUT does not switch to the selected channel in step 4	Yes	No
10	Verify that EUT indicates 'call failed' or similar	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_IC_0003		
Summary:	'Sending Individual call to a coast station - Routine'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on CH:16 QE1 programmed with a Coast Station MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Individual - Routine'		
2	Enter/select MMSI of QE1		
3	Verify that menu does not propose a working channel	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_IC_0004		
Summary:	'Sending Individual call - Urgency'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on CH:16		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Individual - Urgency'		
2	Enter/select MMSI of QE1		
3	Set the proposed channel to CH:72		
4	Cause EUT to send the individual call to QE1		
5	Verify that QE1 receives the call and displays the proposed channel	Yes	No
6	Verify that QE1 sounds the Urgency alarm	Yes	No
7	Verify that QE1 displays the MMSI of QE1	Yes	No
8	Verify that EUT is still on CH:16	Yes	No
9	Cause QE1 to send ACK to QE1		
10	Verify that EUT switches to CH:72	Yes	No
11	Verify voice communication on this channel	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_IC_0005		
Summary:	'Sending Individual call with NACK - Urgency'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on CH:16		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Individual - Urgency'		
2	Enter/select MMSI of QE1		
3	Set the proposed channel to CH:72		
4	Cause EUT to send the individual call to QE1		
5	Verify that QE1 receives the call and displays the proposed channel	Yes	No
6	Verify that QE1 sounds the Urgency alarm	Yes	No
7	Verify that QE1 displays the MMSI of QE1	Yes	No
8	Verify that EUT is still on CH:16	Yes	No
9	Cause QE1 to send NACK to QE1		
10	Verify that EUT stays on CH:16	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_IC_0006		
Summary:	'Sending Individual call - Safety'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on CH:16		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Individual - Safety'		
2	Enter/select MMSI of QE1		
3	Set the proposed channel to CH:72		
4	Cause EUT to send the individual call to QE1		
5	Verify that QE1 receives the call and displays the proposed channel	Yes	No
6	Verify that QE1 sounds the Safety alarm	Yes	No
7	Verify that QE1 displays the MMSI of QE1	Yes	No
8	Verify that EUT is still on CH:16	Yes	No
9	Cause QE1 to send ACK to QE1		
10	Verify that EUT switches to CH:72	Yes	No
11	Verify voice communication on this channel	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_IC_0007		
Summary:	'Sending Individual call with NACK - Safety'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on CH:16		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Individual - Safety'		
2	Enter/select MMSI of QE1		
3	Set the proposed channel to CH:72		
4	Cause EUT to send the individual call to QE1		
5	Verify that QE1 receives the call and displays the proposed channel	Yes	No
6	Verify that QE1 sounds the Safety alarm	Yes	No
7	Verify that QE1 displays the MMSI of QE1	Yes	No
8	Verify that EUT is still on CH:16	Yes	No
9	Cause QE1 to send NACK to QE1		
10	Verify that EUT stays on CH:16	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_IC_0008		
Summary:	'Receiving Individual call - Routine'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on CH:16 EUT programmed with an individual MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Individual - Routine'		
2	Enter/select MMSI of EUT		
3	Set the proposed channel to CH:72		
4	Cause QE1 to send the individual call to EUT		
5	Verify that EUT receives the call and displays the proposed channel	Yes	No
6	Verify that EUT displays the MMSI of QE1	Yes	No
7	Verify that EUT is still on CH:16	Yes	No
8	Cause EUT to send ACK to QE1		
9	Verify that EUT switches to CH:72	Yes	No
10	Verify voice communication on this channel	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_IC_0009		
Summary:	'Receiving Individual call with NACK - Routine'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on CH:16 EUT programmed with an individual MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Individual - Routine'		
2	Enter/select MMSI of EUT		
3	Set the proposed channel to CH:72		
4	Cause QE1 to send the individual call to EUT		
5	Verify that EUT receives the call and displays the proposed channel	Yes	No
6	Verify that EUT displays the MMSI of QE1	Yes	No
7	Verify that EUT is still on CH:16	Yes	No
8	Cause EUT to send NACK to QE1		
9	Verify that EUT is still on CH:16	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_IC_0010		
Summary:	'Receiving Individual call when busy - Routine'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:	QE1 and EUT in individual call on CH:72 QE2 programmed with an individual MMSI of EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE2 select 'Call' then select 'Individual - Routine'		
2	Enter/select MMSI of EUT		
3	Cause QE2 to send the individual call to EUT		
4	Verify that EUT sounds a self-terminating alarm	Yes	No
5	Verify that EUT is still on CH:72	Yes	No
6	Cause EUT to terminate the individual call		
7	Verify that EUT displays that calls are on hold	Yes	No
8	On EUT enter the received call log and verify that the call from QE2 is logged	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_IC_0011		
Summary:	'Receiving Individual call - Urgency'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on CH:16 EUT programmed with an individual MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Individual - Urgency'		
2	Enter/select MMSI of EUT		
3	Set the proposed channel to CH:72		
4	Cause QE1 to send the individual call to EUT		
5	Verify that EUT receives the call and displays the proposed channel	Yes	No
6	Verify that EUT sounds the Urgency alarm	Yes	No
7	Verify that EUT displays the MMSI of QE1	Yes	No
8	Verify that EUT is still on CH:16	Yes	No
9	Cause EUT to send ACK to QE1		
10	Verify that EUT switches to CH:72	Yes	No
11	Verify voice communication on this channel	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_IC_0012		
Summary:	'Receiving Individual call with NACK - Urgency'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on CH:16 EUT programmed with an individual MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Individual - Urgency'		
2	Enter/select MMSI of EUT		
3	Set the proposed channel to CH:72		
4	Cause QE1 to send the individual call to EUT		
5	Verify that EUT receives the call and displays the proposed channel	Yes	No
6	Verify that EUT sounds the Urgency alarm	Yes	No
7	Verify that EUT displays the MMSI of QE1	Yes	No
8	Verify that EUT is still on CH:16	Yes	No
9	Cause EUT to send NACK to QE1		
10	Verify that EUT returns to standby on CH:16	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_IC_0013		
Summary:	'Receiving Individual call - Safety'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on CH:16 EUT programmed with an individual MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Individual - Safety'		
2	Enter/select MMSI of EUT		
3	Set the proposed channel to CH:72		
4	Cause QE1 to send the individual call to EUT		
5	Verify that EUT receives the call, sounds the Safety alarm and displays the proposed channel	Yes	No
6	Verify that EUT displays the MMSI of QE1	Yes	No
7	Verify that EUT is still on CH:16	Yes	No
8	Cause EUT to send ACK to QE1		
9	Verify that EUT switches to CH:72	Yes	No
10	Verify voice communication on this channel	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_IC_0014		
Summary:	'Receiving Individual call with NACK - Safety'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on CH:16 EUT programmed with an individual MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Individual - Safety'		
2	Enter/select MMSI of EUT		
3	Set the proposed channel to CH:72		
4	Cause QE1 to send the individual call to EUT		
5	Verify that EUT receives the call and displays the proposed channel	Yes	No
6	Verify that EUT sounds the Safety alarm	Yes	No
7	Verify that EUT displays the MMSI of QE1	Yes	No
8	Verify that EUT is still on CH:16	Yes	No
9	Cause EUT to send NACK to QE1		
10	Verify that EUT returns to standby on CH:16	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_IC_0015		
Summary:	'Sending Individual call on a Distress channel'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on CH:16 QE1 programmed with an individual MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Individual - Routine'		
2	Enter/select MMSI of QE1		
3	Verify that menu proposes an Inter-ship Channel	Yes	No
4	Enter a distress channel as working channel		
5	Cause EUT to send the individual call to QE1		
6	Verify that EUT does not send the call and indicates a channel selection error	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_IC_0016		
Summary:	'Receiving Individual data call - Routine'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on CH:16 EUT programmed with an individual MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Individual data'		
2	Enter/select MMSI of EUT		
3	Set the proposed channel to CH:72		
4	Cause QE1 to send the individual call to EUT		
5	Verify that EUT receives the call and displays the proposed channel	Yes	No
6	Verify that EUT displays the MMSI of QE1	Yes	No
7	Verify that EUT is still on CH:16	Yes	No
8	Cause EUT to send ACK to QE1		
9	Verify that EUT switches to CH:72	Yes	No
10	Verify the data exchange on this channel	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_IC_0017		
Summary:	'Sending Individual data call - Routine'		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on CH:16 QE1 programmed with an individual MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Individual data'		
2	Enter/select MMSI of QE1		
3	Verify that menu proposes an Inter-ship Channel	Yes	No
4	Verify if the proposed channel can be changed	Yes	No
5	Cause EUT to send the individual call to QE1		
6	Verify that QE1 receives the call	Yes	No
7	Verify that EUT is still on CH:16	Yes	No
8	Cause QE1 to send ACK to EUT		
9	Verify that EUT switches to the selected channel in step 4	Yes	No
10	Verify the data exchange on this channel	Yes	No
Final verdict:			

6.2 Group Calls

Interoperability Test Description			
Identifier:	TD_DSC_VHF_GC_0001		
Summary:	'Sending group call - Routine'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.6.1		
Pre-test conditions:	QE1 and EUT in standby on CH:16 QE1 programmed with a group MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Group'		
2	Enter/select group MMSI of QE1		
3	Verify that menu proposes an Inter-ship Channel	Yes	No
4	Verify if the proposed channel can be changed	Yes	No
5	Cause EUT to send the group call to QE1		
6	Verify that QE1 receives the call	Yes	No
7	Verify that EUT switches to the selected channel in step 4	Yes	No
8	Verify voice communication on this channel	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_GC_0002		
Summary:	'Receiving group call - Routine'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.7.1		
Pre-test conditions:	QE1 and EUT in standby on CH:16 EUT programmed with a group MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Group'		
2	Enter/select group MMSI of EUT		
3	Set the proposed channel to CH:72		
4	Cause QE1 to send the group call to EUT		
5	Verify that EUT receives the call and displays the proposed channel	Yes	No
6	Verify that EUT displays the MMSI of QE1	Yes	No
7	Verify that EUT switches to CH:72	Yes	No
8	Verify voice communication on this channel	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_GC_0003		
Summary:	'Receiving Group call when busy - Routine'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.7.1		
Pre-test conditions:	QE1 and EUT in group call on CH:72 QE2 programmed with a group MMSI of EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE2 select 'Call' then select 'Group'		
2	Enter/select group MMSI of EUT		
3	Cause QE2 to send the group call to EUT		
4	Verify that EUT sounds a self-terminating alarm	Yes	No
5	Verify that EUT is still on CH:72	Yes	No
6	Cause EUT to terminate the group call		
7	Verify that EUT displays that calls are on hold	Yes	No
8	On EUT enter the received call log and verify that the call from QE2 is logged	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_GC_0004		
Summary:	'Sending Group call on a Distress channel'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.6.1		
Pre-test conditions:	QE1 and EUT in standby on CH:16 QE1 programmed with a group MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Group - Routine'		
2	Enter/select MMSI of QE1		
3	Verify that menu proposes an Inter-ship Channel	Yes	No
4	Enter a distress channel as working channel		
5	Cause EUT to send the group call to QE1		
6	Verify that EUT does not send the call and indicates a channel selection error	Yes	No
Final verdict:			

6.3 All Ships Calls

Interoperability Test Description			
Identifier:	TD_DSC_VHF_ASC_0001		
Summary:	'Sending All Ships call - Safety'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'All Ships - Safety'		
2	Verify that the proposed channel is CH:16	Yes	No
3	Change the proposed channel to CH:06		
4	Cause EUT to send the call		
5	Verify that QE1 receives the call and sounds the Safety alarm	Yes	No
6	Verify that QE1 displays the MMSI of the EUT	Yes	No
7	Verify the voice communication on CH:06	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_ASC_0002		
Summary:	'Sending All Ships call - Urgency'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'All Ships - Urgency'		
2	Verify that the proposed channel is CH:16	Yes	No
3	Change the proposed channel to CH:06		
4	Cause EUT to send the call		
5	Verify that QE1 receives the call and sounds the Urgency alarm	Yes	No
6	Verify that QE1 displays the MMSI of the EUT	Yes	No
7	Verify the voice communication on CH:06	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_ASC_0003		
Summary:	'Receiving All Ships call - Urgency'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'All Ships - Urgency'		
2	Change the proposed channel to CH:06		
3	Cause QE1 to send the call		
4	Verify that EUT receives the call and sounds the Urgency alarm	Yes	No
5	Verify that EUT displays the MMSI of QE1	Yes	No
6	Verify the voice communication on CH:06	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_ASC_0004		
Summary:	'Receiving All Ships call - Safety'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'All Ships - Safety'		
2	Change the proposed channel to CH:06		
3	Cause QE1 to send the call		
4	Verify that EUT receives the call and sounds the Safety alarm	Yes	No
5	Verify that EUT displays the MMSI of QE1	Yes	No
6	Verify the voice communication on CH:06	Yes	No
Final verdict:			

6.4 Sending Distress Alerts

6.4.0 General Operation

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0001		
Summary:	'Sending distress alert - stop before countdown'		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clause 6.4.4		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT perform action 1 for sending distress alerts		
2	On EUT perform action 2 for sending distress alerts		
3	Verify that action 1 and action 2 are different	Yes	No
4	Verify that EUT displays a countdown to sending	Yes	No
5	Verify that EUT sounds a countdown alarm	Yes	No
6	Verify the EUT gives a visible alarm	Yes	No
7	Stop action 2 (step 2) before countdown expires		
8	Verify that QE1 does not receive a distress alert	Yes	No
9	Verify that EUT returns to standby	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0002		
Summary:	'Sending distress alert - undesignated alert content'		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clause 6.4.4		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT perform action 1 for sending distress alerts		
2	On EUT perform action 2 for sending distress alerts		
3	Verify that action 1 and action 2 are different	Yes	No
4	Verify that EUT displays a countdown to sending	Yes	No
5	Verify that EUT sounds a countdown alarm	Yes	No
6	Verify the EUT gives a visible alarm	Yes	No
7	Continue action 2 (step 2) until countdown expires		
8	Verify that QE1 receives the distress alert	Yes	No
9	Verify that QE1 displays the MMSI of EUT	Yes	No
10	Verify that QE1 displays nature of distress = undesignated	Yes	No
11	Verify that QE1 displays the position and time from EUT	Yes	No
12	Verify the voice communication between EUT and QE1 on CH:16	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0003		
Summary:	'Validation of displaying the correct alert attempt sub-stage information'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4, 6.4.10 and 6.5.3		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT push the Distress Button		
2	Release the distress button after the countdown is complete		
3	Verify that EUT briefly displays 'transmitting' sub-stage when the countdown has completed	Yes	No
4	Verify that EUT displays 'waiting for acknowledgement' sub-stage and displays the elapsed time since this sub-stage started	Yes	No
5	On QE1 acknowledge the EUT's alarm		
6	Verify that EUT displays 'acknowledged' sub-stage and displays the elapsed time since this sub-stage started	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0004		
Summary:	'Validation that the required items of the automated procedure are being properly displayed'		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.2 and 6.4.3		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT push the Distress Button		
2	Release the distress button after the countdown is complete		
3	Verify that the EUT indicates that it is in transmitting state during distress alert transmission	Yes	No
4	Verify that the remaining time to the next automated sending of the distress alert attempt is displayed on the EUT screen	Yes	No
5	Verify that the EUT sets the time to the next automated alert sending to between 3,5 minutes and 4,5 minutes, and check that this interval is different each time	Yes	No
6	Verify that the EUT still indicates that it is waiting for an acknowledgement	Yes	No
7	Verify that the option to pause the countdown to the next distress alert attempt is available on the EUT	Yes	No
8	Verify that the option to cancel the distress alert attempt is available on the EUT	Yes	No
9	Verify that the option to resend the distress alert attempt is available on the EUT	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0005		
Summary:	'Validation that a paused automated procedure can be resumed'		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.2 and 6.4.3		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT push the Distress Button		
2	Release the distress button after the countdown is complete		
3	Wait until the EUT is in a countdown to the next distress alert attempt and pause the countdown		
4	Verify that the option to resume the countdown to the next distress alert attempt is available on the EUT	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0006		
Summary:	'Validation of the alert cancel procedure - warning'		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.2 and 6.4.3		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT push the Distress Button		
2	Release the distress button after the countdown is complete		
3	Wait until the EUT is in a countdown to the next distress alert transmission attempt and cancel the distress procedure		
4	Verify that the EUT displays a warning about the initiated cancel procedure, and offers the possibility of exiting the cancel procedure	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0007		
Summary:	'Validation of the alert cancel procedure'		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.2 and 6.4.3		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT push the Distress Button		
2	Release the distress button after the countdown is complete		
3	Wait until the EUT is in a countdown to the next distress alert transmission attempt and cancel the distress alert		
4	When the EUT displays a warning about the initiated cancel procedure confirm the cancellation		
5	Verify that QE1 receives the distress cancel	Yes	No
6	Verify that EUT requests voice cancellation and displays suitable text to be read	Yes	No
7	Verify that it is not possible to exit the procedure until the voice cancellation been manually processed	Yes	No
8	Verify that when all the voice call has been processed that the procedure goes to 'cancelled' state and can be exited	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0008		
Summary:	'Validation that the required items of the alert acknowledgement are being properly displayed'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clauses 6.4.2, 6.4.3 and 6.4.12		
Pre-test conditions:	The EUT having sent a distress alert		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 acknowledge the EUT's distress alert		
2	Verify that the EUT displays the means to silence the alarm	Yes	No
3	Verify that the EUT indicates the MMSI of QE1	Yes	No
4	Verify that the operator can speak to QE1 from the EUT	Yes	No
5	Verify that the operator can speak to the EUT from QE1	Yes	No
6	Verify that the EUT no longer offers the option to resend the distress alert attempt	Yes	No
7	Verify that the EUT no longer offers the option to cancel the distress alert attempt	Yes	No
8	Verify that the EUT offers the option to terminate the sending distress automated procedure	Yes	No
9	Verify that the EUT offers the option to put the sending distress automated procedure on hold	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0009		
Summary:	'Validation that the automated alert resending procedure stops after acknowledgement'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clauses 6.4.2 and 6.4.3		
Pre-test conditions:	The EUT having transmitted a first distress alert attempt		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 acknowledge the EUT's distress alert		
2	Verify that QE1 does not receive from the EUT any further distress alert transmission attempts	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0010		
Summary:	'Validation that repeated distress alert acknowledgements'		
Configuration:	CF_VHF_6		
References:	ETSI EN 300 338-2 [1], clauses 6.4.7 and 6.4.8		
Pre-test conditions:	The EUT having transmitted a first distress alert attempt		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 acknowledge the EUT's distress alert		
2	Verify that the EUT sounds the manually terminated acknowledgement alarm	Yes	No
3	On QE2 acknowledge the EUT's distress alert		
4	Verify that the EUT sounds only the self-terminating alarm	Yes	No
Final verdict:			

6.4.1 Distress alert sending priority

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0011		
Summary:	'Distress alert during DSC call preparation'		
Configuration:	CF_VHF_5		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.9.2.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On the EUT select the option to send an individual DSC message of priority routine and enter/select the MMSI of QE2		
2	Before the DSC message is actually sent, start the distress alert attempt by using the dedicated distress button		
3	Verify that QE1 receives the EUT's distress alert	Yes	No
4	Verify that QE1 receives distress information with default values and the indicated alert sender is the EUT	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0012		
Summary:	'Distress alert after DSC call initiation'		
Configuration:	CF_VHF_5		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.9.2.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On the EUT select the option to send an individual DSC message of priority routine and enter/select the MMSI of QE2		
2	After the non-distress DSC automated sending procedure has started on EUT, start the distress alert attempt by using the dedicated distress button		
3	Verify that QE1 receives the EUT's distress alert	Yes	No
4	Verify that QE1 receives distress information with default values and the indicated alert sender is the EUT	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0013		
Summary:	'Validation that repeated pressing of distress button is appropriately handled'		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clause 6.4.4		
Pre-test conditions:	EUT in standby		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT push the Distress Button		
2	Release the distress button of the EUT after the countdown is complete		
3	And then push again the Distress Button		
4	Verify that on the EUT this action of repeated pushing of the distress button is ignored or activates the resend procedure with a new countdown	Yes	No
5	Verify that the ongoing sending distress alert automated procedure on the EUT is uninterrupted.	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0014		
Summary:	'Distress alert after reception of a preceding distress alert'		
Configuration:	CF_VHF_5		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.9.2.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE2 push the Distress Button		
2	Release the distress button after the countdown is complete		
3	After the DSC alert has been received on EUT, start the distress alert attempt by using the dedicated distress button		
4	Verify that QE1 receives the EUT's distress alert	Yes	No
5	Verify that QE1 receives distress information with default values and the indicated alert sender is the EUT	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0015		
Summary:	'Distress alert after DSC call reception'		
Configuration:	CF_VHF_5		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.9.2.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On the QE2 select the option to send an individual DSC message of priority routine and enter/select the MMSI of the EUT		
2	After the non-distress DSC automated reception procedure has started on EUT, start the distress alert attempt by using the dedicated distress button		
3	Verify that QE1 receives the EUT's distress alert	Yes	No
4	Verify that QE1 receives distress information with default values and the indicated alert sender is the EUT	Yes	No
Final verdict:			

6.4.2 Ongoing distress alert priority

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0016		
Summary:	'Validation of ongoing distress alert priority for distress alert relay reception'		
Configuration:	CF_VHF_4		
References:	ETSI EN 300 338-2 [1], clause 6.4.7		
Pre-test conditions:	EUT having sent a distress alert and being in 'waiting for acknowledgement' sub-stage		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE2 press the distress alert button, and have QE1 relay the received distress alert to the EUT		
2	Verify that the EUT remains in 'waiting for acknowledgement' sub-stage	Yes	No
3	Verify that reception of the above DSC event does not trigger an alarm in the EUT	Yes	No
4	Verify that the EUT stores the above DSC event record in its log	Yes	No
5	On QE1 acknowledge the EUT's distress alert		
6	On QE2 resend the distress alert, and have QE1 relay the received distress alert to the EUT		
7	Verify that the EUT remains in 'alert acknowledged' sub-stage	Yes	No
8	Verify that reception of the above DSC event does trigger an alarm in the EUT	Yes	No
9	Verify that reception of the above DSC event initiates a new procedure on hold	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0017		
Summary:	'Validation of ongoing distress alert priority for All ships RT call Safety'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.4.7		
Pre-test conditions:	EUT having sent a distress alert and being in 'waiting for acknowledgement' sub-stage		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 initiate an 'All ships RT call Safety' procedure		
2	Verify that the EUT remains in 'waiting for acknowledgement' sub-stage	Yes	No
3	Verify that reception of the above DSC event does not trigger an alarm in the EUT	Yes	No
4	Verify that the EUT stores the above DSC event record in its log	Yes	No
5	On QE1 acknowledge the EUT's distress alert		
6	On QE1 initiate a new 'All ships RT call Safety' procedure		
7	Verify that the EUT remains in 'alert acknowledged' sub-stage	Yes	No
8	Verify that reception of the above DSC event does trigger an alarm in the EUT	Yes	No
9	Verify that reception of the above DSC event initiates a new procedure on hold	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0018		
Summary:	'Validation of ongoing distress alert priority for All ships RT call Urgency'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.4.7		
Pre-test conditions:	EUT having sent a distress alert and being in 'waiting for acknowledgement' sub-stage		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 initiate an 'All ships RT call Urgency' procedure		
2	Verify that the EUT remains in 'waiting for acknowledgement' sub-stage	Yes	No
3	Verify that reception of the above DSC event does not trigger an alarm in the EUT	Yes	No
4	Verify that the EUT stores the above DSC event record in its log	Yes	No
5	On QE1 acknowledge the EUT's distress alert		
6	On QE1 initiate a new 'All ships RT call Urgency' procedure		
7	Verify that the EUT remains in 'alert acknowledged' sub-stage	Yes	No
8	Verify that reception of the above DSC event does trigger an alarm in the EUT	Yes	No
9	Verify that reception of the above DSC event initiates a new procedure on hold	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0019		
Summary:	'Validation of ongoing distress alert priority for Individual RT call Safety'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.4.7		
Pre-test conditions:	EUT having sent a distress alert and being in 'waiting for acknowledgement' sub-stage		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 initiate an 'Individual RT call Safety' procedure addressed to the EUT		
2	Verify that the EUT remains in 'waiting for acknowledgement' sub-stage	Yes	No
3	Verify that reception of the above DSC event does not trigger an alarm in the EUT	Yes	No
4	Verify that the EUT stores the above DSC event record in its log	Yes	No
5	On QE1 acknowledge the EUT's distress alert		
6	On QE1 initiate a new 'Individual RT call Safety' procedure addressed to the EUT		
7	Verify that the EUT remains in 'alert acknowledged' sub-stage	Yes	No
8	Verify that reception of the above DSC event does trigger an alarm in the EUT	Yes	No
9	Verify that reception of the above DSC event initiates a new procedure on hold	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0020		
Summary:	'Validation of ongoing distress alert priority for Individual RT call Urgency'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.4.7		
Pre-test conditions:	EUT having sent a distress alert and being in 'waiting for acknowledgement' sub-stage		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 initiate an 'Individual RT call Urgency' procedure addressed to the EUT		
2	Verify that the EUT remains in 'waiting for acknowledgement' sub-stage	Yes	No
3	Verify that reception of the above DSC event does not trigger an alarm in the EUT	Yes	No
4	Verify that the EUT stores the above DSC event record in its log	Yes	No
5	On QE1 acknowledge the EUT's distress alert		
6	On QE1 initiate a new 'Individual RT call Urgency' procedure addressed to the EUT		
7	Verify that the EUT remains in 'alert acknowledged' sub-stage	Yes	No
8	Verify that reception of the above DSC event does trigger an alarm in the EUT	Yes	No
9	Verify that reception of the above DSC event initiates a new procedure on hold	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0021		
Summary:	'Validation of ongoing distress alert priority for Routine Individual RT call'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.4.7		
Pre-test conditions:	EUT having sent a distress alert and being in 'waiting for acknowledgement' sub-stage		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 initiate a 'Routine RT call' procedure addressed to the EUT		
2	Verify that the EUT remains in 'waiting for acknowledgement' sub-stage	Yes	No
3	Verify that reception of the above DSC event does not trigger an alarm in the EUT	Yes	No
4	Verify that the EUT stores the above DSC event record in its log	Yes	No
5	On QE1 acknowledge the EUT's distress alert		
6	On QE1 initiate a new 'Routine RT call' procedure addressed to the EUT		
7	Verify that the EUT remains in 'alert acknowledged' sub-stage	Yes	No
8	Verify that reception of the above DSC event does trigger an alarm in the EUT	Yes	No
9	Verify that reception of the above DSC event initiates a new procedure on hold	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0022		
Summary:	'Validation of ongoing distress alert priority for a received other distress alert'		
Configuration:	CF_VHF_5		
References:	ETSI EN 300 338-2 [1], clause 6.4.7		
Pre-test conditions:	EUT having sent a distress alert and being in 'waiting for acknowledgement' sub-stage		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE2 press the distress alert button		
2	Verify that the EUT remains in 'waiting for acknowledgement' sub-stage	Yes	No
3	Verify that reception of the above DSC event does not trigger an alarm in the EUT	Yes	No
4	Verify that the EUT stores the above DSC event record in its log	Yes	No
5	On QE1 acknowledge the EUT's distress alert		
6	On QE2 press the distress alert button again		
7	Verify that the EUT remains in 'alert acknowledged' sub-stage	Yes	No
8	Verify that reception of the above DSC event does trigger an alarm in the EUT	Yes	No
9	Verify that reception of the above DSC event initiates a new procedure on hold	Yes	No
Final verdict:			

6.4.3 Manual termination after distress alert acknowledgement

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0023		
Summary:	'Validation of distress alert termination'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.4.13		
Pre-test conditions:	EUT having sent a distress alert and being in 'waiting for acknowledgement' sub-stage		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Verify that the EUT does not offer the option to terminate the current distress alert procedure	Yes	No
2	On QE1 acknowledge the EUT's distress alert		
3	Verify that the EUT offers the option to terminate the current distress alert procedure	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0024		
Summary:	'Validation of not automatically displaying logged DSC alert messages after current alert termination'		
Configuration:	CF_VHF_5		
References:	ETSI EN 300 338-2 [1], clause 6.4.13		
Pre-test conditions:	EUT having sent a distress alert and being in 'waiting for acknowledgement' sub-stage		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE2 push the Distress alert button		
2	On QE1 acknowledge the EUT's distress alert		
3	On EUT terminate the current distress alert		
4	Verify that the EUT does not automatically start displaying the new DSC alert message from memory	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0025		
Summary:	'Validation of selecting and sending Fire/Explosion nature of distress'		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.3 d)		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter distress alert set up menu on EUT		
2	Verify that the dedicated button for sending distress alerts is not used for accessing this menu	Yes	No
3	Select 'Fire/Explosion' nature of distress, and cause EUT to send the alert		
4	Verify that QE1 receives the nature of distress alert 'Fire/Explosion'	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0026		
Summary:	'Validation of selecting and sending Flooding nature of distress'		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.3 d)		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter distress alert set up menu on EUT		
2	Verify that the dedicated button for sending distress alerts is not used for accessing this menu	Yes	No
3	Select 'Flooding' nature of distress, and cause EUT to send the alert		
4	Verify that QE1 receives the nature of distress alert 'Flooding'	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0027		
Summary:	'Validation of selecting and sending Collision nature of distress'		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.3 d)		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter distress alert set up menu on EUT		
2	Verify that the dedicated button for sending distress alerts is not used for accessing this menu	Yes	No
3	Select 'Collision' nature of distress, and cause EUT to send the alert		
4	Verify that QE1 receives the nature of distress alert 'Collision'	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0028		
Summary:	'Validation of selecting and sending Grounding nature of distress'		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.3 d)		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter distress alert set up menu on EUT		
2	Verify that the dedicated button for sending distress alerts is not used for accessing this menu	Yes	No
3	Select 'Grounding' nature of distress, and cause EUT to send the alert		
4	Verify that QE1 receives the nature of distress alert 'Grounding'	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0029		
Summary:	'Validation of selecting and sending Listing/Capsizing nature of distress'		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.3 d)		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter distress alert set up menu on EUT		
2	Verify that the dedicated button for sending distress alerts is not used for accessing this menu	Yes	No
3	Select 'Listing/Capsizing' nature of distress, and cause EUT to send the alert		
4	Verify that QE1 receives the nature of distress alert 'Listing/Capsizing'	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0030		
Summary:	'Validation of selecting and sending Sinking nature of distress'		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.3 d)		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter distress alert set up menu on EUT		
2	Verify that the dedicated button for sending distress alerts is not used for accessing this menu	Yes	No
3	Select 'Sinking' nature of distress, and cause EUT to send the alert		
4	Verify that QE1 receives the nature of distress alert 'Sinking'	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0031		
Summary:	'Validation of selecting and sending Disabled and Adrift nature of distress'		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.3 d)		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter distress alert set up menu on EUT		
2	Verify that the dedicated button for sending distress alerts is not used for accessing this menu	Yes	No
3	Select 'Disabled and Adrift' nature of distress, and cause EUT to send the alert		
4	Verify that QE1 receives the nature of distress alert 'Disabled and Adrift'	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0032		
Summary:	'Validation of selecting and sending Abandoning ship nature of distress'		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.3 d)		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter distress alert set up menu on EUT		
2	Verify that the dedicated button for sending distress alerts is not used for accessing this menu	Yes	No
3	Select 'Abandoning ship' nature of distress, and cause EUT to send the alert		
4	Verify that QE1 receives the nature of distress alert 'Abandoning ship'	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0033		
Summary:	'Validation of selecting and sending Piracy/Armed attack nature of distress'		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.3 d)		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter distress alert set up menu on EUT		
2	Verify that the dedicated button for sending distress alerts is not used for accessing this menu	Yes	No
3	Select 'Piracy/Armed attack' nature of distress, and cause EUT to send the alert		
4	Verify that QE1 receives the nature of distress alert 'Piracy/Armed attack'	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0034		
Summary:	'Validation of selecting and sending Man overboard nature of distress'		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.3 d)		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter distress alert set up menu on EUT		
2	Verify that the dedicated button for sending distress alerts is not used for accessing this menu	Yes	No
3	Select 'Man overboard' nature of distress, and cause EUT to send the alert		
4	Verify that QE1 receives the nature of distress alert 'Man overboard'	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0035		
Summary:	'Validation of unavailability of EPIRB nature of distress'		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.3 d)		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter distress alert set up menu on EUT		
2	Verify that 'EPIRB' nature of distress cannot be selected on the EUT	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDA_0036		
Summary:	Updating of position and time during distress alert resending		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clause 6.4.6		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On the EUT push the Distress Button and send the alert. Wait that the distress alert attempt is being resent several times, and change the position of the EUT between retransmissions		
2	Verify that QE1 receives subsequent distress alert messages with the updated UTC time information	Yes	No
3	Verify that QE1 receives subsequent distress alert messages with the updated geographic position information	Yes	No
Final verdict:			

6.5 Receiving Distress Alerts

Interoperability Test Description			
Identifier:	TD_DSC_VHF_RDA_0001		
Summary:	Basic test of receiving distress automated procedure		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clause 6.5		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 push the Distress Button		
2	Release the distress button after the countdown is complete		
3	Verify that EUT correctly displays the UTC time information of the above distress alert message	Yes	No
4	Verify that the EUT correctly displays the geographic position information of QE1 at the time of above distress alert message, including fractional minutes or seconds of latitude and longitude	Yes	No
5	Verify that the EUT correctly displays the sender MMSI, intended recipients, and indicates that the DSC message type is 'distress alert'	Yes	No
6	Verify that the EUT selects the default channel 16 (VHF) frequency of subsequent communication	Yes	No
7	Verify that the EUT displays at top level the elapsed time since receiving the first alert	Yes	No
8	Verify that the option to send a distress relay is available on the EUT	Yes	No
9	Verify that the option to send a distress alert acknowledgement is available on the EUT	Yes	No
10	Verify that the option to send a distress relay acknowledgement is NOT available on the EUT	Yes	No
11	Verify that the option to terminate the procedure is available on the EUT	Yes	No
12	Verify that the EUT correctly displays at top level the current stage of the distress alert procedure - i.e. waiting for acknowledgement	Yes	No
13	Verify that the EUT offers the option to display information about the history of received DSC messages pertinent to the current distress alert procedure	Yes	No
14	Verify that the operator can speak to QE1 from the EUT	Yes	No
15	Verify that the operator can speak to the EUT from QE1	Yes	No
16	Verify that the EUT offers the option to terminate the current distress alert procedure	Yes	No
17	On the EUT select the option to terminate the current distress alert procedure		
18	Verify that the EUT gives a warning that the current distress alert procedure is being terminated	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_RDA_0002		
Summary:	Test of receiving distress automated procedure triggered by all ships relay		
Configuration:	CF_VHF_4		
References:	ETSI EN 300 338-2 [1], clause 6.5		
Pre-test conditions:	=QE2 having sent a distress alert message and QE1 having received the call		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Make QE1 relay the received distress alert to all ships		
2	Verify that EUT correctly displays the UTC time information of the relayed distress alert message	Yes	No
3	Verify that the EUT correctly displays the geographic position information of QE2 at the time of above distress alert message, including fractional minutes or seconds of latitude and longitude	Yes	No
4	Verify that the EUT correctly displays the QE2's MMSI, intended recipients, and indicates that the DSC message type is 'distress alert'	Yes	No
5	Verify that the EUT selects the default channel 16 (VHF) frequency of subsequent communication	Yes	No
6	Verify that the EUT displays at top level the elapsed time since receiving the first alert	Yes	No
7	Verify that the option to send a distress relay acknowledgement is available on the EUT	Yes	No
8	Verify that the option to terminate the procedure is available on the EUT	Yes	No
9	Verify that the EUT correctly displays at top level the current stage of the distress alert procedure - i.e. waiting for acknowledgement	Yes	No
10	Verify that the EUT offers the option to display information about the history of received DSC messages pertinent to the current distress alert procedure	Yes	No
11	Verify that the EUT offers the option to terminate the current distress alert procedure	Yes	No
12	On the EUT select the option to terminate the current distress alert procedure		
13	Verify that the EUT gives a warning that the current distress alert procedure is being terminated	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_RDA_0003		
Summary:	Test of receiving distress automated procedure triggered by individual relay		
Configuration:	CF_VHF_4		
References:	ETSI EN 300 338-2 [1], clause 6.5		
Pre-test conditions:	QE1 and EUT in standby, QE2 having sent a distress alert message		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Make QE1 relay the received distress alert to the EUT's MMSI		
2	Verify that EUT correctly displays the UTC time information of the relayed distress alert message	Yes	No
3	Verify that the EUT correctly displays the geographic position information of QE2 at the time of above distress alert message, including fractional minutes or seconds of latitude and longitude	Yes	No
4	Verify that the EUT correctly displays the QE2's MMSI, intended recipients, and indicates that the DSC message type is 'distress alert'	Yes	No
5	Verify that the EUT selects the default channel 16 (VHF) frequency of subsequent communication	Yes	No
6	Verify that the EUT displays at top level the elapsed time since receiving the first alert	Yes	No
7	Verify that the option to send a distress relay is NOT available on the EUT	Yes	No
8	Verify that the option to send a distress alert acknowledgement is NOT available on the EUT	Yes	No
9	Verify that the option to send a distress relay acknowledgement is available on the EUT	Yes	No
10	Verify that the option to terminate the procedure is available on the EUT	Yes	No
11	Verify that the EUT correctly displays at top level the current stage of the distress alert procedure - i.e. waiting for acknowledgement	Yes	No
12	Verify that the EUT offers the option to display information about the history of received DSC messages pertinent to the current distress alert procedure	Yes	No
13	Verify that the EUT offers the option to terminate the current distress alert procedure	Yes	No
14	On the EUT select the option to terminate the current distress alert procedure		
15	Verify that the EUT gives a warning that the current distress alert procedure is being terminated	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_RDA_0004		
Summary:	Testing the reception of self-acknowledged alarm		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.5.2 c)		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Send a distress alert message from QE1, and then self-acknowledge this alarm on QE1		
2	Verify that EUT is displaying the elapsed time since having received the acknowledgement, and at top level the procedure stage is displayed as 'Cancelled'	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_RDA_0005		
Summary:	Test of the display of updated distress call information		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.5.5 and 6.5.3 c)		
Pre-test conditions:	QE1 having sent a distress alert message		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Change the position of QE1 and resend the distress alert message		
2	Verify that EUT sounds a self-terminating alarm upon the reception of resent distress alert message	Yes	No
3	Verify that EUT displays the changed position in the distress information	Yes	No
4	Verify that the elapsed time since the distress receiving procedure started is not changed on the EUT	Yes	No
5	Verify that EUT displays the type of the latest received DSC message	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_RDA_0006		
Summary:	Timeout testing of distress automated procedure		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.5.3 and 6.5.10		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Set the no activity timeout of received distress DSC automated procedures to some value in the range [10 seconds to 10 minutes]		
2	Cause the TE to send a Distress alert		
3	Wait until the no activity timer defined in step 1 almost expires		
4	Verify that at least 10 seconds prior to automated termination a visual and aural warning is given by the EUT, indicating the nearing no activity timeout	Yes	No
5	Verify that the EUT provides the means to silence the above alarm	Yes	No
6	Verify that the EUT provides the means to stop the upcoming 'no activity termination' of the automated procedure	Yes	No
Final verdict:			

6.6 Receiving Distress Alert from MOB devices

6.6.1 Verifying UTC time

In all tests in clauses 6.6.2 and 6.6.3 where it is necessary to verify the time reported by a class-M device, it should be noted that this may differ from UTC time by several seconds depending on the number of leap seconds that have elapsed since the device was last used. Therefore time need be verified to the nearest minute only.

6.6.2 Open loop automated procedures

Interoperability Test Description			
Identifier:	TD_DSC_VHF_MOB_0001		
Summary:	Test of receiving first distress alert from MOB device (without GNSS position) starting in open loop, automated procedure		
Configuration:	CF_VHF_2		
References:	ETSI EN 300 338-2 [1], clause 6.5.12		
Pre-test conditions:	QE1 shall be able to start in open loop mode to perform this test (be marked DSC-MOB-O)		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Activate QE1 (trigger a MOB event)		
2	Wait until countdown is complete		
3	Verify that EUT receives a distress alert message of type man overboard without time or position	Yes	No
4	Verify that the EUT correctly displays QE1's MMSI and it is a MOB identity starting 972 in accordance with Recommendation ITU-R M.585-8 [2]	Yes	No
5	Verify that the EUT displays 'no information' for subsequent communication	Yes	No
6	Verify that the option to send a distress relay is available on the EUT	Yes	No
7	Verify that the option to send a distress alert acknowledgement is available on the EUT	Yes	No
8	Verify that the option to send a distress relay acknowledgement is NOT available on the EUT	Yes	No
9	Verify that the option to terminate the procedure is available on the EUT	Yes	No
10	Verify that the EUT offers the option to display information about the history of received DSC messages pertinent to the current distress alert procedure	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_MOB_0005		
Summary:	Test of receiving second and subsequent distress alert from MOB device (with GNSS position) automated procedure. Test of the display of updated distress call information from MOB		
Configuration:	CF_VHF_2		
References:	ETSI EN 300 338-2 [1], clause 6.5.12		
Pre-test conditions:	QE1 having sent a first distress alert message (open loop) and being able to obtain a GNSS fix, or QE1 having started in closed loop but after 12 minutes without being acknowledged changing to open loop mode) and being able to obtain a GNSS fix		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Change the position of QE1 and wait until it sends a further distress alert message		
2	Verify that EUT sounds a self-terminating alarm upon the reception of resent distress alert message	Yes	No
3	Verify that EUT displays the changed position in the distress information	Yes	No
4	Verify that the elapsed time since the distress receiving procedure started is not changed on the EUT, but updates normally	Yes	No
5	Verify that EUT displays the type of the latest received DSC message as man overboard	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_MOB_0004		
Summary:	Testing the reception of alarm self-cancel from MOB device		
Configuration:	CF_VHF_2		
References:	ETSI EN 300 338-2 [1], clause 6.5.12		
Pre-test conditions:	QE1 having sent at least one distress alert message (open loop)		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Deactivate QE1 (cancel the current MOB event)		
2	Verify that EUT is displaying the elapsed time since having received the acknowledgement, and at top level the procedure stage is displayed as 'Cancelled'	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_MOB_0001		
Summary:	Testing the sending of an acknowledgement to MOB device to terminate a man-overboard event		
Configuration:	CF_VHF_2		
References:	ETSI EN 300 338-2 [1], clause 6.5.12		
Pre-test conditions:	QE1 having sent at least one distress alert messages (open loop)		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On the EUT select the option to terminate the current distress alert procedure		
2	Verify that the EUT gives a warning that terminating the current distress alert procedure will deactivate the MOB device	Yes	No
3	On the EUT confirm the deactivation		
4	Verify that QE1 has received the acknowledgement and deactivated	Yes	No
5	Verify that the procedure has been terminated	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_MOB_0001		
Summary:	Test of receiving multiple MOB distress alerts from two MOB devices		
Configuration:	CF_VHF_8		
References:	ETSI EN 300 338-2 [1], clause 6.5.12		
Pre-test conditions:	QE1 & QE2 shall be able to start in open loop mode to perform this test (be marked DSC-MOB-O). Separate QE1 and QE2 so they will get different GNSS positions fixes		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Activate QE1 (trigger a MOB event)		
2	Wait until countdown is complete		
3	Verify that EUT receives a distress alert message of type man overboard without time or position	Yes	No
4	Verify that the EUT correctly displays QE1's MMSI and it is a MOB identity starting 972 in accordance with Recommendation ITU-R M.585-8 [2]	Yes	No
5	Wait until QE1 sends a second distress alert message		
6	Verify that EUT sounds a self-terminating alarm upon the reception of resent distress alert message	Yes	No
7	Verify that EUT displays the GNSS position in the distress information	Yes	No
8	Activate QE2 (trigger a second MOB event)		
9	Wait until countdown is complete		
10	Verify that EUT shows both man overboard events in a list	Yes	No
11	Verify that the position of QE2 is unknown whilst the position of QE1 is displayed and that the time since the first distress alert is displayed at the top level	Yes	No
12	Wait until QE1 and QE2 send further distress alert messages		
13	Verify that the position of both MOBs update in the list and that the correct position of each is shown	Yes	No
14	Verify that the EUT displays at top level the elapsed time since receiving the first alert from QE1and that the time since the first distress alert from QE1 and QE2 can be determined individually from the list	Yes	No
15	On the EUT select the option to terminate the current distress alert for QE1		
16	Verify that the EUT gives a warning that terminating the current distress alert procedure will deactivate the MOB device	Yes	No
17	On the EUT confirm the termination		
18	Verify that QE1 has received the acknowledgement and deactivated	Yes	No
19	Verify that the procedure is still active with QE1 removed from the list and QE2 still active	Yes	No
20	Wait until QE2 sends a further distress alert message		
21	Verify that the position of QE2 updates and that the correct position is shown	Yes	No
22	Verify that the EUT displays at top level the elapsed time since receiving the first alert from QE1 and that the time since the first distress alert from QE1 and QE2 can be determined individually from the list	Yes	No
23	On the EUT select the option to terminate the current distress alert for QE2		
24	Verify that the EUT gives a warning that terminating the current distress alert procedure will deactivate the MOB device	Yes	No
25	On the EUT confirm the termination		
26	Verify that QE2 has received the acknowledgement and deactivated	Yes	No
27	Verify that the procedure has been terminated	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_MOB_0006		
Summary:	Test of receiving MOB Distress alert after DSC call reception		
Configuration:	CF_VHF_7		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4, 6.5.12 and 6.9.2.1		
Pre-test conditions:	QE2 shall be able to start in open loop mode to perform this test (be marked DSC-MOB-O)		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On the QE1 select the option to send an individual DSC message of priority routine and enter/select the MMSI of the EUT		
2	After the non-distress DSC automated reception procedure has started on EUT, activate QE2 (trigger a MOB event)		
3	Wait until countdown is complete		
4	Verify that EUT receives a distress alert messageof type man overboard without time or position	Yes	No
Final verdict:			

6.6.3 Closed loop automated procedures

Interoperability Test Description			
Identifier:	TD_DSC_VHF_MOB_0002		
Summary:	Test of receiving first distress alert relay from MOB device (without GNSS position) starting in closed loop, automated procedure		
Configuration:	CF_VHF_2		
References:	ETSI EN 300 338-2 [1], clause 6.5.12		
Pre-test conditions:	QE1 shall be able to start in closed loop mode to perform this test (be marked DSC-MOB-C). Pre-program QE1 with the own-vessel MMSI of the EUT prior to testing		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Activate QE1 (trigger a MOB event)		
2	Wait until countdown is complete		
3	Verify that EUT receives a relayed distress alert messageof type man overboard without time or position	Yes	No
4	Verify that the EUT correctly displays QE1's MMSI and it is a MOB identity starting 972 in accordance with Recommendation ITU-R M.585-8 [2]	Yes	No
5	Verify that the EUT displays at top level the elapsed time since receiving the first alert	Yes	No
6	Verify that the option to send a distress relay is NOT available on the EUT	Yes	No
7	Verify that the option to send a distress alert acknowledgement is NOT available on the EUT	Yes	No
8	Verify that the option to send a distress relay acknowledgement is available on the EUT	Yes	No
9	Verify that the option to terminate the procedure is available on the EUT	Yes	No
10	Verify that the EUT offers the option to display information about the history of received DSC messages pertinent to the current distress alert procedure	Yes	No
11	Wait for QE1 to send a second distress alert relay message with a GNSS fix		
12	Verify that EUT displays the updated position in the distress information	Yes	No
13	Verify that the elapsed time since the distress receiving procedure started is not changed on the EUT, but updates normally	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_MOB_0002		
Summary:	Test of receiving distress alert relay from MOB device operating in closed loop to a group		
Configuration:	CF_VHF_2		
References:	ETSI EN 300 338-2 [1], clause 6.5.12		
Pre-test conditions:	QE1 shall be able to start in closed loop mode to perform this test (be marked DSC-MOB-C). Pre-program QE1 with the own-vessel MMSI of a group prior to testing. EUT programmed with the same group MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Activate QE1 (trigger a MOB event)		
2	Wait until countdown is complete		
3	Verify that EUT receives a relayed distress alert messageof type man overboard without time or position	Yes	No
4	Verify that the EUT correctly displays QE1's MMSI and it is a MOB identity starting 972 in accordance with Recommendation ITU-R M.585-8 [2]	Yes	No
5	Verify that the EUT displays at top level the elapsed time since receiving the first alert	Yes	No
6	Verify that the option to send a distress relay is NOT available on the EUT	Yes	No
7	Verify that the option to send a distress alert acknowledgement is NOT available on the EUT	Yes	No
8	Verify that the option to send a distress relay acknowledgement is available on the EUT	Yes	No
9	Verify that the option to terminate the procedure is available on the EUT	Yes	No
10	Verify that the EUT offers the option to display information about the history of received DSC messages pertinent to the current distress alert procedure	Yes	No
11	Wait for QE1 to send a second distress alert relay message with a GNSS fix		
12	Verify that EUT displays the updated position in the distress information	Yes	No
13	Verify that the elapsed time since the distress receiving procedure started is not changed on the EUT, but updates normally	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_MOB_0002		
Summary:	Testing the reception of alarm self-cancel from MOB device		
Configuration:	CF_VHF_2		
References:	ETSI EN 300 338-2 [1], clause 6.5.12		
Pre-test conditions:	QE1 having sent at least one distress alert message (closed loop).		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Deactivate QE1 (cancel the current MOB event)		
2	Verify that EUT is displaying the elapsed time since having received the acknowledgement, and at top level the procedure stage is displayed as 'Cancelled'	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_MOB_0002		
Summary:	Testing the sending of an acknowledgement to MOB device to terminate a man-overboard event in closed loop		
Configuration:	CF_VHF_2		
References:	ETSI EN 300 338-2 [1], clause 6.5.12		
Pre-test conditions:	QE1 having sent at least one distress alert messages (closed loop) to EUT. The 'own vessel' ID of QE1 having previously been pre-programmed with the MMSI of the EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On the EUT send a distress relay acknowledgement		
2	Verify that the EUT gives a warning that acknowledging the MOB will deactivate the MOB device	Yes	No
3	On the EUT confirm the deactivation		
4	Verify that QE1 has received the acknowledgement and deactivated	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_MOB_0002		
Summary:	Testing the sending of an acknowledgement to MOB device to terminate a man-overboard event in group closed loop		
Configuration:	CF_VHF_2		
References:	ETSI EN 300 338-2 [1], clause 6.5.12		
Pre-test conditions:	QE1 having sent at least one distress alert messages (closed loop) to EUT. The 'own vessel' ID of QE1 having previously been pre-programmed with a group MMSI. The EUT having previously been pre-programmed to be a member of that group		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On the EUT send a distress relay acknowledgement		
2	Verify that the EUT gives a warning that acknowledging the MOB will deactivate the MOB device	Yes	No
3	On the EUT confirm the deactivation		
4	Verify that QE1 has received the acknowledgement and deactivated	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_MOB_0001		
Summary:	Test of receiving multiple MOB distress alerts from two MOB devices and that all three types 'open, closed and group closed' can be handled simultaneously		
Configuration:	CF_VHF_8		
References:	ETSI EN 300 338-2 [1], clause 6.5.12		
Pre-test conditions:	QE1 & QE2 shall be able to start in closed loop mode and move to open loop operation to perform this test (be marked DSC-MOB-C). Separate QE1 and QE2 so they will get different GNSS positions fixes. Pre-program QE1 with a group 'own vessel' MMSI and QE2 with an individual 'own vessel' MMSI of the EUT. Program EUT to be a member of the group		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Activate QE1 (trigger a MOB event)		
2	Wait until countdown is complete		
3	Verify that EUT receives a distress alert relay message of type man overboard without time or position	Yes	No
4	Verify that the EUT correctly displays QE1's MMSI and it is a MOB identity starting 972 in accordance with Recommendation ITU-R M.585-8 [2]	Yes	No
5	Wait until QE1 sends a second distress alert relay message with a GNSS position		
6	Verify that EUT displays the GNSS position of QE1	Yes	No
7	Activate QE2 (trigger a second MOB event)		
8	Wait until countdown is complete		
9	Verify that EUT shows both man overboard events in a list	Yes	No
10	Verify that the position of QE2 is unknown whilst the position of QE1 is displayed and that the time since the first distress alert relay is displayed at the top level	Yes	No
11	Wait until QE1 and QE2 send further distress alert relay messages		
12	Verify that the position of both MOBs update in the list and that the correct position of each is shown	Yes	No
13	Verify that the EUT displays at top level the elapsed time since receiving the first alert from QE1 and that the time since the first distress alert can be determined individually for each MOB in the list	Yes	No
14	Wait until QE1 goes into open loop and sends a distress alert messages		
15	Verify that EUT now sounds an alarm corresponding to receiving a distress alert rather than just a distress alert relay	Yes	No
16	Verify that EUT shows both man overboard events in a list	Yes	No
17	Verify that the EUT displays at top level the elapsed time since receiving the first distress alert relay from QE1	Yes	No
18	On the EUT select the option to terminate the current distress alert for QE2 before it also goes open loop		
19	Verify that the EUT gives a warning that terminating the current distress alert procedure will deactivate the MOB device	Yes	No
20	On the EUT confirm the termination		
21	Verify that QE2 has received the acknowledgement and deactivated	Yes	No
22	Verify that the procedure is still active with QE2 removed from the list and only QE1 in the list	Yes	No
23	On the EUT select the option to terminate the current distress alert for QE1		
24	Verify that the EUT gives a warning that terminating the current distress alert procedure will deactivate the MOB device	Yes	No
25	On the EUT confirm the termination		
26	Verify that QE1 has received the acknowledgement and deactivated	Yes	No
27	Verify that the procedure has been terminated	Yes	No
Final verdict:			

6.7 Sending Distress Relays and Acknowledgements

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDRA_0001		
Summary:	'Standby non-availability of relay and relay ACK'		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clause 6.5.9		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Verify that the option to send a Distress Relay is not available in the EUT	Yes	No
2	Verify that the option to send a Distress Relay Acknowledgement is not available in the EUT	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDRA_0002		
Summary:	'Handling of individually addressed distress relay and relay ACK'		
Configuration:	CF_VHF_5		
References:	ETSI EN 300 338-2 [1], clause 6.5.9		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to send a distress alert		
2	Verify that the option to send a Distress Relay Acknowledgement is not available in the EUT	Yes	No
3	Verify that the option to send a Distress Relay is available in the EUT	Yes	No
4	Cause EUT to relay the distress alert received from QE1		
5	Verify that QE2 receives the relayed distress alert message	Yes	No
6	Verify that the option to send a Distress Relay Acknowledgement is available in the EUT	Yes	No
7	Cause EUT to send a Distress Relay Acknowledgement to QE1		
8	Verify that QE1 receives the Distress Relay Acknowledgement from the EUT	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_SDRA_0003		
Summary:	'Handling of All ships distress relay and relay ACK'		
Configuration:	CF_VHF_5		
References:	ETSI EN 300 338-2 [1], clause 6.5.9		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to send an All ships distress alert message		
2	Verify that the option to send a Distress Relay Acknowledgement is not available in the EUT	Yes	No
3	Verify that the option to send an All ships Distress Relay is available in the EUT	Yes	No
4	Cause EUT to relay the distress alert received from QE1		
5	Verify that QE2 receives the relayed distress alert message	Yes	No
6	Verify that the option to send a Distress Relay Acknowledgement is not available in the EUT	Yes	No
Final verdict:			

6.8 Other calls

Interoperability Test Description			
Identifier:	TD_DSC_VHF_OC_0001		
Summary:	'Sending Individual test call'		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clause 6.7		
Pre-test conditions:	QE1 and EUT in standby on CH:16		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Test Call'		
2	Enter/select MMSI of QE1		
3	Cause EUT to send the call		
4	Verify that ACK is received from QE1	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_OC_0002		
Summary:	'Receiving Individual test call'		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clause 6.7		
Pre-test conditions:	QE1 and EUT in standby on CH:16		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Test Call'		
2	Enter/select MMSI of EUT		
3	Cause QE1 to send the call		
4	Verify that ACK is received from EUT	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_MOB_0003		
Summary:	'Receiving Individual test call from MOB device'. The purpose of the MOB test call is to check the proper function of the MOB GNSS receiver but it should be noted that the position of the MOB is not transmitted to the EUT but is sent instead as an AIS test burst. Verification of this function is outside the scope of the present document		
Configuration:	CF_VHF_2		
References:	ETSI EN 300 338-2 [1], clause 6.7		
Pre-test conditions:	QE1 deactivated and idle and EUT in standby on CH:16. Pre-program QE1 with the own-vessel MMSI of the EUT prior to testing		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 start a test		
2	Wait for QE1 to obtain a GNSS position		
3	Verify that QE1 time as received from the MOB is correctly displayed and that the sender's MMSI is correctly displayed and is a MOB identity starting 972 in accordance with Recommendation ITU-R M.585-8 [2]	Yes	No
4	Verify that ACK is received from EUT (QE1 exits test immediately)	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_OC_0003		
Summary:	'Sending Position Request call'		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clause 6.7		
Pre-test conditions:	QE1 and EUT in standby on CH:16		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Position Request'		
2	Enter/select MMSI of QE1		
3	Cause EUT to send the call		
4	Verify that position data is received from QE1	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_OC_0004		
Summary:	'Receiving Position Request call'		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clause 6.7		
Pre-test conditions:	QE1 and EUT in standby on CH:16		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Position Request'		
2	Enter/select MMSI of EUT		
3	Cause QE1 to send the call		
4	Verify that position data is received from EUT	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_OC_0005		
Summary:	'Receiving polling call'		
Configuration:	CF_VHF_1		
References:	ETSI EN 300 338-2 [1], clause 6.7		
Pre-test conditions:	QE1 and EUT in standby on CH:16 QE1 with polling call function		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Polling Call'		
2	Enter/select MMSI of EUT		
3	Cause QE1 to send the call		
4	Verify that ACK is received from EUT	Yes	No
Final verdict:			

6.9 Multiple automated procedures and parallel event handling

Interoperability Test Description			
Identifier:	TD_DSC_VHF_MAP_0001		
Summary:	'Handling of an incoming simultaneous new procedure'		
Configuration:	CF_VHF_5		
References:	ETSI EN 300 338-2 [1], clause 6.9		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Safety Call'		
2	Enter/select MMSI of QE1		
3	Cause EUT to send the call		
4	On QE2 select 'Call' then select 'Routine Call'		
5	Enter/select MMSI of EUT		
6	Cause QE2 to send the call		
7	Verify that one of the calls in the EUT is active and the other one is on hold	Yes	No
8	Verify voice communication over the active call	Yes	No
9	Verify that the display of automated procedures on hold in the EUT may be requested by a simple button press or selection	Yes	No
10	Verify that the operator is able to activate on the EUT a displayed automated procedure on hold by a single action, meaning a button press or menu item selection	Yes	No
11	Activate the call on hold on the EUT		
12	Verify that after the call on hold has been activated, the other call changes to held state	Yes	No
13	Verify voice communication over the active call	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_MAP_0002		
Summary:	'Handling of an initiated simultaneous new procedure'		
Configuration:	CF_VHF_5		
References:	ETSI EN 300 338-2 [1], clause 6.9		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Safety Call'		
2	Enter/select MMSI of QE1		
3	Cause EUT to send the call		
4	Verify that the EUT allows to place the current call on hold	Yes	No
5	On EUT place the current call on hold, then select 'Call' and select 'Routine Call'		
6	Enter/select MMSI of QE1		
7	Cause EUT to send the call		
8	Verify voice communication over the active call	Yes	No
9	Verify that the display of automated procedures on hold in the EUT may be requested by a simple button press or selection	Yes	No
10	Verify that the operator is able to activate on the EUT a displayed automated procedure on hold by a single action, meaning a button press or menu item selection	Yes	No
11	Activate the call on hold on the EUT		
12	Verify that after the call on hold has been activated, the other call changes to held state	Yes	No
13	Verify voice communication over the active call	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_MAP_0003		
Summary:	'Testing of the minimum required simultaneous automated procedures handling capacity'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.9		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Routine Call'		
2	Enter/select MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
3	On EUT select 'Call' then select 'Safety Call'		
4	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
5	On EUT select 'Call' then select 'Urgency Call'		
6	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
7	On EUT initiate 'Distress Call'		
8	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
9	On EUT select 'Call' then select 'Safety Call'		
10	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
11	On EUT select 'Call' then select 'Urgency Call'		
12	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
13	On EUT initiate 'Distress Call'		
14	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
15	On EUT select 'Call' then select 'Individual Routine Call'		
16	Enter/select MMSI of QE1 and cause EUT to send the call		
17	Verify that QE1 receives the call	Yes	No
18	Acknowledge the call from QE1		
19	Verify that all previous seven calls are still on hold, i.e. they are being displayed in list of calls being held, and furthermore each of them is being in 'Waiting for Acknowledgement' sub-stage	Yes	No
20	Verify voice communication over the active call	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_MAP_0004		
Summary:	'Testing of the limits on simultaneous automated procedures handling capacity'		
Configuration:	CF_VHF_3		
References:	ETSI EN 300 338-2 [1], clause 6.9		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	If the EUT can handle more than the required minimum number of simultaneous automated procedures, verify that the EUT provides a setup option where the operator can set this capacity limit value to seven or higher	Yes	No
2	If the EUT can handle more than the required minimum number of simultaneous automated procedures, set this capacity limit value to seven		
3	On EUT select 'Call' then select 'Routine Call'		
4	Enter/select MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
5	On EUT select 'Call' then select 'Safety Call'		
6	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
7	On EUT select 'Call' then select 'Urgency Call'		
8	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
9	On EUT initiate 'Distress Call'		
10	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
11	On EUT select 'Call' then select 'Safety Call'		
12	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
13	On EUT select 'Call' then select 'Urgency Call'		
14	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
15	On EUT initiate 'Distress Call'		
16	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
17	On EUT select 'Call' then select 'Routine Call'		
18	Enter/select MMSI of QE1 and cause EUT to send the call		
19	Verify that the EUT generates a warning stating that an automated procedure needs to be terminated	Yes	No
20	Verify that that the EUT does not offer the option of starting any new automated procedure, except for the sending of own distress alarm	Yes	No
21	On EUT push the Distress Button		
22	Release the distress button after the countdown is complete		
23	Verify that QE1 receives the EUT's Distress Alert	Yes	No
24	On QE1 acknowledge the EUT's alarm		
25	Verify voice communication between the EUT and QE1	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_MAP_0005		
Summary:	'Testing of priority handling when exceeding the limits on simultaneous automated procedures handling capacity'		
Configuration:	CF_VHF_5		
References:	ETSI EN 300 338-2 [1], clause 6.9		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	If the EUT can handle more than the required minimum number of simultaneous automated procedures, set this capacity limit value to seven		
2	On EUT select 'Call' then select 'Urgency Call'		
3	Enter/select MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
4	On EUT select 'Call' then select 'Safety Call'		
5	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
6	On EUT select 'Call' then select 'Routine Call'		
7	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
8	On EUT initiate 'Distress Call'		
9	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
10	On EUT select 'Call' then select 'Safety Call'		
11	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
12	On EUT select 'Call' then select 'Urgency Call'		
13	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
14	On EUT initiate 'Distress Call'		
15	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
16	On EUT select 'Call' then select 'Routine Call'		
17	Enter/select MMSI of QE1 and cause EUT to send the call		
18	Verify that the EUT generates a warning stating that an automated procedure needs to be terminated	Yes	No
19	On QE2 select 'Call' then select 'Routine Call'		
20	On QE2 enter/select MMSI of the EUT and cause QE2 to send the call		
21	Verify that the EUT receives QE2's Routine Call	Yes	No
22	On EUT answer QE2's Routine Call		
23	Verify voice communication between EUT and QE2	Yes	No
24	Verify that with the first Routine call, which has been initiated through steps 6 to 7, has been removed from the list of held calls while all other calls are still on hold, i.e. they are being displayed in list of calls being held	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_MAP_0006		
Summary:	'Testing of simultaneous automated procedures handling during held state'		
Configuration:	CF_VHF_5		
References:	ETSI EN 300 338-2 [1], clause 6.9		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Routine Call'		
2	Enter/select MMSI of QE1 and cause EUT to send the call		
3	On QE2 select 'Call' then select 'Routine Call'		
4	On QE2 enter/select MMSI of the EUT and cause QE2 to send the call		
5	On the EUT acknowledge and answer QE2's Routine Call		
6	Verify that the previous call to QE1 is now on hold, i.e. it is being displayed in list of calls being held, and furthermore that it is being in 'Waiting for Acknowledgement' sub-stage	Yes	No
7	On QE1 acknowledge the EUT's Routine call		
8	Verify that the previous call to QE1 is still on hold, i.e. it is being displayed in list of calls being held, and furthermore that it is being in 'Acknowledged' sub-stage	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_MAP_0007		
Summary:	'Testing of having only a single automated procedure at a time'		
Configuration:	CF_VHF_5		
References:	ETSI EN 300 338-2 [1], clause 6.9		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Routine Call'		
2	Enter/select MMSI of QE1 and cause EUT to send the call		
3	On QE1 acknowledge and answer the EUT's Routine call		
4	On QE2 select 'Call' then select 'Routine Call'		
5	On QE2 enter/select MMSI of the EUT and cause QE2 to send the call		
6	On the EUT acknowledge and answer QE2's Routine Call		
7	Verify that the previous call to QE1 is now on hold, i.e. it is being displayed in list of calls being held	Yes	No
8	On QE2 terminate the EUT's Routine call		
9	Verify that the previous call to QE1 is now in active state	Yes	No
10	Verify voice communication between EUT and QE1	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_MAP_0008		
Summary:	'Testing of automated termination of completed procedures'		
Configuration:	CF_VHF_5		
References:	ETSI EN 300 338-2 [1], clause 6.9		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 disable the auto acknowledge feature		
2	On EUT select 'Call' then select 'Test Call'		
3	Enter/select MMSI of QE1 and cause EUT to send the call		
4	On QE2 select 'Call' then select 'Routine Call'		
5	On QE2 enter/select MMSI of the EUT and cause QE2 to send the call		
6	On the EUT acknowledge and answer QE2's Routine Call		
7	Verify that the Test call to QE1 is now on hold, i.e. it is being displayed in list of calls being held	Yes	No
8	On QE1 acknowledge the EUT's Test call		
9	Verify that the Test call to QE1 has been terminated, i.e. it is not being displayed in list of calls being held	Yes	No
Final verdict:			

7 MF/HF radios

7.1 Individual Calls

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_IC_0001		
Summary:	'Sending Individual call - Routine'		
Configuration:	CF_MF_1		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on 2 182 kHz QE1 programmed with an individual MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Individual - Routine'		
2	Enter/select MMSI of QE1		
3	Verify that menu proposes an Inter-ship Channel	Yes	No
4	Verify if the proposed channel can be changed	Yes	No
5	Cause EUT to send the individual call to QE1		
6	Verify that QE1 receives the call	Yes	No
7	Verify that EUT is still on 2 182 kHz	Yes	No
8	Cause QE1 to send ACK to EUT		
9	Verify that EUT switches to the selected channel in step 4	Yes	No
10	Verify voice communication on this channel	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_IC_0002		
Summary:	'Sending Individual call with NACK - Routine'		
Configuration:	CF_MF_1		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on 2 182 kHz QE1 programmed with an individual MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Individual - Routine'		
2	Enter/select MMSI of QE1		
3	Verify that menu proposes an Intership Channel	Yes	No
4	Verify if the proposed channel can be changed	Yes	No
5	Cause EUT to send the individual call to QE1		
6	Verify that QE1 receives the call	Yes	No
7	Verify that EUT is still on 2 182 kHz	Yes	No
8	Cause QE1 to send NACK to EUT		
9	Verify that EUT does not switch to the selected channel in step 4	Yes	No
10	Verify that EUT indicates 'unable to comply'	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_IC_0003		
Summary:	'Sending Individual call to a coast station - Routine'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on 2 182 kHz QE1 programmed with a Coast Station MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Individual - Routine'		
2	Enter/select MMSI of QE1		
3	Verify that menu does not propose a working channel	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_IC_0004		
Summary:	'Receiving Individual call - Routine'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on 2 182 kHz EUT programmed with an individual MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Individual - Routine'		
2	Enter/select MMSI of EUT		
3	Set the proposed channel to 2 214 kHz		
4	Cause QE1 to send the individual call to EUT		
5	Verify that EUT receives the call and displays the proposed channel	Yes	No
6	Verify that EUT displays the MMSI of QE1	Yes	No
7	Verify that EUT is still on 2 182 kHz	Yes	No
8	Cause EUT to send ACK to QE1		
9	Verify that EUT switches to 2 214 kHz	Yes	No
10	Verify voice communication on this channel	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_IC_0005		
Summary:	'Receiving Individual call with NACK - Routine'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on 2 182 kHz EUT programmed with an individual MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Individual - Routine'		
2	Enter/select MMSI of EUT		
3	Set the proposed channel to 2 214 kHz		
4	Cause QE1 to send the individual call to EUT		
5	Verify that EUT receives the call and displays the proposed channel	Yes	No
6	Verify that EUT displays the MMSI of QE1	Yes	No
7	Verify that EUT is still on 2 182 kHz	Yes	No
8	Cause EUT to send NACK to QE1		
9	Verify that EUT is still on 2 182 kHz	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_IC_0006		
Summary:	'Receiving Individual call when busy - Routine'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:	QE1 and EUT in individual call on 2 214 kHz QE2 programmed with an individual MMSI of EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE2 select 'Call' then select 'Individual - Routine'		
2	Enter/select MMSI of EUT		
3	Cause QE2 to send the individual call to EUT		
4	Verify that EUT sounds a self-terminating alarm	Yes	No
5	Verify that EUT is still on 2 214 kHz	Yes	No
6	Cause EUT to terminate the individual call		
7	Verify that EUT displays that calls are on hold	Yes	No
8	On EUT enter the received call log and verify that the call from QE2 is logged	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_IC_0007		
Summary:	'Receiving Individual call - Urgency'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on 2 182 kHz EUT programmed with an individual MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Individual - Urgency'		
2	Enter/select MMSI of EUT		
3	Set the proposed channel to 2 214 kHz		
4	Cause QE1 to send the individual call to EUT		
5	Verify that EUT receives the call and displays the proposed channel	Yes	No
6	Verify that EUT sounds the Urgency alarm	Yes	No
7	Verify that EUT displays the MMSI of QE1	Yes	No
8	Verify that EUT is still on 2 182 kHz	Yes	No
9	Cause EUT to send ACK to QE1		
10	Verify that EUT switches to 2 214 kHz	Yes	No
11	Verify voice communication on this channel	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_IC_0008		
Summary:	'Receiving Individual call with NACK - Urgency'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on 2 182 kHz EUT programmed with an individual MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Individual - Urgency'		
2	Enter/select MMSI of EUT		
3	Set the proposed channel to 2 214 kHz		
4	Cause QE1 to send the individual call to EUT		
5	Verify that EUT receives the call and displays the proposed channel	Yes	No
6	Verify that EUT sounds the Urgency alarm	Yes	No
7	Verify that EUT displays the MMSI of QE1	Yes	No
8	Verify that EUT is still on 2 182 kHz	Yes	No
9	Cause EUT to send NACK to QE1		
10	Verify that EUT returns to standby on 2 182 kHz	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_IC_0009		
Summary:	'Receiving Individual call - Safety'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on 2 182 kHz EUT programmed with an individual MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Individual - Safety'		
2	Enter/select MMSI of EUT		
3	Set the proposed channel to 2 214 kHz		
4	Cause QE1 to send the individual call to EUT		
5	Verify that EUT receives the call and displays the proposed channel	Yes	No
6	Verify that EUT sounds the Safety alarm	Yes	No
7	Verify that EUT displays the MMSI of QE1	Yes	No
8	Verify that EUT is still on 2 182 kHz	Yes	No
9	Cause EUT to send ACK to QE1		
10	Verify that EUT switches to 2 214 kHz	Yes	No
11	Verify voice communication on this channel	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_IC_0010		
Summary:	'Receiving Individual call with NACK - Safety'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on 2 182 kHz EUT programmed with an individual MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Individual - Safety'		
2	Enter/select MMSI of EUT		
3	Set the proposed channel to 2 214 kHz		
4	Cause QE1 to send the individual call to EUT		
5	Verify that EUT receives the call and displays the proposed channel	Yes	No
6	Verify that EUT sounds the Safety alarm	Yes	No
7	Verify that EUT displays the MMSI of QE1	Yes	No
8	Verify that EUT is still on 2 182 kHz	Yes	No
9	Cause EUT to send NACK to QE1		
10	Verify that EUT returns to standby on 2 182 kHz	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_IC_0011		
Summary:	'Sending Individual call on a Distress channel'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on 2 182 kHz QE1 programmed with an individual MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Individual - Routine'		
2	Enter/select MMSI of QE1		
3	Verify that menu proposes an Inter-ship Channel	Yes	No
4	Enter a distress channel as working channel		
5	Cause EUT to send the individual call to QE1		
6	Verify that EUT does not send the call and indicates a channel selection error	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_IC_0012		
Summary:	'Sending Individual call - Safety'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on 2 182 kHz EUT programmed with an individual MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Individual - Safety'		
2	Enter/select MMSI of EUT		
3	Set the proposed channel to 2 214 kHz		
4	Cause EUT to send the individual call to QE1		
5	Verify that QE1 receives the call and displays the proposed channel	Yes	No
6	Verify that QE1 sounds the Safety alarm	Yes	No
7	Verify that QE1 displays the MMSI of EUT	Yes	No
8	Verify that EUT is still on 2 182 kHz	Yes	No
9	Cause QE1 to send ACK to QE1		
10	Verify that EUT switches to 2 214 kHz	Yes	No
11	Verify voice communication on this channel	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_IC_0013		
Summary:	'Sending Individual call - Urgency'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on 2 182 kHz EUT programmed with an individual MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Individual - Urgency'		
2	Enter/select MMSI of EUT		
3	Set the proposed channel to 2 214 kHz		
4	Cause EUT to send the individual call to QE1		
5	Verify that QE1 receives the call and displays the proposed channel	Yes	No
6	Verify that QE1 sounds the Urgency alarm	Yes	No
7	Verify that QE1 displays the MMSI of EUT	Yes	No
8	Verify that EUT is still on 2 182 kHz	Yes	No
9	Cause QE1 to send ACK to QE1		
10	Verify that EUT switches to 2 214 kHz	Yes	No
11	Verify voice communication on this channel	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_IC_0014		
Summary:	'Sending Individual Telex Safety call - FEC'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on 2 182 kHz EUT programmed with an individual MMSI EUT has telex function		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Individual safety - FEC Telex'		
2	Enter/select MMSI of QE1		
3	Set the proposed channel to 2 214 kHz		
4	Cause EUT to send the individual call to QE1		
5	Verify that QE1 receives the call and displays the proposed channel	Yes	No
6	Verify that QE1 sounds the Safety alarm	Yes	No
7	Verify that QE1 displays the MMSI of EUT	Yes	No
8	Verify that EUT is still on 2 182 kHz	Yes	No
9	Cause QE1 to send ACK to EUT		
10	Verify that EUT switches to 2 214 kHz	Yes	No
11	Verify telex communication on this channel	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_IC_0015		
Summary:	'Sending Individual Telex Safety call - ARQ'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on 2 182 kHz EUT programmed with an individual MMSI EUT has telex function		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Individual safety - ARQ Telex'		
2	Enter/select MMSI of QE1		
3	Set the proposed channel to 2 214 kHz		
4	Cause EUT to send the individual call to QE1		
5	Verify that QE1 receives the call and displays the proposed channel	Yes	No
6	Verify that QE1 sounds the Safety alarm	Yes	No
7	Verify that QE1 displays the MMSI of EUT	Yes	No
8	Verify that EUT is still on 2 182 kHz	Yes	No
9	Cause QE1 to send ACK to EUT		
10	Verify that EUT switches to 2 214 kHz	Yes	No
11	Verify telex communication on this channel	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_IC_0016		
Summary:	'Receiving Individual Telex Safety call - FEC'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on 2 182 kHz EUT programmed with an individual MMSI EUT has telex function		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Individual safety - FEC Telex'		
2	Enter/select MMSI of EUT		
3	Set the proposed channel to 2 214 kHz		
4	Cause QE1 to send the individual call to EUT		
5	Verify that EUT receives the call and displays the proposed channel	Yes	No
6	Verify that EUT sounds the Safety alarm	Yes	No
7	Verify that EUT displays the MMSI of EUT	Yes	No
8	Verify that EUT is still on 2 182 kHz	Yes	No
9	Cause EUT to send ACK to QE1		
10	Verify that EUT switches to 2 214 kHz	Yes	No
11	Verify telex communication on this channel	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_IC_0017		
Summary:	'Receiving Individual Telex Safety call - ARQ'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on 2 182 kHz EUT programmed with an individual MMSI EUT has telex function		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Individual safety - ARQ Telex'		
2	Enter/select MMSI of EUT		
3	Set the proposed channel to 2 214 kHz		
4	Cause QE1 to send the individual call to EUT		
5	Verify that EUT receives the call and displays the proposed channel	Yes	No
6	Verify that EUT sounds the Safety alarm	Yes	No
7	Verify that EUT displays the MMSI of EUT	Yes	No
8	Verify that EUT is still on 2 182 kHz	Yes	No
9	Cause EUT to send ACK to QE1		
10	Verify that EUT switches to 2 214 kHz	Yes	No
11	Verify telex communication on this channel	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_IC_0018		
Summary:	'Sending Individual Telex Urgency call - FEC'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on 2 182 kHz EUT programmed with an individual MMSI EUT has telex function		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Individual urgency - FEC Telex'		
2	Enter/select MMSI of QE1		
3	Set the proposed channel to 2 214 kHz		
4	Cause EUT to send the individual call to QE1		
5	Verify that QE1 receives the call and displays the proposed channel	Yes	No
6	Verify that QE1 sounds the Urgency alarm	Yes	No
7	Verify that QE1 displays the MMSI of EUT	Yes	No
8	Verify that EUT is still on 2 182 kHz	Yes	No
9	Cause QE1 to send ACK to EUT		
10	Verify that EUT switches to 2 214 kHz	Yes	No
11	Verify telex communication on this channel	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_IC_0019		
Summary:	'Sending Individual Telex Urgency call - ARQ'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on 2 182 kHz EUT programmed with an individual MMSI EUT has telex function		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Individual urgency - ARQ Telex'		
2	Enter/select MMSI of QE1		
3	Set the proposed channel to 2 214 kHz		
4	Cause EUT to send the individual call to QE1		
5	Verify that QE1 receives the call and displays the proposed channel	Yes	No
6	Verify that QE1 sounds the Urgency alarm	Yes	No
7	Verify that QE1 displays the MMSI of EUT	Yes	No
8	Verify that EUT is still on 2 182 kHz	Yes	No
9	Cause QE1 to send ACK to EUT		
10	Verify that EUT switches to 2 214 kHz	Yes	No
11	Verify telex communication on this channel	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_IC_0020		
Summary:	'Receiving Individual Telex Urgency call - FEC'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on 2 182 kHz EUT programmed with an individual MMSI EUT has telex function		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Individual urgency - FEC Telex'		
2	Enter/select MMSI of EUT		
3	Set the proposed channel to 2 214 kHz		
4	Cause QE1 to send the individual call to EUT		
5	Verify that EUT receives the call and displays the proposed channel	Yes	No
6	Verify that EUT sounds the Urgency alarm	Yes	No
7	Verify that EUT displays the MMSI of EUT	Yes	No
8	Verify that EUT is still on 2 182 kHz	Yes	No
9	Cause EUT to send ACK to QE1		
10	Verify that EUT switches to 2 214 kHz	Yes	No
11	Verify telex communication on this channel	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_IC_0021		
Summary:	'Receiving Individual Telex Urgency call - ARQ'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on 2 182 kHz EUT programmed with an individual MMSI EUT has telex function		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Individual urgency - ARQ Telex'		
2	Enter/select MMSI of EUT		
3	Set the proposed channel to 2 214 kHz		
4	Cause QE1 to send the individual call to EUT		
5	Verify that EUT receives the call and displays the proposed channel	Yes	No
6	Verify that EUT sounds the Urgency alarm	Yes	No
7	Verify that EUT displays the MMSI of EUT	Yes	No
8	Verify that EUT is still on 2 182 kHz	Yes	No
9	Cause EUT to send ACK to QE1		
10	Verify that EUT switches to 2 214 kHz	Yes	No
11	Verify telex communication on this channel	Yes	No
Final verdict:			

7.2 Group Calls

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_GC_0001		
Summary:	'Sending group call - Routine'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on 2 182 kHz QE1 programmed with a group MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Group - Routine'		
2	Enter/select group MMSI of QE1		
3	Verify that menu proposes an Inter-ship Channel	Yes	No
4	Verify if the proposed channel can be changed	Yes	No
5	Cause EUT to send the group call to QE1		
6	Verify that QE1 receives the call	Yes	No
7	Verify that EUT switches to the selected channel in step 4	Yes	No
8	Verify voice communication on this channel	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_GC_0002		
Summary:	'Receiving group call - Routine'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on 2 182 kHz EUT programmed with an group MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Group - Routine'		
2	Enter/select group MMSI of EUT		
3	Set the proposed channel to 2 214 kHz		
4	Cause QE1 to send the group call to EUT		
5	Verify that EUT receives the call and displays the proposed channel	Yes	No
6	Verify that EUT displays the MMSI of QE1	Yes	No
7	Verify that EUT switches to 2 214 kHz	Yes	No
8	Verify voice communication on this channel	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_GC_0003		
Summary:	'Receiving Group call when busy - Routine'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:	QE1 and EUT in group call on 2 214 kHz QE2 programmed with an individual MMSI of EUT		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE2 select 'Call' then select 'Individual - Routine'		
2	Enter/select group MMSI of EUT		
3	Cause QE2 to send the individual call to EUT		
4	Verify that EUT sounds a self-terminating alarm	Yes	No
5	Verify that EUT is still on 2 214 kHz	Yes	No
6	Cause EUT to terminate the individual call		
7	Verify that EUT displays that calls are on hold	Yes	No
8	On EUT enter the received call log and verify that the call from QE2 is logged	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_GC_0004		
Summary:	'Sending Group call on a Distress channel'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:	QE1 and EUT in standby on 2 182 kHz QE1 programmed with a group MMSI		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Group - Routine'		
2	Enter/select MMSI of QE1		
3	Verify that menu proposes an Inter-ship Channel	Yes	No
4	Enter a distress channel as working channel		
5	Cause EUT to send the group call to QE1		
6	Verify that EUT does not send the call and indicates a channel selection error	Yes	No
Final verdict:			

7.3 Geographic Area Calls

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_GAC_0001		
Summary:	'Sending Geographic Area call - MF- Safety'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Geographic Area - Safety'		
2	Verify that the proposed channel is 2 182 kHz	Yes	No
3	Change the proposed channel to 2 214 kHz		
4	Cause EUT to send the call		
5	Verify that QE1 receives the call and sounds the Safety alarm	Yes	No
6	Verify that QE1 displays the MMSI of the EUT	Yes	No
7	Verify the voice communication on 2 214 kHz	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_GAC_0002		
Summary:	'Sending Geographic Area call - HF- Safety'		
Configuration:	CF_HF_2		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Geographic Area - Safety'		
2	Verify that the proposed channel is 8 291 kHz	Yes	No
3	Change the proposed channel to 8 176 kHz		
4	Cause EUT to send the call		
5	Verify that QE1 receives the call and sounds the Safety alarm	Yes	No
6	Verify that QE1 displays the MMSI of the EUT	Yes	No
7	Verify the voice communication on 8 176 kHz	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_GAC_0003		
Summary:	'Sending Geographic Area call - MF- Urgency'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Geographic Area - Safety'		
2	Verify that the proposed channel is 2 182 kHz	Yes	No
3	Change the proposed channel to 2 214 kHz		
4	Cause EUT to send the call		
5	Verify that QE1 receives the call and sounds the Urgency alarm	Yes	No
6	Verify that QE1 displays the MMSI of the EUT	Yes	No
7	Verify the voice communication on 2 214 kHz	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_GAC_0004		
Summary:	'Sending Geographic Area call - HF- Urgency'		
Configuration:	CF_HF_2		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Geographic Area - Safety'		
2	Verify that the proposed channel is 8 291 kHz	Yes	No
3	Change the proposed channel to 8 176 kHz		
4	Cause EUT to send the call		
5	Verify that QE1 receives the call and sounds the Urgency alarm	Yes	No
6	Verify that QE1 displays the MMSI of the EUT	Yes	No
7	Verify the voice communication on 8 176 kHz	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_GAC_0005		
Summary:	'Receiving Geographic Area call - MF- Safety'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:	EUT configured with a position < 100 nm from QE1		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to send a 'Geographic Area - Safety' to EUT		
2	Verify that EUT receives the call and sounds the Safety alarm	Yes	No
3	Verify that QE1 displays the MMSI of the EUT		
4	Verify the voice communication on 2 182 kHz	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_GAC_0006		
Summary:	'Receiving Geographic Area call - HF- Safety'		
Configuration:	CF_HF_2		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:	EUT configured with a position < 100 nm from QE1		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to send a 'Geographic Area - Safety' to EUT		
2	Verify that EUT receives the call and sounds the Safety alarm	Yes	No
3	Verify that QE1 displays the MMSI of the EUT		
4	Verify the voice communication on 8 291 kHz	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_GAC_0007		
Summary:	'Receiving Geographic Area call - MF- Urgency'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:	EUT configured with a position < 100 nm from QE1		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to send a 'Geographic Area - Urgency' to EUT		
2	Verify that EUT receives the call and sounds the Urgency alarm	Yes	No
3	Verify that QE1 displays the MMSI of the EUT	Yes	No
4	Verify the voice communication on 2 182 kHz	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_GAC_0008		
Summary:	'Receiving Geographic Area call - HF- Urgency'		
Configuration:	CF_HF_2		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:	EUT configured with a position < 100 nm from QE1		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to send a 'Geographic Area - Urgency' to EUT		
2	Verify that EUT receives the call and sounds the Urgency alarm	Yes	No
3	Verify that QE1 displays the MMSI of the EUT	Yes	No
4	Verify the voice communication on 8 291 kHz	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_GAC_0009		
Summary:	'Receiving Geographic Area call - MF- Safety - Out of range'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.3 and annex D		
Pre-test conditions:	EUT configured with a position > 600 nm from QE1		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to send a 'Geographic Area - Safety' to EUT		
2	Verify that EUT does not receive the call	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_GAC_0010		
Summary:	'Receiving Geographic Area call - HF- Safety - Out of range'		
Configuration:	CF_HF_2		
References:	ETSI EN 300 338-2 [1], clause 6.3 and annex D		
Pre-test conditions:	EUT configured with a position > 600 nm from QE1		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to send a 'Geographic Area - Safety' to EUT		
2	Verify that EUT does not receive the call	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_GAC_0011		
Summary:	'Receiving Geographic Area call - MF- Urgency - Out of range'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.3 and annex D		
Pre-test conditions:	EUT configured with a position > 600 nm from QE1		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to send a 'Geographic Area - Urgency' to EUT		
2	Verify that EUT does not receive the call	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_GAC_0012		
Summary:	'Receiving Geographic Area call - HF- Urgency - Out of range'		
Configuration:	CF_HF_2		
References:	ETSI EN 300 338-2 [1], clause 6.3 and annex D		
Pre-test conditions:	EUT configured with a position > 600 nm from QE1		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to send a 'Geographic Area - Urgency' to EUT		
2	Verify that EUT does not receive the call	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_GAC_0013		
Summary:	'Sending Geographic Area call - FEC - Safety'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:	EUT has telex function		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Geographic Area - FEC Safety'		
2	Verify that the proposed channel is 2 182 kHz	Yes	No
3	Change the proposed channel to 2 214 kHz		
4	Cause EUT to send the call		
5	Verify that QE1 receives the call and sounds the Safety alarm	Yes	No
6	Verify that QE1 displays the MMSI of the EUT	Yes	No
7	Verify the telex communication on 2 214 kHz	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_GAC_0014		
Summary:	'Sending Geographic Area call - FEC - Urgency'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.6.1 and annex C		
Pre-test conditions:	EUT has telex function		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Geographic Area - FEC Urgency'		
2	Verify that the proposed channel is 2 182 kHz	Yes	No
3	Change the proposed channel to 2 214 kHz		
4	Cause EUT to send the call		
5	Verify that QE1 receives the call and sounds the Urgency alarm	Yes	No
6	Verify that QE1 displays the MMSI of the EUT	Yes	No
7	Verify the telex communication on 2 214 kHz	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_GAC_0015		
Summary:	'Receiving Geographic Area call - FEC - Safety'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:	EUT has telex function		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Geographic Area - FEC Safety'		
2	Change the proposed channel to 2 214 kHz		
3	Cause QE1 to send the call		
4	Verify that EUT receives the call and sounds the Safety alarm	Yes	No
5	Verify that EUT displays the MMSI of the QE1	Yes	No
6	Verify the telex communication on 2 214 kHz	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_GAC_0016		
Summary:	'Receiving Geographic Area call - FEC - Urgency'		
Configuration:	CF_MF_2		
References:	ETSI EN 300 338-2 [1], clause 6.7.1 and annex C		
Pre-test conditions:	EUT has telex function		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Geographic Area - FEC Urgency'		
2	Change the proposed channel to 2 214 kHz		
3	Cause QE1 to send the call		
4	Verify that EUT receives the call and sounds the Urgency alarm	Yes	No
5	Verify that EUT displays the MMSI of the QE1	Yes	No
6	Verify the telex communication on 2 214 kHz	Yes	No
Final verdict:			

7.4 Sending Distress Alerts

7.4.0 General Operation

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0001		
Summary:	'Sending distress alert - stop before countdown'		
Configuration:	CF_MF_1 and CF_HF_1		
References:	ETSI EN 300 338-2 [1], clause 6.4		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT perform action 1 for sending distress alerts		
2	On EUT perform action 2 for sending distress alerts		
3	Verify that action 1 and action 2 are different	Yes	No
4	Verify that EUT displays a countdown to sending	Yes	No
5	Verify that EUT sounds a countdown alarm	Yes	No
6	Verify the EUT gives a visible alarm	Yes	No
7	Stop action 2 (step 2) before countdown expires		
8	Verify that QE1 does not receive a distress alert	Yes	No
9	Verify that EUT returns to standby	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0002		
Summary:	'Sending distress alert - undesignated alert content - MF'		
Configuration:	CF_MF_1		
References:	ETSI EN 300 338-2 [1], clause 6.4.4		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT perform action 1 for sending distress alerts		
2	On EUT perform action 2 for sending distress alerts		
3	Verify that action 1 and action 2 are different	Yes	No
4	Verify that EUT displays a countdown to sending	Yes	No
5	Verify that EUT sounds a countdown alarm	Yes	No
6	Verify the EUT gives a visible alarm	Yes	No
7	Continue action 2 (step 2) until countdown expires		
8	Verify that QE1 receives the distress alert on 2 187,5 kHz	Yes	No
9	Verify that QE1 displays the MMSI of EUT	Yes	No
10	Verify that QE1 displays nature of distress = undesignated	Yes	No
11	Verify that QE1 displays the position and time from EUT	Yes	No
12	Verify the voice communication between EUT and QE1 on 2 182 kHz	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0003		
Summary:	'Sending distress alert - undesignated alert content - HF'		
Configuration:	CF_HF_1		
References:	ETSI EN 300 338-2 [1], clause 6.4.4		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT perform action 1 for sending distress alerts		
2	On EUT perform action 2 for sending distress alerts		
3	Verify that action 1 and action 2 are different	Yes	No
4	Verify that EUT displays a countdown to sending	Yes	No
5	Verify that EUT sounds a countdown alarm	Yes	No
6	Verify the EUT gives a visible alarm	Yes	No
7	Continue action 2 (step 2) until countdown expires		
8	Verify that QE1 receives the distress alert on 2 187,5 kHz	Yes	No
9	Verify that QE1 receives the distress alert on 4 207,5 kHz	Yes	No
10	Verify that QE1 receives the distress alert on 6 312 kHz	Yes	No
11	Verify that QE1 receives the distress alert on 8 414,5 kHz	Yes	No
12	Verify that QE1 receives the distress alert on 12 577 kHz	Yes	No
13	Verify that QE1 receives the distress alert on 16 804,5 kHz	Yes	No
14	Verify that QE1 displays the MMSI of EUT	Yes	No
15	Verify that QE1 displays nature of distress = undesignated	Yes	No
16	Verify that QE1 displays the position and time from EUT	Yes	No
17	Verify the voice communication between EUT and QE1 on 8 291 kHz	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0004		
Summary:	'Sending distress alert - user selectable frequencies - HF'		
Configuration:	CF_HF_1		
References:	ETSI EN 300 338-2 [1], clause 6.4.4		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT, send a distress call but only on 8 MHz		
2	Cause EUT to send distress alert		
3	Verify that QE1 receives the distress alert on 8 414,5 kHz	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0005		
Summary:	'Validation of displaying the correct alert attempt sub-stage information'		
Configuration:	CF_MF_2 and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4, 6.4.10 and 6.5.3		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT push Distress Button		
2	Release the distress button after the countdown is complete		
3	Verify that EUT displays 'transmitting' sub-stage when the countdown has completed	Yes	No
4	Verify that EUT displays 'waiting for acknowledgement' sub-stage and displays the elapsed time since this sub-stage started	Yes	No
5	On QE1 acknowledge the EUT's alarm		
6	Verify that EUT displays 'acknowledged' sub-stage and displays the elapsed time since this sub-stage started	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0006		
Summary:	'Validation that the required items of the automated procedure are being properly displayed'		
Configuration:	CF_MF_1 and CF_HF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.2 and 6.4.3		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT push the Distress Button		
2	Release the distress button after the countdown is complete		
3	Verify that the EUT indicates that it is in transmitting state during distress alert transmission	Yes	No
4	Verify that the remaining time to the next automated sending of the distress alert attempt is displayed on the EUT screen	Yes	No
5	Verify that the EUT sets the time to the next automated alert sending to between 3,5 minutes and 4,5 minutes, and check that this interval is different each time	Yes	No
6	Verify that the EUT still indicates that it is waiting for an acknowledgement	Yes	No
7	Verify that the option to pause the countdown to the next distress alert attempt is available on the EUT	Yes	No
8	Verify that the option to cancel the distress alert attempt is available on the EUT	Yes	No
9	Verify that the option to resend the distress alert attempt is available on the EUT	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0007		
Summary:	'Validation that a paused automated procedure can be resumed'		
Configuration:	CF_MF_1 and CF_HF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.2 and 6.4.3		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT push the Distress Button		
2	Release the distress button after the countdown is complete		
3	Wait until the EUT is in a countdown to the next distress alert attempt and pause the countdown		
4	Verify that the option to resume the countdown to the next distress alert attempt is available on the EUT	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0008		
Summary:	'Validation of the alert cancel procedure - warning'		
Configuration:	CF_MF_1 and CF_HF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.2 and 6.4.3		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT push the Distress Button		
2	Release the distress button after the countdown is complete		
3	Wait until the EUT is in a countdown to the next distress alert transmission attempt and cancel the distress alert		
4	Verify that the EUT displays a warning about the initiated cancel procedure, and offers the possibility of exiting the cancel procedure	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0009		
Summary:	'Validation of the alert cancel procedure'		
Configuration:	CF_MF_1 and CF_HF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.2 and 6.4.3		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT push the Distress Button		
2	Release the distress button after the countdown is complete		
3	Wait until the EUT is in a countdown to the next distress alert transmission attempt and cancel the distress alert		
4	When the EUT displays a warning about the initiated cancel procedure confirm the cancellation		
5	Verify that QE1 receives the distress cancel on all frequencies that had received the distress alert	Yes	No
6	Verify that EUT requests voice cancellation on all frequency bands used by the alert and displays suitable text to be read	Yes	No
7	Verify that it is not possible to exit the procedure until every frequency band used by the alert has been manually processed	Yes	No
8	Verify that when all these voice calls have been processed that the procedure goes to 'acknowledged' state and can be exited	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0010		
Summary:	'Validation that the required items of the alert acknowledgement are being properly displayed'		
Configuration:	CF_MF_2 and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clauses 6.4.2, 6.4.3 and 6.4.12		
Pre-test conditions:	The EUT having sent a distress alert		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 acknowledge the EUT's distress alert		
2	Verify that the EUT displays the means to silence the alarm	Yes	No
3	Verify that the EUT indicates the MMSI of QE1	Yes	No
4	Verify that the operator can speak to QE1 from the EUT	Yes	No
5	Verify that the operator can speak to the EUT from QE1	Yes	No
6	Verify that the EUT no longer offers the option to resend the distress alert attempt	Yes	No
7	Verify that the EUT no longer offers the option to cancel the distress alert attempt	Yes	No
8	Verify that the EUT offers the option to terminate the sending distress automated procedure	Yes	No
9	Verify that the EUT offers the option to put the sending distress automated procedure on hold	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0011		
Summary:	'Validation that the automated alert resending procedure stops after acknowledgement'		
Configuration:	CF_MF_2 and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clauses 6.4.2 and 6.4.3		
Pre-test conditions:	The EUT having transmitted a first distress alert attempt		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 acknowledge the EUT's distress alert		
2	Verify that QE1 does not receive from the EUT any further distress alert transmission attempts	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0012		
Summary:	'Validation that repeated distress alert acknowledgements'		
Configuration:	CF_MF_5 and CF_HF_5		
References:	ETSI EN 300 338-2 [1], clauses 6.4.7 and 6.4.8		
Pre-test conditions:	The EUT having transmitted a first distress alert attempt		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 acknowledge the EUT's distress alert		
2	Verify that the EUT sounds the manually terminated acknowledgement alarm	Yes	No
3	On QE2 acknowledge the EUT's distress alert		
4	Verify that the EUT sounds only the self-terminating alarm	Yes	No
Final verdict:			

7.4.1 Distress alert sending priority

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0016		
Summary:	'Distress alert during DSC call preparation'		
Configuration:	CF_MF_4 and CF_HF_4		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.9.2.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On the EUT select the option to send an individual DSC message of priority routine and enter/select the MMSI of QE2		
2	Before the DSC message is actually sent, start the distress alert attempt by using the dedicated distress button		
3	Verify that QE1 receives the EUT's distress alert	Yes	No
4	Verify that QE1 receives distress information with default values and the indicated alert sender is the EUT	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0017		
Summary:	'Distress alert after DSC call initiation'		
Configuration:	CF_MF_4 and CF_HF_4		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.9.2.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On the EUT select the option to send an individual DSC message of priority routine and enter/select the MMSI of QE2		
2	After the non-distress DSC automated sending procedure has started on EUT, start the distress alert attempt by using the dedicated distress button		
3	Verify that QE1 receives the EUT's distress alert	Yes	No
4	Verify that QE1 receives distress information with default values and the indicated alert sender is the EUT	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0018		
Summary:	'Validation that repeated pressing of distress button is appropriately handled'		
Configuration:	CF_MF_1 and CF_HF_1		
References:	ETSI EN 300 338-2 [1], clause 6.4.4		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT push the Distress Button		
2	Release the distress button of the EUT after the countdown is complete, and then push again the Distress Button		
3	Verify that on the EUT this action of repeated pushing of the distress button is ignored or activates the resend procedure	Yes	No
4	Verify that the ongoing sending distress alert automated procedure on the EUT is uninterrupted	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0019		
Summary:	'Distress alert after reception of a preceding distress alert'		
Configuration:	CF_MF_4 and CF_HF_4		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.9.2.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE2 push the Distress Button		
2	After the DSC alert has been received on EUT, start the distress alert attempt by using the dedicated distress button		
3	Verify that QE1 receives the EUT's distress alert	Yes	No
4	Verify that QE1 receives distress information with default values and the indicated alert sender is the EUT	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0020		
Summary:	'Distress alert after DSC call reception'		
Configuration:	CF_MF_4 and CF_HF_4		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.9.2.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On the QE2 select the option to send an individual DSC message of priority routine and enter/select the MMSI of the EUT		
2	After the non-distress DSC automated reception procedure has started on EUT, start the distress alert attempt by using the dedicated distress button		
3	Verify that QE1 receives the EUT's distress alert	Yes	No
4	Verify that QE1 receives distress information with default values and the indicated alert sender is the EUT	Yes	No
Final verdict:			

7.4.2 Ongoing distress alert priority

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0021		
Summary:	'Validation of ongoing distress alert priority for distress alert relay reception'		
Configuration:	CF_MF_3 and CF_HF_3		
References:	ETSI EN 300 338-2 [1], clause 6.4.7		
Pre-test conditions:	EUT having sent a distress alert and being in 'waiting for acknowledgement' sub-stage		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE2 press the distress alert button, and have QE1 relay the received distress alert to the EUT		
2	Verify that the EUT remains in 'waiting for acknowledgement' sub-stage	Yes	No
3	Verify that reception of the above DSC event does not trigger an alarm in the EUT	Yes	No
4	Verify that reception of the above DSC event does not initiate a new automated procedure on hold	Yes	No
5	Verify that the EUT stores the above DSC event record in its log	Yes	No
6	On QE1 acknowledge the EUT's distress alert		
7	On QE2 resend the distress alert, and have QE1 relay the received distress alert to the EUT		
8	Verify that the EUT remains in 'alert acknowledged' sub-stage	Yes	No
9	Verify that reception of the above DSC event triggers an alarm in the EUT	Yes	No
10	Verify that reception of the above DSC event initiates a new procedure on hold	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0022		
Summary:	'Validation of ongoing distress alert priority for Geographical Area RT call Safety'		
Configuration:	CF_MF_2 and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clause 6.4.7		
Pre-test conditions:	EUT having sent a distress alert and being in 'waiting for acknowledgement' sub-stage		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 initiate an 'Geographical Area RT call Safety' procedure		
2	Verify that the EUT remains in 'waiting for acknowledgement' sub-stage	Yes	No
3	Verify that reception of the above DSC event does not trigger an alarm in the EUT	Yes	No
4	Verify that reception of the above DSC event does not initiate a new automated procedure on hold	Yes	No
5	Verify that the EUT stores the above DSC event record in its log	Yes	No
6	On QE1 acknowledge the EUT's distress alert		
7	On QE1 initiate a new 'Geographical Area RT call Safety' procedure		
8	Verify that the EUT remains in 'alert acknowledged' sub-stage	Yes	No
9	Verify that reception of the above DSC event triggers an alarm in the EUT	Yes	No
10	Verify that reception of the above DSC event initiates a new procedure on hold	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0023		
Summary:	'Validation of ongoing distress alert priority for Geographical Area RT call Urgency'		
Configuration:	CF_MF_2 and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clause 6.4.7		
Pre-test conditions:	EUT having sent a distress alert and being in 'waiting for acknowledgement' sub-stage		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 initiate an 'Geographical Area RT call Urgency' procedure		
2	Verify that the EUT remains in 'waiting for acknowledgement' sub-stage	Yes	No
3	Verify that reception of the above DSC event does not trigger an alarm in the EUT	Yes	No
4	Verify that reception of the above DSC event does not initiate a new automated procedure on hold	Yes	No
5	Verify that the EUT stores the above DSC event record in its log	Yes	No
6	On QE1 acknowledge the EUT's distress alert		
7	On QE1 initiate a new 'Geographical Area RT call Urgency' procedure		
8	Verify that the EUT remains in 'alert acknowledged' sub-stage	Yes	No
9	Verify that reception of the above DSC event triggers an alarm in the EUT	Yes	No
10	Verify that reception of the above DSC event initiates a new procedure on hold	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0024		
Summary:	'Validation of ongoing distress alert priority for Individual RT call Safety'		
Configuration:	CF_MF_2 and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clause 6.4.7		
Pre-test conditions:	EUT having sent a distress alert and being in 'waiting for acknowledgement' sub-stage		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 initiate an 'Individual RT call Safety' procedure addressed to the EUT		
2	Verify that the EUT remains in 'waiting for acknowledgement' sub-stage	Yes	No
3	Verify that reception of the above DSC event does not trigger an alarm in the EUT	Yes	No
4	Verify that reception of the above DSC event does not initiate a new automated procedure on hold	Yes	No
5	Verify that the EUT stores the above DSC event record in its log	Yes	No
6	On QE1 acknowledge the EUT's distress alert		
7	On QE1 initiate a new 'Individual RT call Safety' procedure addressed to the EUT		
8	Verify that the EUT remains in 'alert acknowledged' sub-stage	Yes	No
9	Verify that reception of the above DSC event triggers an alarm in the EUT	Yes	No
10	Verify that reception of the above DSC event initiates a new procedure on hold	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0025		
Summary:	'Validation of ongoing distress alert priority for Individual RT call Urgency'		
Configuration:	CF_MF_2 and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clause 6.4.7		
Pre-test conditions:	EUT having sent a distress alert and being in 'waiting for acknowledgement' sub-stage		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 initiate an 'Individual RT call Urgency' procedure addressed to the EUT		
2	Verify that the EUT remains in 'waiting for acknowledgement' sub-stage	Yes	No
3	Verify that reception of the above DSC event does not trigger an alarm in the EUT	Yes	No
4	Verify that reception of the above DSC event does not initiate a new automated procedure on hold	Yes	No
5	Verify that the EUT stores the above DSC event record in its log	Yes	No
6	On QE1 acknowledge the EUT's distress alert		
7	On QE1 initiate a new 'Individual RT call Urgency' procedure addressed to the EUT		
8	Verify that the EUT remains in 'alert acknowledged' sub-stage	Yes	No
9	Verify that reception of the above DSC event triggers an alarm in the EUT	Yes	No
10	Verify that reception of the above DSC event initiates a new procedure on hold	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0026		
Summary:	'Validation of ongoing distress alert priority for Routine Individual RT call'		
Configuration:	CF_MF_2 and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clause 6.4.7		
Pre-test conditions:	EUT having sent a distress alert and being in 'waiting for acknowledgement' sub-stage		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 initiate a 'Routine RT call' procedure addressed to the EUT		
2	Verify that the EUT remains in 'waiting for acknowledgement' sub-stage	Yes	No
3	Verify that reception of the above DSC event does not trigger an alarm in the EUT	Yes	No
4	Verify that reception of the above DSC event does not initiate a new automated procedure on hold	Yes	No
5	Verify that the EUT stores the above DSC event record in its log	Yes	No
6	On QE1 acknowledge the EUT's distress alert		
7	On QE1 initiate a new 'Routine RT call' procedure addressed to the EUT		
8	Verify that the EUT remains in 'alert acknowledged' sub-stage	Yes	No
9	Verify that reception of the above DSC event triggers an alarm in the EUT	Yes	No
10	Verify that reception of the above DSC event initiates a new procedure on hold	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0027		
Summary:	'Validation of ongoing distress alert priority for a received other distress alert'		
Configuration:	CF_MF_4 and CF_HF_4		
References:	ETSI EN 300 338-2 [1], clause 6.4.7		
Pre-test conditions:	EUT having sent a distress alert and being in 'waiting for acknowledgement' sub-stage		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE2 press the distress alert button		
2	Verify that the EUT remains in 'waiting for acknowledgement' sub-stage	Yes	No
3	Verify that reception of the above DSC event does not trigger an alarm in the EUT	Yes	No
4	Verify that reception of the above DSC event does not initiate a new automated procedure on hold	Yes	No
5	Verify that the EUT stores the above DSC event record in its log	Yes	No
6	On QE1 acknowledge the EUT's distress alert		
7	On QE2 press the distress alert button again		
8	Verify that the EUT remains in 'alert acknowledged' sub-stage	Yes	No
9	Verify that reception of the above DSC event triggers an alarm in the EUT	Yes	No
10	Verify that reception of the above DSC event initiates a new procedure on hold	Yes	No
Final verdict:			

7.4.3 Manual termination after distress alert acknowledgement

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0028		
Summary:	'Validation of distress alert termination'		
Configuration:	CF_MF_2 and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clause 6.4.13		
Pre-test conditions:	EUT having sent a distress alert and being in 'waiting for acknowledgement' sub-stage		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Verify that the EUT does not offer the option to terminate the current distress alert procedure	Yes	No
2	On QE1 acknowledge the EUT's distress alert		
3	Verify that the EUT offers the option to terminate the current distress alert procedure	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0029		
Summary:	'Validation of not automatically displaying logged DSC alert messages after current alert termination'		
Configuration:	CF_MF_4 and CF_HF_4		
References:	ETSI EN 300 338-2 [1], clause 6.4.13		
Pre-test conditions:	EUT having sent a distress alert and being in 'waiting for acknowledgement' sub-stage		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE2 push the Distress alert button		
2	On QE1 acknowledge the EUT's distress alert		
3	On EUT terminate the current distress alert		
4	Verify that the EUT does not automatically start displaying the new DSC alert message from memory	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0030		
Summary:	'Validation of selecting and sending Fire/Explosion nature of distress'		
Configuration:	CF_MF_1 and CF_HF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.3 d)		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter distress alert set up menu on EUT		
2	Verify that the dedicated button for sending distress alerts is not used for accessing this menu	Yes	No
3	Select 'Fire/Explosion' nature of distress, and cause EUT to send the alert		
4	Verify that QE1 receives the nature of distress alert 'Fire/Explosion'	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0031		
Summary:	'Validation of selecting and sending Flooding nature of distress'		
Configuration:	CF_MF_1 and CF_HF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.3 d)		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter distress alert set up menu on EUT		
2	Verify that the dedicated button for sending distress alerts is not used for accessing this menu	Yes	No
3	Select 'Flooding' nature of distress, and cause EUT to send the alert		
4	Verify that QE1 receives the nature of distress alert 'Flooding'	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0032		
Summary:	'Validation of selecting and sending Collision nature of distress'		
Configuration:	CF_MF_1 and CF_HF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.3 d)		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter distress alert set up menu on EUT		
2	Verify that the dedicated button for sending distress alerts is not used for accessing this menu	Yes	No
3	Select 'Collision' nature of distress, and cause EUT to send the alert		
4	Verify that QE1 receives the nature of distress alert 'Collision'	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0033		
Summary:	'Validation of selecting and sending Grounding nature of distress'		
Configuration:	CF_MF_1 and CF_HF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.3 d)		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter distress alert set up menu on EUT		
2	Verify that the dedicated button for sending distress alerts is not used for accessing this menu	Yes	No
3	Select 'Grounding' nature of distress, and cause EUT to send the alert		
4	Verify that QE1 receives the nature of distress alert 'Grounding'	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0034		
Summary:	'Validation of selecting and sending Listing/Capsizing nature of distress'		
Configuration:	CF_MF_1 and CF_HF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.3 d)		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter distress alert set up menu on EUT		
2	Verify that the dedicated button for sending distress alerts is not used for accessing this menu	Yes	No
3	Select 'Listing/Capsizing' nature of distress, and cause EUT to send the alert		
4	Verify that QE1 receives the nature of distress alert 'Listing/Capsizing'	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0035		
Summary:	'Validation of selecting and sending Sinking nature of distress'		
Configuration:	CF_MF_1 and CF_HF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.3 d)		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter distress alert set up menu on EUT		
2	Verify that the dedicated button for sending distress alerts is not used for accessing this menu	Yes	No
3	Select 'Sinking' nature of distress, and cause EUT to send the alert		
4	Verify that QE1 receives the nature of distress alert 'Sinking'	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0036		
Summary:	'Validation of selecting and sending Disabled and Adrift nature of distress'		
Configuration:	CF_MF_1 and CF_HF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.3 d)		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter distress alert set up menu on EUT		
2	Verify that the dedicated button for sending distress alerts is not used for accessing this menu	Yes	No
3	Select 'Disabled and Adrift' nature of distress, and cause EUT to send the alert		
4	Verify that QE1 receives the nature of distress alert 'Disabled and Adrift'	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0037		
Summary:	'Validation of selecting and sending Abandoning ship nature of distress'		
Configuration:	CF_MF_1 and CF_HF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.3 d)		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter distress alert set up menu on EUT		
2	Verify that the dedicated button for sending distress alerts is not used for accessing this menu	Yes	No
3	Select 'Abandoning ship' nature of distress, and cause EUT to send the alert		
4	Verify that QE1 receives the nature of distress alert 'Abandoning ship'	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0038		
Summary:	'Validation of selecting and sending Piracy/Armed attack nature of distress'		
Configuration:	CF_MF_1 and CF_HF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.3 d)		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter distress alert set up menu on EUT		
2	Verify that the dedicated button for sending distress alerts is not used for accessing this menu	Yes	No
3	Select 'Piracy/Armed attack' nature of distress, and cause EUT to send the alert		
4	Verify that QE1 receives the nature of distress alert 'Piracy/Armed attack'	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0039		
Summary:	'Validation of selecting and sending Man overboard nature of distress'		
Configuration:	CF_MF_1 and CF_HF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.3 d)		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter distress alert set up menu on EUT		
2	Verify that the dedicated button for sending distress alerts is not used for accessing this menu	Yes	No
3	Select 'Man overboard' nature of distress, and cause EUT to send the alert		
4	Verify that QE1 receives the nature of distress alert 'Man overboard'	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0040		
Summary:	'Validation of unavailability of EPIRB nature of distress'		
Configuration:	CF_MF_1 and CF_HF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.4.4 and 6.3 d)		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Enter distress alert set up menu on EUT		
2	Verify that 'EPIRB' nature of distress cannot be selected on the EUT	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDA_0041		
Summary:	Updating of position and time during distress alert resending		
Configuration:	CF_MF_1 and CF_HF_1		
References:	ETSI EN 300 338-2 [1], clause 6.4.6		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT push the Distress Button		
2	Release the distress button after the countdown is complete		
3	Wait that the distress alert attempt is being resent several times, and change the position of the EUT between retransmissions		
4	Verify that QE1 receives subsequent distress alert messages with the updated UTC time information	Yes	No
5	Verify that QE1 receives subsequent distress alert messages with the updated geographic position information	Yes	No
Final verdict:			

7.5 Receiving Distress Alerts

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_RDA_0001		
Summary:	Basic test of receiving distress automated procedure - voice		
Configuration:	CF_MF_1		
References:	ETSI EN 300 338-2 [1], clause 6.5		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 push the Distress Button		
2	Release the distress button after the countdown is complete		
3	Verify that EUT correctly displays the UTC time information of the above distress alert message	Yes	No
4	Verify that the EUT correctly displays the geographic position information of QE1 at the time of above distress alert message, including fractional minutes or seconds of latitude and longitude	Yes	No
5	Verify that the EUT correctly displays the sender MMSI, intended recipients, and indicates that the DSC message type is 'distress alert'	Yes	No
6	Verify that the EUT displays the frequency on which the alert was received and selects the default distress frequency from the same band for subsequent communication	Yes	No
7	Verify that the EUT displays at top level the elapsed time since receiving the first alert	Yes	No
8	Verify that the option to send a distress relay is available on the EUT	Yes	No
9	Verify that the option to send a distress alert acknowledgement is available on the EUT	Yes	No
10	Verify that the option to send a distress relay acknowledgement is NOT available on the EUT	Yes	No
11	Verify that the option to terminate the procedure is available on the EUT	Yes	No
12	Verify that the EUT correctly displays at top level the current stage of the distress alert procedure - i.e. waiting for acknowledgement	Yes	No
13	Verify that the EUT offers the option to display information about the history of received DSC messages pertinent to the current distress alert procedure	Yes	No
14	Verify that the operator can speak to QE1 from the EUT	Yes	No
15	Verify that the operator can speak to the EUT from QE1	Yes	No
16	Verify that the EUT offers the option to terminate the current distress alert procedure	Yes	No
17	On the EUT select the option to terminate the current distress alert procedure		
18	Verify that the EUT gives a warning that the current distress alert procedure is being terminated	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_RDA_0002		
Summary:	Basic test of receiving distress automated procedure - telex		
Configuration:	CF_MF_1 and CF_HF_1		
References:	ETSI EN 300 338-2 [1], clause 6.5		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to send a FEC Distress alert		
2	Verify that EUT correctly displays the UTC time information of the above distress alert message	Yes	No
3	Verify that the EUT correctly displays the geographic position information of QE1 at the time of above distress alert message, including fractional minutes or seconds of latitude and longitude	Yes	No
4	Verify that the EUT correctly displays the sender MMSI, intended recipients, and indicates that the DSC message type is 'distress alert'	Yes	No
5	Verify that the EUT displays the frequency on which the alert was received and selects the default distress frequency from the same band for subsequent communication	Yes	No
6	Verify that the EUT displays at top level the elapsed time since receiving the first alert	Yes	No
7	Verify that the option to send a distress relay is available on the EUT	Yes	No
8	Verify that the option to send a distress alert acknowledgement is available on the EUT	Yes	No
9	Verify that the option to send a distress relay acknowledgement is NOT available on the EUT	Yes	No
10	Verify that the option to terminate the procedure is available on the EUT	Yes	No
11	Verify that the EUT correctly displays at top level the current stage of the distress alert procedure - i.e. waiting for acknowledgement	Yes	No
12	Verify that the EUT offers the option to display information about the history of received DSC messages pertinent to the current distress alert procedure	Yes	No
13	IF EUT has FEC function verify the communication with QE1	Yes	No
14	Verify that the EUT offers the option to terminate the current distress alert procedure	Yes	No
15	On the EUT select the option to terminate the current distress alert procedure		
16	Verify that the EUT gives a warning that the current distress alert procedure is being terminated	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_RDA_0003		
Summary:	Test of receiving distress automated procedure triggered by relay to Geographical Area - voice case		
Configuration:	CF_MF_3 and CF_HF_3		
References:	ETSI EN 300 338-2 [1], clause 6.5		
Pre-test conditions:	QE2 having sent a RT distress alert message		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Make QE1 relay the received distress alert addressed to Geographical Area		
2	Verify that EUT correctly displays the UTC time information of the relayed distress alert message	Yes	No
3	Verify that the EUT correctly displays the geographic position information of QE2 at the time of above distress alert message, including fractional minutes or seconds of latitude and longitude	Yes	No
4	Verify that the EUT correctly displays the QE2's MMSI, intended recipients, and indicates that the DSC message type is 'distress alert'	Yes	No
5	Verify that the EUT displays the frequency on which the alert was received and selects the default distress frequency from the same band for subsequent communication	Yes	No
6	Verify that the EUT displays at top level the elapsed time since receiving the first alert	Yes	No
7	Verify that the option to send an all ship distress relay is NOT available on the EUT	Yes	No
8	Verify that the option to send an all ship distress alert acknowledgement is NOT available on the EUT	Yes	No
9	Verify that the option to send an all ship distress relay acknowledgement is available on the EUT	Yes	No
10	Verify that the option to terminate the procedure is available on the EUT	Yes	No
11	Verify that the EUT correctly displays at top level the current stage of the distress alert procedure - i.e. waiting for acknowledgement	Yes	No
12	Verify that the EUT offers the option to display information about the history of received DSC messages pertinent to the current distress alert procedure	Yes	No
13	Verify that the EUT offers the option to terminate the current distress alert procedure	Yes	No
14	On the EUT select the option to terminate the current distress alert procedure		
15	Verify that the EUT gives a warning that the current distress alert procedure is being terminated	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_RDA_0004		
Summary:	Test of receiving distress automated procedure triggered by relay to individual address - voice case		
Configuration:	CF_MF_3 and CF_HF_3		
References:	ETSI EN 300 338-2 [1], clause 6.5		
Pre-test conditions:	QE2 having sent a RT distress alert message		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Make QE1 relay the received distress alert to the EUT's MMSI		
2	Verify that EUT correctly displays the UTC time information of the relayed distress alert message	Yes	No
3	Verify that the EUT correctly displays the geographic position information of QE2 at the time of above distress alert message, including fractional minutes or seconds of latitude and longitude	Yes	No
4	Verify that the EUT correctly displays the QE2's MMSI, intended recipients, and indicates that the DSC message type is 'distress alert'	Yes	No
5	Verify that the EUT displays the frequency on which the alert was received and selects the default distress frequency from the same band for subsequent communication	Yes	No
6	Verify that the EUT displays at top level the elapsed time since receiving the first alert	Yes	No
7	Verify that the option to send an all ship distress relay is NOT available on the EUT	Yes	No
8	Verify that the option to send an all ship distress alert acknowledgement is NOT available on the EUT	Yes	No
9	Verify that the option to send an all ship distress relay acknowledgement is available on the EUT	Yes	No
10	Verify that the option to terminate the procedure is available on the EUT	Yes	No
11	Verify that the EUT correctly displays at top level the current stage of the distress alert procedure - i.e. waiting for acknowledgement	Yes	No
12	Verify that the EUT offers the option to display information about the history of received DSC messages pertinent to the current distress alert procedure	Yes	No
13	Verify that the EUT offers the option to terminate the current distress alert procedure	Yes	No
14	On the EUT select the option to terminate the current distress alert procedure		
15	Verify that the EUT gives a warning that the current distress alert procedure is being terminated	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_RDA_0005		
Summary:	Test of receiving distress automated procedure triggered by relay to Geographical Area - telex case		
Configuration:	CF_MF_3 and CF_HF_3		
References:	ETSI EN 300 338-2 [1], clause 6.5		
Pre-test conditions:	QE2 having sent a FEC distress alert message		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Make QE1 relay the received distress alert addressed to the EUT's Geographical Area		
2	Verify that EUT correctly displays the UTC time information of the relayed distress alert message	Yes	No
3	Verify that the EUT correctly displays the geographic position information of QE2 at the time of above distress alert message, including fractional minutes or seconds of latitude and longitude	Yes	No
4	Verify that the EUT correctly displays the QE2's MMSI, intended recipients, and indicates that the DSC message type is 'distress alert'	Yes	No
5	Verify that the EUT displays the frequency on which the alert was received and selects the default distress frequency from the same band for subsequent communication	Yes	No
6	Verify that the EUT displays at top level the elapsed time since receiving the first alert	Yes	No
7	Verify that the option to send an all ship distress relay is NOT available on the EUT	Yes	No
8	Verify that the option to send an all ship distress alert acknowledgement is NOT available on the EUT	Yes	No
9	Verify that the option to send an all ship distress relay acknowledgement is available on the EUT	Yes	No
10	Verify that the option to terminate the procedure is available on the EUT	Yes	No
11	Verify that the EUT correctly displays at top level the current stage of the distress alert procedure - i.e. waiting for acknowledgement	Yes	No
12	Verify that the EUT offers the option to display information about the history of received DSC messages pertinent to the current distress alert procedure	Yes	No
13	Verify that the EUT offers the option to terminate the current distress alert procedure	Yes	No
14	On the EUT select the option to terminate the current distress alert procedure		
15	Verify that the EUT gives a warning that the current distress alert procedure is being terminated	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_RDA_0006		
Summary:	Test of receiving distress automated procedure triggered by relay to individual address - telex case		
Configuration:	CF_MF_3 and CF_HF_3		
References:	ETSI EN 300 338-2 [1], clause 6.5		
Pre-test conditions:	QE2 having sent a FEC distress alert message		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Make QE1 relay the received distress alert to the EUT's MMSI		
2	Verify that EUT correctly displays the UTC time information of the relayed distress alert message	Yes	No
3	Verify that the EUT correctly displays the geographic position information of QE2 at the time of above distress alert message, including fractional minutes or seconds of latitude and longitude	Yes	No
4	Verify that the EUT correctly displays the QE2's MMSI, intended recipients, and indicates that the DSC message type is 'distress alert'	Yes	No
5	Verify that the EUT displays the frequency on which the alert was received and selects the default distress frequency from the same band for subsequent communication	Yes	No
6	Verify that the EUT displays at top level the elapsed time since receiving the first alert	Yes	No
7	Verify that the option to send an all ship distress relay is NOT available on the EUT	Yes	No
8	Verify that the option to send an all ship distress alert acknowledgement is NOT available on the EUT	Yes	No
9	Verify that the option to send an all ship distress relay acknowledgement is available on the EUT	Yes	No
10	Verify that the option to terminate the procedure is available on the EUT	Yes	No
11	Verify that the EUT correctly displays at top level the current stage of the distress alert procedure - i.e. waiting for acknowledgement	Yes	No
12	Verify that the EUT offers the option to display information about the history of received DSC messages pertinent to the current distress alert procedure	Yes	No
13	Verify that the EUT offers the option to terminate the current distress alert procedure	Yes	No
14	On the EUT select the option to terminate the current distress alert procedure		
15	Verify that the EUT gives a warning that the current distress alert procedure is being terminated	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_RDA_0007		
Summary:	Testing the reception of self-acknowledged alert		
Configuration:	CF_MF_2 and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clause 6.5.2 c)		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Send a distress alert message from QE1, and then self-acknowledge this alarm on QE1		
2	Verify that EUT is displaying the elapsed time since having received the acknowledgement, and at top level the procedure stage is displayed as 'Cancelled'	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_RDA_0008		
Summary:	Test of the display of updated distress call information		
Configuration:	CF_MF_1 and CF_HF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.5.5 and 6.5.3 c)		
Pre-test conditions:	QE1 having sent a distress alert message		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Change the position of QE1 and resend the distress alert message		
2	Verify that EUT sounds a self-terminating alarm upon the reception of resent distress alert message	Yes	No
3	Verify that EUT displays the changed position in the distress information	Yes	No
4	Verify that the elapsed time since the distress receiving procedure started is not changed on the EUT	Yes	No
5	Verify that EUT displays the type of the latest received DSC message	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_RDA_0009		
Summary:	'Received distress alert procedure when busy'		
Configuration:	CF_MF_1		
References:	ETSI EN 300 338-2 [1], clause 6.5		
Pre-test conditions:	EUT engaged in communication on 8 291 kHz		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to send a distress alert to EUT on 2 187,5 kHz		
2	Verify that EUT sounds the distress alarm	Yes	No
3	Verify that EUT displays that a distress alert has been received	Yes	No
4	Verify that EUT displays the MMSI of QE1	Yes	No
5	Verify that EUT displays that 2 182 kHz will be selected in 10 seconds	Yes	No
6	Select the option to remain on 8 291 kHz	Yes	No
7	Verify that EUT does not change to 2 182 kHz	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_RDA_0010		
Summary:	Timeout testing of distress automated procedure		
Configuration:	CF_MF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.5.3 and 6.5.10		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Set the no activity timeout of received distress DSC automated procedures to some value in the range [10 seconds to 10 minutes]		
2	Cause the TE to send a Distress alert		
3	Wait until the no activity timer defined in step 1 almost expires		
4	Verify that at least 10 seconds prior to automated termination a visual and aural warning is given by the EUT, indicating the nearing no activity timeout	Yes	No
5	Verify that the EUT provides the means to silence the above alarm	Yes	No
6	Verify that the EUT provides the means to stop the upcoming 'no activity termination' of the automated procedure	Yes	No
Final verdict:			

7.6 Sending Distress Relays and Acknowledgements

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDRA_0001		
Summary:	'Standby non-availability of relay and relay ACK'		
Configuration:	CF_MF_1, CF_HF_1		
References:	ETSI EN 300 338-2 [1], clause 6.5.9		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Verify that the option to send a Distress Relay is not available in the EUT	Yes	No
2	Verify that the option to send a Distress Relay Acknowledgement is not available in the EUT	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDRA_0002		
Summary:	'Handling of distress relay and relay ACK on MF equipment'		
Configuration:	CF_MF_4		
References:	ETSI EN 300 338-2 [1], clause 6.5.9		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to send a distress alert		
2	Verify that the option to send a Distress Relay Acknowledgement is not available in the EUT	Yes	No
3	Verify that the option to send a Distress Relay is available in the EUT	Yes	No
4	Cause EUT to relay the distress alert received from QE1		
5	Verify that QE2 receives the relayed distress alert message	Yes	No
6	Verify that the option to send a Distress Relay Acknowledgement is available in the EUT	Yes	No
7	Cause EUT to send a Distress Relay Acknowledgement to QE1		
8	Verify that QE1 receives the Distress Relay Acknowledgement from the EUT	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDRA_0003		
Summary:	'Handling of individually addressed distress relay and relay ACK'		
Configuration:	CF_HF_4		
References:	ETSI EN 300 338-2 [1], clause 6.5.9		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to send a distress alert		
2	Verify that the option to send a Distress Relay Acknowledgement is not available in the EUT	Yes	No
3	Verify that the option to send a Distress Relay is available in the EUT	Yes	No
4	Verify that the option to send a Distress Relay to a coast station is available in the EUT	Yes	No
5	Verify that the option to override the default band of the DSC message is available in the EUT, enabling the EUT to send the Distress Relay on any one of the six distress channels	Yes	No
6	Cause EUT to relay the distress alert received from QE1		
7	Verify that QE2 receives the relayed distress alert message	Yes	No
8	Verify that the option to send a Distress Relay Acknowledgement is available in the EUT	Yes	No
9	Verify that the option to override the default band of the DSC message is available in the EUT, enabling the EUT to send the Distress Relay Acknowledgement on any one of the six distress channels	Yes	No
10	Cause EUT to send a Distress Relay Acknowledgement to QE1		
11	Verify that QE1 receives the Distress Relay Acknowledgement from the EUT	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDRA_0004		
Summary:	'Handling of distress alerts on HF equipment'		
Configuration:	CF_HF_4		
References:	ETSI EN 300 338-2 [1], clause 6.5.9		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to send a distress alert message		
2	Verify that the option to send a Distress Relay Acknowledgement is not available in the EUT	Yes	No
3	Verify that the option to send a Distress Relay to another ship is not available in the EUT	Yes	No
4	Verify that the option to send a Distress Relay to the coast station is available in the EUT	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDRA_0005		
Summary:	'Handling of Geographic Area distress relay and relay ACK on MF equipment'		
Configuration:	CF_MF_4		
References:	ETSI EN 300 338-2 [1], clause 6.5.9		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to send an All ships distress alert message		
2	Verify that the option to send a Distress Relay Acknowledgement is not available in the EUT	Yes	No
3	Verify that the option to send an All ships Distress Relay is not available in the EUT	Yes	No
4	Verify that the option to send a Geographic Area Distress Relay is available in the EUT	Yes	No
5	Cause EUT to relay the distress alert received from QE1		
6	Verify that QE2 receives the relayed distress alert message	Yes	No
7	Verify that the option to send a Distress Relay Acknowledgement is not available in the EUT	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_SDRA_0006		
Summary:	'Handling of Geographic Area distress relay and relay ACK on HF equipment'		
Configuration:	CF_HF_4		
References:	ETSI EN 300 338-2 [1], clause 6.5.9		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Cause QE1 to send an distress alert message		
2	Verify that the option to send a Distress Relay Acknowledgement is not available in the EUT	Yes	No
3	Verify that the option to send an All ships Distress Relay is not available in the EUT	Yes	No
4	Verify that the option to send a Geographic Area Distress Relay is available in the EUT	Yes	No
5	Verify that the option to send a Distress Relay to a coast station is available in the EUT	Yes	No
6	Verify that the option to override the default band of the DSC message is available in the EUT, enabling the EUT to send the Distress Relay on any one of the six distress channels	Yes	No
7	Cause EUT to relay the distress alert received from QE1		
8	Verify that QE2 receives the relayed distress alert message	Yes	No
9	Verify that the option to send a Distress Relay Acknowledgement is not available in the EUT	Yes	No
Final verdict:			

7.7 Other calls

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_OC_0001		
Summary:	'Sending Individual test call'		
Configuration:	CF_MF_1		
References:	ETSI EN 300 338-2 [1], clause 6.9.2.2		
Pre-test conditions:	QE1 and EUT in standby on 2 182 kHz		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Test Call'		
2	Enter/select MMSI of QE1		
3	Cause EUT to send the call		
4	Verify that ACK is received from QE1	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_OC_0002		
Summary:	'Receiving Individual test call'		
Configuration:	CF_MF_1		
References:	ETSI EN 300 338-2 [1], clause 6.9.2.2		
Pre-test conditions:	QE1 and EUT in standby on 2 182 kHz		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Test Call'		
2	Enter/select MMSI of EUT		
3	Cause QE1 to send the call		
4	Verify that ACK is received from EUT	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_OC_0003		
Summary:	'Sending Position Request call'		
Configuration:	CF_MF_1		
References:	ETSI EN 300 338-2 [1], clause 6.7		
Pre-test conditions:	QE1 and EUT in standby on 2 182 kHz		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Position Request'		
2	Enter/select MMSI of QE1		
3	Cause EUT to send the call		
4	Verify that position data is received from QE1	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_OC_0004		
Summary:	'Receiving Position Request call'		
Configuration:	CF_MF_1		
References:	ETSI EN 300 338-2 [1], clause 6.7		
Pre-test conditions:	QE1 and EUT in standby on 2 182 kHz		
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Position Request'		
2	Enter/select MMSI of EUT		
3	Cause QE1 to send the call		
4	Verify that position data is received from EUT	Yes	No
Final verdict:			

7.8 Multiple automated procedures and parallel event handling

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_MAP_0001		
Summary:	'Handling of an incoming simultaneous new procedure'		
Configuration:	CF_MF_4 and CF_HF_4		
References:	ETSI EN 300 338-2 [1], clause 6.9		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Safety Call'		
2	Enter/select MMSI of QE1		
3	Cause EUT to send the call		
4	On QE2 select 'Call' then select 'Routine Call'		
5	Enter/select MMSI of EUT		
6	Cause QE2 to send the call		
7	Verify that one of the calls in the EUT is active and the other one is on hold	Yes	No
8	Verify voice communication over the active call	Yes	No
9	Verify that the display of automated procedures on hold in the EUT may be requested by a simple button press or selection	Yes	No
10	Verify that the operator is able to activate on the EUT a displayed automated procedure on hold by a single action, meaning a button press or menu item selection	Yes	No
11	Activate the call on hold on the EUT		
12	Verify that after the call on hold has been activated, the other call changes to held state	Yes	No
13	Verify voice communication over the active call	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_MAP_0002		
Summary:	'Handling of an initiated simultaneous new procedure'		
Configuration:	CF_MF_4 and CF_HF_4		
References:	ETSI EN 300 338-2 [1], clause 6.9		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Safety Call'		
2	Enter/select MMSI of QE1		
3	Cause EUT to send the call		
4	Verify that the EUT allows to place the current call on hold	Yes	No
5	On EUT place the current call on hold, then select 'Call' and select 'Routine Call'		
6	Enter/select MMSI of QE1		
7	Cause EUT to send the call		
8	Verify voice communication over the active call	Yes	No
9	Verify that the display of automated procedures on hold in the EUT may be requested by a simple button press or selection	Yes	No
10	Verify that the operator is able to activate on the EUT a displayed automated procedure on hold by a single action, meaning a button press or menu item selection	Yes	No
11	Activate the call on hold on the EUT		
12	Verify that after the call on hold has been activated, the other call changes to held state	Yes	No
13	Verify voice communication over the active call	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_MAP_0003		
Summary:	'Testing of the minimum required simultaneous automated procedures handling capacity'		
Configuration:	CF_MF_2 and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clause 6.9		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Routine Call'		
2	Enter/select MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
3	On EUT select 'Call' then select 'Safety Call'		
4	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
5	On EUT select 'Call' then select 'Urgency Call'		
6	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
7	On EUT initiate 'Individual Distress Call'		
8	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
9	On EUT select 'Call' then select 'Safety Call'		
10	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
11	On EUT select 'Call' then select 'Urgency Call'		
12	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
13	On EUT initiate 'Individual Distress Call'		
14	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
15	On EUT select 'Call' then select 'Routine Call'		
16	Enter/select MMSI of QE1 and cause EUT to send the call		
17	Verify that QE1 receives the call	Yes	No
18	Acknowledge the call from QE1		
19	Verify that all previous seven calls are still on hold, i.e. they are being displayed in list of calls being held, and furthermore each of them is being in 'Waiting for Acknowledgement' sub-stage	Yes	No
20	Verify voice communication over the active call	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_MAP_0004		
Summary:	'Testing of the limits on simultaneous automated procedures handling capacity'		
Configuration:	CF_MF_2 and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clause 6.9		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	If the EUT can handle more than the required minimum number of simultaneous automated procedures, verify that the EUT provides a setup option where the operator can set this capacity limit value to seven or higher	Yes	No
2	If the EUT can handle more than the required minimum number of simultaneous automated procedures, set this capacity limit value to seven		
3	On EUT select 'Call' then select 'Routine Call'		
4	Enter/select MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
5	On EUT select 'Call' then select 'Safety Call'		
6	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
7	On EUT select 'Call' then select 'Urgency Call'		
8	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
9	On EUT initiate 'Individual Distress Call'		
10	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
11	On EUT select 'Call' then select 'Safety Call'		
12	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
13	On EUT select 'Call' then select 'Urgency Call'		
14	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
15	On EUT initiate 'Individual Distress Call'		
16	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
17	On EUT select 'Call' then select 'Routine Call'		
18	Enter/select MMSI of QE1 and cause EUT to send the call		
19	Verify that the EUT generates a warning stating that an automated procedure needs to be terminated	Yes	No
20	Verify that that the EUT does not offer the option of starting any new automated procedure, except for the sending of own distress alarm	Yes	No
21	On EUT push the Distress Button		
22	Release the distress button after the countdown is complete		
23	Verify that QE1 receives the EUT's Distress Alert	Yes	No
24	On QE1 acknowledge the EUT's alarm		
25	Verify voice communication between the EUT and QE1	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_MAP_0005		
Summary:	'Testing of priority handling when exceeding the limits on simultaneous automated procedures handling capacity'		
Configuration:	CF_MF_4 and CF_HF_4		
References:	ETSI EN 300 338-2 [1], clause 6.9		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	If the EUT can handle more than the required minimum number of simultaneous automated procedures, set this capacity limit value to seven		
2	On EUT select 'Call' then select 'Urgency Call'		
3	Enter/select MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
4	On EUT select 'Call' then select 'Safety Call'		
5	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
6	On EUT select 'Call' then select 'Routine Call'		
7	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
8	On EUT initiate 'Individual Distress Call'		
9	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
10	On EUT select 'Call' then select 'Safety Call'		
11	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
12	On EUT select 'Call' then select 'Urgency Call'		
13	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
14	On EUT initiate 'Individual Distress Call'		
15	Enter/select a new MMSI of an unexisting radio, cause EUT to send the call, and place the procedure on hold		
16	On EUT select 'Call' then select 'Routine Call'		
17	Enter/select MMSI of QE1 and cause EUT to send the call		
18	Verify that the EUT generates a warning stating that an automated procedure needs to be terminated	Yes	No
19	On QE2 select 'Call' then select 'Routine Call'		
20	On QE2 enter/select MMSI of the EUT and cause QE2 to send the call		
21	Verify that the EUT receives QE2's Routine Call	Yes	No
22	On EUT answer QE2's Routine Call		
23	Verify voice communication between EUT and QE2	Yes	No
24	Verify that with the first Routine call, which has been initiated through steps 6-7, has been removed from the list of held calls while all other calls are still on hold, i.e. they are being displayed in list of calls being held	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_MAP_0006		
Summary:	'Testing of simultaneous automated procedures handling during held state'		
Configuration:	CF_MF_4 and CF_HF_4		
References:	ETSI EN 300 338-2 [1], clause 6.9		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Routine Call'		
2	Enter/select MMSI of QE1 and cause EUT to send the call		
3	On QE2 select 'Call' then select 'Routine Call'		
4	On QE2 enter/select MMSI of the EUT and cause QE2 to send the call		
5	On the EUT acknowledge and answer QE2's Routine Call		
6	Verify that the previous call to QE1 is now on hold, i.e. it is being displayed in list of calls being held, and furthermore that it is being in 'Waiting for Acknowledgement' sub-stage	Yes	No
7	On QE1 acknowledge the EUT's Routine call		
8	Verify that the previous call to QE1 is still on hold, i.e. it is being displayed in list of calls being held, and furthermore that it is being in 'Acknowledged' sub-stage	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_MAP_0007		
Summary:	'Testing of having only a single automated procedure at a time'		
Configuration:	CF_MF_4 and CF_HF_4		
References:	ETSI EN 300 338-2 [1], clause 6.9		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Routine Call'		
2	Enter/select MMSI of QE1 and cause EUT to send the call		
3	On QE1 acknowledge and answer the EUT's Routine call		
4	On QE2 select 'Call' then select 'Routine Call'		
5	On QE2 enter/select MMSI of the EUT and cause QE2 to send the call		
6	On the EUT acknowledge and answer QE2's Routine Call		
7	Verify that the previous call to QE1 is now on hold, i.e. it is being displayed in list of calls being held	Yes	No
8	On QE2 terminate the EUT's Routine call		
9	Verify that the previous call to QE1 is now in active state	Yes	No
10	Verify voice communication between EUT and QE1	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_MFHF_MAP_0008		
Summary:	'Testing of automated termination of completed procedures'		
Configuration:	CF_MF_4 and CF_HF_4		
References:	ETSI EN 300 338-2 [1], clause 6.9		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 disable the auto acknowledge feature		
2	On EUT select 'Call' then select 'Test Call'		
3	Enter/select MMSI of QE1 and cause EUT to send the call		
4	On QE2 select 'Call' then select 'Routine Call'		
5	On QE2 enter/select MMSI of the EUT and cause QE2 to send the call		
6	On the EUT acknowledge and answer QE2's Routine Call		
7	Verify that the Test call to QE1 is now on hold, i.e. it is being displayed in list of calls being held	Yes	No
8	On QE1 acknowledge the EUT's Test call		
9	Verify that the Test call to QE1 has been terminated, i.e. it is not being displayed in list of calls being held	Yes	No
Final verdict:			

8 Interface and other functions, all radios

8.1 General Tests

Interoperability Test Description			
Identifier:	TD_DSC_IF_GEN_0001		
Summary:	Primary DSC alphanumeric display test		
Configuration:	CF_VHF_1, CF_MF_1, and CF_HF_1		
References:	ETSI EN 300 338-2 [1], clause 4.1.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Verify that EUT displays at a minimum a total number of 160 characters	Yes	No
2	Verify that on the EUT that any displayed information is static	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_IF_GEN_0002		
Summary:	Displaying all the user programmable information content of a DSC call		
Configuration:	CF_VHF_1, CF_MF_1, and CF_HF_1		
References:	ETSI EN 300 338-2 [1], clause 6.3		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Verify that EUT is capable of displaying its station MMSI	Yes	No
2	Verify that EUT is capable of displaying its latest position of the vessel	Yes	No
3	Verify that EUT is capable of displaying the UTC time of its latest position	Yes	No
Final verdict:			

8.2 Alarms in standby mode

Interoperability Test Description			
Identifier:	TD_DSC_IF_ASM_0001		
Summary:	Visual and aural alarm for Distress count		
Configuration:	CF_VHF_3, CF_MF_2, and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clauses 6.2.3 and C.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT push Distress Button		
2	Verify that EUT sounds the countdown alarm	Yes	No
3	Verify that EUT has stopped the alarm when QE1 receives the alert	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_IF_ASM_0002		
Summary:	Visual and aural alarm for Distress alert - Timeout cancellation		
Configuration:	CF_VHF_3, CF_MF_2, and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clauses 6.2.3 and C.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 push Distress Button		
2	Release the distress button after the countdown is complete		
3	Verify that EUT receives the alert	Yes	No
4	Verify that EUT provides both a visual and aural alarm component	Yes	No
5	Verify that EUT provides the reason for the alarm	Yes	No
6	Verify that EUT initially is of a loudness that is clearly distinguishable for first 10 seconds	Yes	No
7	Verify that EUT's alarm starts softly to rise within next 10 seconds	Yes	No
8	Do not cancel the alarm manually		
9	Verify that EUT cancels the alarm automatically after 2 minutes	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_IF_ASM_0003		
Summary:	Visual and aural alarm for Distress alert - Manual cancellation		
Configuration:	CF_VHF_3, CF_MF_2, and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clauses 6.2.3 and C.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 push Distress Button		
2	Release the distress button after the countdown is complete		
3	Verify that EUT receives the alert	Yes	No
4	Verify that EUT provides both a visual and aural alarm component	Yes	No
5	Verify that EUT provides the reason for the alarm	Yes	No
6	Verify that EUT initially is of a loudness that is clearly distinguishable for first 10 seconds	Yes	No
7	Verify that EUT's alarm starts softly to rise within next 10 seconds	Yes	No
8	Cancel the alarm manually		
9	Verify that EUT stops visual and aural alarm component	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_IF_ASM_0004		
Summary:	Visual and aural alarm for Distress acknowledgement - Timeout cancellation		
Configuration:	CF_VHF_3, CF_MF_2, and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clauses 6.2.3 and C.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT push Distress Button		
2	Release the distress button after the countdown is complete		
3	Verify that QE1 receives the alert	Yes	No
4	Cause QE1 to acknowledge the alert		
5	Verify that EUT sounds and displays the distress ack alarm	Yes	No
6	Do not cancel the alarm manually		
7	Verify that EUT cancels the alarm automatically after 2 minutes	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_IF_ASM_0005		
Summary:	Visual and aural alarm for Distress acknowledgement - Manual cancellation		
Configuration:	CF_VHF_3, CF_MF_2, and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clauses 6.2.3 and C.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT push Distress Button		
2	Release the distress button after the countdown is complete		
3	Verify that QE1 receives the alert	Yes	No
4	Cause QE1 to acknowledge the alert		
5	Verify that EUT sounds and displays the distress ack alarm	Yes	No
6	Cancel the alarm manually		
7	Verify that EUT stops visual and aural alarm component	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_IF_ASM_0006		
Summary:	Visual and aural alarm for Distress relay RT Individual - Manual cancellation		
Configuration:	CF_VHF_4, CF_MF_3, and CF_HF_3		
References:	ETSI EN 300 338-2 [1], clauses 6.2.3 and C.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE2 push Distress Button		
2	Release the distress button after the countdown is complete		
3	Verify that QE1 receives the alert and cause it to relay the alert to EUT	Yes	No
4	Verify that EUT receives the alert	Yes	No
5	Verify that EUT provides both a visual and aural alarm component	Yes	No
6	Verify that EUT provides the reason for the alarm	Yes	No
7	Verify that EUT initially is of a loudness that is clearly distinguishable for first 10 seconds	Yes	No
8	Verify that EUT's alarm starts softly to rise within next 10 seconds	Yes	No
9	Cancel the alarm manually		
10	Verify that EUT stops visual and aural alarm component	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_IF_ASM_0007		
Summary:	Visual and aural alarm for Distress relay RT Geographical Area - Manual cancellation		
Configuration:	CF_VHF_4, CF_MF_3, and CF_HF_3		
References:	ETSI EN 300 338-2 [1], clauses 6.2.3 and C.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE2 push Distress Button		
2	Release the distress button after the countdown is complete		
3	Verify that QE1 receives the alert and cause it to relay the alert to 'Geographical Area' address	Yes	No
4	Verify that EUT receives the alert	Yes	No
5	Verify that EUT provides both a visual and aural alarm component	Yes	No
6	Verify that EUT provides the reason for the alarm	Yes	No
7	Verify that EUT initially is of a loudness that is clearly distinguishable for first 10 seconds	Yes	No
8	Verify that EUT's alarm starts softly to rise within next 10 seconds	Yes	No
9	Cancel the alarm manually		
10	Verify that EUT stops visual and aural alarm component	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_IF_ASM_0008		
Summary:	Visual and aural alarm for Distress relay ACK Individual - Manual cancellation		
Configuration:	CF_VHF_6, CF_MF_5, and CF_HF_5		
References:	ETSI EN 300 338-2 [1], clauses 6.2.3 and C.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE3 push Distress Button		
2	Release the distress button after the countdown is complete		
3	Verify that QE2 receives the alert and cause it to relay the alert to 'Geographical Area' address		
4	Verify that QE1 receives the alert relay		
5	Cause QE1 to acknowledge the alert relay		
6	Verify that EUT sounds and displays the distress ack alarm	Yes	No
7	Cancel the alarm manually		
8	Verify that EUT stops visual and aural alarm component	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_IF_ASM_0009		
Summary:	Visual and aural alarm for 'Geographical Area RT call- Urgency' - Timeout cancellation		
Configuration:	CF_VHF_3, CF_MF_2, and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clauses 6.2.3 and C.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Geographical Area - Urgency'		
2	Accept the proposed channel		
3	Cause QE1 to send the call		
4	Verify that EUT receives the call	Yes	No
5	Verify that EUT provides both a visual and aural alarm component	Yes	No
6	Verify that EUT's alarm starts softly to rise within next 10 seconds	Yes	No
7	Verify that EUT provides the reason for the alarm	Yes	No
8	Verify that EUT cancels the alarm automatically after 2 minutes	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_IF_ASM_0010		
Summary:	Visual and aural alarm for 'Geographical Area RT call- Urgency' - Manual cancellation		
Configuration:	CF_VHF_3, CF_MF_2, and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clauses 6.2.3 and C.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Geographical Area - Urgency'		
2	Accept the proposed channel		
3	Cause QE1 to send the call		
4	Verify that EUT receives the call	Yes	No
5	Verify that EUT provides both a visual and aural alarm component	Yes	No
6	Verify that EUT provides the reason for the alarm	Yes	No
7	Verify that EUT's alarm starts softly to rise within next 10 seconds	Yes	No
8	Cancel the alarm manually		
9	Verify that EUT stops visual and aural alarm component	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_IF_ASM_0011		
Summary:	Visual and aural alarm for 'Geographical Area RT call - Safety' - Automatic cancellation		
Configuration:	CF_VHF_3, CF_MF_2, and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clauses 6.2.3 and C.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Geographical Area - Safety'		
2	Accept the proposed channel		
3	Cause QE1 to send the call		
4	Verify that EUT receives the call	Yes	No
5	Verify that EUT provides both a visual and aural alarm component	Yes	No
6	Verify that EUT's alarm starts softly to rise within next 10 seconds	Yes	No
7	Verify that EUT provides the reason for the alarm	Yes	No
8	Verify that EUT cancels the alarm automatically	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_IF_ASM_0012		
Summary:	Visual and aural alarm for 'Individual RT call - Urgency' - Timeout cancellation		
Configuration:	CF_VHF_3, CF_MF_2, and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clauses 6.2.3 and C.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Individual - Urgency'		
2	Accept the proposed channel		
3	Enter/select MMSI of EUT		
4	Accept the proposed channel		
5	Cause QE1 to send the call to EUT		
6	Verify that EUT receives the call	Yes	No
7	Verify that EUT provides both a visual and aural alarm component	Yes	No
8	Verify that EUT's alarm starts softly to rise within next 10 seconds	Yes	No
9	Verify that EUT provides the reason for the alarm	Yes	No
10	Verify that EUT cancels the alarm automatically after 2 minutes	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_IF_ASM_0013		
Summary:	Visual and aural alarm for 'Individual RT call - Urgency' - Manual cancellation		
Configuration:	CF_VHF_3, CF_MF_2, and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clauses 6.2.3 and C.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Individual - Urgency'		
2	Accept the proposed channel		
3	Enter/select MMSI of EUT		
4	Accept the proposed channel		
5	Cause QE1 to send the call to EUT		
6	Verify that EUT receives the call	Yes	No
7	Verify that EUT provides both a visual and aural alarm component	Yes	No
8	Verify that EUT provides the reason for the alarm	Yes	No
9	Verify that EUT's alarm starts softly to rise within next 10 seconds	Yes	No
10	Cancel the alarm manually		
11	Verify that EUT stops visual and aural alarm component	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_IF_ASM_0014		
Summary:	Visual and aural alarm for 'Individual RT call - Safety' - Automatic cancellation		
Configuration:	CF_VHF_3, CF_MF_2, and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clauses 6.2.3 and C.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Individual - Safety'		
2	Accept the proposed channel		
3	Enter/select MMSI of EUT		
4	Accept the proposed channel		
5	Cause QE1 to send the call to EUT		
6	Verify that EUT receives the call	Yes	No
7	Verify that EUT provides both a visual and aural alarm component	Yes	No
8	Verify that EUT's alarm starts softly to rise within next 10 seconds	Yes	No
9	Verify that EUT provides the reason for the alarm	Yes	No
10	Verify that EUT cancels the alarm automatically	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_IF_ASM_0015		
Summary:	Visual and aural alarm for Individual test call -Safety		
Configuration:	CF_VHF_3, CF_MF_2, and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clauses 6.2.3 and C.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Test - Safety'		
2	Enter/select MMSI of EUT		
3	Accept the proposed channel		
4	Cause QE1 to send the individual call to EUT		
5	Verify that EUT receives the call	Yes	No
6	Verify that EUT provides both a visual and aural alarm component	Yes	No
7	Verify that EUT provides the reason for the alarm	Yes	No
8	Verify that EUT cancels the alarm automatically	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_IF_ASM_0016		
Summary:	Visual and aural alarm for Individual test call ACK -Safety		
Configuration:	CF_VHF_3, CF_MF_2, and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clauses 6.2.3 and C.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Test - Safety'		
2	Enter/select MMSI of QE1		
3	Accept the proposed channel		
4	Cause EUT to send the individual call to QE1		
5	Verify that QE1 receives the call	Yes	No
6	Cause QE1 to acknowledge the call		
7	Verify that EUT sounds and displays the ack alarm	Yes	No
8	Verify that EUT cancels the alarm automatically	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_IF_ASM_0017		
Summary:	Visual and aural alarm for Group call - Routine		
Configuration:	CF_VHF_3, CF_MF_2, and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clauses 6.2.3 and C.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Group Call'		
2	Enter/select Group MMSI to which EUT belongs		
3	Accept the proposed channel		
4	Cause QE1 to send the individual call to EUT		
5	Verify that EUT receives the call	Yes	No
6	Verify that EUT provides both a visual and aural alarm component	Yes	No
7	Verify that EUT provides the reason for the alarm	Yes	No
8	Verify that EUT cancels the alarm automatically	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_IF_ASM_0018		
Summary:	Visual and aural alarm for Individual call - Routine		
Configuration:	CF_VHF_3, CF_MF_2, and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clauses 6.2.3 and C.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Individual - Routine'		
2	Enter/select MMSI of EUT		
3	Accept the proposed channel		
4	Cause QE1 to send the individual call to EUT		
5	Verify that EUT receives the call	Yes	No
6	Verify that EUT provides both a visual and aural alarm component	Yes	No
7	Verify that EUT provides the reason for the alarm	Yes	No
8	Verify that EUT cancels the alarm automatically	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_IF_ASM_0019		
Summary:	Visual and aural alarm for Individual call ACK -Safety		
Configuration:	CF_VHF_3, CF_MF_2, and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clauses 6.2.3 and C.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Individual - Routine'		
2	Enter/select MMSI of QE1		
3	Accept the proposed channel		
4	Cause EUT to send the individual call to QE1		
5	Verify that QE1 receives the call	Yes	No
6	Cause QE1 to acknowledge the call		
7	Verify that EUT sounds and displays the ack alarm	Yes	No
8	Verify that EUT cancels the alarm automatically	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_IF_ASM_0020		
Summary:	Visual and aural alarm for Distress Alert Cancel - Timeout cancellation		
Configuration:	CF_VHF_3, CF_MF_2, and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clauses 6.2.3 and C.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 push Distress Button		
2	Release the distress button after the countdown is complete		
3	Verify that EUT receives the alert	Yes	No
4	Cause QE1 to cancel the alert		
5	Verify that EUT provides both a visual and aural alarm cancellation component	Yes	No
6	Verify that EUT cancels the alarm automatically after 2 minutes	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_IF_ASM_0021		
Summary:	Visual and aural alarm for Distress Alert Cancel - Manual cancellation		
Configuration:	CF_VHF_3, CF_MF_2, and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clauses 6.2.3 and C.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 push Distress Button		
2	Release the distress button after the countdown is complete		
3	Verify that EUT receives the alert	Yes	No
4	Cause QE1 to cancel the alert		
5	Verify that EUT provides both a visual and aural alarm cancellation component	Yes	No
6	Cancel the alarm manually		
7	Verify that EUT stops visual and aural alarm component	Yes	No
Final verdict:			

8.3 Alarms when busy

Interoperability Test Description			
Identifier:	TD_DSC_IF_AWB_0001		
Summary:	Visual and aural alarm for Distress alert when EUT busy - initiator		
Configuration:	CF_VHF_3, CF_MF_2, and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clause 6.9.2.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On EUT select 'Call' then select 'Individual - Routine'		
2	Enter/select MMSI of QE1		
3	Accept the proposed channel		
4	Cause EUT to send the individual call to QE1		
5	Verify that QE1 receives the call	Yes	No
6	On QE1 push Distress Button		
7	Release the distress button after the countdown is complete		
8	Verify that EUT sounds the two-tone alarm	Yes	No
9	Do not accept the distress call		
10	Verify that EUT starts a distress call, which is put on hold	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_IF_AWB_0002		
Summary:	Visual and aural alarm for Distress alert when EUT busy - receiver		
Configuration:	CF_VHF_3, CF_MF_2, and CF_HF_2		
References:	ETSI EN 300 338-2 [1], clause 6.9.2.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Individual - Routine'		
2	Enter/select MMSI of EUT		
3	Accept the proposed channel		
4	Cause QE1 to send the individual call to EUT		
5	Verify that EUT receives the call	Yes	No
6	On QE1 push Distress Button		
7	Release the distress button after the countdown is complete		
8	Verify that EUT sounds the discrete audible alarm and displays distress information	Yes	No
9	Do not accept the distress call		
10	Verify that EUT starts a distress call, which is put on hold	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_IF_AWB_0003		
Summary:	Logging and Aural alarm for lower priority call when EUT busy - receiver		
Configuration:	CF_VHF_5, CF_MF_4, and CF_HF_4		
References:	ETSI EN 300 338-2 [1], clause 6.9.2.1		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 push Distress Button		
2	Release the distress button after the countdown is complete		
3	Verify that EUT receives the alert	Yes	No
4	On QE2 select 'Call' then select 'Individual - Routine'		
5	Enter/select MMSI of EUT		
6	Accept the proposed channel		
7	Cause QE2 to send the individual call to EUT		
8	Verify that EUT sounds the discrete audible alarm	Yes	No
9	Verify that EUT initiates an automatic procedure on hold	Yes	No
Final verdict:			

8.4 Standby mode interface functions

Interoperability Test Description			
Identifier:	TD_DSC_IF_SMIF_0001		
Summary:	Availability of Distress button during standby mode		
Configuration:	CF_VHF_1, CF_MF_1, CF_HF_1		
References:	ETSI EN 300 338-2 [1], clause 6.3		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Verify that EUT has a dedicated distress button available either as a dedicated and labelled 'Distress' button or as a top-level soft-button on a touchscreen.	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_IF_SMIF_0002		
Summary:	Availability of means to compose a non-distress DSC message during standby mode		
Configuration:	CF_VHF_1, CF_MF_1, CF_HF_1		
References:	ETSI EN 300 338-2 [1], clause 6.3		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Verify that EUT has clearly labelled means to compose/send a non-distress DSC message	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_IF_SMIF_0003		
Summary:	Availability of required functions via a maximum of two menu layers during standby mode		
Configuration:	CF_VHF_1, CF_MF_1, CF_HF_1		
References:	ETSI EN 300 338-2 [1], clause 6.3		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Verify that EUT's MMSI information can be accessed via a maximum of two menu layers from the top-level	Yes	No
2	Verify that EUT's latest position can be viewed via a maximum of two menu layers from the top-level	Yes	No
3	Verify that the UTC acquisition time of the EUT's latest position can be viewed via a maximum of two menu layers from the top-level	Yes	No
4	Verify that a clearly labelled means to compose a distress alert can be accessed in the EUT via a maximum of two menu layers from the top-level	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_IF_SMIF_0004		
Summary:	Availability of required configuration options and timers		
Configuration:	CF_VHF_1, CF_MF_1, CF_HF_1		
References:	ETSI EN 300 338-2 [1], clause 6.3		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Verify that EUT provides the option to auto acknowledge test DSC messages, being set to 'on' by default	Yes	No
2	Verify that the above option is being set to 'on' by default	Yes	No
3	Verify that EUT provides the option to auto acknowledge individually addressed, non-distress DSC messages	Yes	No
4	Verify that the above option is being set to 'off' by default	Yes	No
5	Verify that EUT provides the option to set the no activity timeout to exit any non-automated procedure activity to some value that includes no timeout	Yes	No
6	Verify that the above option is being set to '10 minutes' by default	Yes	No
7	Verify that EUT provides the option to set the no activity timeout of non-distress DSC automated procedures to some value that includes no timeout	Yes	No
8	Verify that the above option is being set to '15 minutes' by default	Yes	No
9	Verify that EUT provides the option to set the no activity timeout of received distress DSC automated procedures to some value that includes no timeout	Yes	No
10	Verify that the above option is being set to 'no timeout' by default	Yes	No
11	Verify that EUT does not provide any option to set any timeout of the unacknowledged sending distress automated procedure	Yes	No
12	Verify that EUT provides the option to set the no activity timeout of communications automated procedures to some value in the range [10 seconds to 10 minutes]	Yes	No
13	Verify that the above option is being set to '30 seconds' by default	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_IF_SMIF_0005		
Summary:	Availability of required DSC distress activity recording		
Configuration:	CF_VHF_1, CF_MF_1, CF_HF_1		
References:	ETSI EN 300 338-2 [1], clause 6.3		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 push Distress Button		
2	Release the distress button after the countdown is complete		
3	Execute this distress sending procedure twenty times, waiting at least 5 seconds between subsequent repetitions.		
4	Verify that EUT provides the record of all twenty DSC distress messages, where each distress alert attempt is recorded as a single message	Yes	No
5	Verify that EUT provides the UTC time of reception date for each of the above message records	Yes	No
6	Verify that EUT provides the information content of the DSC message for each of the above message records	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_IF_SMIF_0006		
Summary:	Availability of required DSC non-distress activity recording		
Configuration:	CF_VHF_1, CF_MF_1, CF_HF_1		
References:	ETSI EN 300 338-2 [1], clause 6.3		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	On QE1 select 'Call' then select 'Individual - Routine'		
2	Enter/select MMSI of EUT		
3	Accept the proposed channel		
4	Cause QE1 to send the individual call to EUT		
5	Repeat the above steps 1-4 nineteen times, so that twenty calls have been made in total		
6	Verify that EUT provides the record of all twenty DSC non-distress messages, where each call data is recorded as a single message	Yes	No
7	Verify that EUT provides the UTC time of reception date for each of the above message records	Yes	No
8	Verify that EUT provides the information content of the DSC message for each of the above message records	Yes	No
Final verdict:			

8.5 Timeout interface functions

Interoperability Test Description			
Identifier:	TD_DSC_VHF_TIF_0001		
Summary:	Timeout testing of Individual call automated procedure		
Configuration:	CF_VHF_1, CF_MF_1, CF_HF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.5.3 and 6.5.10		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Set the no activity timeout of non-distress DSC automated procedure to some value in the range [10 seconds to 10 minutes]		
2	Cause the TE to send an Individual routine call to the EUT		
3	Wait until the no activity timer defined in step 1 almost expires		
4	Verify that at least 10 seconds prior to automated termination a visual and aural warning is given by the EUT, indicating the nearing no activity timeout	Yes	No
5	Verify that the EUT provides the means to silence the above alarm	Yes	No
6	Verify that the EUT provides the means to stop the upcoming 'no activity termination' of the automated procedure	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_TIF_0002		
Summary:	Timeout testing of Individual safety call automated procedure		
Configuration:	CF_VHF_1, CF_MF_1, CF_HF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.5.3 and 6.5.10		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Set the no activity timeout of non-distress DSC automated procedure to some value in the range [10 seconds to 10 minutes]		
2	Cause the TE to send an Individual safety call to the EUT		
3	Wait until the no activity timer defined in step 1 almost expires		
4	Verify that at least 10 seconds prior to automated termination a visual and aural warning is given by the EUT, indicating the nearing no activity timeout	Yes	No
5	Verify that the EUT provides the means to silence the above alarm	Yes	No
6	Verify that the EUT provides the means to stop the upcoming 'no activity termination' of the automated procedure	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_TIF_0003		
Summary:	Timeout testing of All ships safety call automated procedure		
Configuration:	CF_VHF_1, CF_MF_1, CF_HF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.5.3 and 6.5.10		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Set the no activity timeout of non-distress DSC automated procedure to some value in the range [10 seconds to 10 minutes]		
2	Cause the TE to send an All ships safety call		
3	Wait until the no activity timer defined in step 1 almost expires		
4	Verify that at least 10 seconds prior to automated termination a visual and aural warning is given by the EUT, indicating the nearing no activity timeout	Yes	No
5	Verify that the EUT provides the means to silence the above alarm	Yes	No
6	Verify that the EUT provides the means to stop the upcoming 'no activity termination' of the automated procedure	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_TIF_0004		
Summary:	Timeout testing of Individual Urgency call automated procedure		
Configuration:	CF_VHF_1, CF_MF_1, CF_HF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.5.3 and 6.5.10		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Set the no activity timeout of non-distress DSC automated procedure to some value in the range [10 seconds to 10 minutes]		
2	Cause the TE to send an Individual Urgency call to the EUT		
3	Wait until the no activity timer defined in step 1 almost expires		
4	Verify that at least 10 seconds prior to automated termination a visual and aural warning is given by the EUT, indicating the nearing no activity timeout	Yes	No
5	Verify that the EUT provides the means to silence the above alarm	Yes	No
6	Verify that the EUT provides the means to stop the upcoming 'no activity termination' of the automated procedure	Yes	No
Final verdict:			

Interoperability Test Description			
Identifier:	TD_DSC_VHF_TIF_0005		
Summary:	Timeout testing of All Ships Urgency call automated procedure		
Configuration:	CF_VHF_1, CF_MF_1, CF_HF_1		
References:	ETSI EN 300 338-2 [1], clauses 6.5.3 and 6.5.10		
Pre-test conditions:			
Step	**Test Sequence**	**Verdict**	
		Pass	**Fail**
1	Set the no activity timeout of non-distress DSC automated procedure to some value in the range [10 seconds to 10 minutes]		
2	Cause the TE to send an All Ships Urgency call		
3	Wait until the no activity timer defined in step 1 almost expires		
4	Verify that at least 10 seconds prior to automated termination a visual and aural warning is given by the EUT, indicating the nearing no activity timeout	Yes	No
5	Verify that the EUT provides the means to silence the above alarm	Yes	No
6	Verify that the EUT provides the means to stop the upcoming 'no activity termination' of the automated procedure	Yes	No
Final verdict:			

Annex A (informative): Bibliography

- ETSI ES 202 553: "Methods for testing and Specification (MTS); TPLan: A notation for expressing test Purposes".
- ETSI TS 102 351 (V2.1.1): "Methods for Testing and Specification (MTS); Internet Protocol Testing (IPT); IPv6 Testing: Methodology and Framework".
- ISO/IEC 9646-2: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 2: Abstract Test Suite specification".

History

Document history		
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