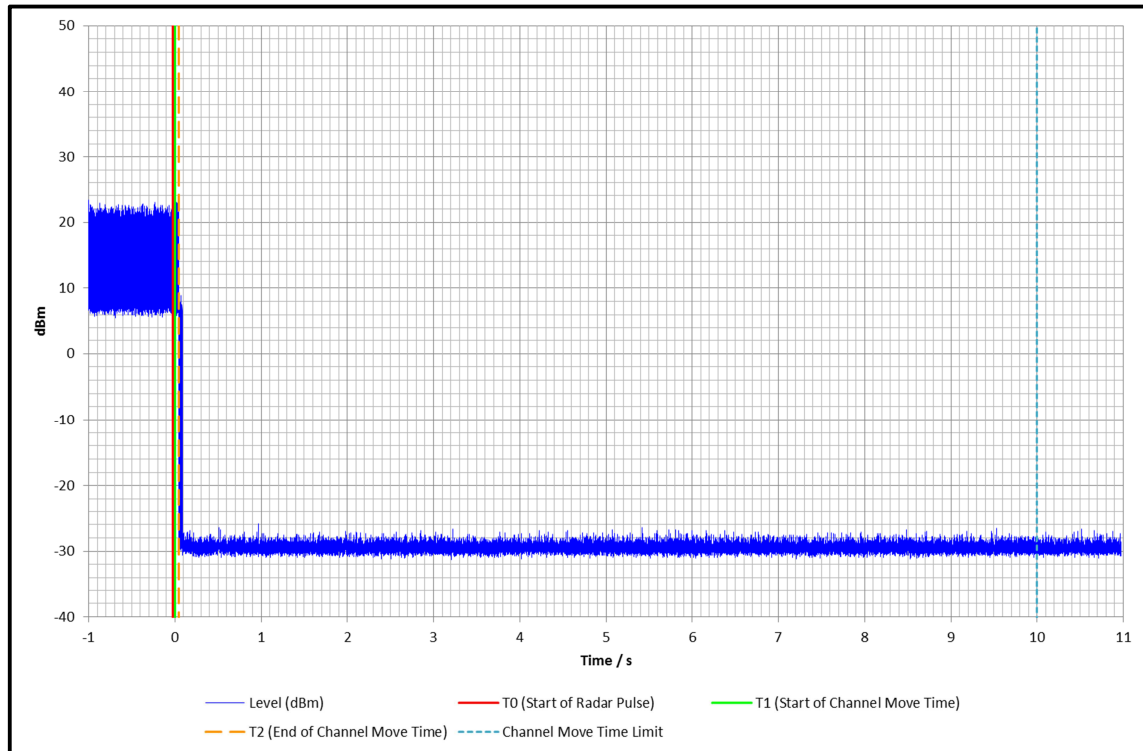
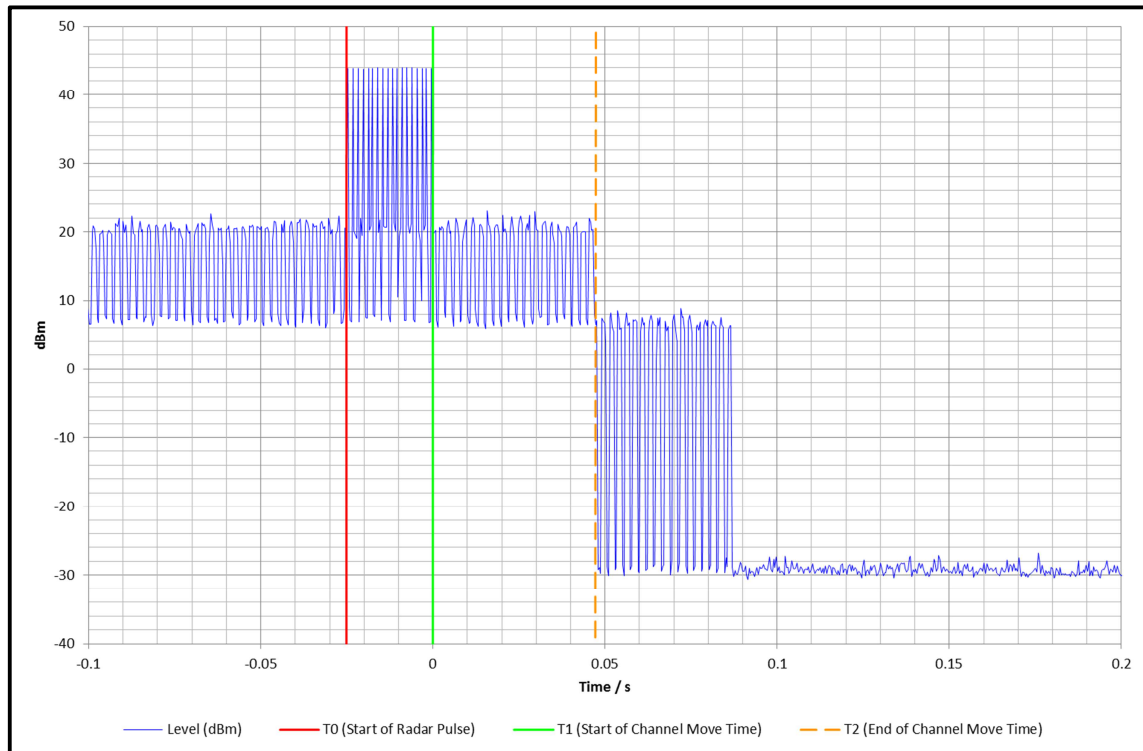


Channel Closing Transmission Time and Channel Move Time (continued)**Results: 45 MHz Client – Type 0 Radar Fired at Master**

Plot showing the full 10 second shutdown limit



Zoomed in plot showing the first 200 ms after the end of the type 0 radar burst

Channel Closing Transmission Time and Channel Move Time (continued)**Results: 45 MHz Client, Radar fired at Master - Channel Move Time**

Channel (MHz)	BW (MHz)	Trial	Radar Type	PW (uS)	PRF 1 (pps)	PPB	Move Time (ms)	Limit (ms)	Margin (ms)	Detected
5573	45	1	0	1	700	18	46.9	10000	9953.1	Yes

Results: 45 MHz Client, Radar fired at Master - Channel Closing Transmission Time

Channel (MHz)	BW (MHz)	Trial	Radar Type	PW (uS)	PRF 1 (pps)	PPB	Total Aggregate Tx Time (ms)	Limit (ms)	Margin (ms)	Tx Time >200 ms after end of radar (ms)	Limit (ms)	Margin (ms)
5573	45	1	0	1	700	18	30.0	260	230.0	0	60	60

Channel Closing Transmission Time and Channel Move Time (continued)**Limits:****FCC 15.407(h)(2)(iii)**

After a radar's presence is detected, all transmissions shall cease on the operating channel within 10 seconds. Transmissions during this period shall consist of normal traffic for a maximum of 200 ms after detection of the radar signal. In addition, intermittent management and control signals can be sent during the remaining time to facilitate vacating the operating channel.

KDB 905462 D02 Table 4: DFS Response Requirement Values

Parameter	Value
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
Note 1: <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.	
Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.	

5.2.6. Non-occupancy Period**Test Summary:**

Test Engineer:	Philip Harrison	Test Dates:	23 September 2015 & 24 September 2015
Test Sample Serial Numbers:	F52320580074 (<i>Master</i>) F52320580072 (<i>Client</i>)		

FCC Reference:	Part 15.407(h)(iv)
Test Method Used:	KDB 905462 D02 Section 7.8.3

Environmental Conditions:

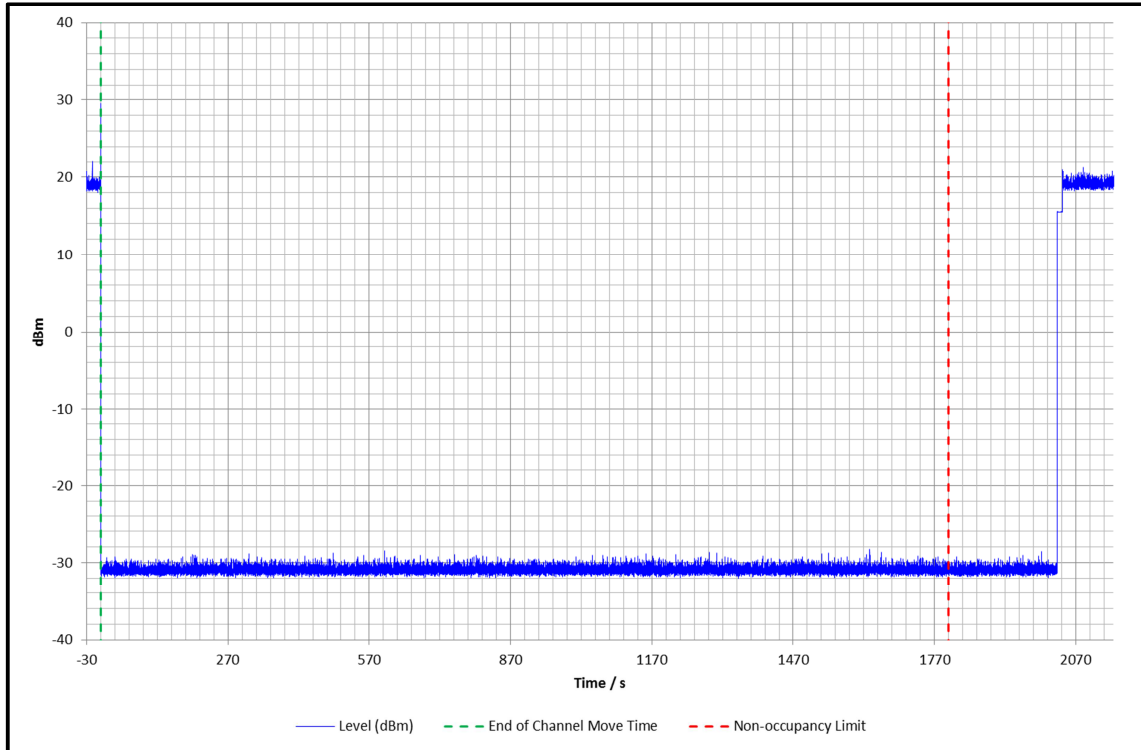
Temperature (°C):	24 to 25
Relative Humidity (%):	44 to 46

Notes:

1. In accordance with KDB 905462 D02 Table 2, the Initial Channel Availability Check test was performed on any single bandwidth. It was therefore tested only on a 45 MHz channel bandwidth.
2. Tests were performed using a type 0 radar and the radar detection threshold calculated in Section 4.2 of this test report.
3. Radar burst type 0 was detected and the channel was vacated for ≥ 30 minutes (1800 seconds) non-occupancy period. During this period all emissions remained below the -27 dBm spurious emissions limit. Therefore the EUT complied.

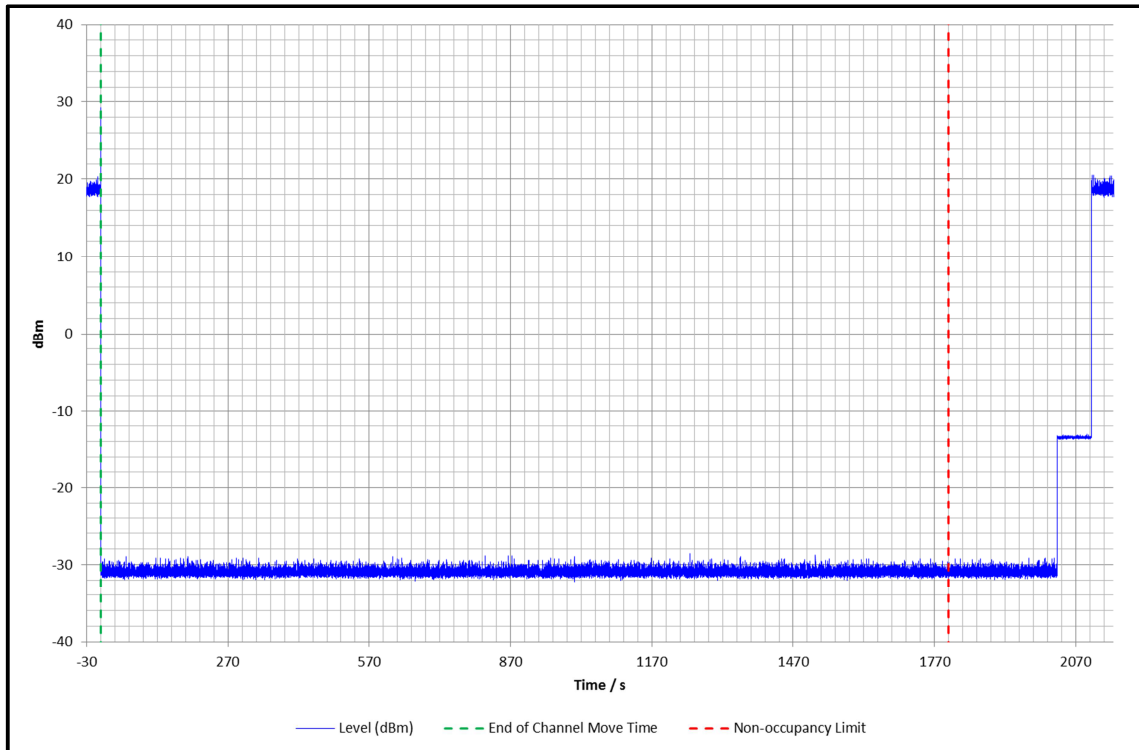
Non-occupancy Period (continued)**Results: 45 MHz Master – Type 0 Radar**

Channel (MHz)	BW (MHz)	Trial	Radar Type	Non-Occ. (minutes)	Limit (minutes)	Margin (minutes)	Result
5573	45	1	0	33.8	≥30	3.8	Complied



Non-occupancy Period (continued)**Results: 45 MHz Client – Type 0 Radar**

Channel (MHz)	BW (MHz)	Trial	Radar Type	Non-Occ (minutes)	Limit (minutes)	Margin (minutes)	Result
5573	45	1	0	35.1	≥30	5.1	Complied

**Limits:****FCC 15.407(h)(2)(iv)**

A channel that has been flagged as containing a radar system, either by a channel availability check or in-service monitoring, is subject to a non-occupancy period of at least 30 minutes. The non-occupancy period starts at the time when the radar system is detected.

KDB 905462 D02 Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes

5.2.7. Statistical Performance Check – Short Pulse Radar Types 1 - 4**Test Summary:**

Test Engineer:	Philip Harrison	Test Dates:	22 September 2015, 24 September 2015, 28 September 2015, 29 September 2015 & 30 September 2015
Test Sample Serial Numbers:	F52320580074 (<i>Master</i>) F52320580072 (<i>Client</i>)		

FCC Reference:	Part 15.407(h)(2)
Test Method Used:	KDB 905462 D02 Section 7.8.4.1

Environmental Conditions:

Temperature (°C):	24 to 28
Relative Humidity (%):	39 to 44

Notes:

1. In accordance with KDB 905462 D02 Table 2, the Statistical Performance Check test was performed on all bandwidths, in both Master, and Client with Radar Detection modes.
2. Tests were performed using the radar detection threshold calculated in Section 4.2 of this test report.
3. Parameters used for the short radar types 1, 2, 3, and 4 may be found in this test report Appendices 5, 6, 7, and 8 respectively.
4. The EUT met the required detection probability, and therefore complied with the *Statistical Performance Check – Short Pulse Radar Types 1 – 4* test.

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 5 MHz Master - Radar Type 1**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
1	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5593 MHz		
Radar Frequency:		5593 MHz		
Detection Probability:		100 %		

Results: 5 MHz Master - Radar Type 2

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
2	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5593 MHz		
Radar Frequency:		5593 MHz		
Detection Probability:		100 %		

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 5 MHz Master - Radar Type 3**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
3	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5593 MHz		
Radar Frequency:		5593 MHz		
Detection Probability:		100 %		

Results: 5 MHz Master - Radar Type 4

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
4	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5593 MHz		
Radar Frequency:		5593 MHz		
Detection Probability:		100 %		

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 10 MHz Master - Radar Type 1**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
1	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5595 MHz		
Radar Frequency:		5595 MHz		
Detection Probability:		100 %		

Results: 10 MHz Master - Radar Type 2

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
2	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5595 MHz		
Radar Frequency:		5595 MHz		
Detection Probability:		100 %		

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 10 MHz Master - Radar Type 3**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
3	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5595 MHz		
Radar Frequency:		5595 MHz		
Detection Probability:		100 %		

Results: 10 MHz Master - Radar Type 4

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
4	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5595 MHz		
Radar Frequency:		5595 MHz		
Detection Probability:		100 %		

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 15 MHz Master - Radar Type 1**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
1	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5588 MHz		
Radar Frequency:		5588 MHz		
Detection Probability:		100 %		

Results: 15 MHz Master - Radar Type 2

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
2	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5588 MHz		
Radar Frequency:		5588 MHz		
Detection Probability:		100 %		

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 15 MHz Master - Radar Type 3**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
3	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5588 MHz		
Radar Frequency:		5588 MHz		
Detection Probability:		100 %		

Results: 15 MHz Master - Radar Type 4

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
4	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5588 MHz		
Radar Frequency:		5588 MHz		
Detection Probability:		100 %		

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 20 MHz Master - Radar Type 1**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
1	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5590 MHz		
Radar Frequency:		5590 MHz		
Detection Probability:		100 %		

Results: 20 MHz Master - Radar Type 2

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
2	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5590 MHz		
Radar Frequency:		5590 MHz		
Detection Probability:		100 %		

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 20 MHz Master - Radar Type 3**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
3	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5590 MHz		
Radar Frequency:		5590 MHz		
Detection Probability:		100 %		

Results: 20 MHz Master - Radar Type 4

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
4	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5590 MHz		
Radar Frequency:		5590 MHz		
Detection Probability:		100 %		

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 30 MHz Master - Radar Type 1**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
1	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5585 MHz		
Radar Frequency:		5585 MHz		
Detection Probability:		100 %		

Results: 30 MHz Master - Radar Type 2

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
2	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5585 MHz		
Radar Frequency:		5585 MHz		
Detection Probability:		100 %		

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 30 MHz Master - Radar Type 3**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
3	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5585 MHz		
Radar Frequency:		5585 MHz		
Detection Probability:		100 %		

Results: 30 MHz Master - Radar Type 4

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
4	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5585 MHz		
Radar Frequency:		5585 MHz		
Detection Probability:		100 %		

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 40 MHz Master - Radar Type 1**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
1	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5580 MHz		
Radar Frequency:		5580 MHz		
Detection Probability:		100 %		

Results: 40 MHz Master - Radar Type 2

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
2	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5580 MHz		
Radar Frequency:		5580 MHz		
Detection Probability:		100 %		

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 40 MHz Master - Radar Type 3**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
3	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5580 MHz		
Radar Frequency:		5580 MHz		
Detection Probability:		100 %		

Results: 40 MHz Master - Radar Type 4

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
4	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5580 MHz		
Radar Frequency:		5580 MHz		
Detection Probability:		100 %		

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 45 MHz Master - Radar Type 1**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
1	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5573 MHz		
Radar Frequency:		5573 MHz		
Detection Probability:		100 %		

Results: 45 MHz Master - Radar Type 2

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
2	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5573 MHz		
Radar Frequency:		5573 MHz		
Detection Probability:		100 %		

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 45 MHz Master - Radar Type 3**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
3	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5573 MHz		
Radar Frequency:		5573 MHz		
Detection Probability:		100 %		

Results: 45 MHz Master - Radar Type 4

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
4	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5573 MHz		
Radar Frequency:		5573 MHz		
Detection Probability:		100 %		

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 5 MHz Client - Radar Type 1**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
1	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5593 MHz		
Radar Frequency:		5593 MHz		
Detection Probability:		100 %		

Results: 5 MHz Client - Radar Type 2

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
2	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5593 MHz		
Radar Frequency:		5593 MHz		
Detection Probability:		100 %		

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 5 MHz Client - Radar Type 3**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
3	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5593 MHz		
Radar Frequency:		5593 MHz		
Detection Probability:		100 %		

Results: 5 MHz Client - Radar Type 4

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
4	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5593 MHz		
Radar Frequency:		5593 MHz		
Detection Probability:		100 %		

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 10 MHz Client - Radar Type 1**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
1	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5595 MHz		
Radar Frequency:		5595 MHz		
Detection Probability:		100 %		

Results: 10 MHz Client - Radar Type 2

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
2	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5595 MHz		
Radar Frequency:		5595 MHz		
Detection Probability:		100 %		

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 10 MHz Client - Radar Type 3**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
3	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5595 MHz		
Radar Frequency:		5595 MHz		
Detection Probability:		100 %		

Results: 10 MHz Client - Radar Type 4

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
4	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5595 MHz		
Radar Frequency:		5595 MHz		
Detection Probability:		100 %		

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 15 MHz Client - Radar Type 1**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
1	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5588 MHz		
Radar Frequency:		5588 MHz		
Detection Probability:		100 %		

Results: 15 MHz Client - Radar Type 2

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
2	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5588 MHz		
Radar Frequency:		5588 MHz		
Detection Probability:		100 %		

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 15 MHz Client - Radar Type 3**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
3	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5588 MHz		
Radar Frequency:		5588 MHz		
Detection Probability:		100 %		

Results: 15 MHz Client - Radar Type 4

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
4	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5588 MHz		
Radar Frequency:		5588 MHz		
Detection Probability:		100 %		

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 20 MHz Client - Radar Type 1**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
1	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5590 MHz		
Radar Frequency:		5590 MHz		
Detection Probability:		100 %		

Results: 20 MHz Client - Radar Type 2

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
2	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5590 MHz		
Radar Frequency:		5590 MHz		
Detection Probability:		100 %		

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 20 MHz Client - Radar Type 3**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
3	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5590 MHz		
Radar Frequency:		5590 MHz		
Detection Probability:		100 %		

Results: 20 MHz Client - Radar Type 4

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
4	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5590 MHz		
Radar Frequency:		5590 MHz		
Detection Probability:		100 %		

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 30 MHz Client - Radar Type 1**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
1	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5585 MHz		
Radar Frequency:		5585 MHz		
Detection Probability:		100 %		

Results: 30 MHz Client - Radar Type 2

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
2	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5585 MHz		
Radar Frequency:		5585 MHz		
Detection Probability:		100 %		

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 30 MHz Client - Radar Type 3**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
3	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5585 MHz		
Radar Frequency:		5585 MHz		
Detection Probability:		100 %		

Results: 30 MHz Client - Radar Type 4

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
4	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5585 MHz		
Radar Frequency:		5585 MHz		
Detection Probability:		100 %		

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 40 MHz Client - Radar Type 1**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
1	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5580 MHz		
Radar Frequency:		5580 MHz		
Detection Probability:		100 %		

Results: 40 MHz Client - Radar Type 2

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
2	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5580 MHz		
Radar Frequency:		5580 MHz		
Detection Probability:		100 %		

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 40 MHz Client - Radar Type 3**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
3	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5580 MHz		
Radar Frequency:		5580 MHz		
Detection Probability:		100 %		

Results: 40 MHz Client - Radar Type 4

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
4	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5580 MHz		
Radar Frequency:		5580 MHz		
Detection Probability:		100 %		

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 45 MHz Client - Radar Type 1**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
1	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5573 MHz		
Radar Frequency:		5573 MHz		
Detection Probability:		100 %		

Results: 45 MHz Client - Radar Type 2

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
2	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5573 MHz		
Radar Frequency:		5573 MHz		
Detection Probability:		100 %		

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Results: 45 MHz Client - Radar Type 3**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
3	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5573 MHz		
Radar Frequency:		5573 MHz		
Detection Probability:		100 %		

Results: 45 MHz Client - Radar Type 4

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
4	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5573 MHz		
Radar Frequency:		5573 MHz		
Detection Probability:		100 %		

Statistical Performance Check – Short Pulse Radar Types 1 - 4 (continued)**Limits:****KDB 905462 D02 Table 5 – Short Pulse Radar Test Waveforms**

Radar Type	Pulse Width (μs)	PRI (μs)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a.	$\text{Roundup} \left\{ \left(\frac{1}{360} \right) \times \left(\frac{19 \times 10^6}{PRI_{\mu sec}} \right) \right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A.			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

5.2.8. Statistical Performance Check – Long Pulse Radar Type 5**Test Summary:**

Test Engineers:	Philip Harrison & Georgios Vrezas	Test Dates:	12 November 2015 & 13 November 2015
Test Sample Serial Numbers:	F52320580074 (<i>Master</i>) F52320580072 (<i>Client</i>)		

FCC Reference:	Part 15.407(h)(2)
Test Method Used:	KDB 905462 D02 Section 7.8.4.2

Environmental Conditions:

Temperature (°C):	23 to 25
Relative Humidity (%):	41 to 51

Notes:

1. In accordance with KDB 905462 D02 Table 2, the Statistical Performance Check test was performed on all supported channel bandwidths, in both Master, and Client with Radar Detection modes.
2. Tests were performed using the radar detection threshold calculated in Section 4.2 of this test report.
3. Parameters used for the long radar type 5 may be found in Appendix 9 of this test report.
4. In accordance with KDB 905462 D02 Section 6.2 Footnote 4, the Bin 5 radar centre frequency for each of the 30 trials was randomly selected within 80% of the Occupied Bandwidth.
5. The EUT met the required detection probability and therefore complied with the Statistical Performance Check – Long Pulse Radar Type 5 requirements.

Statistical Performance Check – Long Pulse Radar Type 5 (continued)**Results: 5 MHz Master - Radar Type 5**

Radar Type	Trial #	Radar Frequency (MHz)	Detection
			Yes / No
5	1	5592.362	Yes
	2	5594.688	Yes
	3	5592.751	Yes
	4	5592.382	Yes
	5	5594.465	Yes
	6	5592.210	Yes
	7	5593.634	Yes
	8	5592.982	Yes
	9	5594.389	Yes
	10	5592.872	Yes
	11	5594.679	Yes
	12	5592.894	Yes
	13	5591.461	Yes
	14	5592.298	Yes
	15	5591.641	Yes
	16	5591.474	Yes
	17	5592.364	Yes
	18	5594.047	Yes
	19	5594.610	Yes
	20	5592.028	Yes
	21	5593.961	Yes
	22	5594.330	Yes
	23	5594.334	Yes
	24	5592.555	Yes
	25	5592.027	Yes
	26	5593.090	Yes
	27	5591.676	Yes
	28	5591.521	Yes
	29	5593.126	Yes
	30	5593.113	Yes
EUT Test Frequency:		5593 MHz	
Detection Probability:		100 %	

Statistical Performance Check – Long Pulse Radar Type 5 (continued)**Results: 10 MHz Master - Radar Type 5**

Radar Type	Trial #	Radar Frequency (MHz)	Detection
			Yes / No
5	1	5597.970	Yes
	2	5595.847	Yes
	3	5595.871	Yes
	4	5595.248	Yes
	5	5598.521	Yes
	6	5593.330	Yes
	7	5596.636	Yes
	8	5597.718	Yes
	9	5596.409	Yes
	10	5595.452	Yes
	11	5597.194	Yes
	12	5592.616	Yes
	13	5597.559	Yes
	14	5597.744	Yes
	15	5592.125	Yes
	16	5591.937	Yes
	17	5595.773	Yes
	18	5595.752	Yes
	19	5596.615	Yes
	20	5597.788	Yes
	21	5595.668	Yes
	22	5592.858	Yes
	23	5593.276	Yes
	24	5594.200	Yes
	25	5596.125	Yes
	26	5591.684	Yes
	27	5595.239	Yes
	28	5595.399	Yes
	29	5596.613	Yes
	30	5598.026	Yes
EUT Test Frequency:		5595 MHz	
Detection Probability:		100 %	

Statistical Performance Check – Long Pulse Radar Type 5 (continued)**Results: 15 MHz Master - Radar Type 5**

Radar Type	Trial #	Radar Frequency (MHz)	Detection
			Yes / No
5	1	5588.987	Yes
	2	5591.505	Yes
	3	5587.012	Yes
	4	5588.447	Yes
	5	5588.999	Yes
	6	5587.136	Yes
	7	5590.733	Yes
	8	5583.386	Yes
	9	5585.731	Yes
	10	5593.297	Yes
	11	5591.194	Yes
	12	5589.797	Yes
	13	5585.991	Yes
	14	5591.466	Yes
	15	5586.566	Yes
	16	5589.574	Yes
	17	5589.921	Yes
	18	5583.084	Yes
	19	5584.129	Yes
	20	5586.004	Yes
	21	5583.351	Yes
	22	5591.313	Yes
	23	5587.380	Yes
	24	5586.847	Yes
	25	5583.003	Yes
	26	5586.077	Yes
	27	5592.515	Yes
	28	5589.467	Yes
	29	5590.679	Yes
	30	5585.578	Yes
EUT Test Frequency:		5588 MHz	
Detection Probability:		100 %	

Statistical Performance Check – Long Pulse Radar Type 5 (continued)**Results: 20 MHz Master - Radar Type 5**

Radar Type	Trial #	Radar Frequency (MHz)	Detection
			Yes / No
5	1	5590.259	Yes
	2	5593.142	Yes
	3	5584.026	Yes
	4	5586.408	Yes
	5	5590.865	Yes
	6	5586.826	Yes
	7	5590.485	Yes
	8	5586.403	Yes
	9	5595.702	Yes
	10	5595.867	Yes
	11	5585.581	Yes
	12	5590.303	Yes
	13	5595.847	Yes
	14	5588.807	Yes
	15	5593.121	Yes
	16	5593.052	Yes
	17	5591.727	Yes
	18	5583.807	Yes
	19	5597.193	Yes
	20	5593.832	Yes
	21	5596.344	Yes
	22	5585.877	Yes
	23	5584.436	Yes
	24	5593.177	Yes
	25	5583.128	Yes
	26	5590.682	Yes
	27	5587.284	Yes
	28	5596.198	Yes
	29	5584.715	Yes
	30	5589.188	Yes
EUT Test Frequency:		5590 MHz	
Detection Probability:		100 %	

Statistical Performance Check – Long Pulse Radar Type 5 (continued)**Results: 30 MHz Master - Radar Type 5**

Radar Type	Trial #	Radar Frequency (MHz)	Detection
			Yes / No
5	1	5592.969	Yes
	2	5595.700	Yes
	3	5575.062	Yes
	4	5588.580	Yes
	5	5584.251	Yes
	6	5583.468	Yes
	7	5578.190	Yes
	8	5586.773	Yes
	9	5576.376	Yes
	10	5593.010	Yes
	11	5586.884	Yes
	12	5583.076	Yes
	13	5587.964	Yes
	14	5594.227	Yes
	15	5593.032	Yes
	16	5577.722	Yes
	17	5581.723	Yes
	18	5580.337	Yes
	19	5578.201	Yes
	20	5593.831	Yes
	21	5589.717	Yes
	22	5577.847	Yes
	23	5580.634	Yes
	24	5593.280	Yes
	25	5586.078	Yes
	26	5581.062	Yes
	27	5587.865	Yes
	28	5592.466	Yes
	29	5590.865	Yes
	30	5582.086	Yes
EUT Test Frequency:		5585 MHz	
Detection Probability:		100 %	

Statistical Performance Check – Long Pulse Radar Type 5 (continued)**Results: 40 MHz Master - Radar Type 5**

Radar Type	Trial #	Radar Frequency (MHz)	Detection
			Yes / No
5	1	5577.474	Yes
	2	5582.520	Yes
	3	5579.072	Yes
	4	5587.566	Yes
	5	5592.729	Yes
	6	5583.361	Yes
	7	5566.737	Yes
	8	5567.284	Yes
	9	5567.924	Yes
	10	5588.506	Yes
	11	5578.140	Yes
	12	5575.368	Yes
	13	5577.496	Yes
	14	5585.177	Yes
	15	5588.218	Yes
	16	5581.862	Yes
	17	5574.130	Yes
	18	5582.257	Yes
	19	5573.242	Yes
	20	5578.987	Yes
	21	5575.272	Yes
	22	5570.463	Yes
	23	5571.870	Yes
	24	5566.839	Yes
	25	5575.802	Yes
	26	5590.584	Yes
	27	5579.347	Yes
	28	5569.589	Yes
	29	5578.183	Yes
	30	5591.251	Yes
EUT Test Frequency:		5580 MHz	
Detection Probability:		100 %	

Statistical Performance Check – Long Pulse Radar Type 5 (continued)**Results: 45 MHz Master - Radar Type 5**

Radar Type	Trial #	Radar Frequency (MHz)	Detection
			Yes / No
5	1	5557.546	Yes
	2	5558.497	Yes
	3	5561.577	Yes
	4	5575.283	Yes
	5	5574.211	Yes
	6	5561.912	Yes
	7	5578.801	Yes
	8	5564.078	Yes
	9	5568.987	Yes
	10	5570.996	Yes
	11	5575.973	Yes
	12	5587.421	Yes
	13	5575.252	Yes
	14	5566.441	Yes
	15	5573.079	Yes
	16	5586.379	Yes
	17	5568.895	Yes
	18	5578.526	Yes
	19	5581.866	Yes
	20	5583.910	Yes
	21	5578.954	Yes
	22	5570.044	Yes
	23	5577.578	Yes
	24	5582.670	Yes
	25	5569.146	Yes
	26	5564.246	Yes
	27	5573.204	Yes
	28	5578.336	Yes
	29	5586.390	Yes
	30	5560.852	Yes
EUT Test Frequency:		5573 MHz	
Detection Probability:		100 %	

Statistical Performance Check – Long Pulse Radar Type 5 (continued)**Results: 5 MHz Client - Radar Type 5**

Radar Type	Trial #	Radar Frequency (MHz)	Detection
			Yes / No
5	1	5594.592	Yes
	2	5593.521	Yes
	3	5594.470	Yes
	4	5592.735	Yes
	5	5592.616	Yes
	6	5591.537	Yes
	7	5592.803	Yes
	8	5593.135	Yes
	9	5593.671	Yes
	10	5593.896	Yes
	11	5594.442	Yes
	12	5592.055	Yes
	13	5594.786	Yes
	14	5591.536	Yes
	15	5592.552	Yes
	16	5591.523	Yes
	17	5592.378	Yes
	18	5592.985	Yes
	19	5591.353	Yes
	20	5592.523	Yes
	21	5592.727	Yes
	22	5592.199	Yes
	23	5591.416	Yes
	24	5592.163	Yes
	25	5594.154	Yes
	26	5592.793	Yes
	27	5593.061	Yes
	28	5591.413	Yes
	29	5593.280	Yes
	30	5594.614	Yes
EUT Test Frequency:		5593 MHz	
Detection Probability:		100 %	

Statistical Performance Check – Long Pulse Radar Type 5 (continued)**Results: 10 MHz Client - Radar Type 5**

Radar Type	Trial #	Radar Frequency (MHz)	Detection
			Yes / No
5	1	5593.658	Yes
	2	5596.560	Yes
	3	5594.802	Yes
	4	5592.415	Yes
	5	5593.154	Yes
	6	5596.765	Yes
	7	5592.885	Yes
	8	5594.657	Yes
	9	5596.918	Yes
	10	5593.180	Yes
	11	5595.042	Yes
	12	5591.574	Yes
	13	5594.120	Yes
	14	5594.616	Yes
	15	5598.535	Yes
	16	5593.620	Yes
	17	5597.308	Yes
	18	5594.495	Yes
	19	5592.551	Yes
	20	5592.835	Yes
	21	5596.348	Yes
	22	5594.639	Yes
	23	5592.074	Yes
	24	5593.982	Yes
	25	5596.574	Yes
	26	5594.518	Yes
	27	5596.764	Yes
	28	5592.862	Yes
	29	5592.900	Yes
	30	5592.952	Yes
EUT Test Frequency:		5595 MHz	
Detection Probability:		100 %	

Statistical Performance Check – Long Pulse Radar Type 5 (continued)**Results: 15 MHz Client - Radar Type 5**

Radar Type	Trial #	Radar Frequency (MHz)	Detection
			Yes / No
5	1	5590.983	Yes
	2	5591.751	Yes
	3	5592.267	Yes
	4	5586.230	Yes
	5	5586.118	Yes
	6	5592.494	Yes
	7	5590.084	Yes
	8	5585.120	Yes
	9	5591.849	Yes
	10	5590.241	Yes
	11	5593.070	Yes
	12	5588.729	Yes
	13	5586.786	Yes
	14	5592.476	Yes
	15	5591.167	Yes
	16	5587.347	Yes
	17	5588.143	Yes
	18	5589.712	Yes
	19	5589.587	Yes
	20	5591.143	Yes
	21	5586.418	Yes
	22	5592.451	Yes
	23	5582.921	Yes
	24	5585.019	Yes
	25	5592.774	Yes
	26	5592.934	Yes
	27	5586.367	Yes
	28	5590.686	Yes
	29	5586.494	Yes
	30	5588.752	Yes
EUT Test Frequency:		5588 MHz	
Detection Probability:		100 %	

Statistical Performance Check – Long Pulse Radar Type 5 (continued)**Results: 20 MHz Client - Radar Type 5**

Radar Type	Trial #	Radar Frequency (MHz)	Detection
			Yes / No
5	1	5593.275	Yes
	2	5593.322	Yes
	3	5594.485	Yes
	4	5582.988	Yes
	5	5583.423	Yes
	6	5591.111	Yes
	7	5594.955	Yes
	8	5595.828	Yes
	9	5596.773	Yes
	10	5586.683	Yes
	11	5583.879	Yes
	12	5586.068	Yes
	13	5585.262	Yes
	14	5586.426	Yes
	15	5585.985	Yes
	16	5584.353	Yes
	17	5588.177	Yes
	18	5595.137	Yes
	19	5595.663	Yes
	20	5590.654	Yes
	21	5596.614	Yes
	22	5583.968	Yes
	23	5583.547	Yes
	24	5596.766	Yes
	25	5584.700	Yes
	26	5594.217	Yes
	27	5584.036	Yes
	28	5593.288	Yes
	29	5587.518	Yes
	30	5586.337	Yes
EUT Test Frequency:		5590 MHz	
Detection Probability:		100 %	

Statistical Performance Check – Long Pulse Radar Type 5 (continued)**Results: 30 MHz Client - Radar Type 5**

Radar Type	Trial #	Radar Frequency (MHz)	Detection
			Yes / No
5	1	5593.872	Yes
	2	5593.798	Yes
	3	5579.011	Yes
	4	5582.858	Yes
	5	5575.034	Yes
	6	5578.634	Yes
	7	5593.671	Yes
	8	5595.529	Yes
	9	5593.743	Yes
	10	5580.879	Yes
	11	5579.826	Yes
	12	5576.509	Yes
	13	5583.142	Yes
	14	5587.309	Yes
	15	5575.260	Yes
	16	5578.589	Yes
	17	5591.017	Yes
	18	5585.478	Yes
	19	5589.411	Yes
	20	5588.999	Yes
	21	5578.332	Yes
	22	5587.882	Yes
	23	5585.429	Yes
	24	5594.610	Yes
	25	5581.136	Yes
	26	5589.388	Yes
	27	5577.934	Yes
	28	5588.843	Yes
	29	5589.232	Yes
	30	5594.675	Yes
EUT Test Frequency:		5585 MHz	
Detection Probability:		100 %	

Statistical Performance Check – Long Pulse Radar Type 5 (continued)**Results: 40 MHz Client - Radar Type 5**

Radar Type	Trial #	Radar Frequency (MHz)	Detection
			Yes / No
5	1	5576.870	Yes
	2	5568.839	Yes
	3	5567.494	Yes
	4	5575.090	Yes
	5	5570.563	Yes
	6	5576.824	Yes
	7	5576.058	Yes
	8	5585.719	Yes
	9	5581.739	Yes
	10	5577.091	Yes
	11	5569.294	Yes
	12	5569.709	Yes
	13	5567.988	Yes
	14	5594.192	Yes
	15	5586.962	Yes
	16	5567.336	Yes
	17	5592.958	Yes
	18	5593.797	Yes
	19	5582.783	Yes
	20	5585.835	Yes
	21	5570.875	Yes
	22	5572.224	Yes
	23	5581.096	Yes
	24	5592.780	Yes
	25	5576.919	Yes
	26	5589.492	Yes
	27	5592.463	Yes
	28	5593.030	Yes
	29	5580.264	Yes
	30	5570.927	Yes
EUT Test Frequency:		5580 MHz	
Detection Probability:		100 %	

Statistical Performance Check – Long Pulse Radar Type 5 (continued)**Results: 45 MHz Client - Radar Type 5**

Radar Type	Trial #	Radar Frequency (MHz)	Detection
			Yes / No
5	1	5582.795	Yes
	2	5564.827	Yes
	3	5584.027	Yes
	4	5558.630	Yes
	5	5565.850	Yes
	6	5583.230	Yes
	7	5569.788	Yes
	8	5584.054	Yes
	9	5582.142	Yes
	10	5575.631	Yes
	11	5557.738	Yes
	12	5562.247	Yes
	13	5584.699	Yes
	14	5579.806	Yes
	15	5561.088	Yes
	16	5571.004	Yes
	17	5563.128	Yes
	18	5564.335	Yes
	19	5561.640	Yes
	20	5575.623	Yes
	21	5574.747	Yes
	22	5578.391	Yes
	23	5565.308	Yes
	24	5562.544	Yes
	25	5587.879	Yes
	26	5560.059	Yes
	27	5572.202	Yes
	28	5576.747	Yes
	29	5575.564	Yes
	30	5566.767	Yes
EUT Test Frequency:		5573 MHz	
Detection Probability:		100 %	

Statistical Performance Check – Long Pulse Radar Type 5 (continued)**Limits:****KDB 905462 D02 Table 6 – Long Pulse Radar Test Waveform**

Radar Type	Pulse Width (μs)	Chirp Width (MHz)	PRI (μs)	Number of Pulses per <i>Burst</i>	Number of <i>Bursts</i>	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

5.2.9. Statistical Performance Check – Frequency Hopping Radar Type 6**Test Summary:**

Test Engineer:	Philip Harrison	Test Dates:	22 September 2015, 24 September 2015, 28 September 2015, 29 September 2015 & 30 September 2015
Test Sample Serial Number:	F52320580074 (<i>Master</i>) F52320580072 (<i>Client</i>)		

FCC Reference:	Part 15.407(h)(2)
Test Method Used:	KDB 905462 D02 Section 7.8.4.3

Environmental Conditions:

Temperature (°C):	24 to 28
Relative Humidity (%):	39 to 44

Notes:

1. In accordance with KDB 905462 D02 Table 2, the Statistical Performance Check test was performed on all supported channel bandwidths, in both Master, and Client with Radar Detection modes.
2. Tests were performed using the radar detection threshold calculated in Section 4.2 of this test report.
3. Some of the randomly generated hopping radars included no hops within the detection bandwidth of the EUT. In this case additional radars, which would produce at least one hop within the operating bandwidth of the EUT, were generated and used instead.
4. The EUT met the required detection probability and therefore complied with the *Statistical Performance Check – Frequency Hopping Radar Type 6* test.

Statistical Performance Check – Frequency Hopping Radar Type 6 (continued)**Results: 5 MHz Master - Radar Type 6**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
6	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5593 MHz		
Radar Frequency:		Hopping		
Detection Probability:		100 %		

Results: 10 MHz Master - Radar Type 6

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
6	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5595 MHz		
Radar Frequency:		Hopping		
Detection Probability:		100 %		

Statistical Performance Check – Frequency Hopping Radar Type 6 (continued)**Results: 15 MHz Master - Radar Type 6**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
6	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5588 MHz		
Radar Frequency:		Hopping		
Detection Probability:		100 %		

Results: 20 MHz Master - Radar Type 6

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
6	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5590 MHz		
Radar Frequency:		Hopping		
Detection Probability:		100 %		

Statistical Performance Check – Frequency Hopping Radar Type 6 (continued)**Results: 30 MHz Master - Radar Type 6**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
6	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5585 MHz		
Radar Frequency:		Hopping		
Detection Probability:		100 %		

Results: 40 MHz Master - Radar Type 6

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
6	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5580 MHz		
Radar Frequency:		Hopping		
Detection Probability:		100 %		

Statistical Performance Check – Frequency Hopping Radar Type 6 (continued)**Results: 45 MHz Master - Radar Type 6**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
6	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5573 MHz		
Radar Frequency:		Hopping		
Detection Probability:		100 %		

Statistical Performance Check – Frequency Hopping Radar Type 6 (continued)**Results: 5 MHz Client - Radar Type 6**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
6	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5593 MHz		
Radar Frequency:		Hopping		
Detection Probability:		100 %		

Results: 10 MHz Client - Radar Type 6

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
6	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5595 MHz		
Radar Frequency:		Hopping		
Detection Probability:		100 %		

Statistical Performance Check – Frequency Hopping Radar Type 6 (continued)**Results: 15 MHz Client - Radar Type 6**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
6	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5588 MHz		
Radar Frequency:		Hopping		
Detection Probability:		100 %		

Results: 20 MHz Client - Radar Type 6

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
6	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5590 MHz		
Radar Frequency:		Hopping		
Detection Probability:		100 %		

Statistical Performance Check – Frequency Hopping Radar Type 6 (continued)**Results: 30 MHz Client - Radar Type 6**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
6	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5585 MHz		
Radar Frequency:		Hopping		
Detection Probability:		100 %		

Results: 40 MHz Client - Radar Type 6

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
6	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5580 MHz		
Radar Frequency:		Hopping		
Detection Probability:		100 %		

Statistical Performance Check – Frequency Hopping Radar Type 6 (continued)**Results: 45 MHz Client - Radar Type 6**

Radar Type	Trial #	Detection	Trial #	Detection
		Yes / No		Yes / No
6	1	Yes	16	Yes
	2	Yes	17	Yes
	3	Yes	18	Yes
	4	Yes	19	Yes
	5	Yes	20	Yes
	6	Yes	21	Yes
	7	Yes	22	Yes
	8	Yes	23	Yes
	9	Yes	24	Yes
	10	Yes	25	Yes
	11	Yes	26	Yes
	12	Yes	27	Yes
	13	Yes	28	Yes
	14	Yes	29	Yes
	15	Yes	30	Yes
EUT Test Frequency:		5573 MHz		
Radar Frequency:		Hopping		
Detection Probability:		100 %		

Limits:**KDB 905462 D02 Table 7 – Frequency Hopping Radar Test Waveform**

Radar Type	Pulse Width (μs)	PRI (μs)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (ms)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

6. Measurement Uncertainty

No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently the result of a measurement is only an approximation to the value of the measurand (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.

The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.

The uncertainty of the result may need to be taken into account when interpreting the measurement results.

The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor such that a confidence level of approximately 95% is maintained. For the purposes of this document “approximately” is interpreted as meaning “effectively” or “for most practical purposes”.

Measurement Type	Confidence Level (%)	Calculated Uncertainty
DFS CAC Plot Timing	95%	± 918 ms
DFS Channel Shutdown Timing	95%	± 450 µs
DFS Non-Occupancy Timing	95%	± 79.25 ms
DFS Radar Amplitude	95%	± 2.17 dB

The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty the published guidance of the appropriate accreditation body is followed.

7. Report Revision History

Version Number	Revision Details		
	Page No(s)	Clause	Details
1.0	-	-	Initial Version
2.0	30, 32 & 34	-	Changed Note 2

Appendix 1. Test Equipment Used

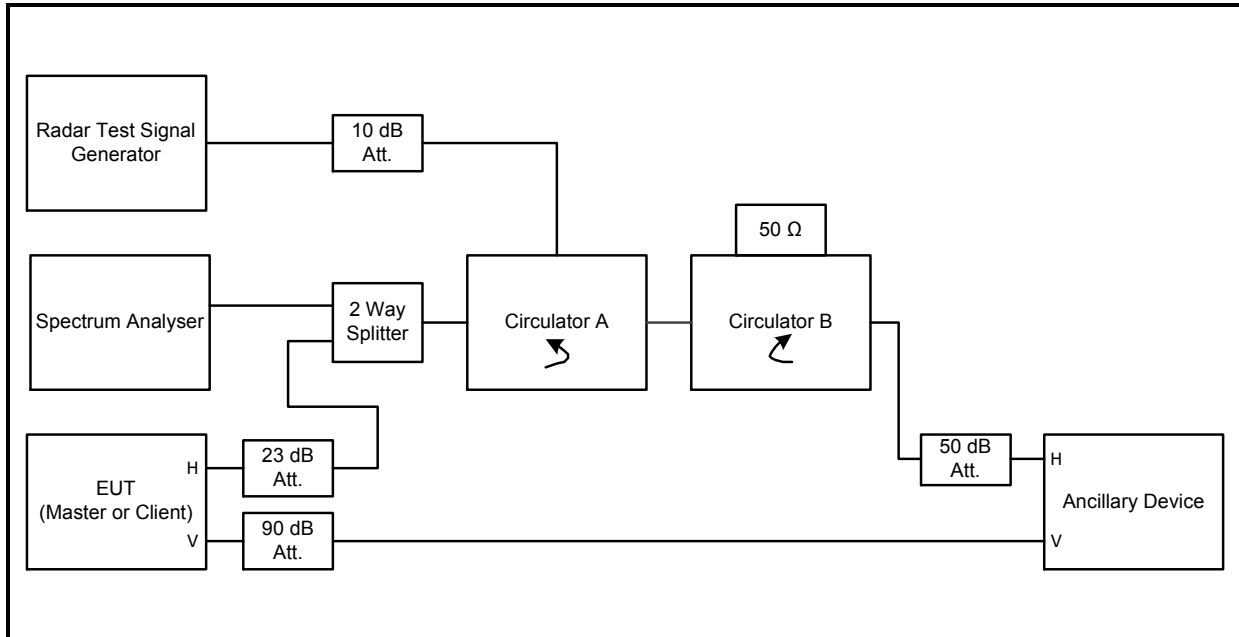
Asset No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M1785	Thermohygrometer	JM Handelspunkt	30.5015.13	None stated	23 Apr 2016	12
M1760	Thermohygrometer	None stated	HTC-1	None stated	14 Apr 2016	12
M1631	DFS Test System	Aeroflex	PXI 3000	300110/291	Calibrated Before Use	24
M1630	Test Receiver	Rohde & Schwarz	ESU40	100233	20 Feb 2016	12
M1873	Signal Analyser	Rohde & Schwarz	FSV 30	103074	03 Jul 2016	12
M1585	Network Analyser	Agilent	E5071C	MY46110256	30 Jul 2016	24
A030	Step Attenuator	Narda	445-69	01544	Calibrated Before Use	-
A090	Step Attenuator	Narda	743-60	01057	Calibrated Before Use	-
A2119	Power Splitter	Mini-Circuits	ZN2PD-63-S+	SUU12701203	Calibrated Before Use	-
A2182	Coaxial Circulator 4 – 18 GHz	AtlanTecRF	ACC-20130-SF-SF-SF	120409231	Calibrated Before Use	-
A2183	Coaxial Circulator 4 – 18 GHz	AtlanTecRF	ACC-20130-SF-SF-SF	120409232	Calibrated Before Use	-
A1317	50Ω Termination	Narda	376BNM	0103	Calibrated Before Use	-
A2494	50Ω Termination	Narda	TA06W5-F	082013#2	Calibrated Before Use	-

NB In accordance with UKAS requirements all the measurement equipment is on a calibration schedule.

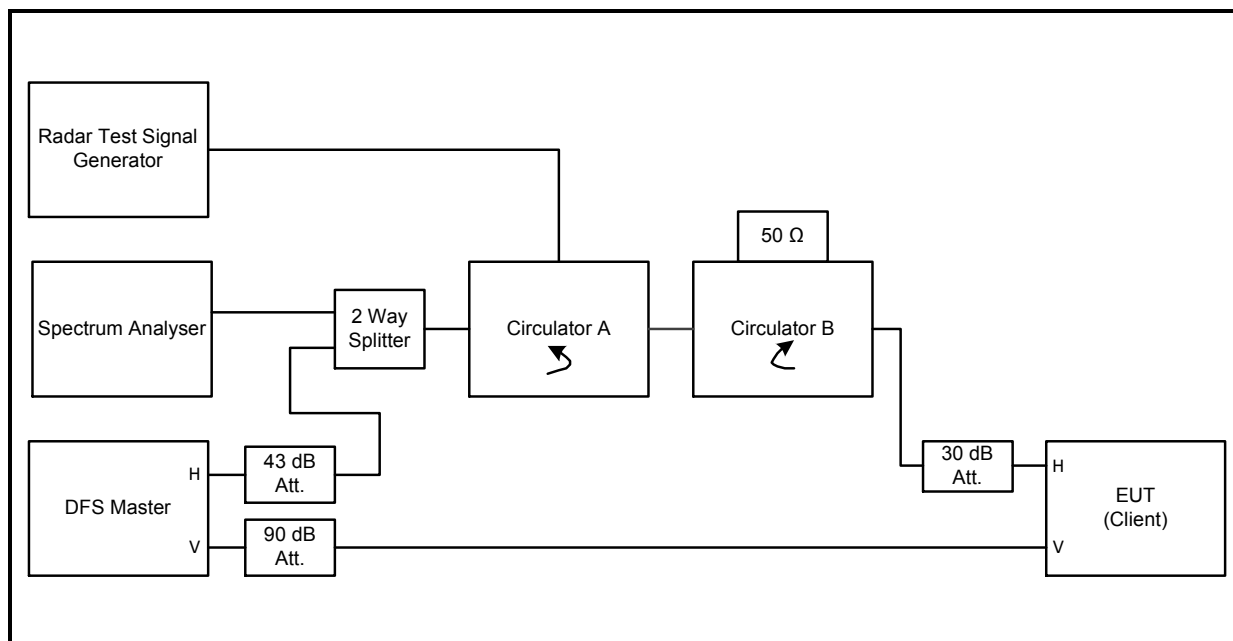
Appendix 2. Monitoring Methods Diagrams

All tests were performed as conducted measurements using the setups as shown below. The detecting device always receives the radar via a direct (non-isolated) port of any circulator or splitter to ensure impedance variations do not affect the radar amplitude in accordance with KDB 905462 D02 Section 7.2, point (2).

Setup Diagram – EUT as Master with Radar Injection at Master, or EUT as Client with Radar Injection at Client



Note: Circulator A directs the radar pulse towards the device under test. Circulator B provides the same transmit path loss in both directions between the master and client devices. The EUT will appear larger than the ancillary device, and smaller than the radar at the Spectrum Analyser. The radar will be larger at the EUT than at the ancillary device.

Setup Diagram – EUT as Client, Radar Injection at Master

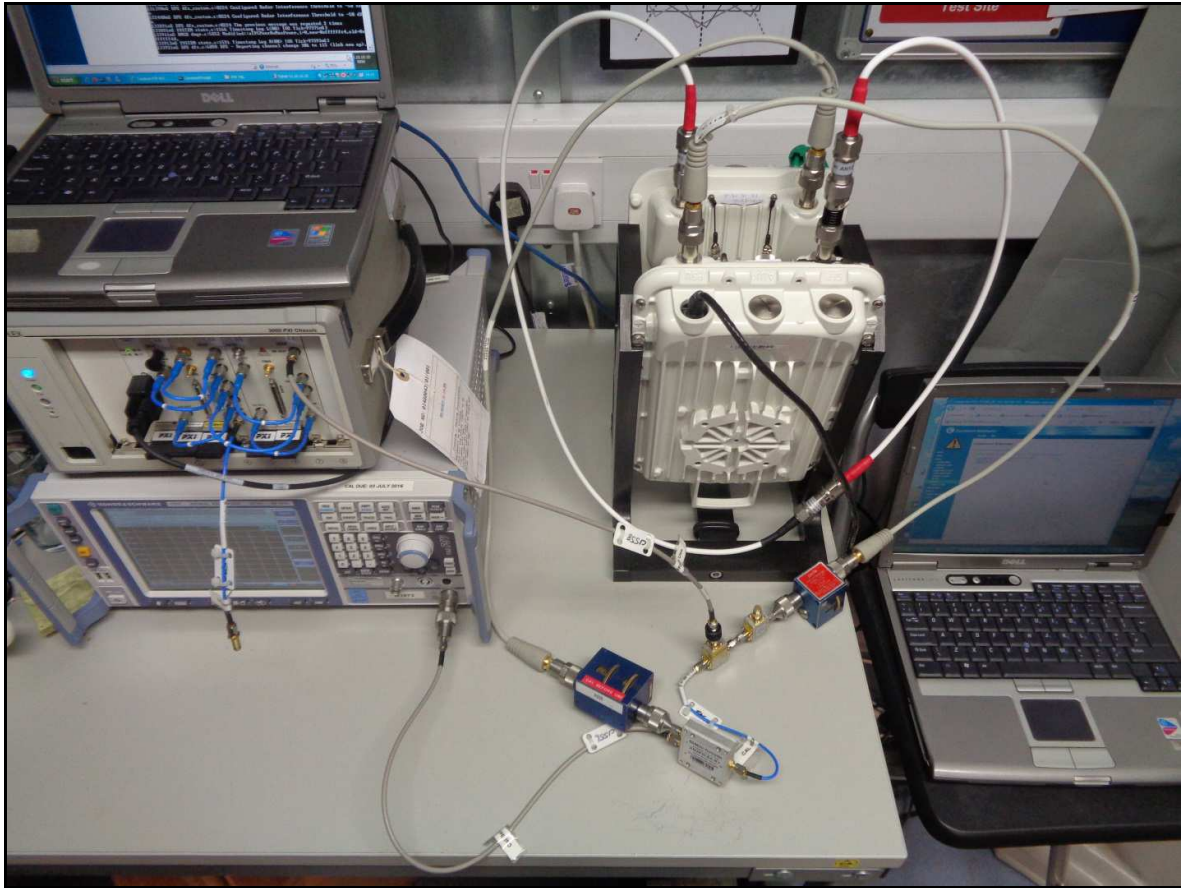
Note: Similarly to the set-up above, Circulator A again directs the radar towards the radar detecting device. Circulator B provides the same transmit path loss in both directions between the master and client devices whilst also attenuating any radar heading in the direction of the EUT. Due to the different attenuation settings the EUT (client) will appear larger than the master device, and smaller than the radar at the Spectrum Analyser. The radar level is recalibrated to account for the different attenuation settings in the radar path.

Appendix 3. Radar Type 1-6 Calibration and Verification Data

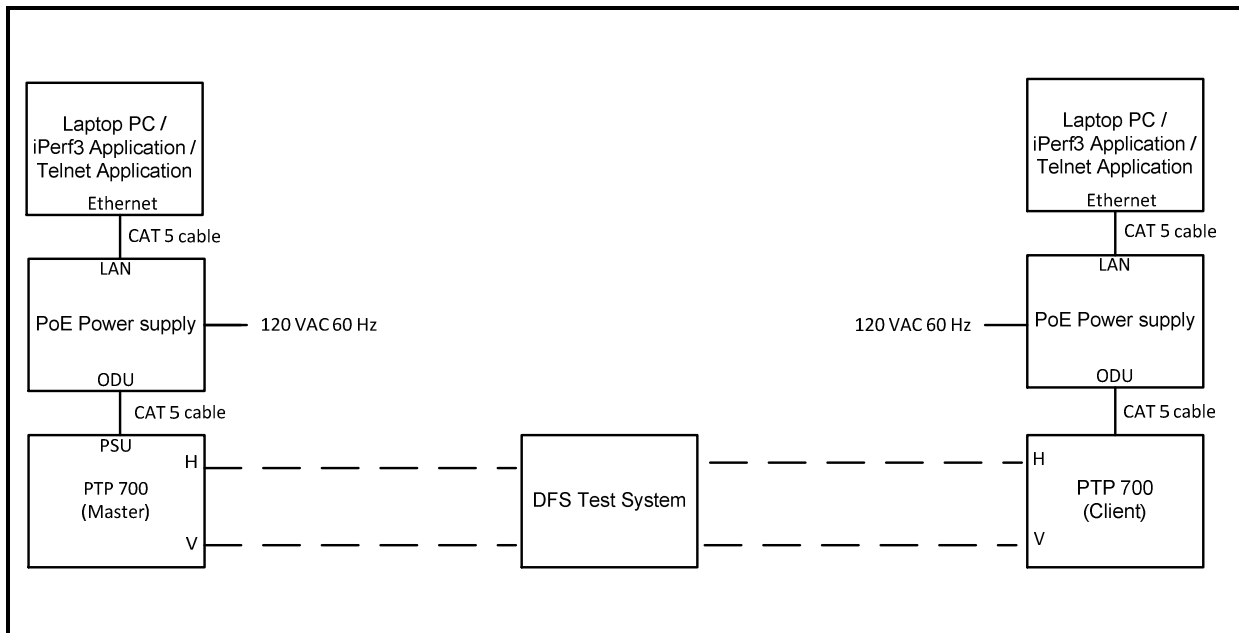
All radars were generated and produced by an Aeroflex DFS test system. The radar pulse generation of this system has previously been verified by the FCC (see Appendix 4).

The radar amplitude was calibrated using the setup diagram shown below. The spectrum analyser was replaced by a 50Ω load. The EUT was replaced by a spectrum analyser. The Aeroflex DFS test system was then set to transmit a CW signal with which to calibrate the radar level. The output level was adjusted to give the correct level into the EUT, as calculated in Section 4 of this test report, before the tests were performed.

An additional check was then made using the above calibrated level and a 1 μs pulse of a type 0 radar. Maximum spectrum analyser RBW/VBW setting was used for this to avoid pulse desensitisation effects of the very short burst time. This level was then used for all radar types during testing.

Equipment Setup Photograph – Conducted Method

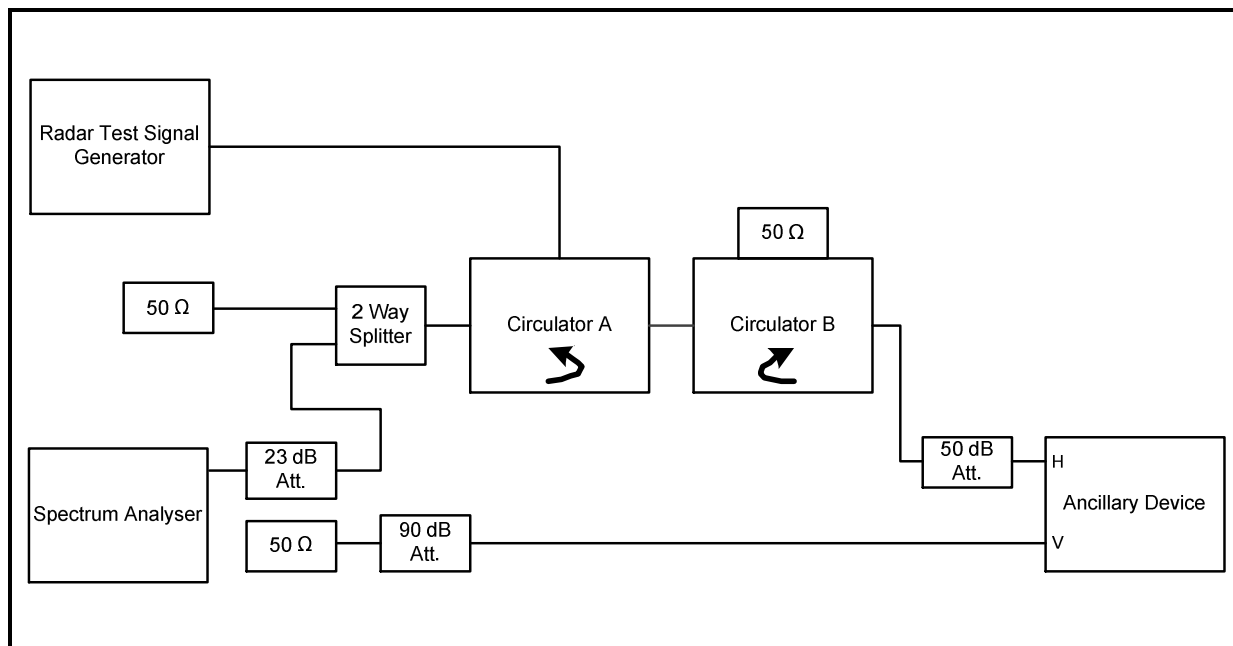
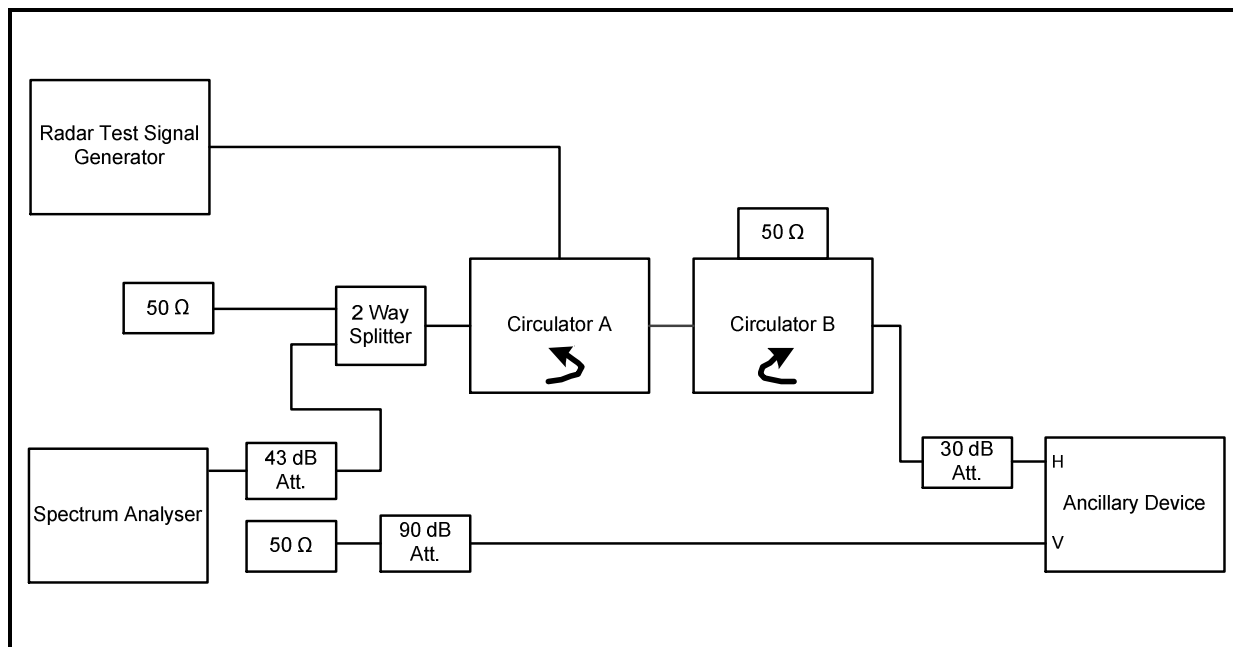
Test set-up photo showing both Master and Client



EUT and Test set-up block diagram

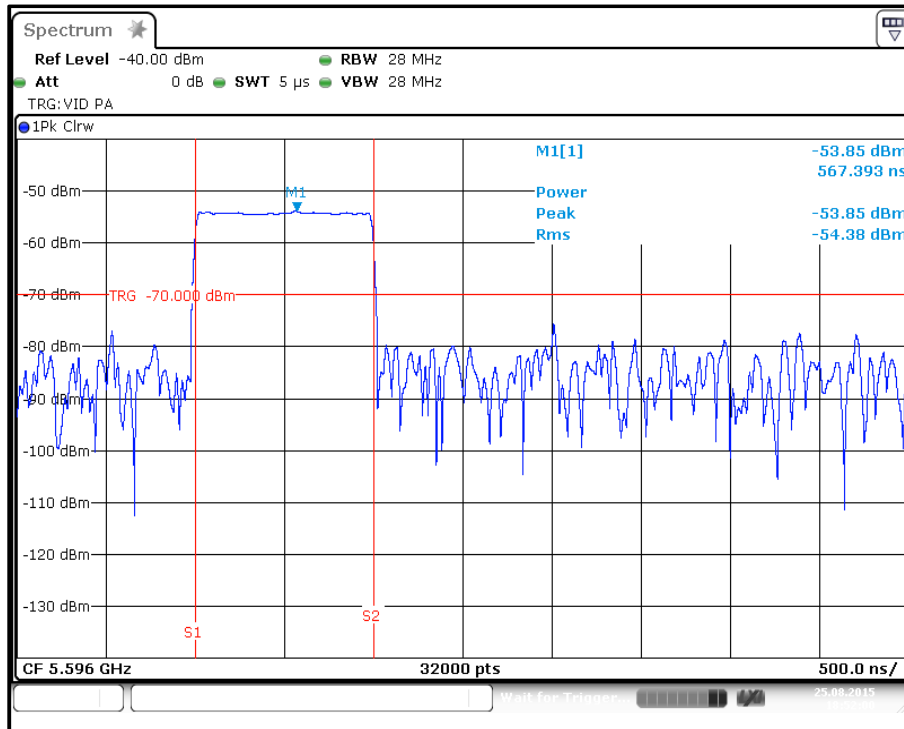
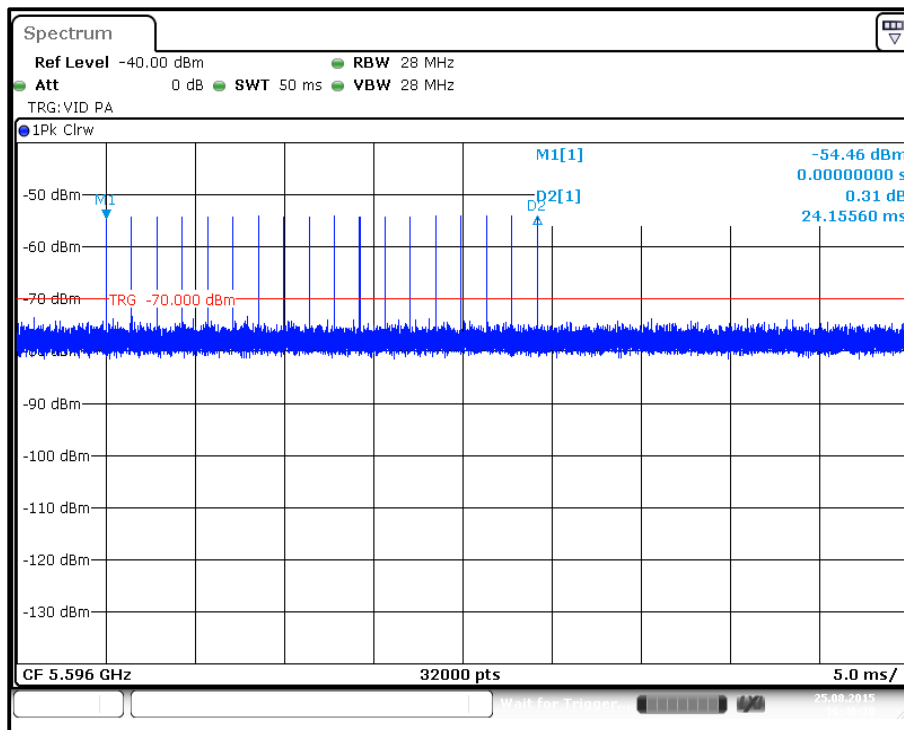
Equipment Setup for Calibration Block Diagram – Conducted Method

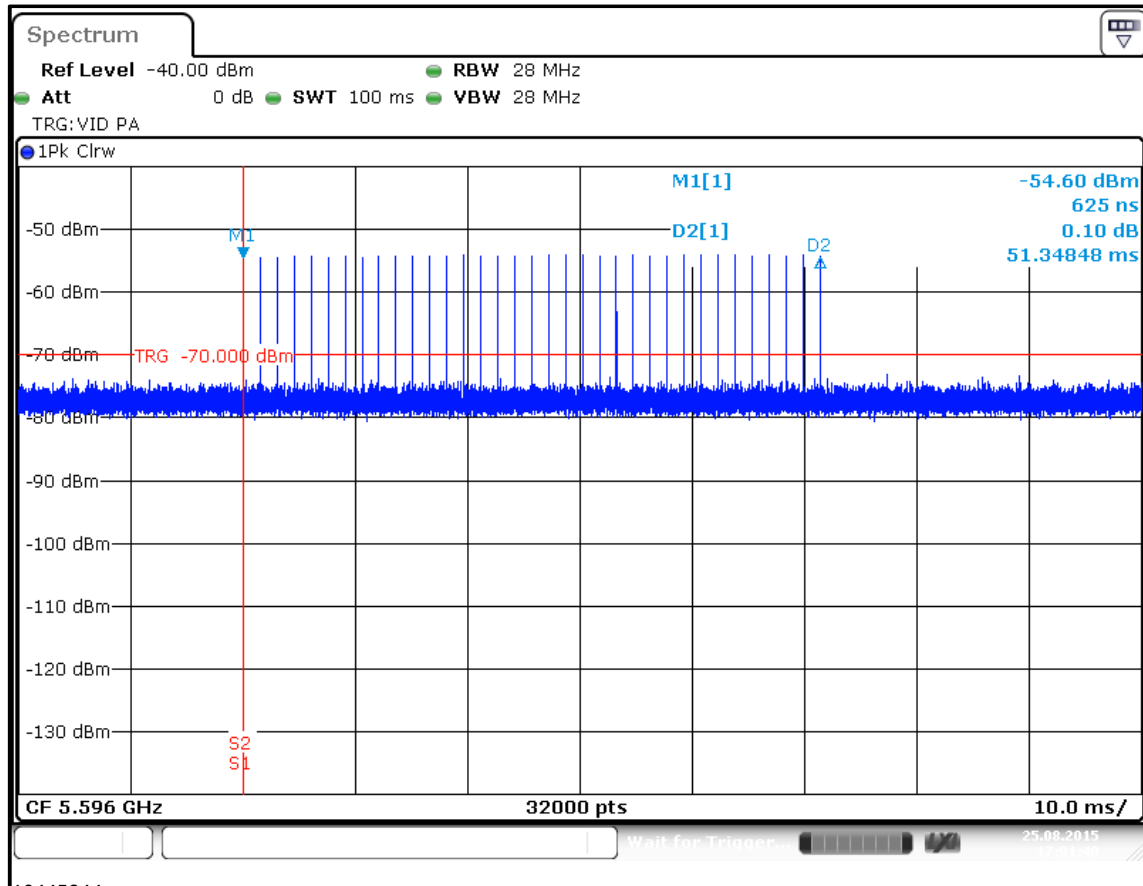
Calibration was performed using the setups as shown below.

EUT as Master with Radar Injection at Master, or EUT as Client with Radar Injection at Client**EUT as Client with Radar Injection at Master**

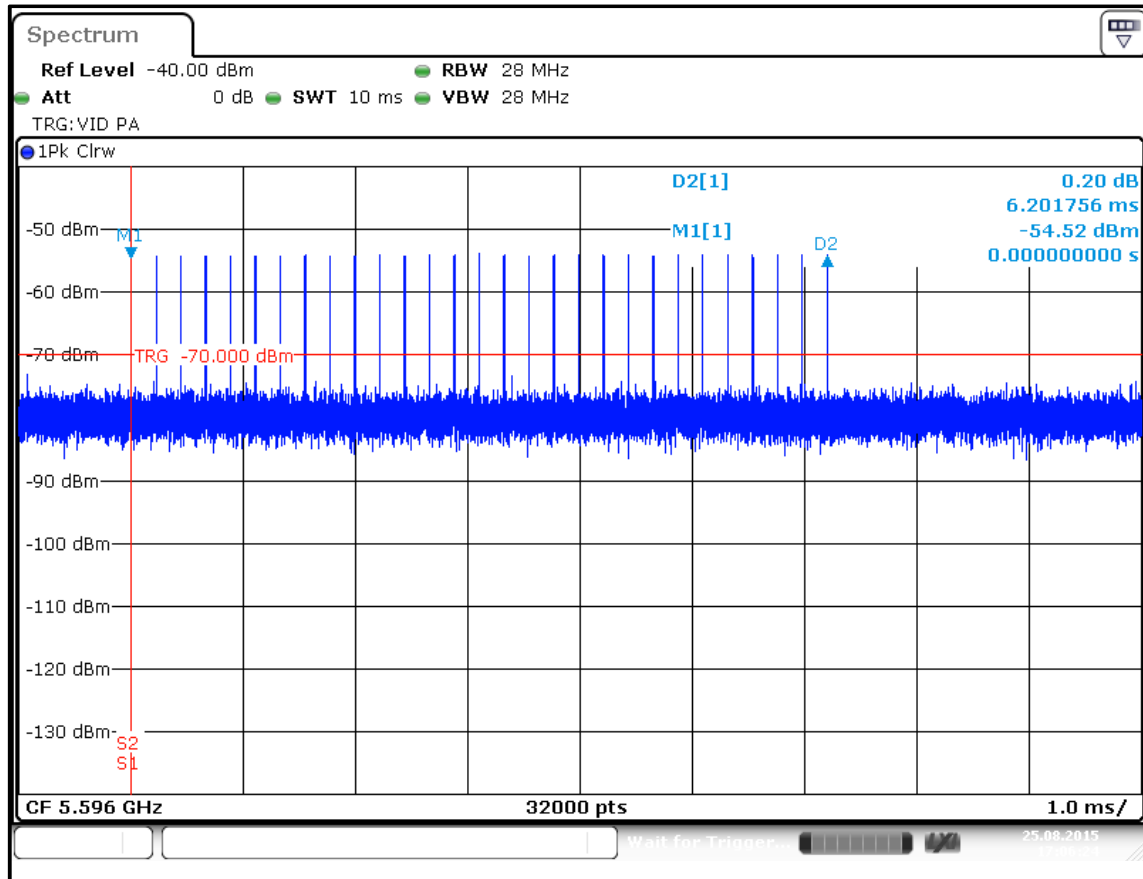
Radar Verification

The test system and its waveform generation has been validated by the FCC as an 'approved' device (see Appendix 4), so full analysis of each radar is not necessary. However, below are sample plots for each of the radar types. Note the full timing plots of all the pulses in the waveform may give slightly inaccurate amplitudes. They are therefore accurate only as timing plots for an example radar overview.

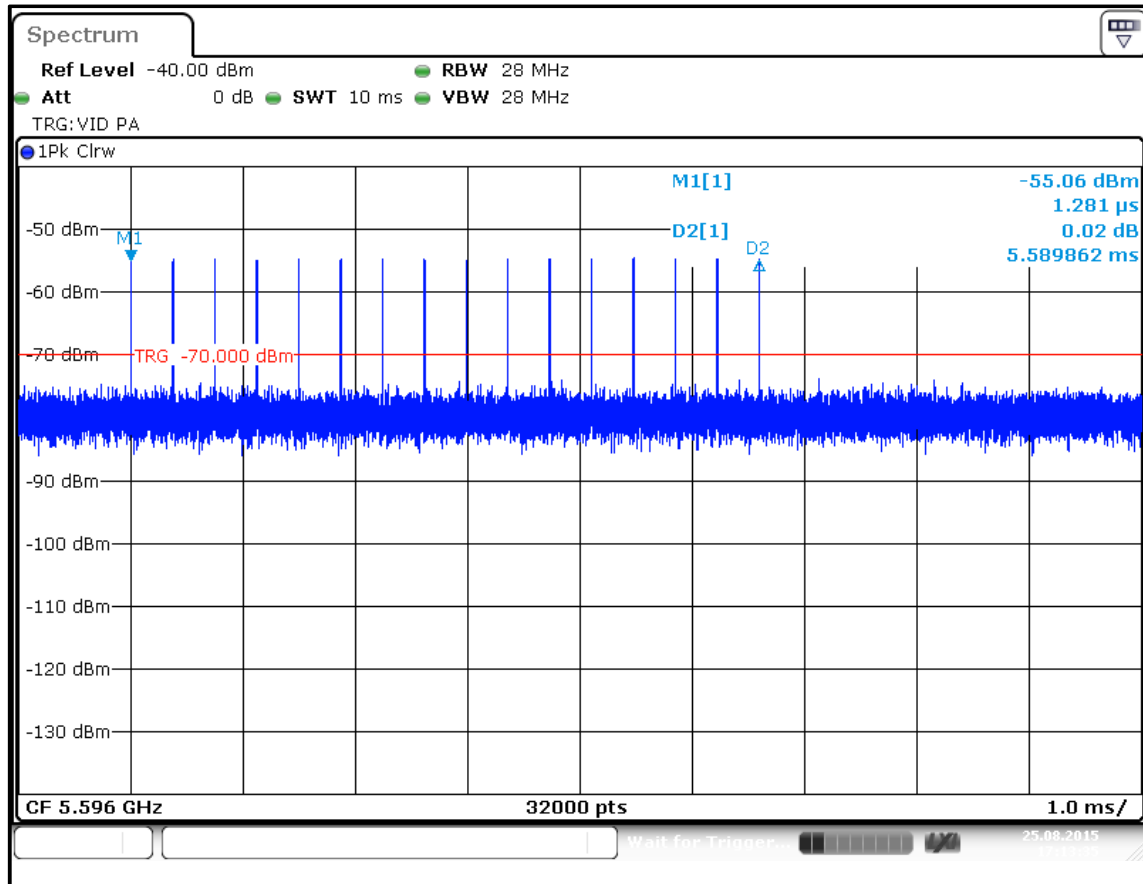
Radar Type 0Radar Type 0 – single 1 µs pulseRadar Type 0 – full 18 pulse waveform

Radar Type 1

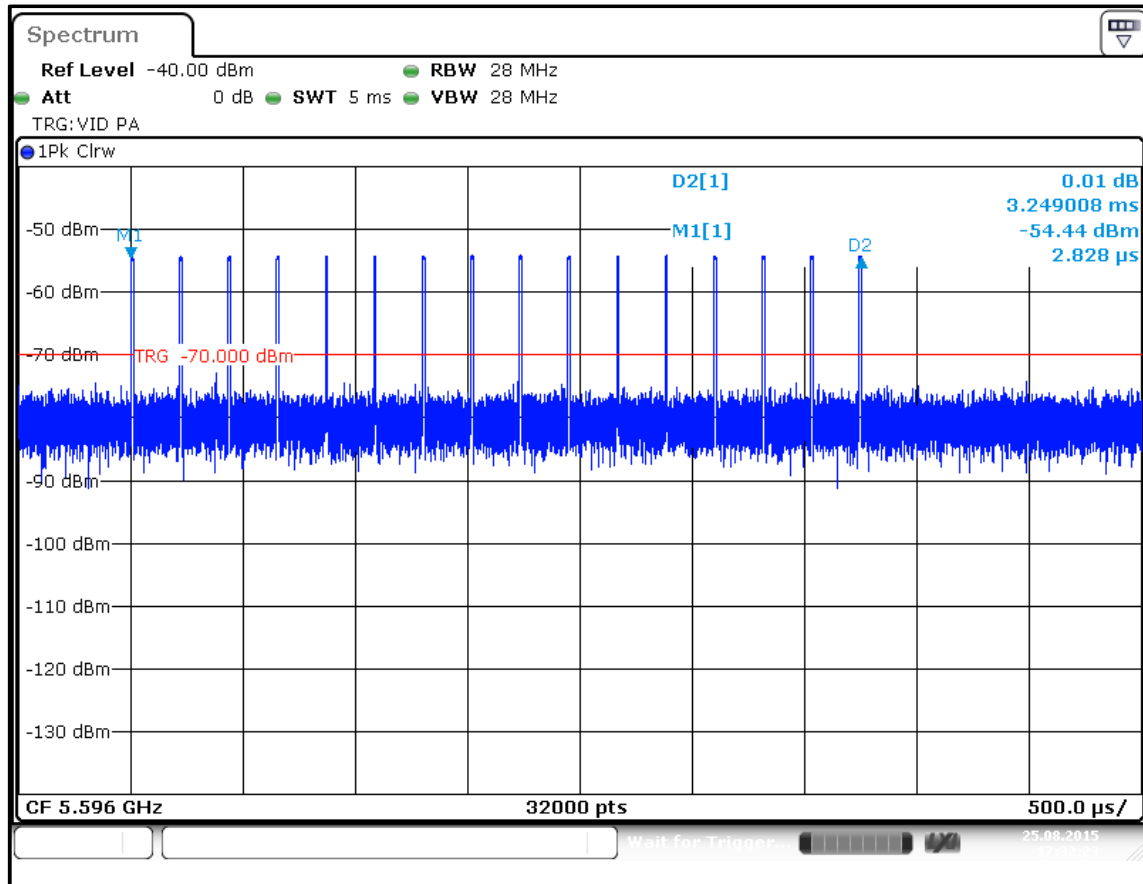
Radar Type 1 – 1 μ s pulse width, 1514 μ s PRI, 35 pulses

Radar Type 2

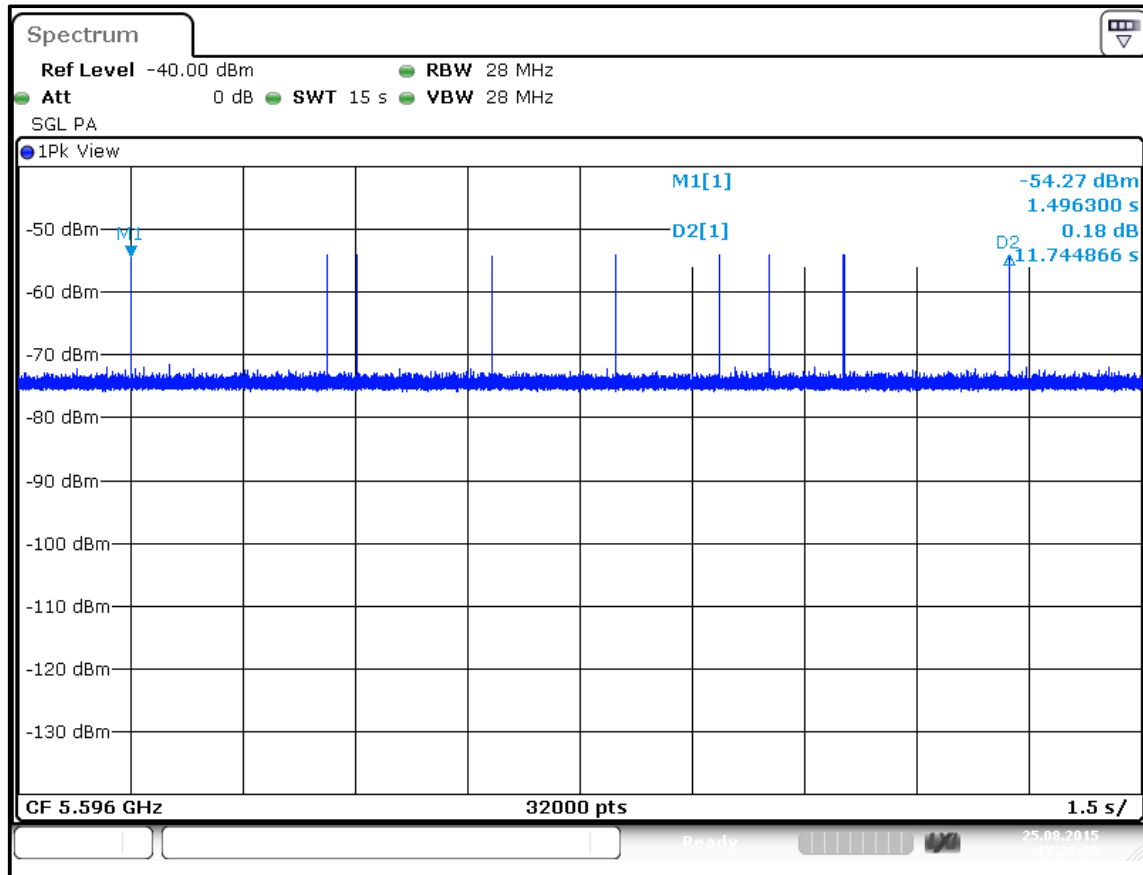
Radar Type 2 – 1 μ s pulse width, 227 μ s PRI, 29 pulses

Radar Type 3

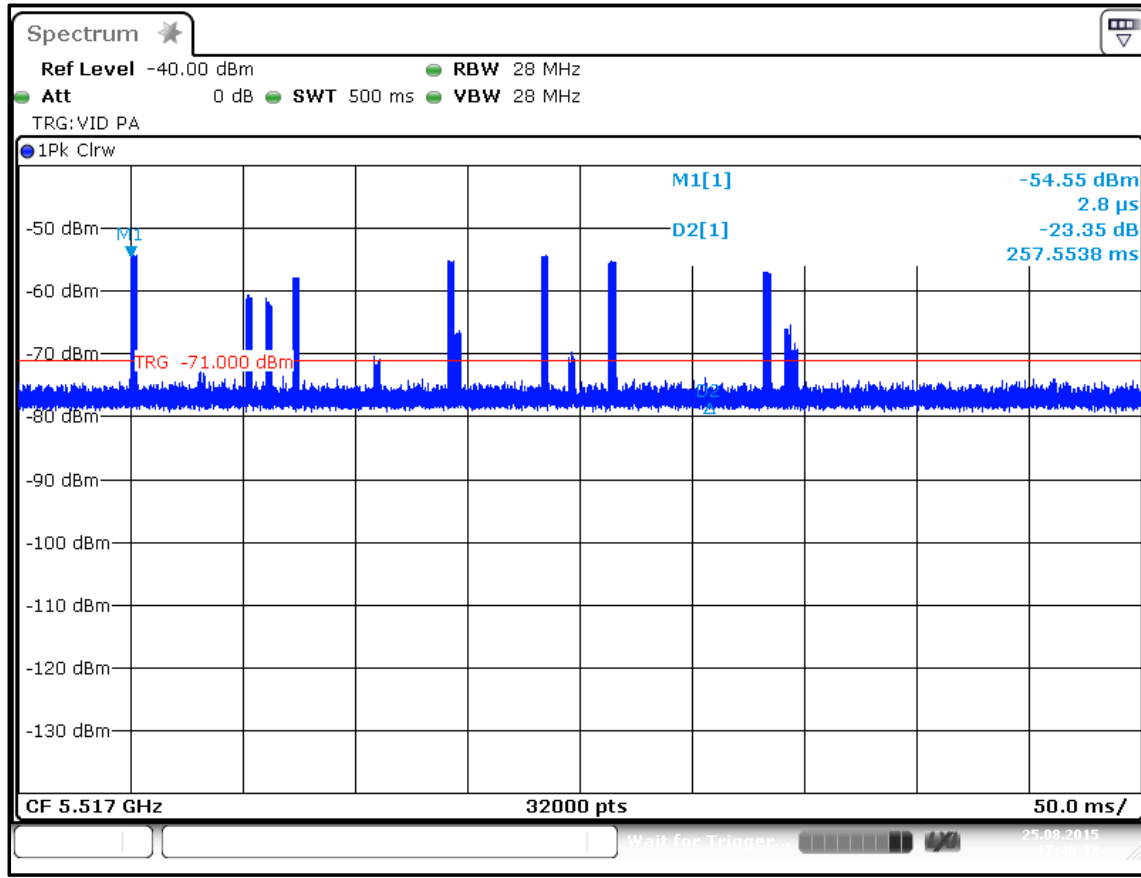
Radar Type 3 – 6 μ s pulse width, 382 μ s PRI, 16 pulses

Radar Type 4

Radar Type 4 – 11 μ s pulse width, 227 μ s PRI, 16 pulses

Radar Type 5 (Long)Long Radar Type 5

Burst Segment	Number of Pulses	Pulse Width (μs)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μs)	Pulse 2-to-3 Spacing (μs)	Starting Location Within Interval (μs)
1	3	70	20	1131	1295	14917
2	1	95	10	-	-	1304844
3	3	61	18	1032	1911	375940
4	1	56	10	-	-	844906
5	3	76	9	1042	1867	1162732
6	3	68	7	1691	1497	1216172
7	3	82	17	1890	1878	550049
8	2	96	7	1712	-	207607
9	2	75	12	1607	-	1094193

Radar Type 6 (Hopping)Hopping Radar Pulse 6 (Centre Frequency adjusted to first hop frequency)**Hopping sequence (MHz):**

5517, 5699, 5327, 5609, 5637, 5665, 5441, 5712, 5671, 5302, 5482, 5300, 5650, 5480, 5474, 5651, 5723, 5497, 5584, 5459, 5496, 5384, 5646, 5456, 5533, 5329, 5309, 5274, 5292, 5692, 5569, 5601, 5289, 5703, 5717, 5418, 5548, 5328, 5577, 5338, 5387, 5392, 5437, 5357, 5449, 5438, 5270, 5509, 5492, 5268, 5673, 5407, 5383, 5593, 5325, 5557, 5588, 5417, 5670, 5628, 5443, 5514, 5455, 5298, 5440, 5487, 5256, 5285, 5381, 5643, 5295, 5508, 5313, 5346, 5697, 5585, 5561, 5271, 5341, 5674, 5621, 5630, 5659, 5641, 5668, 5635, 5632, 5434, 5580, 5706, 5308, 5259, 5675, 5322, 5503, 5413, 5708, 5542, 5489, 5337

Appendix 4. Test platform confirmation email

From: Andrew Leimer [<mailto:Andrew.Leimer@fcc.gov>]
Sent: Friday, September 23, 2011 4:24 PM
To: Chisham, Steve
Cc: Carey, Tim; Hack, Barry; Rashmi Doshi; Joe Dichoso
Subject: RE: Certification for Aeroflex DFS solution

Hello Steve,
The Aeroflex "DXI based DFS test solution" system used for DFS alternative radar signal generation has been approved by the FCC and NTIA.
This approval permits the system to be used by labs in the testing of DFS devices for equipment authorization Certification. It is recommended that applicants that use your system for testing include a statement in the Test Report or a Letter Exhibit stating that the system has FCC and NTIA approval. This E-mail is your record of this approval.
Note that the appropriate term for your system is Approved as the term Certification is reserved for devices gaining equipment authorization through the FCC or a TCB.

Regards,
Andy Leimer

FCC/OET/EACB