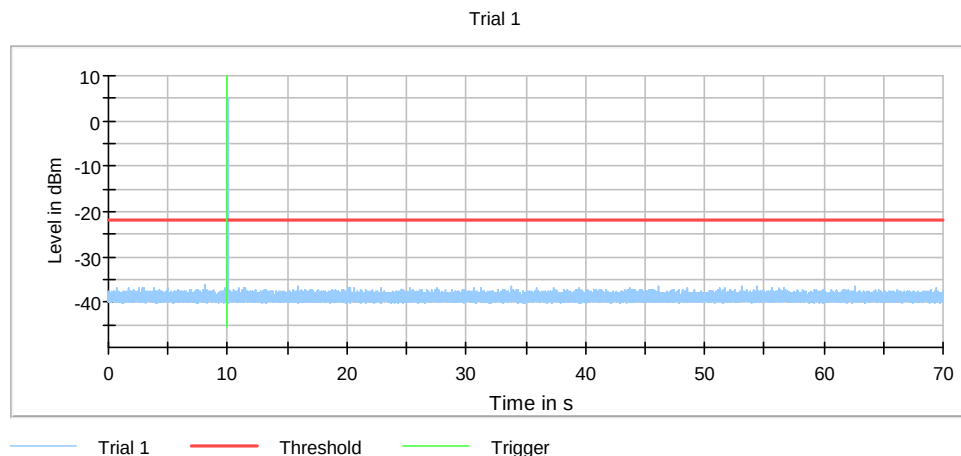




2.12.1.1.8 Radar Pulse Detailed Results (40MHz)

Trial Number	Random Trial used	Radar Type No.	Pulse Width (μs)	PRI (μs)	No. of Pulses	Comment
1	15	1	4.700	3412.900	10	
2	3	2	9.400	1043.800	15	
3	10	3	13.500	263.800	25	
4	2	4	26.900	366.100	20	
5	9	5	1.700	3257.300	20	
6	20	6	1.700	1655.600	45	
7	7	1	3.600	1472.700	10	
8	18	2	12.300	2237.100	15	
9	19	3	10.300	286.600	25	
10	12	4	26.800	289.600	20	
11	4	5	1.100	3115.200	30	
12	6	6	1.300	1865.600	45	
13	5	1	2.200	4016.000	10	
14	17	2	9.900	1044.900	15	
15	13	3	9.200	261.300	25	
16	14	4	22.800	424.600	20	
17	11	5	1.400	3257.300	20	
18	8	6	1.800	2232.100	45	
19	1	1	2.300	3039.500	10	
20	16	2	14.400	907.400	15	

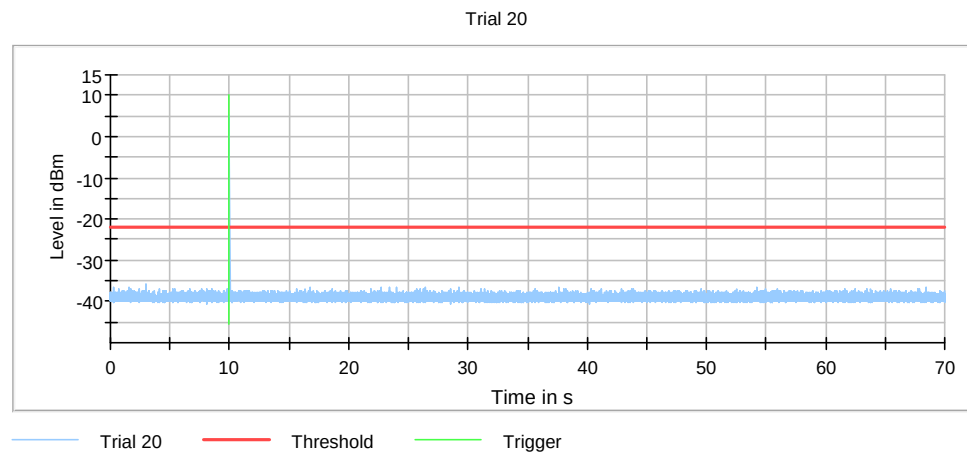
2.12.1.2 Sample of Plots (40MHz)



Capture 79 : Radar Detection – Trial 1



Product Service



Capture 80 : Radar Detection – Trial 20



2.13 Detection Bandwidth

Summary – 20MHz

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
DFS U-NII Detection Bandwidth	5260.000	13.5	20.000000	PASS
DFS U-NII Detection Bandwidth	5270.000	13.5	40.000000	PASS

DFS U-NII Detection Bandwidth (5260 MHz; 13.500 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.407(h), KDB 905462 D02 U-NII DFS Compliance Procedures New Rules v02

Measurement Summary

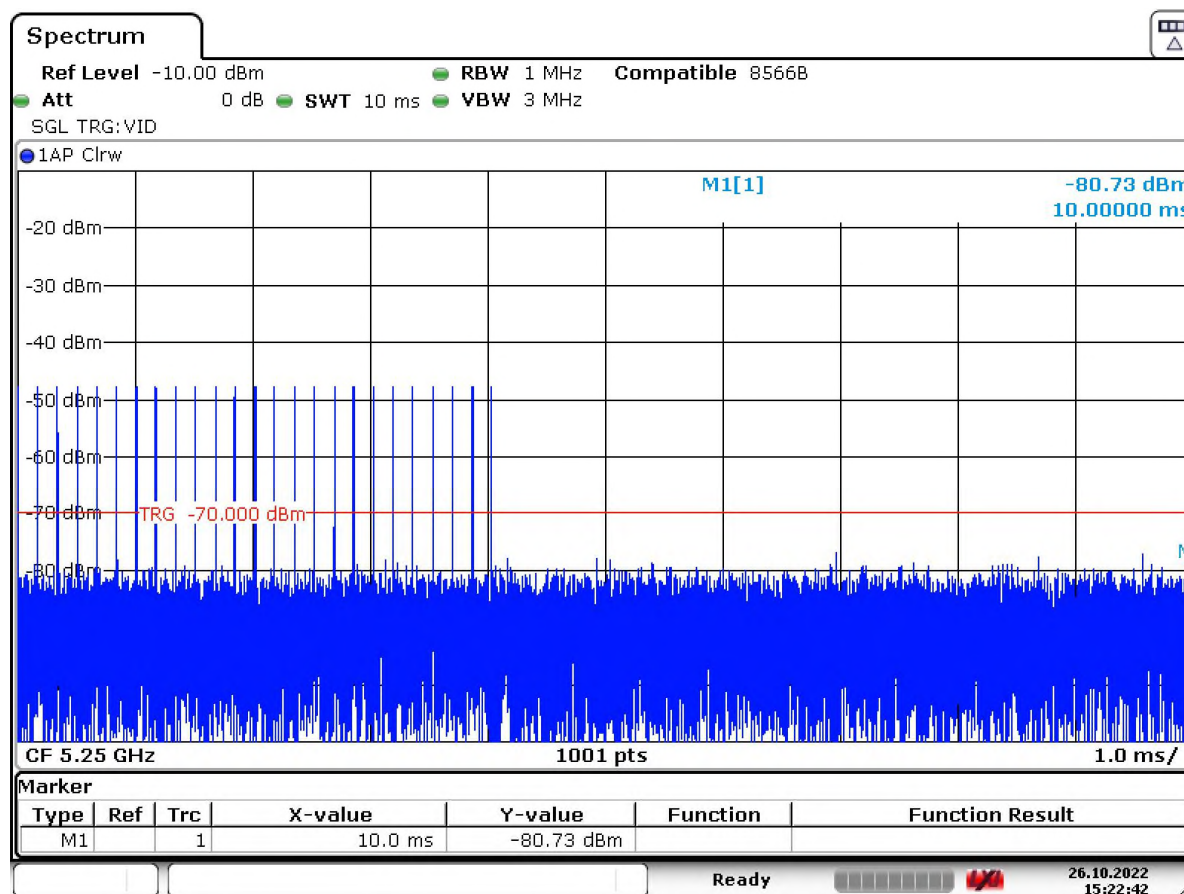
DUT Frequency (MHz)	Radar Type No.	Measured Detection Bandwidth (MHz)	99% Transmission power Bandwidth (MHz)	Overall Result
5260.000000	2	22.000000	20.000000	Pass

(continuation of the "Measurement Summary" table from column 5..)

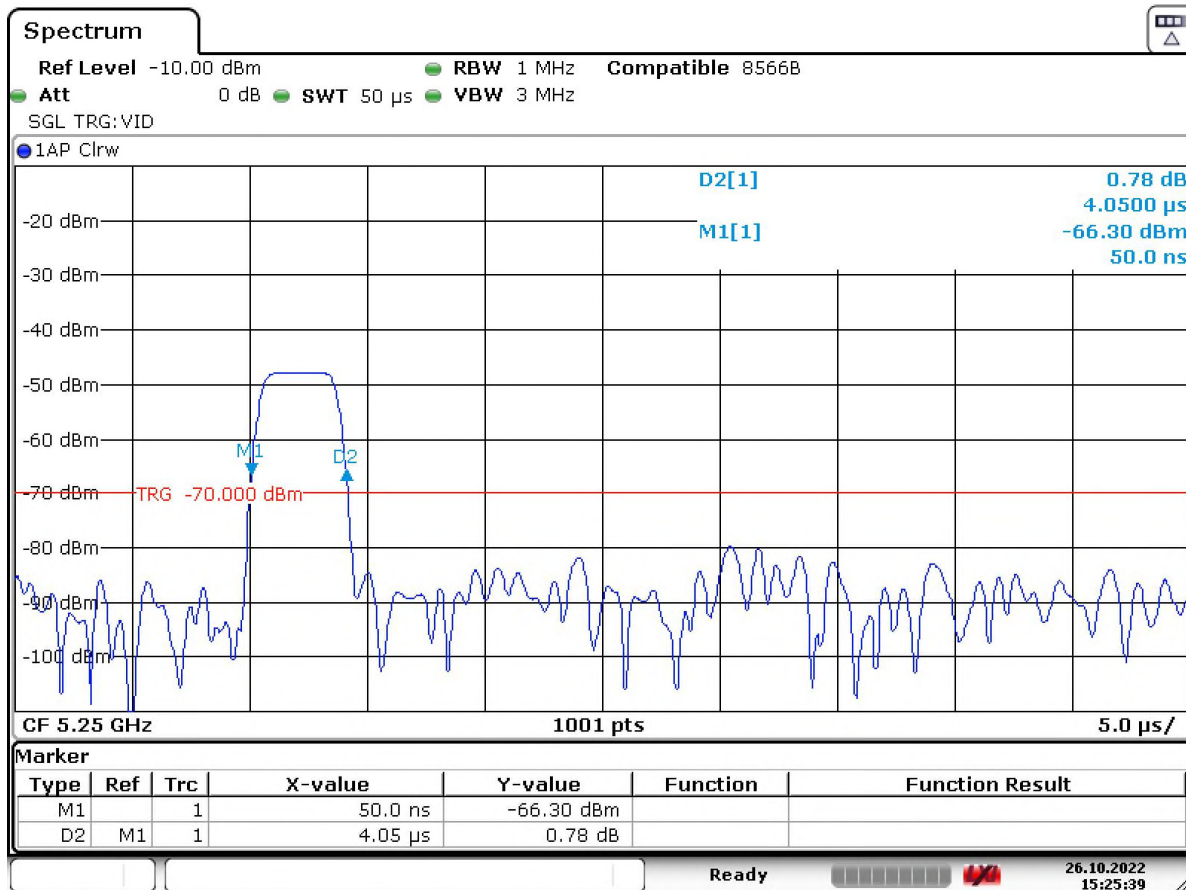


Detection Bandwidth Detailed Results

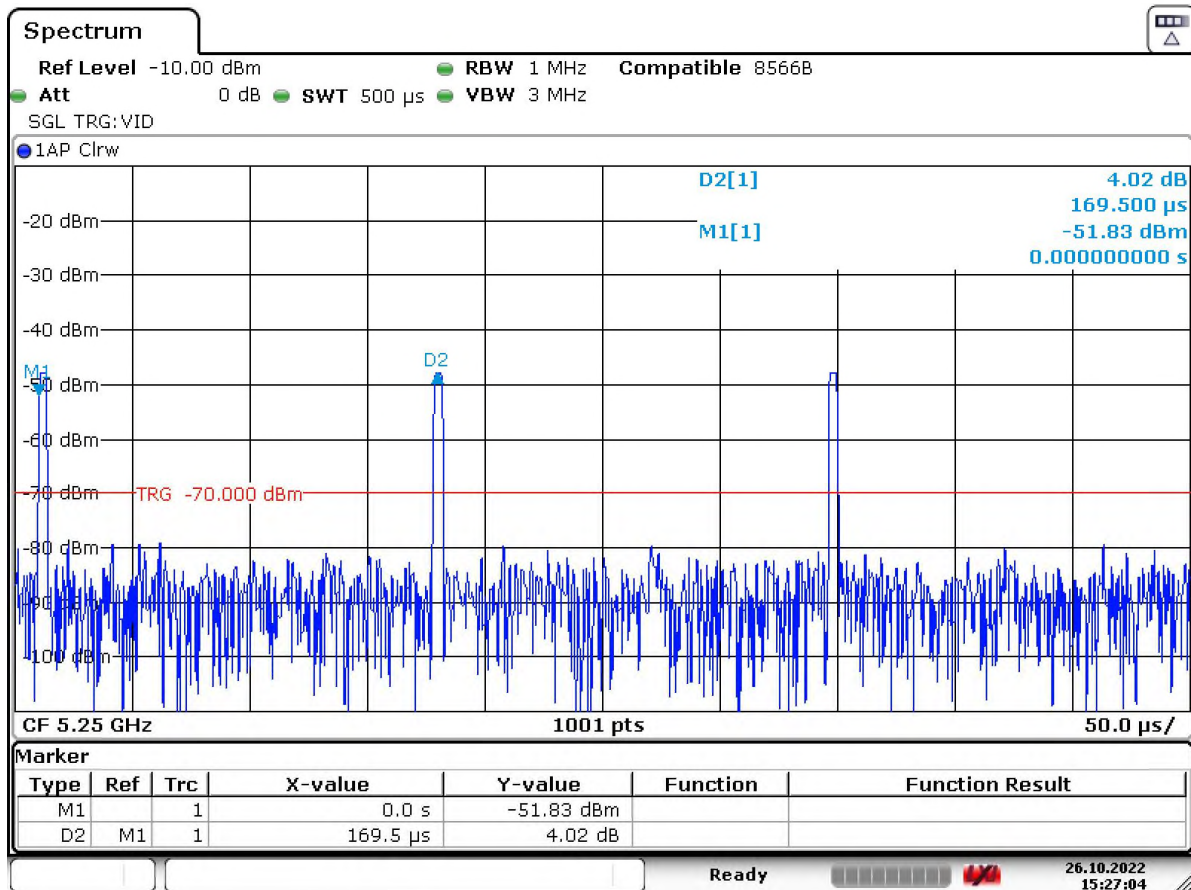
Check Frequency (MHz)	Detection count	Percentage of Detection	Minimum Limit	Single Measurement Result	Single Measurement Comment
5250.0	10 of 10	100 %	90%	PASS	Lower edge
5249.0	0 of 10	100 %	90%	N/A	Lower detection
5250-5270	10 of 10	100 %	90%	PASS	In band
5270.0	10 of 10	100 %	90%	PASS	Upper Edge
5271.0	10 of 10	100 %	90%	PASS	
5272.0	10 of 10	100 %	90%	PASS	
5273.0	0 of 10	100 %	90%	N/A	Upper detection



Date: 26.OCT.2022 15:22:42



Date: 26.OCT.2022 15:25:40



Date: 26.OCT.2022 15:27:04



DFS U-NII Detection Bandwidth (5270 MHz; 13.500 dBm; 40 MHz)

Test according to FCC title 47 part 15 §15.407(h), KDB 905462 D02 U-NII DFS Compliance Procedures New Rules v02

Measurement Summary – 40MHz

DUT Frequency (MHz)	Radar Type No.	Measured Detection Bandwidth (MHz)	99% Transmission power Bandwidth (MHz)	Overall Result	Overall Comment
5270.000000	2	40.000000	40.000000	PASS	

Detection Bandwidth Detailed Results

Check Frequency (MHz)	Detection count	Percentage of Detection	Minimum Limit	Single Measurement Result	Single Measurement Comment
5250.0	10 of 10	100 %	90%	PASS	Lower edge
5249.0	0 of 10	100 %	90%	N/A	Lower detection
5250-5290	10 of 10	100 %	90%	PASS	In band
5290.0	10 of 10	100 %	90%	PASS	Upper Edge
5291.0	4 of 10	100 %	90%	N/A	Upper detection



U-NII Detection Bandwidth Sweep

Setting	Instrument Value	Target Value
Center Frequency	5.27000 GHz	5.27000 GHz
Span	ZeroSpan	ZeroSpan
RBW	3.000 MHz	>= 3.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	30001	~ 30001
SweepTime	12.000 s	12.000 s
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	0.000 s	0.000 s

OSP Video Detector

Setting	Instrument Value	Target Value
Measurement Time	12.000 s	12.000 s
Samplerate	2500 kHz	2500 kHz
Tracepoints	30000000	30000000
Time resolution	4.000 μ s	4.000 μ s
Detector	Peak	Peak



3 TEST INSTRUMENTATION

3.1.1 List of Instrumentations

List of absolute measurements and other principal items of test equipment.

Instrument	Manufacturer	Type No.	Serial No.	Last Calibration	Calibration Due
Bilog Antenna	TESEQ	CBL 6111D	SSG013965	2021-05-04	2022-05-04
Horn Antenna 3MCH 00003	ETS	3117	LAVE04211	2021-03-30	2023-03-30
EMI Receiver	Rohde & Schwarz	ESU26	SSG013729	2021-03-31	2023-03-31
Pre-amp 18-40G	microComp Nordie	MCN-40-18004000-3.3-10P	SSG014000	2021-11-04	2023-11-04
Coaxial Cable	Huber & Suhner	106A	SSG012455	2021-01-05	2023-01-05
Coaxial Cable	Huber & Suhner	106A	SSG012711	2021-01-05	2023-01-05
Coaxial Cable	Huber & Suhner	104PEA	SSG012041	2021-01-05	2023-01-05
Coaxial Cable	Huber & Suhner	ST18/Nm/Nm/36	SSG012785	2021-01-06	2023-01-06
Coaxial Cable	Micro-Coax	UFA 210B-1-1500-504504	SSG012376	2021-01-06	2023-01-06
Power Supply	Hewlett Packard	6216A	SSG013063	not required	not required
Digital Multimeter	Fluke	115	SSG013271	2021-10-20	2023-10-20
Handheld ESM Speed Programmer	EbmPapst	HX0C-003-000-02	SSG013725	NCR	NCR
Transient Limiter	Hewlett Packard	11947A	SSG012403	2021-01-29	2023-04-29
Coaxial Cable	Huber & Suhner	104PEA	SSG013080	2022-01-12	2024-01-13
Line Impedance Stabilization Network	Emco	3825/2	SSG012040	2021-04-07	2023-04-07
Current Probe	Ailtech	94111-1	SSG012043	2021-10-27	2023-10-27
Termination	Narda	374BNM	SSG012082	2021-10-25	2023-10-25
Line Impedance Stabilization Network	Fischer Custom Communications Inc.	F-070117-1009-4	SSG013319	2021-10-13	2023-10-13
Power Supply	Xantrex	HPD 60-5	SLX04655	NCR	NCR
TS8997 System	Rohde & Schwarz	1969001037	1969001037	2022-05-12	2024-05-12
N/A: No applicable O/P Mon – Output monitored with Calibrated Equipment					

Diagram of Test Set-ups

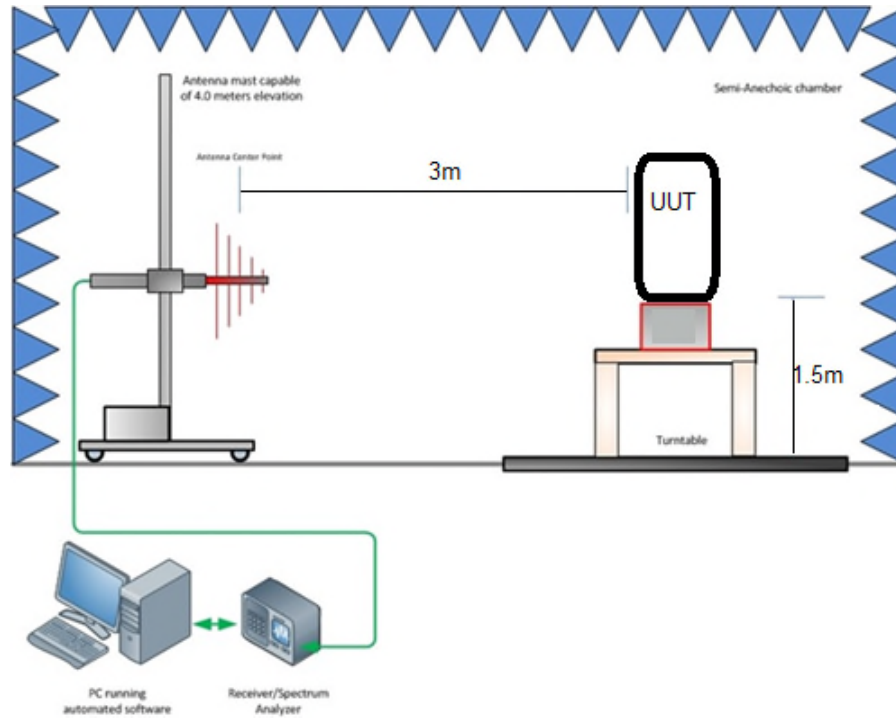


Figure 5: Radiated Emissions Test Setup up to 1 GHz

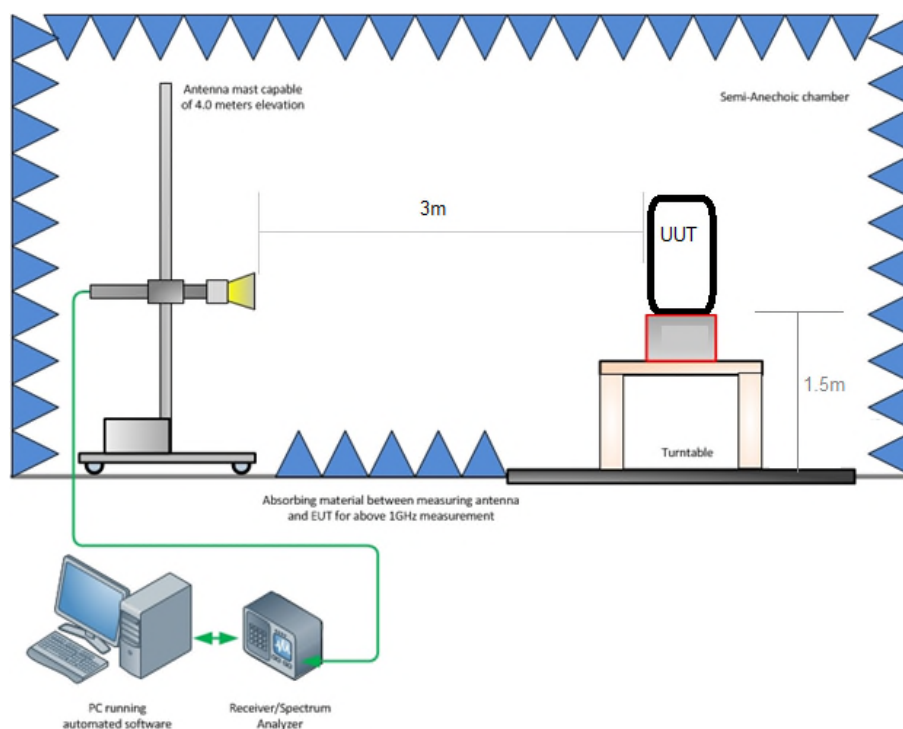


Figure 6: Radiated Emissions Test Setup above 1GHz



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Testing Laboratory
Certificate #2955.19

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