



427 West 12800 South
 Draper, UT 84020

Test Report Certification

FCC ID	SWX-UFWIFI6
ISED ID	6545A-UFWIFI6
Equipment Under Test	UF-WiFi6
Test Report Serial Number	TR6783_05
Date of Test(s)	29, 30 September; 1, 3, 12 October; 3, 6 December 2021
Report Issue Date	10 January 2022

Test Specification	Applicant
47 CFR FCC Part 15, Subpart E	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.



NVLAP LAB CODE 600241-0

Certification of Engineering Report

This report has been prepared by Unified Compliance Laboratory (UCL) to document compliance of the device described below with the requirement of Federal Communication Commissions (FCC) Part 15, Subpart E. This report may be reproduced in full. Partial reproduction of this report may only be made with the written consent of the laboratory. The results in this report apply only to the sample tested.

Applicant	Ubiquiti Inc.
Manufacturer	Ubiquiti Inc.
Brand Name	UFiber
Model Number	UF-WiFi6
FCC ID	SWX-UFWIFI6
ISED ID	6545A-UFWIFI6

On this 10th day of January 2022, I individually and for Unified Compliance Laboratory certify that the statements made in this engineering report are true, complete and correct to the best of my knowledge and are made in good faith.

Although NVLAP has accredited the Unified Compliance Laboratory testing facilities, this report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the U.S. federal government.

Unified Compliance Laboratory



Written By: Joseph W. Jackson



Reviewed By: Richard L. Winter

Revision History		
Revision	Description	Date
01	Original Report Release	10 January 2022
02	Added KDB Reference in Section 5.7	14 February 2022
03	Updated Section 2.2 and Section 5.7	18 March 2022
04	Updated Section 5.7	5 April 2022
05	Correcting Detection Level and Radar Plots in Section 5.7	18 April 2022

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1 Client Information

1.1 Applicant

Company	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.
Contact Name	Mark Feil
Title	Compliance Manager

1.2 Manufacturer

Company	Ubiquiti Inc. 685 Third Avenue New York, NY 10017 U.S.A.
Contact Name	Mark Feil
Title	Compliance Manager

2 Equipment Under Test (EUT)

2.1 Identification of EUT

Brand Name	UFiber
Model Number	UF-WiFi6
Serial Number	68D79A1FA44A
Dimensions (cm)	14.2 x 14.2 x 3.2

2.2 Description of EUT

The UF-WiFi6 GPON CPE is a point-to-multipoint WiFi 6 device that provides 2.4 Gbps downstream rate and 1.2 Gbps upstream rate. The UF-WiFi6 has 4 GbE RJ45 LAN ports and 1 GPON WAN port for connection the local fiber line. The UF-WiFi6 has a 2.4 GHz (2x2) WiFi transmitter and a 5 GHz (2x2) WiFi transmitter. The UF-WiFi6 can be powered from a USB-C power adapter or a 24V PoE power adapter.

The manufacturer has declared that the information regarding the parameters of the detected radar Waveforms during normal use is not reported by the EUT or made available to the end user.

Band	Modulation Bandwidth	Frequency (MHz)
UNII-2A	20 MHz	5260, 5265, 5270, 5275, 5280, 5285, 5290, 5295, 5300, 5305, 5310, 5315, 5320
	40 MHz	5270, 5275, 5280, 5285, 5290, 5295, 5300, 5305, 5310
	80 MHz	5290
UNII-2C	20 MHz	5500, 5505, 5510, 5515, 5520, 5525, 5530, 5535, 5540, 5545, 5550, 5555, 5560, 5565, 5570, 5575, 5580, 5585, 5590, 5595, 5600, 5605*, 5610*, 5615*, 5620*, 5625*, 5630*, 5635*, 5640*, 5645*, 5650, 5655, 5660, 5665, 5670, 5675, 5680, 5685, 5690, 5695, 5700, 5705, 5710, 5715, 5720
	40 MHz	5510, 5515, 5520, 5525, 5530, 5535, 5540, 5545, 5550, 5555, 5560, 5565, 5570, 5575, 5580, 5585, 5590, 5595, 5600, 5605*, 5610*, 5615*, 5620*, 5625*, 5630*, 5635*, 5640*, 5645*, 5650, 5655, 5660, 5665, 5670, 5675, 5680, 5685, 5690, 5695, 5700, 5705, 5710
	80 MHz	5530, 5535, 5540, 5545, 5550, 5555, 5560, 5565, 5570, 5575, 5580, 5585, 5590, 5595, 5600, 5605*, 5610*, 5615*, 5620*, 5625*, 5630*, 5635*, 5640*, 5645*, 5650, 5655, 5660, 5665, 5670, 5675, 5680, 5685, 5690
* Frequency not applicable in Canada		

Table 1: UNII-2A and UNII-2C Channel Settings

This report covers the circuitry of the device subject to FCC Part 15, Subpart E. The circuitry of the device subject to FCC Part 15 Subpart B was found to be compliant and is covered under a separate Unified Compliance Laboratory test report.

2.3 EUT and Support Equipment

The EUT and support equipment used during the test are listed below.

Brand Name Model Number Serial Number	Description	Name of Interface Ports / Interface Cables
BN: UFiber MN: UF-WiFi6 SN: 68D79A1FA44A	Point-to-Point / Point-to-Multi-Point Transceiver	PoE – Shielded RJ-45 Input (4 meters) See Section 2.4 (Note 2)
BN: Ubiquiti In. MN: POE-24V-5X-HD SN: N/A	PoE Power supply	See Section 2.4
BN: Ubiquiti In. MN: GP-MO15-QC SN: N/A	USB-C Power Adapter	See Section 2.4
BN: Dell MN: XPS SN: N/A	Laptop Computer	Ethernet Non-Shielded Cat 5e to PoE PSU

Notes: (1) EUT

(2) Interface port connected to EUT (See Section 2.4)

The support equipment listed above was not modified in order to achieve compliance with this standard.

2.4 Interface Ports on EUT

Name of Ports	No. of Ports Fitted to EUT	Cable Description/Length
GPON WAN Port	1	APC/APC Cable
RJ45 Gigabit LAN Port	4	Shielded Cat 5e cable
PSU USB-C DC Jack	1	3 Conductor Cable to Power Adapter (24V, 0.5A)

2.5 Operating Environment

Power Supply	120 Volts ac
AC Mains Frequency	60 Hz
Temperature	20.8 – 22.9 °C
Humidity	20.9 – 43.8 %
Barometric Pressure	1013 mBar

2.6 Operating Modes

The UF-WiFi6 was tested using test software in order to enable to constant transmission. The measurements within this report are corrected to reference a 100% duty cycle. All emission modes of 802.11 a/n/ac/ax were investigated. All measurements are reported with the worst-case mode (802.11ax) unless otherwise stated.

2.7 EUT Exercise Software

EUT firmware version 4.4.0 was used to operate the transmitter using a constant transmit mode.

2.8 Block Diagram of Test Configuration

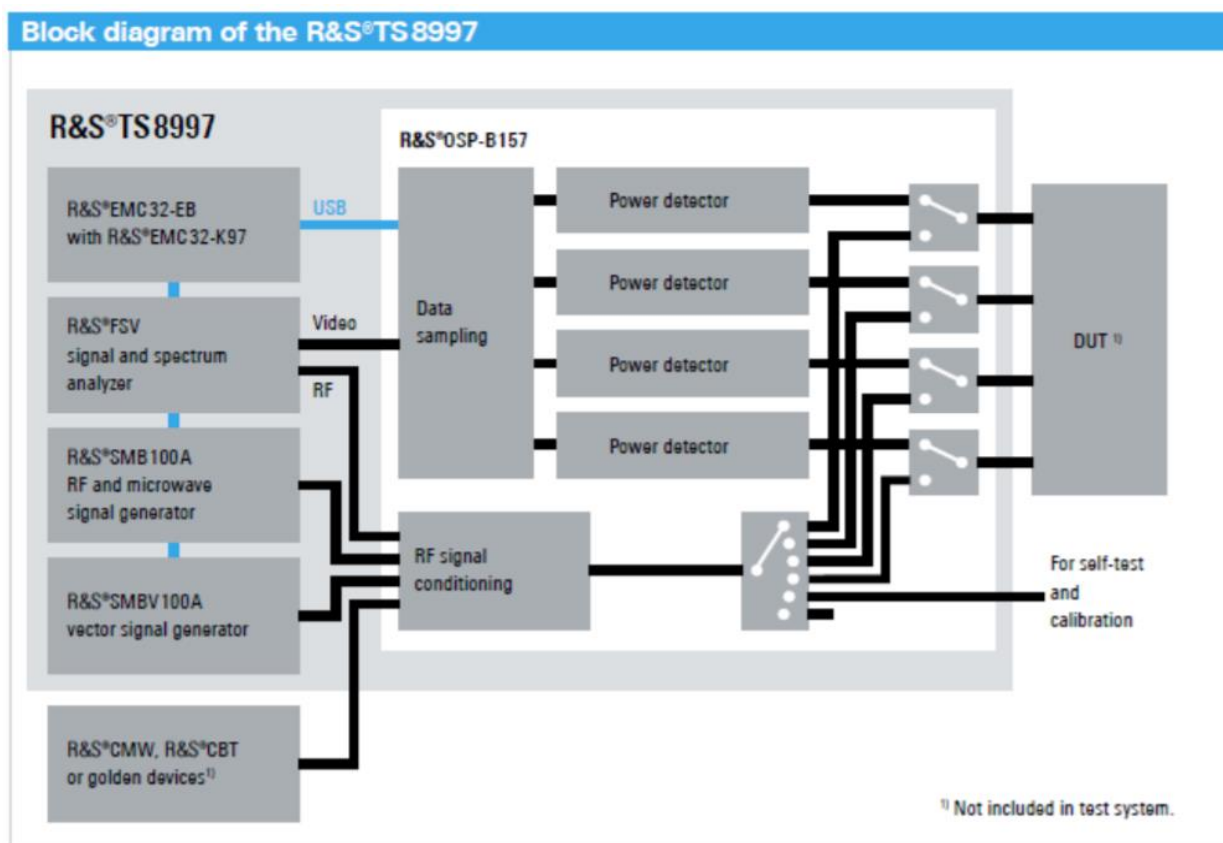


Diagram 1: Test Configuration Block Diagram

2.9 Modification Incorporated/Special Accessories on EUT

There were no modifications made to the EUT during testing to comply with the specification.

2.10 Deviation, Opinions Additional Information or Interpretations from Test Standard

There were no deviations, opinions, additional information or interpretations from the test specification.

3 Test Specification, Method and Procedures

3.1 Test Specification

Title	47 CFR FCC Part 15, Subpart E, Section 15.407 Limits and methods of measurement of radio interference characteristics of Unlicensed National Information Infrastructure Devices
Purpose of Test	The tests were performed to demonstrate initial compliance

3.2 Methods & Procedures

3.2.1 47 CFR FCC Part 15 Section 15.407

See test standard for details.

3.3 FCC Part 15, Subpart E

3.3.1 Summary of Tests

FCC Section	ISED Section	Environmental Phenomena	Frequency Range (MHZ)	Result
15.407(a)	N/A	Antenna requirements	Structural Requirement	Compliant
15.407(b)	RSS-Gen	Conducted Disturbance at Mains Port	0.15 to 30	Compliant
15.407(a)	RSS-247 §6.2.2, §6.2.3	Bandwidth Requirement	5260 to 5570	Compliant
15.407(a)	RSS-247 §6.2.2, §6.2.3	Peak Output Power	5260 to 5570	Compliant
15.407(b)	RSS-247 §6.2.2, §6.2.3	Antenna Conducted Spurious Emissions	0.009 to 40000	Compliant
15.407(b)	RSS-247 §6.2.2, §6.2.3	Radiated Spurious Emissions	0.009 to 40000	Compliant
15.407(a)	RSS-247 §6.2.2, §6.2.3	Peak Power Spectral Density	5260 to 5570	Compliant
15.407(h)	RSS-247 §6.3	DFS Requirements	5260 to 5570	Compliant
The testing was performed according to the procedures in ANSI C63.10-2013, KDB 558074 and 47 CFR Part 15. Where applicable, KDB 662911 was followed to sum required measurements.				

3.4 Results

In the configuration tested, the EUT complied with the requirements of the specification.

3.5 Test Location

Testing was performed at the Unified Compliance Laboratory 3-Meter and 10-Meter chambers located at 427 West 12800 South, Draper, UT 84020. Unified Compliance Laboratory is accredited by National Voluntary Laboratory Accreditation Program (NVLAP); NVLAP Code 600241-0 which is effective until

30 June 2022. This site has also been registered with Innovations, Science and Economic Development (ISED) department as was accepted under Appendix B, Phase 1 procedures of the APEC Tel MRA for Canadian recognition. ISED No.: 25346, effective until 30 June 2022. Unified Compliance Laboratory has been assigned Conformity Assessment Number US0223 by ISED.

4 Test Equipment

4.1 Conducted Emissions at Mains Ports

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
EMI Receiver	AFJ	FFT3010	UCL-2500	9/18/2020	3/17/2022
LISN	AFJ	LS16C/10	UCL-2512	5/26/2020	5/26/2022
Cat6 ISN	Teseq	ISN T8-Cat6	UCL-2971	5/18/2020	5/18/2022
ISN	Teseq	ISN T800	UCL-2974	6/4/2021	6/4/2022
LISN	Com-Power	LIN-120C	UCL-2612	5/19/2021	5/19/2022
AC Power Source	Laplace Instruments	AC1000A	UCL-2857	N/A	N/A
Test Software	UCL	Revision 1	UCL-3107	N/A	N/A

Table 2: List of equipment used for Conducted Emissions Testing at Mains Port

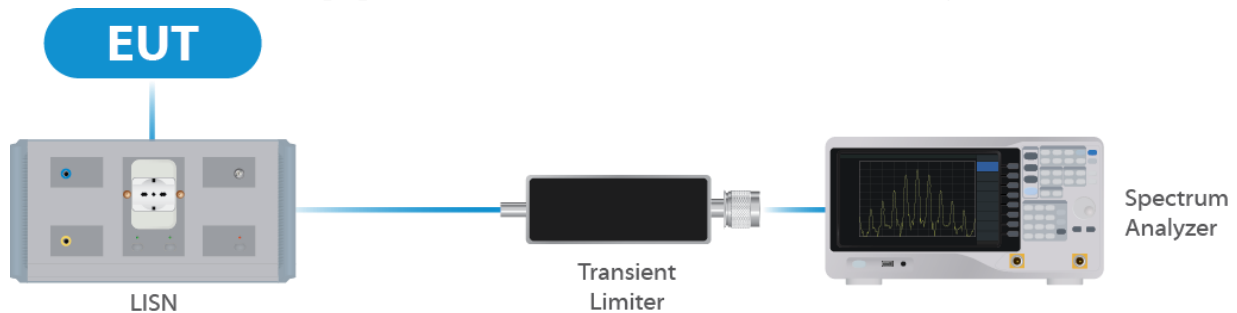


Figure 1: Conducted Emissions Test

4.2 Direct Connect at the Antenna Port Tests

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
Spectrum Analyzer	R&S	FSV40	UCL-2861	8/24/2021	12/31/2021
Signal Generator	R&S	SMB100A	UCL-2864	N/A	N/A
Vector Signal Generator	R&S	SMBV100A	UCL-2873	N/A	N/A
Switch Extension	R&S	OSP-B157WX	UCL-2867	9/8/2020	12/31/2021
Switch Extension	R&S	OSP-150W	UCL-2870	3/3/2021	3/3/2022

Table 3: List of equipment used for Direct Connect at the Antenna Port

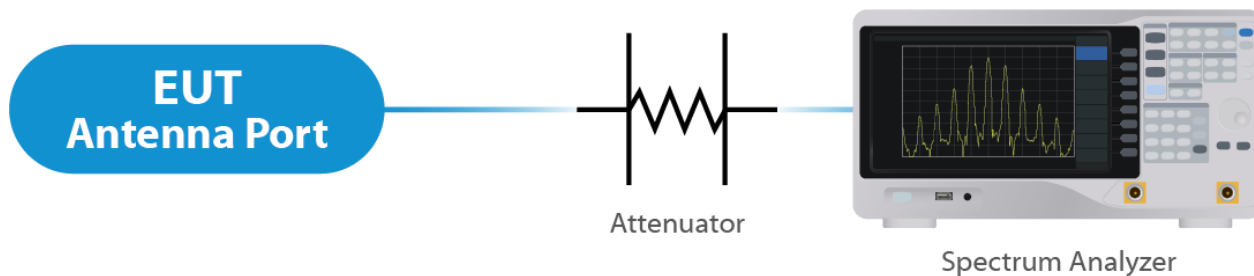


Figure 2: Direct Connect at the Antenna Port Test



Figure 3: Output Power Measurement

4.3 Radiated Emissions

Type of Equipment	Manufacturer	Model Number	Asset Number	Date of Last Calibration	Due Date of Calibration
EMI Receiver	Keysight	N9038A	UCL-2778	6/21/2021	6/21/2022
Pre-Amplifier 9 kHz – 1 GHz	Sonoma Instruments	310N	UCL-2889	10/7/2021	10/7/2022
Broadband Antenna	Scwarzbeck	VULB 9163	UCL-3062	8/28/2020	8/27/2022
Broadband Antenna	Scwarzbeck	VULB 9163	UCL-3071	5/19/2020	5/19/2022
Double Ridge Horn Antenna	Scwarzbeck	BBHA 9120D	UCL-3065	7/8/2021	7/8/2022
Log Periodic	Scwarzbeck	STLP 9129	UCL-3068	11/16/2020	11/16/2022
15 - 40 GHz Horn Antenna	Scwarzbeck	BBHA 9170	UCL-2487	5/21/2020	5/21/2022
1 – 18 GHz Amplifier	Com-Power	PAM 118A	UCL-3833	10/7/2021	10/7/2022
Test Software	UCL	Revision 1	UCL-3108	N/A	N/A

Table 4: List of equipment used for Radiated Emissions

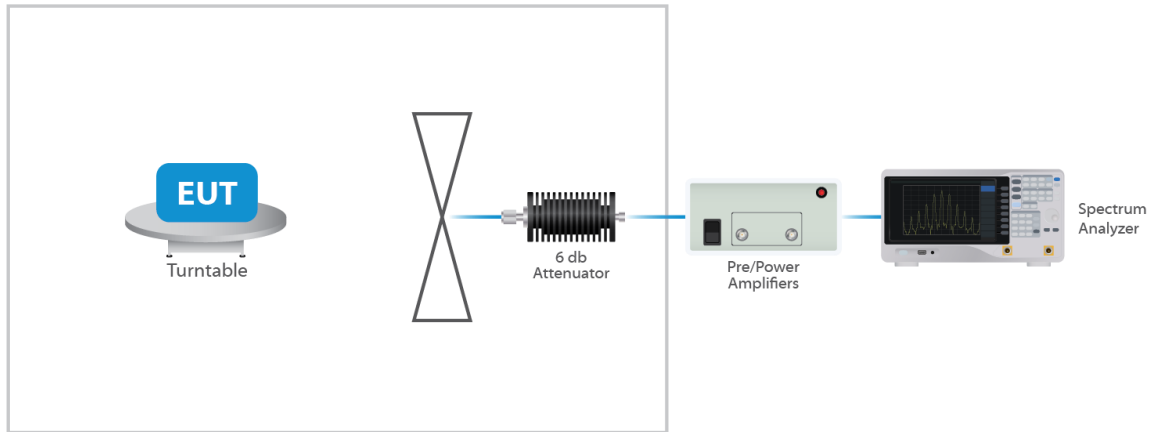


Figure 4: Radiated Emissions Test

4.4 DFS Testing

4.4.1 Master Test Set Up

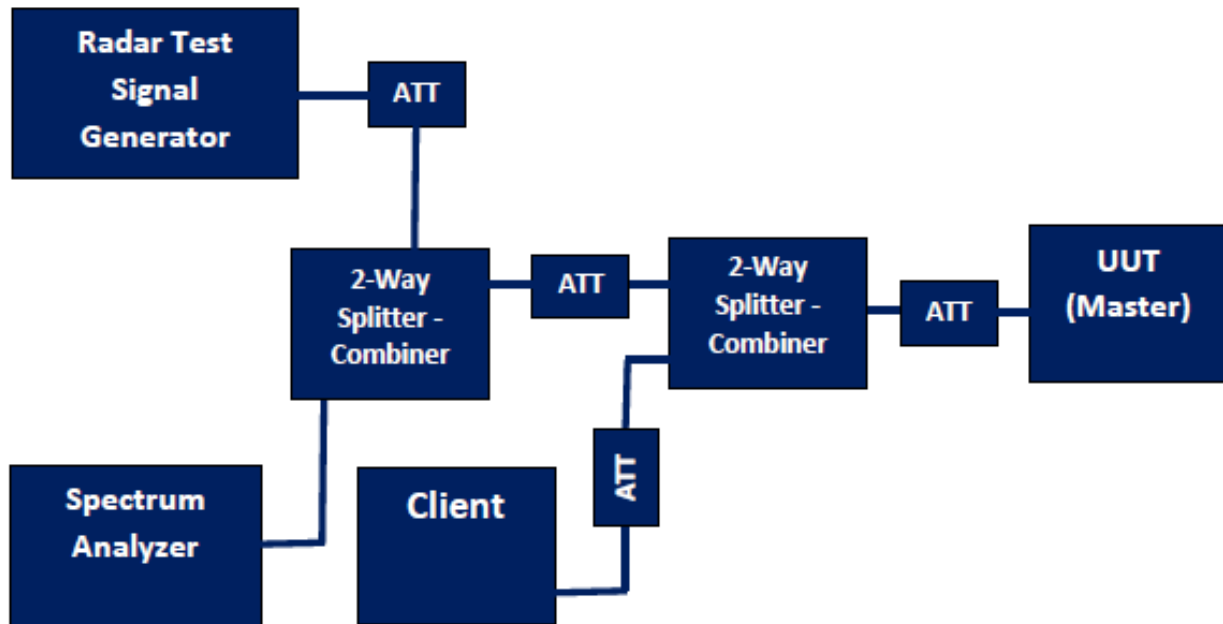


Figure 5: DFS Test Set Up - Master

4.5 Equipment Calibration

All applicable equipment is calibrated using either an independent calibration laboratory or Unified Compliance Laboratory personnel at intervals defined in ANSI C63.4:2014 following outlined calibration procedures. All measurement instrumentation is traceable to the National Institute of Standards and

Technology (NIST). Supporting documentation relative to traceability is on file and is available for examination upon request.

4.6 Measurement Uncertainty

Test	Uncertainty (\pm dB)	Confidence (%)
Conducted Emissions	1.44	95
Radiated Emissions (9 kHz to 30 MHz)	2.50	95
Radiated Emissions (30 MHz to 1 GHz)	4.38	95
Radiated Emissions (1 GHz to 18 GHz)	4.37	95
Radiated Emissions (18 GHz to 40 GHz)	3.93	95
Direct Connect Tests	K Factor	Value
Emissions Bandwidth	2	2.0%
Output Power	2	1.0 dB
Peak Power Spectral Density	2	1.3 dB
Band Edge	2	0.8 dB
Transmitter Spurious Emissions	2	1.8 dB

5 Test Results

5.1 §15.203 Antenna Requirements

The EUT uses integral folding antenna structure. The maximum gain of the antenna per chain is 2.6 dBi. This is an 802.11 device and utilizes CDD as described in KDB 662911 D01. The antenna is not user replaceable.

For power measurements on IEEE 802.11 devices, Array Gain = 0 dB for $N_{ANT} \leq 4$;

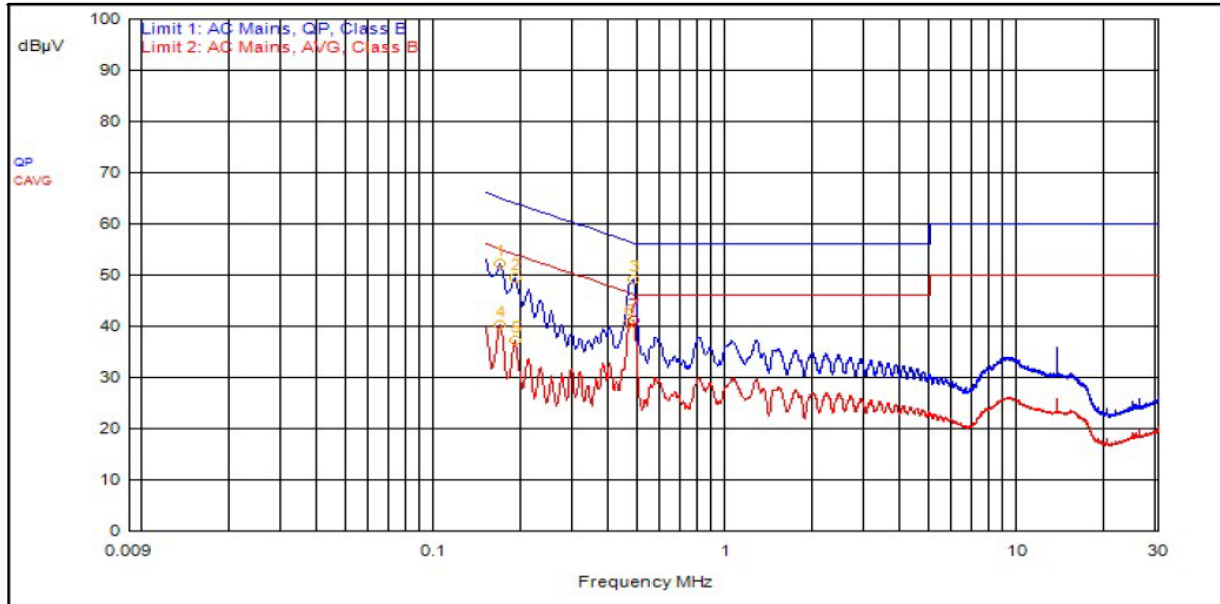
For PSD measurements when $N_{ss}=1$: Array Gain = $10 \log(N_{ant}/N_{ss})$ dB = 3.01dB

Results

The EUT complied with the specification

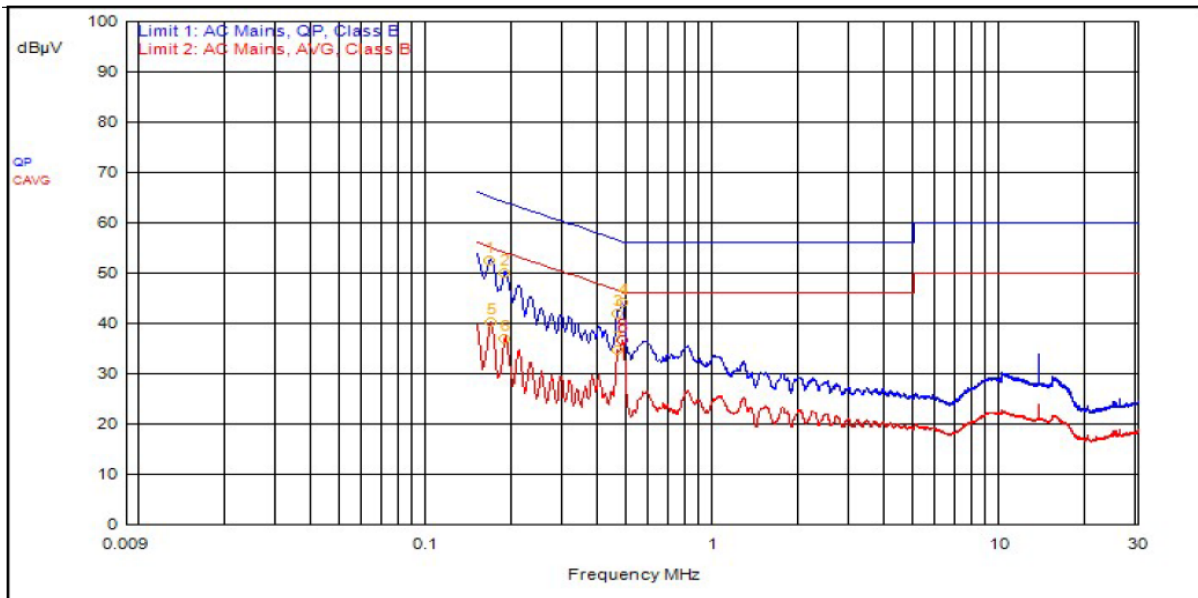
5.2 Conducted Emissions at Mains Ports Data

5.2.1 Line



ID	Frequency	Probe	Cable	Atten.	Detector	Meter Read	Meas Level	Limit 1	Limit 1 Dist.	Limit 2	Limit 2 Dist.
3	477,000kHz	12.4	0.0		QPeak	36.8	49.2	56.4	-7.2		
1	168,000kHz	12.4	0.0		QPeak	39.8	52.2	65.1	-12.9		
2	189,000kHz	12.4	0.0		QPeak	37.1	49.4	64.1	-14.6		
4	168,000kHz	12.4	0.0		C_AVG	27.9	40.3			55.1	-14.8
5	189,000kHz	12.4	0.0		C_AVG	24.7	37.1			54.1	-17.0
6	462,000kHz	12.4	0.0		C_AVG	28.1	40.5			46.7	-6.2
7	480,000kHz	12.4	0.0		C_AVG	28.7	41.1			46.3	-5.3

5.2.2 Neutral



ID	Frequency	Probe	Cable	Atten.	Detector	Meter Read	Meas Level	Limit 1	Limit 1 Dist.	Limit 2	Limit 2 Dist.
4	480,000kHz	12.4	0.0		QPeak	31.7	44.1	56.3	-12.3		
1	165,000kHz	12.4	0.0		QPeak	40.2	52.6	65.2	-12.6		
2	186,000kHz	12.4	0.0		QPeak	37.7	50.1	64.2	-14.1		
3	459,000kHz	12.4	0.0		QPeak	29.6	42.0	56.7	-14.7		
5	168,000kHz	12.4	0.0		C_AVG	27.8	40.2			55.1	-14.9
6	186,000kHz	12.4	0.0		C_AVG	24.5	36.9			54.2	-17.3
7	462,000kHz	12.4	0.0		C_AVG	22.2	34.6			46.7	-12.1
8	480,000kHz	12.4	0.0		C_AVG	24.2	36.6			46.3	-9.7

Result

The EUT complied with the specification limit.

5.3 §15.403(i) 26 dB Emissions Bandwidth

All chains were measured under the guidance of KDB 789033 Section II.C. and KDB 66291 D01. Please see associated annex for details on instrument settings.

5.3.1 UNII-2A

Bandwidth	Frequency (MHz)	99% Bandwidth (MHz)	Emissions 26 dB Bandwidth (MHz)
OFDM 20	5260	16.8	22.4
OFDM 20	5280	16.7	23.5
OFDM 20	5320	16.7	23.0
HT 20	5260	17.7	23.8
HT 20	5280	17.8	24.6
HT 20	5320	17.8	21.2
HT 40	5270	36.3	42.2
HT 40	5310	36.3	40.4
VHT 20	5260	17.8	25.1
VHT 20	5280	17.8	24.0
VHT 20	5320	17.7	23.3
VHT 40	5270	36.3	40.8
VHT 40	5310	36.3	40.5
VHT 80	5290	76.0	107.5
HE 20	5260	19.2	30.1
HE 20	5280	19.3	28.8
HE 20	5320	19.2	25.7
HE 40	5270	37.8	39.6
HE 40	5310	37.8	39.8
HE 80	5290	77.5	81.5

5.3.2 UNII-2C

Bandwidth	Frequency (MHz)	99% Bandwidth (MHz)	Emissions 26 dB Bandwidth (MHz)
OFDM 20	5500	16.8	21.8
OFDM 20	5600	16.8	22.2
OFDM 20	5720	16.5	20.1
HT 20	5500	17.9	21.5
HT 20	5600	17.9	20.7
HT 20	5720	17.9	24.9
HT 40	5510	36.3	48.3
HT 40	5590	36.3	48.6
HT 40	5710	36.3	48.0
VHT 20	5500	17.8	23.3
VHT 20	5600	17.7	20.4
VHT 20	5720	17.8	20.8
VHT 40	5510	36.3	48.9
VHT 40	5590	36.3	40.4
VHT 40	5710	36.3	40.7
VHT 80	5530	75.5	101.0
VHT 80	5610	75.5	86.0
VHT 80	5690	75.5	90.0
HE 20	5500	19.2	27.5
HE 20	5600	19.2	23.6
HE 20	5720	19.1	30.5
HE 40	5510	37.8	43.4
HE 40	5590	37.8	45.9
HE 40	5710	37.8	44.7

HE 80	5530	77.5	85.5
HE 80	5610	77.5	89.5
HE 80	5690	77.0	80.5

Result

The 26 dB bandwidths are reported for information purposes. Please see Annex for all bandwidth measurements.

5.4 §15.407(a)(2) Maximum Average Output Power

All chains were measured and summed under the guidance of KDB 789033 Section II. E.2. and KDB 66291 D01. Please see associated annex for details on instrument settings.

The maximum average RF conducted output power measured for this device was 23.99 dBm or 250 mW. The limit is 24 dBm or 250 mW when using antennas with 6 dBi or less gain. The antenna has a maximum gain of 2.6 dBi.

5.4.1 UNII-2A

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power*	Measured PSD
OFDM 20	5260	Mcs0	20.0	23.88	9.89
OFDM 20	5280	Mcs0	19.5	23.61	9.93
OFDM 20	5320	Mcs0	20.0	23.68	9.21
HT 20	5260	Mcs0	20.5	23.80	9.54
HT 20	5280	Mcs0	20.0	23.43	9.12
HT 20	5320	Mcs0	20.5	23.52	9.04
HT 40	5270	Mcs0	19.5	23.49	7.22
HT 40	5310	Mcs0	20.0	23.44	6.95
VHT 20	5260	Mcs0	20.5	23.78	9.47
VHT 20	5280	Mcs0	20.0	23.42	9.10
VHT 20	5320	Mcs0	20.5	23.57	9.05
VHT 40	5270	Mcs0	19.5	23.48	7.07
VHT 40	5310	Mcs0	20.0	23.43	6.91
VHT 80	5290	Mcs0	20.5	23.64	3.67
HE 20	5260	Mcs0	20.5	23.99	9.23
HE 20	5280	Mcs0	20.0	23.69	8.85
HE 20	5320	Mcs0	20.5	23.76	8.75
HE 40	5270	Mcs0	19.5	23.66	6.92
HE 40	5310	Mcs0	20.0	23.65	6.79
HE 80	5290	Mcs0	20.5	23.86	3.96

5.4.2 UNII-2C

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power*	Measured PSD
OFDM 20	5500	Mcs0	20.5	23.84	10.18
OFDM 20	5600	Mcs0	20.5	23.81	9.90
OFDM 20	5720	Mcs0	19.5	23.59	9.54
HT 20	5500	Mcs0	21.0	23.82	9.75
HT 20	5600	Mcs0	21.0	23.70	9.54
HT 20	5720	Mcs0	20.5	23.98	9.62
HT 40	5510	Mcs0	20.5	23.56	7.15
HT 40	5590	Mcs0	20.5	23.68	7.24
HT 40	5710	Mcs0	20.0	23.83	7.07
VHT 20	5500	Mcs0	21.0	23.77	9.58
VHT 20	5600	Mcs0	21.0	23.70	9.62
VHT 20	5720	Mcs0	20.5	23.98	9.69
VHT 40	5510	Mcs0	20.5	23.56	7.42
VHT 40	5590	Mcs0	20.5	23.76	7.73
VHT 40	5710	Mcs0	20.0	23.87	7.37
VHT 80	5530	Mcs0	21.0	23.56	4.12
VHT 80	5610	Mcs0	21.0	23.70	4.19
VHT 80	5690	Mcs0	20.5	23.45	3.54
HE 20	5500	Mcs0	21.0	23.98	9.22
HE 20	5600	Mcs0	21.0	23.93	9.31
HE 20	5720	Mcs0	20.0	23.71	8.86
HE 40	5510	Mcs0	20.5	23.81	7.36
HE 40	5590	Mcs0	20.5	23.95	7.41
HE 40	5710	Mcs0	19.5	23.57	6.75
HE 80	5530	Mcs0	21.0	23.79	4.39
HE 80	5610	Mcs0	21.0	23.94	4.37
HE 80	5690	Mcs0	20.5	23.68	3.78

Result

In the configuration tested, the maximum average RF output power was less than 1 watt; therefore, the EUT complied with the requirements of the specification.

5.5 §15.407(b) Spurious Emissions

5.5.1 Conducted Spurious Emissions

The frequency range from the lowest frequency generated or used in the device to the tenth harmonic of the highest fundamental frequency was investigated to measure any antenna-conducted emissions. The graphs show the measurement data from spurious emissions noted across the frequency range when transmitting at the lowest frequency, middle frequency and upper frequency. Shown below are plots with the EUT turned to the upper and lower channels with the antenna gain of 2.6 dBi accounted for. These demonstrate compliance with the provisions of this section at the band edges.

The emissions must be below -27 dBm EIRP.

Result

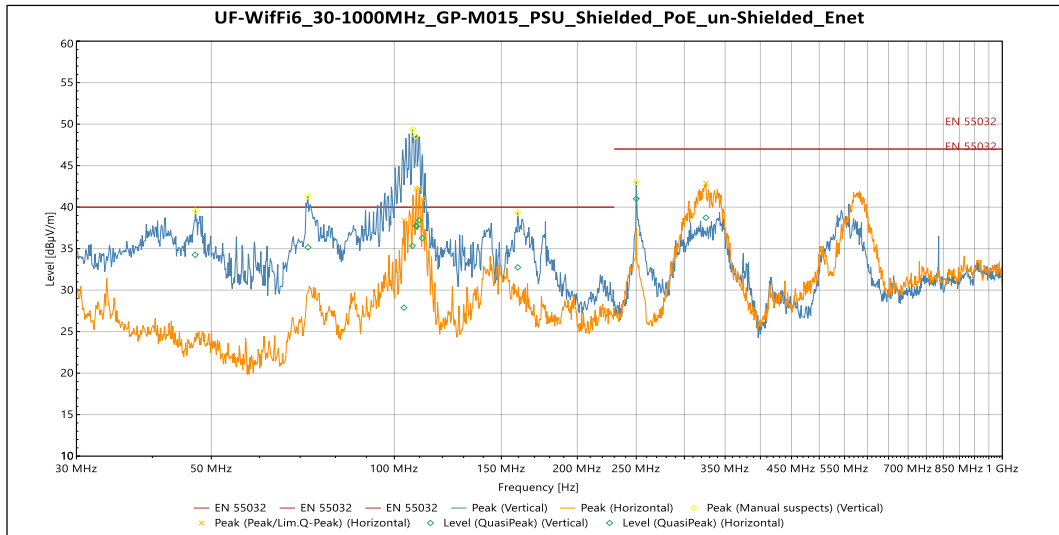
Conducted spurious emissions were below -27 dBm; therefore, the EUT complies with the specification. See Annex for results.

5.5.2 Radiated Spurious Emissions in the Restricted Bands of § 15.205

The frequency range from the lowest frequency generated or used in the device to the tenth harmonic of the highest fundamental emissions was investigated to measure any radiated emissions in the restricted bands. For frequencies above 18.0 GHz. The emissions in the restricted bands must meet the limits specified in § 15.209. Conducted measurement results are included in the Annex. Radiated data with the EUT transmitting into a load is included below. All emissions between the required frequencies were investigated, the following plots represent the worst case. The “fail” is the transmitted signal exceeding the spurious limit.

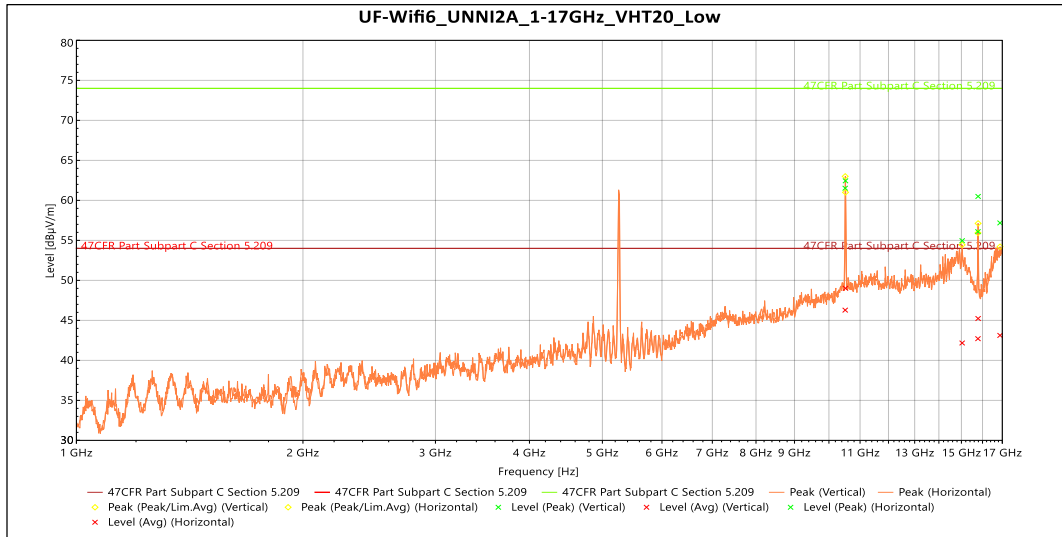
Correction Factor = Antenna Factor + Cable Loss - Pre-Amplifier Gain, and is added to the Receiver reading.

5.5.3 UNII-2A



Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin	Azimuth (°)	Height	Pol.	Meas. Time	RBW	Meas.Time	Correction (dB)
47.031 MHz	34.265	40	-5.735	187	1.136	Vertical	15	120000	0.001	-6.262
72.117 MHz	35.17	40	-4.83	150	2.034	Vertical	15	120000	0.001	-12.408
107.1 MHz	35.333	40	-4.667	306	1.134	Vertical	15	120000	0.001	-8.768
108.53 MHz	37.782	40	-2.218	85	2.038	Vertical	15	120000	0.001	-8.915
159.61 MHz	32.744	40	-7.256	260	1.315	Vertical	15	120000	0.001	-11.98
249.97 MHz	41.011	47	-5.989	298	1.136	Vertical	15	120000	0.001	-7.395
103.69 MHz	27.888	40	-12.112	106	3.304	Horizontal	15	120000	0.001	-8.315
108.82 MHz	37.669	40	-2.331	178	2.782	Horizontal	15	120000	0.001	-8.98
109.94 MHz	38.424	40	-1.576	180	2.779	Horizontal	15	120000	0.001	-9.2
111.15 MHz	36.256	40	-3.744	183	2.742	Horizontal	15	120000	0.001	-9.313
325.46 MHz	38.726	47	-8.274	205	1	Horizontal	15	120000	0.001	-5.885

Graph 1: 30 MHz – 1 GHz

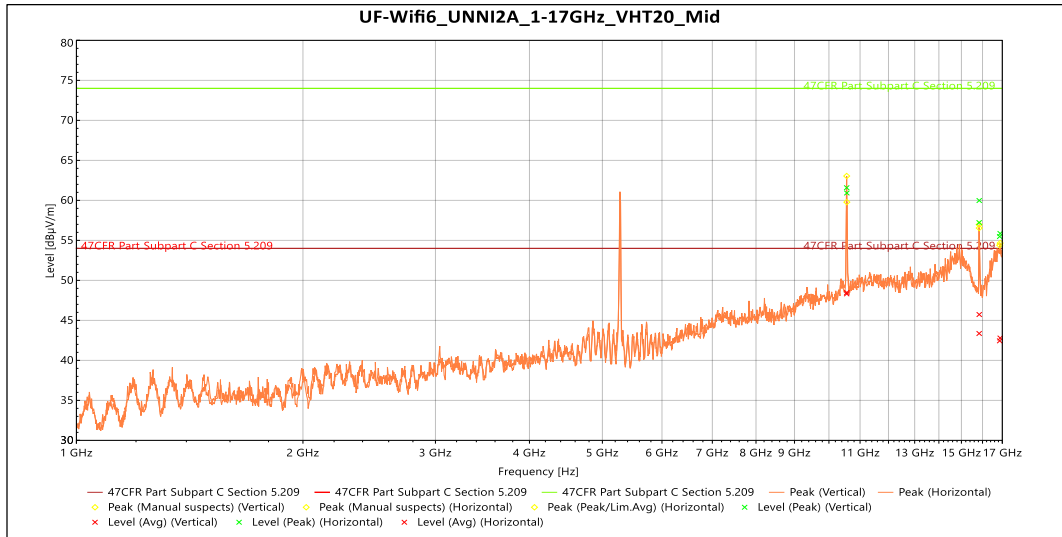

Peak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
10.511 GHz	61.517	74	-12.483	5	3.793	Vertical	4.838
15.034 GHz	54.959	74	-19.041	218	1.5	Vertical	9.901
15.779 GHz	56.088	74	-17.912	319	2.654	Vertical	5.112
10.52 GHz	62.444	74	-11.556	333	3.793	Horizontal	4.842
15.786 GHz	60.494	74	-13.506	261	1.83	Horizontal	5.027
16.882 GHz	57.177	74	-16.823	252	2.15	Horizontal	12.111

Avg

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
10.511 GHz	46.284	54	-7.716	5	3.793	Vertical	4.838
15.034 GHz	42.172	54	-11.828	218	1.5	Vertical	9.901
15.779 GHz	42.707	54	-11.293	319	2.654	Vertical	5.112
10.52 GHz	49.01	54	-4.99	333	3.793	Horizontal	4.842
15.786 GHz	45.229	54	-8.771	261	1.83	Horizontal	5.027
16.882 GHz	43.12	54	-10.88	252	2.15	Horizontal	12.111

Graph 2: 1 GHz – 17 GHz Lowest Channel

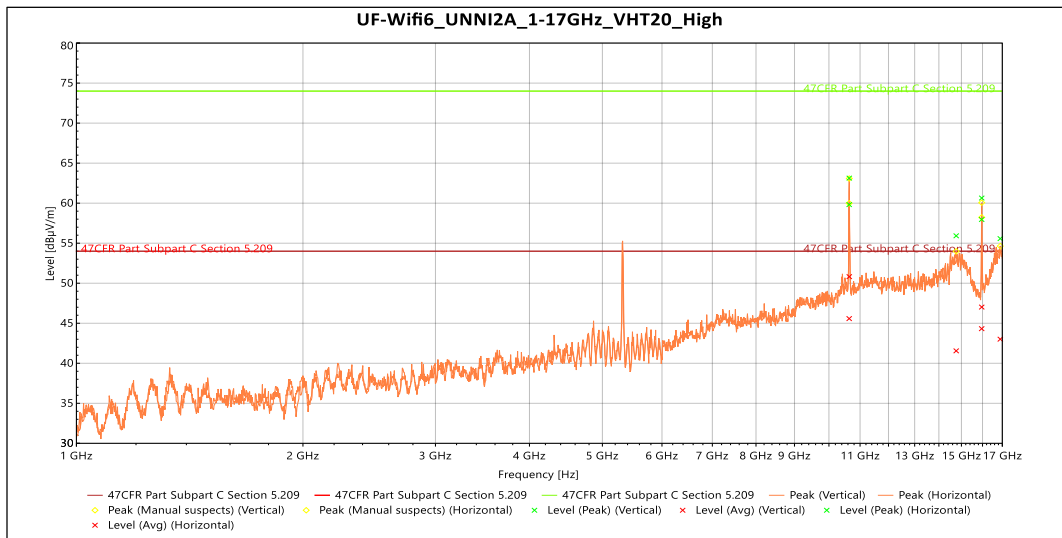

Peak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
10.559 GHz	61.579	74	-12.421	54	1.829	Vertical	4.752
15.84 GHz	59.984	74	-14.016	329	2.15	Vertical	4.805
16.864 GHz	55.483	74	-18.517	184	3.157	Vertical	11.848
10.563 GHz	60.924	74	-13.076	328	3.793	Horizontal	4.671
15.837 GHz	57.218	74	-16.782	295	3.307	Horizontal	4.917
16.889 GHz	55.86	74	-18.14	189	3.302	Horizontal	12.016

Avg

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
10.559 GHz	48.307	54	-5.693	54	1.829	Vertical	4.752
15.84 GHz	45.726	54	-8.274	329	2.15	Vertical	4.805
16.864 GHz	42.443	54	-11.557	184	3.157	Vertical	11.848
10.563 GHz	48.476	54	-5.524	328	3.793	Horizontal	4.671
15.837 GHz	43.364	54	-10.636	295	3.307	Horizontal	4.917
16.889 GHz	42.787	54	-11.213	189	3.302	Horizontal	12.016

Graph 3: 1 GHz – 17 GHz Middle Channel

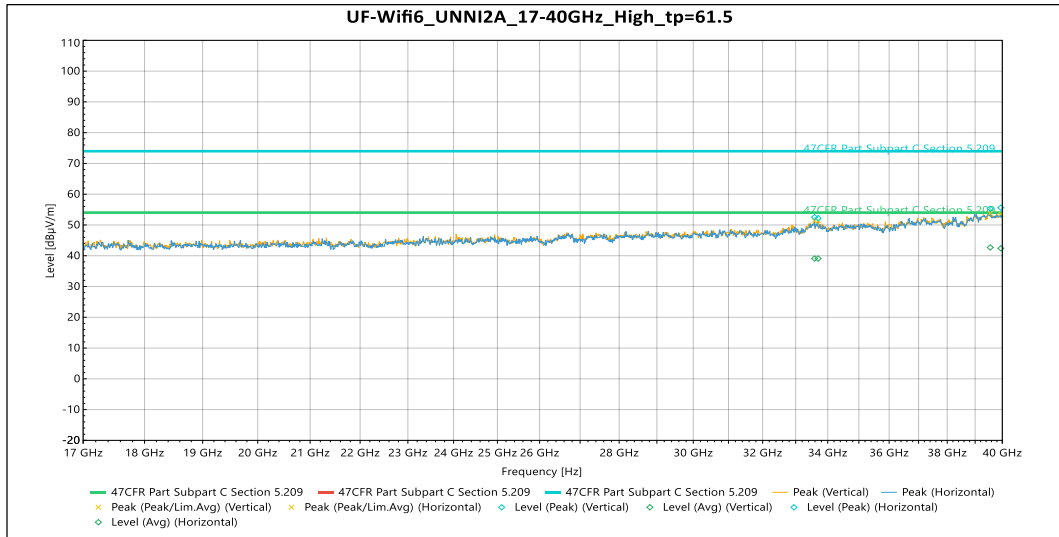

Peak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
10.643 GHz	63.134	74	-10.866	53	1.83	Vertical	5.058
14.762 GHz	55.917	74	-18.083	194	1.643	Vertical	8.887
15.96 GHz	57.958	74	-16.042	347	2.146	Vertical	4.705
10.64 GHz	59.821	74	-14.179	68	3.793	Horizontal	5.078
15.962 GHz	60.637	74	-13.363	265	1.5	Horizontal	4.667
16.894 GHz	55.568	74	-18.432	340	1.647	Horizontal	11.966

Avg

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
10.643 GHz	50.819	54	-3.181	53	1.83	Vertical	5.058
14.762 GHz	41.55	54	-12.45	194	1.643	Vertical	8.887
15.96 GHz	44.319	54	-9.681	347	2.146	Vertical	4.705
10.64 GHz	45.58	54	-8.42	68	3.793	Horizontal	5.078
15.962 GHz	47.021	54	-6.979	265	1.5	Horizontal	4.667
16.894 GHz	43.015	54	-10.985	340	1.647	Horizontal	11.966

Graph 4: 1 GHz – 17 GHz Highest Channel



Peak

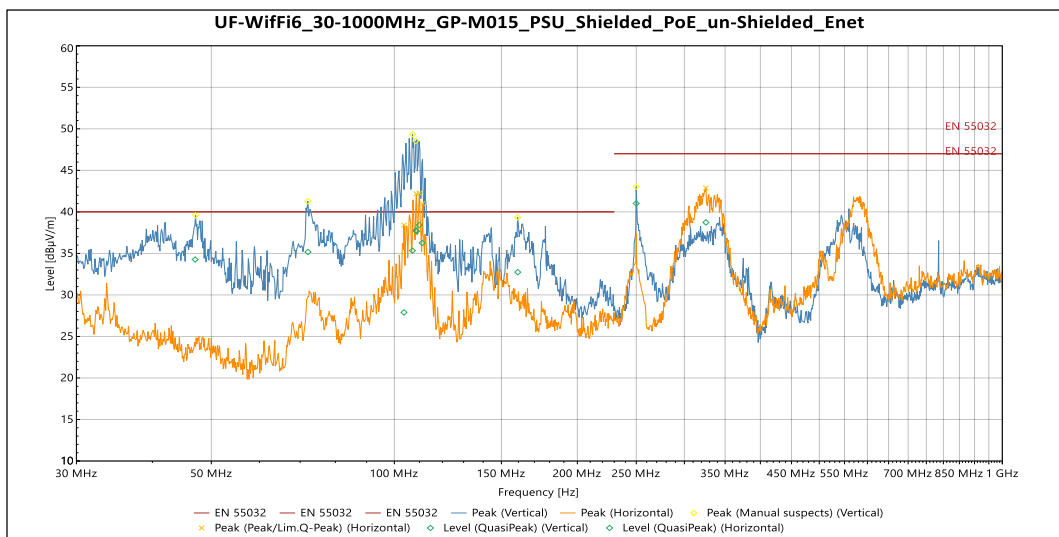
Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
33.697 GHz	52.213	74	-21.787	246	Vertical	0.989
39.945 GHz	55.637	74	-18.363	22	Vertical	3.584
33.585 GHz	52.542	74	-21.458	83	Horizontal	0.892
39.553 GHz	55.313	74	-18.687	127	Horizontal	3.281

Avg

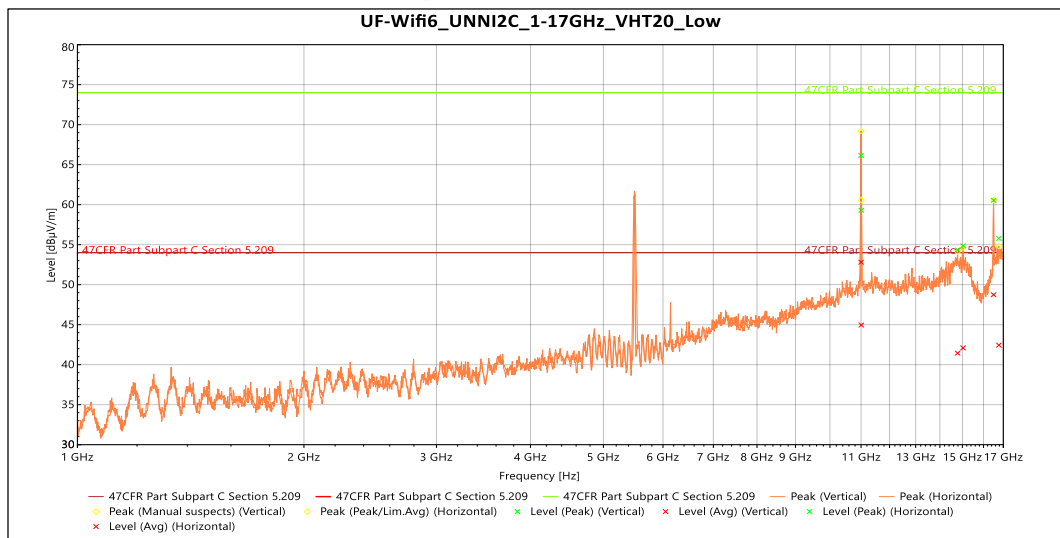
Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
33.697 GHz	39.096	54	-14.904	246	Vertical	0.989
39.945 GHz	42.424	54	-11.576	22	Vertical	3.584
33.585 GHz	39.086	54	-14.914	83	Horizontal	0.892
39.553 GHz	42.689	54	-11.311	127	Horizontal	3.281

Graph 5: 17 GHz – 40 GHz High (worse case)

5.5.4 UNII-2C



Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin	Azimuth (°)	Height	Pol.	Meas. Time	RBW	Meas.Time	Correction (dB)
47.031 MHz	34.265	40	-5.735	187	1.136	Vertical	15	120000	0.001	-6.262
72.117 MHz	35.17	40	-4.83	150	2.034	Vertical	15	120000	0.001	-12.408
107.1 MHz	35.333	40	-4.667	306	1.134	Vertical	15	120000	0.001	-8.768
108.53 MHz	37.782	40	-2.218	85	2.038	Vertical	15	120000	0.001	-8.915
159.61 MHz	32.744	40	-7.256	260	1.315	Vertical	15	120000	0.001	-11.98
249.97 MHz	41.011	47	-5.989	298	1.136	Vertical	15	120000	0.001	-7.395
103.69 MHz	27.888	40	-12.112	106	3.304	Horizontal	15	120000	0.001	-8.315
108.82 MHz	37.669	40	-2.331	178	2.782	Horizontal	15	120000	0.001	-8.98
109.94 MHz	38.424	40	-1.576	180	2.779	Horizontal	15	120000	0.001	-9.2
111.15 MHz	36.256	40	-3.744	183	2.742	Horizontal	15	120000	0.001	-9.313
325.46 MHz	38.726	47	-8.274	205	1	Horizontal	15	120000	0.001	-5.885

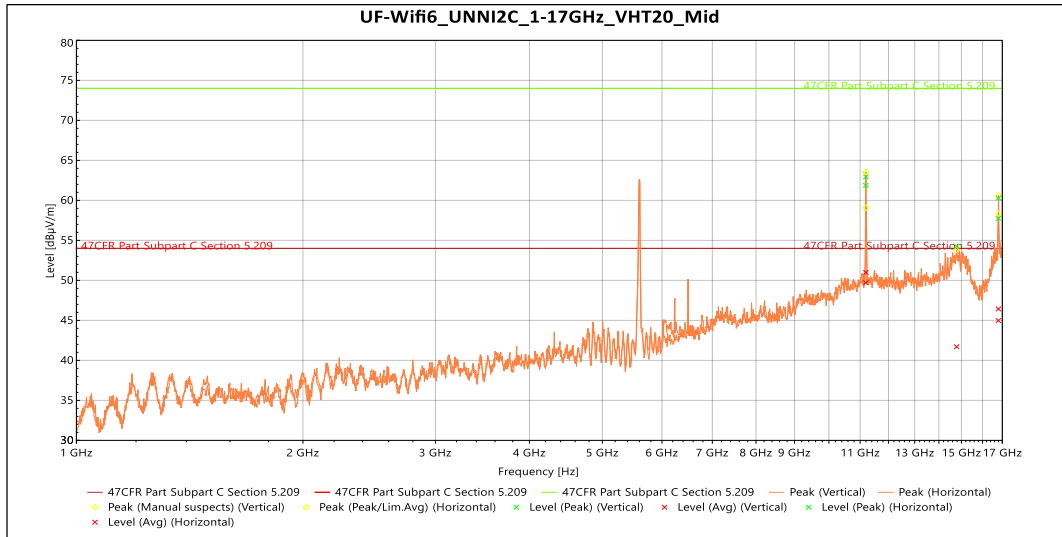
Graph 6: 30 MHz – 1 GHz

Peak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
11 GHz	66.145	74	-7.855	54	2.654	Vertical	4.98
15.029 GHz	54.863	74	-19.137	216	3.157	Vertical	10.174
16.502 GHz	60.553	74	-13.447	50	1.5	Vertical	8.634
11.008 GHz	59.296	74	-14.704	122	3.798	Horizontal	5.093
14.783 GHz	54.326	74	-19.674	19	3.307	Horizontal	9.238
16.771 GHz	55.78	74	-18.22	310	3.793	Horizontal	11.557

Avg

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
11 GHz	52.815	54	-1.185	54	2.654	Vertical	4.98
15.029 GHz	42.101	54	-11.899	216	3.157	Vertical	10.174
16.502 GHz	48.741	54	-5.259	50	1.5	Vertical	8.634
11.008 GHz	44.958	54	-9.042	122	3.798	Horizontal	5.093
14.783 GHz	41.439	54	-12.561	19	3.307	Horizontal	9.238
16.771 GHz	42.439	54	-11.561	310	3.793	Horizontal	11.557

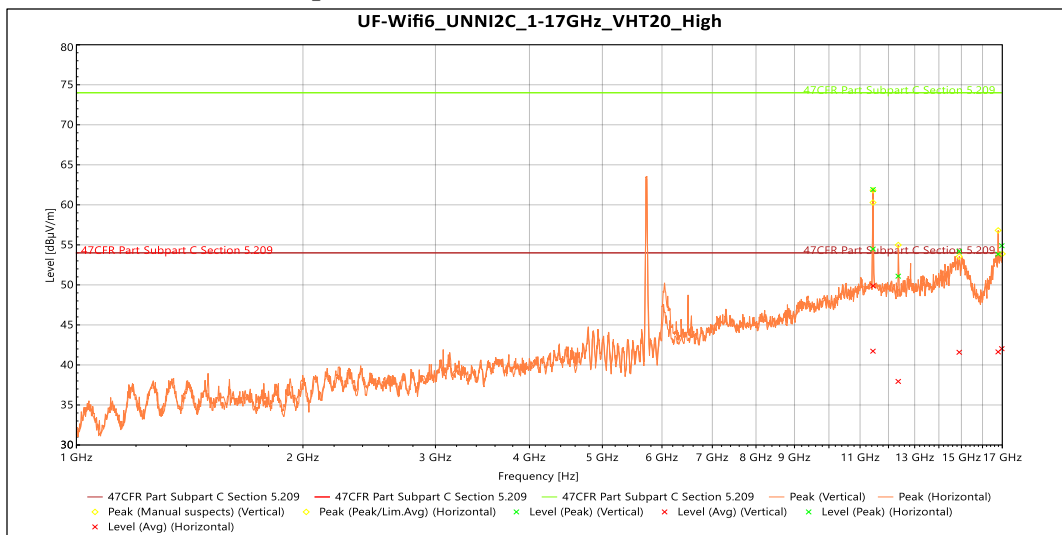
Graph 7: 1 GHz – 17 GHz Lowest Channel


Peak

Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
11.197 GHz	61.869	74	-12.131	358	3.302	Vertical	4.625
16.795 GHz	57.746	74	-16.254	223	2.812	Vertical	11.572
11.198 GHz	62.927	74	-11.073	75	3.302	Horizontal	4.635
14.782 GHz	54.268	74	-19.732	238	2.321	Horizontal	9.222
16.8 GHz	60.286	74	-13.714	51	2.65	Horizontal	11.494

Avg

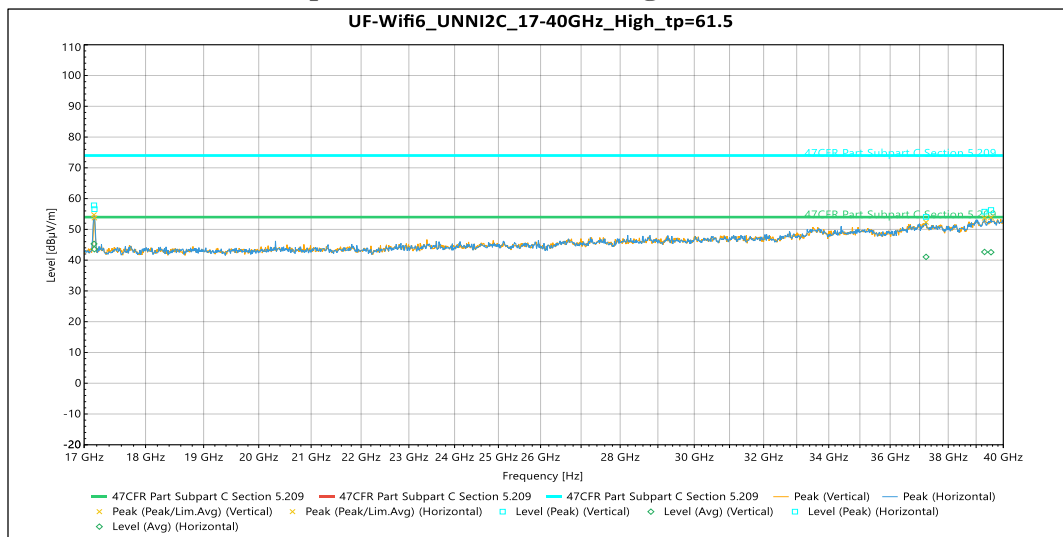
Frequency	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
11.197 GHz	49.7	54	-4.3	358	3.302	Vertical	4.625
16.795 GHz	44.969	54	-9.031	223	2.812	Vertical	11.572
11.198 GHz	50.989	54	-3.011	75	3.302	Horizontal	4.635
14.782 GHz	41.698	54	-12.302	238	2.321	Horizontal	9.222
16.8 GHz	46.428	54	-7.572	51	2.65	Horizontal	11.494

Graph 8: 1 GHz – 17 GHz Middle Channel

Peak

Frequency	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
11.445 GHz	61.913	74	-12.087	341	1.83	Vertical	5.318
14.9 GHz	54.195	74	-19.805	83	2.15	Vertical	9.784
17 GHz	54.888	74	-19.112	334	2.654	Vertical	11.412
11.443 GHz	54.484	74	-19.516	123	3.793	Horizontal	5.233
12.363 GHz	51.094	74	-22.906	326	1.5	Horizontal	5.351
16.785 GHz	53.844	74	-20.156	192	3.662	Horizontal	11.587

Avg

Frequency	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Azimuth (°)	Height (m)	Pol.	Correction (dB)
11.445 GHz	49.877	54	-4.123	341	1.83	Vertical	5.318
14.9 GHz	41.577	54	-12.423	83	2.15	Vertical	9.784
17 GHz	42.029	54	-11.971	334	2.654	Vertical	11.412
11.443 GHz	41.721	54	-12.279	123	3.793	Horizontal	5.233
12.363 GHz	37.94	54	-16.06	326	1.5	Horizontal	5.351
16.785 GHz	41.635	54	-12.365	192	3.662	Horizontal	11.587

Graph 9: 1 GHz – 17 GHz Highest Channel

Peak

Frequency	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
17.164 GHz	56.557	74	-17.443	194	Vertical	-5.316
39.307 GHz	55.749	74	-18.251	174	Vertical	3.327
17.157 GHz	57.81	74	-16.19	246	Horizontal	-5.293
37.224 GHz	54.04	74	-19.96	352	Horizontal	1.511
39.544 GHz	56.288	74	-17.712	218	Horizontal	3.233

Avg

Frequency	Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Azimuth (°)	Pol.	Correction (dB)
17.164 GHz	43.546	54	-10.454	194	Vertical	-5.316
39.307 GHz	42.665	54	-11.335	174	Vertical	3.327
17.157 GHz	45.291	54	-8.709	246	Horizontal	-5.293
37.224 GHz	41.051	54	-12.949	352	Horizontal	1.511
39.544 GHz	42.565	54	-11.435	218	Horizontal	3.233

Graph 10: 16 GHz – 40 GHz High (worse case)

5.6 §15.407(a) Maximum Power Spectral Density

All chains were measured and summed under the guidance of KDB 789033 Section II. F. and KDB 66291 D01. Please see associated annex for details on instrument settings.

The maximum average power spectral density conducted from the intentional radiator of the antenna shall not be greater than 11 dBm in any 1 MHz band during any time interval of continuous transmission.

Results of this testing are summarized. With a 2.6 dBi antenna, the conducted limit for power spectral density is 11 dBm. As per KDB 662911, When the EUT is using spatial-multiplexing in HT to HE modes, there is not additional array gain to accommodate. When the EUT uses Nss=1 data rates, the antenna gain is 2.6 dBi + Array gain of 3.01 dB which is a total of 5.61 dBi

Results of this testing are summarized.

5.6.1 UNII-2A

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power*	Measured PSD
OFDM 20	5260	Mcs0	20.0	23.88	9.89
OFDM 20	5280	Mcs0	19.5	23.61	9.93
OFDM 20	5320	Mcs0	20.0	23.68	9.21
HT 20	5260	Mcs0	20.5	23.80	9.54
HT 20	5280	Mcs0	20.0	23.43	9.12
HT 20	5320	Mcs0	20.5	23.52	9.04
HT 40	5270	Mcs0	19.5	23.49	7.22
HT 40	5310	Mcs0	20.0	23.44	6.95
VHT 20	5260	Mcs0	20.5	23.78	9.47
VHT 20	5280	Mcs0	20.0	23.42	9.10
VHT 20	5320	Mcs0	20.5	23.57	9.05
VHT 40	5270	Mcs0	19.5	23.48	7.07
VHT 40	5310	Mcs0	20.0	23.43	6.91
VHT 80	5290	Mcs0	20.5	23.64	3.67
HE 20	5260	Mcs0	20.5	23.99	9.23
HE 20	5280	Mcs0	20.0	23.69	8.85
HE 20	5320	Mcs0	20.5	23.76	8.75
HE 40	5270	Mcs0	19.5	23.66	6.92
HE 40	5310	Mcs0	20.0	23.65	6.79

HE 80	5290	Mcs0	20.5	23.86	3.96
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5.6.2 UNII-2C

Modulation (BW)	Frequency (MHz)	Data Rate	TP Setting	Conducted Output Power*	Measured PSD
OFDM 20	5500	Mcs0	20.5	23.84	10.18
OFDM 20	5600	Mcs0	20.5	23.81	9.90
OFDM 20	5720	Mcs0	19.5	23.59	9.54
HT 20	5500	Mcs0	21.0	23.82	9.75
HT 20	5600	Mcs0	21.0	23.70	9.54
HT 20	5720	Mcs0	20.5	23.98	9.62
HT 40	5510	Mcs0	20.5	23.56	7.15
HT 40	5590	Mcs0	20.5	23.68	7.24
HT 40	5710	Mcs0	20.0	23.83	7.07
VHT 20	5500	Mcs0	21.0	23.77	9.58
VHT 20	5600	Mcs0	21.0	23.70	9.62
VHT 20	5720	Mcs0	20.5	23.98	9.69
VHT 40	5510	Mcs0	20.5	23.56	7.42
VHT 40	5590	Mcs0	20.5	23.76	7.73
VHT 40	5710	Mcs0	20.0	23.87	7.37
VHT 80	5530	Mcs0	21.0	23.56	4.12
VHT 80	5610	Mcs0	21.0	23.70	4.19
VHT 80	5690	Mcs0	20.5	23.45	3.54
HE 20	5500	Mcs0	21.0	23.98	9.22
HE 20	5600	Mcs0	21.0	23.93	9.31
HE 20	5720	Mcs0	20.0	23.71	8.86
HE 40	5510	Mcs0	20.5	23.81	7.36
HE 40	5590	Mcs0	20.5	23.95	7.41
HE 40	5710	Mcs0	19.5	23.57	6.75
HE 80	5530	Mcs0	21.0	23.79	4.39
HE 80	5610	Mcs0	21.0	23.94	4.37

HE 80	5690	Mcs0	20.5	23.68	3.78
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Result

The maximum average power spectral density was less than the limit of 11 dBm; therefore, the EUT complies with the specification.

5.7 DFS Requirement

This product is a master with radar detection. The outcome of the required DFS tests is provided below. DFS testing followed the test procedures as outlined in KDB 9054462.

The product passes all required DFS tests for a master with radar detection.

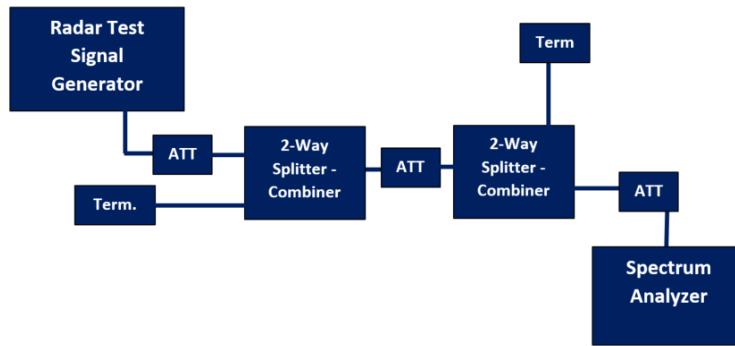
Information	Status
Possible Antenna/s	2.6 dBi integral
Antenna used for test	2.6 dBi integral
Operating mode	Master
Port used for testing	COM1
EIRP range	< 500 milliwatt
Impedance of port	50 ohms
Channel loading technique	Data transfer was enacted to achieve a minimum channel loading of approximately 17%
Antenna measurement technique	See note 1
Time of power-on cycle	61.5 seconds
Detection threshold level	-63 dBm

*Note 1: The UF-WiFi6 was designed in Ansys HFSS, industry-leading full-wave 3D electromagnetic simulation software. The hardware was measured against calibrated standard gain horn antennas in two internal Ubiquiti antenna chambers. The first antenna test chamber is a spherical near-field chamber manufactured by The Howland Company. This chamber measures the complex spherical near-field radiated power and computes the near-field to far-field transformation to accurately measure the directivity and realized gain of the antenna under test. The second chamber is a Compact Antenna Test Range (CATR). The compact range radiates a spherical wavefront from a fixed source into a parabolic reflector which collimates the signal into a plane wave to uniformly illuminate the antenna under test. This method is commonly used to accurately measure large antenna structures' directivity and realized gain.

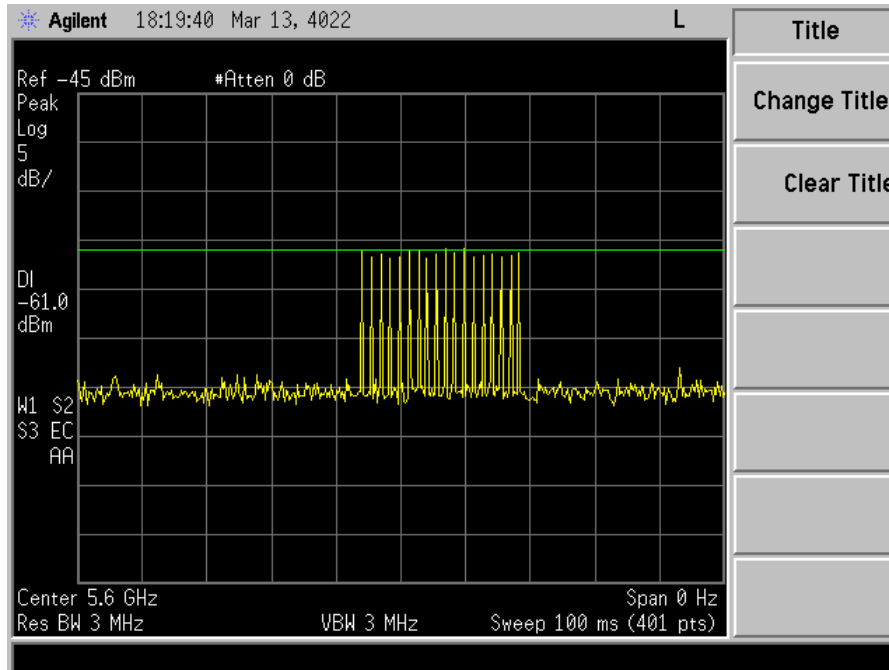
Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
<i>Non-Occupancy Period</i>	Yes	Not Required	Yes
<i>DFS Detection Threshold</i>	Yes	Not Required	Yes
<i>Channel Availability Check Time</i>	Yes	Not Required	Not Required
<i>U-NII Detection Bandwidth</i>	Yes	Not Required	Yes

Requirement	Operational Mode	
	Master Client Without Radar Detection	Client With Radar Detection
<i>DFS Detection Threshold</i>	Yes	Not Required
<i>Channel Closing Transmission Time</i>	Yes	Yes
<i>Channel Move Time</i>	Yes	Yes
<i>U-NII Detection Bandwidth</i>	Yes	Not Required

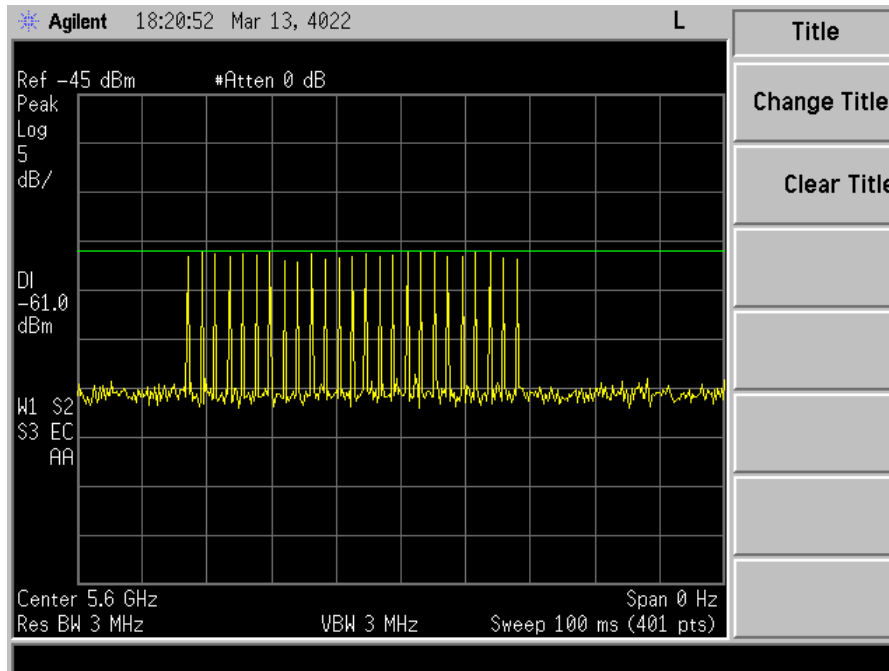
5.7.1 DFS Threshold Level



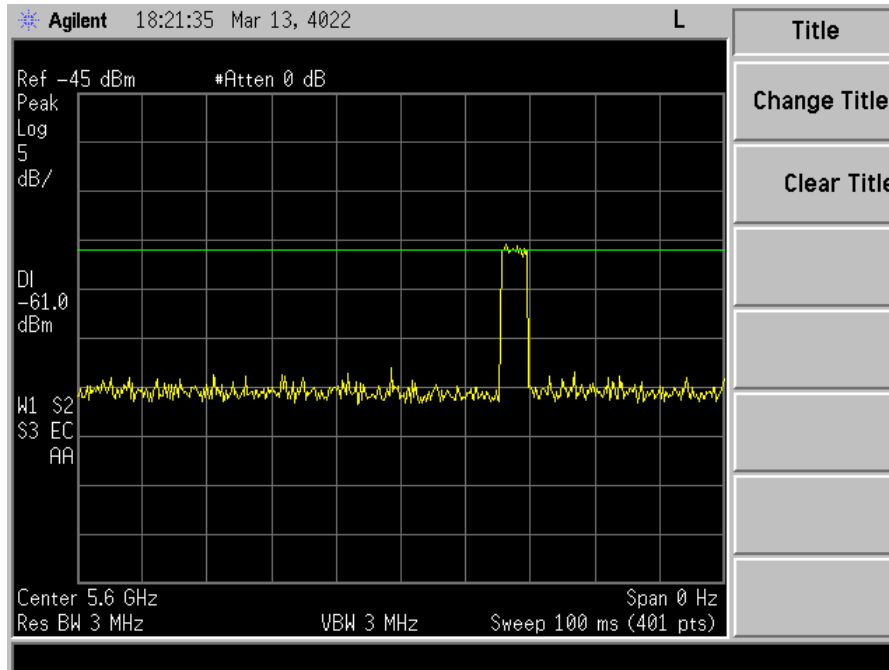
Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP \geq 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
<p>Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p>Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.</p> <p>Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p>	



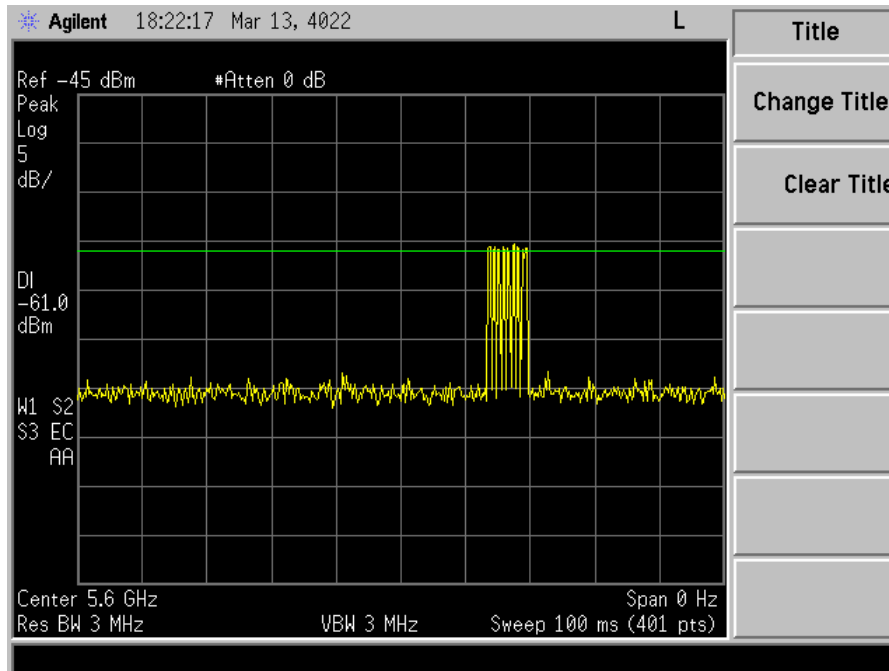
Plot 1: Radar Level 0



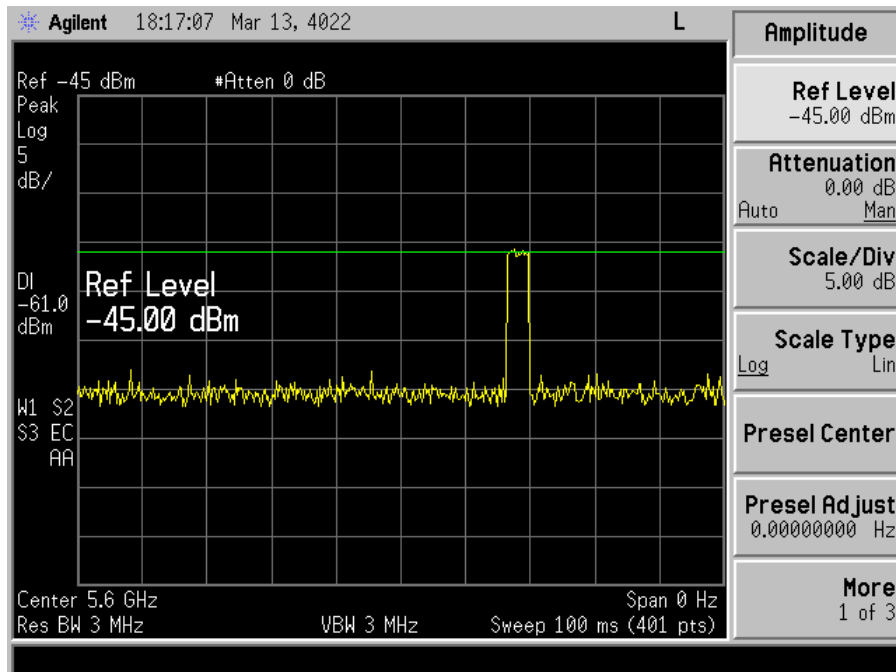
Plot 2: Radar Level 1



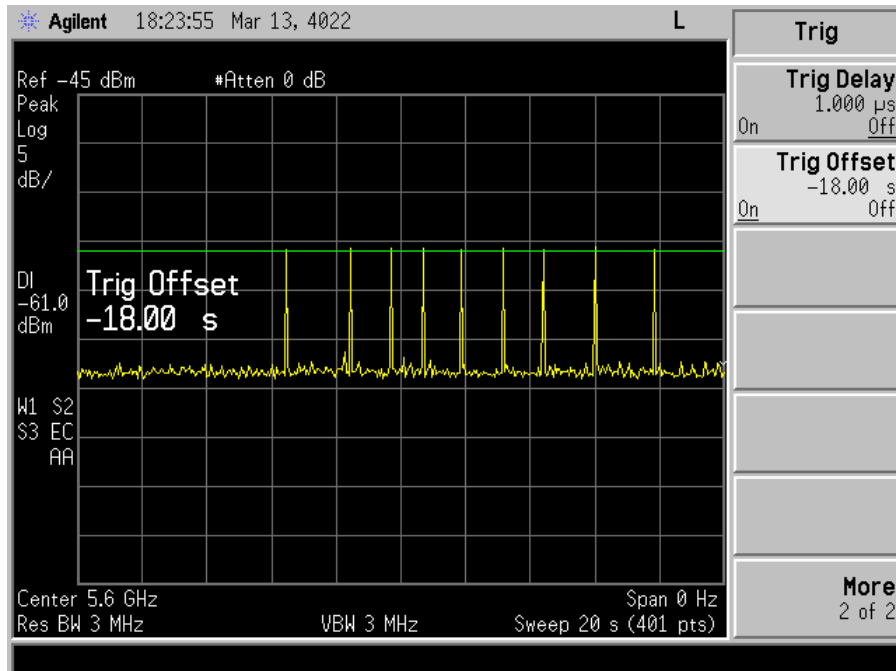
Plot 3: Radar Level 2



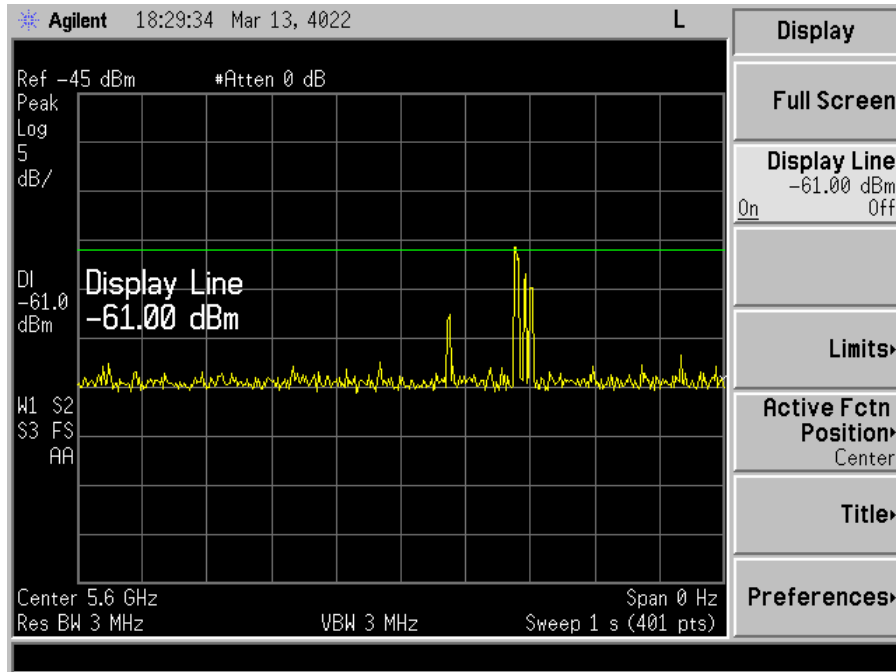
Plot 4: Radar Level 3



Plot 5: Radar Level 4



Plot 6: Radar Level 5



Plot 7: Radar Level 6

5.7.2 Channel Availability Check (CAC)

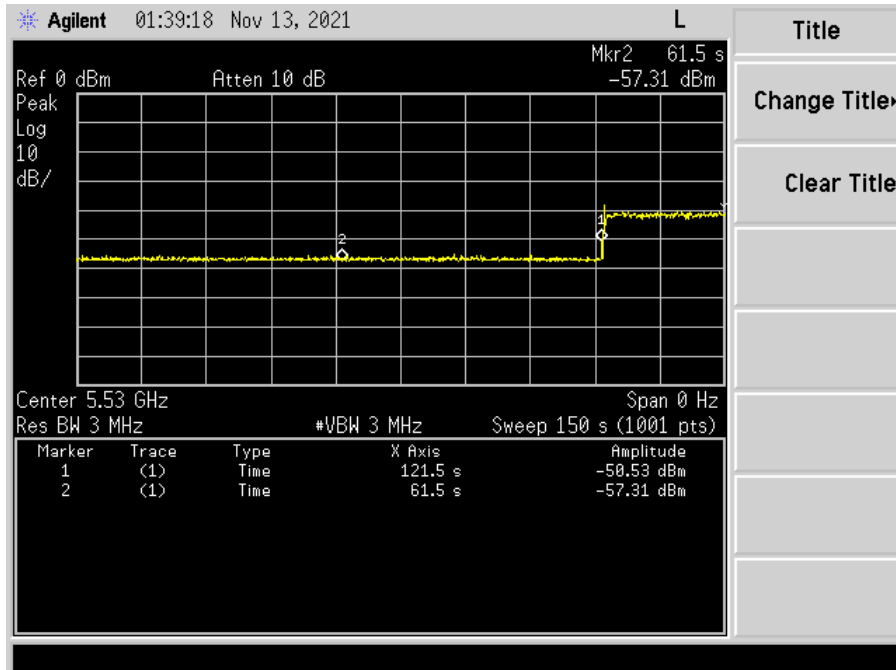
The EUT shall perform a CAC to ensure that there is no radar operating on the channel. After the power-up sequence, at-least 1 minute shall be monitored on the intended operating frequency.

For initial CAC, the EUT does not emit beacon, control, or data signals on the test channel until the power-up sequence has been completed and the UNII device checks for radar waveforms for one minute on the test channel. This test does not use any radar waveforms. The markers in the associated plots within the annex indicate initial beacons.

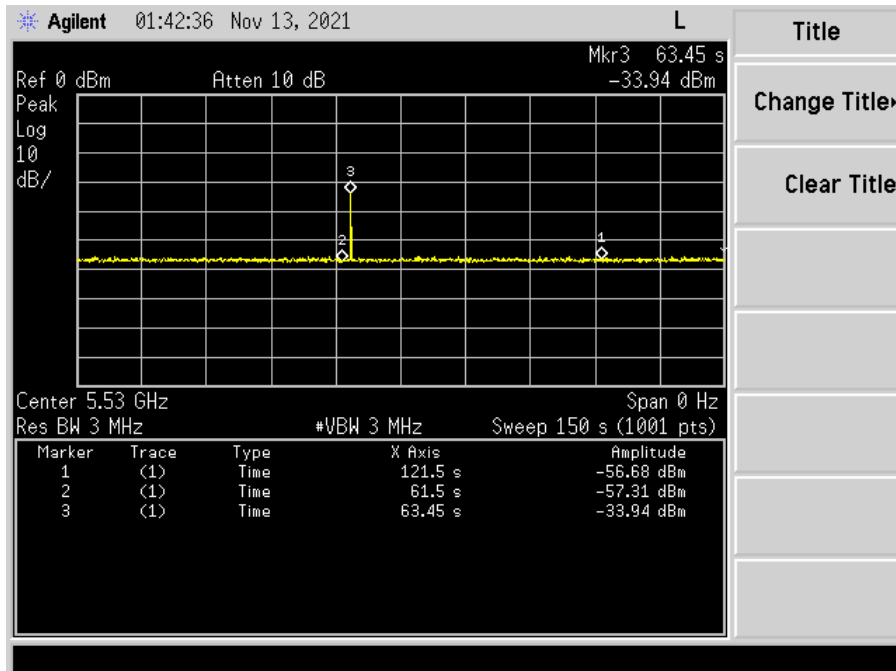
For radar burst at the beginning of the CAC. To verify successful radar detection on the selected channel during a period equal to the beginning of the CAC time, visual indication on the EUT of successful detection of the radar burst will be recorded and reported. Observation of the radar burst is show on the associated plot to be within the beginning of the CAC time. Emissions will continue to be monitored for the remaining 300 seconds.

For radar burst at the end of the CAC. To verify successful radar detection on the selected channel during a period equal to the end of the CAC time, visual indication on the EUT of successful detection of the radar burst will be recorded and reported. Observation of the radar burst is show on the associated plot to be within the end of the CAC time. Emissions will continue to be monitored for the remaining 300 seconds.

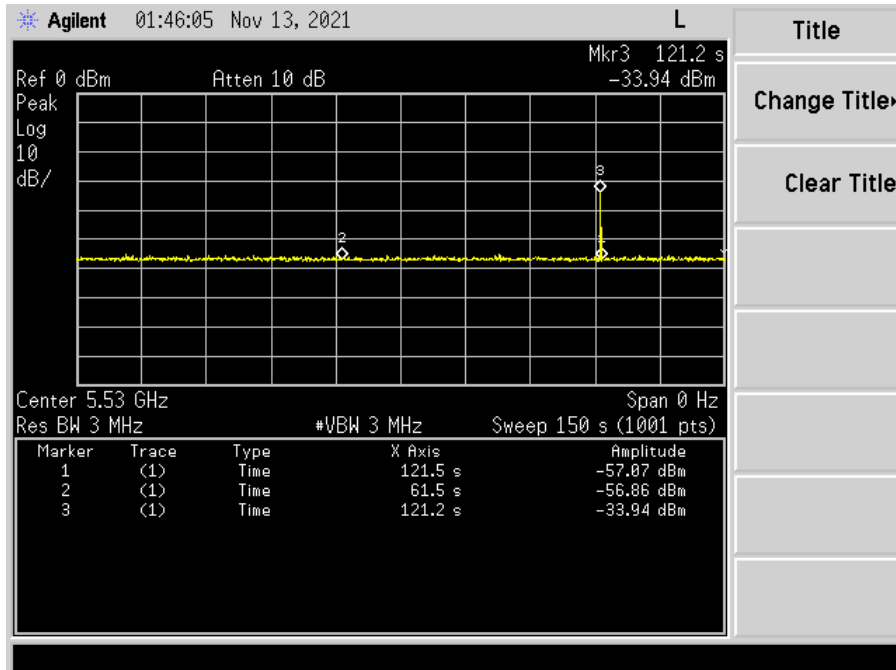
A spectrum analyzer is used as a monitor to verify that the EUT has vacated the channel within the channel closing transmission time and channel move time, and does not transmit on a channel during the non-occupancy period after the detection and channel move.



Plot 8: CACT



Plot 9: Beginning



Plot 10: End

5.7.3 In-service Monitoring

Channel Move Time	10 seconds
Channel Closing Transmission Time	200 ms + aggregate of 60 ms over remaining 10 second period
Non-occupancy period	Minimum 30 minutes

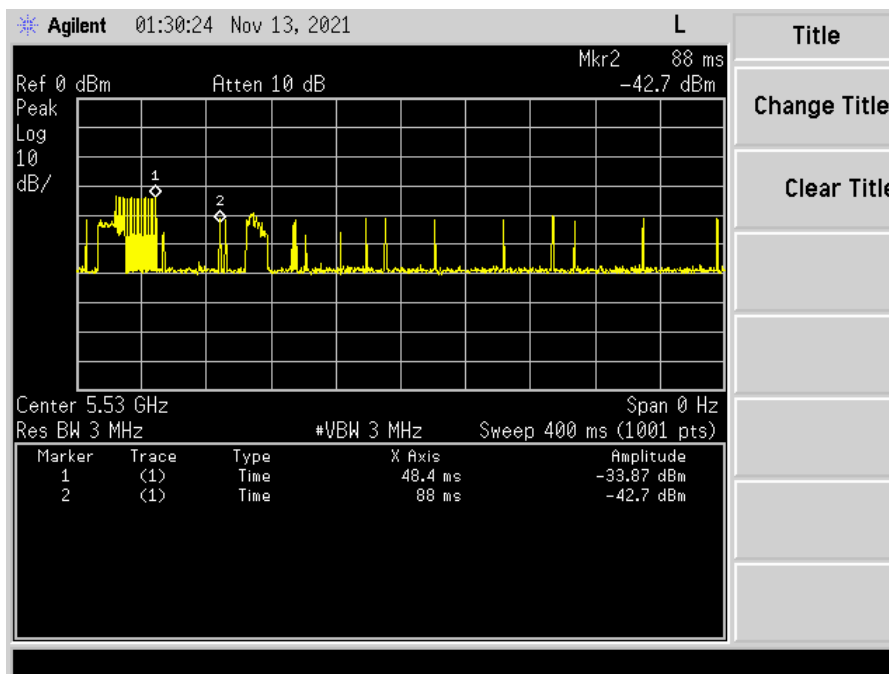
Verified during in-service monitoring: channel closing transmission time and channel move time. The transmissions were observed at the end of the radar burst on the operating channel for a duration of greater than 10 seconds. The transmissions were measured and recorded during the observation time. This was compared to the channel move time and channel closing time limits.

One 12 second plot is reported for the short pulse radar type 0. A 60 ms plot is also provided to verify closing time for the aggregate transmission time starting from 200 ms after the end of the radar signal to the completion of the channel move.

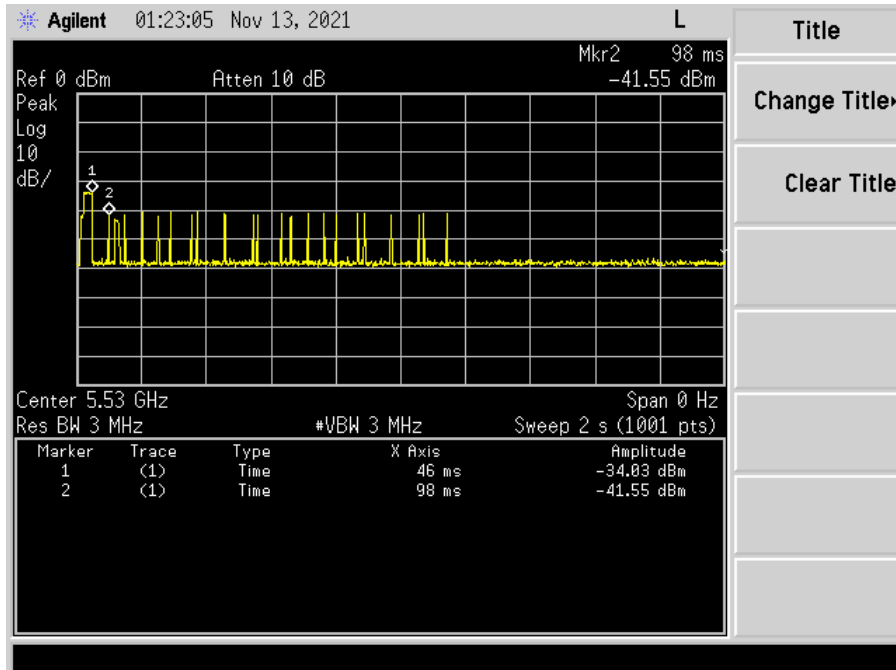
During the 30 minutes observation time, the EUT did not make any transmissions on a channel after a radar signal was detected.

Please see plots within the annex.

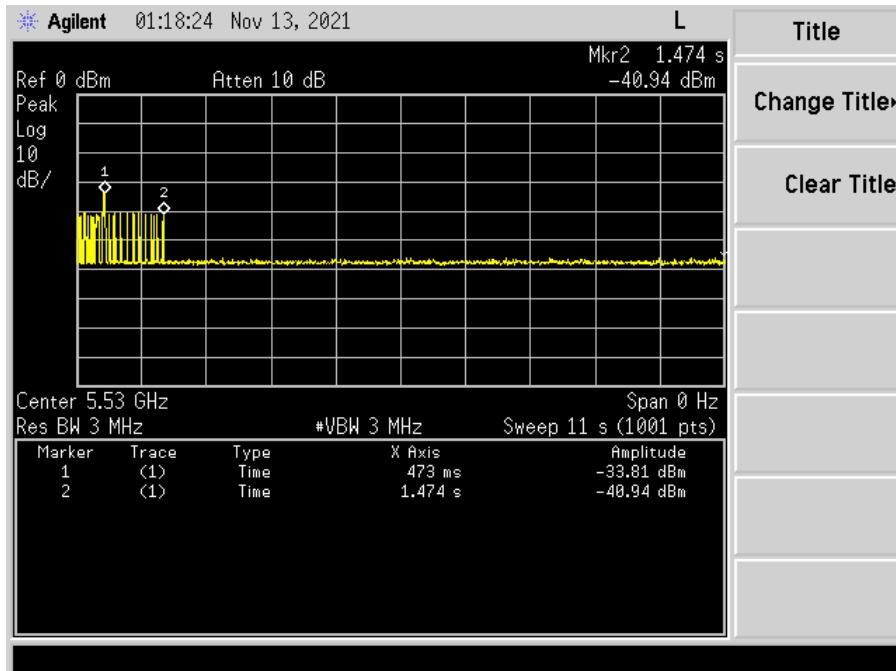
A spectrum analyzer is used as a monitor to verify that the EUT has vacated the channel within the channel closing transmission time and channel move time, and does not transmit on a channel during the non-occupancy period after the detection and channel move.



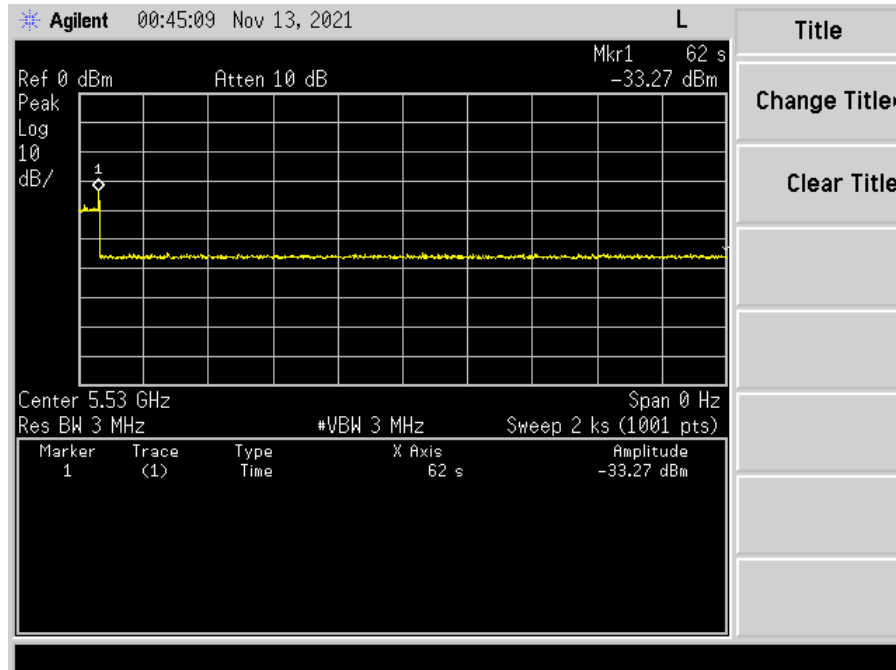
Plot 11: 400 ms



Plot 12: 2 seconds



Plot 13: Move



Plot 14: Non-Occupancy

5.7.4 DFS Detection Bandwidth
20 MHz

EUT Frequency = 5500 MHz ; Bandwidth = 20 MHz												
Radar Frequency MHz	DFS Detection Trials (1 = Detection, 0 = No Detection)										Detection Rate %	
	Trials											
	1	2	3	4	5	6	7	8	9	10		
F_Low 5490	1	1	1	1	1	1	1	1	1	1	1	100
5491												
5492												
5493												
5494												
5495	1	1	1	1	1	1	1	1	1	1	1	100
5496												
5497												
5498												
5499												
5500	1	1	1	0	1	1	1	1	1	1	1	90
5501												
5502												
5503												
5504												
5505	1	0	1	1	1	1	1	1	1	1	1	90
5506												
5507												
5508												
5509												
F_High 5510	1	0	1	1	1	1	1	1	1	1	1	90
Total Detection Percentage											94	
Detection Bandwidth = FH-FL = 5490 MHz - 5510 MHz = 20 MHz												
99% Bandwidth = 19.8 MHz												

40 MHz

EUT Frequency = 5510 MHz ; Bandwidth = 40 MHz												
Radar Frequency MHz	DFS Detection Trials (1 = Detection, 0 = No Detection)										Detection Rate %	
	Trials											
	1	2	3	4	5	6	7	8	9	10		
F_Low 5490	1	1	1	1	1	1	1	1	1	1	1	100
5491												
5492												
5493												
5494												
5495	1	1	0	1	1	1	1	1	1	1	1	90
5496												
5497												
5498												
5499												
5500	0	1	1	1	1	1	1	1	1	1	1	90
5501												
5502												
5503												
5504												
5505	1	1	1	1	1	1	0	1	1	1	1	90
5506												
5507												
5508												
5509												
5510	1	1	1	1	1	1	0	1	1	1	1	90
5511												
5512												
5513												
5514												
5515	1	1	1	1	1	1	1	1	1	1	1	100
5516												
5517												
5518												
5519												
5520	1	1	1	1	1	1	1	1	1	1	1	100
5521												
5522												
5523												
5524												

5525	1	1	1	1	1	1	1	1	1	1	100
5526											
5527											
5528											
5529											
F_High 5530	1	1	1	1	1	1	1	1	1	1	100
Total Detection Percentage											95.55555556
Detection Bandwidth = FH-FL = 5490 MHz - 5530 MHz = 40 MHz											
99% Bandwidth = 39.6 MHz											

80 MHz

EUT Frequency = 5530 MHz ; Bandwidth = 80 MHz											
Radar Frequency MHz	DFS Detection Trials (1 = Detection, 0 = No Detection)										Detection Rate %
	Trials										
	1	2	3	4	5	6	7	8	9	10	
F_Low 5490	1	1	1	1	1	1	1	1	1	1	100
5491											
5492											
5493											
5494											
5495	1	1	1	1	1	1	1	1	1	1	100
5496											
5497											
5498											
5499											
5500	1	1	1	1	1	1	1	1	1	1	100
5501											
5502											
5503											
5504											
5505	1	1	1	1	1	1	1	1	1	1	100
5506											
5507											
5508											
5509											
5510	1	1	1	1	1	1	1	1	1	1	100
5511											
5512											
5513											
5514											

5515	1	1	1	1	1	1	1	1	1	1	100
5516											
5517											
5518											
5519											
5520	1	1	1	1	1	1	1	1	1	1	100
5521											
5522											
5523											
5524											
5525	1	1	1	1	0	1	1	1	1	1	90
5526											
5527											
5528											
5529											
5530	1	1	1	1	1	1	1	1	1	1	100
5531											
5532											
5533											
5534											
5535	1	1	1	1	1	1	1	1	1	1	100
5536											
5537											
5538											
5539											
5540	1	1	1	1	1	1	1	1	1	1	100
5541											
5542											
5543											
5544											
5545	1	1	1	1	1	1	1	1	1	1	100
5546											
5547											
5548											
5549											
5550	1	1	1	1	1	1	1	1	1	1	100
5551											
5552											
5553											
5554											
5555	1	1	1	1	1	1	1	1	1	1	100
5556											
5557											

5558												
5559												
5560	1	1	1	1	1	1	1	1	1	1	1	100
5561												
5562												
5563												
5564												
5565	1	1	1	1	1	1	1	1	1	1	1	100
5566												
5567												
5568												
5569												
F_High 5570	1	1	1	1	1	1	1	1	1	1	1	100
Total Detection Percentage											99.41176471	
Detection Bandwidth = FH-FL = 5490 MHz - 5570 MHz = 80 MHz												
99% Bandwidth = 79.2 MHz												

5.7.5 Detection Probability

For statistical performance check. Demonstrating a minimum channel loading of approximately 17% or greater of the test. Observe the transmissions of the EUT at the end of the burst on the operating channel for duration greater than 10 seconds for short pulse radar type 1-4 and 6 to ensure detection occurs. Then observe the transmissions of the EUT at the end of the burst on the operating channel for duration greater than 22 seconds for long pulse radar type 5 to ensure detection occurs. The device can utilize a test mode to demonstrate when detection occurs to prevent the need to reset the device between trial runs.

Please see data within the annex.

Radar Type	Min successful detection (%)	Minimum Trials
1	60	30
2	60	30
3	60	30
4	60	30
Types 1 - 4	80	120
5	80	30
6	70	30

20 MHz

Summary			
Type	Detections	Trials	Detection Probability
Type 1	30	30	100%
Type 2	26	30	87%
Type 3	24	30	80%
Type 4	26	30	87%
Type 5	29	30	97%
Type 6	29	30	97%
Aggregate 1-4	106	120	88%

RADAR TYPE 1				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	89	1	598	y
2	61	1	878	y
3	86	1	618	y
4	81	1	658	y
5	59	1	898	y
6	59	1	898	y

7	78	1	678	y
8	83	1	638	y
9	78	1	678	y
10	74	1	718	y
11	95	1	558	y
12	89	1	598	y
13	74	1	718	y
14	76	1	698	y
15	70	1	758	y
16	68	1	778	y
17	89	1	598	y
18	70	1	758	y
19	74	1	718	y
20	59	1	898	y
21	61	1	878	y
22	70	1	758	y
23	92	1	578	y
24	92	1	578	y
25	63	1	838	y
26	81	1	658	y
27	78	1	678	y
28	61	1	878	y
29	76	1	698	y
30	95	1	558	y
Detection Probability 30/30				100 %

RADAR TYPE 2				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	24	4.6	225	y
2	26	1.4	174	y
3	28	1	185	y
4	29	1	230	y
5	26	5	168	y
6	27	4.1	211	y
7	26	4	169	n
8	25	1.8	208	y
9	28	2.7	198	n
10	23	1.4	199	y
11	28	3.9	184	y
12	27	2.1	173	y
13	25	3.6	154	y
14	24	4.7	186	y

15	26	3.6	218	y
16	25	2.2	209	y
17	24	3.2	207	y
18	28	3	162	y
19	28	3.6	218	y
20	25	2.9	190	y
21	27	4.9	200	n
22	29	4.4	223	y
23	23	2.4	153	y
24	24	2.1	213	y
25	27	1.6	181	y
26	29	4.4	175	n
27	26	2	191	y
28	26	4.9	197	y
29	26	2.7	215	y
30	26	2.4	215	y
Detection Probability 26/30				87 %

RADAR TYPE 3				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	17	9.6	321	y
2	16	8.1	284	y
3	17	7.1	372	y
4	18	8	256	y
5	17	6.4	352	y
6	18	8.3	208	n
7	17	7.2	480	y
8	17	9.4	499	y
9	17	6.1	486	y
10	16	6.6	242	n
11	17	9.7	336	y
12	18	8.4	355	n
13	17	10	310	y
14	16	9.2	291	y
15	18	6.1	348	y
16	17	9.9	357	y
17	18	6.4	475	y
18	17	6	275	y
19	17	7.9	316	y
20	16	7.3	255	y
21	18	9	309	n
22	17	6.3	234	y

23	17	7.6	380	y
24	18	6.5	476	n
25	17	7.6	430	y
26	17	9.1	475	y
27	16	6.5	431	y
28	17	7.2	302	y
29	17	6.7	236	y
30	17	7.8	261	n
Detection Probability 24/30				80 %

RADAR TYPE 4				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	13	12	355	y
2	13	12.5	422	y
3	15	13.4	345	y
4	14	17.9	307	y
5	16	19.5	428	y
6	13	11	396	y
7	12	16	312	y
8	13	18.6	408	y
9	14	17.3	465	y
10	12	15.4	370	n
11	16	18	457	y
12	13	18.4	233	y
13	15	12.5	211	y
14	13	11	474	y
15	13	16.7	457	y
16	14	14.7	496	y
17	14	15	414	n
18	14	19	382	y
19	14	19.8	341	y
20	13	12.6	424	y
21	12	17.6	234	y
22	15	18.3	399	y
23	13	11.9	397	y
24	15	15.3	450	y
25	15	19	259	n
26	15	19.2	488	y
27	16	12.7	236	y
28	13	17	328	y
29	13	11.8	408	y
30	16	12.4	231	n

Detection Probability 26/30	87 %
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TYPE 5		Rohde & Schwarz K350 Pulse Sequencer DFS		
Trial #	Detection (yes/no)	Chirp Width (MHz)	Subset	Fc
1	y	6	1	5500
2	y	14	1	5500
3	y	12	1	5500
4	y	12	1	5500
5	y	10	1	5500
6	n	8	1	5500
7	y	6	1	5500
8	y	9	1	5500
9	y	15	1	5500
10	y	5	1	5500
11	y	12	2	5495.8
12	y	19	2	5498.6
13	y	11	2	5495.4
14	y	8	2	5494.2
15	y	18	2	5498.2
16	y	6	2	5493.4
17	y	16	2	5497.4
18	y	9	2	5494.6
19	y	19	2	5498.6
20	y	9	2	5494.6
21	y	12	3	5504.2
22	y	17	3	5502.2
23	y	6	3	5506.6
24	y	15	3	5503
25	y	8	3	5505.8
26	y	8	3	5505.8
27	y	19	3	5501.4
28	y	5	3	5507
29	y	12	3	5504.2
30	y	20	3	5501
Detection Probability 29/30	97%			

Type 5 Trails

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 1							
Bursts in Trial: 11							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	3	96.9	6	1765	1145	82.225	
2	3	81.2	6	1307	1338	203.771	
3	1	52.7	6			861.062	
4	1	99.6	6			507.253	
5	2	82.6	6	1925		265.354	
6	2	88.8	6	1203		468.415	
7	3	95.1	6	1086	1201	284.065	
8	2	59.4	6	1073		616.046	
9	2	55.7	6	1956		392.777	
10	3	72.3	6	1560	1066	83.428	
11	3	91.3	6	1904	1308	761.209	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 2							
Bursts in Trial: 12							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	90.1	14	1598		152.433	
2	2	52.9	14	1992		450.14	
3	3	58.8	14	1674	1399	984.46	
4	1	100	14			274.67	
5	3	51	14	1165	1268	496.64	
6	2	96.3	14	1524		990.41	
7	3	55.2	14	1325	1847	902.95	
8	3	62.9	14	1346	1373	279.49	
9	2	83.5	14	1452		322.11	
10	2	99.2	14	1244		139.19	
11	2	52.1	14	1360		797.7	
12	1	51.8	14			266.5	

TYPE 5 PARAMETER SHEET						
						Rohde & Schwarz Pulse Sequencer
Trial Number : 3						
Bursts in Trial: 11						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	73.2	12	1489		942.775
2	2	84.7	12	1574		721.511
3	3	92.4	12	1674	1524	172.342
4	2	61.1	12	1213		785.533
5	2	93.1	12	1096		906.934
6	2	61.9	12	1708		552.265
7	2	80.1	12	1529		222.695
8	2	95.3	12	1925		942.526
9	3	54.9	12	1512	1309	751.507
10	2	59.2	12	1424		91.778
11	2	84.5	12	1675		61.909

TYPE 5 PARAMETER SHEET						
						Rohde & Schwarz Pulse Sequencer
Trial Number : 4						
Bursts in Trial: 11						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	65.4	12			1004.09
2	3	52.4	12	1965	1734	424.541
3	3	62.9	12	1272	1495	181.652
4	1	70.2	12			614.603
5	3	70.5	12	1532	1880	445.484
6	2	81.9	12	1815		1006.835
7	1	72	12			680.975
8	3	70.9	12	1503	1726	159.686
9	2	52.8	12	1491		580.717
10	1	75.1	12			120.778
11	2	58.6	12	1993		371.909

TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 5						
Bursts in Trial: 20						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	84.8	10	1756		500.544
2	2	53.9	10	1639		204.972
3	2	66.5	10	1630		505.54
4	1	53.2	10			394.47
5	3	66.7	10	1029	1172	187.03
6	1	81.2	10			342.34
7	3	76.3	10	1911	1833	482.61
8	3	78.5	10	1132	1641	297.27
9	2	82.3	10	1712		101.37
10	3	69	10	1297	1299	291.35
11	2	96.9	10	1894		456.87
12	2	68.1	10	1695		73.76
13	3	91.8	10	1667	1795	555.66
14	1	59.5	10			398.27
15	3	86.8	10	1120	1673	124.94
16	3	52.9	10	1127	1862	11.12
17	3	92.2	10	1074	1553	298.4
18	2	74.4	10	1414		572
19	2	95.5	10	1691		468.3
20	2	96.7	10	1323		268.1

TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 6						
Bursts in Trial: 12						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	60.8	8	1711		686.823
2	3	92.5	8	1387	1664	132.66
3	2	77.7	8	1985		188.15
4	2	59.4	8	1315		519.88
5	3	69.8	8	1131	1287	815.17
6	3	92.5	8	1092	1494	653.04
7	1	58.8	8			645.63
8	2	63.2	8	1385		853.36
9	2	74.3	8	1938		269.12
10	3	83.9	8	1956	1319	392.61
11	2	85.2	8	1566		652.3
12	1	95.5	8			396

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 7							
Bursts in Trial: 17							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	69.1	6	1290		8.872	
2	2	56.6	6	1232		489.168	
3	3	92.7	6	1229	1995	616.305	
4	2	97.8	6	1808		696.793	
5	3	52.6	6	1508	1657	63.821	
6	3	68.8	6	1299	1159	474.538	
7	3	100	6	1123	1954	586.316	
8	3	72.9	6	1199	1119	63.394	
9	3	69	6	1136	1434	97.661	
10	2	67	6	1359		42.559	
11	1	95.9	6			541.836	
12	3	87.6	6	1865	1625	417.274	
13	2	56.4	6	1531		621.212	
14	2	85.8	6	1018		683.909	
15	1	82.6	6			16.627	
16	1	95.2	6			601.765	
17	2	80.9	6	1389		493.282	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 8							
Bursts in Trial: 17							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	1	78.7	9			228.973	
2	2	64.5	9	1992		75.29	
3	2	99.1	9	1845		302.325	
4	2	77	9	1927		501.903	
5	2	66.1	9	1828		18.781	
6	3	55.5	9	1225	1561	501.688	
7	1	53.7	9			538.306	
8	2	56.4	9	1358		534.574	
9	2	58.9	9	1235		260.921	
10	1	94.7	9			605.999	
11	1	73.2	9			611.386	
12	2	62.7	9	1196		683.844	
13	2	64.2	9	1712		9.112	
14	3	83.1	9	1043	1390	73.969	
15	3	53.5	9	1131	1292	644.947	
16	3	67.1	9	1242	1903	248.265	
17	3	50.8	9	1650	1212	310.882	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 9							
Bursts in Trial: 10							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	87.8	15	1249		221.421	
2	3	71.6	15	1418	1583	1143.09	
3	1	94.3	15			755.56	
4	2	75.4	15	1291		373.17	
5	3	63.7	15	1328	1038	1190.76	
6	1	98.1	15			11.88	
7	2	50.1	15	1896		928	
8	1	84.2	15			723.26	
9	3	58.5	15	1428	1966	1030.3	
10	3	99.5	15	1664	1612	1085.6	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 10							
Bursts in Trial: 9							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	3	95	5	1125	1696	624.951	
2	2	90.6	5	1803		189.417	
3	2	88.5	5	1742		593.443	
4	3	58.4	5	1209	1577	725.3	
5	1	59.3	5			1197.787	
6	2	93.2	5	1805		340.203	
7	3	72	5	1527	1458	848.17	
8	3	94.1	5	1464	1063	86.777	
9	3	84.5	5	1326	1821	237.533	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 11							
Bursts in Trial: 12							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	73	12	1314		774.857	
2	3	59	12	1473	1870	134.37	
3	3	64.6	12	1592	1938	161.56	
4	2	98.7	12	1461		258.01	
5	2	87.2	12	1676		563.42	
6	3	91.5	12	1380	1920	52.87	
7	3	80.6	12	1881	1402	41.37	
8	1	77.2	12			204.26	
9	3	55.2	12	1313	1347	879.46	
10	2	78.4	12	1467		565.37	
11	2	63.8	12	1049		698.3	
12	3	65.1	12	1161	1202	629.7	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 12							
Bursts in Trial: 11							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	59.5	19	1843		101.38	
2	3	85.3	19	1379	1633	464.941	
3	2	74.8	19	1289		807.442	
4	1	52.9	19			403.573	
5	2	70.3	19	1367		591.424	
6	3	79.9	19	1814	1998	789.345	
7	3	97.4	19	1904	1009	517.455	
8	2	55.2	19	1504		817.116	
9	2	52.4	19	1992		801.487	
10	1	72.1	19			997.218	
11	2	79.1	19	1411		234.109	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 13							
Bursts in Trial: 16							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	86.7	11	1961		669.352	
2	3	93.4	11	1377	1944	97.196	
3	1	98.2	11			528.19	
4	2	86.1	11	1035		556.34	
5	3	70.6	11	1732	1421	106.66	
6	1	58.4	11			339.68	
7	3	84.9	11	1103	1598	438.27	
8	3	99	11	1130	1604	153.73	
9	2	76.2	11	1075		445.58	
10	2	59	11	1781		540.72	
11	2	87.8	11	1037		203.59	
12	2	87.3	11	1137		449.07	
13	2	74	11	1058		606.18	
14	3	77.9	11	1087	1543	279.7	
15	3	86.8	11	1722	1756	446.6	
16	1	86.8	11			328.6	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 14							
Bursts in Trial: 16							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	1	56.8	8			17.622	
2	1	52.8	8			198.865	
3	1	83.6	8			13.3	
4	3	84.2	8	1055	1806	383.25	
5	1	69	8			527.87	
6	2	86.5	8	1126		256.45	
7	2	98.2	8	1016		544.43	
8	2	55.2	8	1959		320.69	
9	2	65.4	8	1492		620.33	
10	2	84.8	8	1972		329	
11	2	97.7	8	1996		46.74	
12	2	81	8	1763		482.08	
13	2	91.1	8	1078		589.54	
14	1	53.3	8			720.3	
15	2	90.2	8	1822		652	
16	3	70.7	8	1615	1491	677.4	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 15							
Bursts in Trial: 10							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	57.8	18	1390		1034.17	
2	3	64.5	18	1756	1742	360.28	
3	1	96.3	18			104.1	
4	3	64.7	18	1429	1335	1051.87	
5	1	74.7	18			942.8	
6	3	65.5	18	1069	1666	170.54	
7	2	65.8	18	1255		719.34	
8	2	85.9	18	1358		470.48	
9	1	81.1	18			514.4	
10	3	55.1	18	1200	1373	829.6	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 16							
Bursts in Trial: 16							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	87.3	6	1404		614.572	
2	2	53.3	6	1728		310.77	
3	2	89.9	6	1126		704.28	
4	1	75.2	6			355.2	
5	2	90	6	1896		14.64	
6	2	80.5	6	1158		171.91	
7	2	75.4	6	1171		461.35	
8	2	94.4	6	1918		260.37	
9	2	50	6	1115		72.61	
10	2	90	6	1370		6.08	
11	2	50.2	6	1349		680.66	
12	3	85	6	1977	1000	196.51	
13	3	53.9	6	1837	1260	689.86	
14	3	95.1	6	1561	1287	344.1	
15	2	64.8	6	1295		303.6	
16	2	78.9	6	1209		596.7	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 17							
Bursts in Trial: 11							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	62.5	16	1948		109.028	
2	1	89	16			49.781	
3	2	93.4	16	1998		42.182	
4	2	67.8	16	1635		927.423	
5	1	52.9	16			499.374	
6	1	60.6	16			587.025	
7	1	82	16			649.605	
8	3	80.2	16	1760	1754	77.476	
9	1	82.6	16			401.277	
10	1	65.1	16			505.718	
11	2	70.6	16	1060		844.709	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 18							
Bursts in Trial: 17							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	1	59.4	9			206.968	
2	3	58.4	9	1022	1813	253.172	
3	3	65.8	9	1902	1097	647.545	
4	3	99.6	9	1307	1229	284.813	
5	2	62.1	9	1742		381.481	
6	1	54.5	9			431.868	
7	2	83.5	9	1852		264.896	
8	2	82.1	9	1999		397.374	
9	3	53.5	9	1606	1330	528.391	
10	2	82.6	9	1663		159.879	
11	2	55.5	9	1041		343.376	
12	3	95.1	9	1734	1194	467.794	
13	1	78.2	9			128.782	
14	3	69.7	9	1622	1797	454.419	
15	2	73.5	9	1886		261.947	
16	2	92.9	9	1869		517.865	
17	2	68.5	9	1164		405.082	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 19							
Bursts in Trial: 13							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	72	19	1795		672.081	
2	3	80.2	19	1345	1189	109.303	
3	2	82.9	19	1457		614.466	
4	1	71.4	19			143.669	
5	1	63.2	19			156.642	
6	3	84.4	19	1753	1106	134.705	
7	1	79.5	19			745.868	
8	3	61.3	19	1701	1560	898.032	
9	3	61.6	19	1550	1248	664.965	
10	2	97.1	19	1191		20.628	
11	2	97.2	19	1900		896.931	
12	3	73.6	19	1829	1297	286.254	
13	2	71.4	19	1416		401.177	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 20							
Bursts in Trial: 11							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	1	91.9	9			775.931	
2	2	73.1	9	1592		126.161	
3	3	57.2	9	1374	1091	240.862	
4	3	66.4	9	1725	1684	631.123	
5	2	89.2	9	1232		394.044	
6	2	55.6	9	1049		809.295	
7	2	66.1	9	1698		988.465	
8	2	76.2	9	1913		871.616	
9	3	53.3	9	1144	1382	515.867	
10	2	57.1	9	1400		245.218	
11	1	92.5	9			1054.709	

TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 21						
Bursts in Trial: 9						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	85.9	12			724.455
2	2	87.9	12	1505		461.437
3	2	93.5	12	1630		1016.303
4	3	97.6	12	1863	1673	1043.59
5	3	89.3	12	1039	1167	1299.297
6	2	98.9	12	1643		1172.973
7	3	62.7	12	1745	1015	1125.44
8	1	66	12			25.207
9	2	57.9	12	1217		275.033

TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 22						
Bursts in Trial: 20						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	77	17			178.6
2	2	55	17	1181		537.71
3	2	91.6	17	1019		392.24
4	2	55.7	17	1306		339.08
5	3	68.6	17	1116	1829	590.76
6	2	63.2	17	1219		213
7	2	76.4	17	1755		368.86
8	2	99.6	17	1609		34.47
9	1	54.5	17			367.96
10	2	66.9	17	1769		3.79
11	3	53.8	17	1207	1169	325.11
12	2	71.5	17	1965		214.92
13	1	54.5	17			294.53
14	2	70.9	17	1975		445.62
15	2	86.3	17	1985		533.3
16	1	85.4	17			144.76
17	2	78.2	17	1436		22.95
18	2	64.8	17	1883		578.5
19	2	88.4	17	1122		210.5
20	2	56.2	17	1574		537.7

TYPE 5 PARAMETER SHEET						
Rohde & Schwarz Pulse Sequencer						
Trial Number : 23						
Bursts in Trial: 14						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	2	51.4	6	1986		413.396
2	2	92	6	1995		345.317
3	2	89.3	6	1790		413.274
4	2	65.2	6	1076		104.861
5	2	96.2	6	1172		151.869
6	1	88	6			313.246
7	3	60.8	6	1458	1009	79.073
8	3	88.8	6	1919	1944	172.09
9	1	57	6			76.397
10	2	96.4	6	1454		172.744
11	3	57.1	6	1988	1553	170.001
12	1	71.2	6			148.229
13	1	99.3	6			124.486
14	2	78	6	1368		418.643

TYPE 5 PARAMETER SHEET						
Rohde & Schwarz Pulse Sequencer						
Trial Number : 24						
Bursts in Trial: 20						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	57.5	15			461.342
2	1	90	15			527.46
3	3	55	15	1375	1448	160
4	1	98.4	15			552.21
5	2	68.1	15	1434		397.47
6	2	55.2	15	1312		479.78
7	1	69	15			85.56
8	3	91.8	15	1297	1197	113.77
9	1	78.2	15			515.06
10	2	57.3	15	1133		489.56
11	3	51.9	15	1697	1629	37.14
12	2	69	15	1537		585.41
13	1	90.5	15			0.1
14	2	74.7	15	1347		389.56
15	2	98.7	15	1943		592.43
16	2	57.5	15	1146		20.27
17	1	91	15			159.16
18	2	62.6	15	1517		400.5
19	2	85.2	15	1533		162.8
20	2	63.8	15	1897		472.5

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 25							
Bursts in Trial: 8							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	99.7	8	1674		1398.11	
2	2	58.8	8	1924		361.93	
3	2	57.5	8	1750		300.91	
4	2	73.4	8	1512		508.4	
5	2	98.2	8	1496		1379.54	
6	2	78.3	8	1561		1387.72	
7	1	53.9	8			297.22	
8	3	89.1	8	1218	1978	251.3	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 26							
Bursts in Trial: 11							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	3	62.2	8	1455	1820	1015.65	
2	3	84.3	8	1759	1621	1064.411	
3	1	52.4	8			809.022	
4	1	78.9	8			243.973	
5	2	51.8	8	1347		80.364	
6	2	88.5	8	1984		245.665	
7	1	71.7	8			696.795	
8	2	68.7	8	1108		785.566	
9	3	99.1	8	1927	1037	873.477	
10	1	68.8	8			729.518	
11	1	93.5	8			960.409	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 27							
Bursts in Trial: 11							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	3	54.5	19	1161	1790	929.821	
2	2	93.5	19	1999		258.541	
3	3	51.5	19	1004	1082	592.242	
4	2	80.2	19	1277		960.993	
5	2	52.9	19	1147		638.564	
6	2	91.7	19	1103		503.955	
7	2	89.8	19	1677		108.405	
8	3	61.8	19	1300	1580	973.456	
9	2	96.2	19	1535		423.247	
10	2	90.5	19	1133		3.498	
11	2	65.7	19	1647		1063.209	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 28							
Bursts in Trial: 11							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	94.4	5	1647		680.391	
2	1	75.1	5			799.991	
3	1	85.1	5			199.042	
4	1	56.1	5			199.723	
5	2	57.9	5	1250		538.474	
6	3	99	5	1587	1133	425.895	
7	2	99.8	5	1823		25.645	
8	3	78.9	5	1264	1519	537.386	
9	2	76.5	5	1427		286.727	
10	2	90.6	5	1851		949.318	
11	1	76.2	5			1012.809	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 29							
Bursts in Trial: 9							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	88.4	12	1514		1255.94	
2	1	98.8	12			1225.887	
3	3	79.5	12	1265	1125	1181.953	
4	2	64.7	12	1956		392.49	
5	2	96.1	12	1391		355.537	
6	1	69.2	12			163.883	
7	3	62	12	1752	1550	1156.19	
8	1	87.4	12			1107.267	
9	3	51.6	12	1742	1130	333.433	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 30							
Bursts in Trial: 16							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	3	95.3	20	1928	1282	180.208	
2	1	92.1	20			23.278	
3	3	59	20	1876	1972	95.5	
4	2	80.5	20	1796		355.82	
5	2	93.7	20	1336		297.19	
6	3	79.9	20	1993	1681	35.43	
7	3	85.6	20	1174	1765	299.28	
8	2	71.5	20	1836		481.71	
9	1	95	20			132.19	
10	3	50.7	20	1971	1884	203.31	
11	1	94.5	20			504.17	
12	3	95.4	20	1471	1661	278.45	
13	1	55.5	20			528.87	
14	2	91.3	20	1031		479.7	
15	3	65.3	20	1614	1623	168.7	
16	2	81.4	20	1824		392.5	

TYPE 6 S		Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Detection (yes/no)	
1	y	

2	y
3	n
4	y
5	y
6	y
7	y
8	y
9	y
10	y
11	y
12	y
13	y
14	y
15	y
16	y
17	y
18	y
19	y
20	y
21	y
22	y
23	y
24	y
25	y
26	y
27	y
28	y
29	y
30	y
Detection Probability 29/30	97 %

40 MHz

Summary			
Type	Detections	Trials	Detection Probability
Type 1	30	30	100%
Type 2	25	30	83%
Type 3	24	30	80%
Type 4	24	30	80%
Type 5	27	30	90%
Type 6	30	30	100%
Aggregate 1-4	103	120	86%

RADAR TYPE 1				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	67	1	798	y
2	58	1	918	y
3	70	1	758	y
4	57	1	938	y
5	65	1	818	y
6	92	1	578	y
7	57	1	938	y
8	98	1	538	y
9	68	1	778	y
10	58	1	918	y
11	72	1	738	y
12	102	1	518	y
13	98	1	538	y
14	78	1	678	y
15	83	1	638	y
16	70	1	758	y
17	57	1	938	y
18	76	1	698	y
19	62	1	858	y
20	98	1	538	y
21	74	1	718	y
22	95	1	558	y
23	18	1	3066	y
24	65	1	818	y
25	68	1	778	y

26	62	1	858	y
27	57	1	938	y
28	63	1	838	y
29	62	1	858	y
30	61	1	878	y
Detection Probability 30/30				100 %

RADAR TYPE 2				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	24	2.5	156	y
2	27	5	196	y
3	24	4	174	y
4	29	3.3	195	y
5	27	1.9	186	y
6	25	3.8	151	y
7	24	2.1	165	n
8	24	2.7	168	y
9	28	2.5	159	y
10	24	2	210	y
11	24	2	219	n
12	25	3.4	185	n
13	29	3.7	177	y
14	25	3.3	184	y
15	27	2.9	225	y
16	28	2.9	156	y
17	27	3.4	213	y
18	28	1.5	192	n
19	24	2.9	157	y
20	25	1.1	178	y
21	26	3.8	222	y
22	24	1.9	153	y
23	27	3.9	227	y
24	24	4	151	y
25	23	4.6	157	y
26	28	4.1	150	y
27	25	3.8	202	y
28	25	2.1	190	y
29	24	4.2	188	n
30	23	4.6	150	y
Detection Probability 25/30				83 %

RADAR TYPE 3				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	17	7.5	398	y
2	17	8.8	256	y
3	18	8.8	386	y
4	17	8.8	472	y
5	18	6.1	367	n
6	17	7.2	271	y
7	17	7.9	222	y
8	17	9.1	396	n
9	16	8.9	352	y
10	17	9.8	356	y
11	17	9.3	422	y
12	18	9.8	460	y
13	17	9.2	304	y
14	18	9.3	357	y
15	17	7.5	273	y
16	16	8.4	410	y
17	18	6.6	494	y
18	17	9.7	306	y
19	16	7.7	332	y
20	17	7.1	446	y
21	18	8.3	278	n
22	17	9.6	340	y
23	17	6.4	346	n
24	18	7.3	409	y
25	17	7.5	206	y
26	18	7.9	383	n
27	16	6	284	y
28	18	9.6	223	y
29	17	9.8	476	y
30	17	9.8	406	n
Detection Probability 24/30				80 %

RADAR TYPE 4				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	12	15.1	490	y
2	13	15.1	213	y
3	15	11.9	473	y

4	15	19.8	224	y
5	14	12.5	273	n
6	12	13.5	428	n
7	13	18.5	477	y
8	12	15	491	n
9	13	16.5	380	n
10	16	14.1	358	y
11	14	17.7	300	y
12	12	15.1	424	y
13	15	12.5	226	y
14	13	15	249	y
15	12	13.8	244	y
16	13	11.7	268	y
17	15	18.9	211	y
18	15	12.1	428	n
19	14	15.7	465	y
20	15	14.6	227	y
21	15	17.3	466	y
22	14	16.1	300	y
23	15	12.9	472	y
24	12	12.9	272	y
25	12	14.2	239	y
26	13	19.2	462	y
27	13	11.1	287	y
28	13	11.9	376	y
29	15	15.5	237	y
30	13	18.5	494	n
Detection Probability 24/30				80 %

TYPE 5		Rohde & Schwarz K350 Pulse Sequencer DFS			
Trial #	Detection (yes/no)	Chirp Width (MHz)	Subset	Fc	
1	y	16	1	5500	
2	y	17	1	5500	
3	y	17	1	5500	
4	y	19	1	5500	
5	y	12	1	5500	
6	y	6	1	5500	
7	y	9	1	5500	
8	y	9	1	5500	
9	y	11	1	5500	
10	y	7	1	5500	
11	y	9	2	5494.6	
12	y	14	2	5496.6	

13	y	14	2	5496.6
14	y	11	2	5495.4
15	y	6	2	5493.4
16	y	5	2	5493
17	y	14	2	5496.6
18	n	11	2	5495.4
19	y	14	2	5496.6
20	y	18	2	5498.2
21	y	19	3	5501.4
22	y	18	3	5501.8
23	y	10	3	5505
24	n	10	3	5505
25	y	18	3	5501.8
26	n	10	3	5505
27	y	15	3	5503
28	y	17	3	5502.2
29	y	10	3	5505
30	y	20	3	5501
Detection Probability 27/30	90 %			

Type 5 Trails

TYPE 5 PARAMETER SHEET						Rohde & Schwarz Pulse Sequencer
Trial Number : 1						
Bursts in Trial: 15						
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)
1	1	98.4	16			26.135
2	2	61.5	16	1080		572.77
3	2	75.4	16	1731		448.14
4	3	83.2	16	1661	1544	344.69
5	1	93.7	16			19.33
6	1	75.6	16			587.86
7	1	63.2	16			436.01
8	3	78.6	16	1162	1587	331.16
9	3	76.2	16	1654	1886	331.89
10	3	92.8	16	1184	1498	582.86
11	2	87.9	16	1390		113.1
12	2	74.7	16	1662		379.42
13	1	74.6	16			655.5
14	2	74.8	16	1798		314.4
15	3	81.6	16	1836	1950	683

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 2							
Bursts in Trial: 15							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	1	73.3	17			198.059	
2	1	69.3	17			73.783	
3	2	75	17	1634		721.6	
4	2	60.3	17	1789		245.01	
5	2	95.2	17	1841		686.79	
6	3	53.7	17	1660	1945	488.01	
7	1	72.7	17			157.86	
8	2	94.2	17	1916		225.78	
9	2	63.8	17	1815		530.36	
10	2	78	17	1003		756.43	
11	1	95	17			38.3	
12	2	55.4	17	1278		160.54	
13	1	58.6	17			293.38	
14	3	86.2	17	1391	1607	312.5	
15	1	97.4	17			346.7	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 3							
Bursts in Trial: 16							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	3	62.7	17	1233	1593	711.038	
2	1	62.4	17			249.73	
3	3	59.9	17	1709	1247	142.68	
4	3	65.3	17	1273	1109	554.05	
5	1	52.8	17			36.56	
6	3	83	17	1078	1399	587.64	
7	3	99.3	17	1160	1276	18.27	
8	1	87.5	17			449.36	
9	3	50.2	17	1886	1538	325.8	
10	2	78	17	1676		412.76	
11	2	56.7	17	1841		686.85	
12	1	77.6	17			183.46	
13	2	55	17	1025		341.85	
14	2	51.4	17	1360		667.4	
15	3	80.4	17	1194	1149	585	
16	2	85.3	17	1529		454.3	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 4							
Bursts in Trial: 13							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	53.6	19	1079		571.199	
2	1	82.5	19			668.473	
3	1	77.6	19			330.456	
4	2	71	19	1090		821.149	
5	3	65.2	19	1114	1149	811.042	
6	2	63.1	19	1608		108.985	
7	1	85.4	19			908.168	
8	2	80	19	1212		655.492	
9	2	57	19	1799		194.295	
10	2	52.4	19	1683		684.138	
11	3	62.7	19	1288	1722	181.521	
12	2	70.4	19	1343		320.054	
13	3	71.3	19	1745	1333	703.277	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 5							
Bursts in Trial: 17							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	3	74	12	1667	1340	399.305	
2	3	69.5	12	1263	1248	184.875	
3	2	84.8	12	1544		271.505	
4	2	57.9	12	1068		406.903	
5	2	77.1	12	1881		354.141	
6	2	87.8	12	1509		179.618	
7	3	70.1	12	1937	1410	629.946	
8	3	94.8	12	1550	1200	644.644	
9	2	61.1	12	1953		114.471	
10	3	89.1	12	1688	1554	533.789	
11	2	91.9	12	1806		401.056	
12	2	79.8	12	1824		494.894	
13	3	70	12	1556	1448	631.042	
14	3	91	12	1109	1200	695.919	
15	1	88.4	12			667.647	
16	1	77.9	12			166.565	
17	3	50.7	12	1758	1581	434.682	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 6							
Bursts in Trial: 18							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	77.8	6	1826		555.991	
2	2	82.9	6	1243		449.933	
3	2	67	6	1155		119.847	
4	1	86.2	6			174.95	
5	3	53.6	6	1567	1423	375.393	
6	3	98.3	6	1785	1319	30.557	
7	2	71.1	6	1825		483.27	
8	2	50.5	6	1397		361.853	
9	3	58.5	6	1052	1171	201.627	
10	2	57.1	6	1243		429.01	
11	3	57.2	6	1403	1494	330.903	
12	1	52.3	6			132.377	
13	2	62	6	1054		485.86	
14	2	81	6	1641		161.523	
15	2	88.7	6	1997		36.077	
16	1	77.8	6			480.4	
17	1	59.6	6			630.533	
18	2	89.4	6	1581		526.667	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 7							
Bursts in Trial: 12							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	55.4	9	1429		314.276	
2	2	92.4	9	1836		641.79	
3	2	83.7	9	1723		199.59	
4	3	99.7	9	1589	1869	850.42	
5	2	93.7	9	1488		898.59	
6	2	77.4	9	1026		829.44	
7	3	58.9	9	1223	1483	655.85	
8	1	73.3	9			826.79	
9	3	67.6	9	1479	1053	411.26	
10	2	80.1	9	1352		707.9	
11	1	57.5	9			431.9	
12	2	98.3	9	1891		442.9	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 8							
Bursts in Trial: 10							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	84.5	9	1266		1019.67	
2	3	99.3	9	1599	1725	592.44	
3	3	71.3	9	1628	1444	38.14	
4	2	96.2	9	1709		1148.37	
5	2	94.6	9	1090		187.91	
6	3	55.9	9	1287	1866	1139.45	
7	2	78.8	9	1903		897.39	
8	1	59.3	9			532.11	
9	3	96.9	9	1344	1772	803.1	
10	2	69.8	9	1067		1153.1	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 9							
Bursts in Trial: 9							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	3	84.1	11	1238	1745	242.673	
2	2	85.7	11	1099		587.397	
3	3	76.2	11	1004	1751	1260.803	
4	2	54.6	11	1847		1279.45	
5	1	50.1	11			295.167	
6	1	87.2	11			490.573	
7	2	84.4	11	1114		110.53	
8	3	70	11	1706	1800	420.077	
9	3	86.1	11	1379	1331	1275.733	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 10							
Bursts in Trial: 18							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	3	71.7	7	1769	1207	305.207	
2	2	52.5	7	1915		201.402	
3	2	85.2	7	1926		187.247	
4	2	61.7	7	1462		307.34	
5	2	92.4	7	1877		492.963	
6	3	61	7	1534	1549	459.437	
7	1	78.4	7			273.01	
8	1	85.9	7			183.403	
9	1	71.9	7			491.197	
10	1	84.9	7			384.38	
11	2	57.8	7	1341		76.783	
12	1	71.1	7			236.057	
13	2	96.5	7	1016		368.12	
14	1	51.5	7			655.103	
15	1	64.7	7			21.747	
16	2	78.9	7	1642		166.5	
17	2	68.9	7	1642		521.033	
18	2	65.1	7	1355		552.567	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 11							
Bursts in Trial: 20							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	89.2	9	1317		83.439	
2	3	56.4	9	1928	1562	387.092	
3	1	82.6	9			251.85	
4	2	90.7	9	1823		5.22	
5	3	85.3	9	1352	1816	584.23	
6	2	66.7	9	1739		248.51	
7	3	92.3	9	1988	1345	158.97	
8	3	75.2	9	1448	1240	149.62	
9	1	96.5	9			307.35	
10	2	56.4	9	1076		202.38	
11	2	53.4	9	1793		39.11	
12	2	89.8	9	1935		362.16	
13	1	69.5	9			192.44	
14	2	55	9	1853		396.58	
15	2	67.5	9	1344		580.78	
16	3	80.3	9	1811	1005	8.06	
17	2	91.6	9	1732		394.44	
18	1	78.4	9			448.5	
19	2	86.8	9	1381		123.2	
20	2	94.7	9	1619		198.7	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 12							
Bursts in Trial: 14							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	3	62.3	14	1398	1968	88.112	
2	1	88.9	14			792.957	
3	2	96.7	14	1606		729.514	
4	1	77.2	14			469.841	
5	3	90.8	14	1164	1237	284.459	
6	2	82.8	14	1751		708.706	
7	3	58.4	14	1505	1556	264.473	
8	3	98.7	14	1288	1540	37.93	
9	3	85.7	14	1561	1247	765.067	
10	2	89	14	1161		553.264	
11	2	73.2	14	1340		470.531	
12	2	54.4	14	1748		225.289	
13	3	91.3	14	1021	1301	129.786	
14	2	68.3	14	1813		502.243	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 13							
Bursts in Trial: 11							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	91.9	14	1312		134.943	
2	3	65.1	14	1195	1821	648.341	
3	3	83.8	14	1393	1178	622.682	
4	1	97.3	14			346.803	
5	1	79.1	14			701.854	
6	1	91	14			179.385	
7	2	78.3	14	1422		402.925	
8	2	56.7	14	1524		987.166	
9	3	54	14	1342	1813	257.687	
10	2	90.5	14	1734		625.518	
11	2	59.3	14	1810		325.209	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 14							
Bursts in Trial: 18							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	88.9	11	1970		607.151	
2	2	74.8	11	1869		190.792	
3	1	55.8	11			130.607	
4	1	88.3	11			596.05	
5	1	55.5	11			310.243	
6	2	77.2	11	1356		127.387	
7	2	72.9	11	1307		335.29	
8	1	51.9	11			541.093	
9	2	58.7	11	1622		487.397	
10	3	61	11	1450	1322	614.16	
11	3	81.7	11	1796	1025	453.313	
12	1	52.9	11			524.727	
13	3	81.6	11	1343	1372	183.72	
14	3	97.4	11	1126	1988	260.323	
15	3	67.5	11	1466	1104	278.197	
16	2	86.4	11	1609		630.4	
17	3	66.4	11	1245	1541	119.633	
18	2	69	11	1880		13.867	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 15							
Bursts in Trial: 12							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	74	6	1536		213.346	
2	1	52.6	6			276.48	
3	2	85.6	6	1403		240.57	
4	3	69.7	6	1026	1371	578.08	
5	1	75.7	6			988.59	
6	2	63.4	6	1966		278.09	
7	2	75.6	6	1666		698.73	
8	3	86.3	6	1771	1494	992.42	
9	1	81.8	6			562.08	
10	1	76.9	6			210.65	
11	1	79.8	6			757.1	
12	2	98.1	6	1685		345.2	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 16							
Bursts in Trial: 14							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	3	71.2	5	1181	1913	101.101	
2	3	78.1	5	1202	1091	455.947	
3	2	52.3	5	1738		414.564	
4	2	67.3	5	1530		608.011	
5	2	62	5	1027		797.219	
6	2	88.5	5	1521		357.956	
7	1	83.4	5			121.193	
8	2	93.2	5	1211		527.08	
9	2	54.4	5	1359		223.907	
10	3	50	5	1704	1816	406.694	
11	1	52.9	5			810.821	
12	1	57.9	5			160.979	
13	2	80.2	5	1753		495.286	
14	2	83.8	5	1614		765.843	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 17							
Bursts in Trial: 15							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	1	86.4	14			238.497	
2	2	79	14	1099		135.969	
3	3	66.9	14	1135	1875	388.58	
4	1	92.2	14			23.87	
5	1	50.4	14			63.55	
6	2	55.7	14	1347		656.43	
7	2	76.9	14	1613		319.65	
8	1	58.1	14			20.65	
9	2	87.6	14	1070		639.53	
10	3	54.4	14	1453	1667	731.78	
11	1	74	14			251.58	
12	3	90.6	14	1430	1891	751.24	
13	3	98.8	14	1964	1172	527	
14	2	56.8	14	1925		371.5	
15	3	99.2	14	1284	1621	53.4	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 18							
Bursts in Trial: 18							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	3	62	11	1174	1587	189.08	
2	1	74	11			100.603	
3	2	96.6	11	1281		482.887	
4	3	98.4	11	1713	1601	460.97	
5	2	86.4	11	1377		104.553	
6	2	69.3	11	1791		296.097	
7	2	56.4	11	1831		225.59	
8	1	81.4	11			406.043	
9	2	67	11	1389		658.917	
10	1	64.1	11			640.48	
11	2	58.4	11	1574		276.653	
12	3	97.5	11	1095	1060	243.257	
13	3	93.1	11	1791	1194	218.27	
14	1	99.9	11			109.943	
15	1	81.1	11			641.897	
16	2	60.1	11	1182		321.4	
17	2	51.1	11	1468		551.533	
18	1	86.3	11			13.267	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 19							
Bursts in Trial: 12							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	1	50.2	14			106.501	
2	2	81.5	14	1631		287.87	
3	1	67.3	14			200.43	
4	1	90.5	14			670.48	
5	2	67	14	1545		483.49	
6	3	68.9	14	1075	1961	84.11	
7	3	96.1	14	1708	1795	160.36	
8	1	54.4	14			740.81	
9	2	77.8	14	1352		399.85	
10	1	80	14			887.44	
11	3	74.7	14	1072	1966	600.6	
12	2	89	14	1477		805.5	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 20							
Bursts in Trial: 9							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	1	93.7	18			699.587	
2	2	51.7	18	1540		1303.437	
3	2	88.9	18	1180		666.563	
4	3	52.5	18	1107	1178	945.03	
5	3	93.4	18	1234	1119	579.107	
6	1	86	18			1324.633	
7	2	79.8	18	1897		9.37	
8	2	99.1	18	1754		903.967	
9	1	92.1	18			1111.633	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 21							
Bursts in Trial: 16							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	75.6	19	1928		433.365	
2	2	88	19	1198		267.94	
3	3	70.8	19	1349	1858	618.23	
4	2	78.3	19	1271		449.79	
5	3	81.7	19	1093	1402	150.58	
6	1	87.3	19			650.72	
7	2	57.1	19	1301		216.96	
8	3	87.4	19	1972	1481	733.6	
9	3	54.3	19	1812	1184	72.16	
10	2	86	19	1174		566.04	
11	3	65.1	19	1351	1794	574.35	
12	3	74.1	19	1017	1921	92.69	
13	2	59.7	19	1320		378.28	
14	3	92.3	19	1295	1163	190.76	
15	2	63	19	1545		532.4	
16	1	77.6	19			546.7	

22	y
23	y
24	y
25	y
26	y
27	y
28	y
29	y
30	y
Detection Probability 30/30	100 %

80 MHz

Summary			
Type	Detections	Trials	Detection Probability
Type 1	25	30	83%
Type 2	23	30	77%
Type 3	25	30	83%
Type 4	25	30	83%
Type 5	30	30	100%
Type 6	29	30	97%
Aggregate 1-4	98	120	82%

RADAR TYPE 1				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	67	1	798	y
2	74	1	718	y
3	57	1	938	n
4	68	1	778	n
5	72	1	738	y
6	57	1	938	y
7	57	1	938	n
8	63	1	838	n
9	78	1	678	y
10	95	1	558	y
11	98	1	538	y
12	59	1	898	y
13	72	1	738	y
14	65	1	818	y

15	83	1	638	y
16	57	1	938	y
17	95	1	558	y
18	89	1	598	y
19	58	1	918	n
20	65	1	818	y
21	86	1	618	y
22	57	1	938	y
23	86	1	618	y
24	95	1	558	y
25	70	1	758	y
26	89	1	598	y
27	57	1	938	y
28	59	1	898	y
29	70	1	758	y
30	61	1	878	y
Detection Probability 25/30				83 5

RADAR TYPE 2				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	26	4.1	179	y
2	25	2.1	180	y
3	24	2	208	n
4	28	1	177	n
5	23	3.2	225	n
6	29	1.6	176	n
7	26	1.9	202	y
8	26	2.6	184	y
9	26	2.2	228	y
10	28	3.5	166	y
11	24	4.1	210	y
12	23	2.8	225	y
13	24	4	187	y
14	26	3.5	187	n
15	27	4.2	216	n
16	26	1.9	220	n
17	26	1.8	219	y
18	27	4.3	176	y
19	25	3.2	160	y
20	25	3.6	157	y
21	27	1	193	y
22	24	4.9	223	y

23	25	4.8	201	y
24	24	1.3	222	y
25	23	1.4	163	y
26	29	1.4	210	y
27	24	4.2	221	y
28	27	5	194	y
29	27	5	200	y
30	26	1.3	160	y
Detection Probability 23/30				77 %

RADAR TYPE 3				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	16	9.1	477	y
2	16	6	252	y
3	18	7	364	y
4	16	8.4	415	y
5	17	6.6	411	y
6	17	9.6	490	y
7	17	8.2	213	n
8	17	6.5	499	y
9	17	9.2	356	y
10	17	9.3	439	y
11	18	8.1	463	y
12	17	7.8	470	y
13	17	9.5	458	y
14	18	6.5	280	y
15	18	8	338	y
16	18	7.1	435	y
17	16	8.3	211	n
18	18	9.6	467	y
19	18	6.6	455	y
20	18	8.1	409	y
21	18	7.8	411	y
22	17	8	403	y
23	16	7.9	315	y
24	17	7.3	496	y
25	18	8.9	411	n
26	17	8.7	339	y
27	17	8.6	413	n
28	18	6.5	424	y
29	17	7.5	487	n
30	17	7.5	465	y

Detection Probability 25/30	83 %
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RADAR TYPE 4				Rohde & Schwarz K350 Pulse Sequencer DFS
Trial #	Number of Pulses per Burst	Pulse Width (µsec)	PRI (µs)	Detection (yes/no)
1	15	15.8	493	y
2	13	16.9	370	y
3	12	16.6	243	y
4	15	11	454	y
5	14	15	309	y
6	14	18.9	437	y
7	15	19.4	252	y
8	13	17.3	368	y
9	14	11.2	400	y
10	14	17.5	456	y
11	13	14.9	488	y
12	13	13.2	265	y
13	13	17.1	340	y
14	14	12.5	336	y
15	12	11.7	332	y
16	16	18.8	210	n
17	14	16.1	219	n
18	13	17	245	y
19	15	11.9	475	y
20	16	17.6	283	y
21	13	19.7	418	y
22	14	14.6	248	y
23	13	17.8	311	n
24	13	15.1	477	y
25	16	12.6	369	n
26	13	18.3	449	n
27	15	16.6	482	y
28	16	11.6	423	y
29	13	13.6	259	y
30	14	11.7	495	y
Detection Probability 25/30				83 %

TYPE 5		Rohde & Schwarz K350 Pulse Sequencer DFS		
Trial #	Detection (yes/no)	Chirp Width (MHz)	Subset	Fc
1	y	7	1	5500

2	y	6	1	5500
3	y	19	1	5500
4	y	18	1	5500
5	y	19	1	5500
6	y	14	1	5500
7	y	7	1	5500
8	y	7	1	5500
9	y	5	1	5500
10	y	16	1	5500
11	y	18	2	5498.2
12	y	9	2	5494.6
13	y	18	2	5498.2
14	y	14	2	5496.6
15	y	20	2	5499
16	y	6	2	5493.4
17	y	15	2	5497
18	y	6	2	5493.4
19	y	15	2	5497
20	y	13	2	5496.2
21	y	8	3	5505.8
22	y	17	3	5502.2
23	y	9	3	5505.4
24	y	6	3	5506.6
25	y	14	3	5503.4
26	y	17	3	5502.2
27	y	12	3	5504.2
28	y	20	3	5501
29	y	16	3	5502.6
30	y	12	3	5504.2
Detection Probability 30/30	100 %			

Type 5 Trials – 80 MHz

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 1							
Bursts in Trial: 9							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	90.4	7	1028		608.795	
2	2	83.1	7	1755		224.957	
3	2	83.2	7	1119		559.433	
4	3	73.3	7	1183	1670	407.17	
5	1	52.2	7			1008.947	
6	1	57.4	7			859.603	
7	1	54.9	7			798.71	
8	2	70.1	7	1777		340.517	
9	1	86.4	7			921.933	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 2							
Bursts in Trial: 13							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	1	67.9	6			473.159	
2	1	92.9	6			622.573	
3	1	70.8	6			458.866	
4	3	57.6	6	1123	1135	502.279	
5	2	93.1	6	1592		760.482	
6	1	81.2	6			298.725	
7	2	82.6	6	1875		121.478	
8	2	93.3	6	1268		175.622	
9	1	87.5	6			338.915	
10	2	69.3	6	1209		530.418	
11	2	88.2	6	1813		620.771	
12	3	72.5	6	1835	1426	487.954	
13	2	96.8	6	1033		675.777	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 3							
Bursts in Trial: 18							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	1	71	19			171.144	
2	1	86.4	19			359.043	
3	2	69	19	1985		561.077	
4	3	52.4	19	1383	1154	131.63	
5	1	92.8	19			175.023	
6	2	87.7	19	1733		10.167	
7	1	74.3	19			65.81	
8	1	97.2	19			62.513	
9	2	50.8	19	1457		530.137	
10	1	95.2	19			16.74	
11	1	90.9	19			363.153	
12	2	89.8	19	1565		582.437	
13	2	50.5	19	1718		341.72	
14	2	84.1	19	1864		544.643	
15	1	92.4	19			230.407	
16	1	51.7	19			432.9	
17	3	98.9	19	1759	1268	141.633	
18	3	89.5	19	1301	1623	524.467	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 4							
Bursts in Trial: 16							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	1	50	18			109.906	
2	2	84.1	18	1567		359.26	
3	1	87.7	18			326.3	
4	3	95.7	18	1778	1838	108.46	
5	1	60.3	18			502.49	
6	2	86.3	18	1882		721.48	
7	3	51.2	18	1378	1899	359.4	
8	1	72	18			69.96	
9	3	90	18	1610	1552	478.38	
10	1	93.9	18			361.27	
11	1	94.4	18			307.55	
12	1	91.8	18			736	
13	3	64.5	18	1547	1931	443.1	
14	2	57.7	18	1275		145.18	
15	2	58.6	18	1631		622.7	
16	1	85.7	18			648.3	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 5							
Bursts in Trial: 12							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	3	92.6	19	1183	1467	784.416	
2	1	55.8	19			322.71	
3	1	52.9	19			230.11	
4	3	73.7	19	1450	1130	462.19	
5	3	98.8	19	1946	1940	247.85	
6	2	62.7	19	1254		554.83	
7	2	73.1	19	1878		396.27	
8	3	93.7	19	1253	1008	506.17	
9	2	80.6	19	1027		550.96	
10	2	67.7	19	1483		679.82	
11	2	58.8	19	1506		452	
12	3	87.2	19	1748	1349	850.8	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 6							
Bursts in Trial: 11							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	1	55.1	14			188.066	
2	1	68.7	14			532.651	
3	2	63.6	14	1231		668.392	
4	1	50.4	14			412.333	
5	1	69.9	14			97.364	
6	1	87.5	14			328.795	
7	2	85.8	14	1075		49.025	
8	1	64.3	14			772.116	
9	1	54.4	14			0.407	
10	3	84.9	14	1616	1033	509.618	
11	1	98.3	14			473.009	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 7							
Bursts in Trial: 15							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	1	60	7			409.143	
2	2	82.2	7	1808		429.21	
3	3	59.2	7	1268	1606	13.19	
4	2	82.2	7	1195		587.14	
5	2	79.9	7	1671		55.08	
6	1	66.9	7			219.76	
7	2	74.6	7	1772		721.25	
8	3	64.1	7	1706	1960	532.52	
9	1	99.7	7			613.96	
10	2	63.5	7	1496		112.59	
11	2	67.2	7	1347		623.96	
12	3	76.3	7	1542	1668	87.46	
13	2	91.7	7	1198		427.6	
14	2	54.3	7	1968		178.8	
15	2	67.7	7	1418		469.9	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 8							
Bursts in Trial: 19							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	3	70.6	7	1617	1239	276.525	
2	3	53.8	7	1840	1683	368.711	
3	1	73.4	7			136.752	
4	2	67	7	1940		210.283	
5	3	50.3	7	1189	1728	380.114	
6	2	64	7	1058		460.795	
7	3	63.3	7	1195	1866	381.186	
8	2	83.2	7	1994		87.567	
9	1	51.6	7			372.348	
10	2	53	7	1463		500.429	
11	1	77.3	7			362.951	
12	3	64.2	7	1402	1812	363.872	
13	1	75.9	7			367.763	
14	3	60.8	7	1861	1564	496.204	
15	2	73.4	7	1553		478.385	
16	3	52.1	7	2000	1219	120.556	
17	2	73.7	7	1630		80.337	
18	1	58	7			377.258	
19	1	95.1	7			182.679	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 9							
Bursts in Trial: 15							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	71.6	5	1388		752.334	
2	2	76.2	5	1445		497.77	
3	1	70	5			232.62	
4	2	94.1	5	1963		355.68	
5	1	89.8	5			690.29	
6	2	58.6	5	1444		99.81	
7	1	80.1	5			706.94	
8	2	58	5	1918		310.43	
9	2	95.4	5	1640		81.94	
10	3	81.9	5	1683	1912	775.58	
11	2	72	5	1592		640.02	
12	2	78.4	5	1739		709.07	
13	2	59	5	1897		619.1	
14	1	89.3	5			48.6	
15	2	79.6	5	1685		555.9	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 10							
Bursts in Trial: 18							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	83.1	16	1627		150.244	
2	3	68.4	16	1992	1510	608.713	
3	1	56.8	16			280.987	
4	2	82.1	16	1091		59.68	
5	3	68.2	16	1035	1758	97.623	
6	2	94.6	16	1009		422.447	
7	3	91.3	16	1140	1318	27.15	
8	2	61.3	16	1771		265.453	
9	2	50.3	16	1301		107.617	
10	3	86.3	16	1822	1978	18.93	
11	2	55	16	1673		266.703	
12	3	96.7	16	1958	1759	518.887	
13	2	74.7	16	1593		232.75	
14	2	99	16	1870		148.923	
15	3	89	16	1537	1445	128.767	
16	2	76.8	16	1813		556.5	
17	2	72.8	16	1277		188.133	
18	1	69.1	16			63.467	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 11							
Bursts in Trial: 14							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	91.8	18	1219		131.464	
2	2	83.9	18	1118		574.437	
3	2	66.6	18	1576		224.274	
4	2	89.4	18	1993		378.391	
5	3	75.2	18	1411	1824	1.779	
6	2	74.7	18	1653		784.786	
7	2	76.4	18	1795		408.373	
8	2	75.6	18	1264		278.5	
9	1	99.1	18			129.017	
10	1	67.1	18			284.464	
11	2	74	18	1132		1.051	
12	3	77.2	18	1326	1632	255.629	
13	3	63.8	18	1765	1389	584.786	
14	2	89.4	18	1652		629.443	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 12							
Bursts in Trial: 9							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	98.8	9	1180		313.372	
2	2	56.8	9	1781		590.387	
3	2	51.6	9	1942		697.483	
4	3	64.6	9	1159	1528	442.46	
5	2	78.9	9	1759		775.127	
6	1	87.7	9			408.363	
7	1	74.5	9			888.28	
8	3	92.6	9	1124	1707	1236.967	
9	3	61	9	1795	1404	1250.433	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 19							
Bursts in Trial: 18							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	50.3	15	1464		328.801	
2	3	53.8	15	1492	1662	266.076	
3	3	72.7	15	1740	1212	181.247	
4	2	63.3	15	1097		230.93	
5	1	98	15			561.983	
6	3	85.4	15	1119	1749	194.627	
7	1	57.5	15			182.51	
8	2	78.1	15	1254		576.043	
9	3	92	15	1642	1571	487.547	
10	2	66.5	15	1432		183.79	
11	2	53.9	15	1727		559.153	
12	1	68.5	15			493.537	
13	2	65	15	1238		40.16	
14	3	89.9	15	1351	1415	434.973	
15	2	60.8	15	1070		391.137	
16	2	75.4	15	1854		165.1	
17	2	61.5	15	1196		301.233	
18	1	95.2	15			332.767	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 20							
Bursts in Trial: 18							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	3	70.4	13	1760	1517	203.453	
2	1	71.6	13			161.66	
3	2	71.7	13	1119		301.757	
4	2	93.6	13	1684		402.75	
5	3	57.9	13	1656	1405	639.273	
6	2	80	13	1432		420.197	
7	3	87.8	13	1093	1988	337.87	
8	3	61.8	13	1261	1797	23.713	
9	2	95.7	13	1286		622.567	
10	3	66.6	13	1270	1515	187.1	
11	3	83.7	13	1646	1568	269.803	
12	3	67.3	13	1758	1611	624.617	
13	3	92.3	13	1322	1739	88.37	
14	2	86.3	13	1649		47.983	
15	3	95.1	13	1631	1142	468.837	
16	2	84.5	13	1632		376.8	
17	3	67.9	13	1960	1607	191.833	
18	2	81.8	13	1621		3.867	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 27							
Bursts in Trial: 18							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	1	78.4	12			75.617	
2	2	53	12	1167		595.123	
3	1	68.9	12			361.357	
4	3	90.3	12	1204	1022	624.07	
5	2	78.1	12	1256		481.413	
6	2	77.9	12	1433		499.087	
7	2	52.1	12	1880		540.72	
8	1	95.6	12			391.283	
9	1	97.8	12			284.887	
10	1	79	12			366.35	
11	3	85.9	12	1062	1558	163.213	
12	3	79.5	12	1080	1935	263.367	
13	2	55.7	12	1506		354.14	
14	1	50.2	12			336.253	
15	2	51.1	12	1242		351.567	
16	1	96.7	12			31.5	
17	2	58.7	12	1783		171.233	
18	2	53.3	12	1111		648.167	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 28							
Bursts in Trial: 19							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	89.7	20	1145		59.926	
2	1	80.6	20			32.524	
3	3	80.5	20	1062	1289	316.142	
4	1	98	20			248.633	
5	3	82	20	1491	1444	117.454	
6	3	93.8	20	1145	1459	314.165	
7	2	52.5	20	1519		3.026	
8	2	69.9	20	1372		61.897	
9	1	63.2	20			322.458	
10	1	88.8	20			540.659	
11	1	93.3	20			1.641	
12	1	63.7	20			171.792	
13	2	82.8	20	1767		222.463	
14	2	55.6	20	1002		351.614	
15	2	90.3	20	1761		217.165	
16	3	91.5	20	1926	1517	88.996	
17	1	67.1	20			256.937	
18	3	55.6	20	1103	1004	107.058	
19	1	85.7	20			453.879	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 29							
Bursts in Trial: 17							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	97.1	16	1610		5.934	
2	2	70.2	16	1125		24.898	
3	3	83.6	16	1937	1052	141.935	
4	1	69.8	16			77.963	
5	2	86.5	16	1610		274.531	
6	3	78.3	16	1417	1911	235.438	
7	2	86.9	16	1367		194.216	
8	2	87.7	16	1573		237.484	
9	2	96.5	16	1836		61.711	
10	2	91.7	16	1216		192.869	
11	3	68	16	1128	1091	639.326	
12	1	86.6	16			646.444	
13	2	63.1	16	1224		449.102	
14	3	71.2	16	1966	1822	170.649	
15	2	56.4	16	1276		661.347	
16	2	72.9	16	1667		375.265	
17	1	81	16			582.582	

TYPE 5 PARAMETER SHEET							Rohde & Schwarz Pulse Sequencer
Trial Number : 30							
Bursts in Trial: 18							
Burst	Number of Pulses	Pulse Width (µsec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (µsec)	Pulse 2-to-3 PRI (µsec)	Start Location Within Interval (msec)	
1	2	91.1	12	1494		363.479	
2	3	76.5	12	1982	1492	284.52	
3	2	55.8	12	1787		236.837	
4	1	67	12			198.82	
5	3	70.7	12	1776	1310	579.763	
6	1	96.5	12			35.357	
7	2	71.2	12	1238		477.37	
8	3	74.4	12	1796	1099	345.063	
9	2	84.1	12	1814		22.917	
10	1	65.4	12			37.93	
11	2	54.3	12	1712		4.313	
12	3	51.4	12	1999	1883	58.207	
13	3	78.2	12	1558	1234	650.74	
14	1	51.7	12			565.233	
15	2	97.3	12	1089		444.147	
16	2	86.4	12	1967		658.1	
17	1	61.5	12			442.333	
18	2	52.1	12	1379		127.267	

TYPE 6 S Rohde & Schwarz K350 Pulse Sequencer DFS

Trial #	Detection (yes/no)
1	y
2	y
3	n
4	y
5	y
6	y
7	y
8	y
9	y
10	y
11	y
12	y
13	y
14	y
15	y
16	y
17	y
18	y
19	y
20	y
21	y
22	y
23	y
24	y
25	y
26	y
27	y
28	y
29	y
30	y
Detection Probability 29/30	97 %

-- End of Test Report --