



Interoperability Testing for Maritime Digital Selective Calling (DSC) Radios; Part 3: Class D Test Descriptions

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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 3 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).

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1 Scope

The present document contains the Test Descriptions (TD) for interoperability testing of the class D 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.

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

- [1] ETSI EN 300 338-3: "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 3: Class D 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. ETSI EN 300 338-3 [1],

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) ConFfiguration |
| EUT | Equipment Under Test |
| MOB | Man Overboard |
| 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 mode for the equipment.

An arrow connection between devices indicates that these devices are in communication range, i.e. in CF_6 EUT, QE1 and QE2 are all in the same communication range. However, QE3 is only in communication range with QE2.

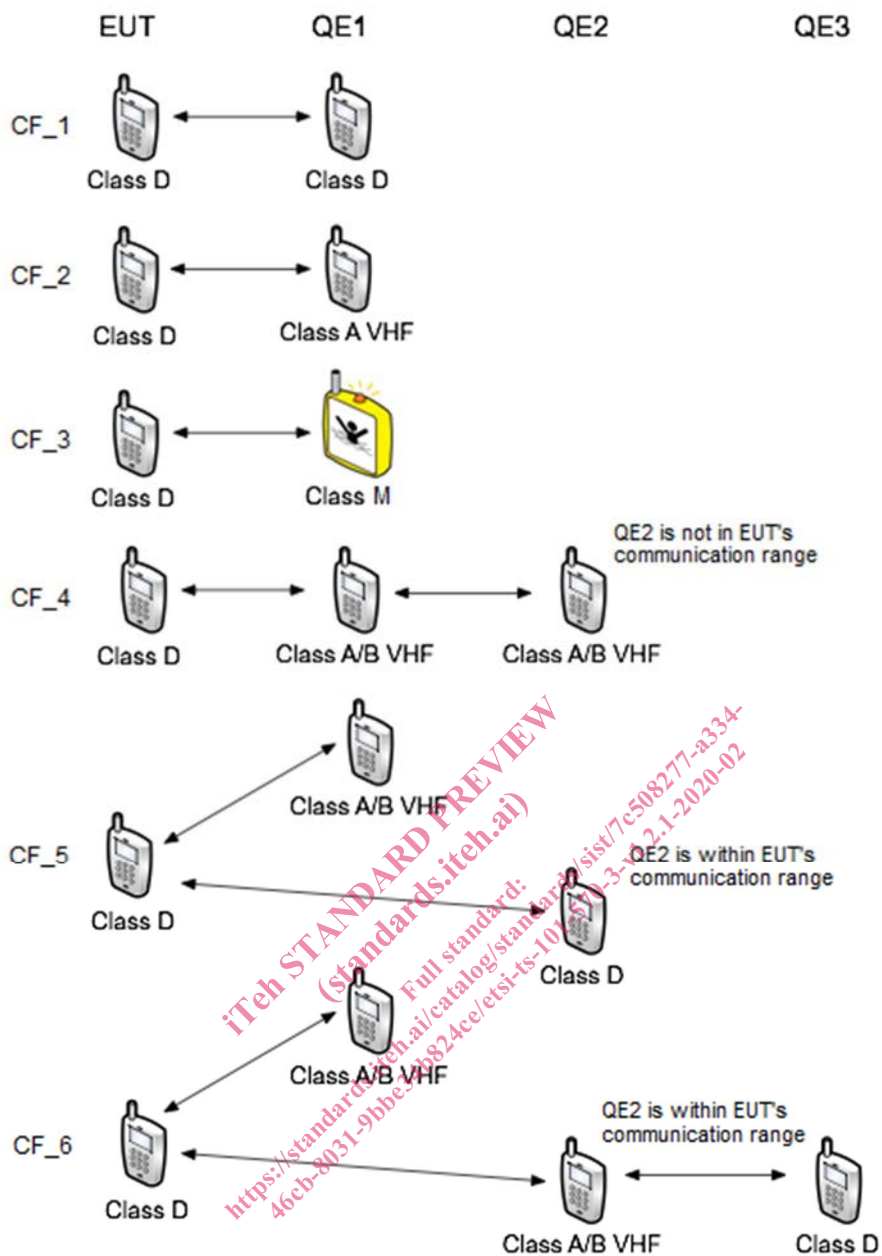


Figure 1: Configurations for Class D EUT

5 Test Suite Structure (TSS)

The following table shows the Test Suite Structure contained in the present document.

| 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) |
| | Non Distress Automated Procedures (NDAP) |
| | Other Calls (OC) |
| Interface and Other Functions (IOF) | General test (GEN) |
| | Alarms in standby mode (ASM) |
| | Alarms when busy (AWB) |
| | Standby mode interface functions (SMIF) |
| | |

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)

6.1 Individual Calls

| Interoperability Test Description | | | |
|-----------------------------------|---|---------|------|
| Identifier: | TD_DSC_VHF_IC_0001 | | |
| Summary: | 'Sending Individual call - Routine' | | |
| Configuration: | CF_1 | | |
| References: | ETSI EN 300 338-3 [1], clauses 5.2.2 and 6.6.1 | | |
| 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_1 | | |
| References: | ETSI EN 300 338-3 [1], clauses 5.2.2 and 6.6.1 | | |
| 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_2 | | |
| References: | ETSI EN 300 338-3 [1], clauses 5.2.2 and 6.6.1 | | |
| 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_0008 | | |
| Summary: | 'Receiving Individual call - Routine' | | |
| Configuration: | CF_2 | | |
| References: | ETSI EN 300 338-3 [1], clauses 5.2.2 and 6.7.1 | | |
| 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_2 | | |
| References: | ETSI EN 300 338-3 [1], clauses 5.2.2 and 6.7.1 | | |
| 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_2 | | |
| References: | ETSI EN 300 338-3 [1], clauses 5.2.2 and 6.7.1 | | |
| 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 'unread messages' | Yes | No |
| 8 | On EUT select 'Call' then 'Received Calls' 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_2 | | |
| References: | ETSI EN 300 338-3 [1], clauses 5.2.2 and 6.7.1 | | |
| 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_2 | | |
| References: | ETSI EN 300 338-3 [1], clauses 5.2.2 and 6.7.1 | | |
| 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_2 | | |
| References: | ETSI EN 300 338-3 [1], clauses 5.2.2 and 6.7.1 | | |
| 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_2 | | |
| References: | ETSI EN 300 338-3 [1], clauses 5.2.2 and 6.7.1 | | |
| 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_2 | | |
| References: | ETSI EN 300 338-3 [1], clauses 5.2.2 and 6.6.1 | | |
| 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 | 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: | | | |

6.2 Group Calls

| Interoperability Test Description | | | |
|-----------------------------------|---|---------|------|
| Identifier: | TD_DSC_VHF_GC_0001 | | |
| Summary: | 'Sending group call - Routine' | | |
| Configuration: | CF_2 | | |
| References: | ETSI EN 300 338-3 [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 Intership 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_2 | | |
| References: | ETSI EN 300 338-3 [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_2 | | |
| References: | ETSI EN 300 338-3 [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 individual call | | |
| 7 | Verify that EUT displays 'unread messages' | Yes | No |
| 8 | On EUT select 'Call' then 'Received Calls' and Verify that the call from QE2 is logged | Yes | No |
| Final verdict: | | | |