



**CFR 47 FCC PART 15 SUBPART E
ISED RSS-247 Issue 4**

TEST REPORT

For

Laser Cutter And Engraver

**MODEL NUMBER: Creality Falcon T1, Creality Falcon T1 Fiber 20W,
Creality Falcon T1 Diode 40W, Creality Falcon T1 Diode 20W,
Creality Falcon T1 UV 5W**

REPORT NUMBER: E04A26030708F00403

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Prepared for

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**This report is based on a single evaluation of the submitted sample(s) of the above
mentioned product, it does not imply an assessment of the production of the products.**

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	June 30, 2026	Initial Issue	

Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
ON TIME AND DUTY CYCLE	ANSI C63.10-2020, Clause 12.2	None; for reporting purposes only.	Pass
6dB AND 26dB EMISSION BANDWIDTH AND 99% OCCUPIED BANDWIDTH	KDB 789033 D02 v02r01 Section C.1	FCC Part 15.407 (a)/(e), RSS-247 Issue 4, Clause 7.3.5.2 RSS-Gen Clause 6.7	Pass
CONDUCTED OUTPUT POWER	KDB 789033 D02 v02r01 Section E.3.a (Method PM)/KDB 789033 D02 v02r01 Section E.3.a (Method PM) Section E.2.d (Method SA-2)	FCC 15.407 (a) RSS-247 Clause 7.3	Pass
POWER SPECTRAL DENSITY	KDB 789033 D02 v02r01 Section F	FCC 15.407 (a) RSS-247 Clause 7.3	Pass
AC POWER LINE CONDUCTION EMISSION	ANSI C63.10-2020, Clause 6.2.	FCC 15.207, RSS-GEN Clause 8.8	Pass
RADIATED EMISSIONS AND BAND EDGE MEASUREMENT	KDB 789033 D02 v02r01 Section G.3, G.4, G.5, and G.6	FCC 15.407 (b) FCC 15.209 FCC 15.205 RSS-247 Clause 7.3 RSS-GEN Clause 8.9	Pass
FREQUENCY STABILITY	ANSI C63.10-2020, Clause 6.8	FCC 15.407 (g)	Pass
DYNAMIC FREQUENCY SELECTION (SLAVE)	KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02	FCC Part 15.407 (h), RSS-247 Issue 4 Clause 7.3.6	Pass
DYNAMIC FREQUENCY SELECTION (MASTER)	KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02	FCC Part 15.407 (h), RSS-247 Issue 4 Clause 7.3.6	N/A
ANTENNA REQUIREMENT	N/A	FCC 47 CFR Part 15.203/ 15.407(a)(1) (2), RSS-Gen Issue 5, Clause 6.8	Pass
ADDITIONAL REQUIREMENTS	N/A	FCC Part 15.407 (c), RSS-247 Issue 4 Clause 7.3.7	Pass

Note:

1. N/A: In this whole report not applicable.
2. For ISSED, this report is also performed according to ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 standards.

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

*The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART E, ISSED RSS-247 Issue 4 > when <Accuracy Method> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Shenzhen Creality Ecosystem Technology Co., Ltd.
Address: Room 1205, JinXiuHongDu Building, Meilong Blvd., Longhua Dist., Shenzhen, China 518131

Manufacturer Information

Company Name: Shenzhen Creality Ecosystem Technology Co., Ltd.
Address: Room 1205, JinXiuHongDu Building, Meilong Blvd., Longhua Dist., Shenzhen, China 518131

EUT Information

Product Description: Laser Cutter And Engraver
Model: Creality Falcon T1
Series Model: Creality Falcon T1 Fiber 20W, Creality Falcon T1 Diode 40W, Creality Falcon T1 Diode 20W, Creality Falcon T1 UV 5W
Brand: 
Sample Received Date: March 16, 2026
Sample Status: Normal
Sample ID: A26030708 004
Date of Tested: March 16, 2026 to June 30, 2026

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART E ISED RSS-247 Issue 4	Pass

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2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART E, ISED RSS-247 Issue 4, KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 414788 D01 Radiated Test Site v01r01, KDB 662911 D01 Multiple Transmitter Output v02r01, CFR 47 FCC Part 2, ANSI C63.10-2020, ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 and ISED RSS-GEN Issue 5

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 6947.01) Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1343) Guangdong Global Testing Technology Co., Ltd. has been recognized to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification rules ISED (Company No.: 30714) Guangdong Global Testing Technology Co., Ltd. has been registered and fully described in a report filed with ISED. The Company Number is 30714 and the test lab Conformity Assessment Body Identifier (CABID) is CN0148.
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Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Items	k	Uncertainty
Emission Bandwidth	1.96	±9.0 PPM
Conduct Output Power	1.96	± 1.12 dB
Power Spectral Density	1.96	± 2.1 dB
Conducted Spurious Emission	1.96	9 kHz-30 MHz: ± 0.95 dB 30 MHz-1 GHz: ± 1.5 dB 1GHz-12.75GHz: ± 1.8 dB 12.75 GHz-26.5 GHz: ± 2.1dB 26.5 GHz-40 GHz: ± 2.6 dB
Frequency Stability	1.96	±9.0 PPM
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.		

Test Item	Frequency Range	k	U(dB)
Conducted emissions from the AC mains power ports (AMN)	150 kHz ~ 30 MHz	2	3.37
Radiated emissions	9 kHz ~ 30 MHz	2	4.16
Radiated emissions	30 MHz ~ 1 GHz	2	3.79
Radiated emissions	1 GHz ~ 18 GHz	2	5.62
Radiated emissions	18 GHz ~ 40 GHz	2	5.54
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.			

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name		Laser Cutter And Engraver
Model		Creality Falcon T1
Series Model		Creality Falcon T1 Fiber 20W, Creality Falcon T1 Diode 40W, Creality Falcon T1 Diode 20W, Creality Falcon T1 UV 5W
Model Difference		The difference of the models are laser module and field lens, others are the same.
Hardware Version		V1.1.20
Software Version		V1.0
Adapter Ratings		MODEL: GJ350WD-2401500W1 INPUT: 100-240V~ 50/60Hz 5.0A OUTPUT: 24.0V==15.0A 360.0W
Power Supply	AC	120V/60Hz
	DC	24.0V

Frequency Band:	5150 MHz to 5250 MHz (U-NII-1) 5250 MHz to 5350 MHz (U-NII-2A) 5470 MHz to 5725 MHz (U-NII-2C) 5 725 MHz to 5 850 MHz (U-NII-3)
Frequency Range:	5180 MHz to 5240 MHz 5260 MHz to 5320 MHz 5500 MHz to 5700 MHz 5745 MHz to 5825 MHz
Support Standards:	IEEE 802.11a/n/ac/ax
TPC Function:	Not Support
DFS Operational mode:	Slave without radar Interference detection function
Type of Modulation:	IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax: OFDMA(1024-QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Channel Spacing:	IEEE 802.11a/n-HT20/ac-VHT20/ax HE20: 20 MHz IEEE 802.11n-HT40/ac-VHT40/ax HE40: 40 MHz
Data Rate:	IEEE 802.11a: Up to 54 Mbps IEEE 802.11n-HT20: Up to MCS7 IEEE 802.11n-HT40: Up to MCS7 IEEE 802.11ac-VHT20: Up to MCS9 IEEE 802.11ac-VHT40: Up to MCS9 IEEE 802.11ax-HE20: Up to MCS11 IEEE 802.11ax-HE40: Up to MCS11
Number of Channels:	5150 MHz to 5250 MHz: 4 for 802.11a/n HT20/ac VHT20/ax HE20 2 for 802.11n HT40/ac VHT40/ax HE40 5250 MHz to 5350 MHz: 4 for 802.11a/n HT20/ac VHT20/ax HE20 2 for 802.11n HT40/ac VHT40/ax HE40 5470 MHz to 5725 MHz:

	11 for 802.11a/n HT20/ac VHT20/ax HE20 5 for 802.11n HT40/ac VHT40/ax HE40 5725 MHz to 5850 MHz: 5 for 802.11a/n HT20/ac VHT20/ax HE20 2 for 802.11n HT40/ac VHT40/ax HE40
Maximum conducted output power:	U-NII-1 IEEE 802.11a: 14.81 dBm IEEE 802.11n HT20: 13.69 dBm IEEE 802.11n HT40: 12.58 dBm IEEE 802.11ac VHT20: 13.49 dBm IEEE 802.11ac VHT40: 12.5 dBm IEEE 802.11ax HE20: 13.53 dBm IEEE 802.11ax HE40: 12.46 dBm U-NII-2A IEEE 802.11a: 14.68 dBm IEEE 802.11n HT20: 13.65 dBm IEEE 802.11n HT40: 12.56 dBm IEEE 802.11ac VHT20: 13.66 dBm IEEE 802.11ac VHT40: 12.67 dBm IEEE 802.11ax HE20: 13.66 dBm IEEE 802.11ax HE40: 12.74 dBm U-NII-2C IEEE 802.11a: 14.41 dBm IEEE 802.11n HT20: 13.79 dBm IEEE 802.11n HT40: 12.89 dBm IEEE 802.11ac VHT20: 13.73 dBm IEEE 802.11ac VHT40: 12.6 dBm IEEE 802.11ax HE20: 13.86 dBm IEEE 802.11ax HE40: 13.03 dBm U-NII-3 IEEE 802.11a: 14.05 dBm IEEE 802.11n HT20: 13.49 dBm IEEE 802.11n HT40: 12.93 dBm IEEE 802.11ac VHT20: 13.41 dBm IEEE 802.11ac VHT40: 12.8 dBm IEEE 802.11ax HE20: 13.57 dBm IEEE 802.11ax HE40: 12.66 dBm
Antenna Type:	FPC Antenna
Antenna Gain:	3.92 dBi
EUT Test software:	MobaXterm
Note:	The Antenna Gain was provided by customer, and this information may affect the validity of the results, customer should be responsible for this.

5.2. CHANNEL LIST

UNII-1 (For Bandwidth=20MHz)		UNII-1 (For Bandwidth=40MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190
40	5200	46	5230
44	5220		

48	5240		
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UNII-2A (For Bandwidth=20MHz)		UNII-2A (For Bandwidth=40MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270
56	5280	62	5310
60	5300		
64	5320		

UNII-2C (For Bandwidth=20MHz)		UNII-2C (For Bandwidth=40MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510
104	5520	110	5550
108	5540	118	5590
112	5560	126	5630
116	5580	134	5670
120	5600		
124	5620		
128	5640		
132	5660		
136	5680		
140	5700		

UNII-3 (For Bandwidth=20MHz)		UNII-3 (For Bandwidth=40MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755
153	5765	159	5795
157	5785		
161	5805		
165	5825		

5.3. MAXIMUM CONDUCTED POWER

UNII-1 BAND(FCC&ISED)

IEEE Std. 802.11	Frequency (MHz)	Maximum Conducted Power (dBm)	Max EIRP (dBm)
a	5150 ~ 5250	14.81	18.73
n HT20		13.69	17.61
n HT40		12.58	16.5
ac VHT20		13.49	17.41
ac VHT40		12.5	16.42
ax HE20		13.53	17.45
ax HE40		12.46	16.38

UNII-2A BAND(FCC&ISED)

IEEE Std. 802.11	Frequency (MHz)	Maximum Conducted Power (dBm)	Max EIRP (dBm)
a	5250 ~ 5350	14.68	18.6
n HT20		13.65	17.57
n HT40		12.56	16.48
ac VHT20		13.66	17.58
ac VHT40		12.67	16.59
ax HE20		13.66	17.58
ax HE40		12.74	16.66

UNII-2C BAND(FCC&ISED)

IEEE Std. 802.11	Frequency (MHz)	Maximum Conducted Power (dBm)	Max EIRP (dBm)
a	5470 ~ 5725	14.41	18.33
n HT20		13.79	17.71
n HT40		12.89	16.81
ac VHT20		13.73	17.65
ac VHT40		12.6	16.52
ax HE20		13.86	17.78
ax HE40		13.03	16.95

UNII-3 BAND(FCC&ISED)

IEEE Std. 802.11	Frequency (MHz)	Maximum Conducted Power (dBm)	Max EIRP (dBm)
a	5725 ~ 5850	14.05	17.97
n HT20		13.49	17.41
n HT40		12.93	16.85
ac VHT20		13.41	17.33
ac VHT40		12.8	16.72
ax HE20		13.57	17.49
ax HE40		12.66	16.58

5.4. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter	
Test Software	MobaXterm

UNII-1

Mode	Rate	Channel	Soft set value
			ANT 1
11a	6M	36	17
		40	17
		48	17
11n HT20	MCS0	36	16
		40	16
		48	16
11n HT40	MCS0	38	15
		46	15
11ac VHT20	MCS0	36	16

		40	16
		48	16
11ac VHT40	MCS0	38	15
		46	15
11ax HE20	MCS0	36	16
		40	16
		48	16
11ax HE40	MCS0	38	15
		46	15

UNII-2A

Mode	Rate	Channel	Soft set value
			ANT 1
11a	6M	52	17
		56	17
		64	17
11n HT20	MCS0	52	16
		56	16
		64	16
11n HT40	MCS0	54	15
		62	15
11ac VHT20	MCS0	52	16
		56	16
		64	16
11ac VHT40	MCS0	54	15
		62	15
11ax HE20	MCS0	52	16
		56	16
		64	16
11ax HE40	MCS0	54	15
		62	15

UNII-2C

Mode	Rate	Channel	Soft set value
			ANT 1
11a	6M	100	15
		116	16
		140	16
11n HT20	MCS0	100	14
		116	15
		140	15
11n HT40	MCS0	102	13
		118	14
		134	14
11ac VHT20	MCS0	100	14
		116	15
		140	15
11ac VHT40	MCS0	102	13
		118	14
		134	13
11ax HE20	MCS0	100	14

11ax HE40	MCS0	116	15
		140	15
		102	13
		118	14
		134	14

UNII-3

Mode	Rate	Channel	Soft set value
			ANT1
11a	6M	149	15
		157	15
		165	15
11n HT20	MCS0	149	14
		157	14
		165	15
11n HT40	MCS0	151	13
		159	13
11ac VHT20	MCS0	149	14
		157	14
		165	15
11ac VHT40	MCS0	151	13
		159	13
11ax HE20	MCS0	149	14
		157	14
		165	15
11ax HE40	MCS0	151	13
		159	13

THE WORSE CASE CONFIGURATIONS

The EUT was tested in the following configuration(s):

Controlled in test mode using a software application on the EUT supplied by customer. The application was used to enable a continuous transmission and to select the mode, test channels, bandwidth, data rates as required.

Test channels referring to section 5.4.

Maximum power setting referring to section 5.4.

Worst case Data Rates declared by the customer:

802.11a 20 mode: 6 Mbps
 802.11n HT20 mode: MCS0
 802.11n HT40 mode: MCS0
 802.11ac VHT20 mode: MCS0
 802.11ac VHT40 mode: MCS0
 802.11ax HE20 mode: MCS0
 802.11ax HE40 mode: MCS0

5.5. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna No.	Frequency Band	Antenna Type	Max Antenna Gain (dBi)
1	5150-5850	FPC Antenna	3.92

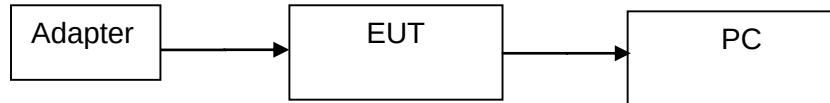
IEE Std. 802.11	Transmit and Receive Mode	Description
802.11a	☒ TX, RX	ANT 1 can be used as transmitting/receiving antenna.
802.11n HT20	☒ TX, RX	ANT 1 can be used as transmitting/receiving antenna.
802.11n HT40	☒ TX, RX	ANT 1 can be used as transmitting/receiving antenna.
802.11ac VHT20	☒ TX, RX	ANT 1 can be used as transmitting/receiving antenna.
802.11ac VHT40	☒ TX, RX	ANT 1 can be used as transmitting/receiving antenna.
802.11ax HE20	☒ TX, RX	ANT 1 can be used as transmitting/receiving antenna.
802.11ax HE40	☒ TX, RX	ANT 1 can be used as transmitting/receiving antenna.

5.6. SUPPORT UNITS FOR SYSTEM TEST

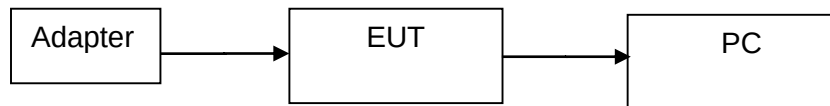
No.	Equipment	Manufacturer	Model No.	Serial No.
1	PC	Lenovo	T14	/
2	Adapter	Shenzhen Guijin Technology Co.,Ltd.	GJ350WD-2401500W1	/
3	Test board	/	/	/

5.7. SETUP DIAGRAM

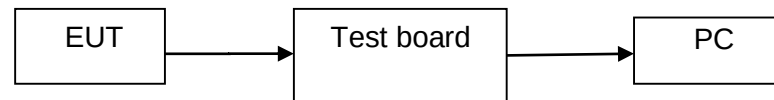
AC conducted emission:



Radiated Emission:



RF conducted:



6. MEASURING EQUIPMENT AND SOFTWARE USED

Test Equipment of Conducted RF					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Spectrum Analyzer	Rohde & Schwarz	FSV40	102257	2025/08/25	2026/08/24
Spectrum Analyzer	KEYSIGHT	N9020A	MY51285127	2025/08/25	2026/08/24
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY61253075	2025/08/25	2026/08/24
Vector Signal Generator	Rohde & Schwarz	SMM100A	101899	2025/08/25	2026/08/24
RF Control box	MWRF-test	MW100-RFCB	MW220926GTG	2025/08/25	2026/08/24
Wideband Radio Communication Tester	Rohde & Schwarz	CMW270	102792	2025/08/25	2026/08/24
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	103235	2025/08/25	2026/08/24
temperature humidity chamber	Espec	SH-241	SH-241-2014	2025/08/25	2026/08/24
RF Test Software	MWRF-test	MTS8310E (Ver. V2/0)	N/A	N/A	N/A

Test Equipment of Radiated emissions below 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2146	2025/08/23	2026/08/22
EMI Test Receiver	Rohde & Schwarz	ESCI3	101144	2025/08/23	2026/08/22
Pre-Amplifier	HZEMC	HPA-9K0130	HYPA21001	2025/08/23	2026/08/22
Biconilog Antenna	Schwarzbeck	VULB 9168	01315	2025/09/20	2028/09/19
Biconilog Antenna	ETS	3142E	00243651	2025/02/22	2028/02/21
Loop Antenna	ETS	6502	00243668	2025/02/22	2028/02/21
RF Cable	TIMES Microwave	LMR240UF-NMNM-14M	N/A	2025/08/23	2026/08/22
RF Cable	TIMES Microwave	HF205-NMNM-11.00M	N/A	2025/08/23	2026/08/22
RF Cable	JCT	JCT-06S-NJ-NJ-2.5M	N/A	2025/08/23	2026/08/22
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE)	N/A	N/A	N/A

Test Equipment of Radiated emissions above 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2149	2025/08/23	2026/08/22
Spectrum Analyzer	Rohde & Schwarz	FSV40	101413	2025/08/23	2026/08/22
Pre-Amplifier	HZEMC	HPA-1G1850	HYPA21003	2025/08/23	2026/08/22

Horn antenna	ETS	3117	00246069	2025/02/22	2028/02/21
Pre-Amplifier	HzEMC	HPA-184057	HYP A21004	2025/08/23	2026/08/22
Horn antenna	ETS	3116C	00246265	2025/02/22	2028/02/21
RF Filter Bank	HzEMC	HSW-F18	HSWF2218E01	2025/08/23	2026/08/22
RF Filter Bank	HzEMC	HPF18	HPF2218E02	2025/08/23	2026/08/22
RF Cable	TIMES Microwave	HF205-NMMN- 7.00M	N/A	2025/08/23	2026/08/22
RF Cable	TIMES Microwave	HF205-NMMN- 2.50M	N/A	2025/08/23	2026/08/22
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE+)	N/A	N/A	N/A

Test Equipment of Conducted emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Shielded Room	CHENG YU	8m*5m*4m	N/A	2025/08/23	2026/08/22
EMI Test Receiver	Rohde & Schwarz	ESR3	102647	2025/08/23	2026/08/22
LISN/AMN	Rohde & Schwarz	ENV216	102843	2025/08/23	2026/08/22
NNLK 8129 RC	Schwarzbeck	NNLK 8129 RC	5046	2025/08/23	2026/08/22
Test Software	Farad	EZ-EMC (Ver. EMC-con-3A1 1+)	N/A	N/A	N/A

7. ANTENNA PORT TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

LIMITS

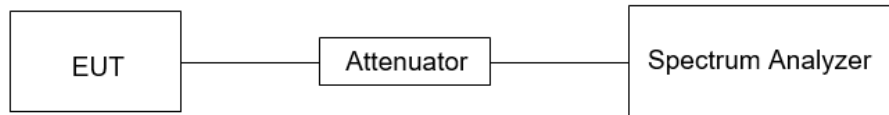
None; for reporting purposes only.

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.B.

The zero-span mode on a spectrum analyzer or EMI receiver, if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set $RBW \geq EBW$ if possible; otherwise, set RBW to the largest available value. Set $VBW \geq RBW$. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$, where T is defined in II.B.1.a), and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

TEST SETUP



TEST ENVIRONMENT

Temperature	25.6°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to Appendix C

7.2. 6DB AND 26DB EMISSION BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15, Subpart E ISED RSS-247 ISSUE 4		
Test Item	Limit	Frequency Range (MHz)
26 dB Emission Bandwidth	For reporting purposes only.	5150 ~ 5250
26 dB Emission Bandwidth	For reporting purposes only.	5250 ~ 5350
26 dB Emission Bandwidth	For reporting purposes only.	5470 ~ 5725
6 dB Emission Bandwidth	The minimum 6 dB emission bandwidth shall be 500 kHz.	5725 ~ 5850
99 % Occupied Bandwidth	For reporting purposes only.	5150 ~ 5825 (For ISED)

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.C1. for 26 dB Emission Bandwidth; section II.C2. for 6 dB Emission Bandwidth; section II.D. for 99 % Occupied Bandwidth.

Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 6 dB Emission Bandwidth: RBW=100 kHz For 26 dB Emission bandwidth: approximately 1 % of the EBW. For 99 % Occupied Bandwidth: approximately 1 % ~ 5 % of the OBW.
VBW	For 6 dB Bandwidth: $\geq 3 \times \text{RBW}$ For 26 dB Bandwidth: $> 3 \times \text{RBW}$ For 99 % Bandwidth: $> 3 \times \text{RBW}$
Trace	Max hold
Sweep	Auto couple

a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

b) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6/26 dB relative to the maximum level measured in the fundamental emission.

Calculation for 99 % Bandwidth of UNII-2C and UNII-3 Straddle Channel:

For Example: Fundamental Frequency: 5720 MHz

99 % OBW: 21.00 MHz

Turning Frequency: 5725 MHz

99 % Bandwidth of UNII-2C Band Portion = $(5725 - (5720 - (21.00/2))) = 15.50 \text{ MHz}$

99 % Bandwidth of UNII-3 Band Portion = $(5720 + (21.00/2) - 5725) = 5.50 \text{ MHz}$

Calculation for 26 dB Bandwidth of UNII-2C Straddle Channel:

For Example: Fundamental frequency: 5720 MHz

26 dB BW: 20.00 MHz

FL: 5710.16 MHz

FH: 5730.16 MHz

Turning Frequency: 5725 MHz

26 dB Bandwidth of UNII-2C Band Portion = $5725 - 5710.16 = 14.84$ MHz

Calculation for 6dB Bandwidth of UNII-3 Straddle Channel:

For Example: Fundamental frequency: 5720 MHz

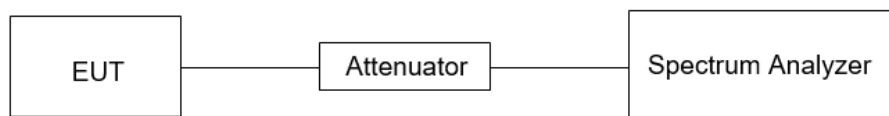
6 dB BW: 16.44 MHz

FL: 5711.76 MHz

FH: 5728.2 MHz

Turning Frequency: 5725 MHz

6 dB Bandwidth of UNII-3 band Portion = $5728.2 - 5725 = 3.2$ MHz

TEST SETUP**TEST ENVIRONMENT**

Temperature	25.6°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to Appendix C

7.3. CONDUCTED OUTPUT POWER

LIMITS

CFR 47 FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Conducted Output Power	☐ Outdoor Access Point: 1 W (30 dBm) ☐ Indoor Access Point: 1 W (30 dBm) ☐ Fixed Point-To-Point Access Points: 1 W (30 dBm) ☒ Client Devices: 250 mW (24 dBm)	5150 ~ 5250
	Shall not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.	5250 ~ 5350 5470 ~ 5725
	Shall not exceed 1 Watt (30 dBm).	5725 ~ 5850

ISED RSS-247 ISSUE 4		
Test Item	Limit	Frequency Range (MHz)
Conducted Output Power or e.i.r.p.	The maximum e.i.r.p. shall not exceed 200 mW (23 dBm) or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99 % emission bandwidth in megahertz.	5150 ~ 5250
	a. The maximum conducted output power shall not exceed 250 mW (24 dBm) or $11 + 10 \log_{10} B$ dBm, whichever is less. b. The maximum e.i.r.p. shall not exceed 1.0 W (30 dBm) or $17 + 10 \log_{10} B$ dBm, whichever is less. B is the 99 % emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.	5250 ~ 5350 5470 ~ 5725
	Shall not exceed 1 Watt (30 dBm). The e.i.r.p. shall not exceed 4 W	5725 ~ 5850

Note:

The above limits are based upon the maximum antenna gain does not exceed 6 dBi.
If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.E.

Method SA-2 (trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction):

- (i) Measure the duty cycle, x, of the transmitter output signal as described in II.B.
- (ii) Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (iii) Set RBW = 1 MHz.
- (iv) Set VBW $\geq$ 3 MHz.

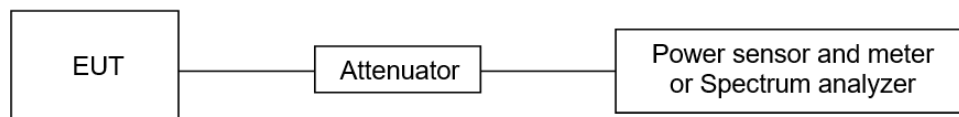
- (v) Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
- (vi) Sweep time = auto.
- (vii) Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
- (viii) Do not use sweep triggering. Allow the sweep to “free run.”
- (ix) Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
- (x) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument’s band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (xi) Add $10 \log (1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add $10 \log (1/0.25) = 6$ dB if the duty cycle is 25%.

Method PM (Measurement using an RF average power meter):

- (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
- The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
 - At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
 - The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- (ii) If the transmitter does not transmit continuously, measure the duty cycle, x , of the transmitter output signal as described in II.B.
- (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
- (iv) Adjust the measurement in dBm by adding $10 \log (1/x)$ where x is the duty cycle (e.g., $10 \log (1/0.25)$ if the duty cycle is 25%).

Note: Method SA-2 was used for straddle channel output power test, and Method PM was used for testing rest channels.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.6°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to Appendix C

7.4. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	☐ Outdoor Access Point: 17 dBm/MHz ☐ Indoor Access Point: 17 dBm/MHz ☐ Fixed Point-To-Point Access Points: 17 dBm/MHz ☒ Client Devices: 11 dBm/MHz	5150 ~ 5250
	11 dBm/MHz	5250 ~ 5350 5470 ~ 5725
	30 dBm/500kHz	5725 ~ 5850

ISED RSS-247 ISSUE 4		
Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.	5150 ~ 5250
	The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.	5250 ~ 5350 5470 ~ 5725
	30 dBm / 500 kHz	5725 ~ 5850

Note:

The above limits are based upon the maximum antenna gain does not exceed 6 dBi.

If transmitting antennas of directional gain greater than 6 dBi are used, maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.F.

Connect the EUT to the spectrum analyzer and use the following settings:

For U-NII-1, U-NII-2A and U-NII-2C band:

Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	1 MHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

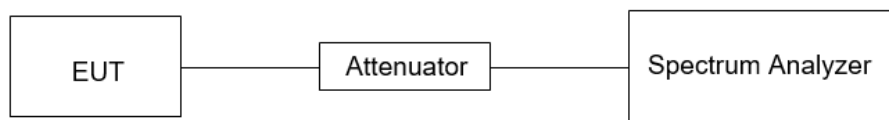
For U-NII-3:

Center Frequency	The center frequency of the channel under test
Detector	RMS
RBW	500 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

Allow trace to fully stabilize and use the peak search function on the instrument to find the peak of the spectrum and record its value.

Add $10 \log (1/x)$, where x is the duty cycle, to the peak of the spectrum, the result is the Maximum PSD over 1 MHz / 500 kHz reference bandwidth.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.6°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to Appendix C

7.5. FREQUENCY STABILITY

LIMITS

The frequency of the carrier signal shall be maintained within band of operation.

TEST PROCEDURE

1. The EUT was placed inside an environmental chamber as the temperature in the chamber was varied between 5 °C ~ 35 °C (declared by customer).
2. The temperature was incremented by 10 °C intervals and the unit allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded.
3. The primary supply voltage is varied from 85 % to 115 % of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

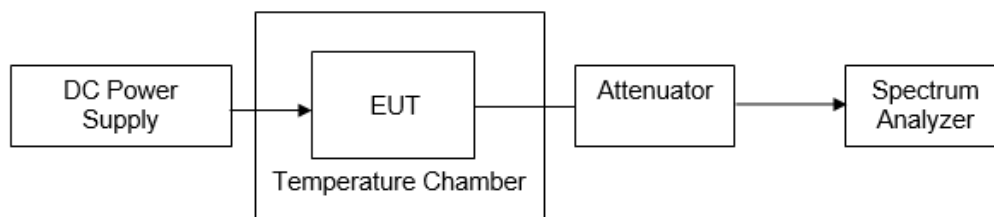
Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	10 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

4. While maintaining a constant temperature inside the environmental chamber, turn the EUT on and record the operating frequency at startup, and at 2 minutes, 5minutes, and 10 minutes after the EUT is energized.

5. Allow the trace to stabilize, find the peak value of the power envelope and record the frequency, then calculated the frequency drift.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.6°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to Appendix C

7.6. DYNAMIC FREQUENCY SELECTION (SLAVE)

LIMITS

(1) DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

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

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.
 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.
 Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

(2) DFS Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.
 Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.
 Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

APPLICABILITY OF DFS REQUIREMENTS

A U-NII network will employ a DFS function to detect signals from radar systems and to avoid co-channel operation with these systems. This applies to the 5250-5350 MHz and/or 5470-5725 MHz bands.

Within the context of the operation of the DFS function, a U-NII device will operate in either Master Mode or Client Mode. U-NII devices operating in Client Mode can only operate in a network controlled by a U-NII device operating in Master Mode.

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	☐ Master	☒ Client Without Radar Detection	☐ Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	☐ Master Device or Client with Radar Detection	☒ Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	☐ Master Device or Client with Radar Detection	☒ Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

PARAMETERS OF RADAR TEST WAVEFORMS

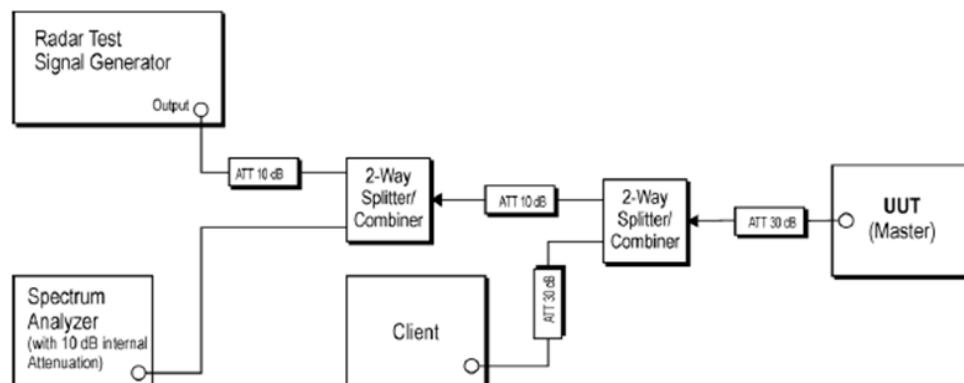
This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

Table 5 Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A	Roundup $\left\{ \frac{1}{360} \right\}$	60%	30
		Test B			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests. Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A					

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B. Test aggregate is average of the percentage of successful detections of short pulse radar types 1-4.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.6°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to Appendix D

7.7. DYNAMIC FREQUENCY SELECTION (MASTER)

LIMITS

(3) DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

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

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.
 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.
 Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

(4) DFS Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.
 Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.
 Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

APPLICABILITY OF DFS REQUIREMENTS

A U-NII network will employ a DFS function to detect signals from radar systems and to avoid co-channel operation with these systems. This applies to the 5250-5350 MHz and/or 5470-5725 MHz bands.

Within the context of the operation of the DFS function, a U-NII device will operate in either Master Mode or Client Mode. U-NII devices operating in Client Mode can only operate in a network controlled by a U-NII device operating in Master Mode.

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	☒ Master	☐ Client Without Radar Detection	☐ Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	☒ Master Device or Client with Radar Detection	☐ Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	☒ Master Device or Client with Radar Detection	☐ Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

PARAMETERS OF RADAR TEST WAVEFORMS

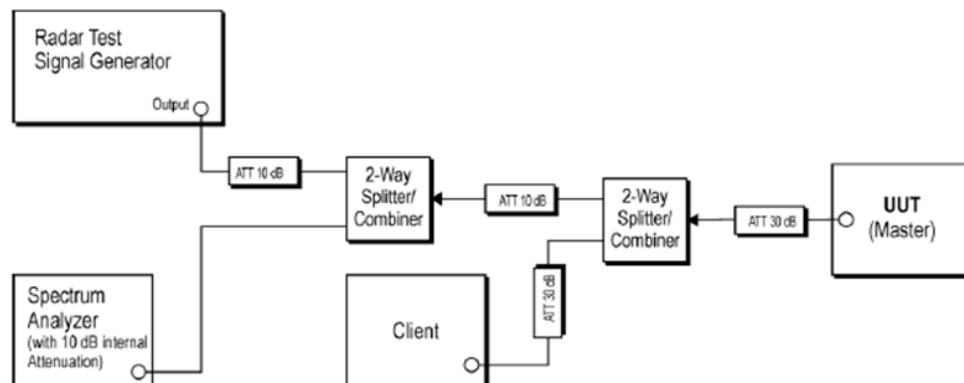
This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

Table 5 Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A	Roundup $\left\{ \frac{1}{360} \right\}$	60%	30
		Test B			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests. Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A					

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B. Test aggregate is average of the percentage of successful detections of short pulse radar types 1-4.

TEST SETUP



TEST ENVIRONMENT

Temperature	°C	Relative Humidity	%
Atmosphere Pressure	kPa		

TEST RESULTS

N/A

8. RADIATED TEST RESULTS

LIMITS

Refer to CFR 47 FCC §15.205, §15.209 and §15.407 (b).

Refer to ISED RSS-GEN Clause 8.9, Clause 8.10 and ISED RSS-247 7.3.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m	
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
		74	54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz		
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30

ISED General field strength limits at frequencies below 30 MHz

Table 6 – General field strength limits at frequencies below 30 MHz		
Frequency	Magnetic field strength (H-Field) (μA/m)	Measurement distance (m)
9 - 490 kHz ^{Note 1}	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

ISED Restricted bands refer to ISED RSS-GEN Clause 8.10

MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 - 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 - 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 - 138		

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

FCC Restricted bands of operation refer to FCC §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6c

Limits of unwanted/undesirable emission out of the restricted bands refer to CFR 47 FCC §15.407 (b) and ISSED RSS-247 7.3.

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1GHz)		
Frequency Range (MHz)	EIRP Limit	Field Strength Limit (dBuV/m) at 3 m
5150~5250 MHz	PK: -27 (dBm/MHz)	PK:68.2(dBμV/m)
5250~5350 MHz		
5470~5725 MHz		
5725~5850 MHz	PK: -27 (dBm/MHz) *1 PK: 10 (dBm/MHz) *2 PK: 15.6 (dBm/MHz) *3 PK: 27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK: 105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK: 122.2 (dBμV/m) *4
Note: *1 beyond 75 MHz or more above of the band edge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyzer

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

1. The testing follows the guidelines in ANSI C63.10-2020 clause 6.4.
2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.
6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made

to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.

8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to $Y-51.5 = Z$ dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

The setting of the spectrum analyzer

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2020 clause 6.5.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

Above 1 GHz

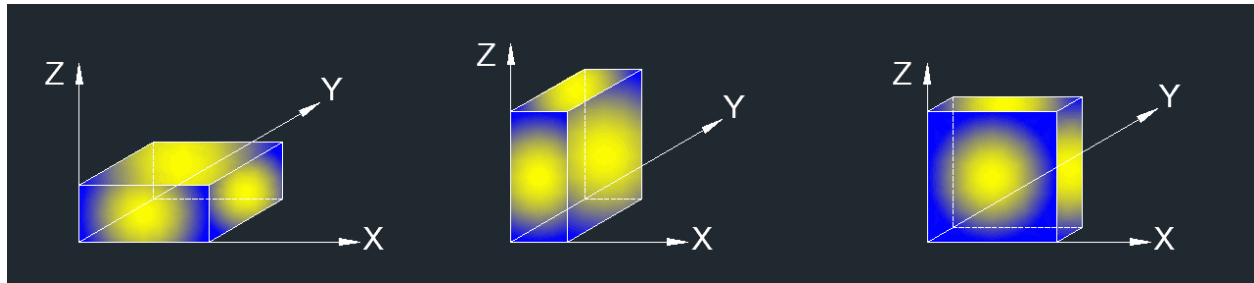
The setting of the spectrum analyzer

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.G.3 ~ II.G.6.

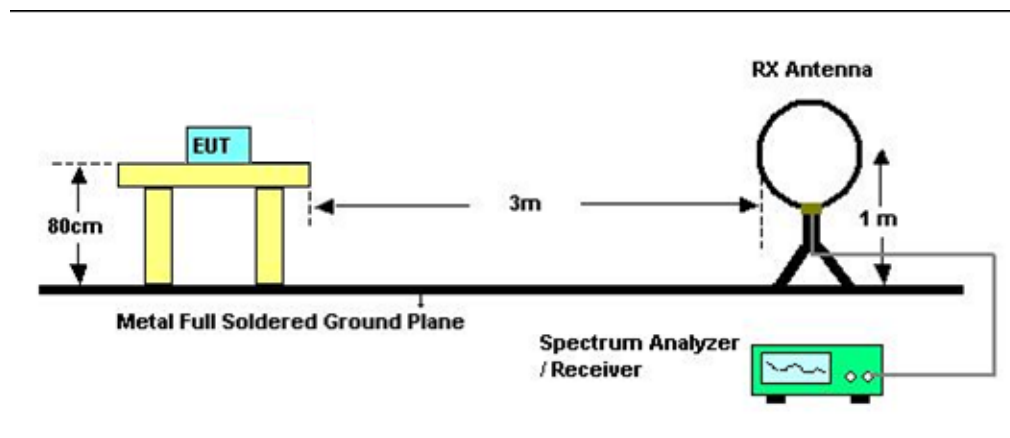
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 1.5 m above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.1.ON TIME AND DUTY CYCLE.

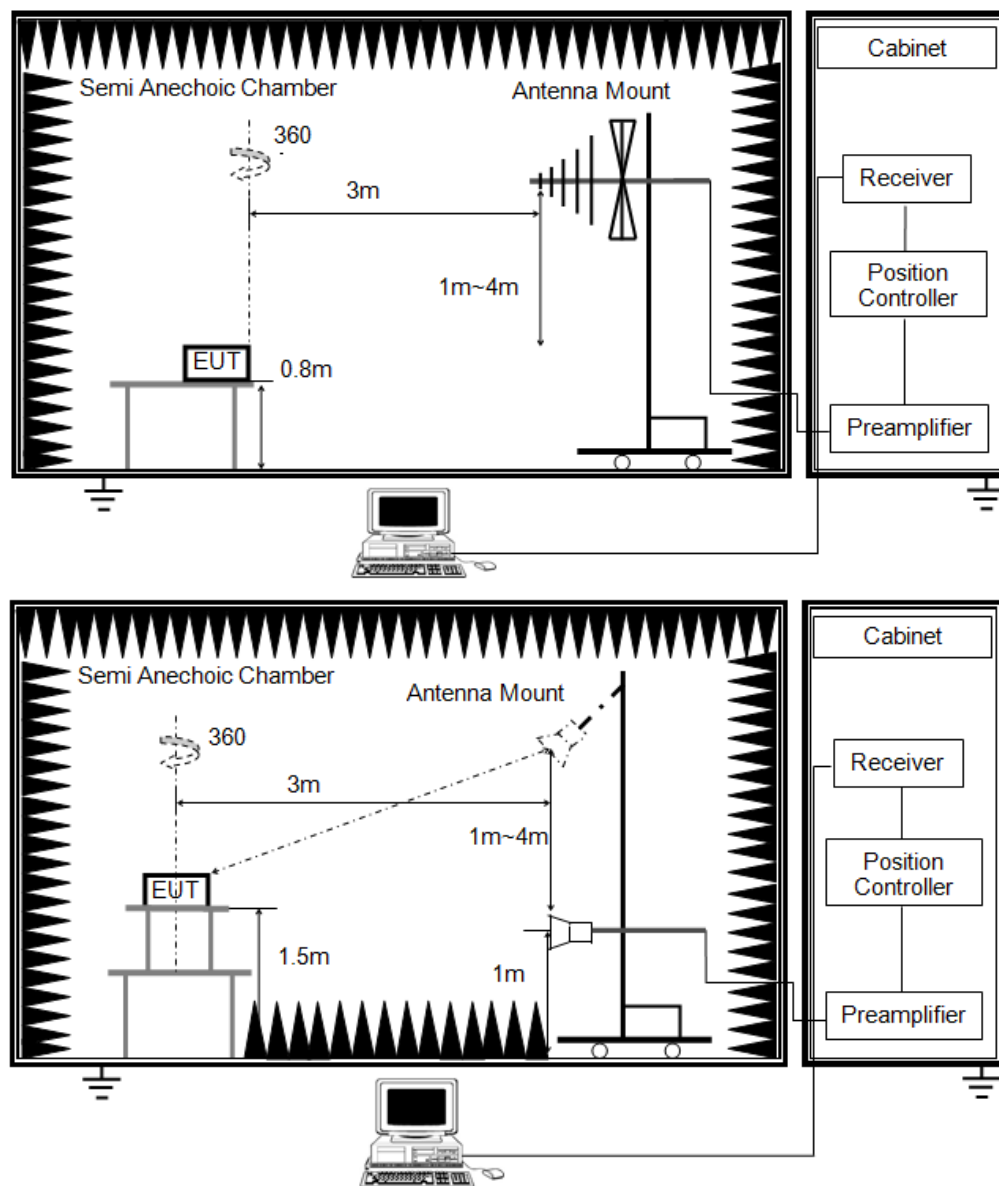
X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

TEST SETUP





TEST ENVIRONMENT

Temperature	22.3°C	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

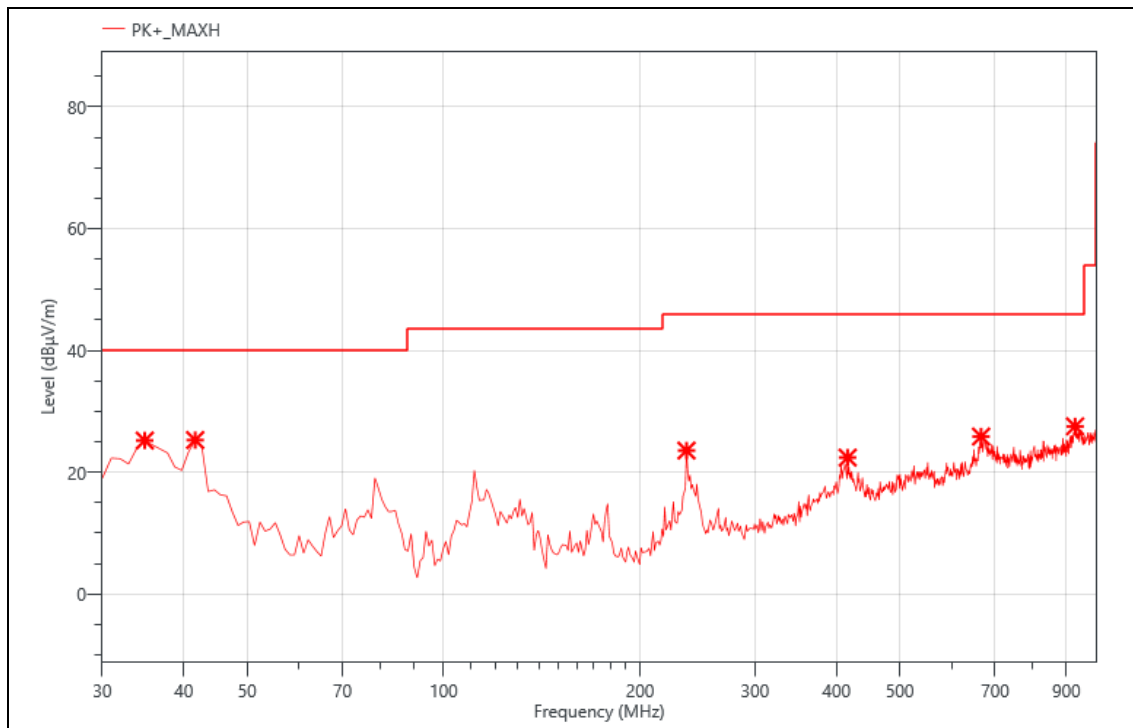
8.1. RADIATED EMISSIONS AND BAND EDGE MEASUREMENT

Undesirable radiated Spurious Emission below 1GHz (9kHz to 1GHz)

All modes have been tested and the worst result as bellow:

Creality Falcon T1

Mode:	A-5180
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/04/10
T/A/P	22.1°C/51%/101Kpa

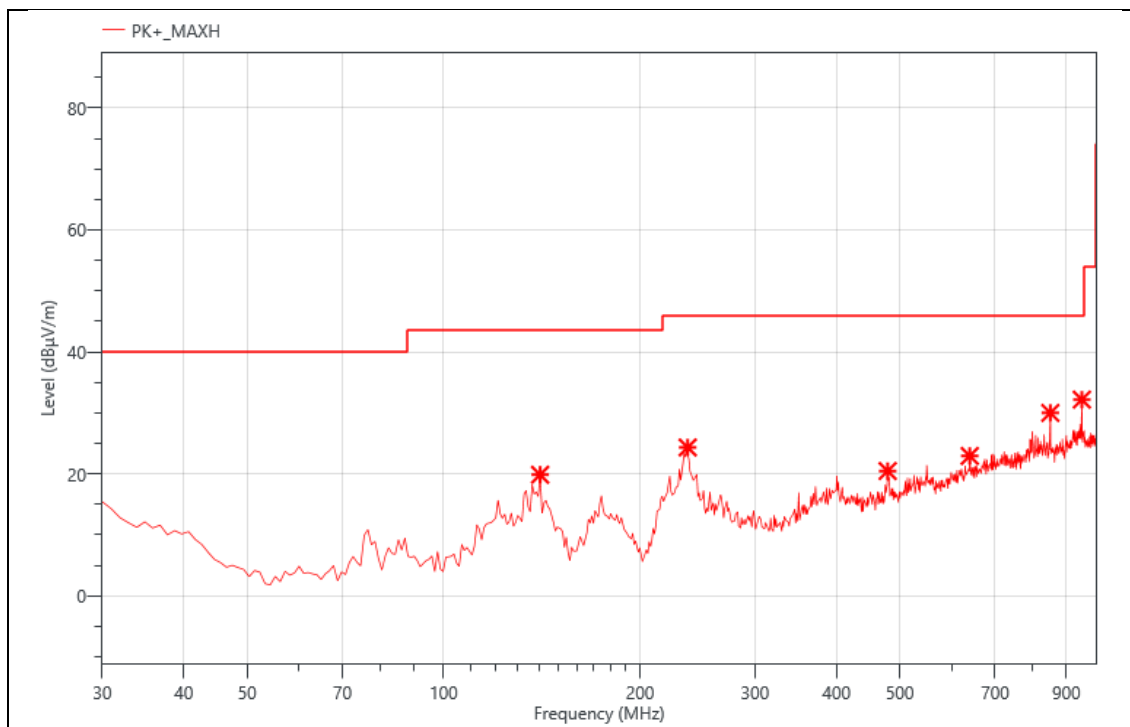


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	34.850	42.38	-17.18	25.20	40.00	14.80	PK+	V
2	41.640	46.23	-20.95	25.28	40.00	14.72	PK+	V
3	235.640	43.02	-19.47	23.55	46.00	22.45	PK+	V
4	416.060	35.92	-13.52	22.40	46.00	23.60	PK+	V
5	666.320	33.46	-7.6	25.86	46.00	20.14	PK+	V
6	928.220	29.73	-2.2	27.53	46.00	18.47	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	A-5180
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/04/10
T/A/P	22.1°C/51%/101Kpa



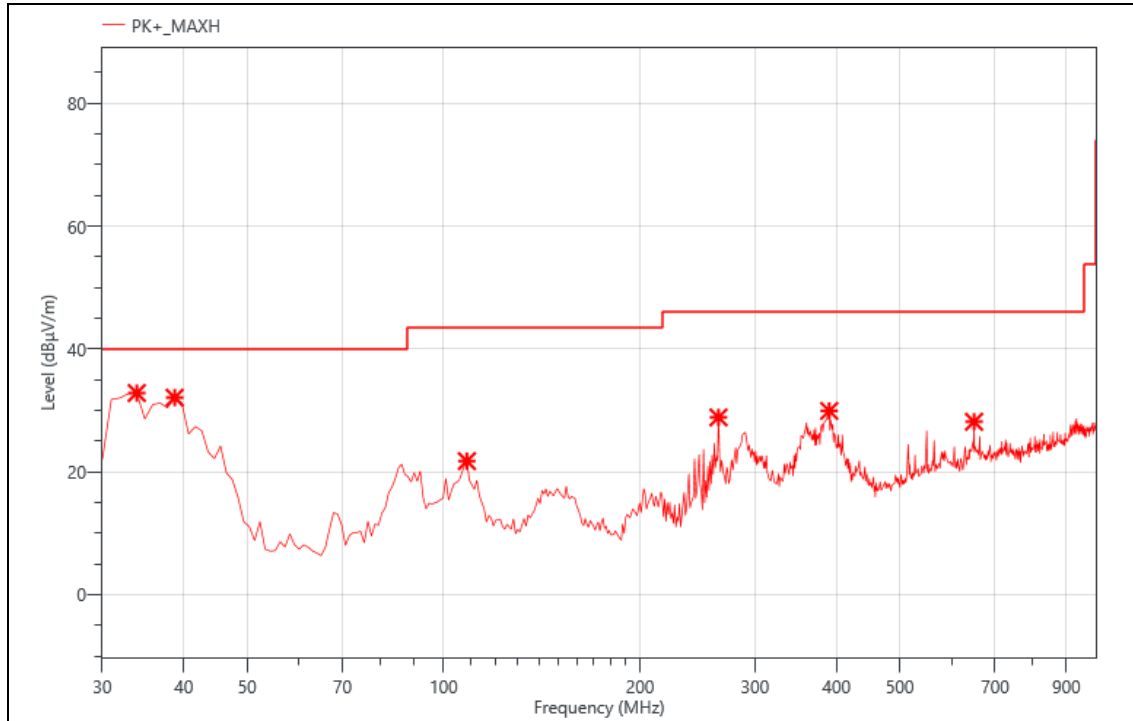
Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	140.580	43.07	-23.22	19.85	43.50	23.65	PK+	H
2	236.610	43.73	-19.4	24.33	46.00	21.67	PK+	H
3	479.110	33.19	-12.73	20.46	46.00	25.54	PK+	H
4	640.130	31.34	-8.41	22.93	46.00	23.07	PK+	H
5	850.620	35.06	-5.07	29.99	46.00	16.01	PK+	H
6	950.530	34.57	-2.4	32.17	46.00	13.83	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Creality Falcon T1 Fiber 20W

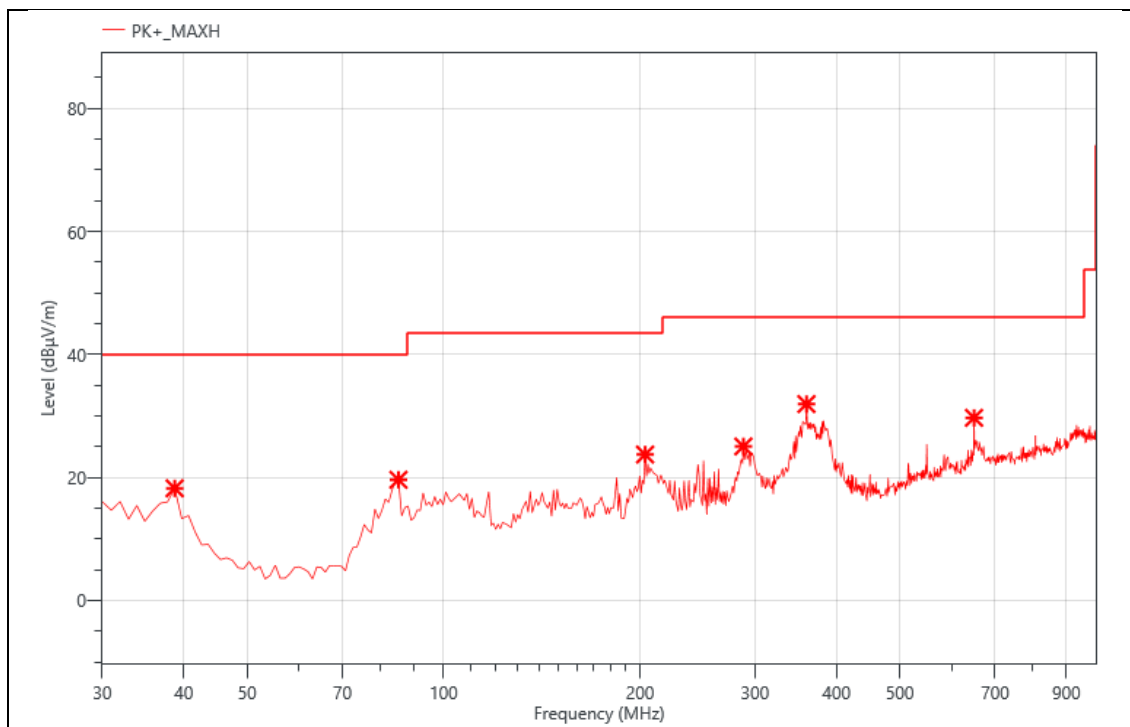
Mode:	A-5180
Power:	AC 120V/60Hz
TE:	Luffy
Date	2026/06/30
T/A/P	22.1°C/52%/101Kpa

**Critical_Freqs**

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	33.880	49.46	-16.63	32.83	40.00	7.17	PK+	V
2	38.730	51.45	-19.38	32.07	40.00	7.93	PK+	V
3	108.570	45.62	-23.88	21.74	43.50	21.76	PK+	V
4	263.770	47.00	-18.14	28.86	46.00	17.14	PK+	V
5	389.870	43.93	-14.01	29.92	46.00	16.08	PK+	V
6	649.830	36.17	-8.02	28.15	46.00	17.85	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	A-5180
Power:	AC 120V/60Hz
TE:	Luffy
Date	2026/06/30
T/A/P	22.1°C/52%/101Kpa



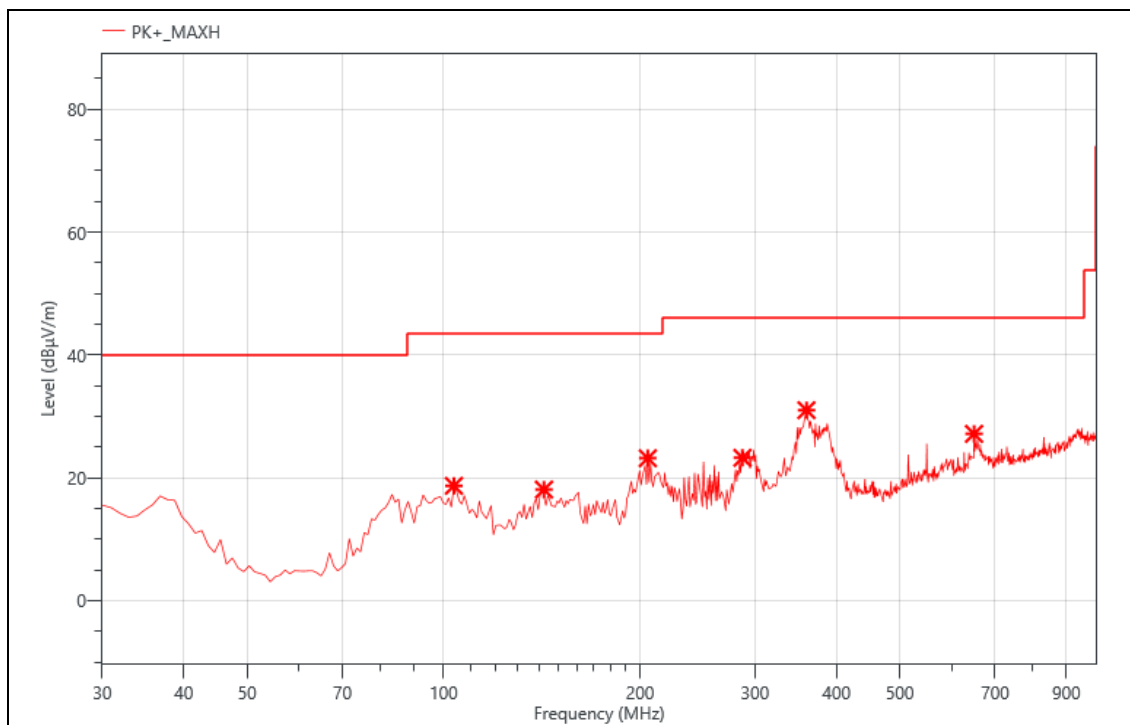
Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	38.730	37.61	-19.38	18.23	40.00	21.77	PK+	H
2	85.290	44.99	-25.37	19.62	40.00	20.38	PK+	H
3	203.630	45.55	-21.82	23.73	43.50	19.77	PK+	H
4	288.020	44.44	-19.4	25.04	46.00	20.96	PK+	H
5	359.800	47.64	-15.7	31.94	46.00	14.06	PK+	H
6	649.830	37.71	-8.02	29.69	46.00	16.31	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Creality Falcon T1 Diode 40W

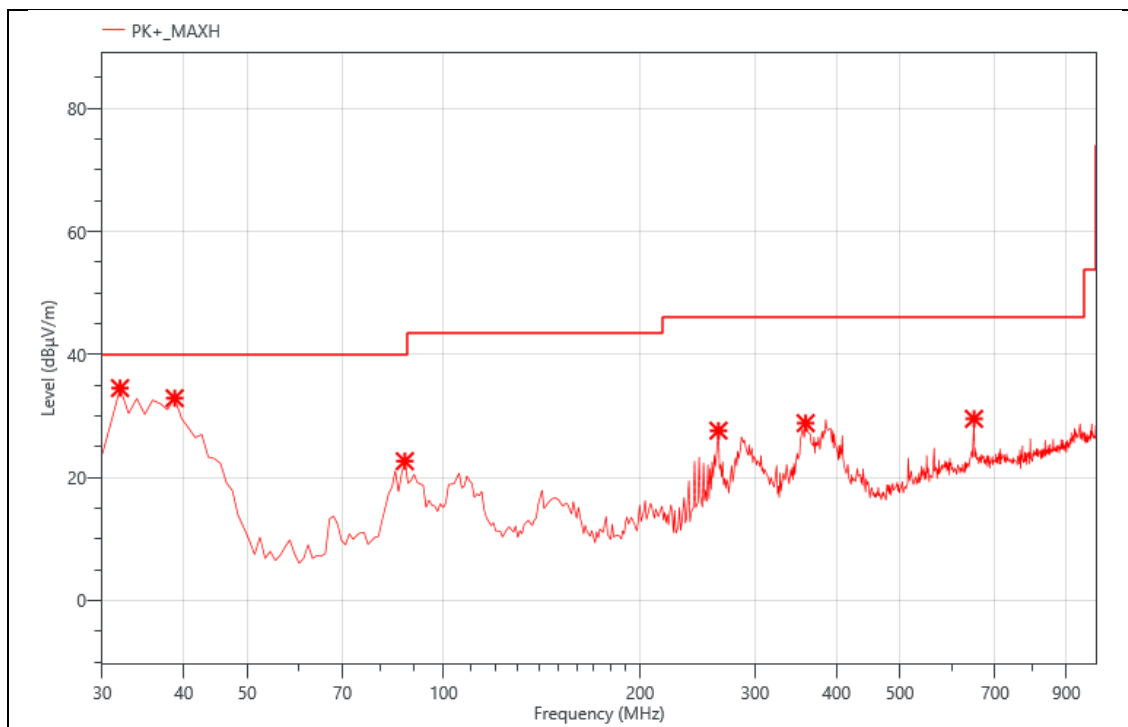
Mode:	A-5180
Power:	AC 120V/60Hz
TE:	Luffy
Date	2026/06/30
T/A/P	22.1°C/52%/101Kpa

**Critical_Freqs**

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	103.720	42.45	-23.76	18.69	43.50	24.81	PK+	H
2	142.520	41.18	-23.1	18.08	43.50	25.42	PK+	H
3	205.570	44.83	-21.64	23.19	43.50	20.31	PK+	H
4	287.050	42.72	-19.47	23.25	46.00	22.75	PK+	H
5	359.800	46.71	-15.7	31.01	46.00	14.99	PK+	H
6	649.830	35.17	-8.02	27.15	46.00	18.85	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	A-5180
Power:	AC 120V/60Hz
TE:	Luffy
Date	2026/06/30
T/A/P	22.1°C/52%/101Kpa



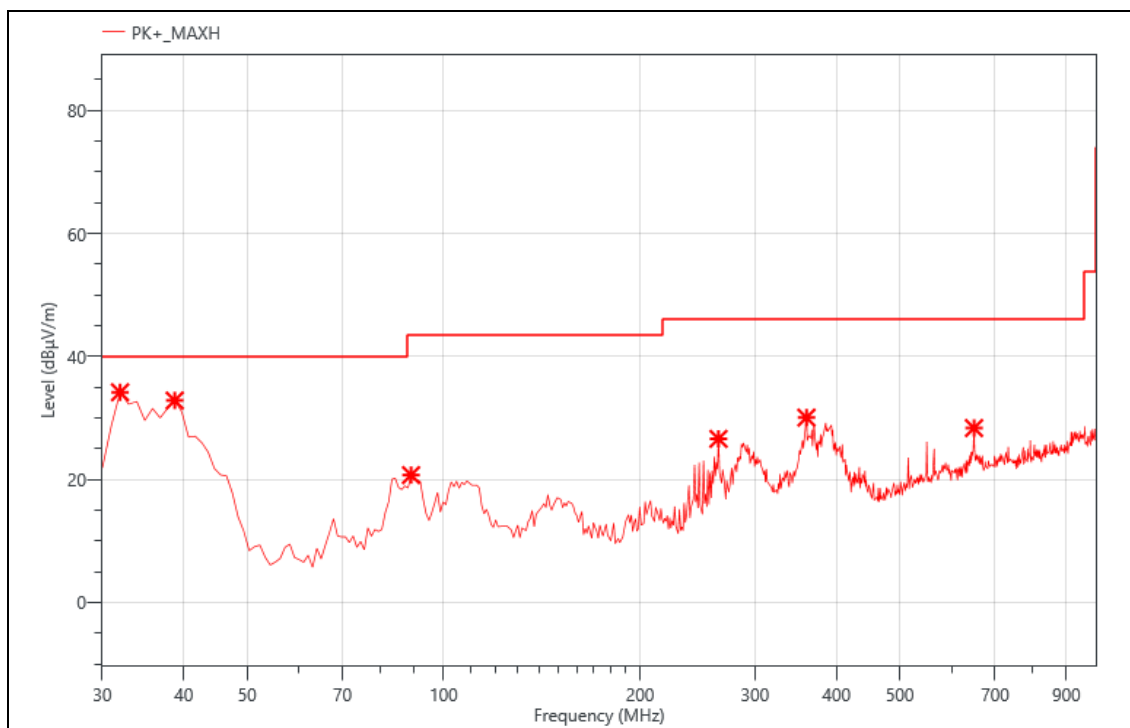
Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	31.940	49.97	-15.44	34.53	40.00	5.47	PK+	V
2	38.730	52.27	-19.38	32.89	40.00	7.11	PK+	V
3	87.230	47.97	-25.33	22.64	40.00	17.36	PK+	V
4	263.770	45.75	-18.14	27.61	46.00	18.39	PK+	V
5	358.830	44.58	-15.75	28.83	46.00	17.17	PK+	V
6	649.830	37.55	-8.02	29.53	46.00	16.47	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Creality Falcon T1 Diode 20W

Mode:	A-5180
Power:	AC 120V/60Hz
TE:	Luffy
Date	2026/06/30
T/A/P	22.1°C/52%/101Kpa

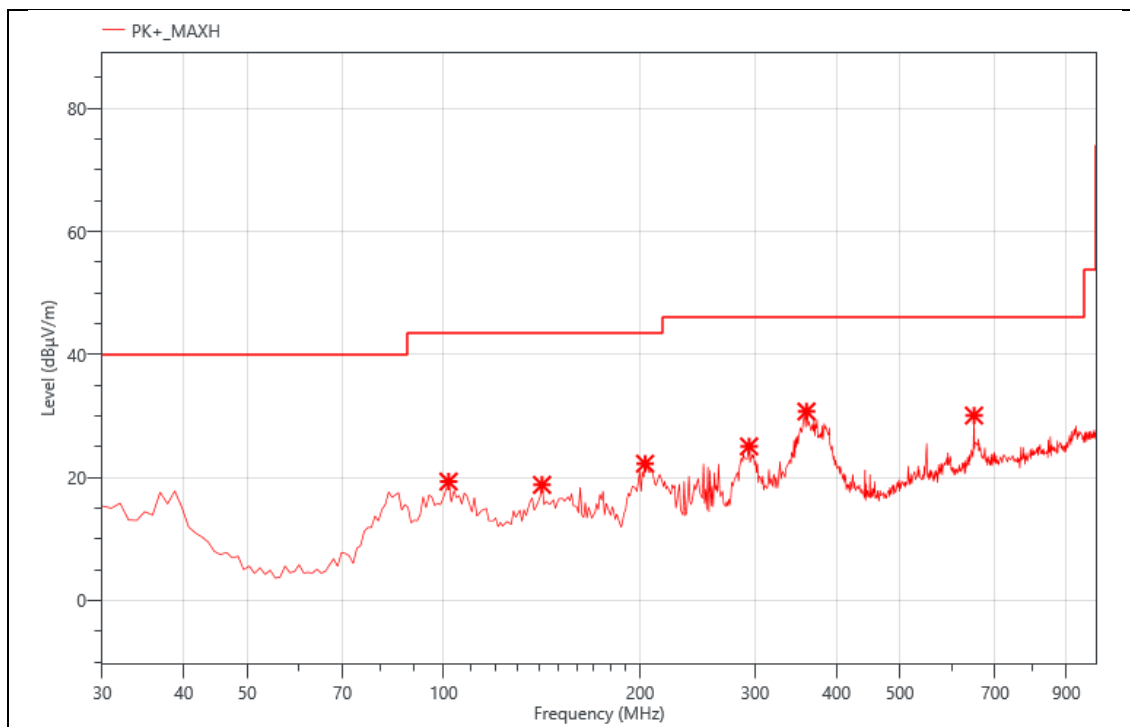


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	31.940	49.62	-15.44	34.18	40.00	5.82	PK+	V
2	38.730	52.22	-19.38	32.84	40.00	7.16	PK+	V
3	89.170	45.98	-25.27	20.71	43.50	22.79	PK+	V
4	263.770	44.74	-18.14	26.60	46.00	19.40	PK+	V
5	359.800	45.76	-15.7	30.06	46.00	15.94	PK+	V
6	649.830	36.38	-8.02	28.36	46.00	17.64	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	A-5180
Power:	AC 120V/60Hz
TE:	Luffy
Date	2026/06/30
T/A/P	22.1°C/52%/101Kpa



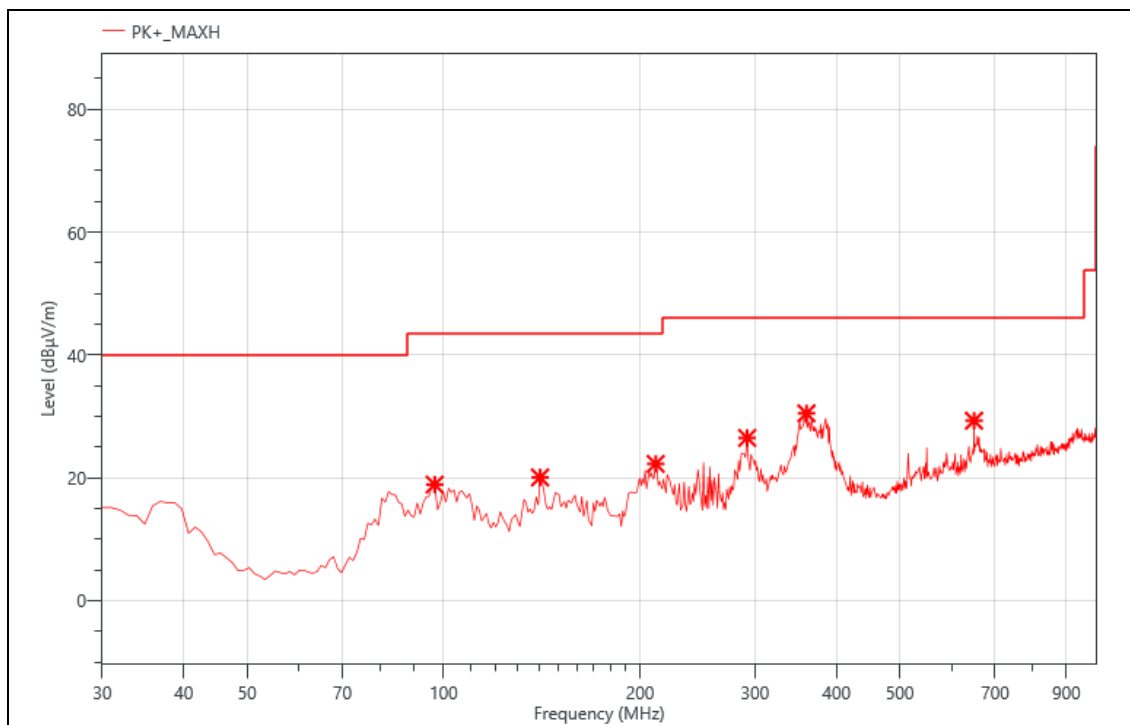
Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	101.780	43.19	-23.86	19.33	43.50	24.17	PK+	H
2	141.550	41.93	-23.14	18.79	43.50	24.71	PK+	H
3	203.630	44.06	-21.82	22.24	43.50	21.26	PK+	H
4	293.840	44.11	-19.06	25.05	46.00	20.95	PK+	H
5	359.800	46.43	-15.7	30.73	46.00	15.27	PK+	H
6	649.830	38.09	-8.02	30.07	46.00	15.93	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Creality Falcon T1 UV 5W

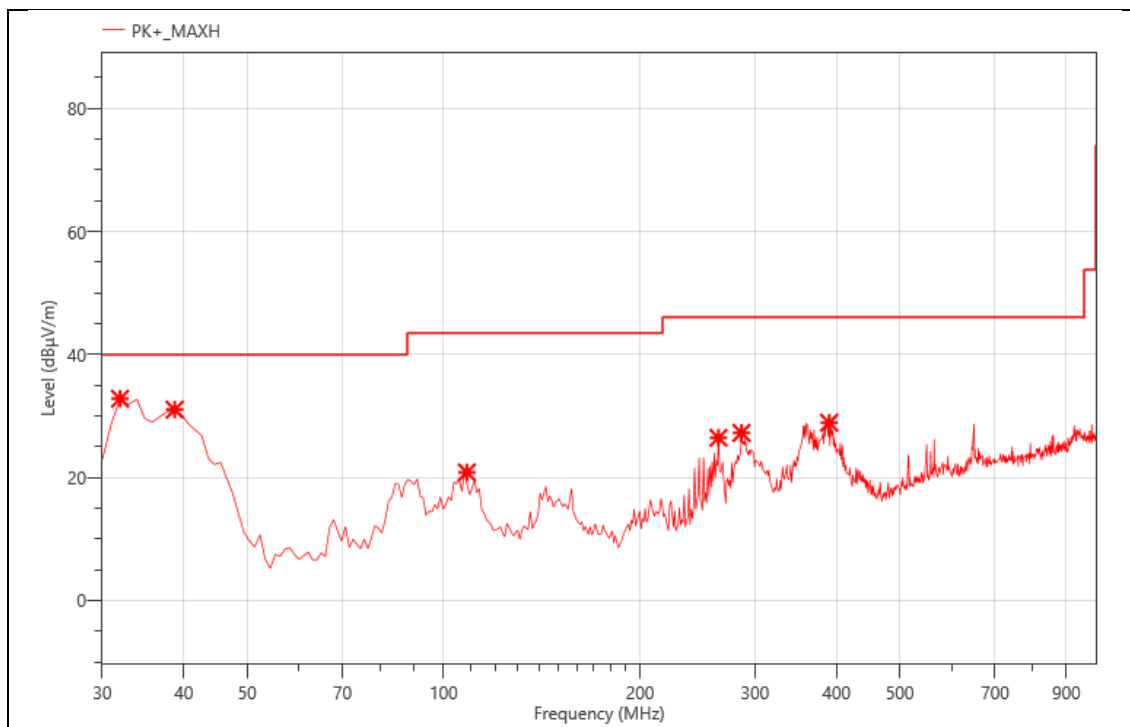
Mode:	A-5180
Power:	AC 120V/60Hz
TE:	Luffy
Date	2026/06/30
T/A/P	22.1°C/52%/101Kpa

**Critical_Freqs**

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	96.930	43.33	-24.43	18.90	43.50	24.60	PK+	H
2	140.580	43.28	-23.22	20.06	43.50	23.44	PK+	H
3	211.390	43.38	-21.11	22.27	43.50	21.23	PK+	H
4	291.900	45.67	-19.18	26.49	46.00	19.51	PK+	H
5	359.800	46.20	-15.7	30.50	46.00	15.50	PK+	H
6	649.830	37.32	-8.02	29.30	46.00	16.70	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	A-5180
Power:	AC 120V/60Hz
TE:	Luffy
Date	2026/06/30
T/A/P	22.1°C/52%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	31.940	48.25	-15.44	32.81	40.00	7.19	PK+	V
2	38.730	50.41	-19.38	31.03	40.00	8.97	PK+	V
3	108.570	44.71	-23.88	20.83	43.50	22.67	PK+	V
4	263.770	44.59	-18.14	26.45	46.00	19.55	PK+	V
5	286.080	46.76	-19.51	27.25	46.00	18.75	PK+	V
6	389.870	42.91	-14.01	28.90	46.00	17.10	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

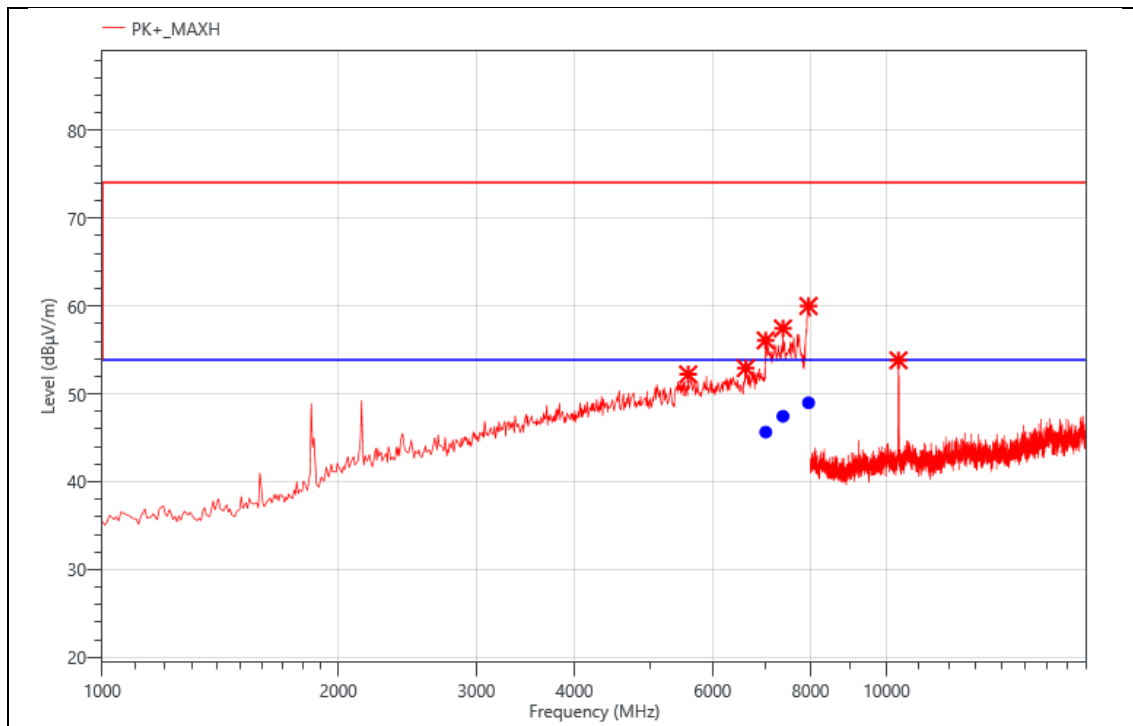
Note:

1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Peak: Peak detector.
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)

All modes have been tested and the worst result as bellow:

Mode:	A-5180
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/04/10
T/A/P	22.1°C/51%/101Kpa



Critical_Freqs

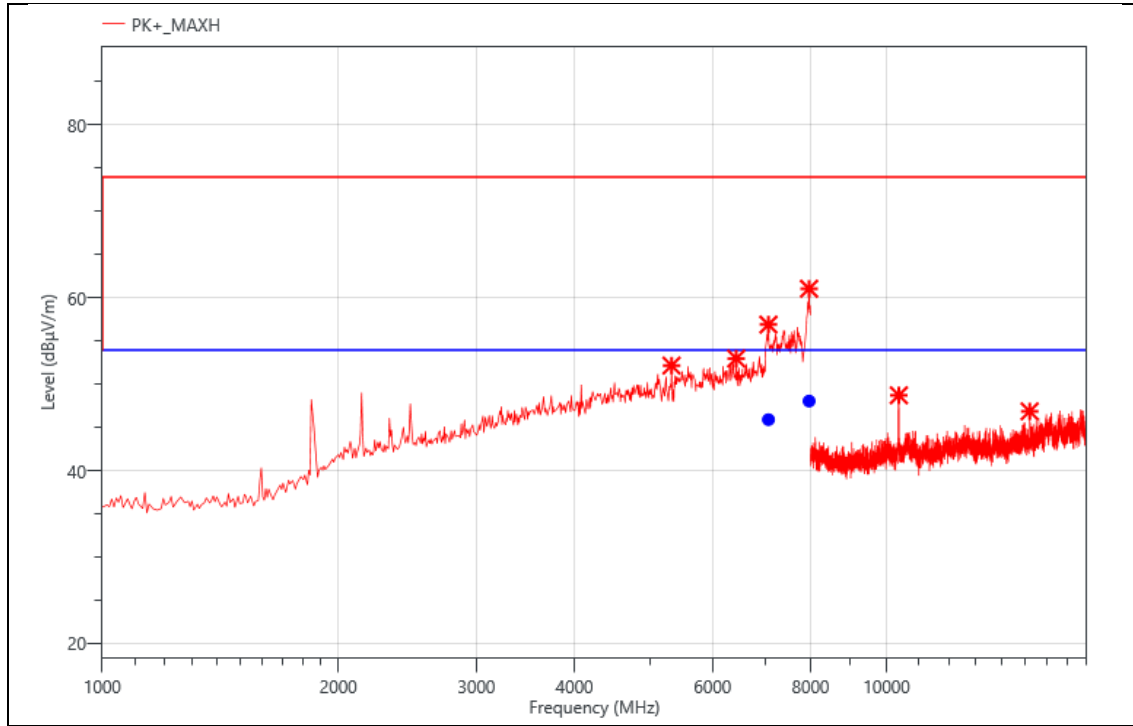
No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	5585.000	52.87	-0.65	52.22	74.00	21.78	PK+	V
2	6614.000	46.40	6.53	52.93	74.00	21.07	PK+	V
3	7013.000	47.27	8.82	56.09	74.00	17.91	PK+	V
4	7377.000	46.18	11.27	57.45	74.00	16.55	PK+	V
5	7951.000	42.43	17.57	60.00	74.00	14.00	PK+	V
6	10357.000	59.51	-5.69	53.82	74.00	20.18	PK+	V

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	7013.000	36.83	8.82	45.65	53.90	8.25	AVG	V	PASS
2	7377.000	36.18	11.27	47.45	53.90	6.45	AVG	V	PASS
3	7951.000	31.41	17.57	48.98	53.90	4.92	AVG	V	PASS

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	A-5180
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/04/10
T/A/P	22.1°C/51%/101Kpa



Critical_Freqs

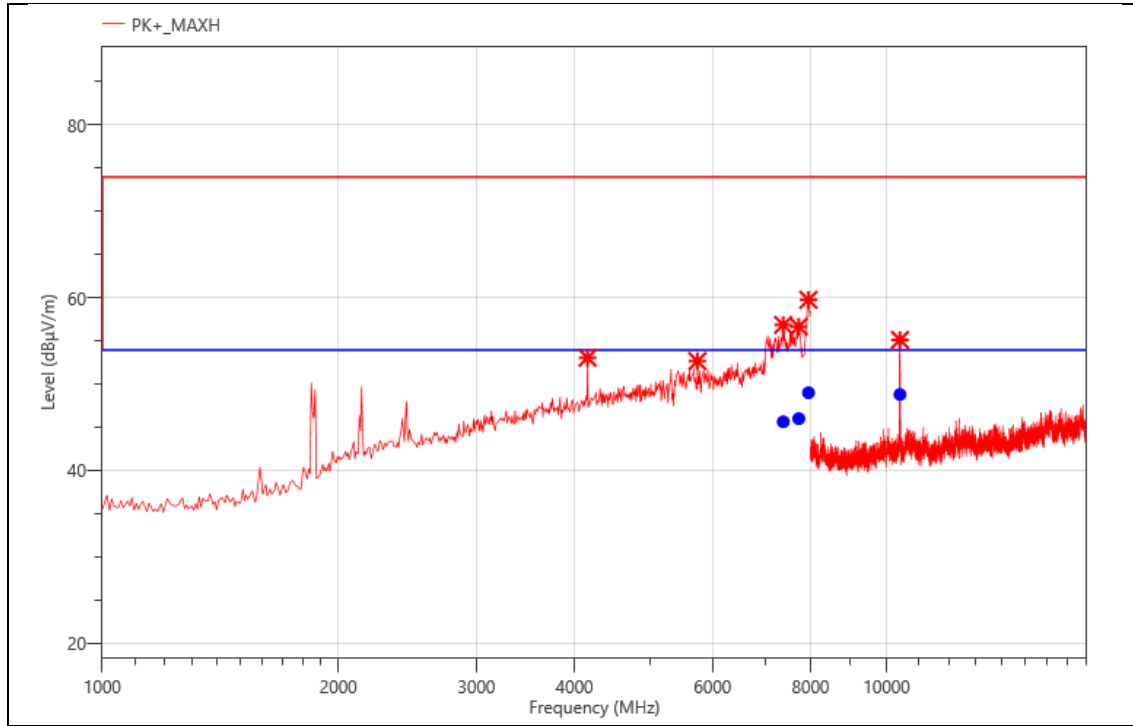
No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	5319.000	52.30	-0.14	52.16	74.00	21.84	PK+	H
2	6432.000	48.51	4.46	52.97	74.00	21.03	PK+	H
3	7069.000	46.89	10.01	56.90	74.00	17.10	PK+	H
4	7965.000	43.93	17.12	61.05	74.00	12.95	PK+	H
5	10367.000	54.34	-5.62	48.72	74.00	25.28	PK+	H
6	15223.000	49.86	-3	46.86	74.00	27.14	PK+	H

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	7069.000	35.89	10.01	45.90	53.90	8.00	AVG	H	PASS
2	7965.000	30.93	17.12	48.05	53.90	5.85	AVG	H	PASS

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	A-5200
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/04/10
T/A/P	22.1°C/51%/101Kpa



Critical_Freqs

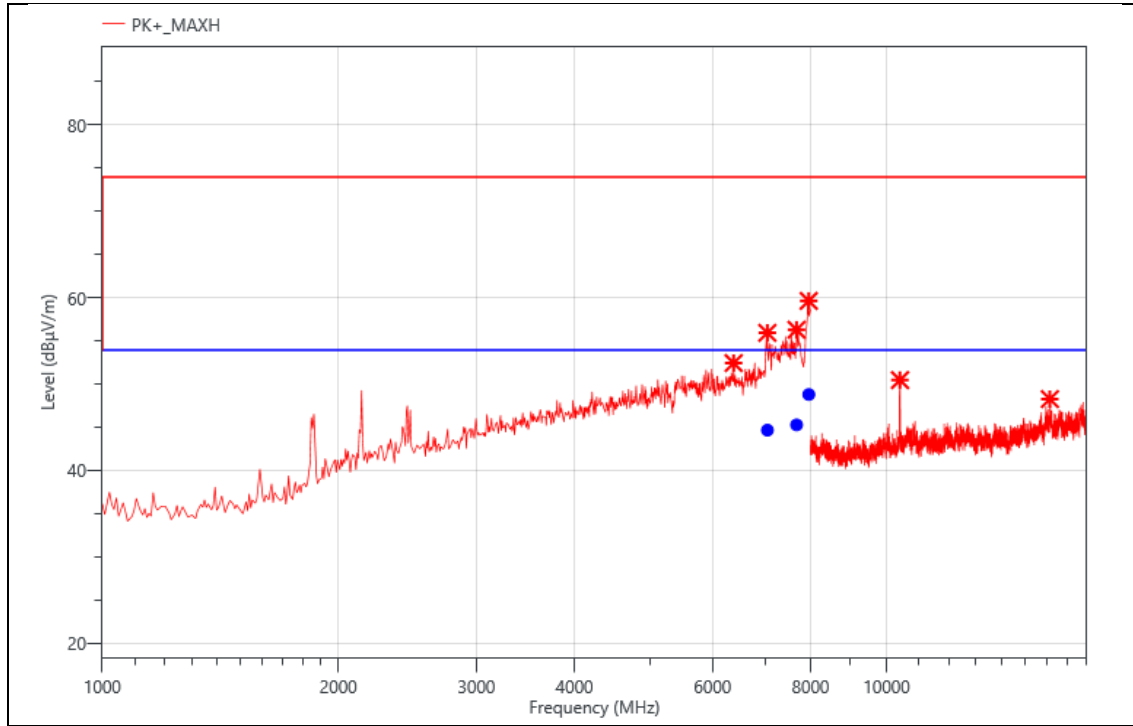
No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	4157.000	56.19	-3.16	53.03	74.00	20.97	PK+	V
2	5739.000	53.79	-1.14	52.65	74.00	21.35	PK+	V
3	7384.000	45.49	11.35	56.84	74.00	17.16	PK+	V
4	7727.000	43.83	12.81	56.64	74.00	17.36	PK+	V
5	7951.000	42.18	17.57	59.75	74.00	14.25	PK+	V
6	10402.000	60.54	-5.44	55.10	74.00	18.90	PK+	V

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	7384.000	34.27	11.35	45.62	53.90	8.28	AVG	V	PASS
2	7727.000	33.17	12.81	45.98	53.90	7.92	AVG	V	PASS
3	7951.000	31.41	17.57	48.98	53.90	4.92	AVG	V	PASS
4	10402.000	54.22	-5.44	48.78	53.90	5.12	AVG	V	PASS

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	A-5200
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/04/10
T/A/P	22.1°C/51%/101Kpa



Critical_Freqs

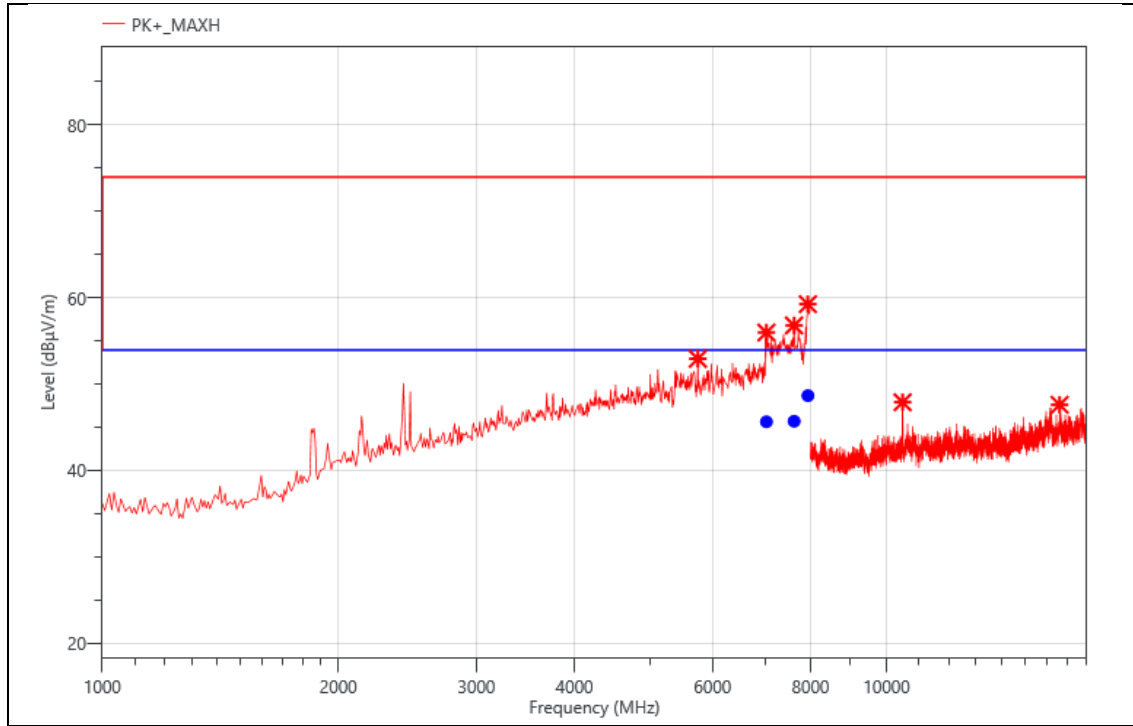
No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	6383.000	48.26	4.16	52.42	74.00	21.58	PK+	H
2	7048.000	45.47	10.45	55.92	74.00	18.08	PK+	H
3	7678.000	45.70	10.58	56.28	74.00	17.72	PK+	H
4	7958.000	42.28	17.34	59.62	74.00	14.38	PK+	H
5	10402.000	55.89	-5.44	50.45	74.00	23.55	PK+	H
6	16152.000	48.51	-0.26	48.25	74.00	25.75	PK+	H

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	7048.000	34.20	10.45	44.65	53.90	9.25	AVG	H	PASS
2	7678.000	34.68	10.58	45.26	53.90	8.64	AVG	H	PASS
3	7958.000	31.44	17.34	48.78	53.90	5.12	AVG	H	PASS

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	A-5240
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/04/10
T/A/P	22.1°C/51%/101Kpa



Critical_Freqs

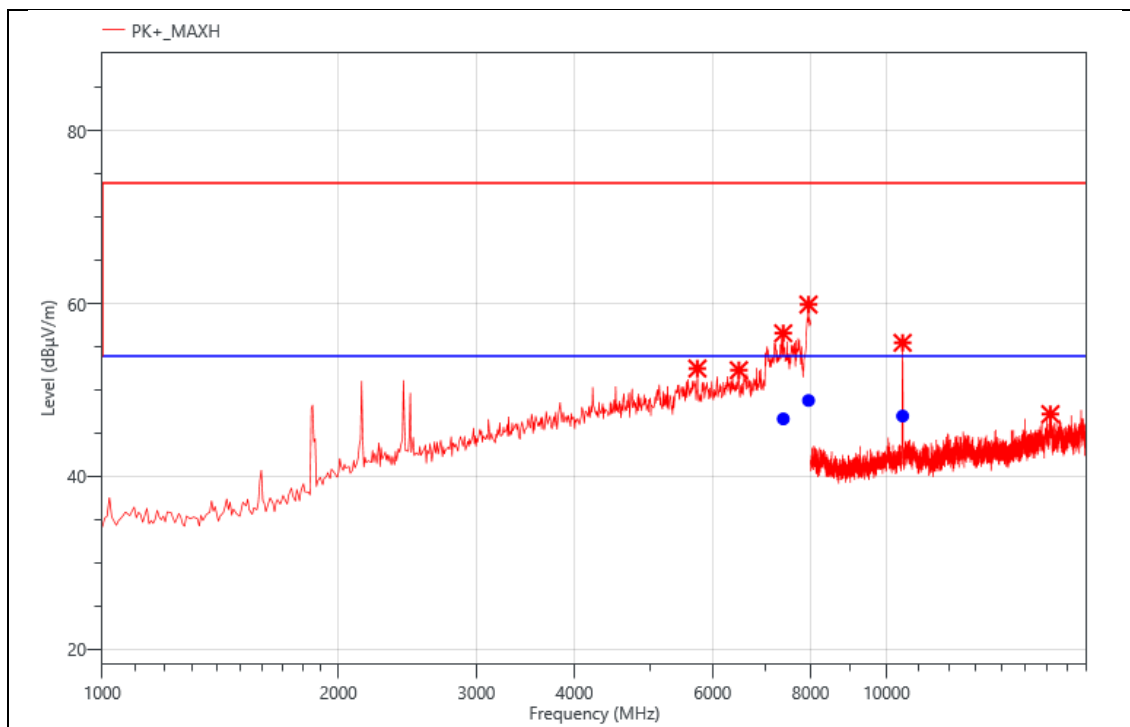
No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	5746.000	53.98	-1.07	52.91	74.00	21.09	PK+	H
2	7027.000	46.54	9.42	55.96	74.00	18.04	PK+	H
3	7622.000	44.89	11.89	56.78	74.00	17.22	PK+	H
4	7937.000	41.90	17.34	59.24	74.00	14.76	PK+	H
5	10482.000	53.16	-5.28	47.88	74.00	26.12	PK+	H
6	16621.000	48.44	-0.85	47.59	74.00	26.41	PK+	H

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	7027.000	36.20	9.42	45.62	53.90	8.28	AVG	H	PASS
2	7622.000	33.79	11.89	45.68	53.90	8.22	AVG	H	PASS
3	7937.000	31.31	17.34	48.65	53.90	5.25	AVG	H	PASS

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	A-5240
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/04/10
T/A/P	22.1°C/51%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	5739.000	53.62	-1.14	52.48	74.00	21.52	PK+	V
2	6481.000	47.22	5.07	52.29	74.00	21.71	PK+	V
3	7384.000	45.22	11.35	56.57	74.00	17.43	PK+	V
4	7951.000	42.32	17.57	59.89	74.00	14.11	PK+	V
5	10482.000	60.74	-5.28	55.46	74.00	18.54	PK+	V
6	16177.000	47.43	-0.23	47.20	74.00	26.80	PK+	V

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	7384.000	35.30	11.35	46.65	53.90	7.25	AVG	V	PASS
2	7951.000	31.21	17.57	48.78	53.90	5.12	AVG	V	PASS
3	10482.000	52.26	-5.28	46.98	53.90	6.92	AVG	V	PASS

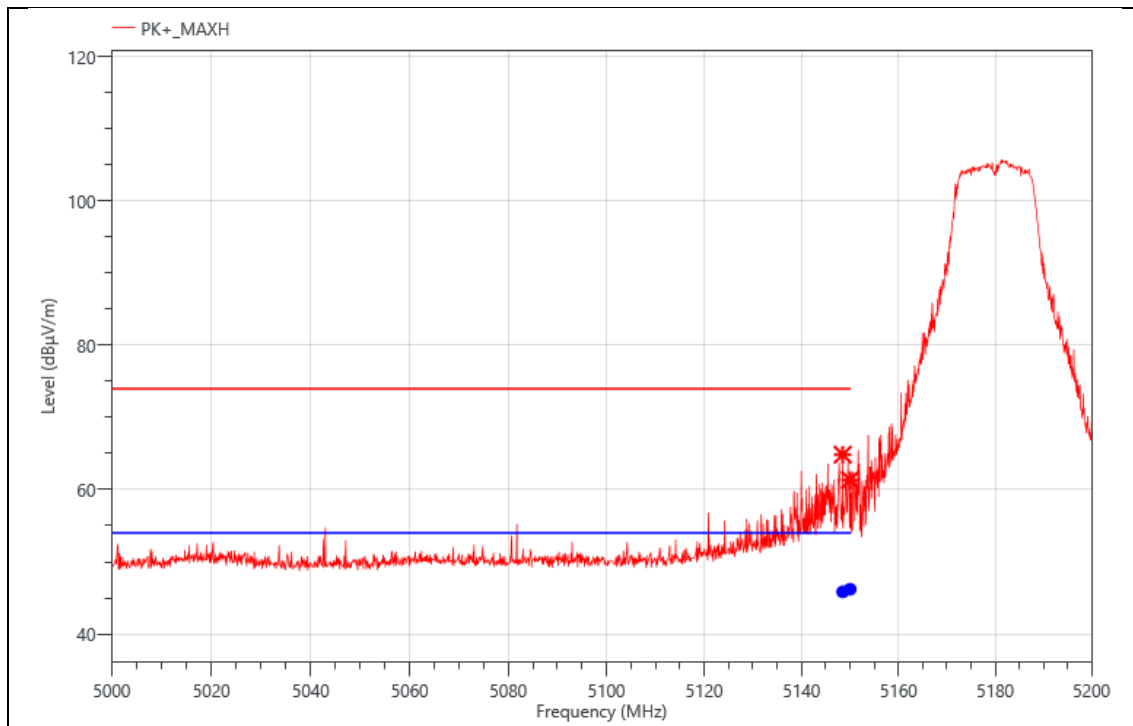
Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

For 9KHz to 30MHz and above 18 GHz, a pre-scan was performed, and the result was 20 dB lower than the limit line, the test data was not shown in the report.

Band Edge

All modes have been tested and the worst result as bellow:

Mode:	A-5180
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/04/10
T/A/P	22.1°C/51%/101Kpa



Critical_Freqs

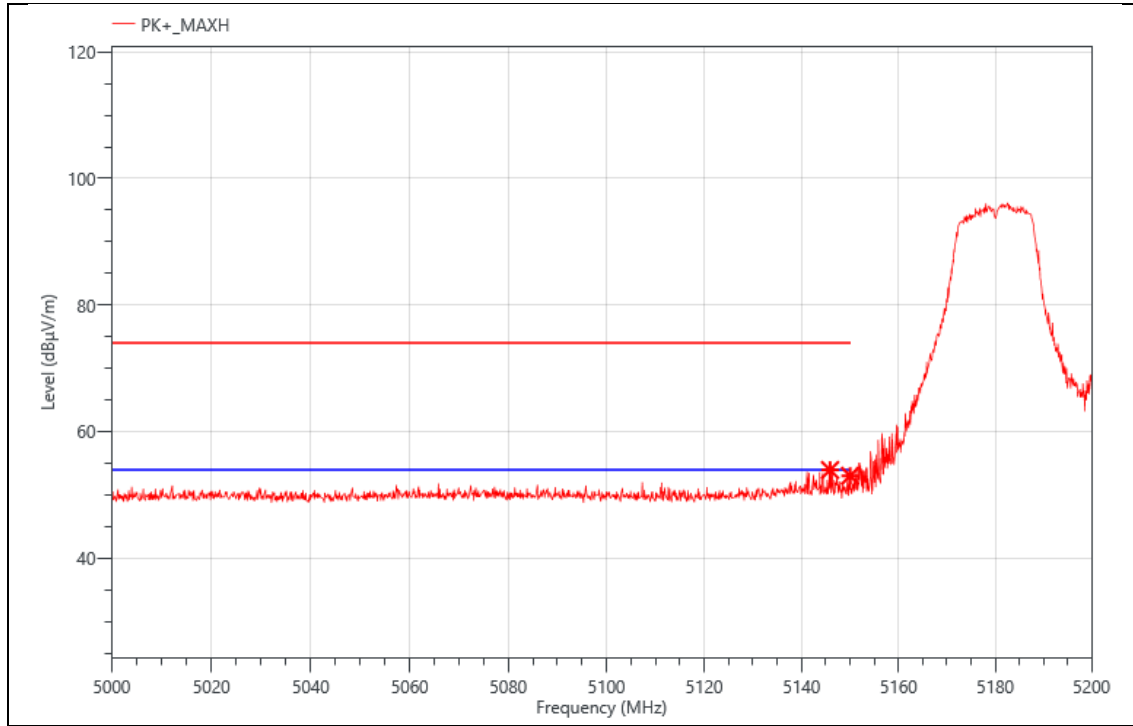
No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	5148.467	36.37	28.47	64.84	74.00	9.16	PK+	H
2	5150.000	32.88	28.45	61.33	74.00	12.67	PK+	H

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	5148.467	17.37	28.47	45.84	54.00	8.16	AVG	H	PASS
2	5150.000	17.75	28.45	46.20	54.00	7.80	AVG	H	PASS

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	A-5180
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/04/10
T/A/P	22.1°C/51%/101Kpa

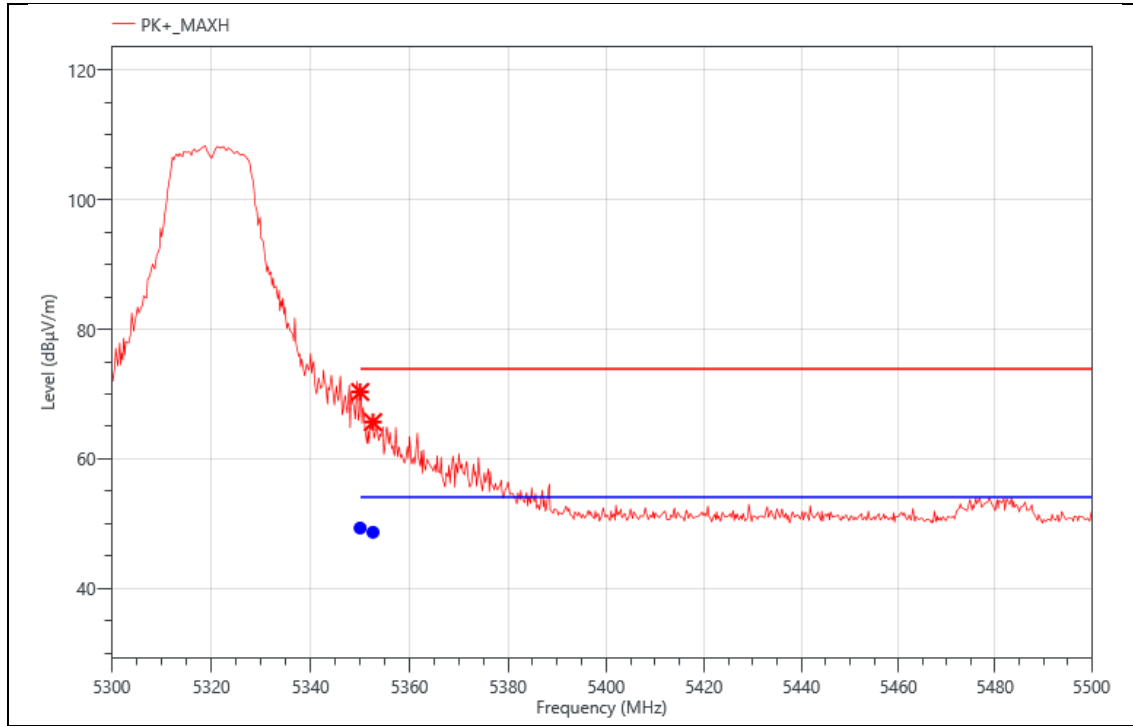


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	5145.867	25.43	28.5	53.93	74.00	20.07	PK+	V
2	5150.000	24.56	28.45	53.01	74.00	20.99	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	A-5320
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/04/10
T/A/P	22.1°C/51%/101Kpa



Critical_Freqs

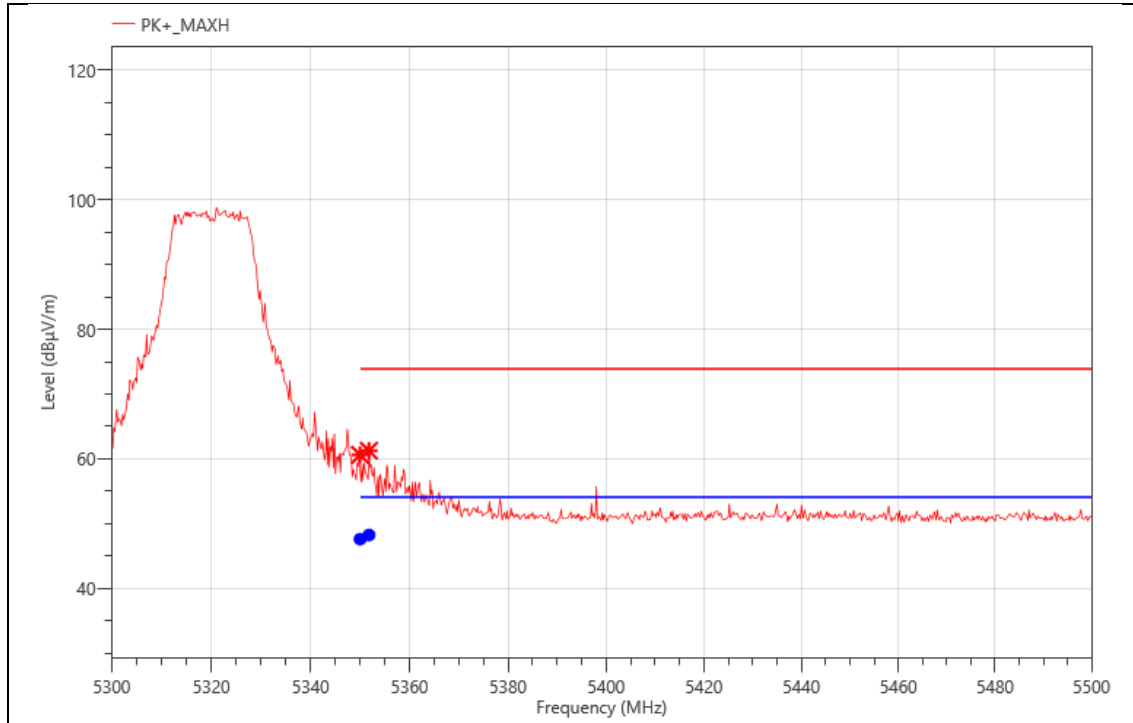
No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	5350.000	41.35	28.99	70.34	74.00	3.66	PK+	H
2	5352.600	36.64	29.05	65.69	74.00	8.31	PK+	H

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	5350.000	20.35	28.99	49.34	54.00	4.66	AVG	H	PASS
2	5352.600	19.64	29.05	48.69	54.00	5.31	AVG	H	PASS

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	A-5320
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/04/10
T/A/P	22.1°C/51%/101Kpa



Critical_Freqs

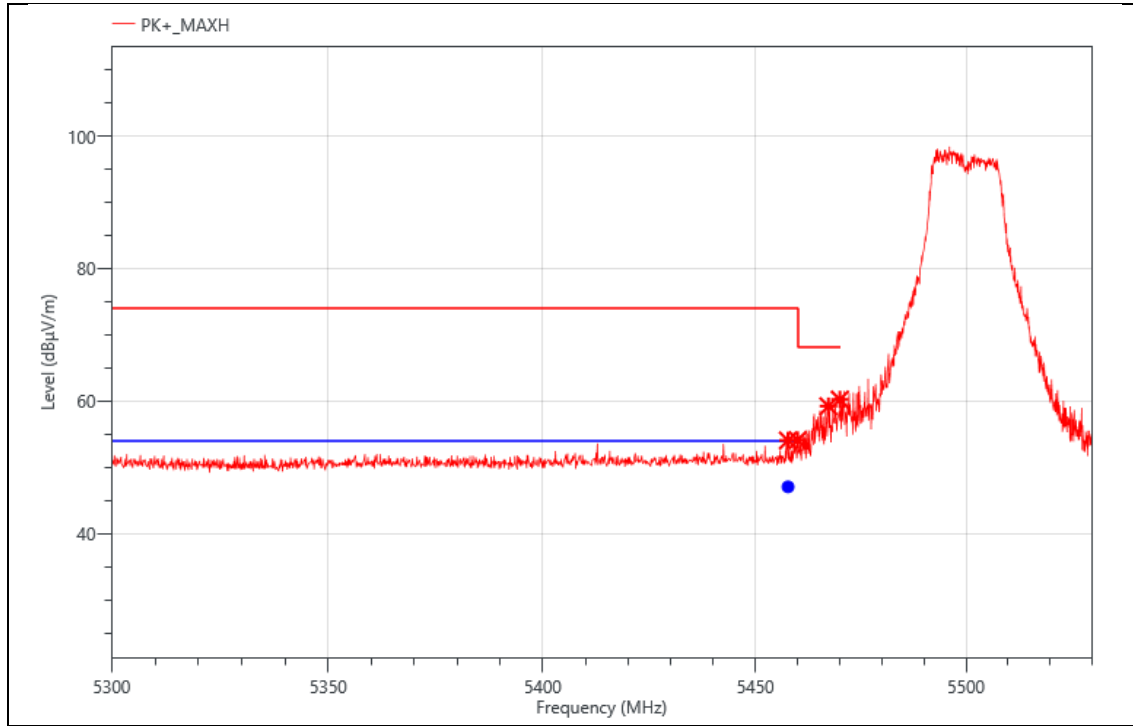
No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	5350.000	31.64	28.99	60.63	74.00	13.37	PK+	V
2	5351.800	32.24	29.03	61.27	74.00	12.73	PK+	V

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	5350.000	18.64	28.99	47.63	54.00	6.37	AVG	V	PASS
2	5351.800	19.24	29.03	48.27	54.00	5.73	AVG	V	PASS

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	A-5500
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/04/10
T/A/P	22.1°C/51%/101Kpa



Critical_Freqs

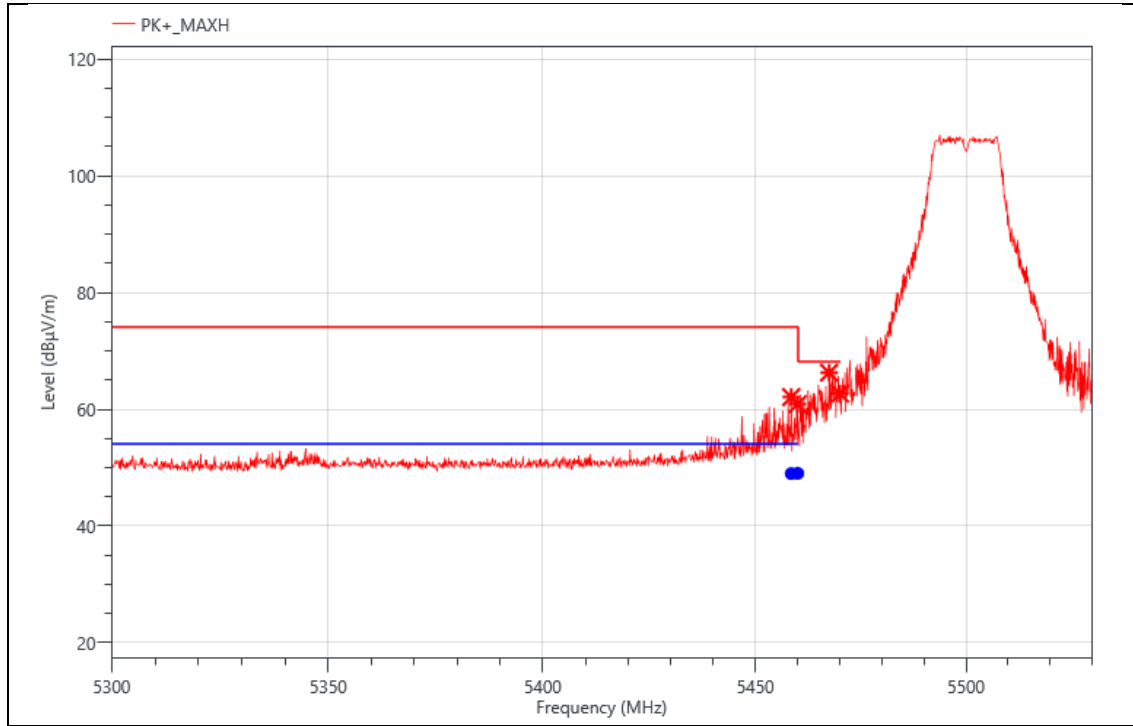
No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	5457.703	24.90	29.18	54.08	74.00	19.92	PK+	V
2	5460.000	24.99	29.14	54.13	68.20	14.07	PK+	V
3	5467.287	30.20	29.05	59.25	68.20	8.95	PK+	V
4	5470.000	31.20	29.05	60.25	68.20	7.95	PK+	V

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	5457.703	17.90	29.18	47.08	54.00	6.92	AVG	V	PASS

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	A-5500
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/04/10
T/A/P	22.1°C/51%/101Kpa



Critical_Freqs

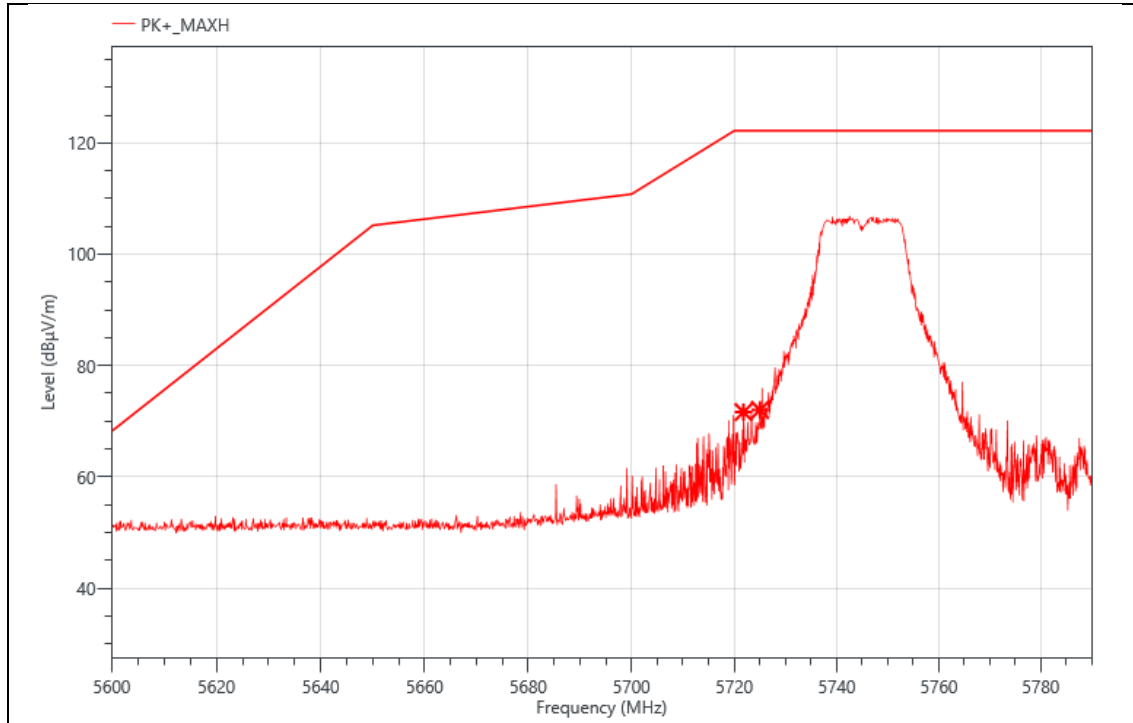
No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	5458.470	32.94	29.16	62.10	74.00	11.90	PK+	H
2	5460.000	31.74	29.14	60.88	68.20	7.32	PK+	H
3	5467.440	37.23	29.05	66.28	68.20	1.92	PK+	H
4	5470.000	33.64	29.05	62.69	68.20	5.51	PK+	H

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	5458.470	19.82	29.16	48.98	54.00	5.02	AVG	H	PASS
2	5460.000	19.88	29.14	49.02	54.00	4.98	AVG	H	PASS

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	A-5745
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/04/10
T/A/P	22.1°C/51%/101Kpa

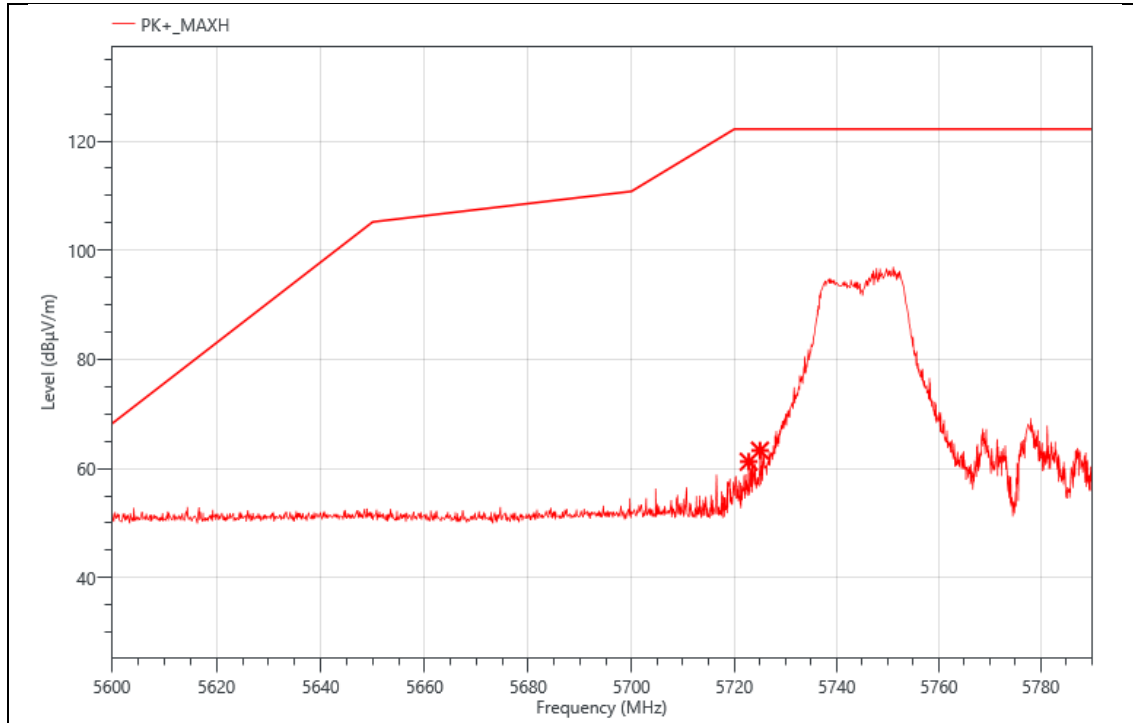


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	5721.790	42.38	29.26	71.64	122.20	50.56	PK+	H
2	5725.000	42.79	29.24	72.03	122.20	50.17	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	A-5745
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/04/10
T/A/P	22.1°C/51%/101Kpa

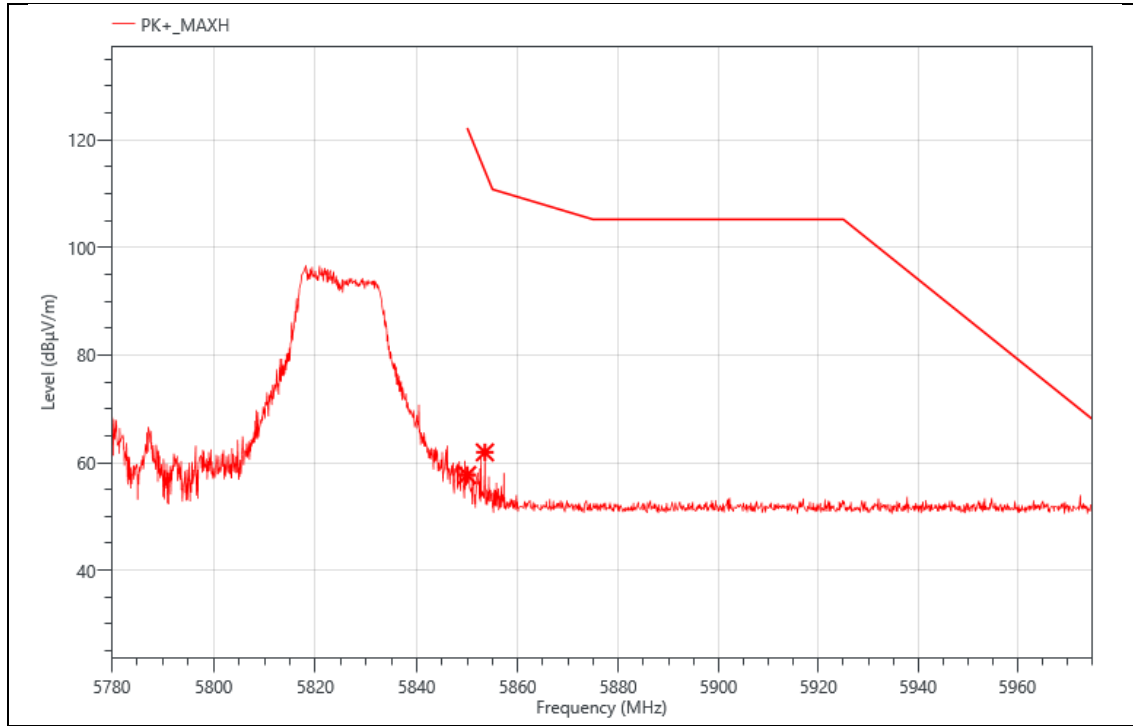


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	5722.803	31.99	29.26	61.25	122.20	60.95	PK+	V
2	5725.000	34.05	29.24	63.29	122.20	58.91	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	A-5825
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/04/10
T/A/P	22.1°C/51%/101Kpa

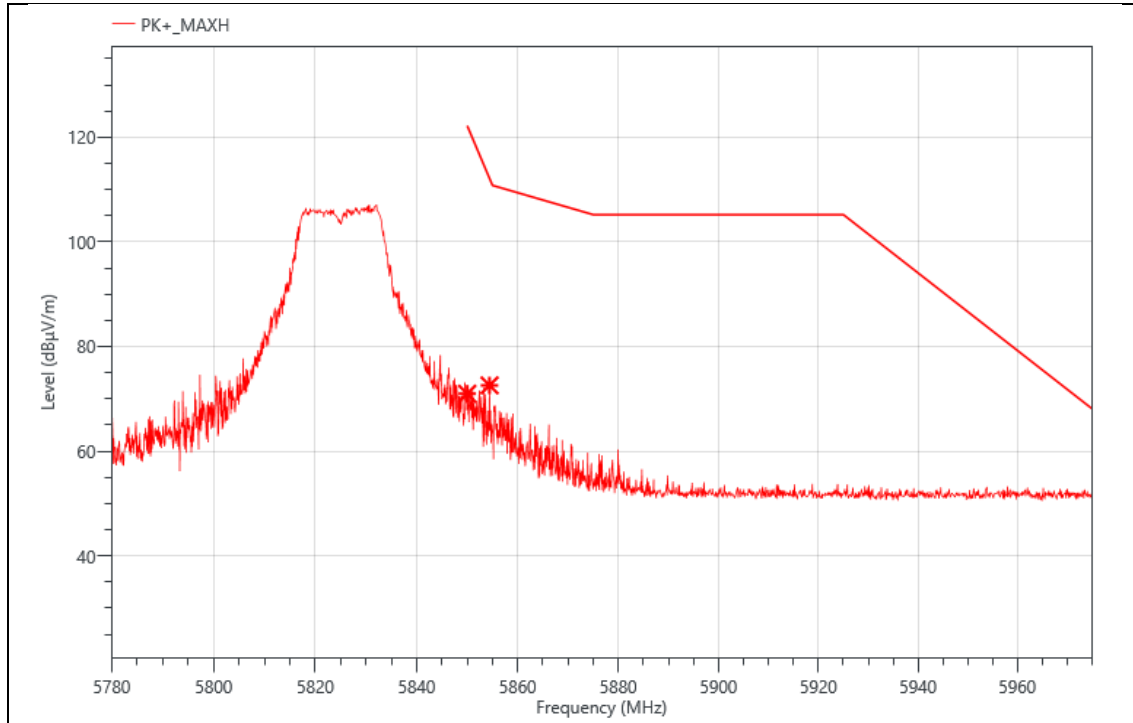


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	5850.000	28.38	29.32	57.70	122.20	64.50	PK+	V
2	5853.515	32.56	29.35	61.91	114.18	52.27	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	A-5825
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/04/10
T/A/P	22.1°C/51%/101Kpa

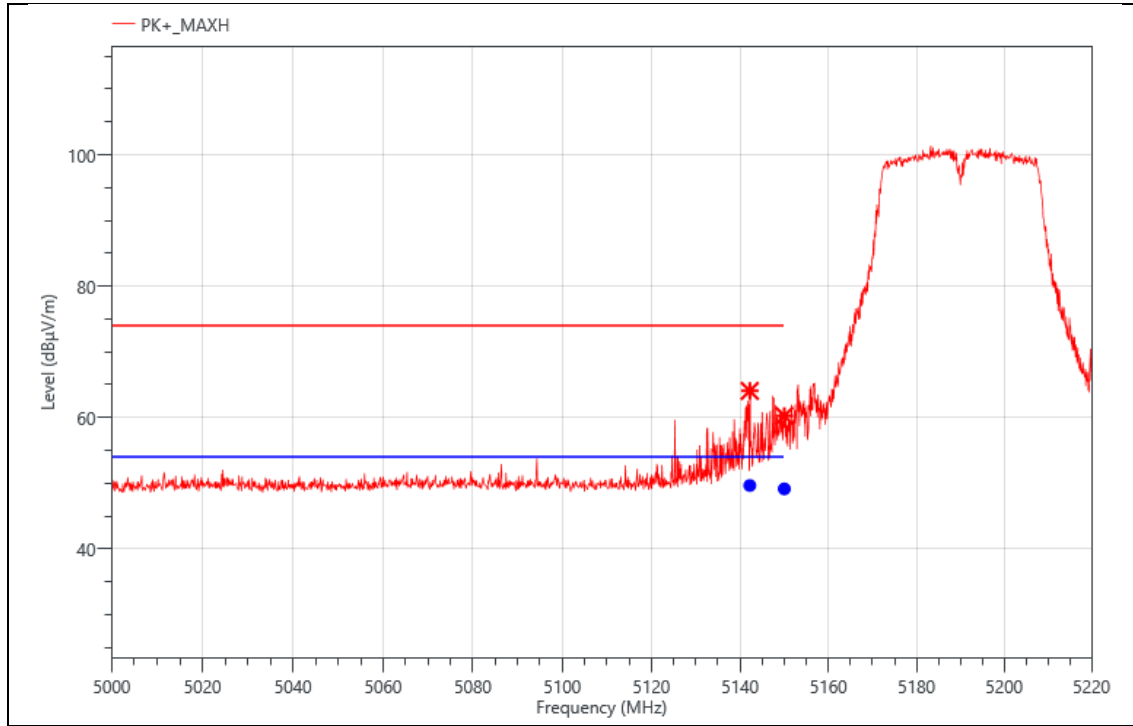


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	5850.000	41.66	29.32	70.98	122.20	51.22	PK+	H
2	5854.425	43.22	29.36	72.58	112.11	39.53	PK+	H

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	N40-5190
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/04/10
T/A/P	22.1°C/51%/101Kpa



Critical_Freqs

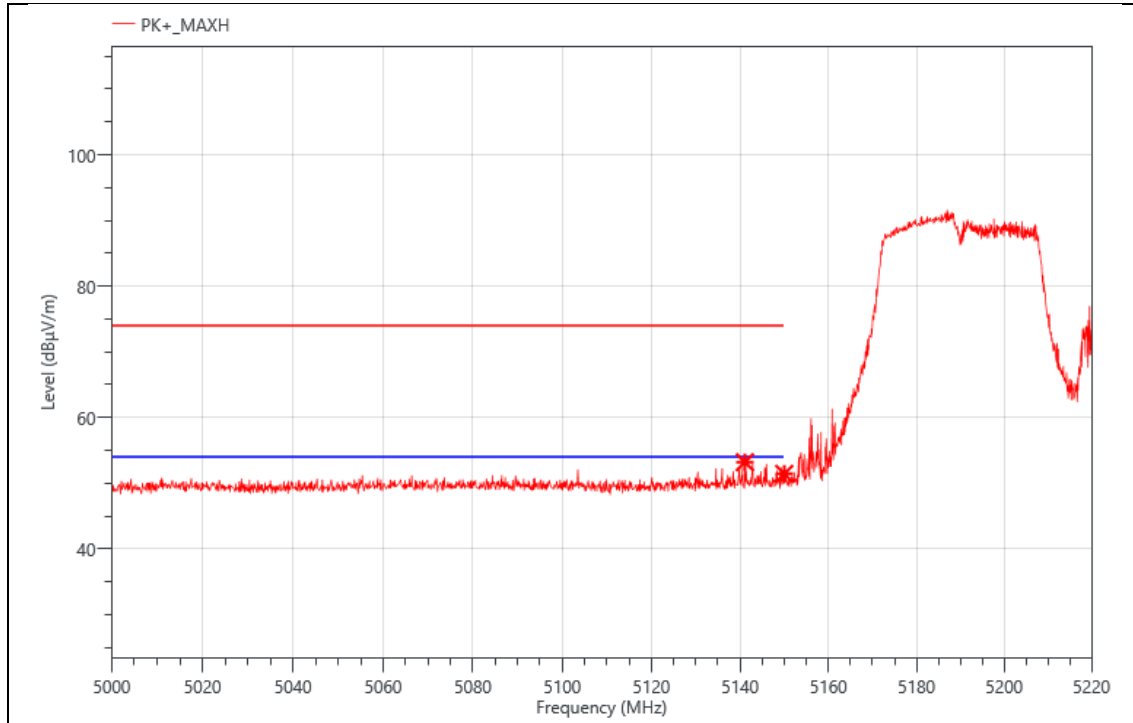
No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	5142.193	35.51	28.54	64.05	74.00	9.95	PK+	H
2	5150.000	31.80	28.45	60.25	74.00	13.75	PK+	H

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	5142.193	21.11	28.54	49.65	54.00	4.35	AVG	H	PASS
2	5150.000	20.68	28.45	49.13	54.00	4.87	AVG	H	PASS

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	N40-5190
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/04/10
T/A/P	22.1°C/51%/101Kpa

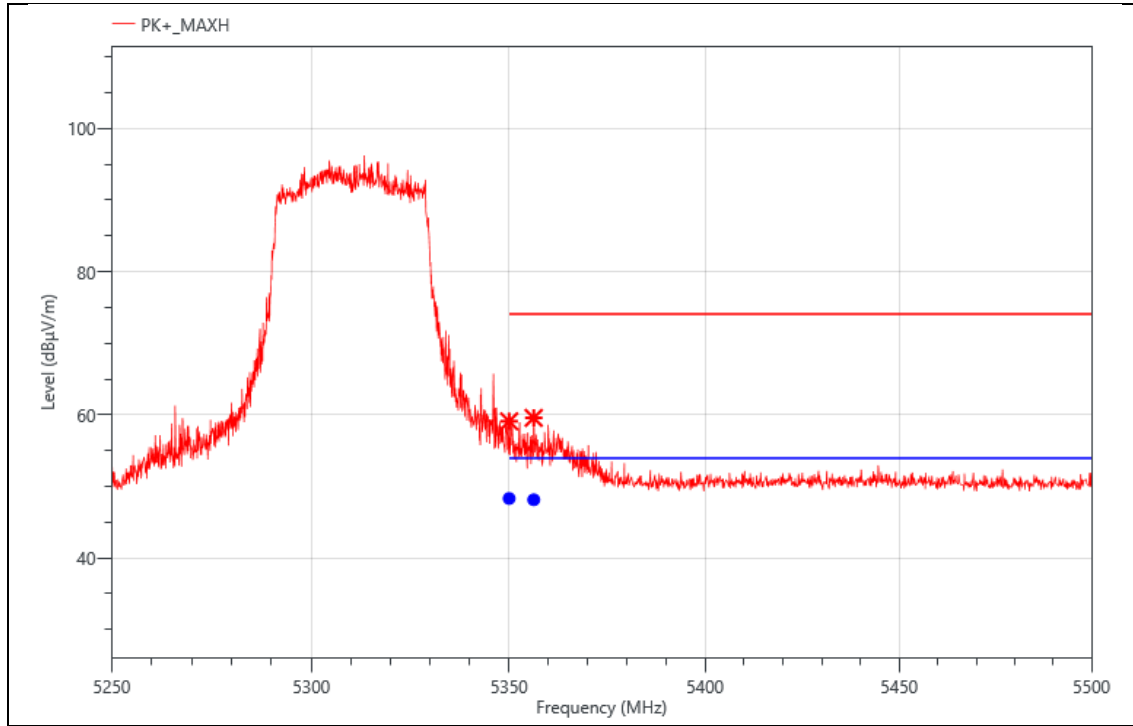


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	5141.093	24.64	28.55	53.19	74.00	20.81	PK+	V
2	5150.000	22.98	28.45	51.43	74.00	22.57	PK+	V

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	AX40-5310
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/04/10
T/A/P	22.1°C/51%/101Kpa



Critical_Freqs

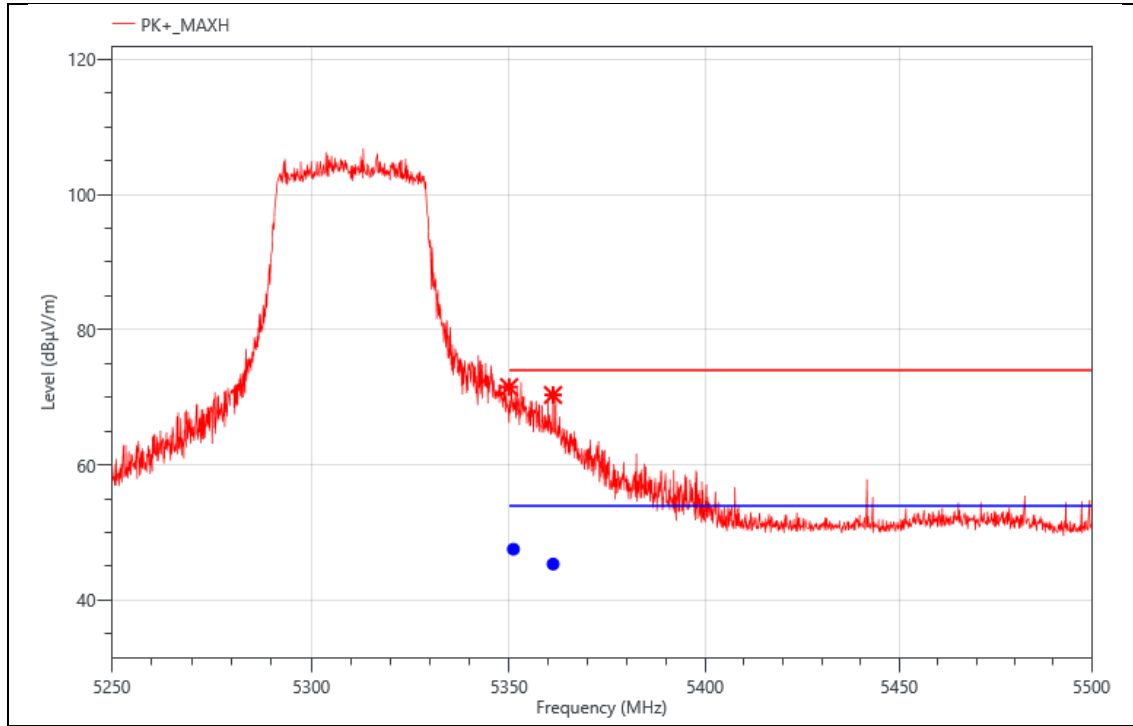
No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	5350.000	30.11	28.99	59.10	74.00	14.90	PK+	V
2	5356.250	30.45	29.13	59.58	74.00	14.42	PK+	V

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	5350.000	19.33	28.99	48.32	54.00	5.68	AVG	V	PASS
2	5356.250	19.01	29.13	48.14	54.00	5.86	AVG	V	PASS

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	AX40-5310
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/04/10
T/A/P	22.1°C/51%/101Kpa



Critical_Freqs

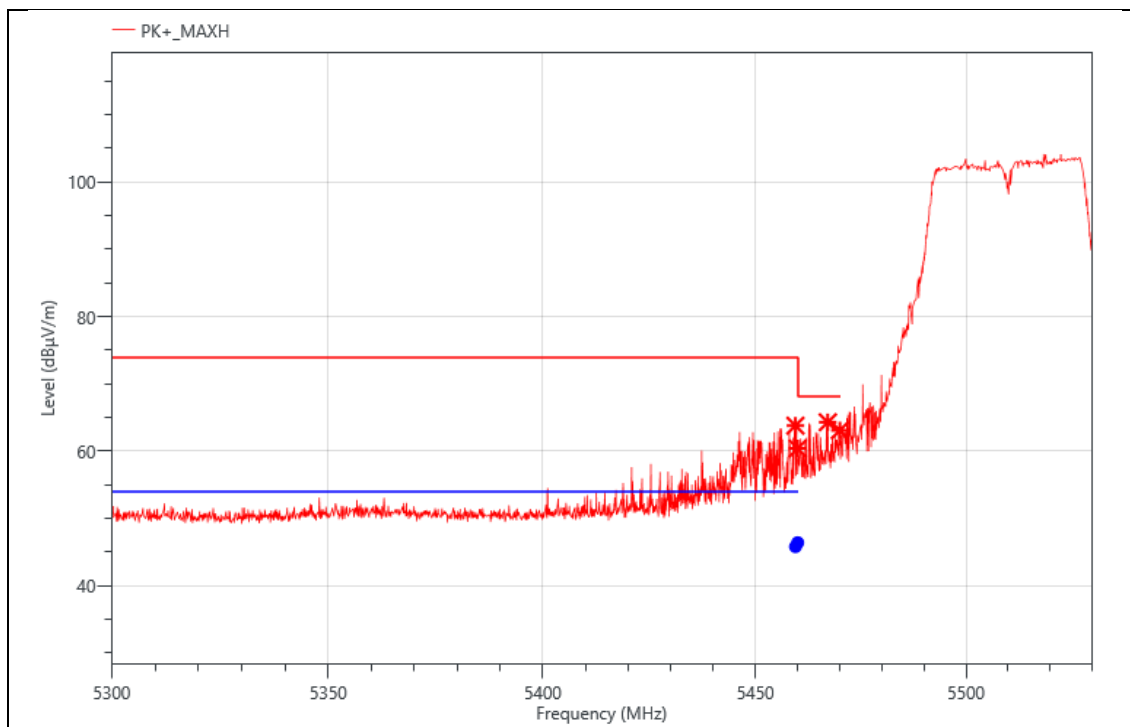
No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	5350.000	42.52	28.99	71.51	74.00	2.49	PK+	H
2	5361.167	41.11	29.23	70.34	74.00	3.66	PK+	H

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	5351.083	18.51	29.02	47.53	54.00	6.47	AVG	H	PASS
2	5361.167	16.11	29.23	45.34	54.00	8.66	AVG	H	PASS

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	N40-5510
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/04/10
T/A/P	22.1°C/51%/101Kpa



Critical_Freqs

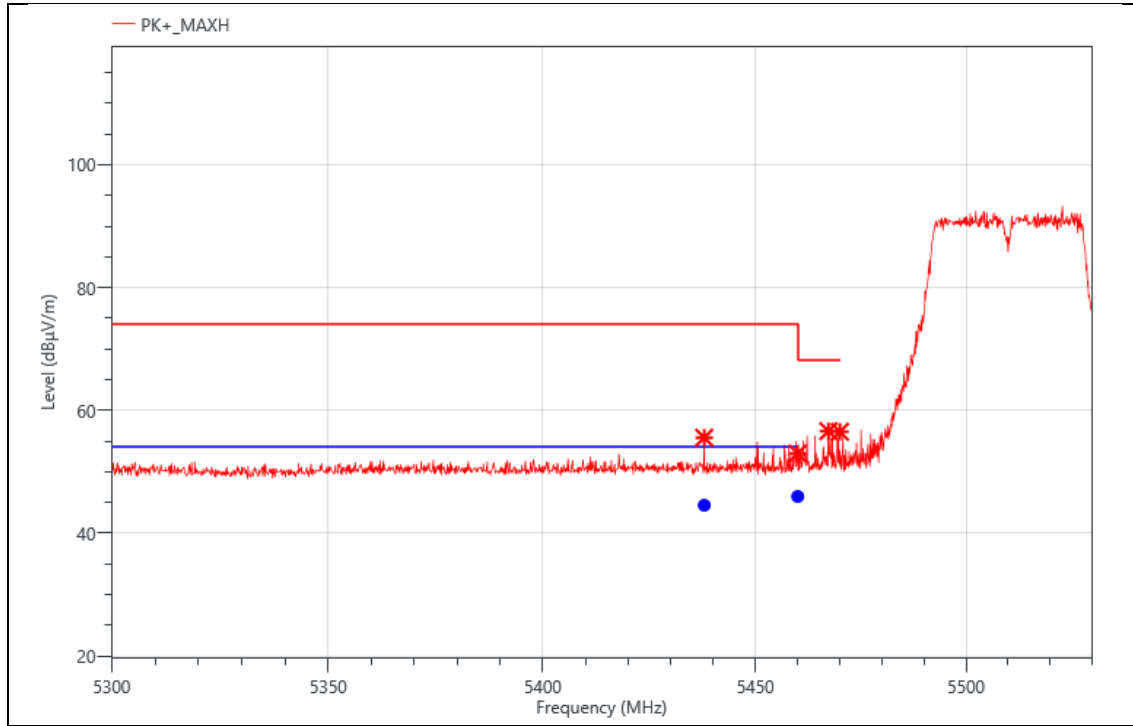
No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	5459.467	34.62	29.15	63.77	74.00	10.23	PK+	H
2	5460.000	31.24	29.14	60.38	68.20	7.82	PK+	H
3	5467.133	35.23	29.05	64.28	68.20	3.92	PK+	H
4	5470.000	34.02	29.05	63.07	68.20	5.13	PK+	H

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	5459.467	16.62	29.15	45.77	54.00	8.23	AVG	H	PASS
2	5460.000	17.24	29.14	46.38	54.00	7.62	AVG	H	PASS

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

Mode:	N40-5510
Power:	AC 120V/60Hz
TE:	Berny
Date	2026/04/10
T/A/P	22.1°C/51%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	5437.923	26.14	29.41	55.55	74.00	18.45	PK+	V
2	5460.000	23.84	29.14	52.98	68.20	15.22	PK+	V
3	5467.287	27.57	29.05	56.62	68.20	11.58	PK+	V
4	5470.000	27.47	29.05	56.52	68.20	11.68	PK+	V

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	5437.923	15.14	29.41	44.55	54.00	9.45	AVG	V	PASS
2	5460.000	16.84	29.14	45.98	54.00	8.02	AVG	V	PASS

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

9. AC POWER LINE CONDUCTION EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

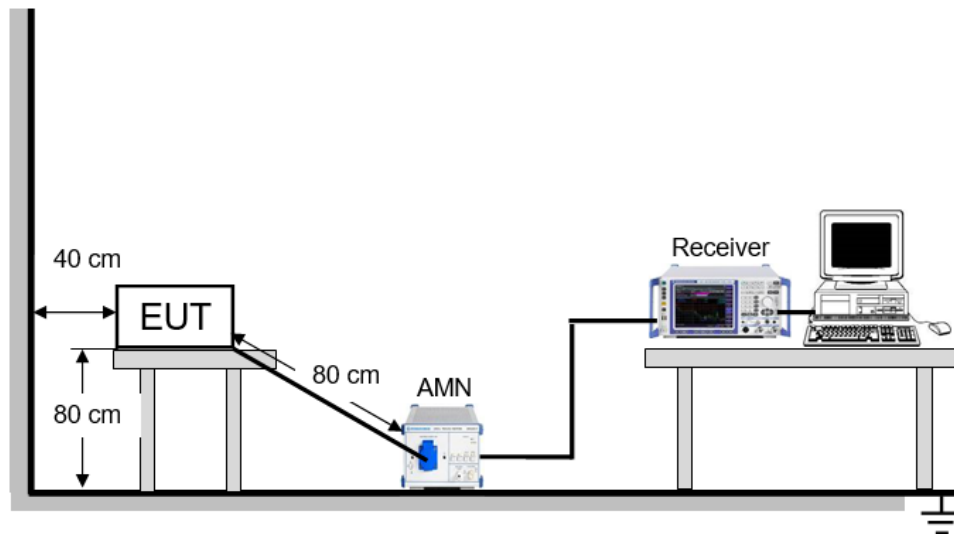
*Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2020. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP

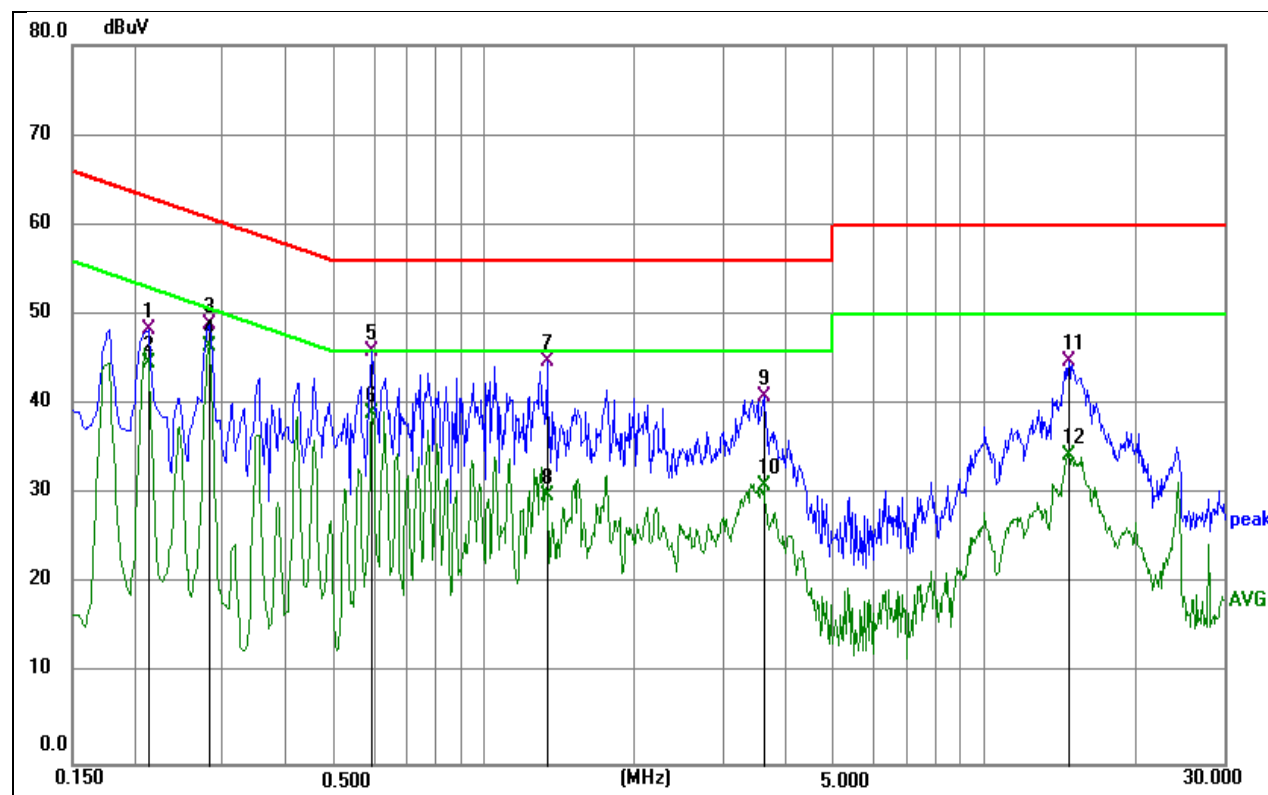


TEST ENVIRONMENT

Temperature	23.2°C	Relative Humidity	52%
Atmosphere Pressure	101kPa		

TEST RESULTS

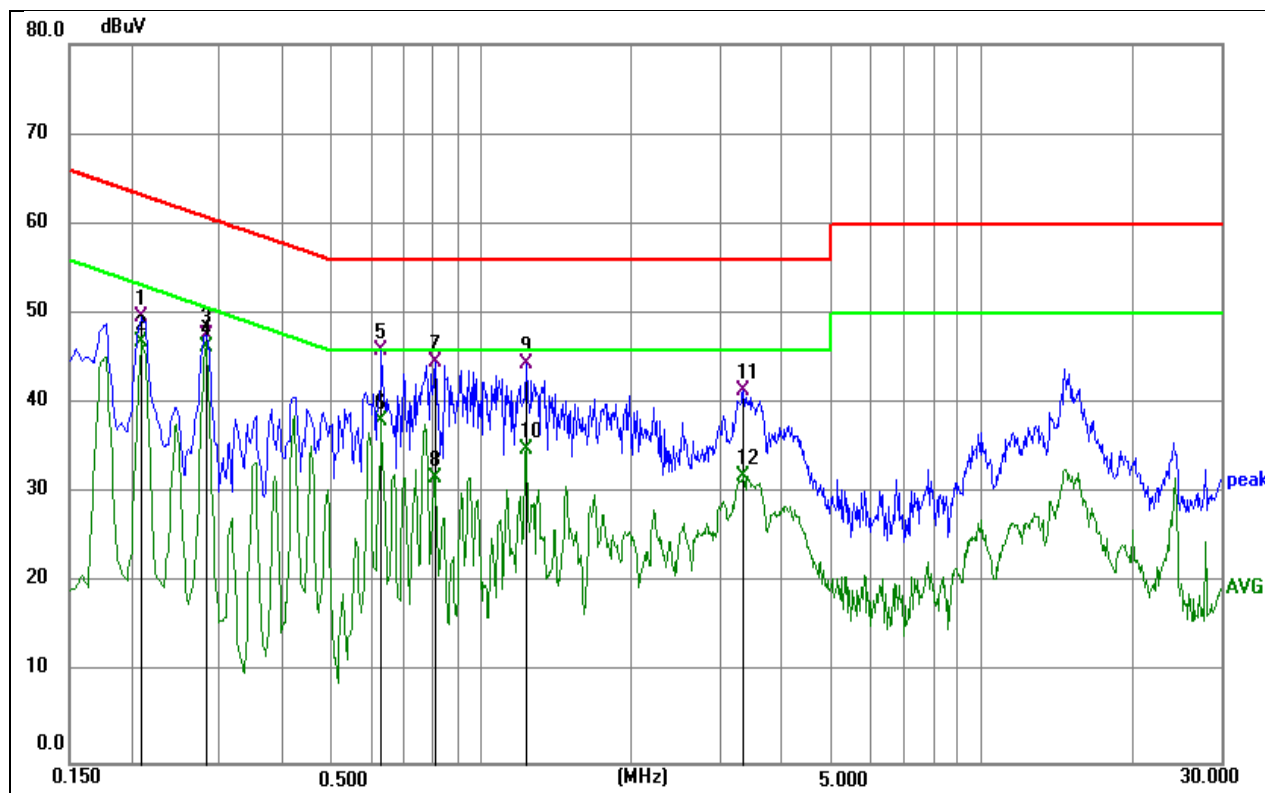
Creality Falcon T1



Phase: L1

Mode: 802.11a 5180MHz

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2130	38.74	9.61	48.35	63.09	-14.74	QP
2	0.2130	34.96	9.61	44.57	53.09	-8.52	AVG
3	0.2805	39.32	9.58	48.90	60.80	-11.90	QP
4	0.2805	37.02	9.58	46.60	50.80	-4.20	AVG
5	0.5955	36.34	9.68	46.02	56.00	-9.98	QP
6	0.5955	29.48	9.68	39.16	46.00	-6.84	AVG
7	1.3335	35.12	9.69	44.81	56.00	-11.19	QP
8	1.3335	20.31	9.69	30.00	46.00	-16.00	AVG
9	3.6060	31.08	9.79	40.87	56.00	-15.13	QP
10	3.6060	21.20	9.79	30.99	46.00	-15.01	AVG
11	14.6805	34.64	10.25	44.89	60.00	-15.11	QP
12	14.6805	24.23	10.25	34.48	50.00	-15.52	AVG

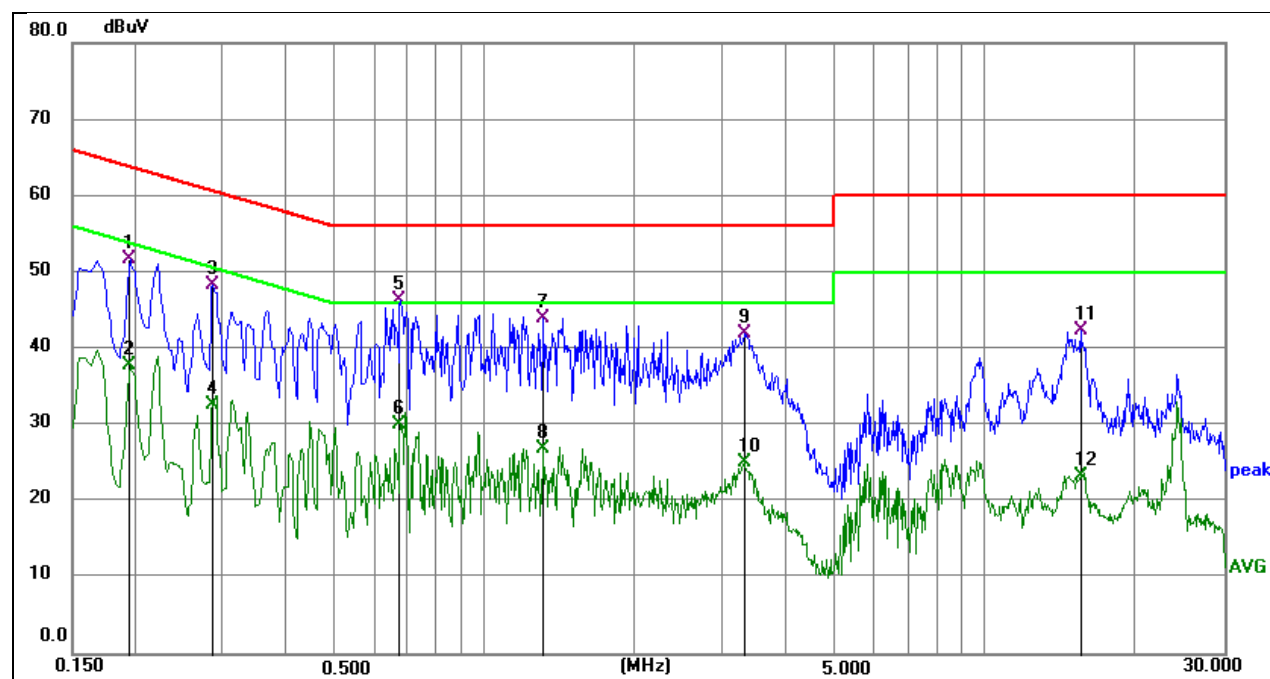


Phase: N

Mode: 802.11a 5180MHz

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2084	39.98	9.66	49.64	63.27	-13.63	QP
2	0.2084	37.25	9.66	46.91	53.27	-6.36	AVG
3	0.2805	38.06	9.62	47.68	60.80	-13.12	QP
4	0.2805	36.71	9.62	46.33	50.80	-4.47	AVG
5	0.6314	36.28	9.67	45.95	56.00	-10.05	QP
6	0.6314	28.54	9.67	38.21	46.00	-7.79	AVG
7	0.8114	34.97	9.65	44.62	56.00	-11.38	QP
8	0.8114	22.09	9.65	31.74	46.00	-14.26	AVG
9	1.2300	34.81	9.68	44.49	56.00	-11.51	QP
10	1.2300	25.31	9.68	34.99	46.00	-11.01	AVG
11	3.3360	31.70	9.72	41.42	56.00	-14.58	QP
12	3.3360	22.34	9.72	32.06	46.00	-13.94	AVG

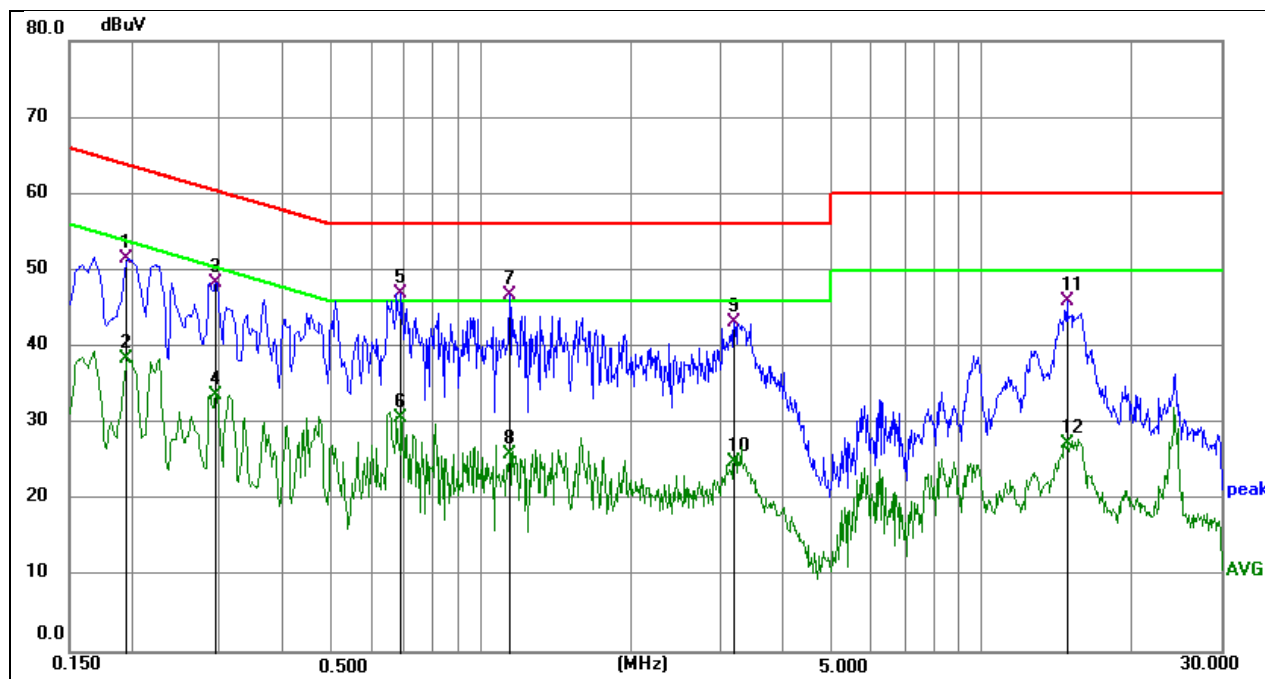
Creality Falcon T1 Fiber 20W



Phase: L1

Mode: 802.11a 5180MHz

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1949	42.12	9.50	51.62	63.83	-12.21	QP
2	0.1949	28.37	9.50	37.87	53.83	-15.96	AVG
3	0.2850	38.83	9.54	48.37	60.67	-12.30	QP
4	0.2850	23.08	9.54	32.62	50.67	-18.05	AVG
5	0.6809	36.73	9.61	46.34	56.00	-9.66	QP
6	0.6809	20.43	9.61	30.04	46.00	-15.96	AVG
7	1.3110	34.50	9.56	44.06	56.00	-11.94	QP
8	1.3110	17.25	9.56	26.81	46.00	-19.19	AVG
9	3.2955	32.35	9.67	42.02	56.00	-13.98	QP
10	3.2955	15.45	9.67	25.12	46.00	-20.88	AVG
11	15.5175	32.47	9.91	42.38	60.00	-17.62	QP
12	15.5175	13.43	9.91	23.34	50.00	-26.66	AVG

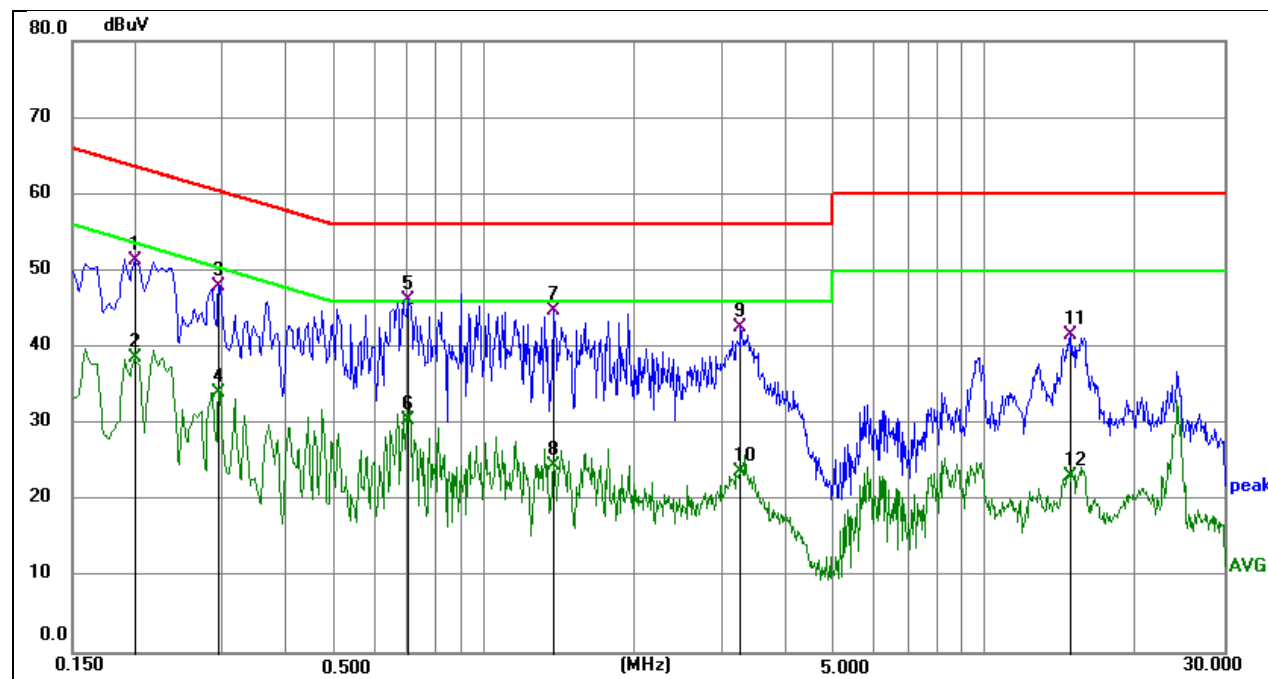


Phase: N

Mode: 802.11a 5180MHz

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1949	41.97	9.59	51.56	63.83	-12.27	QP
2	0.1949	28.86	9.59	38.45	53.83	-15.38	AVG
3	0.2940	38.72	9.53	48.25	60.41	-12.16	QP
4	0.2940	24.19	9.53	33.72	50.41	-16.69	AVG
5	0.6900	37.34	9.62	46.96	56.00	-9.04	QP
6	0.6900	21.00	9.62	30.62	46.00	-15.38	AVG
7	1.1400	37.17	9.61	46.78	56.00	-9.22	QP
8	1.1400	16.37	9.61	25.98	46.00	-20.02	AVG
9	3.1920	33.45	9.66	43.11	56.00	-12.89	QP
10	3.1920	15.23	9.66	24.89	46.00	-21.11	AVG
11	14.8200	36.04	9.94	45.98	60.00	-14.02	QP
12	14.8200	17.44	9.94	27.38	50.00	-22.62	AVG

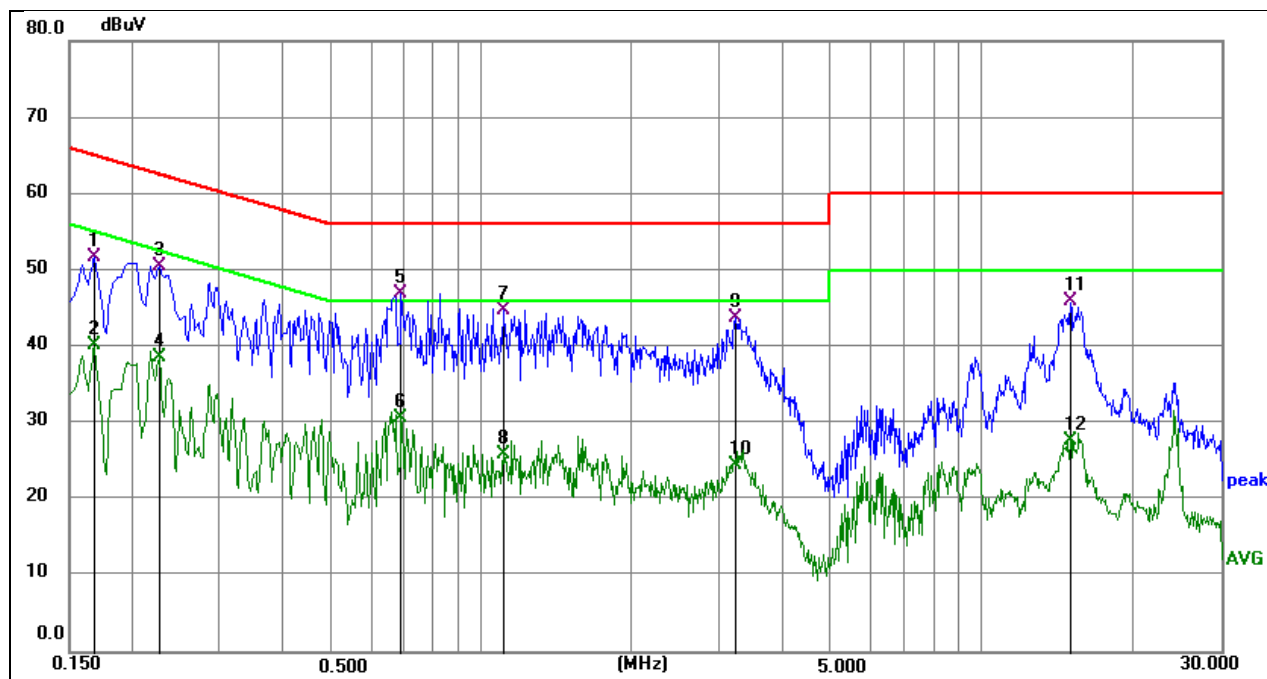
Creality Falcon T1 Diode 40W



Phase: L1

Mode: 802.11a 5180MHz

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1995	41.90	9.51	51.41	63.63	-12.22	QP
2	0.1995	29.07	9.51	38.58	53.63	-15.05	AVG
3	0.2940	38.36	9.52	47.88	60.41	-12.53	QP
4	0.2940	24.54	9.52	34.06	50.41	-16.35	AVG
5	0.7035	36.50	9.61	46.11	56.00	-9.89	QP
6	0.7035	20.89	9.61	30.50	46.00	-15.50	AVG
7	1.3740	35.25	9.56	44.81	56.00	-11.19	QP
8	1.3740	14.95	9.56	24.51	46.00	-21.49	AVG
9	3.2550	32.83	9.67	42.50	56.00	-13.50	QP
10	3.2550	14.08	9.67	23.75	46.00	-22.25	AVG
11	14.8650	31.79	9.88	41.67	60.00	-18.33	QP
12	14.8650	13.15	9.88	23.03	50.00	-26.97	AVG

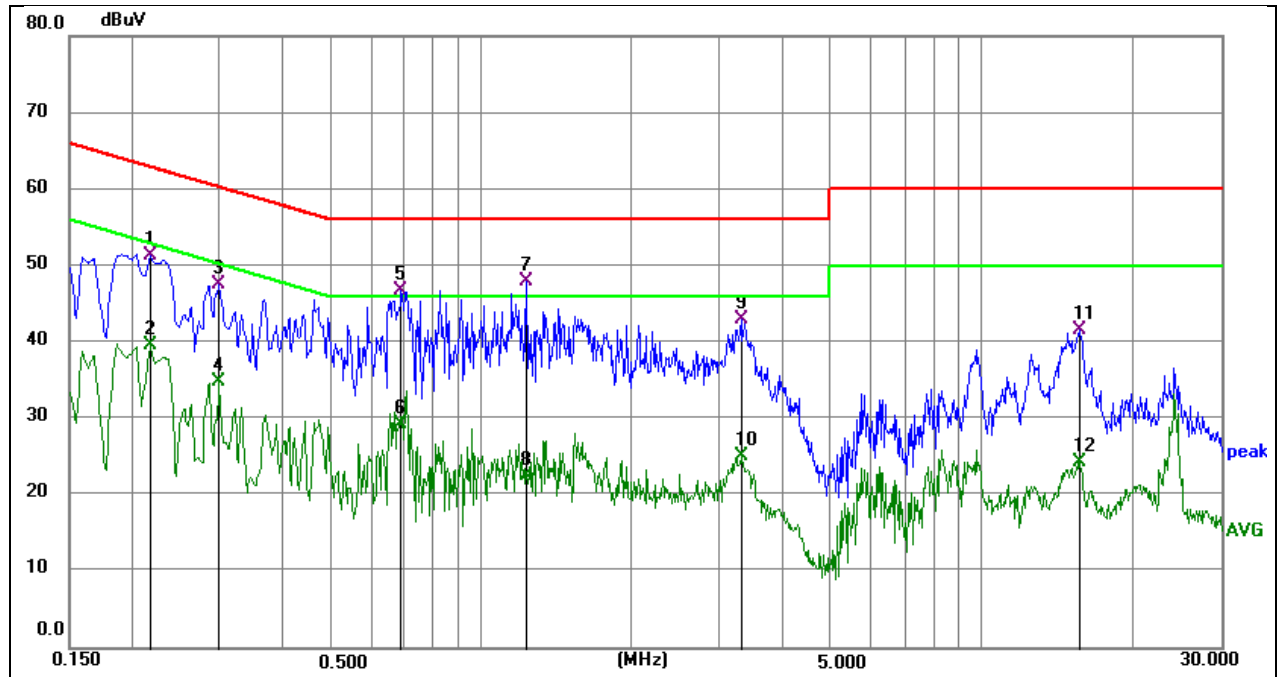


Phase: N

Mode: 802.11a 5180MHz

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1680	42.18	9.60	51.78	65.06	-13.28	QP
2	0.1680	30.50	9.60	40.10	55.06	-14.96	AVG
3	0.2265	40.93	9.56	50.49	62.58	-12.09	QP
4	0.2265	29.09	9.56	38.65	52.58	-13.93	AVG
5	0.6900	37.25	9.62	46.87	56.00	-9.13	QP
6	0.6900	21.11	9.62	30.73	46.00	-15.27	AVG
7	1.1085	35.24	9.60	44.84	56.00	-11.16	QP
8	1.1085	16.23	9.60	25.83	46.00	-20.17	AVG
9	3.2235	34.16	9.66	43.82	56.00	-12.18	QP
10	3.2235	14.79	9.66	24.45	46.00	-21.55	AVG
11	15.0405	35.91	9.95	45.86	60.00	-14.14	QP
12	15.0405	17.65	9.95	27.60	50.00	-22.40	AVG

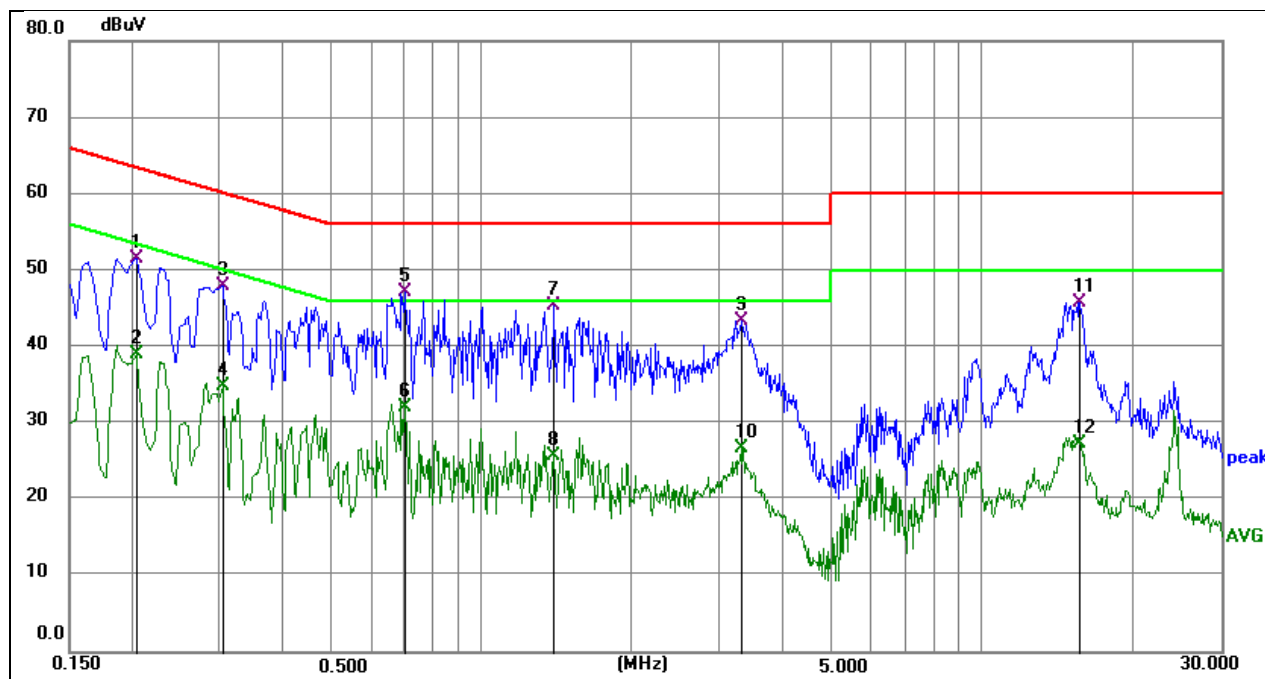
Creality Falcon T1 Diode 20W



Phase: L1

Mode: 802.11a 5180MHz

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2175	41.82	9.54	51.36	62.91	-11.55	QP
2	0.2175	30.06	9.54	39.60	52.91	-13.31	AVG
3	0.2985	38.05	9.51	47.56	60.28	-12.72	QP
4	0.2985	25.40	9.51	34.91	50.28	-15.37	AVG
5	0.6900	37.21	9.61	46.82	56.00	-9.18	QP
6	0.6900	19.65	9.61	29.26	46.00	-16.74	AVG
7	1.2345	38.40	9.55	47.95	56.00	-8.05	QP
8	1.2345	13.07	9.55	22.62	46.00	-23.38	AVG
9	3.2955	33.26	9.67	42.93	56.00	-13.07	QP
10	3.2955	15.49	9.67	25.16	46.00	-20.84	AVG
11	15.6390	31.64	9.91	41.55	60.00	-18.45	QP
12	15.6390	14.37	9.91	24.28	50.00	-25.72	AVG

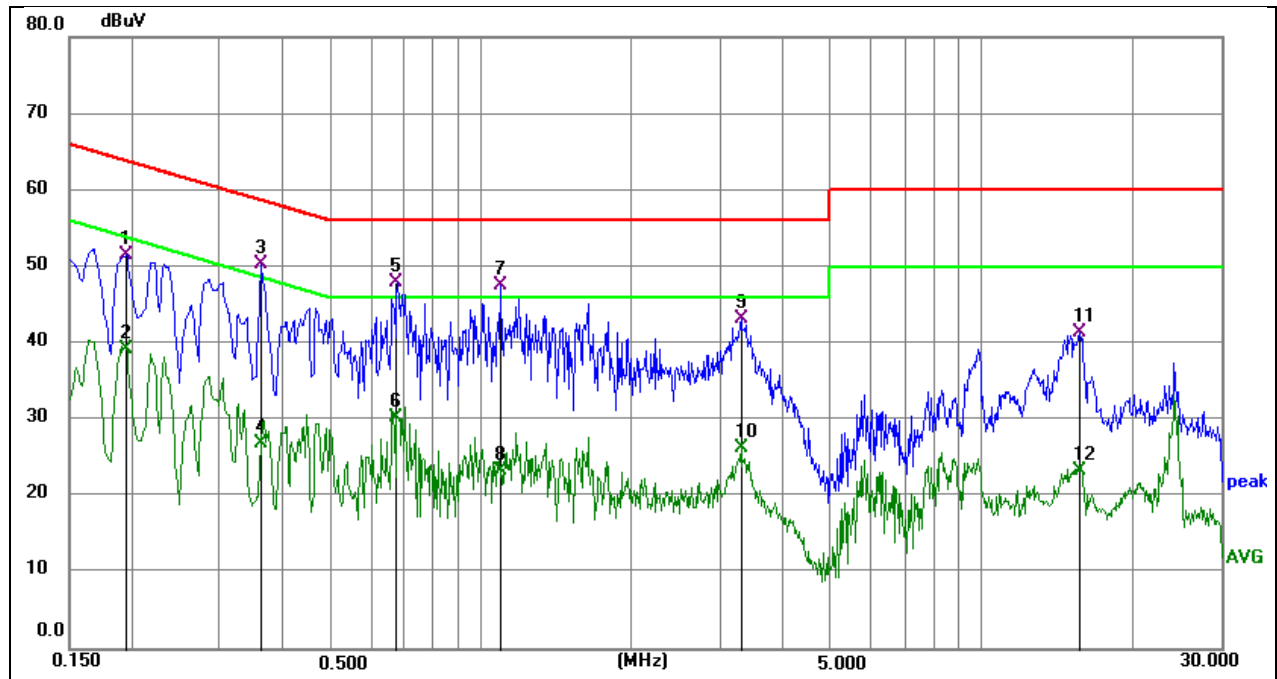


Phase: N

Mode: 802.11a 5180MHz

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2040	42.02	9.59	51.61	63.45	-11.84	QP
2	0.2040	29.38	9.59	38.97	53.45	-14.48	AVG
3	0.3030	38.40	9.54	47.94	60.16	-12.22	QP
4	0.3030	25.26	9.54	34.80	50.16	-15.36	AVG
5	0.7035	37.54	9.62	47.16	56.00	-8.84	QP
6	0.7035	22.38	9.62	32.00	46.00	-14.00	AVG
7	1.3965	35.74	9.62	45.36	56.00	-10.64	QP
8	1.3965	16.03	9.62	25.65	46.00	-20.35	AVG
9	3.3000	33.81	9.66	43.47	56.00	-12.53	QP
10	3.3000	17.00	9.66	26.66	46.00	-19.34	AVG
11	15.6885	35.85	9.96	45.81	60.00	-14.19	QP
12	15.6885	17.43	9.96	27.39	50.00	-22.61	AVG

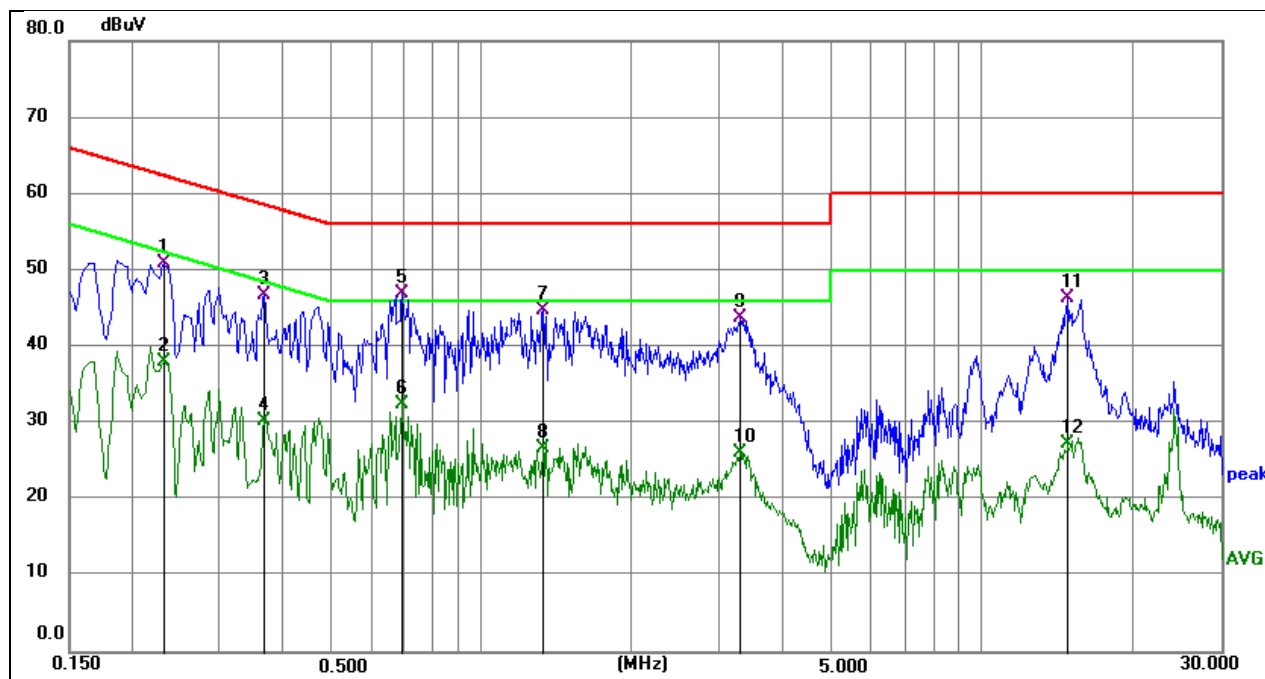
Creality Falcon T1 UV 5W



Phase: L1

Mode: 802.11a 5180MHz

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1949	42.05	9.50	51.55	63.83	-12.28	QP
2	0.1949	29.68	9.50	39.18	53.83	-14.65	AVG
3	0.3614	40.68	9.61	50.29	58.70	-8.41	QP
4	0.3614	17.30	9.61	26.91	48.70	-21.79	AVG
5	0.6809	38.27	9.61	47.88	56.00	-8.12	QP
6	0.6809	20.74	9.61	30.35	46.00	-15.65	AVG
7	1.0905	38.07	9.53	47.60	56.00	-8.40	QP
8	1.0905	13.83	9.53	23.36	46.00	-22.64	AVG
9	3.2955	33.44	9.67	43.11	56.00	-12.89	QP
10	3.2955	16.73	9.67	26.40	46.00	-19.60	AVG
11	15.6390	31.48	9.91	41.39	60.00	-18.61	QP
12	15.6390	13.41	9.91	23.32	50.00	-26.68	AVG



Phase: N

Mode: 802.11a 5180MHz

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2310	41.28	9.55	50.83	62.41	-11.58	QP
2	0.2310	28.40	9.55	37.95	52.41	-14.46	AVG
3	0.3660	37.21	9.57	46.78	58.59	-11.81	QP
4	0.3660	20.64	9.57	30.21	48.59	-18.38	AVG
5	0.6945	37.38	9.62	47.00	56.00	-9.00	QP
6	0.6945	22.82	9.62	32.44	46.00	-13.56	AVG
7	1.3245	35.19	9.61	44.80	56.00	-11.20	QP
8	1.3245	17.14	9.61	26.75	46.00	-19.25	AVG
9	3.2820	34.21	9.66	43.87	56.00	-12.13	QP
10	3.2820	16.39	9.66	26.05	46.00	-19.95	AVG
11	14.8470	36.38	9.94	46.32	60.00	-13.68	QP
12	14.8470	17.41	9.94	27.35	50.00	-22.65	AVG

Note: 1. Result = Reading + Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).

4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

10. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.407(a)

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Standard	Requirement
RSS-Gen issue 5 6.8.	The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list. For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below). When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer. The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested. For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location: This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

	Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.
--	---

DESCRIPTION

Pass

11. ADDITIONAL REQUIREMENTS

REQUIREMENT

The following requirements shall apply:

- a. the device shall automatically discontinue transmission in cases of absence of information to transmit, or operational failure. A description on how this is done shall accompany the application for equipment certification. Note that this is not intended to prohibit transmission of control or signalling information or the use of repetitive codes where required by the technology.
- b. all LE-LAN devices must contain security features to protect against modification of software by unauthorized parties.

Manufacturers must implement security features in any digitally modulated devices capable of operating in any of the frequency ranges within the 5 GHz band, so that third parties are not able to reprogram the device to operate outside the parameters for which the device was certified. The software must prevent the user from operating the transmitter with operating frequencies, output power, modulation types or other radio frequency parameters outside those that were approved for the device. Manufacturers may use various means, including the use of a private network that allows only authenticated users to download software, electronic signatures in software or coding in hardware that is decoded by software to verify that new software can be legally loaded into a device to meet these requirements and must describe the methods in their application for equipment certification.

Manufacturers must take steps to ensure that DFS functionality cannot be disabled by the operator of the LE-LAN device.

- c. the user manual for LE-LAN devices shall contain instructions related to the restrictions mentioned in the above sections, namely that:
 - i. any devices capable of operating in the band 5150–5250 MHz shall only be used indoors to reduce the potential for harmful interference to co-channel mobile satellite systems (this requirement does not apply to OEM devices installed in vehicles by vehicle manufacturers);
 - ii. for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;
 - iii. for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate; and
 - iv. where applicable, antenna type(s), antenna models(s), and worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in section 7.3.2.4 or 7.3.5.3 shall be clearly indicated.

DESCRIPTION

Pass

Note:

The following judgment comes from the manufacturer:

a) Automatic discontinuation of transmission.

We hereby certify that, pursuant to FCC Part 15.407(c) and RSS-247 Issue 4 Clause 7.3.7, the device is designed to automatically terminate RF transmission in the absence of payload data or upon the occurrence of an operational fault.

b) Security features to protect against modification of software by unauthorized parties.

We hereby certify that, pursuant to FCC Part 15.407(c) and RSS-247 Issue 4 Clause 7.3.7, the device incorporates effective security safeguards to preclude unauthorized software alteration. These measures ensure that third parties are unable to reconfigure the device to operate beyond the scope of its certified operational limits.

END OF REPORT