



FCC Test Report

Test report

On Behalf of

Shenzhen Haimeilan Technology Co., LTD.

For

Smart Phone

Model No.: S25 mini, RE6 mini, MT 30 mini, C37 mini, C73 Mini, G37 mini, G73 mini, E55 Mini, H88 mini, C3 mini, C7 mini, G3 mini, G7 mini, Polaris7 mini, Echo8 mini, Sirius9 mini, Alpha10 mini, Zero5 mini, Gear20 mini, Vista16 mini, Viral11 mini, E-on33 mini, Rise77 mini, Opus33 mini, Acro77 mini, RE1 mini, Mt10 mini, C6 mini, C20 mini, G6 mini, C10 mini, C30 mini, Polaris8 mini, Echo9 mini, Sirius40 min, Alpha1 mini, Zero 60 mini, Gear70 mini, Vista10 mini, Viral20 mini, A16 mini, I15 mini, I16 mini, S24 mini, S26 mini, H50 Mini, T3 Ultra, Reno 12 mini, POP9 mini, P70 Ultra

FCC ID: 2BDI3-F

Prepared For : Shenzhen Haimeilan Technology Co., LTD.

9V777, East 9th Floor, Building 2, SEG Science Park, Huaqiang North Street, Futian District, Shenzhen, 518000 China

Prepared By : Shenzhen HUAKE Testing Technology Co., Ltd.

1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Date of Test: Feb. 08, 2025 ~ Apr. 11, 2025

Date of Report: Apr. 11, 2025

Report Number: HK2502080448-2E



Test Result Certification

Applicant's name : Shenzhen Haimeilan Technology Co., LTD.

Address : 9V777, East 9th Floor, Building 2, SEG Science Park, Huaqiang North Street, Futian District, Shenzhen, 518000 China

Manufacturer's Name : Shenzhen Haimeilan Technology Co., LTD.

Address : 9V777, East 9th Floor, Building 2, SEG Science Park, Huaqiang North Street, Futian District, Shenzhen, 518000 China

Product description

Trade Mark: N/A

Product name : Smart Phone

Series Models : S25 mini, RE6 mini, MT 30 mini, C37 mini, C73 Mini, G37 mini, G73 mini, E55 Mini, H88 mini, C3 mini, C7 mini, G3 mini, G7 mini, Polaris7 mini, Echo8 mini, Sirius9 mini, Alpha10 mini, Zero5 mini, Gear20 mini, Vista16 mini, Viral11 mini, E-on33 mini, Rise77 mini, Opus33 mini, Acro77 mini, RE1 mini, Mt10 mini, C6 mini, C20 mini, G6 mini, C10 mini, C30 mini, Polaris8 mini, Echo9 mini, Sirius40 min, Alpha1 mini, Zero 60 mini, Gear70 mini, Vista10 mini, Viral20 mini, A16 mini, I15 mini, I16 mini, S24 mini, S26 mini, H50 Mini, T3 Ultra, Reno 12 mini, POP9 mini, P70 Ultra

Standards : 47 CFR FCC Part 15 Subpart C 15.247

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Date of Test :

Date (s) of performance of tests : Feb. 08, 2025 ~ Apr. 11, 2025

Date of Issue : Apr. 11, 2025

Test Result : **Pass**

Testing Engineer :

(Len Liao)

Technical Manager :

(Sliver Wan)

Authorized Signatory :

(Jason Zhou)

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**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Apr. 11, 2025	Jason Zhou



1 Test Summary

1.1 Test Description

Test Item	Test Requirement	Result
Antenna Requirement	§15.203/§15.247(b)(4)	PASS
Conducted Emission	FCC Part 15.207	PASS
Radiated Emissions	FCC Part 15.205/15.209	PASS
Maximum Peak Output Power	FCC Part 15.247(b)	PASS
Power Spectral Density	FCC Part 15.247(e)	PASS
6dB Bandwidth & 99% Bandwidth	FCC Part 15.247(a)(2)	PASS
Spurious RF Conducted Emission	FCC Part 15.247(d)	PASS
Band Edge	FCC Part 15.247(d)	PASS



1.2 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 2.71\text{dB}$
2	All emissions, radiated(<1G)	$\pm 3.90\text{dB}$
3	All emissions, radiated(>1G)	$\pm 4.28\text{dB}$

1.3 Information of the Test Laboratory

Shenzhen HUAKE Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.



2 General Information

2.1 General Description of EUT

EUT Name:	Smart Phone
Model Name	S25 mini
Series Models:	RE6 mini, MT 30 mini, C37 mini, C73 Mini, G37 mini, G73 mini, E55 Mini, H88 mini, C3 mini, C7 mini, G3 mini, G7 mini, Polaris7 mini, Echo8 mini, Sirius9 mini, Alpha10 mini, Zero5 mini, Gear20 mini, Vista16 mini, Viral11 mini, E-on33 mini, Rise77 mini, Opus33 mini, Acro77 mini, RE1 mini, Mt10 mini, C6 mini, C20 mini, G6 mini, C10 mini, C30 mini, Polaris8 mini, Echo9 mini, Sirius40 min, Alpha1 mini, Zero 60 mini, Gear70 mini, Vista10 mini, Viral20 mini, A16 mini, I15 mini, I16 mini, S24 mini, S26 mini, H50 Mini, T3 Ultra, Reno 12 mini, POP9 mini, P70 Ultra
Model Difference:	All model's the function, software and electric circuit are the same, only with a product color, appearance and model named different. Test sample model: S25 mini.
Trade Mark:	N/A
Operation Frequency:	2402 MHz to 2480 MHz
Channel Separation:	2MHz
Number of Channel:	40
Modulation Technology:	GFSK
Hardware Version:	V1.0
Software Version:	V1.0
Antenna Type:	FPC Antenna
Antenna Gain:	-1.52dBi
Power Supply:	DC5V From Type-C or DC3.8V From Battery
Note:	1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2. Antenna gain Refer to the antenna specifications. 3. The cable loss data is obtained from the supplier. 4. The test results in the report only apply to the tested sample.



Description of Channel:					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	14	2430	28	2458
1	2404	15	2432	29	2460
2	2406	16	2434	30	2462
3	2408	17	2436	31	2464
4	2410	18	2438	32	2466
5	2412	19	2440	33	2468
6	2414	20	2442	34	2470
7	2416	21	2444	35	2472
8	2418	22	2446	36	2474
9	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454		
13	2428	27	2456		

The EUT has been operated in modulations: GFSK independently.

NO.	Test Mode Description
1	Low channel TX
2	Middle channel TX
3	High channel TX
Note: 1. All the test modes can be supply by Built-in Li-ion battery, only the result of the worst case was recorded in the report if no any records. 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.	

2.2 Description of Test Conditions

(1) E.U.T. test conditions:

For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

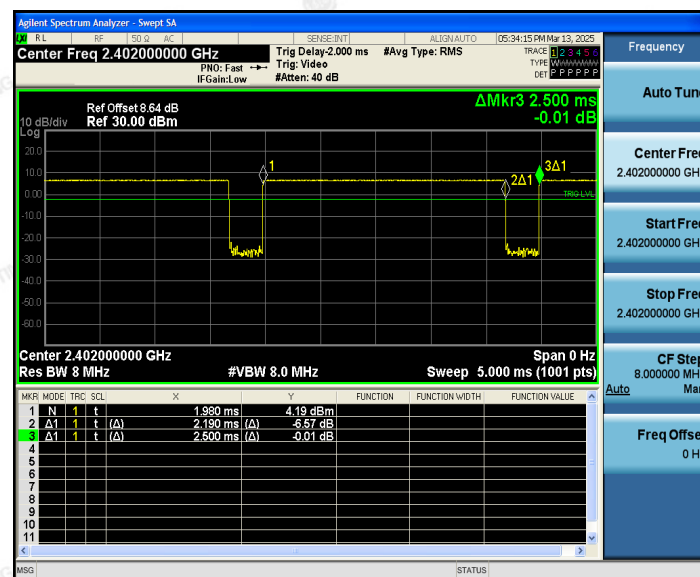
(2) Frequency range of radiated measurements:

The test range will be up to the tenth harmonic of the highest fundamental frequency.

(3) Pre-test the EUT in all transmitting mode at the lowest (2402 MHz), middle (2440 MHz) and highest (2480 MHz) channel with different data packet and conducted to determine the worst-case mode, only the worst-case results are recorded in this report.

(4) Mode Test Duty Cycle

Mode	Duty Cycle
BT-LE(1Mbps)	0.876



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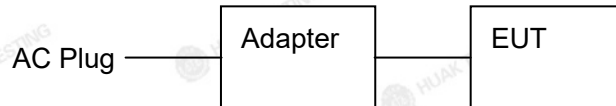
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2.3 Description of Test Setup

Operation of EUT during conducted testing and below 1GHz radiation testing:



Operation of EUT during above 1GHz radiation testing:



The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position.



2.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Trade Mark	Model/Type No.	Specification	Remark
1	Smart Phone	N/A	S25 mini	N/A	EUT
2	USB Cable	N/A	N/A	Length:0.82m	Accessory
3	Adapter	N/A	APD5-2	Input: AC 100-240V, 50/60Hz, 0.5A Output: DC 5V, 2A	Accessory

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



3 Equipments List for All Test Items

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	L.I.S.N.	R&S	ENV216	HKE-002	2024/02/20	1 Year
2	L.I.S.N.	R&S	ENV216	HKE-059	2024/02/20	1 Year
3	EMI Test Receiver	R&S	ESR	HKE-005	2024/02/20	1 Year
4	Spectrum analyzer	Agilent	N9020A	HKE-048	2024/02/20	1 Year
5	Spectrum analyzer	R&S	FSV3044	HKE-126	2024/02/20	1 Year
6	Preamplifier	EMCI	EMC051845S	HKE-006	2024/02/20	1 Year
7	Preamplifier	Schwarzbeck	BBV 9743	HKE-016	2024/02/20	1 Year
8	Preamplifier	A.H. Systems	SAS-574	HKE-182	2024/02/20	1 Year
9	6d Attenuator	Pasternack	6db	HKE-184	2024/02/20	1 Year
10	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	2024/02/20	1 Year
11	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	2024/02/21	2 Year
12	Loop Antenna	COM-POWER	AL-130R	HKE-014	2024/02/21	2 Year
13	Horn Antenna	Schwarzbeck	9120D	HKE-013	2024/02/21	2 Year
14	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	/	/
15	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	/	/
16	RF Automatic control unit	Tonscend	JS0806-1	HKE-096	2024/02/20	1 Year
17	High pass filter unit	Tonscend	JS0806-F	HKE-055	2024/02/20	1 Year
18	Wireless Communication Test Set	R&S	CMU200	HKE-026	2024/02/20	1 Year
19	Wireless Communication Test Set	R&S	CMW500	HKE-027	2024/02/20	1 Year
20	High-low temperature chamber	Guangke	HT-80L	HKE-118	2024/06/10	1 Year
21	Temperature and humidity meter	Boyang	HTC-1	HKE-075	2024/06/10	1 Year
22	RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	/	/
23	10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	2024/02/20	1 Year
24	RSE Test Software	Tonscend	JS36-RSE 5.0. 0	HKE-184	/	/

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Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	L.I.S.N.	R&S	ENV216	HKE-002	2025/02/19	1 Year
2	L.I.S.N.	R&S	ENV216	HKE-059	2025/02/19	1 Year
3	EMI Test Receiver	R&S	ESR	HKE-005	2025/02/19	1 Year
4	Spectrum analyzer	Agilent	N9020A	HKE-025	2025/02/19	1 Year
5	Spectrum analyzer	R&S	FSV3044	HKE-126	2025/02/19	1 Year
6	Preamplifier	EMCI	EMC051845 S	HKE-006	2025/02/19	1 Year
7	Preamplifier	Schwarzbeck	BBV 9743	HKE-016	2025/02/19	1 Year
8	Preamplifier	A.H. Systems	SAS-574	HKE-182	2025/02/19	1 Year
9	6d Attenuator	Pasternack	6db	HKE-184	2025/02/19	1 Year
10	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	2025/02/19	1 Year
11	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	2024/02/21	2 Year
12	Loop Antenna	COM-POWER	AL-130R	HKE-014	2024/02/21	2 Year
13	Horn Antenna	Schwarzbeck	9120D	HKE-013	2024/02/21	2 Year
14	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	/	/
15	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	/	/
16	RF Automatic control unit	Tonscend	JS0806-2	HKE-060	2025/02/19	1 Year
17	High pass filter unit	Tonscend	JS0806-F	HKE-055	2025/02/19	1 Year
18	Wireless Communication Test Set	R&S	CMU200	HKE-026	2025/02/19	1 Year
19	Wireless Communication Test Set	R&S	CMW500	HKE-027	2025/02/19	1 Year
20	High-low temperature chamber	Guangke	HT-80L	HKE-118	2024/06/10	1 Year
21	Temperature and humidity meter	Boyang	HTC-1	HKE-075	2024/06/10	1 Year
22	RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083	/	/
23	10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	2025/02/19	1 Year
24	RSE Test Software	Tonscend	JS36-RSE 5. 0.0	HKE-184	/	/

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4 Test Result

4.1 Antenna Requirement

4.1.1 Standard Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The antenna used in this product is a FPC Antenna, need professional installation, not easy to remove. It conforms to the standard requirements. The directional gains of antenna used for transmitting is -1.52dBi.

4.1.2 EUT Antenna





4.2 Conduction Emissions Measurement

4.2.1 Applied Procedures / Limit

According to FCC CFR Title 47 Part 15 Subpart C Section 15.207, AC Power Line Conducted Emissions Limits for Licence-Exempt Radio Apparatus as below:

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

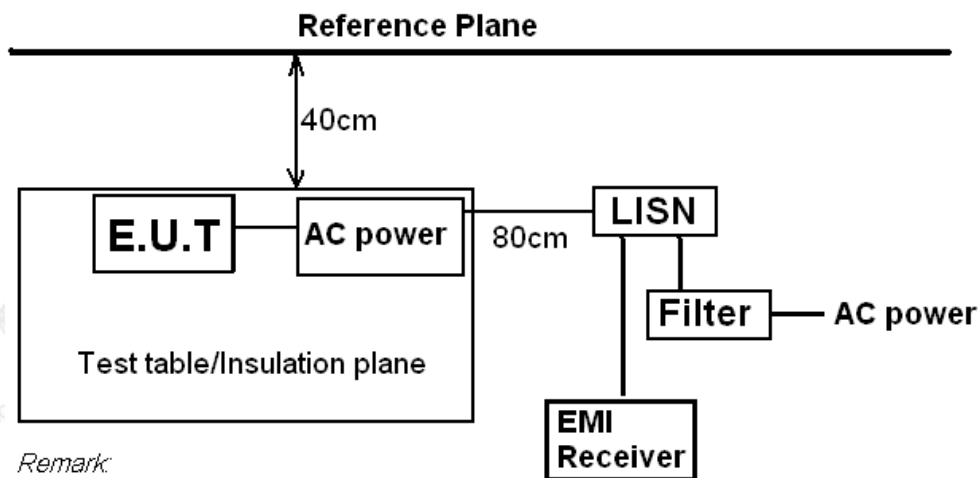
* Decreases with the logarithm of the frequency.

4.2.2 Test Procedure

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10:2013.
2. Support equipment, if needed, was placed as per ANSI C63.10:2013.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10:2013.
4. The adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.



4.2.3 Test Setup



Remark:

E.U.T: Equipment Under Test

LISN: Line Impedance Stabilization Network

Test table height=0.8m



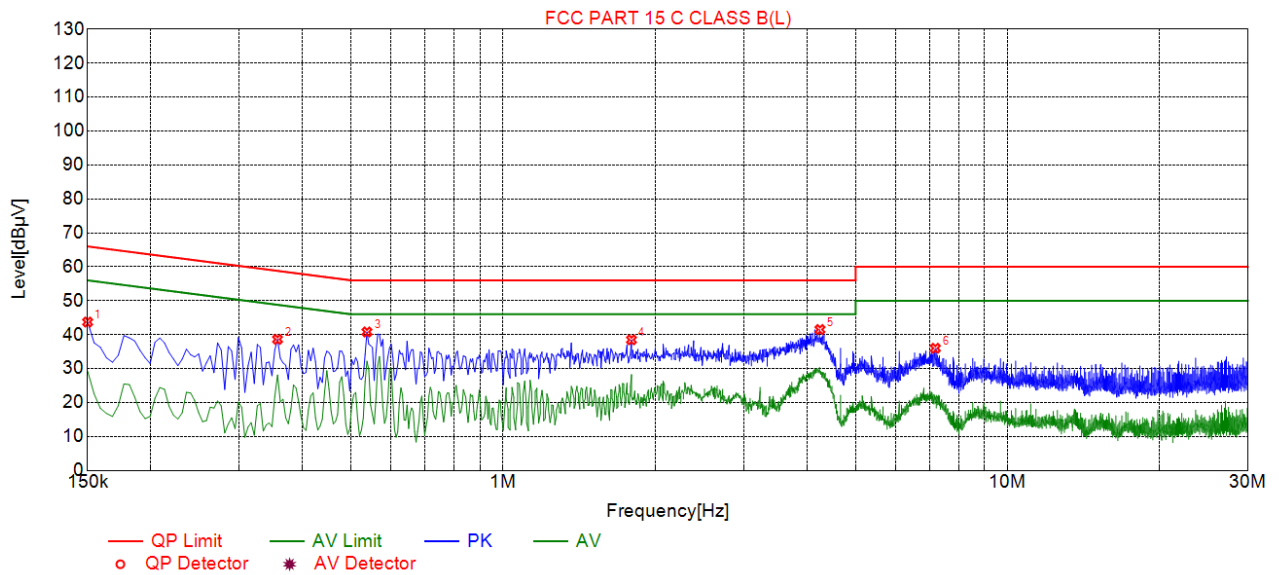
4.2.4 Test Results

PASS

Only the worst result of GFSK Low channel TX was reported as below:

Test Model No.: S25 mini

Test Specification: Line



Suspected List								
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1500	43.72	19.83	66.00	22.28	23.89	PK	L
2	0.3570	38.62	19.83	58.80	20.18	18.79	PK	L
3	0.5370	40.80	19.85	56.00	15.20	20.95	PK	L
4	1.7970	38.48	19.96	56.00	17.52	18.52	PK	L
5	4.2495	41.51	20.09	56.00	14.49	21.42	PK	L
6	7.1970	35.99	20.06	60.00	24.01	15.93	PK	L

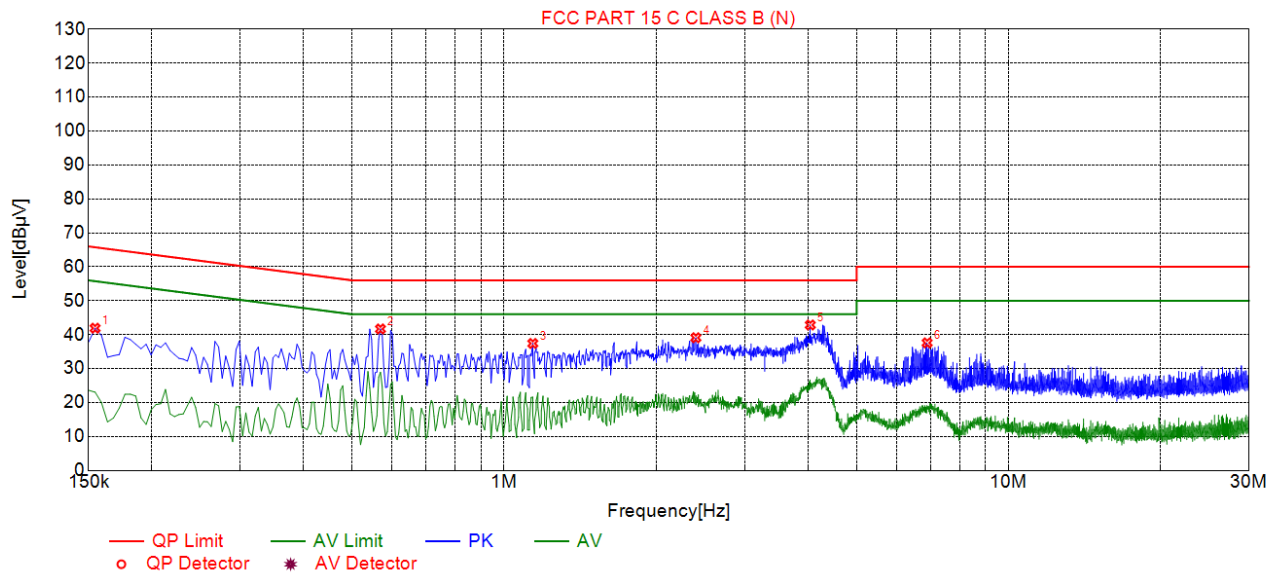
Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



Test Specification: Neutral



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1545	41.91	19.73	65.75	23.84	22.18	PK	N
2	0.5685	41.68	19.74	56.00	14.32	21.94	PK	N
3	1.1400	37.41	19.77	56.00	18.59	17.64	PK	N
4	2.4000	39.09	19.88	56.00	16.91	19.21	PK	N
5	4.0470	42.85	19.97	56.00	13.15	22.88	PK	N
6	6.9000	37.58	19.97	60.00	22.42	17.61	PK	N

Remark: Margin = Limit – Level

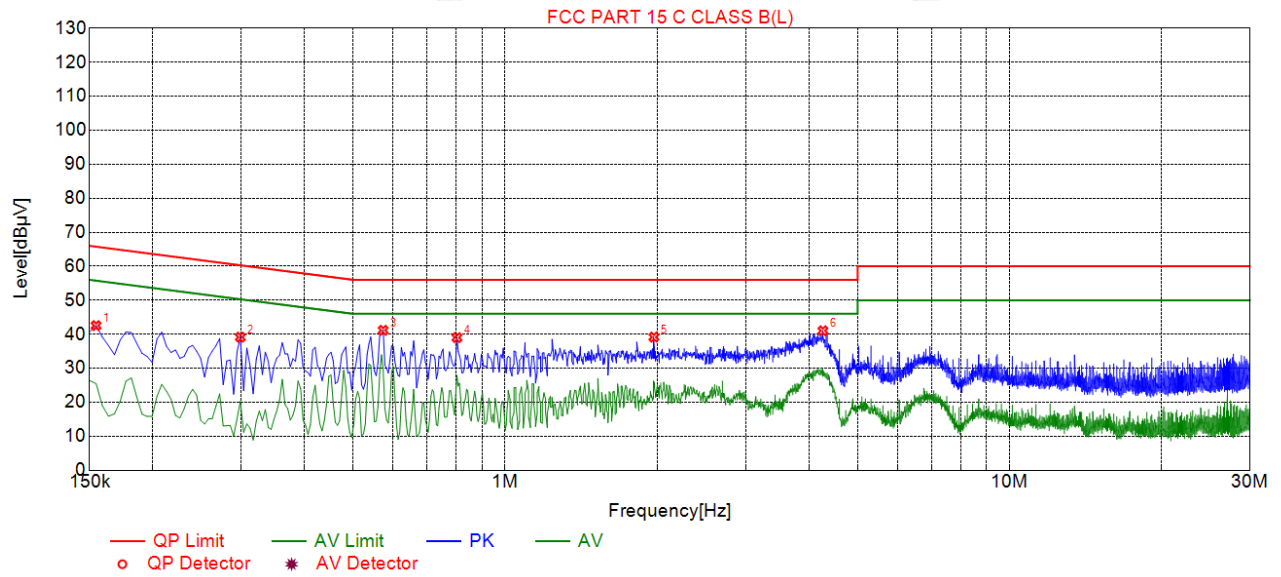
Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



Series Model No.: I16 mini

Test Specification: Line



Suspected List								
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1545	42.54	19.83	65.75	23.21	22.71	PK	L
2	0.2985	39.13	19.84	60.28	21.15	19.29	PK	L
3	0.5730	41.15	19.86	56.00	14.85	21.29	PK	L
4	0.8025	39.01	19.86	56.00	16.99	19.15	PK	L
5	1.9725	39.16	19.96	56.00	16.84	19.20	PK	L
6	4.2675	41.02	20.09	56.00	14.98	20.93	PK	L

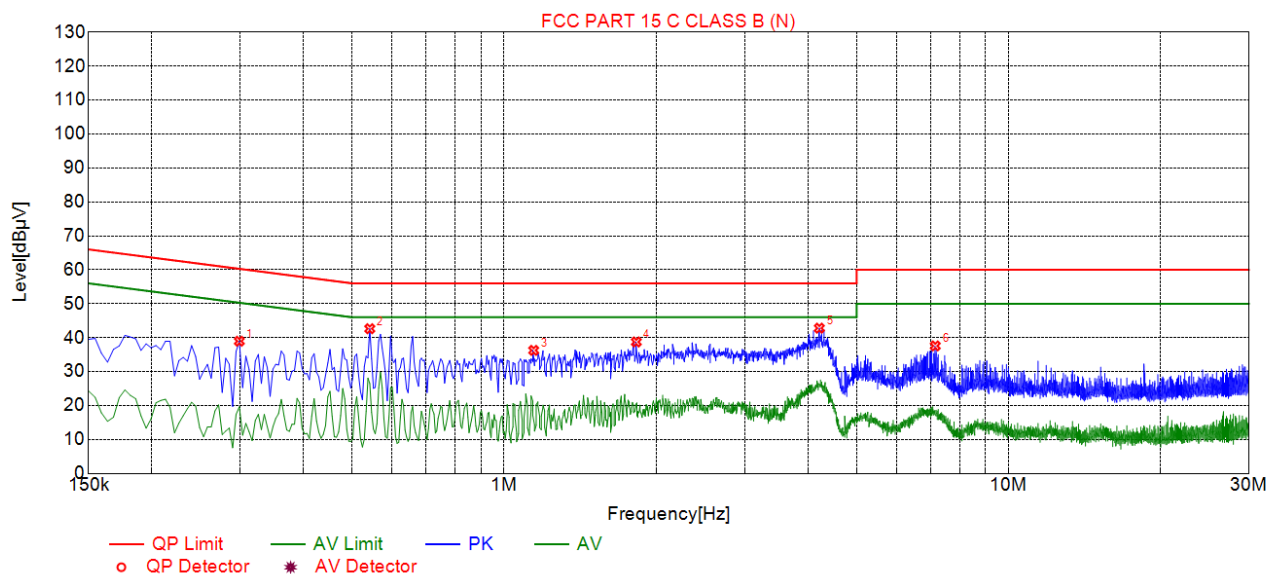
Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



Test Specification: Neutral



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.2985	38.96	19.73	60.28	21.32	19.23	PK	N
2	0.5415	42.64	19.74	56.00	13.36	22.90	PK	N
3	1.1445	36.26	19.77	56.00	19.74	16.49	PK	N
4	1.8285	38.74	19.83	56.00	17.26	18.91	PK	N
5	4.2180	42.80	19.98	56.00	13.20	22.82	PK	N
6	7.1610	37.57	19.96	60.00	22.43	17.61	PK	N

Remark: Margin = Limit – Level

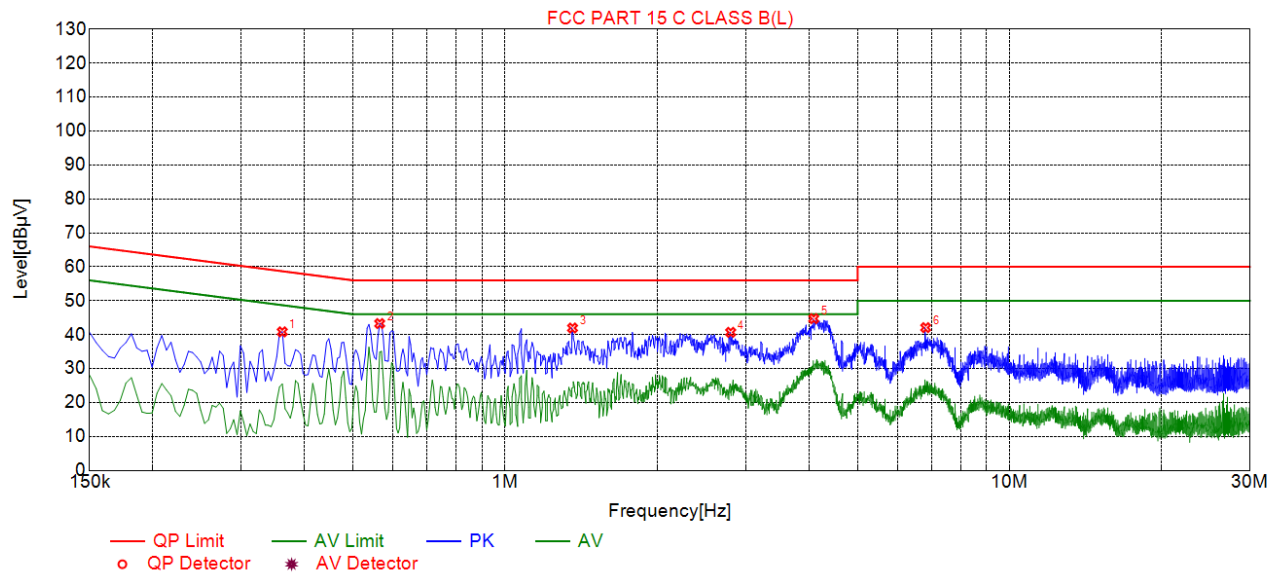
Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



Series Model No.: H50 mini

Test Specification: Line



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.3815	40.83	19.84	58.69	17.86	20.99	PK	L
2	0.5640	43.27	19.86	58.00	12.73	23.41	PK	L
3	1.3605	41.98	19.92	58.00	14.04	22.04	PK	L
4	2.8005	40.69	20.04	58.00	15.31	20.65	PK	L
5	4.0920	44.72	20.09	58.00	11.28	24.63	PK	L
6	6.8235	42.07	20.07	60.00	17.93	22.00	PK	L

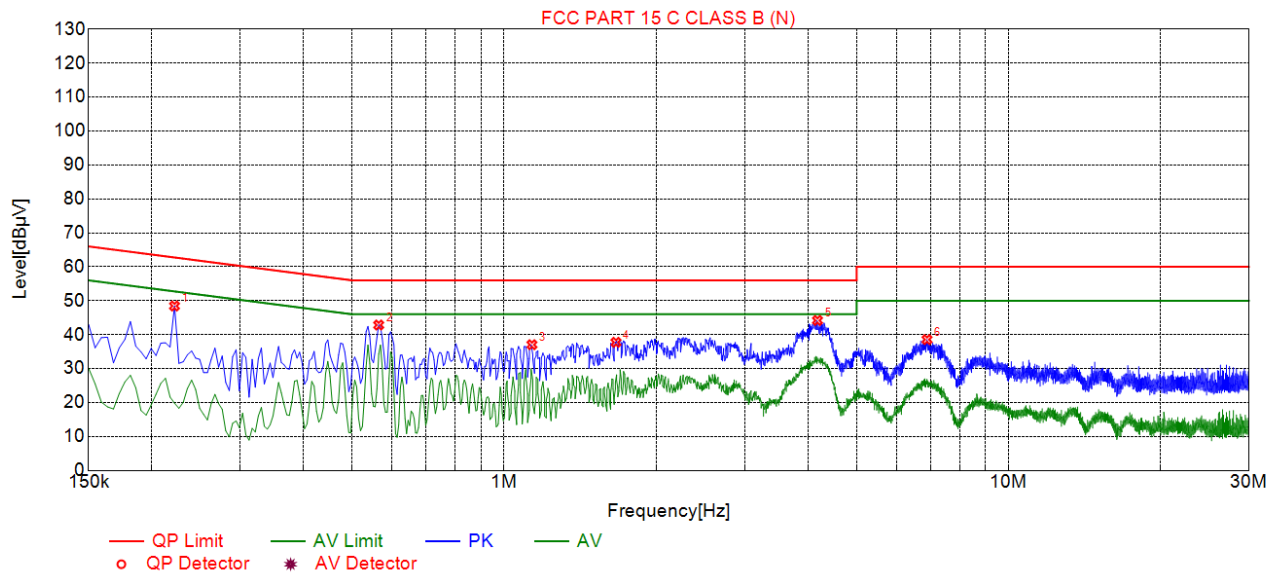
Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



Test Specification: Neutral



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.2220	48.45	19.74	62.74	14.29	28.71	PK	N
2	0.5640	42.84	19.75	56.00	13.16	23.09	PK	N
3	1.1355	37.04	19.77	56.00	18.96	17.27	PK	N
4	1.6665	37.75	19.81	56.00	18.25	17.94	PK	N
5	4.1820	44.19	19.98	56.00	11.81	24.21	PK	N
6	6.8955	38.55	19.97	60.00	21.45	18.58	PK	N

Remark: Margin = Limit – Level

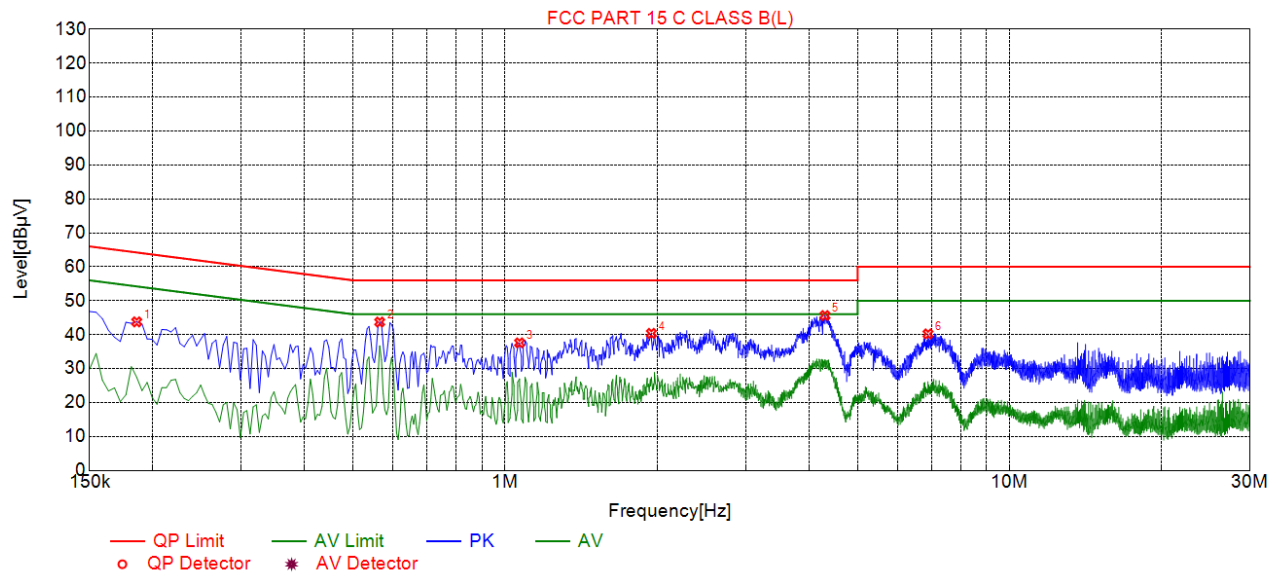
Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



Series Model No.: P70 Ultra

Test Specification: Line



Suspected List								
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1860	43.77	19.85	64.21	20.44	23.92	PK	L
2	0.5640	43.72	19.86	56.00	12.28	23.86	PK	L
3	1.0680	37.59	19.88	56.00	18.41	17.71	PK	L
4	1.9500	40.38	19.96	56.00	15.62	20.42	PK	L
5	4.3080	45.63	20.09	56.00	10.37	25.54	PK	L
6	6.8955	40.22	20.07	60.00	19.78	20.15	PK	L

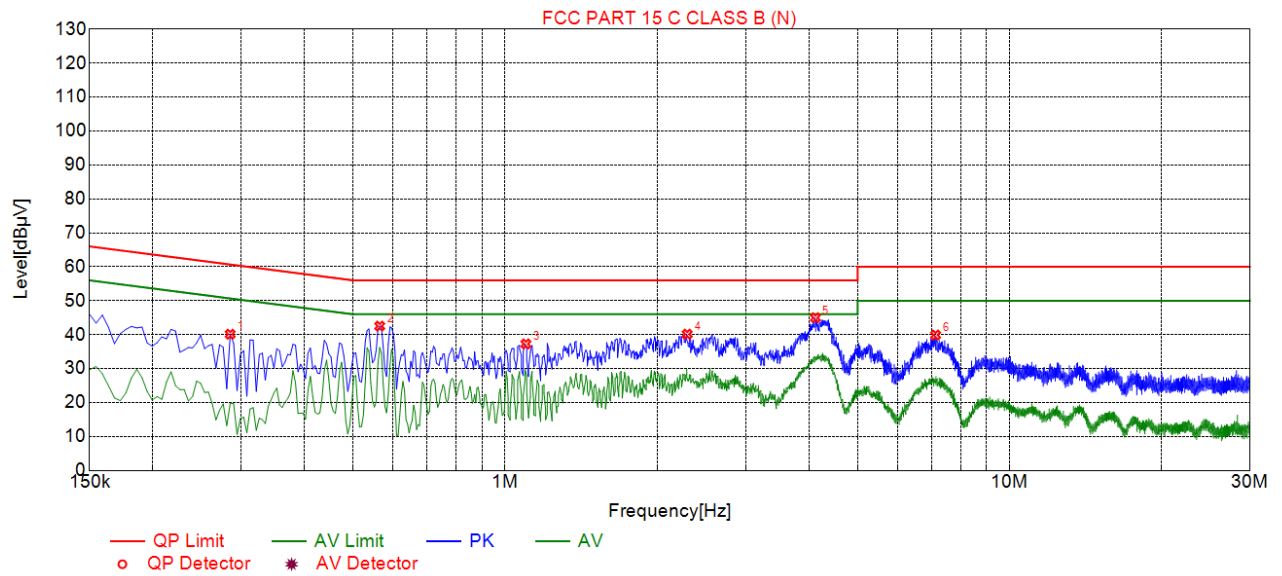
Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



Test Specification: Neutral



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.2850	40.14	19.73	60.67	20.53	20.41	PK	N
2	0.5640	42.52	19.75	56.00	13.48	22.77	PK	N
3	1.0995	37.27	19.75	56.00	18.73	17.52	PK	N
4	2.2965	40.15	19.88	56.00	15.85	20.27	PK	N
5	4.1235	44.99	19.98	56.00	11.01	25.01	PK	N
6	7.1385	39.89	19.96	60.00	20.11	19.93	PK	N

Remark: Margin = Limit – Level

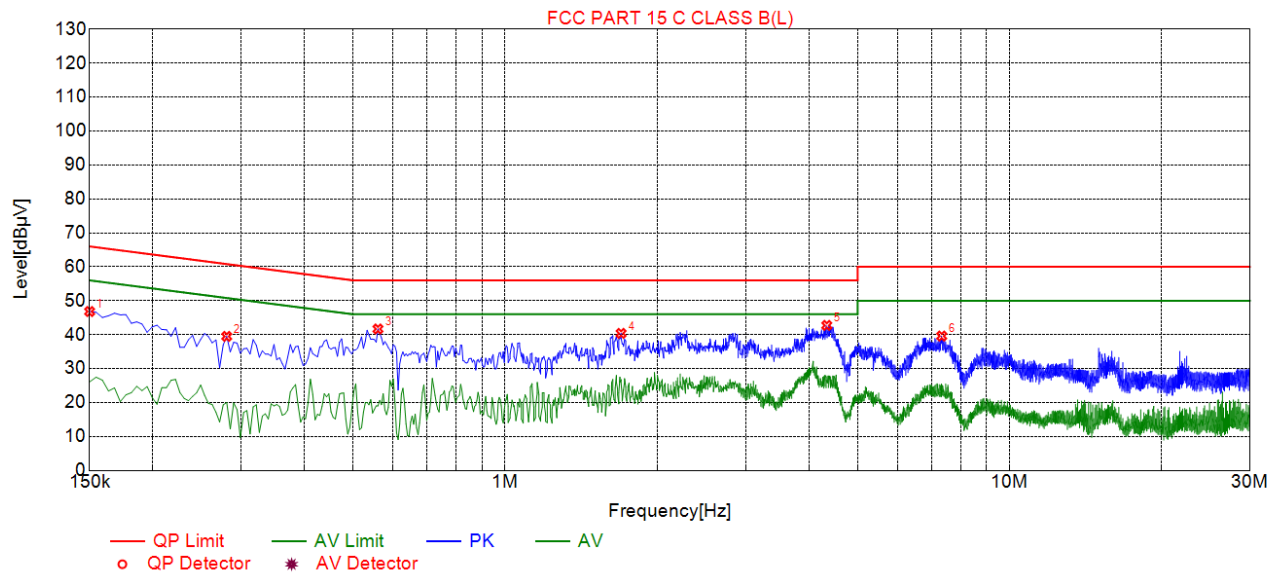
Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



Series Model No.: Reno 12 mini

Test Specification: Line



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1500	46.82	19.83	66.00	19.18	26.99	PK	L
2	0.2805	39.49	19.84	60.80	21.31	19.65	PK	L
3	0.5595	41.68	19.86	56.00	14.32	21.82	PK	L
4	1.6980	40.38	19.95	56.00	15.62	20.43	PK	L
5	4.3440	42.73	20.09	56.00	13.27	22.64	PK	L
6	7.3410	39.59	20.05	60.00	20.41	19.54	PK	L

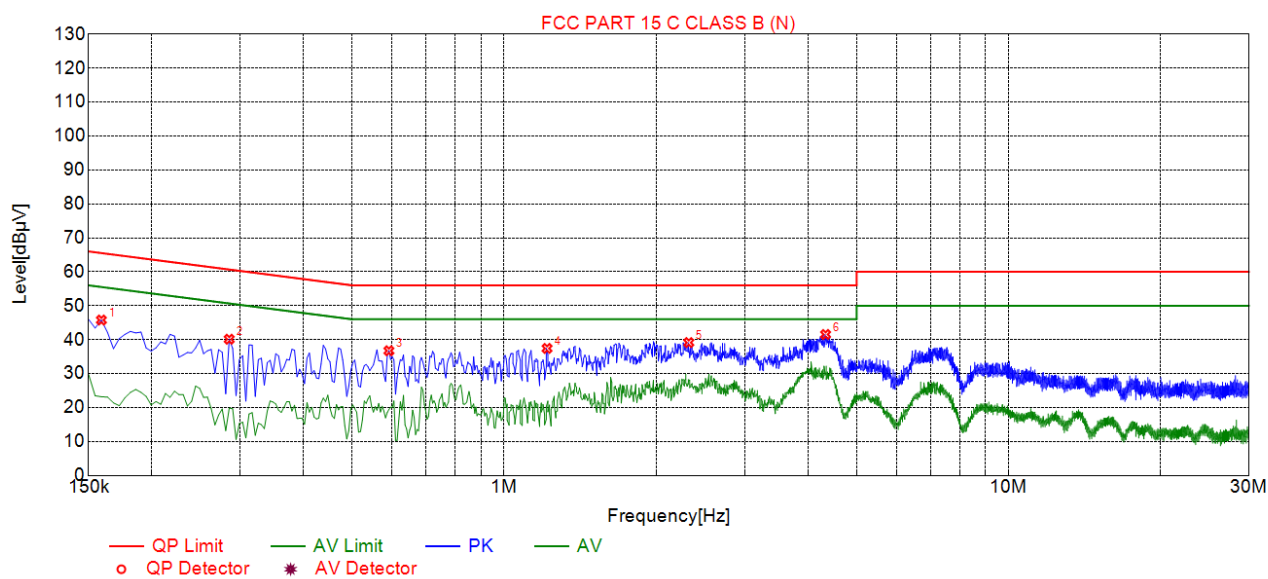
Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



Test Specification: Neutral



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1590	45.78	19.70	65.52	19.74	26.08	PK	N
2	0.2850	40.14	19.73	60.67	20.53	20.41	PK	N
3	0.5910	36.73	19.74	56.00	19.27	16.99	PK	N
4	1.2165	37.42	19.77	56.00	18.58	17.65	PK	N
5	2.3235	39.14	19.88	56.00	16.86	19.26	PK	N
6	4.3395	41.53	19.98	56.00	14.47	21.55	PK	N

Remark: Margin = Limit – Level

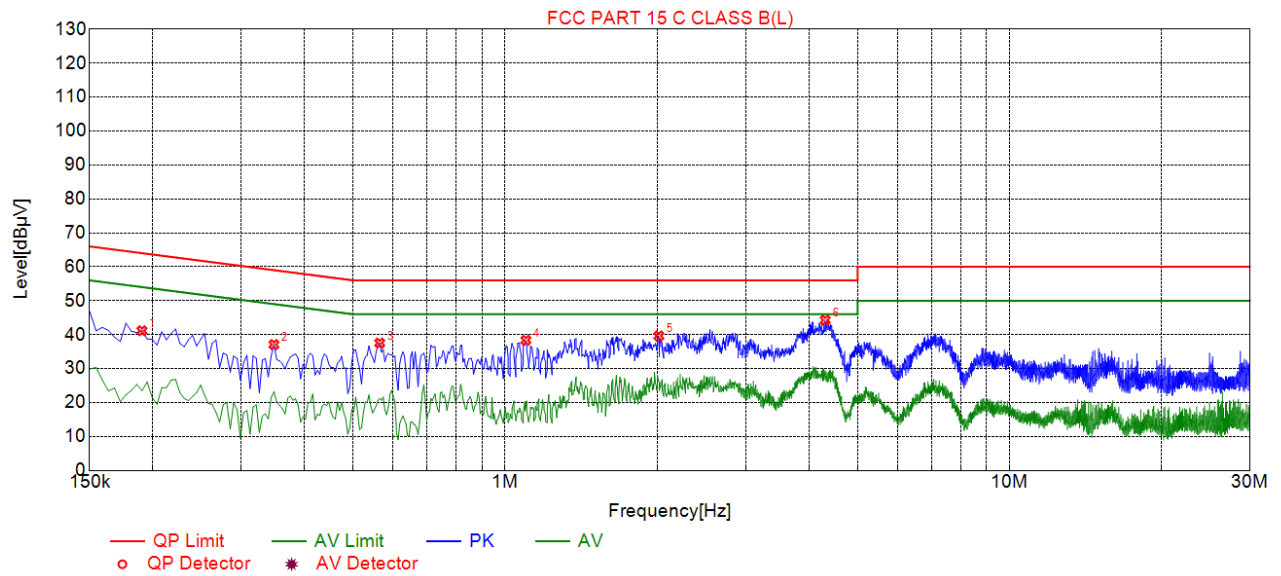
Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



Series Model No.: T3 Ultra

Test Specification: Line



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1905	41.15	19.84	64.01	22.86	21.31	PK	L
2	0.3480	37.10	19.83	59.01	21.91	17.27	PK	L
3	0.5640	37.53	19.86	56.00	18.47	17.67	PK	L
4	1.0995	38.35	19.88	56.00	17.65	18.47	PK	L
5	2.0175	39.63	19.97	56.00	16.37	19.66	PK	L
6	4.3125	44.30	20.09	56.00	11.70	24.21	PK	L

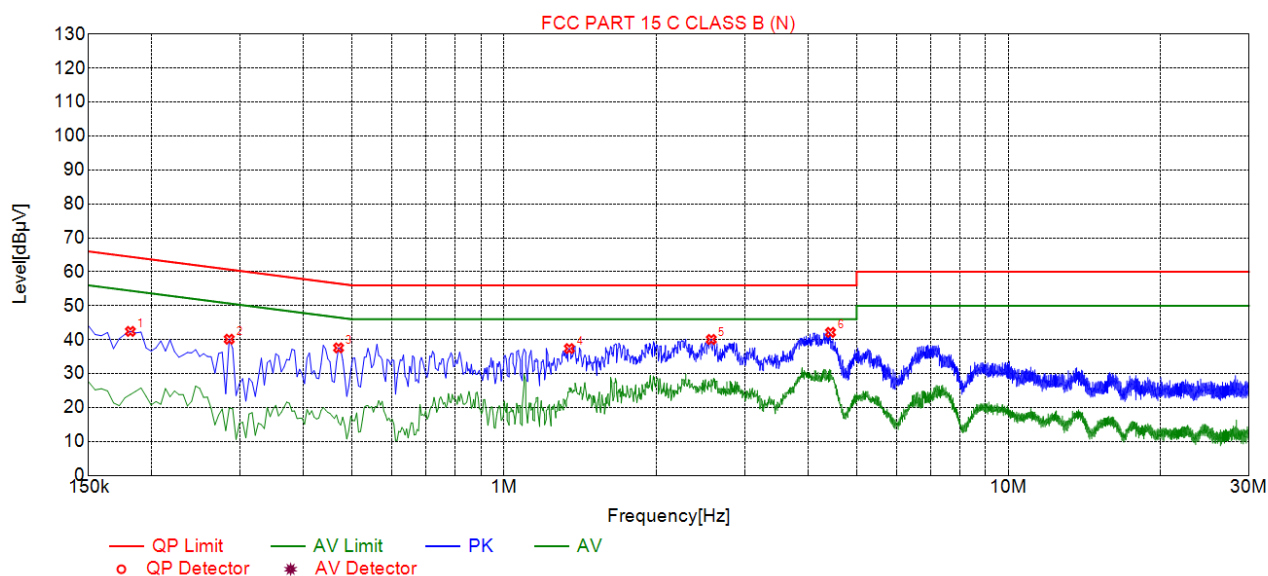
Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



Test Specification: Neutral



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1815	42.43	19.75	64.42	21.99	22.68	PK	N
2	0.2850	40.14	19.73	60.67	20.53	20.41	PK	N
3	0.4695	37.58	19.73	56.52	18.94	17.85	PK	N
4	1.3470	37.38	19.79	56.00	18.62	17.59	PK	N
5	2.5755	40.06	19.90	56.00	15.94	20.16	PK	N
6	4.4385	42.14	19.98	56.00	13.86	22.16	PK	N

Remark: Margin = Limit – Level

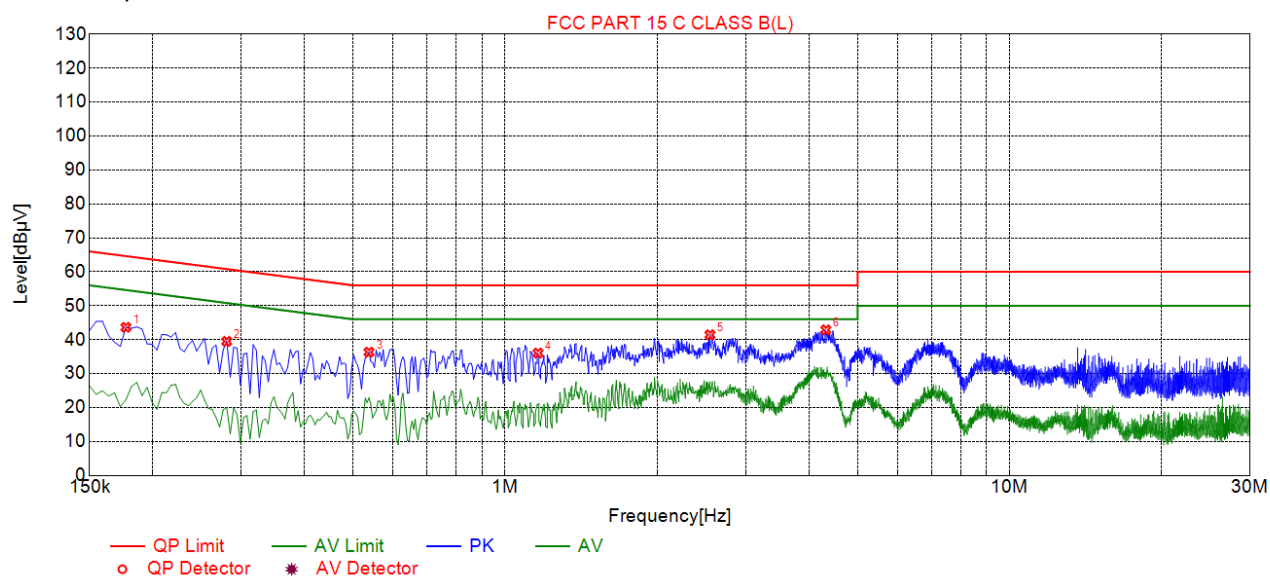
Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



Series Model No.: POP9 mini

Test Specification: Line



Suspected List								
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1770	43.65	19.85	64.63	20.98	23.80	PK	L
2	0.2805	39.49	19.84	60.80	21.31	19.65	PK	L
3	0.5370	36.32	19.85	56.00	19.68	16.47	PK	L
4	1.1625	36.05	19.90	56.00	19.95	16.15	PK	L
5	2.5485	41.44	20.02	56.00	14.56	21.42	PK	L
6	4.3260	42.88	20.09	56.00	13.12	22.79	PK	L

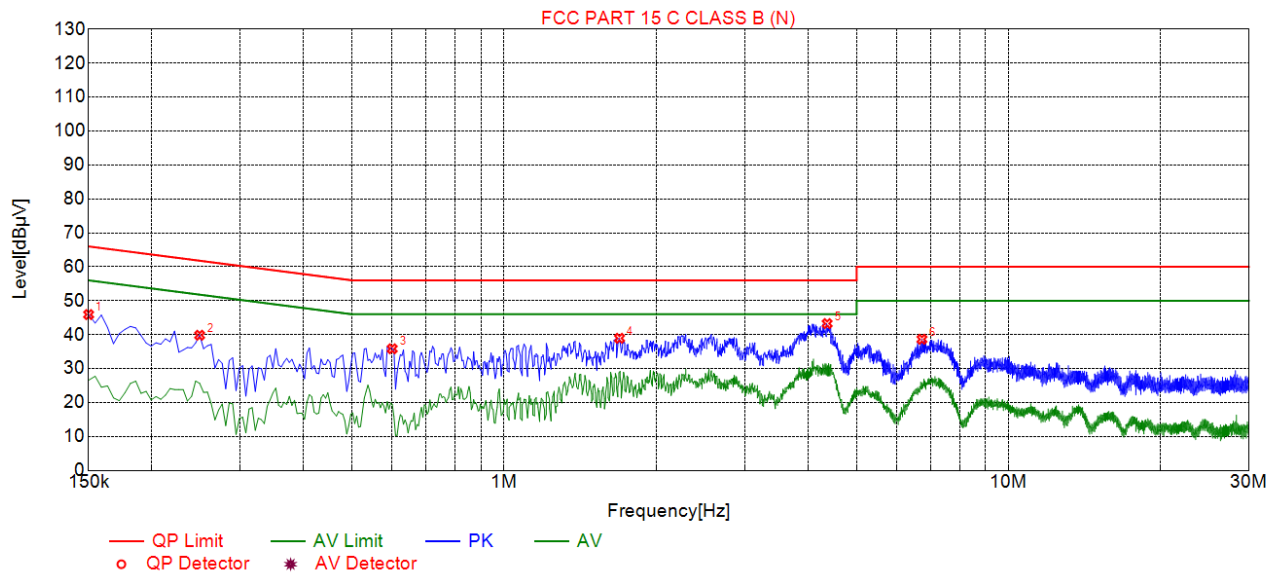
Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



Test Specification: Neutral



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1500	45.92	19.73	66.00	20.08	26.19	PK	N
2	0.2490	39.83	19.73	61.79	21.96	20.10	PK	N
3	0.6000	35.84	19.74	56.00	20.16	16.10	PK	N
4	1.6935	38.94	19.82	56.00	17.06	19.12	PK	N
5	4.3710	43.27	19.98	56.00	12.73	23.29	PK	N
6	6.7380	38.64	19.97	60.00	21.36	18.67	PK	N

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



4.3 Radiated Emissions Measurement

4.3.1 Applied Procedures / Limit

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

Except when the requirements applicable to a given device state otherwise, emissions from license-exempt transmitters shall comply with the field strength limits shown in table below. Additionally, the level of any transmitter emission shall not exceed the level of the transmitter's fundamental emission.

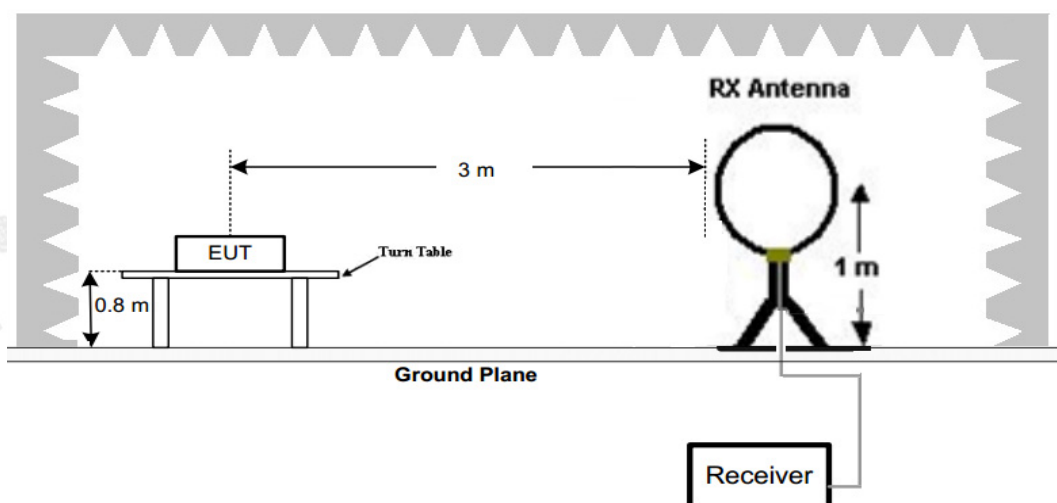
Radiated emission limits

Frequency (MHz)	Distance (Meters)	Radiated (dBμV/m)	Radiated (μV/m)
0.009-0.49	3	$20\log(2400/F(\text{KHz}))+40\log(300/3)$	$2400/F(\text{KHz})$
0.49-1.705	3	$20\log(24000/F(\text{KHz}))+40\log(30/3)$	$24000/F(\text{KHz})$
1.705-30	3	$20\log(30)+40\log(30/3)$	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

4.3.2 Test Setup

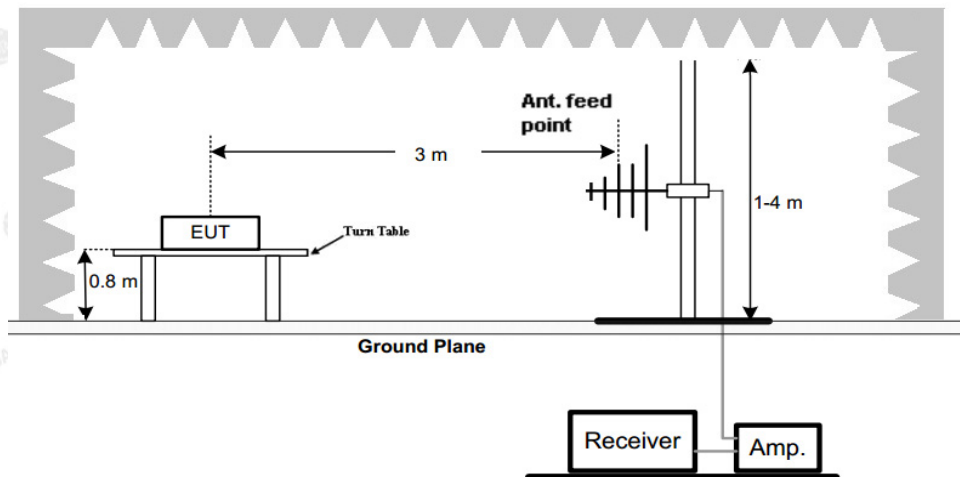
Test Configuration:

- 1) 9 kHz to 30 MHz emissions:

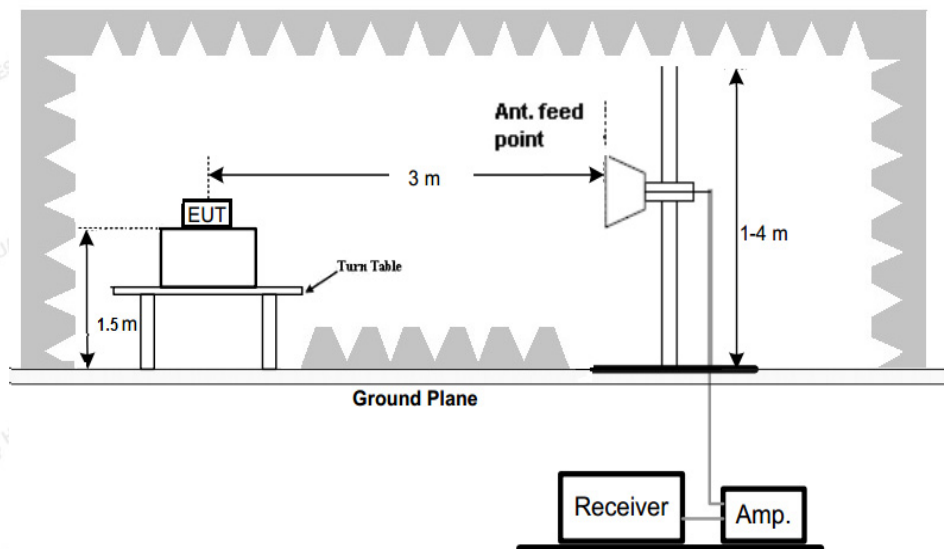




2) 30 MHz to 1 GHz emissions:



3) 1 GHz to 25 GHz emissions:

**Test Procedure**

1. The EUT was placed on turn table which is 0.8m above ground plane for below 1GHz test, and on a low permittivity and low loss tangent turn table which is 1.5m above ground plane for above 1GHz test.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

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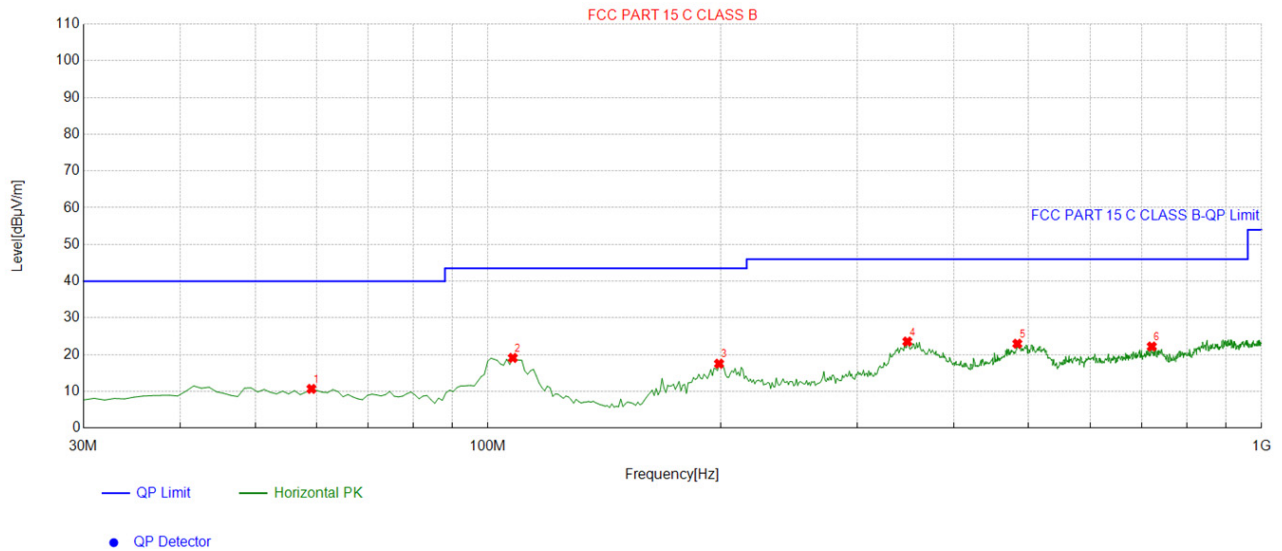
4.3.3 Test Result

Below 1GHz Test Results:

All modes have been tested, only the worst mode of GFSK Low channel TX is reflected.

Test Model No.: S25 mini

Horizontal

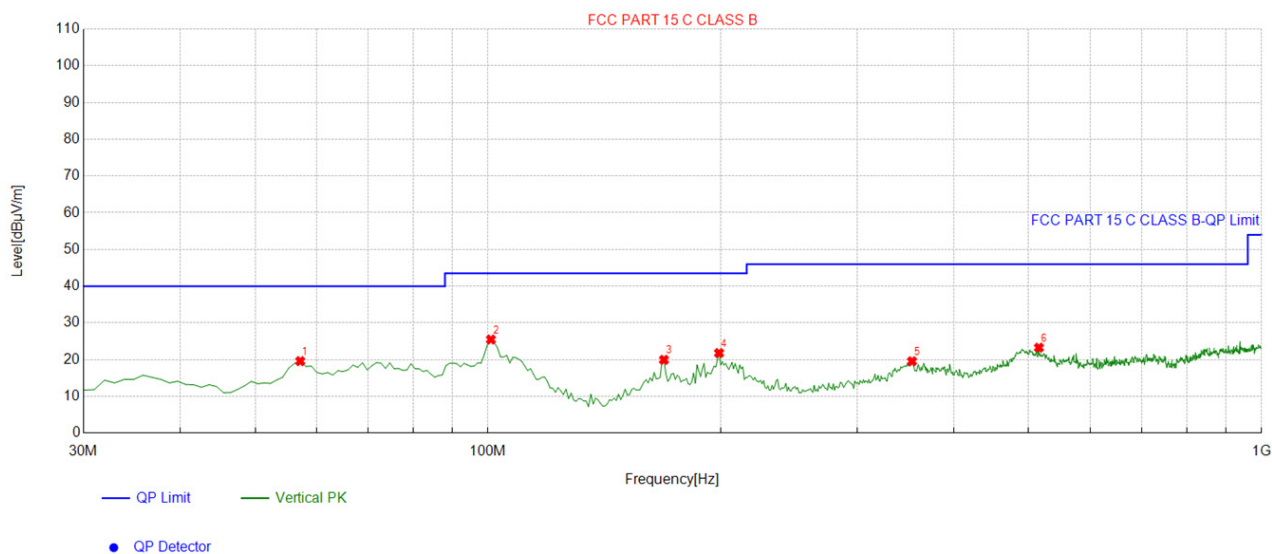


Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	59.129129	-13.54	24.22	10.68	40.00	29.32	100	311	Horizontal
2	107.67767	-14.18	33.29	19.11	43.50	24.39	100	305	Horizontal
3	198.94894	-14.75	32.28	17.53	43.50	25.97	100	279	Horizontal
4	348.47847	-10.06	33.62	23.56	46.00	22.44	100	60	Horizontal
5	483.44344	-8.04	31.01	22.97	46.00	23.03	100	115	Horizontal
6	721.33133	-4.21	26.42	22.21	46.00	23.79	100	254	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Vertical



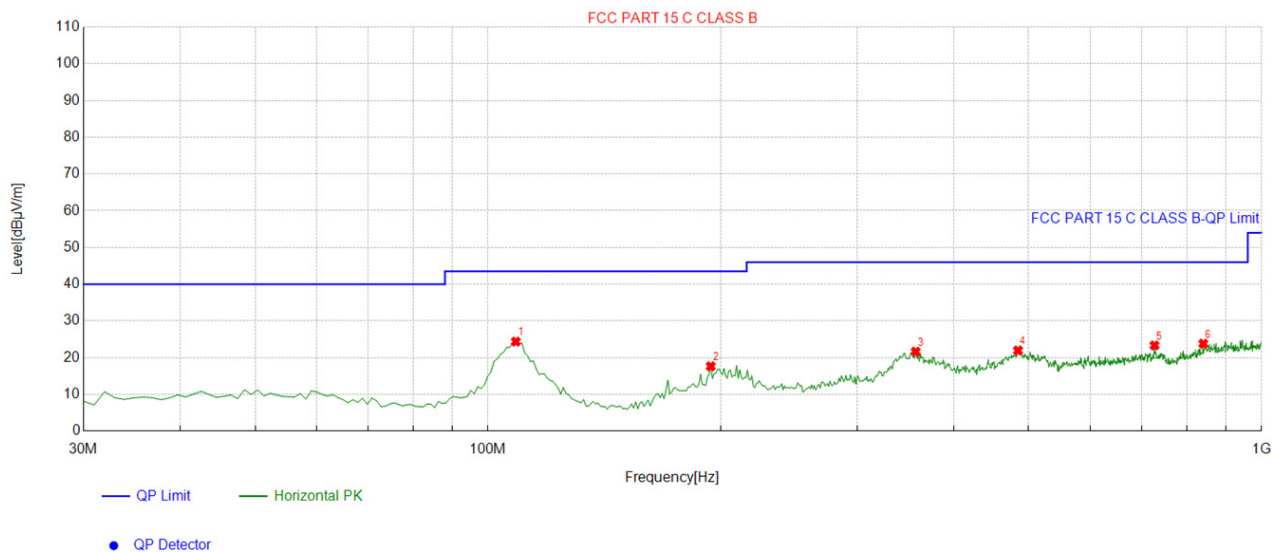
Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	57.187187	-13.76	33.36	19.60	40.00	20.40	100	0	Vertical
2	100.88088	-14.60	40.08	25.48	43.50	18.02	100	254	Vertical
3	168.84884	-17.23	37.18	19.95	43.50	23.55	100	2	Vertical
4	198.94894	-14.75	36.55	21.80	43.50	21.70	100	352	Vertical
5	353.33333	-10.17	29.73	19.56	46.00	26.44	100	0	Vertical
6	515.48548	-7.82	31.08	23.26	46.00	22.74	100	308	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Series Model No.: I16 mini

Horizontal



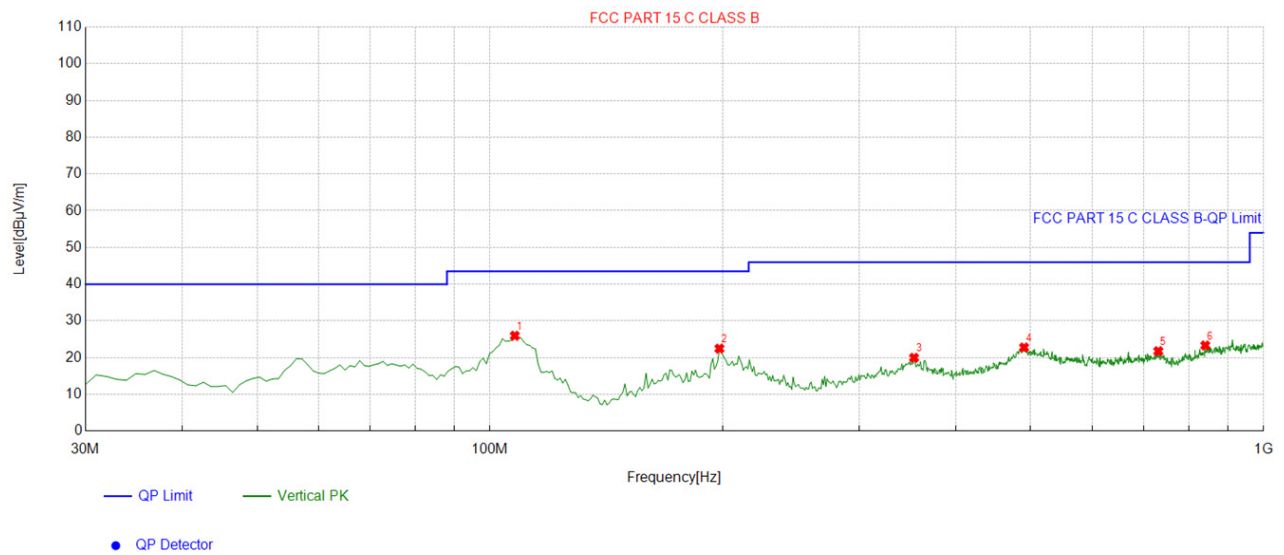
Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	108.64864	-14.02	38.39	24.37	43.50	19.13	100	307	Horizontal
2	194.09409	-15.23	32.88	17.65	43.50	25.85	100	66	Horizontal
3	357.21721	-10.08	31.71	21.63	46.00	24.37	100	86	Horizontal
4	484.41441	-7.98	29.93	21.95	46.00	24.05	100	125	Horizontal
5	727.15715	-3.80	27.13	23.33	46.00	22.67	100	264	Horizontal
6	840.76076	-2.05	25.86	23.81	46.00	22.19	100	91	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Vertical



Suspected List

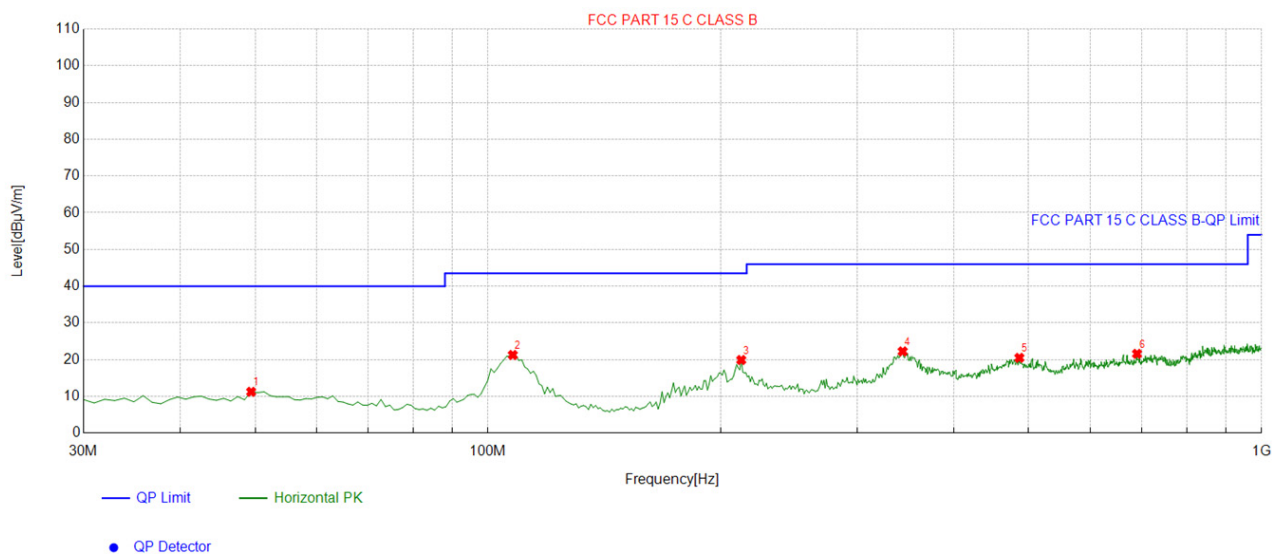
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	107.67767	-14.18	40.14	25.96	43.50	17.54	100	271	Vertical
2	197.97797	-14.86	37.32	22.46	43.50	21.04	100	21	Vertical
3	353.33333	-10.17	30.14	19.97	46.00	26.03	100	358	Vertical
4	490.24024	-7.89	30.66	22.77	46.00	23.23	100	216	Vertical
5	731.04104	-3.47	25.24	21.77	46.00	24.23	100	42	Vertical
6	840.76076	-2.05	25.37	23.32	46.00	22.68	100	59	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Series Model No.: H50 mini

Horizontal

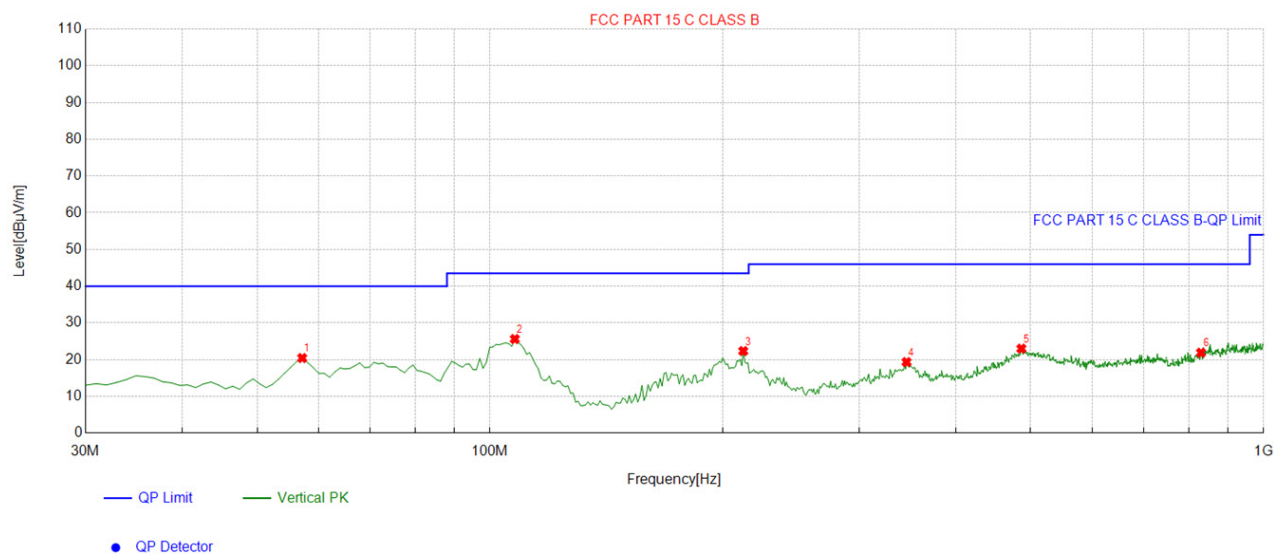


Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	49.419419	-13.14	24.39	11.25	40.00	28.75	100	226	Horizontal
2	107.67767	-14.18	35.45	21.27	43.50	22.23	100	350	Horizontal
3	212.54254	-14.82	34.73	19.91	43.50	23.59	100	37	Horizontal
4	343.62362	-10.19	32.43	22.24	46.00	23.76	100	80	Horizontal
5	486.35635	-7.92	28.42	20.50	46.00	25.50	100	124	Horizontal
6	690.26026	-4.05	25.64	21.59	46.00	24.41	100	196	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Vertical



Suspected List

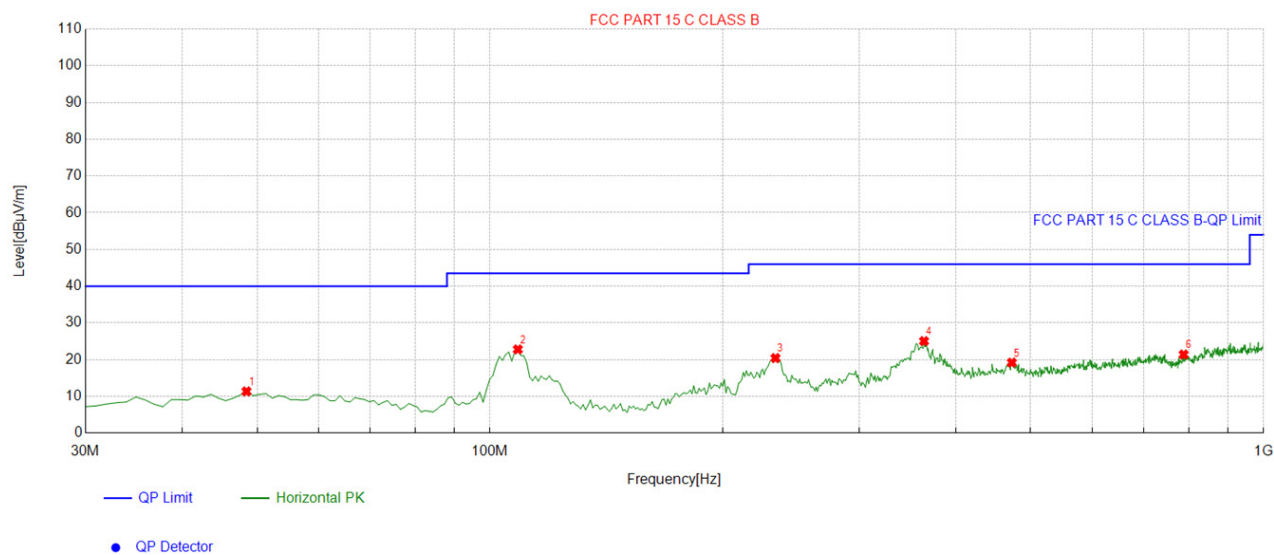
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	57.187187	-13.76	34.20	20.44	40.00	19.56	100	120	Vertical
2	107.67767	-14.18	39.79	25.61	43.50	17.89	100	267	Vertical
3	212.54254	-14.82	37.16	22.34	43.50	21.16	100	326	Vertical
4	345.56556	-10.12	29.47	19.35	46.00	26.65	100	278	Vertical
5	486.35635	-7.92	30.92	23.00	46.00	23.00	100	267	Vertical
6	830.08008	-2.25	24.15	21.90	46.00	24.10	100	304	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Series Model No.: P70 Ultra

Horizontal



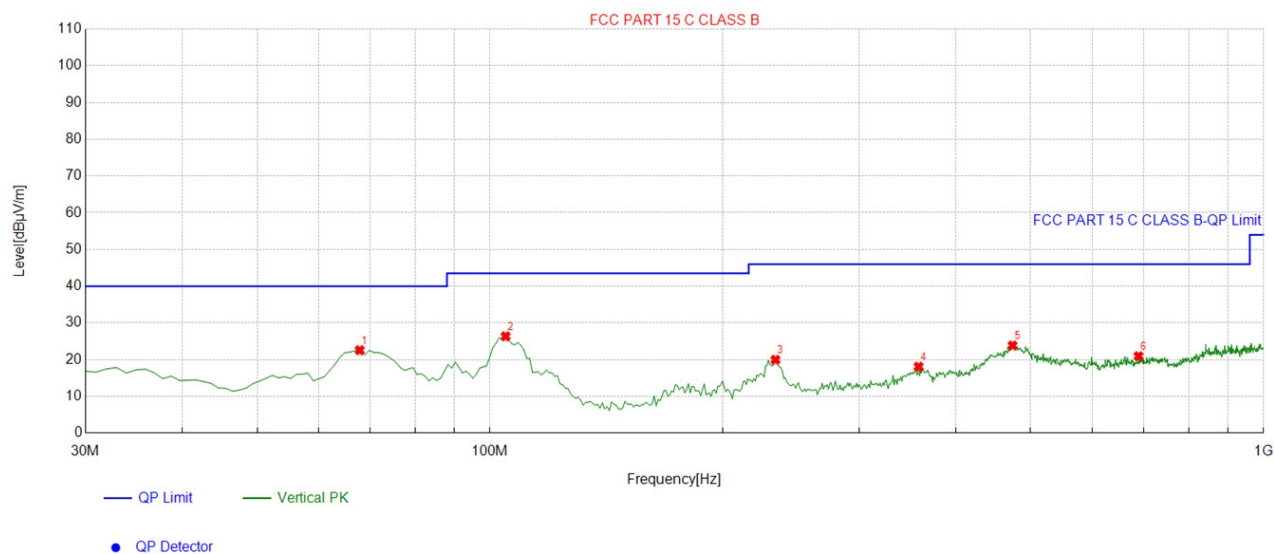
Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.448448	-13.49	24.84	11.35	40.00	28.65	100	110	Horizontal
2	108.64864	-14.02	36.81	22.79	43.50	20.71	100	325	Horizontal
3	233.90390	-13.88	34.31	20.43	46.00	25.57	100	87	Horizontal
4	364.01401	-9.62	34.66	25.04	46.00	20.96	100	73	Horizontal
5	472.76276	-8.35	27.55	19.20	46.00	26.80	100	113	Horizontal
6	788.32832	-3.26	24.66	21.40	46.00	24.60	100	140	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Vertical



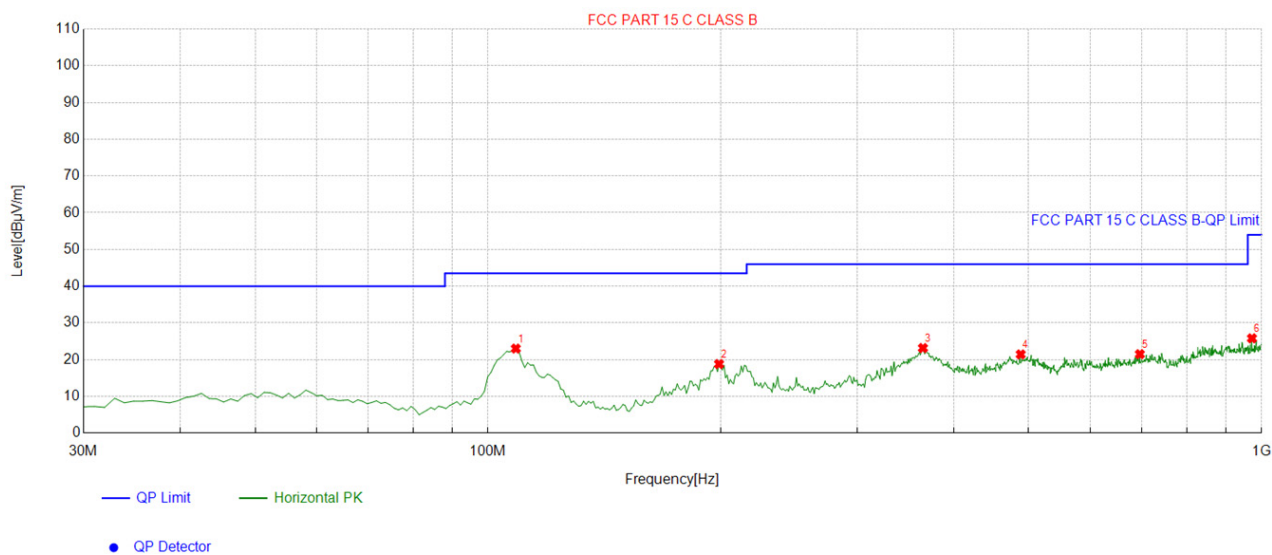
Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	67.867868	-16.02	38.59	22.57	40.00	17.43	100	27	Vertical
2	104.76476	-14.69	41.05	26.36	43.50	17.14	100	328	Vertical
3	233.90390	-13.88	33.85	19.97	46.00	26.03	100	13	Vertical
4	358.18818	-10.00	28.10	18.10	46.00	27.90	100	1	Vertical
5	473.73373	-8.30	32.16	23.86	46.00	22.14	100	19	Vertical
6	689.28928	-4.11	25.06	20.95	46.00	25.05	100	317	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Series Model No.: Reno 12 mini

Horizontal



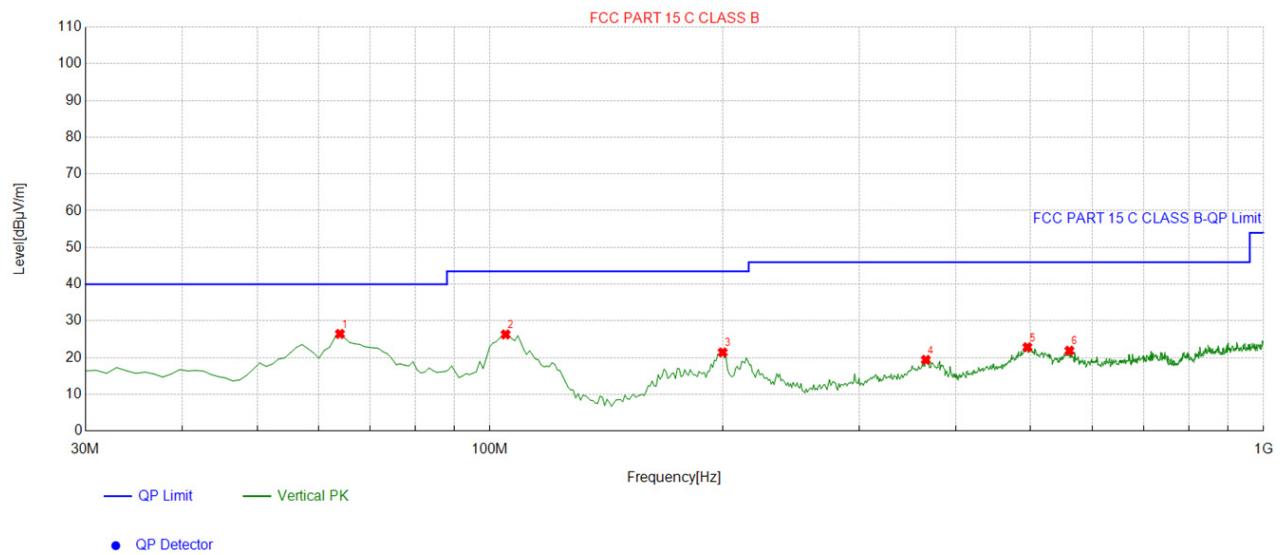
Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	108.64864	-14.02	37.04	23.02	43.50	20.48	100	358	Horizontal
2	198.94894	-14.75	33.56	18.81	43.50	24.69	100	85	Horizontal
3	364.98498	-9.55	32.71	23.16	46.00	22.84	100	62	Horizontal
4	488.29829	-7.91	29.34	21.43	46.00	24.57	100	152	Horizontal
5	696.08608	-4.24	25.74	21.50	46.00	24.50	100	33	Horizontal
6	971.84184	-0.66	26.46	25.80	54.00	28.20	100	311	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Vertical



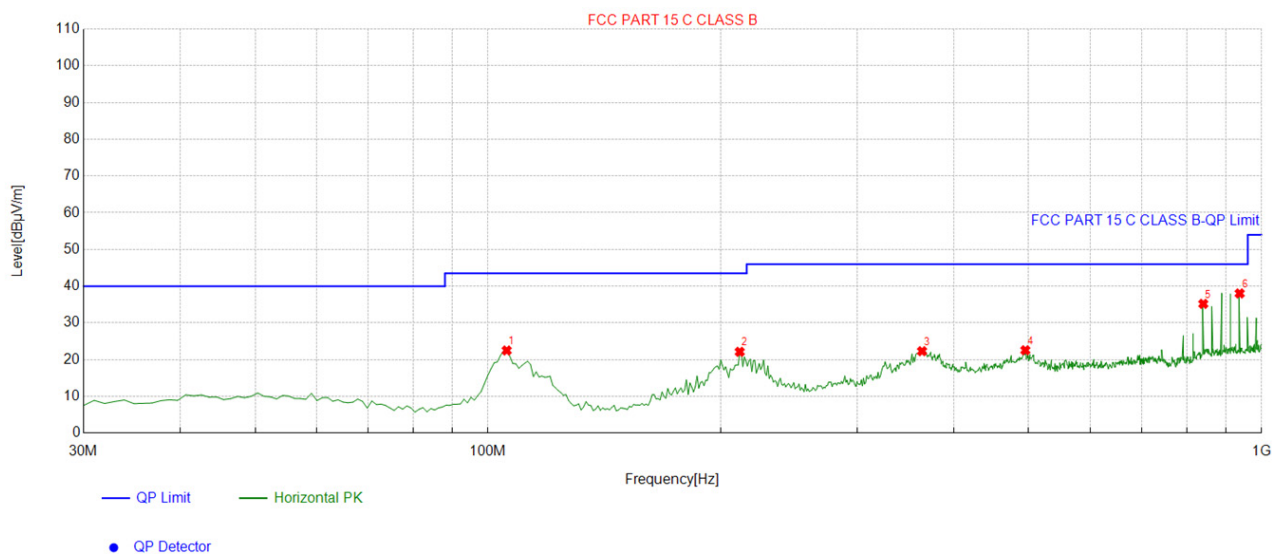
Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	63.983984	-14.38	40.84	26.46	40.00	13.54	100	223	Vertical
2	104.76476	-14.69	41.01	26.32	43.50	17.18	100	234	Vertical
3	199.91992	-15.09	36.52	21.43	43.50	22.07	100	49	Vertical
4	365.95595	-9.63	29.03	19.40	46.00	26.60	100	5	Vertical
5	495.09509	-7.84	30.68	22.84	46.00	23.16	100	165	Vertical
6	561.12112	-6.36	28.25	21.89	46.00	24.11	100	119	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Series Model No.: T3 Ultra

Horizontal



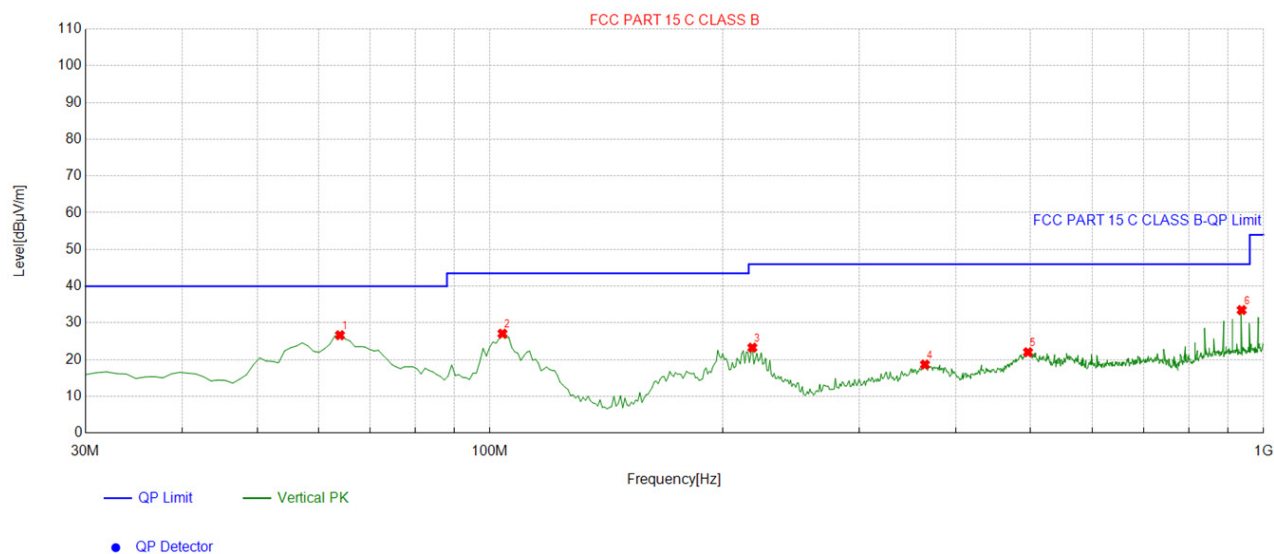
Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	105.73573	-14.49	36.99	22.50	43.50	21.00	100	319	Horizontal
2	211.57157	-14.85	36.98	22.13	43.50	21.37	100	85	Horizontal
3	364.01401	-9.62	31.92	22.30	46.00	23.70	100	90	Horizontal
4	495.09509	-7.84	30.40	22.56	46.00	23.44	100	143	Horizontal
5	840.76076	-2.05	37.24	35.19	46.00	10.81	100	39	Horizontal
6	936.88688	-1.35	39.38	38.03	46.00	7.97	100	296	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Vertical



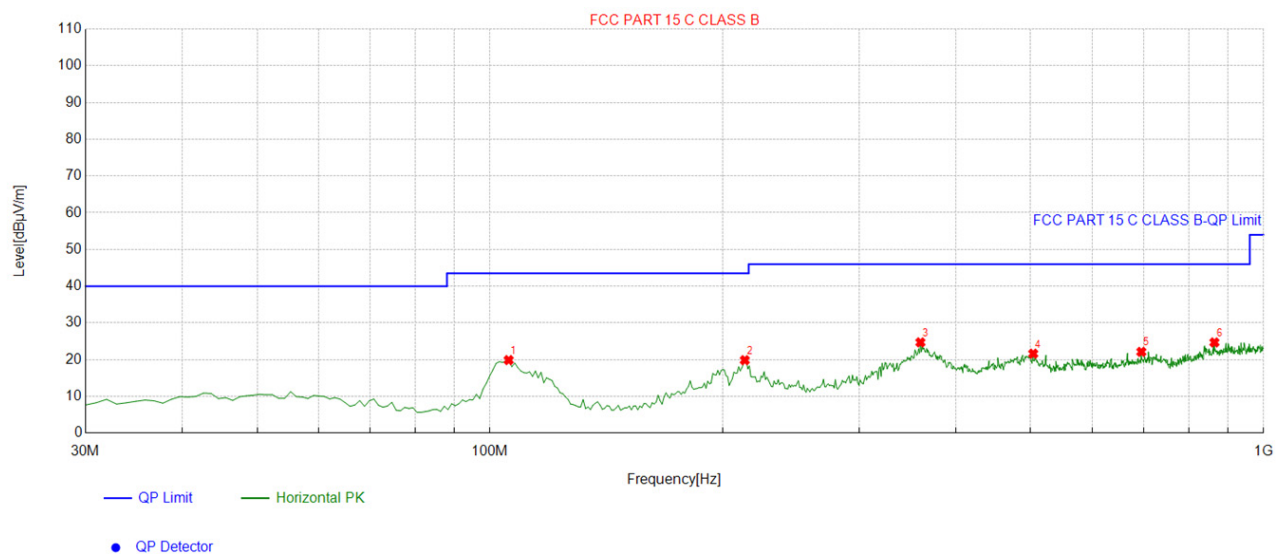
Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	63.983984	-14.38	41.03	26.65	40.00	13.35	100	85	Vertical
2	103.79379	-14.69	41.77	27.08	43.50	16.42	100	246	Vertical
3	218.36836	-14.63	37.89	23.26	46.00	22.74	100	219	Vertical
4	364.98498	-9.55	28.21	18.66	46.00	27.34	100	222	Vertical
5	496.06606	-7.90	29.92	22.02	46.00	23.98	100	120	Vertical
6	936.88688	-1.35	34.85	33.50	46.00	12.50	100	311	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Series Model No.: POP9 mini

Horizontal



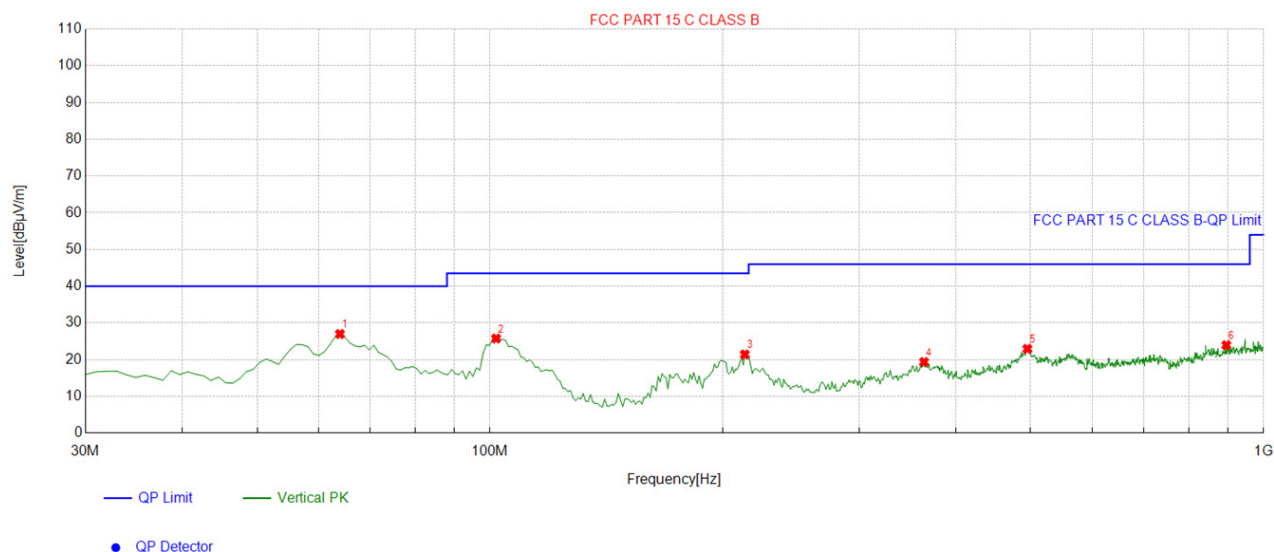
Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	105.73573	-14.49	34.38	19.89	43.50	23.61	100	1	Horizontal
2	213.51351	-14.79	34.65	19.86	43.50	23.64	100	82	Horizontal
3	360.13013	-9.86	34.56	24.70	46.00	21.30	100	68	Horizontal
4	503.83383	-8.20	29.83	21.63	46.00	24.37	100	132	Horizontal
5	695.11511	-4.19	26.32	22.13	46.00	23.87	100	57	Horizontal
6	864.06406	-1.48	26.17	24.69	46.00	21.31	100	91	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



Vertical



Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	63.983984	-14.38	41.36	26.98	40.00	13.02	100	130	Vertical
2	101.85185	-14.86	40.61	25.75	43.50	17.75	100	182	Vertical
3	213.51351	-14.79	36.21	21.42	43.50	22.08	100	11	Vertical
4	364.01401	-9.62	28.99	19.37	46.00	26.63	100	24	Vertical
5	495.09509	-7.84	30.78	22.94	46.00	23.06	100	163	Vertical
6	895.13513	-1.11	25.06	23.95	46.00	22.05	100	172	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Harmonics and Spurious Emissions

Frequency Range (9kHz-30MHz)

Frequency (MHz)	Level@3m (dBμV/m)	Limit@3m (dBμV/m)
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Note:1. Emission Level=Reading+ Cable loss+ Antenna factor-Amp factor.

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.

**For 1GHz to 25GHz**

CH Low (2402MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4804	52.28	-3.65	48.63	74.00	-25.37	peak
4804	43.95	-3.65	40.30	54.00	-13.70	AVG
7206	51.67	-0.95	50.72	74.00	-23.28	peak
7206	41.76	-0.95	40.81	54.00	-13.19	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4804	53.06	-3.65	49.41	74.00	-24.59	peak
4804	41.73	-3.65	38.08	54.00	-15.92	AVG
7206	51.07	-0.95	50.12	74.00	-23.88	peak
7206	39.49	-0.95	38.54	54.00	-15.46	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						



CH Middle (2440MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4880.00	53.71	-3.54	50.17	74.00	-23.83	peak
4880.00	42.87	-3.54	39.33	54.00	-14.67	AVG
7320.00	50.48	-0.81	49.67	74.00	-24.33	peak
7320.00	40.06	-0.81	39.25	54.00	-14.75	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4880.00	53.51	-3.54	49.97	74.00	-24.03	peak
4880.00	41.20	-3.54	37.66	54.00	-16.34	AVG
7320.00	49.65	-0.81	48.84	74.00	-25.16	peak
7320.00	40.03	-0.81	39.22	54.00	-14.78	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						



CH High (2480MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960	55.59	-3.43	52.16	74.00	-21.84	peak
4960	43.64	-3.44	40.20	54.00	-13.80	AVG
7440	52.04	-0.77	51.27	74.00	-22.73	peak
7440	42.69	-0.77	41.92	54.00	-12.08	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960	52.34	-3.43	48.91	74.00	-25.09	peak
4960	40.93	-3.44	37.49	54.00	-16.51	AVG
7440	51.88	-0.77	51.11	74.00	-22.89	peak
7440	41.72	-0.77	40.95	54.00	-13.05	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						



Series Model No.: I16 mini

CH High (2480MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960	52.81	-3.43	49.38	74.00	-24.62	peak
4960	41.93	-3.44	38.49	54.00	-15.51	AVG
7440	51.15	-0.77	50.38	74.00	-23.62	peak
7440	41.19	-0.77	40.42	54.00	-13.58	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960	51.88	-3.43	48.45	74.00	-25.55	peak
4960	41.51	-3.44	38.07	54.00	-15.93	AVG
7440	49.80	-0.77	49.03	74.00	-24.97	peak
7440	40.72	-0.77	39.95	54.00	-14.05	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						



Series Model No.: H50 mini

CH High (2480MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960	52.72	-3.43	49.29	74.00	-24.71	peak
4960	42.63	-3.44	39.19	54.00	-14.81	AVG
7440	50.43	-0.77	49.66	74.00	-24.34	peak
7440	41.14	-0.77	40.37	54.00	-13.63	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960	51.20	-3.43	47.77	74.00	-26.23	peak
4960	40.99	-3.44	37.55	54.00	-16.45	AVG
7440	51.36	-0.77	50.59	74.00	-23.41	peak
7440	40.97	-0.77	40.20	54.00	-13.80	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						



Series Model No.: P70 Ultra

CH High (2480MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960	55.23	-3.43	51.80	74.00	-22.20	peak
4960	42.17	-3.44	38.73	54.00	-15.27	AVG
7440	50.86	-0.77	50.09	74.00	-23.91	peak
7440	42.27	-0.77	41.50	54.00	-12.50	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960	53.27	-3.43	49.84	74.00	-24.16	peak
4960	41.82	-3.44	38.38	54.00	-15.62	AVG
7440	50.07	-0.77	49.30	74.00	-24.70	peak
7440	39.81	-0.77	39.04	54.00	-14.96	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						



Series Model No.: Reno 12 mini

CH High (2480MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960	53.68	-3.43	50.25	74.00	-23.75	peak
4960	43.83	-3.44	40.39	54.00	-13.61	AVG
7440	52.39	-0.77	51.62	74.00	-22.38	peak
7440	40.20	-0.77	39.43	54.00	-14.57	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960	52.54	-3.43	49.11	74.00	-24.89	peak
4960	40.57	-3.44	37.13	54.00	-16.87	AVG
7440	51.32	-0.77	50.55	74.00	-23.45	peak
7440	41.48	-0.77	40.71	54.00	-13.29	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						



Series Model No.: T3 Ultra

CH High (2480MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960	52.64	-3.43	49.21	74.00	-24.79	peak
4960	41.68	-3.44	38.24	54.00	-15.76	AVG
7440	51.20	-0.77	50.43	74.00	-23.57	peak
7440	41.92	-0.77	41.15	54.00	-12.85	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960	52.32	-3.43	48.89	74.00	-25.11	peak
4960	40.20	-3.44	36.76	54.00	-17.24	AVG
7440	50.78	-0.77	50.01	74.00	-23.99	peak
7440	41.46	-0.77	40.69	54.00	-13.31	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						



Series Model No.: POP9 mini

CH High (2480MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960	54.67	-3.43	51.24	74.00	-22.76	peak
4960	42.67	-3.44	39.23	54.00	-14.77	AVG
7440	52.00	-0.77	51.23	74.00	-22.77	peak
7440	40.88	-0.77	40.11	54.00	-13.89	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4960	52.32	-3.43	48.89	74.00	-25.11	peak
4960	42.79	-3.44	39.35	54.00	-14.65	AVG
7440	50.66	-0.77	49.89	74.00	-24.11	peak
7440	40.78	-0.77	40.01	54.00	-13.99	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.
- (7) All modes of operation were investigated and the worst-case emissions are reported.

**Radiated Band Edge Test:**

Operation Mode: TX CH Low (2402MHz)

Horizontal:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310.00	54.24	-5.81	48.43	74	-25.57	peak
2310.00	/	-5.81	/	54	/	AVG
2390.00	53.56	-5.84	47.72	74	-26.28	peak
2390.00	/	-5.84	/	54	/	AVG
2400.00	53.38	-5.84	47.54	74	-26.46	peak
2400.00	/	-5.84	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency (MHz)	Reading Result (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2310.00	55.39	-5.81	49.58	74	-24.42	peak
2310.00	/	-5.81	/	54	/	AVG
2390.00	54.57	-5.84	48.73	74	-25.27	peak
2390.00	/	-5.84	/	54	/	AVG
2400.00	50.47	-5.84	44.63	74	-29.37	peak
2400.00	/	-5.84	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						



Operation Mode: TX CH High (2480MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	55.07	-5.81	49.26	74	-24.74	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	53.61	-6.06	47.55	74	-26.45	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	53.2	-5.81	47.39	74	-26.61	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	51.2	-6.06	45.14	74	-28.86	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						



All modes have been tested, and the report only reflects the worst mode:

Series Model No.: I16 mini

Operation Mode: TX CH High (2480MHz)

Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.50	54	-5.81	48.19	74	-25.81	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	51.75	-6.06	45.69	74	-28.31	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.50	54.93	-5.81	49.12	74	-24.88	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	51.96	-6.06	45.9	74	-28.1	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						



Series Model No.: H50 mini

Operation Mode: TX CH High (2480MHz)

Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.50	54.11	-5.81	48.3	74	-25.7	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	52.03	-6.06	45.97	74	-28.03	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.50	55.09	-5.81	49.28	74	-24.72	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	52.79	-6.06	46.73	74	-27.27	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						



Series Model No.: P70 Ultra

Operation Mode: TX CH High (2480MHz)

Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.50	55.01	-5.81	49.2	74	-24.8	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	51.98	-6.06	45.92	74	-28.08	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.50	53.66	-5.81	47.85	74	-26.15	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	51.61	-6.06	45.55	74	-28.45	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						



Series Model No.: Reno 12 mini

Operation Mode: TX CH High (2480MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	54.05	-5.81	48.24	74	-25.76	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	52.71	-6.06	46.65	74	-27.35	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	55.33	-5.81	49.52	74	-24.48	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	52.92	-6.06	46.86	74	-27.14	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						



Series Model No.: T3 Ultra

Operation Mode: TX CH High (2480MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	54.61	-5.81	48.8	74	-25.2	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	51.26	-6.06	45.2	74	-28.8	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	54.76	-5.81	48.95	74	-25.05	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	51.76	-6.06	45.7	74	-28.3	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						



Series Model No.: POP9 mini

Operation Mode: TX CH High (2480MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	53.41	-5.81	47.6	74	-26.4	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	52.42	-6.06	46.36	74	-27.64	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.50	53.25	-5.81	47.44	74	-26.56	peak
2483.50	/	-5.81	/	54	/	AVG
2500.00	52.78	-6.06	46.72	74	-27.28	peak
2500.00	/	-6.06	/	54	/	AVG
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.						
Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.						

Remark:

1. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
2. In restricted bands of operation, the spurious emissions below the permissible value more than 20dB.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



4.4 Maximum Output Power Measurement

4.4.1 Limit

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 Test Procedure

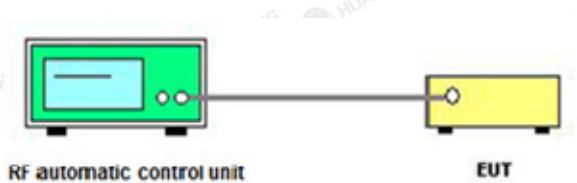
The maximum peak conducted output power may be measured using a broadband peak RF automatic control unit. The RF automatic control unit shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

The maximum Average conducted output power may be measured using a wideband RF automatic control unit with a thermocouple detector or equivalent. The RF automatic control unit shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

4.4.3 Deviation From Standard

No deviation.

4.4.4 Test Setup



4.4.5 Test Results

Channel	Channel Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Result
Low	2402	1.83	30	Pass
Middle	2440	2.51		Pass
High	2480	2.90		Pass

Note: 1.The test results including the cable lose.



4.5 Power Spectral Density

4.5.1 Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

4.5.2 Test Procedure

Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.

Set the RBW =10 kHz.

Set the VBW =30 KHz.

Set the span to 1.5 times the DTS channel bandwidth.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum power level.

If measured value exceeds limit, reduce RBW(no less than 3 kHz)and repeat.

The resulting peak PSD level must be 8 dBm.

4.5.3 Deviation From Standard

No deviation.

4.5.4 Test Setup





4.5.5 Test Results

Channel	Channel frequency (MHz)	Test Result (dBm/10kHz)	10log (3/10)	Test Result (dBm/3kHz)	Limit (dBm/3KHz)	Result
Low	2402	-8.51	-5.23	-13.74	8.00	Pass
Middle	2440	-7.88	-5.23	-13.11		Pass
High	2480	-7.38	-5.23	-12.61		Pass
Note: PSD test result (dBm/3kHz)= PSD test result (dBm/10kHz)+10log(3/10)						

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