



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: AKUVOX (XIAMEN) NETWORKS CO., LTD.

Address: 10/F, No.56, Software Park II , Xiamen, China

FCC ID: 2AHCR-E16SV1

Product Name: Door Phone/Access Control Terminal

Model Number: E16S, A05S

Standard(s): 47 CFR Part 15, Subpart C(15.225)
ANSI C63.10-2013

The above equipment has been tested and found compliance with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: CR21110094-00A

Date Of Issue: 2022-04-03

Reviewed By: Sun Zhong

Sun Zhong

Title: Manager

Test Laboratory: China Certification ICT Co., Ltd (Dongguan)

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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Door Phone/Access Control Terminal
EUT Model:	E16S
Multiple Model:	A05S
Operation Frequency:	13.56 MHz
Modulation Type:	ASK
Rated Input Voltage:	DC 12V from adapter or 48V from POE
Serial Number:	CR21110094-S1
EUT Received Date:	2021.11.29
EUT Received Status:	Good
Note: The Multiple models are electrically identical with Test model, please refer to the declaration letter for more detail, which was provided by manufacturer.	

Operation Frequency Detail:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	13.56	/	/

Antenna Information Detail ▲:

Antenna Manufacturer	Antenna Type	input impedance (Ohm)	Antenna Gain /Frequency Range	§15.203 Requirement
AKUVOX (XIAMEN) NETWORKS CO., LTD.	PCB	50	Unknow	Compliance
The Method of §15.203 Compliance: ☒ Antenna must be permanently attached to the unit. ☐ Antenna must use a unique type of connector to attach to the EUT. ☐ Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.				

Accessory Information:

No.

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.	
Equipment Modifications:	No	
EUT Exercise Software:	No	
Engineering Mode was provided by manufacturer▲. The maximum power was configured default setting.		
Channel	Frequency (MHz)	Power Level Setting
1	13.56	Default

1.2.2 Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
GOSPELL DIGITAL TECHNOLOGY CO.,LTD	POE	G0720-480-050	2014-0002925
ORIENTAL HERO ELE.FTY	Adapter	OH-1015A1201000U3-UL	96DG E230964
Unknown	Load	Unknown	Load1
Unknown	Load	Unknown	Load2
TOTOLINK	Wireless Router	LR1200	LR1200155P00167
LAND1	NFC Card	EINOLDA	Card1

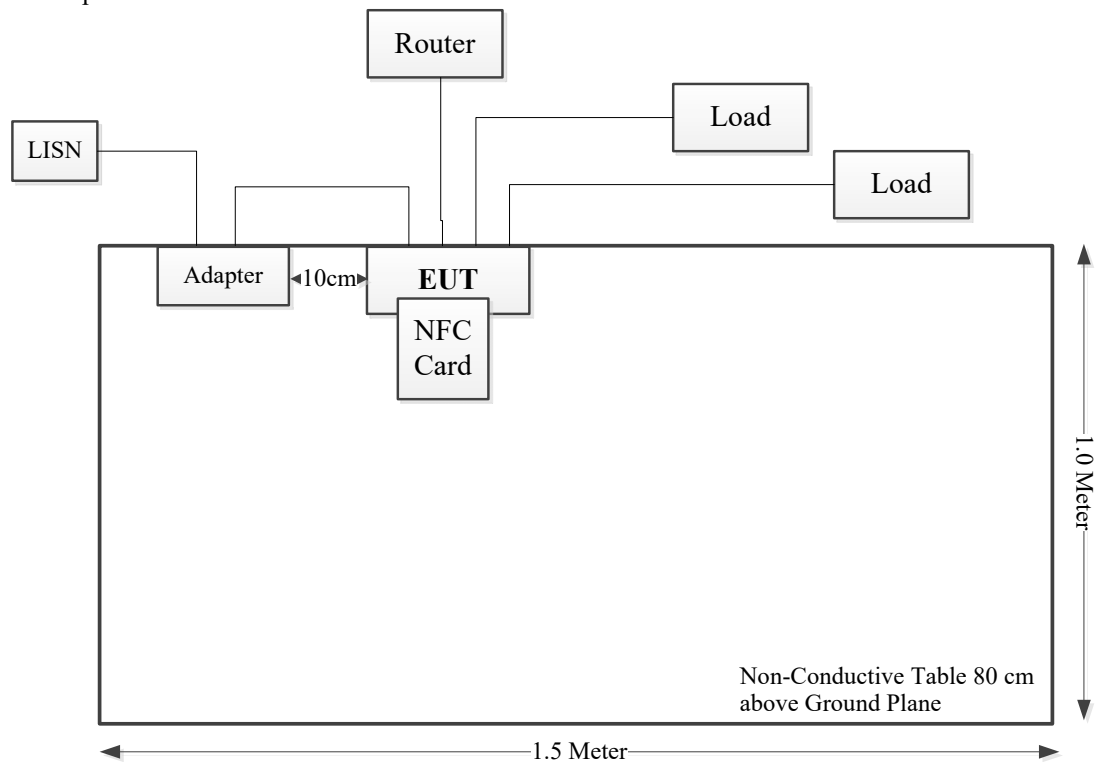
1.2.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
RJ45 Cable	No	No	3	POE	Router
RJ45 Cable	No	No	1	EUT	POE
RJ45 Cable	No	No	3	EUT	Router
Power Cable	No	Yes	1.2	EUT	Adapter
Power Cable	No	No	1.2	POE	LISN
Cable	No	No	3	EUT	Load
Cable	No	No	3	EUT	Load

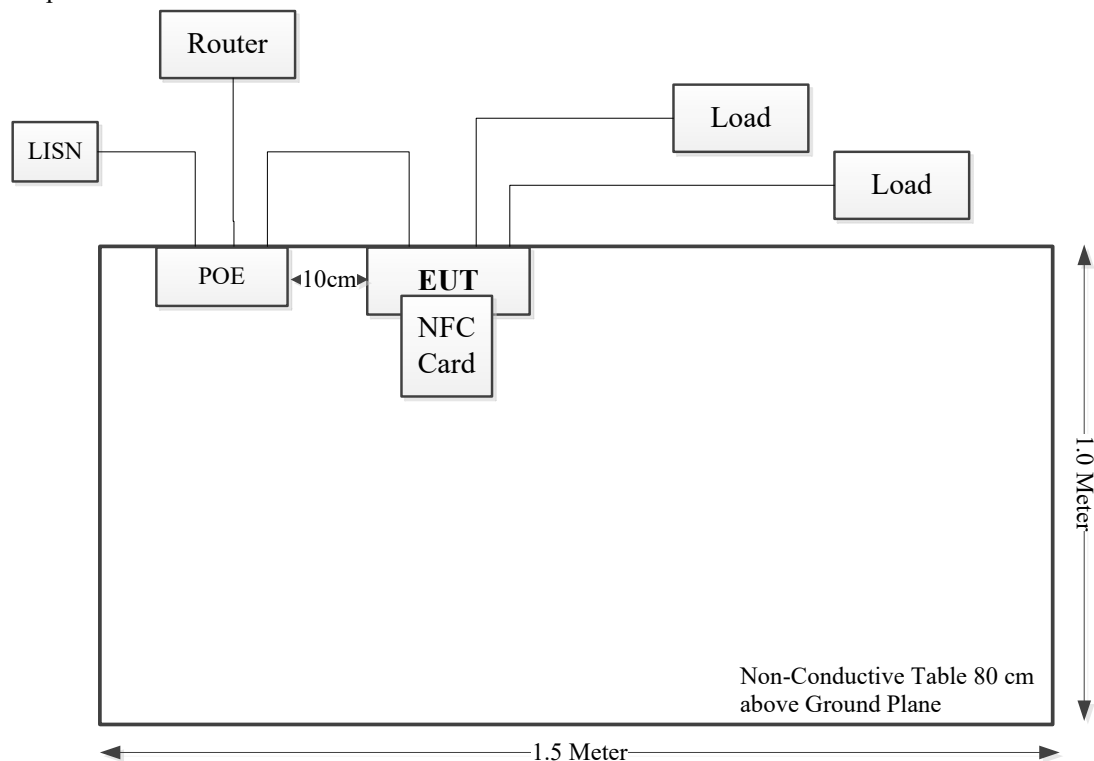
1.2.4 Block Diagram of Test Setup

AC line conducted emissions:

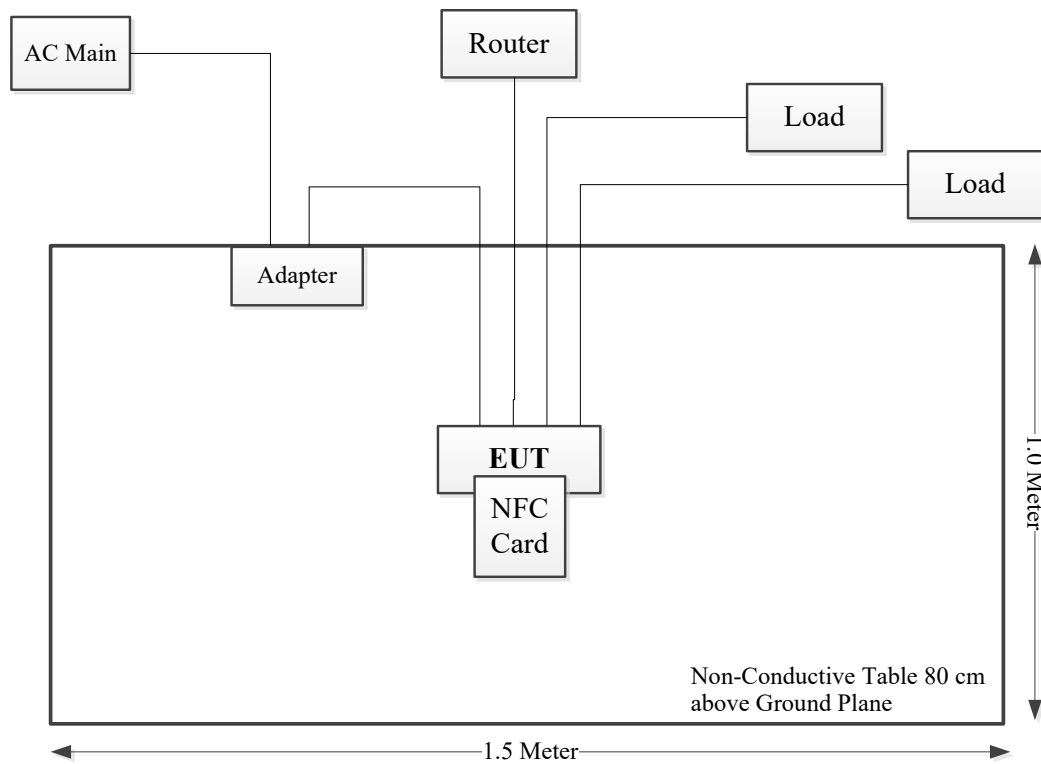
AC/DC Adapter Mode:



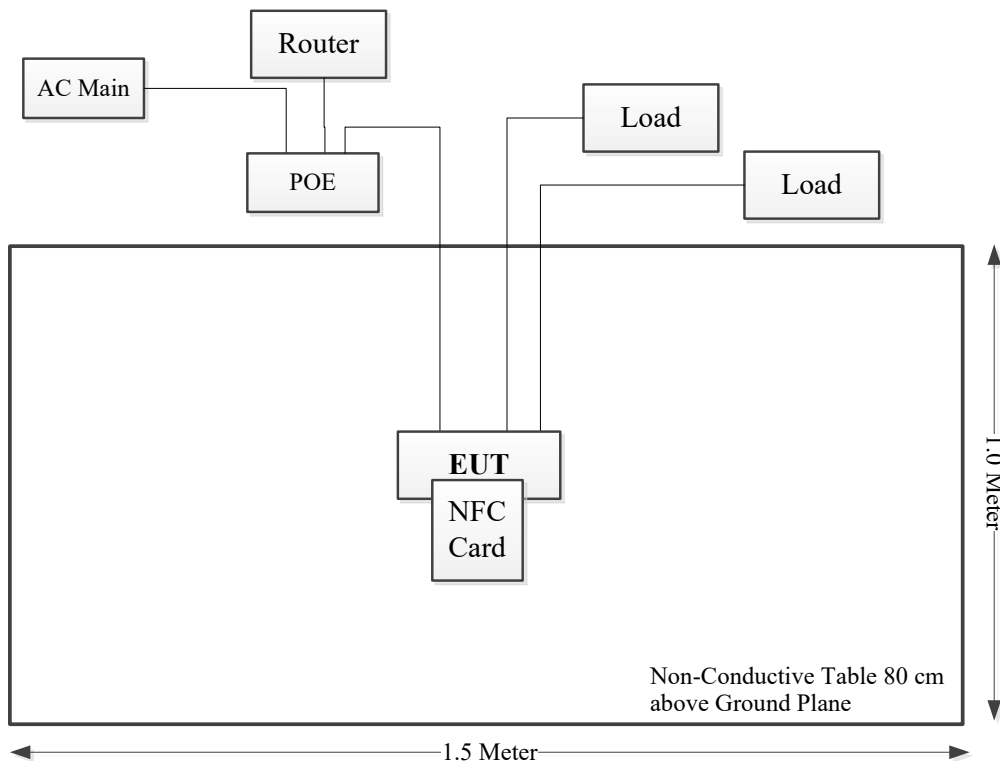
POE Adapter Mode:



Radiated Emission:
AC/DC Adapter Mode:



POE Adapter Mode:



1.3 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	$\pm 5\%$
Unwanted Emissions, radiated	9kHz~30MHz: 4.12dB 30M~200MHz: 4.15 dB, 200M~1GHz: 5.61 dB, 1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB, 18G~26.5G: 5.47 dB, 26.5G~40G: 5.63 dB
Temperature	$\pm 1^{\circ}\text{C}$
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 0.4\%$
Duty Cycle	1%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC§15.203	Antenna Requirement	Compliant
FCC§15.207 (a)	Conducted Emissions	Compliant
§15.225 §15.209 §15.205	Radiated Emission Test	Compliant
§15.225(e)	Frequency Stability	Compliant
§15.215(c)	20 dB Bandwidth	Compliant

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 Applicable Standard

FCC§15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	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.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

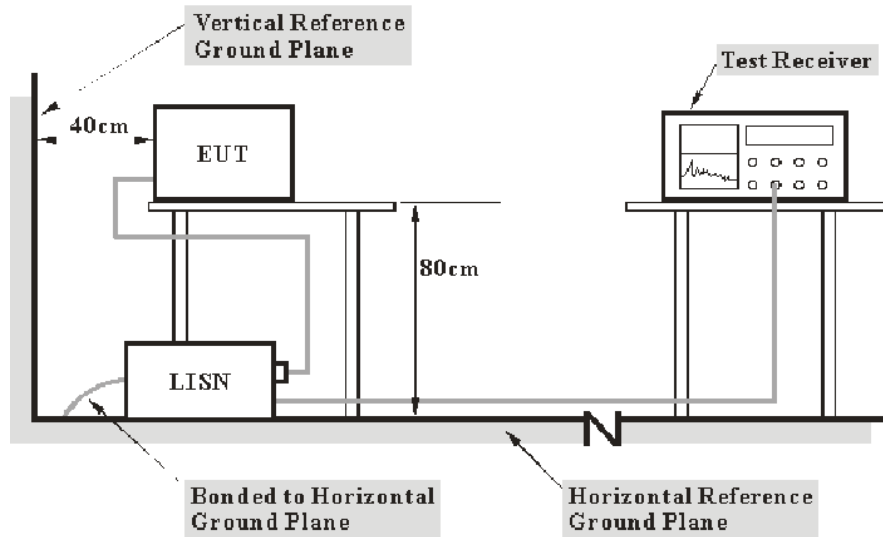
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μ V within the frequency band 535-1705 kHz, as measured using a 50 μ H/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

3.1.2 EUT Setup



Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

3.1.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

3.1.4 Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase (“hot”) line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

According FCC publication number 174176, for a device with a permanent antenna operating at or below 30 MHz, the measurements done with a suitable dummy load, in lieu of the permanent antenna under the following conditions: (1) perform the AC line conducted tests with the permanent antenna to determine compliance with the Section 15.207 limits outside the transmitter's fundamental emission band; (2) retest with a dummy load in lieu of the permanent antenna to determine compliance with the Section 15.207 limits within the transmitter's fundamental emission band.

3.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = attenuation caused by cable loss + voltage division factor of AMN

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

3.2 Radiated Emissions

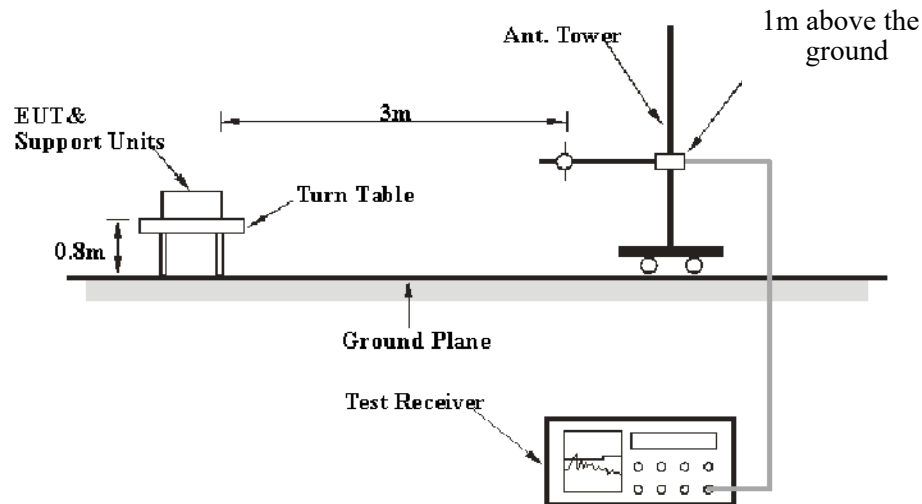
3.2.1 Applicable Standard

As per FCC Part 15.225

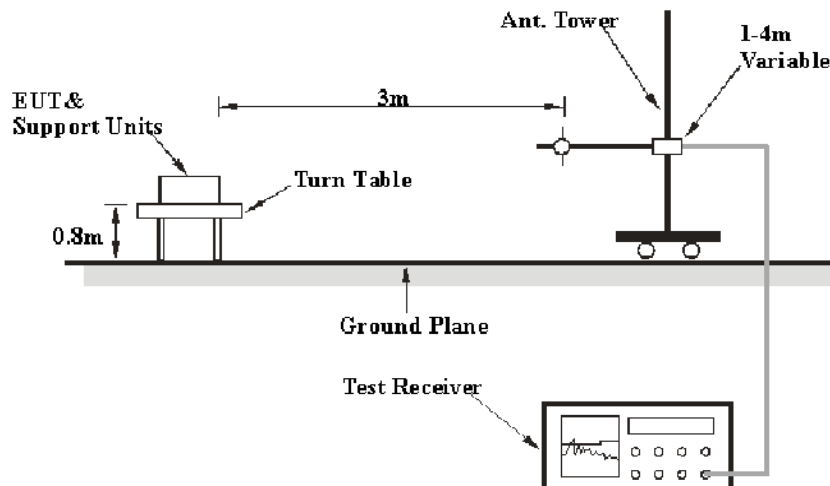
- (a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110–14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

3.2.2 EUT Setup

9kHz-30MHz:



30MHz-1GHz:



The radiated emission tests were performed in the 3-meter chamber test site, using the setup accordance with the ANSI C63.10-2013.

The spacing between the peripherals was 10 cm.

For 9kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 1 GHz.

During the radiated emission test, the EMI test Receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	Detector
9 kHz – 150 kHz	200 Hz	1 kHz	QP
150 kHz – 30 MHz	9 kHz	30 kHz	QP
30 MHz – 1000 MHz	120 kHz	300 kHz	QP

If the maximized peak measured value complies with the limit, then it is unnecessary to perform an QP measurement

3.2.4 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = Antenna Factor + Cable Loss- Amplifier Gain

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

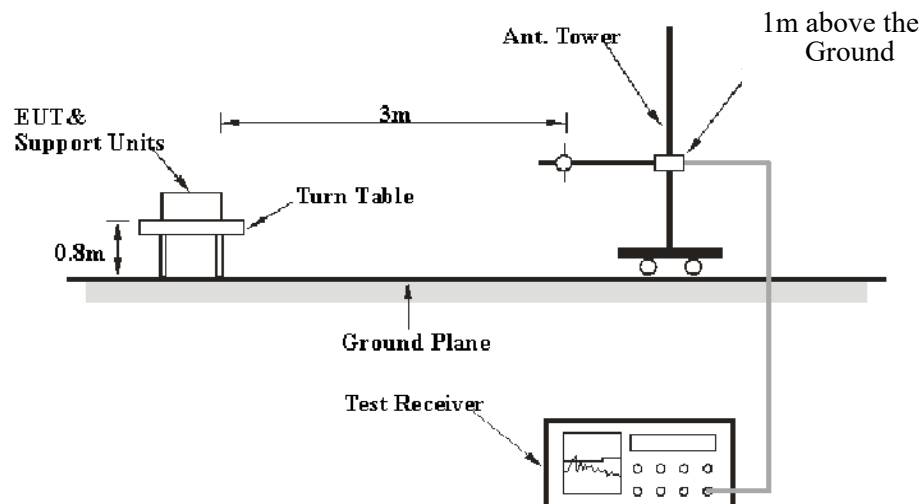
3.3 20 dB Emission Bandwidth:

3.3.1 Applicable Standard

FCC §15.215

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §15.217 through § 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of band operation.

3.3.2 EUT Setup



3.3.3 Test Procedure

1. Position the EUT on the test table without connection to measurement instrument. Turn on the EUT. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
2. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.

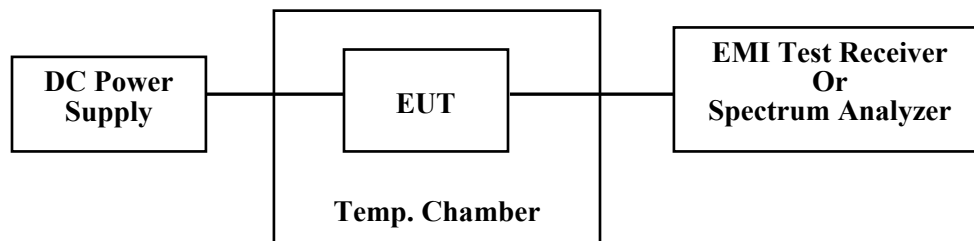
3.4 Frequency Stability

3.4.1 Applicable Standard

As per FCC Part 15.225:

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to $+50$ degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

3.4.2 EUT Setup



3.4.3 Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power.

The EUT was placed inside the temperature chamber.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the Spectrum Analyzer.

Frequency Stability vs. Voltage: An external variable DC power supply Source. The voltage was set to the end point of the battery. The output frequency was recorded for each voltage.

3.5 Antenna Requirement

3.5.1 Applicable Standard

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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

3.5.2 Judgment

Please refer to the Antenna Information detail in Section 1.

4. TEST DATA AND RESULTS

4.1 AC Line Conducted Emissions

Serial Number:	CR21110094-S1(E16S) CR21110094-S2(A05S)	Test Date:	2021-12-17
Test Site:	CE	Test Mode:	Transmitting
Tester:	Nick Tang	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	21.5~23.1	Relative Humidity: (%)	61~70	ATM Pressure: (kPa)	101~101.2

Test Equipment List and Details:

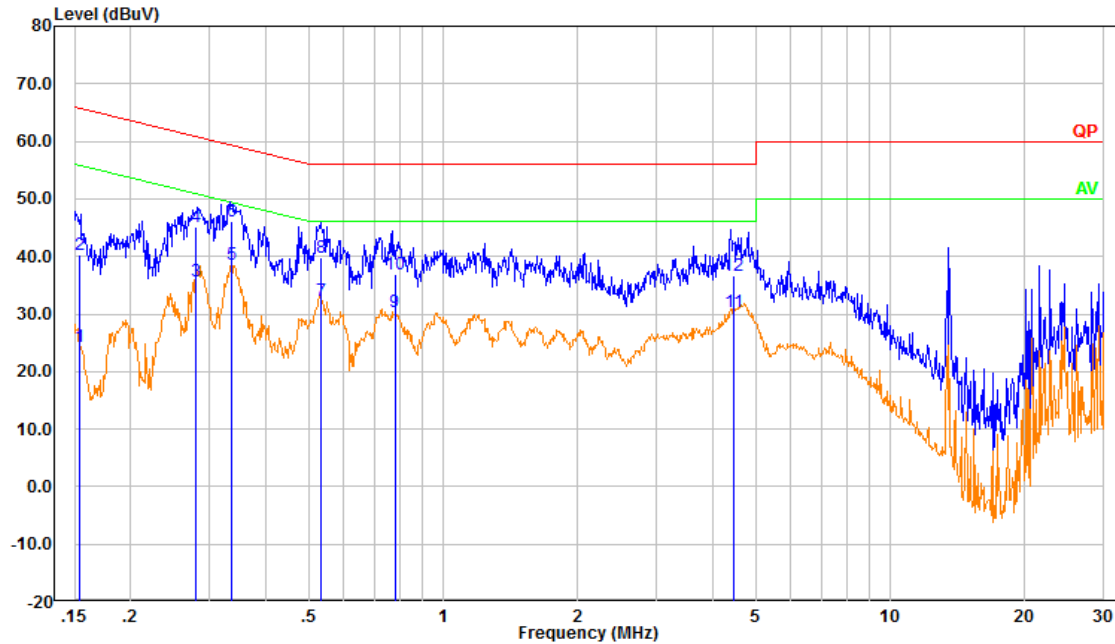
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2021-04-25	2022-04-24
R&S	EMI Test Receiver	ESR3	102726	2021-07-22	2022-07-21
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2021-08-08	2022-08-07
Audix	Test Software	E3	190306 (V9)	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

E16S:

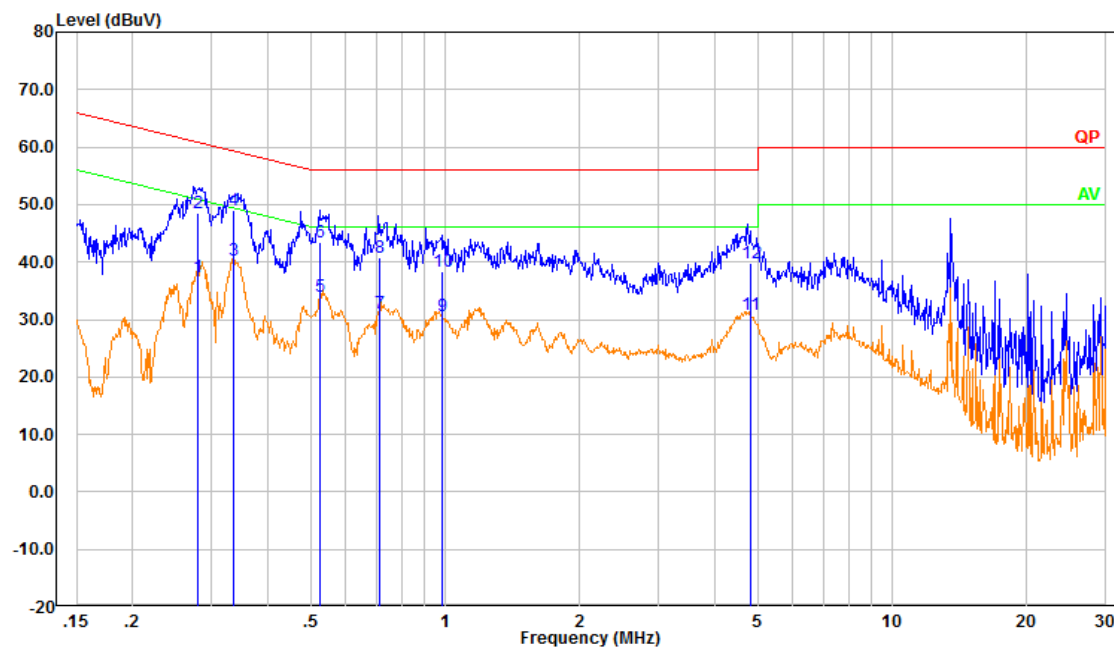
AC/DC Adapter Mode:

Line:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.154	14.68	9.61	24.29	55.79	31.50	Average
2	0.154	30.57	9.61	40.18	65.79	25.61	QP
3	0.280	26.05	9.61	35.66	50.81	15.15	Average
4	0.280	35.64	9.61	45.25	60.81	15.56	QP
5	0.337	28.89	9.61	38.50	49.27	10.77	Average
6	0.337	36.42	9.61	46.03	59.27	13.24	QP
7	0.533	22.76	9.61	32.37	46.00	13.63	Average
8	0.533	30.27	9.61	39.89	56.00	16.11	QP
9	0.779	20.74	9.62	30.36	46.00	15.64	Average
10	0.779	27.24	9.62	36.86	56.00	19.14	QP
11	4.452	20.78	9.65	30.43	46.00	15.57	Average
12	4.452	27.01	9.65	36.66	56.00	19.34	QP

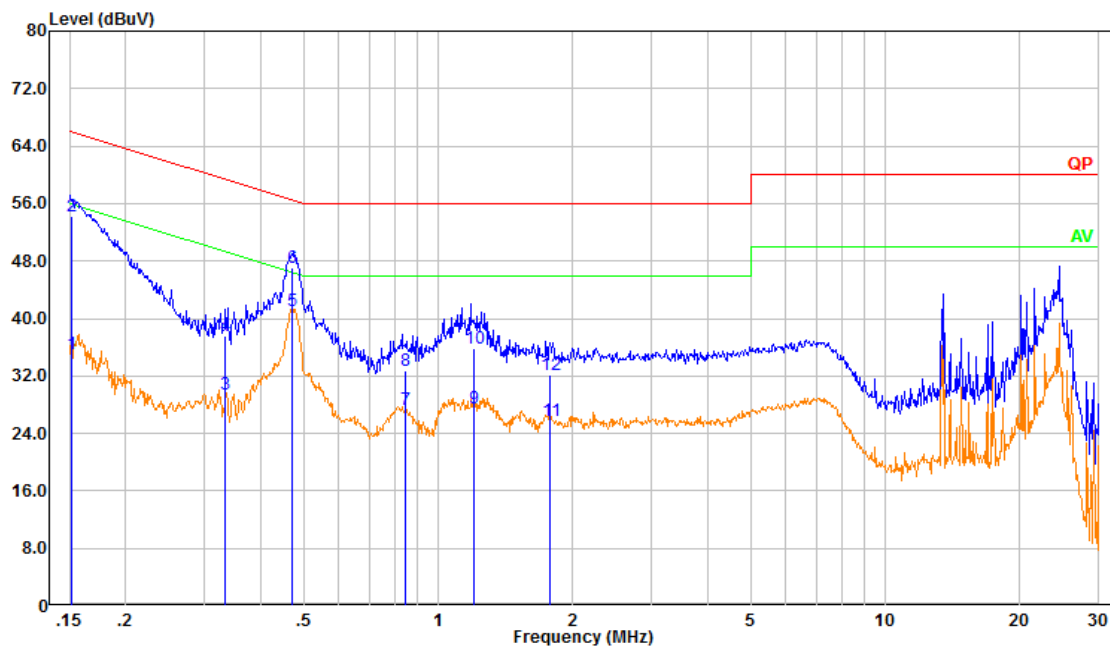
Neutral:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.279	27.81	9.61	37.42	50.84	13.42	Average
2	0.279	38.97	9.61	48.58	60.84	12.26	QP
3	0.335	30.58	9.61	40.19	49.32	9.13	Average
4	0.335	39.39	9.61	49.00	59.32	10.32	QP
5	0.526	24.44	9.61	34.05	46.00	11.95	Average
6	0.526	33.91	9.61	43.53	56.00	12.47	QP
7	0.713	21.56	9.62	31.18	46.00	14.82	Average
8	0.713	31.24	9.62	40.86	56.00	15.14	QP
9	0.982	20.92	9.62	30.54	46.00	15.46	Average
10	0.982	28.80	9.62	38.42	56.00	17.58	QP
11	4.824	21.20	9.66	30.86	46.00	15.14	Average
12	4.824	30.12	9.66	39.78	56.00	16.22	QP

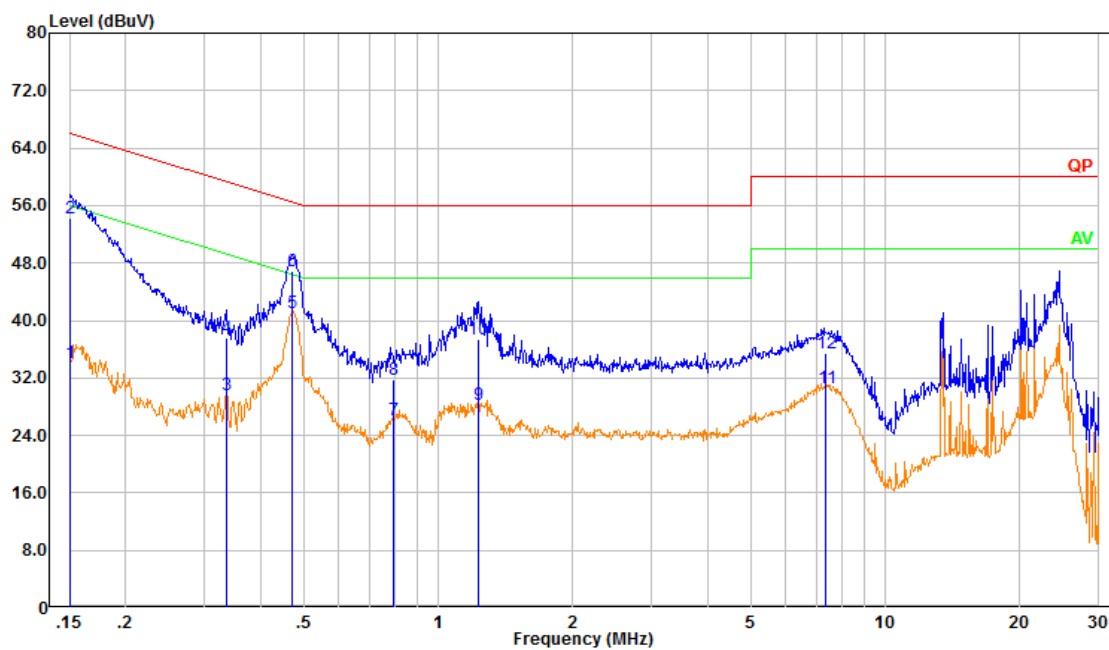
POE Adapter Mode:

Line:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.151	25.36	9.61	34.97	55.94	20.97	Average
2	0.151	44.60	9.61	54.21	65.94	11.73	QP
3	0.335	19.89	9.61	29.50	49.34	19.84	Average
4	0.335	28.06	9.61	37.67	59.34	21.67	QP
5	0.472	31.54	9.61	41.15	46.48	5.33	Average
6	0.472	37.43	9.61	47.04	56.48	9.44	QP
7	0.842	17.62	9.62	27.24	46.00	18.76	Average
8	0.842	23.19	9.62	32.81	56.00	23.19	QP
9	1.206	17.98	9.62	27.60	46.00	18.40	Average
10	1.206	26.15	9.62	35.77	56.00	20.23	QP
11	1.782	16.06	9.63	25.69	46.00	20.31	Average
12	1.782	22.52	9.63	32.14	56.00	23.86	QP

Neutral:

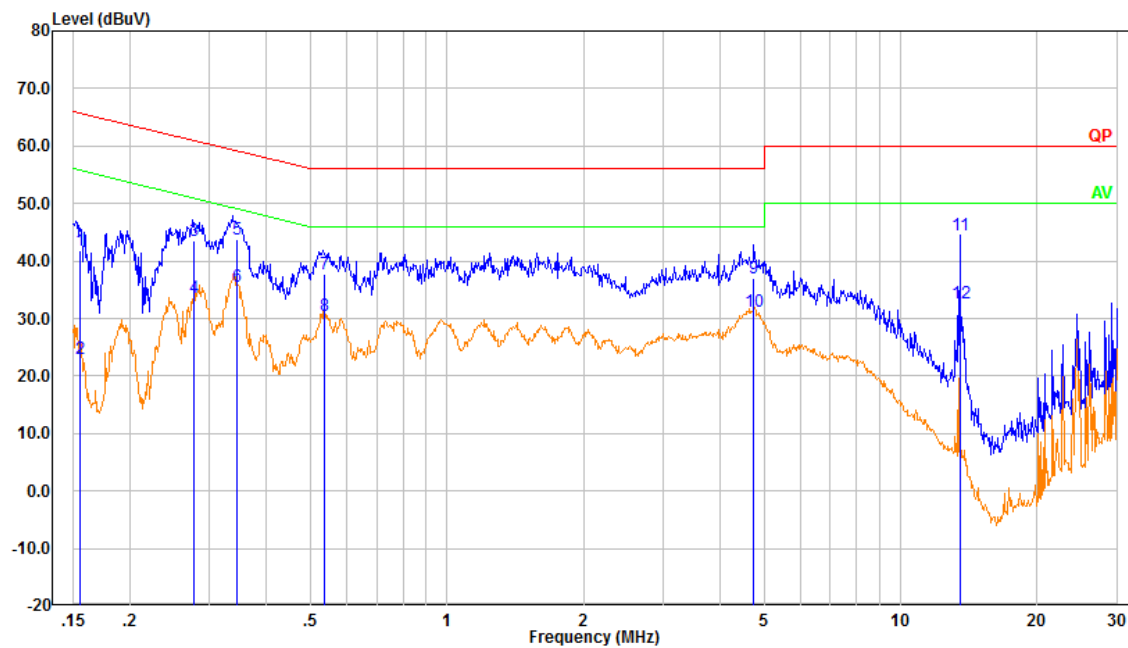


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.150	24.47	9.61	34.08	55.99	21.91	Average
2	0.150	44.61	9.61	54.22	65.99	11.77	QP
3	0.337	19.95	9.61	29.56	49.27	19.71	Average
4	0.337	28.00	9.61	37.61	59.27	21.66	QP
5	0.473	31.36	9.61	40.97	46.47	5.50	Average
6	0.473	37.33	9.61	46.94	56.47	9.53	QP
7	0.793	16.53	9.62	26.15	46.00	19.85	Average
8	0.793	22.21	9.62	31.83	56.00	24.17	QP
9	1.226	18.65	9.62	28.27	46.00	17.73	Average
10	1.226	27.72	9.62	37.34	56.00	18.66	QP
11	7.377	20.93	9.66	30.60	50.00	19.40	Average
12	7.377	25.86	9.66	35.52	60.00	24.48	QP

A05S

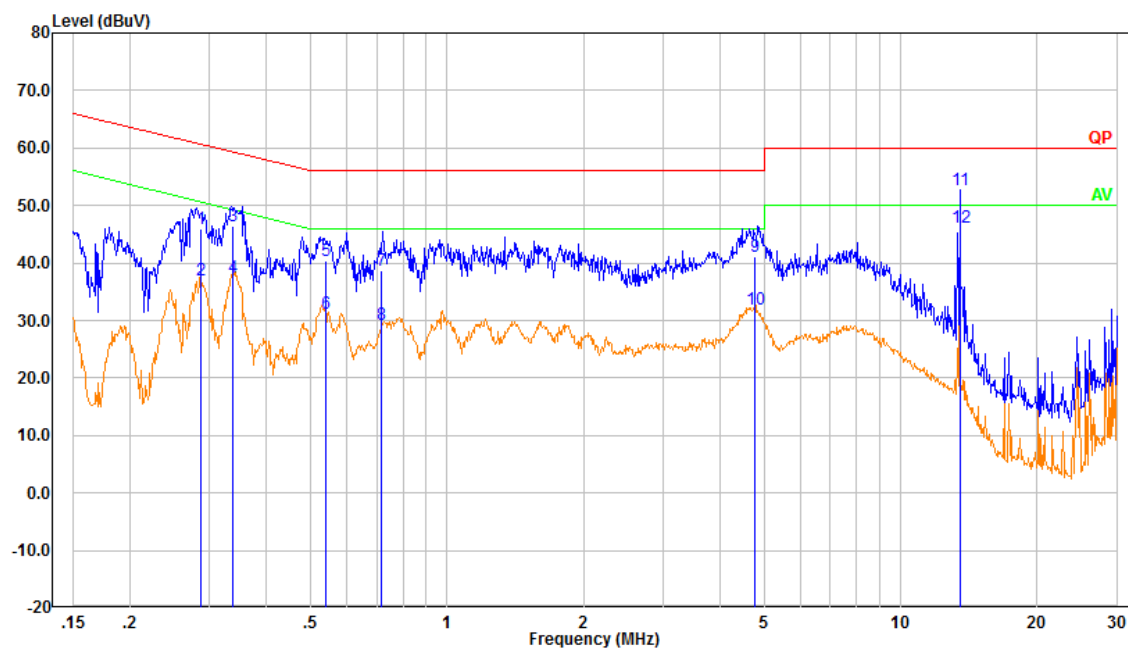
AC/DC Adapter Mode:

Line:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.155	32.28	9.61	41.89	65.73	23.84	QP
2	0.155	13.40	9.61	23.01	55.73	32.72	Average
3	0.278	33.92	9.61	43.53	60.89	17.36	QP
4	0.278	24.08	9.61	33.69	50.89	17.20	Average
5	0.346	34.04	9.61	43.65	59.07	15.42	QP
6	0.346	25.91	9.61	35.52	49.07	13.55	Average
7	0.536	28.02	9.61	37.63	56.00	18.37	QP
8	0.536	20.89	9.61	30.50	46.00	15.50	Average
9	4.739	27.34	9.66	37.00	56.00	19.00	QP
10	4.739	21.45	9.66	31.11	46.00	14.89	Average
11	13.514	34.86	9.68	44.54	60.00	15.46	QP
12	13.514	23.05	9.68	32.73	50.00	17.27	Average

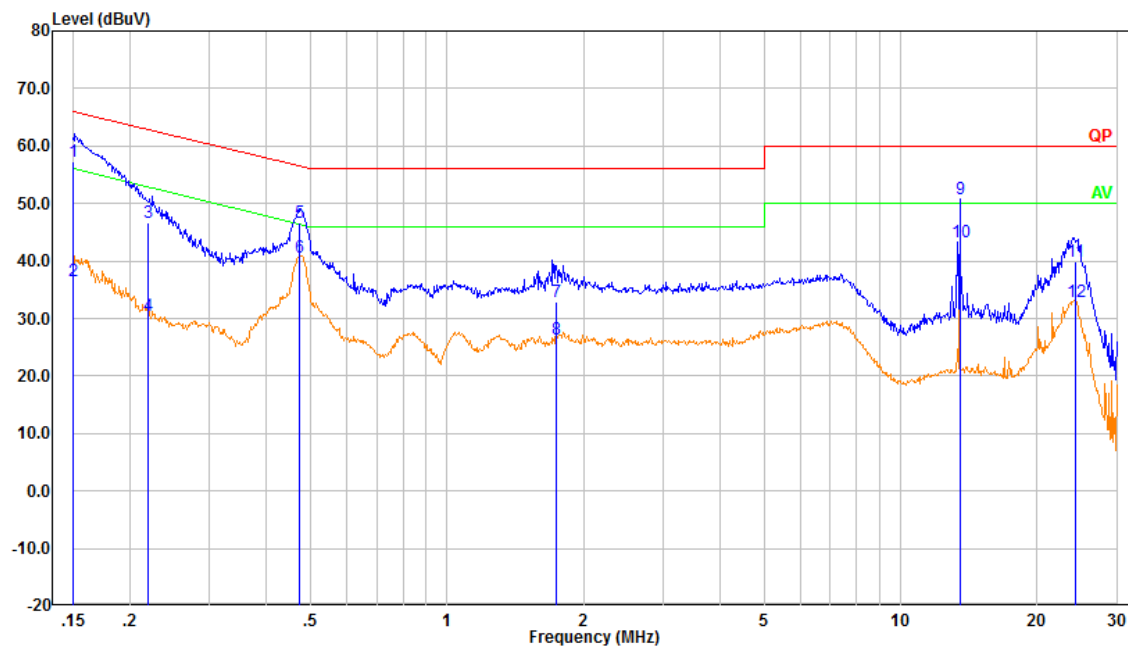
Neutral:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.286	36.36	9.61	45.97	60.63	14.66	QP
2	0.286	27.44	9.61	37.05	50.63	13.58	Average
3	0.338	36.86	9.61	46.47	59.25	12.78	QP
4	0.338	27.96	9.61	37.57	49.25	11.68	Average
5	0.540	30.67	9.61	40.28	56.00	15.72	QP
6	0.540	21.70	9.61	31.31	46.00	14.69	Average
7	0.717	29.11	9.62	38.73	56.00	17.27	QP
8	0.717	19.64	9.62	29.26	46.00	16.74	Average
9	4.775	31.48	9.66	41.14	56.00	14.86	QP
10	4.775	22.19	9.66	31.85	46.00	14.15	Average
11	13.514	42.94	9.68	52.62	60.00	7.38	QP
12	13.514	36.45	9.68	46.13	50.00	3.87	Average

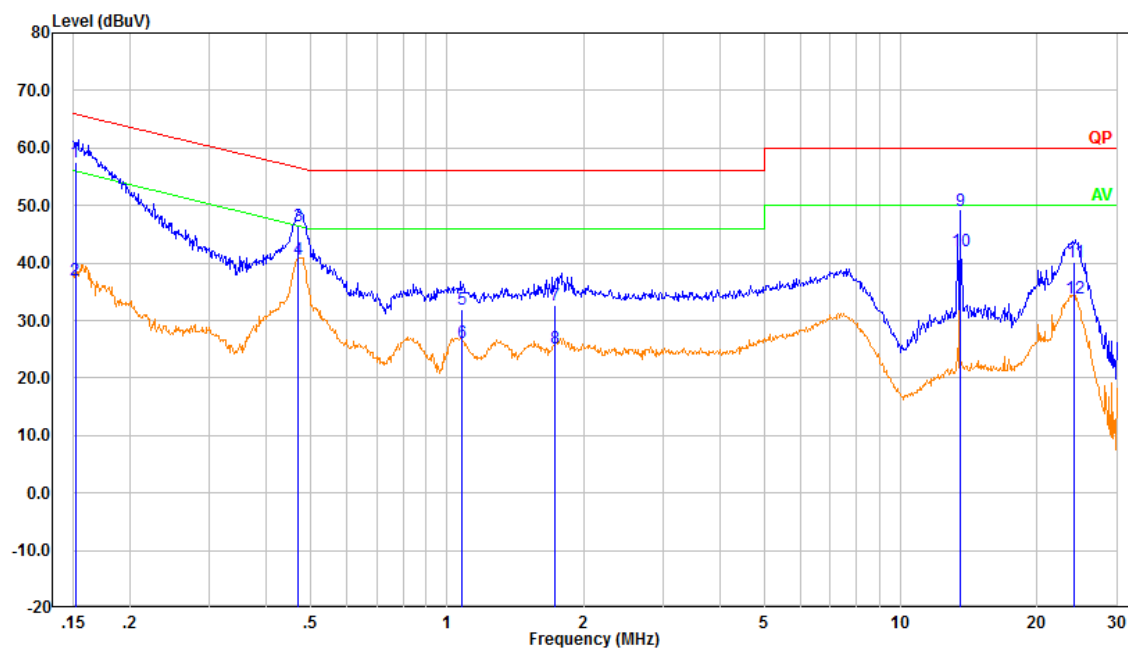
POE Adapter Mode:

Line:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.150	47.78	9.61	57.39	65.99	8.60	QP
2	0.150	27.01	9.61	36.62	55.99	19.37	Average
3	0.219	37.10	9.61	46.71	62.87	16.16	QP
4	0.219	20.92	9.61	30.53	52.87	22.34	Average
5	0.473	37.04	9.61	46.65	56.46	9.81	QP
6	0.473	31.12	9.61	40.73	46.46	5.73	Average
7	1.745	23.23	9.63	32.86	56.00	23.14	QP
8	1.745	16.64	9.63	26.27	46.00	19.73	Average
9	13.514	41.03	9.68	50.71	60.00	9.29	QP
10	13.514	33.49	9.68	43.17	50.00	6.83	Average
11	24.289	30.05	9.81	39.86	60.00	20.14	QP
12	24.289	22.99	9.81	32.80	50.00	17.20	Average

Neutral:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.152	47.89	9.61	57.50	65.91	8.41	QP
2	0.152	27.50	9.61	37.11	55.91	18.80	Average
3	0.470	36.75	9.61	46.36	56.52	10.16	QP
4	0.470	30.99	9.61	40.60	46.52	5.92	Average
5	1.082	22.43	9.62	32.05	56.00	23.95	QP
6	1.082	16.50	9.62	26.12	46.00	19.88	Average
7	1.734	22.91	9.63	32.54	56.00	23.46	QP
8	1.734	15.61	9.63	25.24	46.00	20.76	Average
9	13.514	39.37	9.68	49.05	60.00	10.95	QP
10	13.514	32.33	9.68	42.01	50.00	7.99	Average
11	24.173	30.34	9.75	40.09	60.00	19.91	QP
12	24.173	24.14	9.75	33.89	50.00	16.11	Average

4.2 Radiation Spurious Emissions

Serial Number:	CR21110094-S1(E16S) CR21110094-S2(A05S)	Test Date:	2022-02-10~222-04-02
Test Site:	966-2	Test Mode:	Transmitting
Tester:	Great Qiao	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	18.1~18.4	Relative Humidity: (%)	53~56	ATM Pressure: (kPa)	101~101.4
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
TESEQ	HF Loop Antenna	HLA6120	33561	2021-02-03	2024-02-02
Sunol Sciences	Antenna	JB6	A082520-5	2020-10-19	2023-10-18
R&S	EMI Test Receiver	ESR3	102724	2021-07-22	2022-07-21
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2021-07-18	2022-07-17
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2021-07-18	2022-07-17
Sonoma	Amplifier	310N	186165	2021-07-18	2022-07-17
Audix	Test Software	E3	201021 (V9)	N/A	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

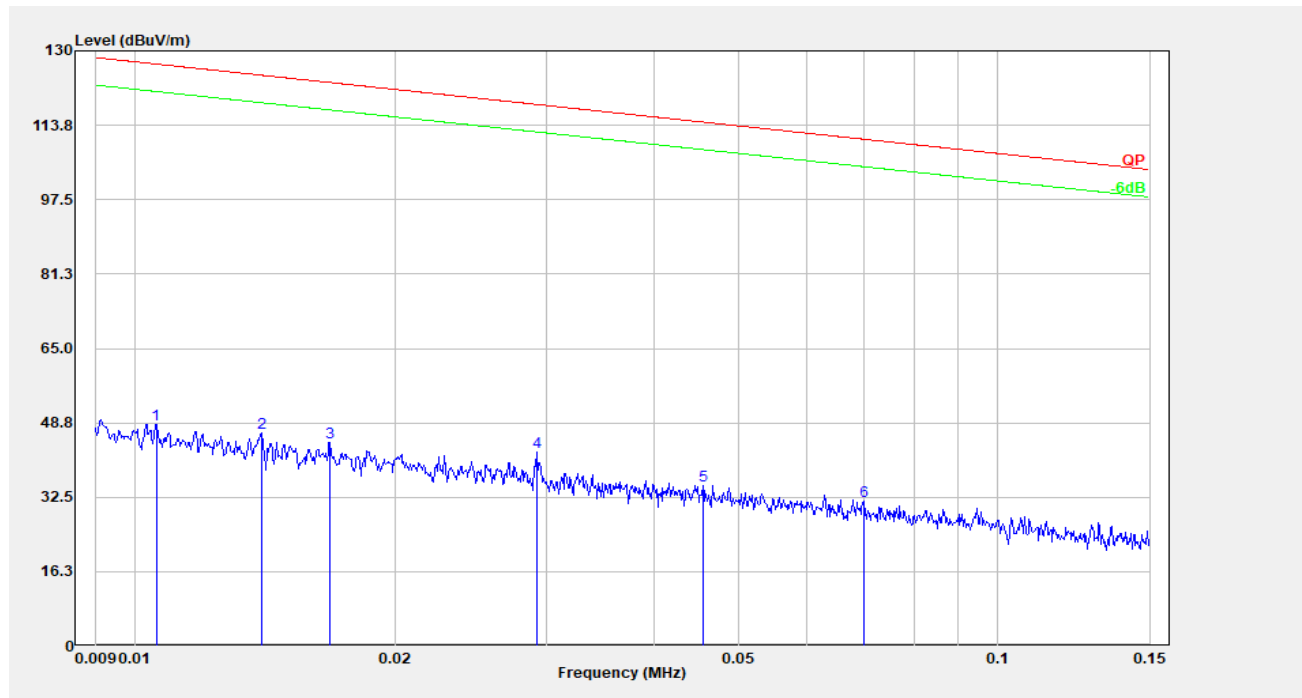
Test Data:

1) 9 kHz~30MHz:

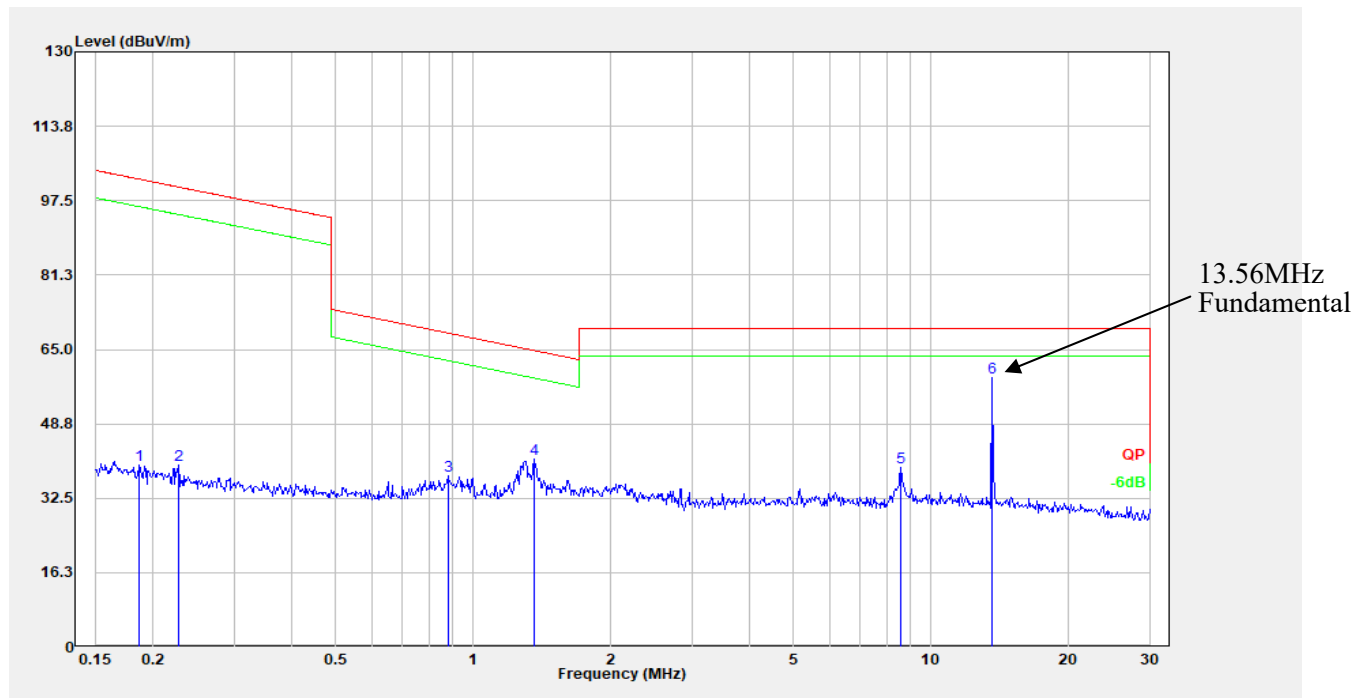
E16S:

AC/DC Adapter:

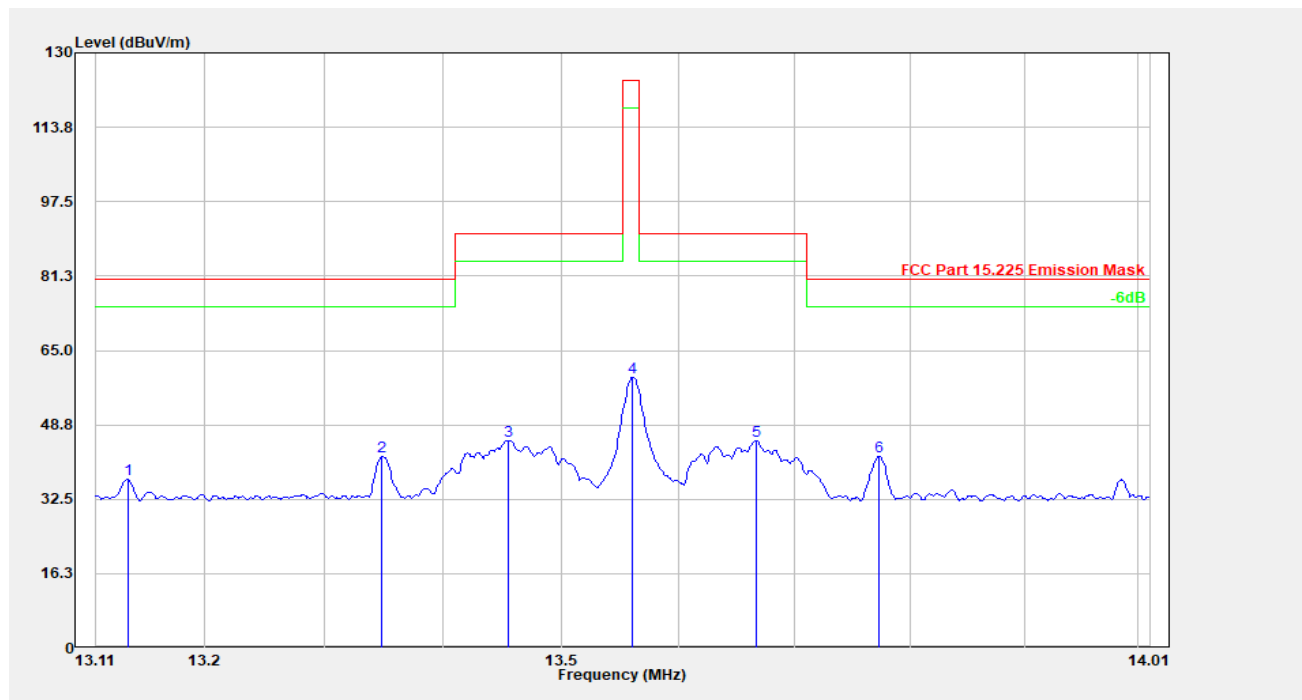
Parallel:



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	0.011	27.91	20.51	48.42	127.13	78.71	Peak
2	0.014	26.06	20.51	46.57	124.68	78.12	Peak
3	0.017	24.01	20.51	44.52	123.09	78.57	Peak
4	0.029	21.92	20.41	42.33	118.31	75.97	Peak
5	0.046	14.65	20.41	35.06	114.44	79.38	Peak
6	0.070	11.21	20.42	31.63	110.71	79.07	Peak

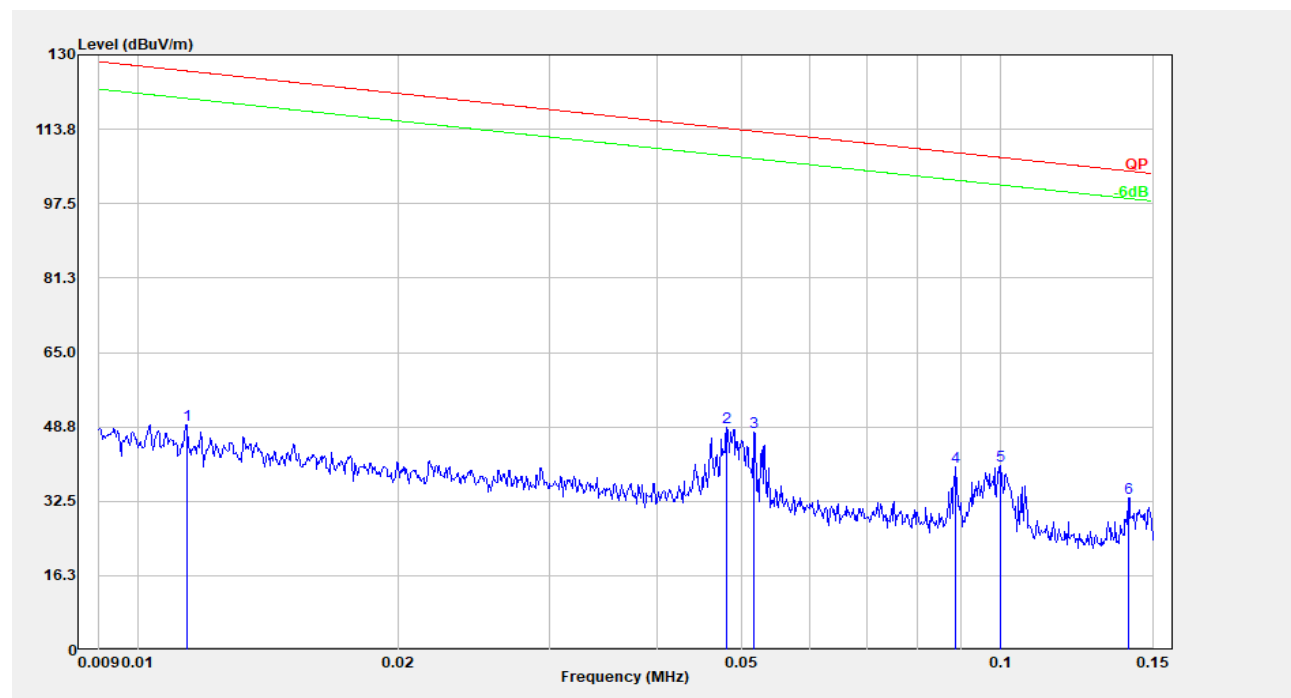


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.186	19.55	20.22	39.77	102.20	62.43	Peak
2	0.227	19.54	20.17	39.71	100.49	60.78	Peak
3	0.880	17.32	20.03	37.35	68.60	31.26	Peak
4	1.359	21.17	19.97	41.14	64.75	23.61	Peak
5	8.592	19.00	20.18	39.18	69.54	30.36	Peak
6	13.551	38.40	20.39	58.79	69.54	10.75	Peak

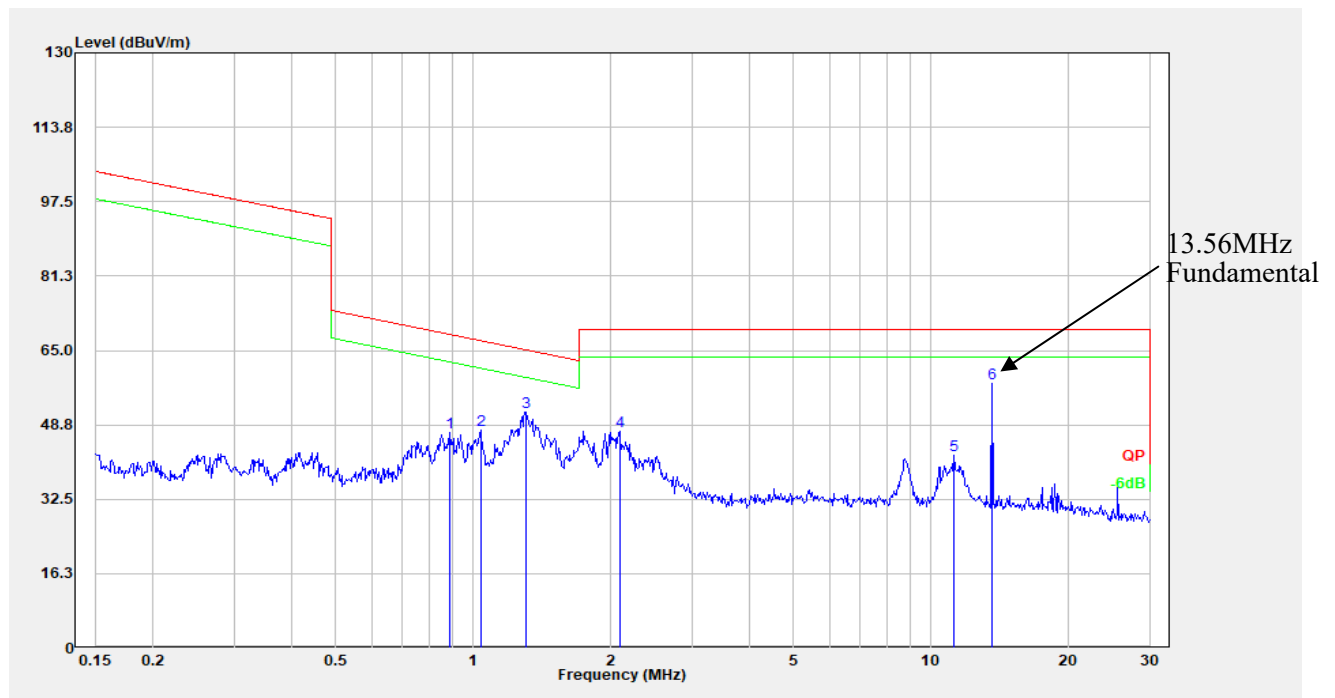


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	13.136	16.51	20.37	36.89	80.51	43.62	Peak
2	13.349	21.50	20.38	41.88	80.51	38.63	Peak
3	13.455	24.99	20.38	45.38	90.47	45.09	Peak
4	13.561	38.77	20.39	59.16	124.00	64.84	Peak
5	13.667	24.84	20.39	45.23	90.47	45.24	Peak
6	13.773	21.50	20.39	41.90	80.51	38.61	Peak

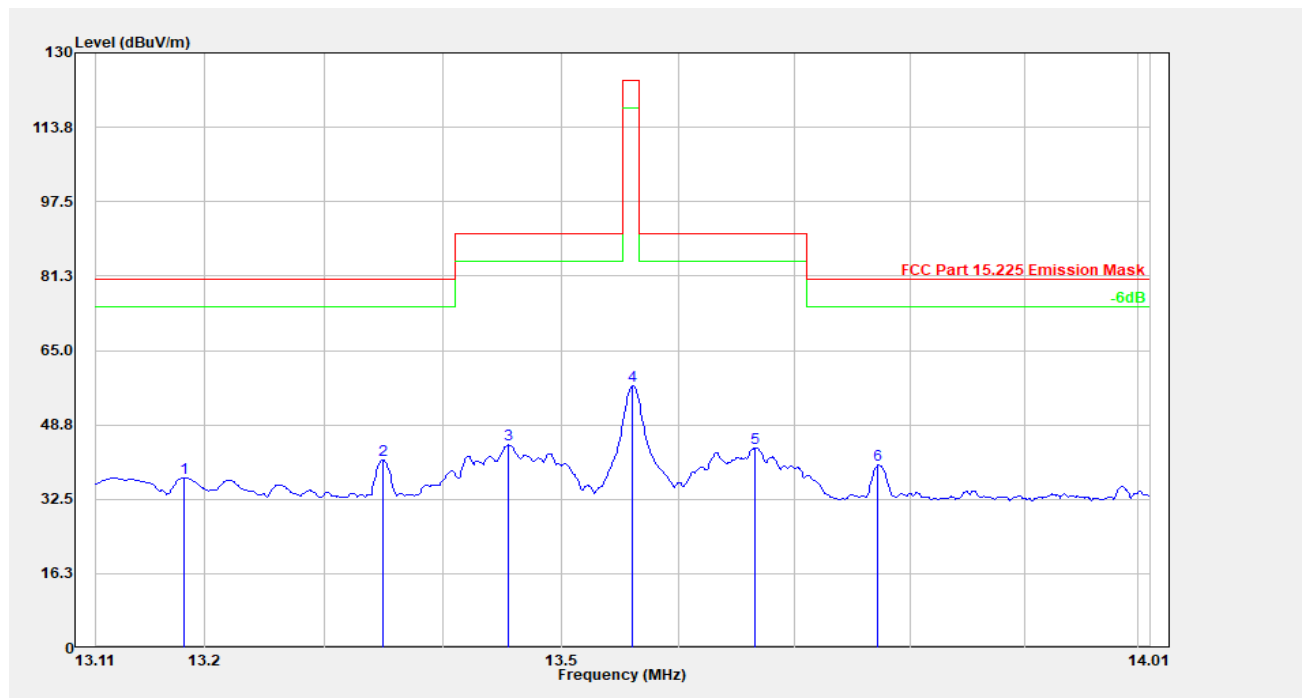
Perpendicular:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.011	28.68	20.51	49.19	126.49	77.30	Peak
2	0.048	28.24	20.41	48.65	113.96	65.31	Peak
3	0.052	27.24	20.41	47.65	113.32	65.67	Peak
4	0.089	19.68	20.30	39.98	108.65	68.68	Peak
5	0.100	19.98	20.22	40.20	107.60	67.40	Peak
6	0.141	13.04	20.22	33.26	104.64	71.38	Peak

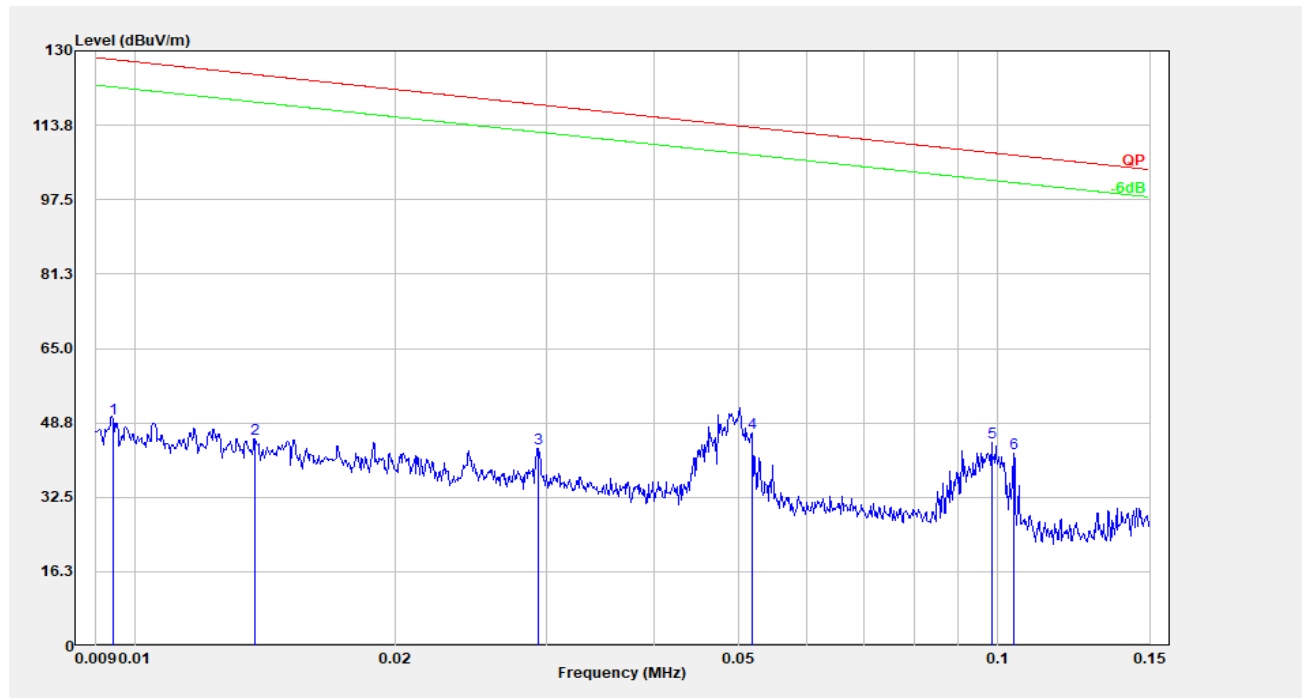


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.890	27.02	20.03	47.05	68.51	21.46	Peak
2	1.037	27.46	20.02	47.49	67.15	19.66	Peak
3	1.303	31.56	19.98	51.54	65.13	13.58	Peak
4	2.088	27.50	19.96	47.46	69.54	22.08	Peak
5	11.198	21.86	20.33	42.19	69.54	27.35	Peak
6	13.551	37.40	20.39	57.79	69.54	11.75	Peak

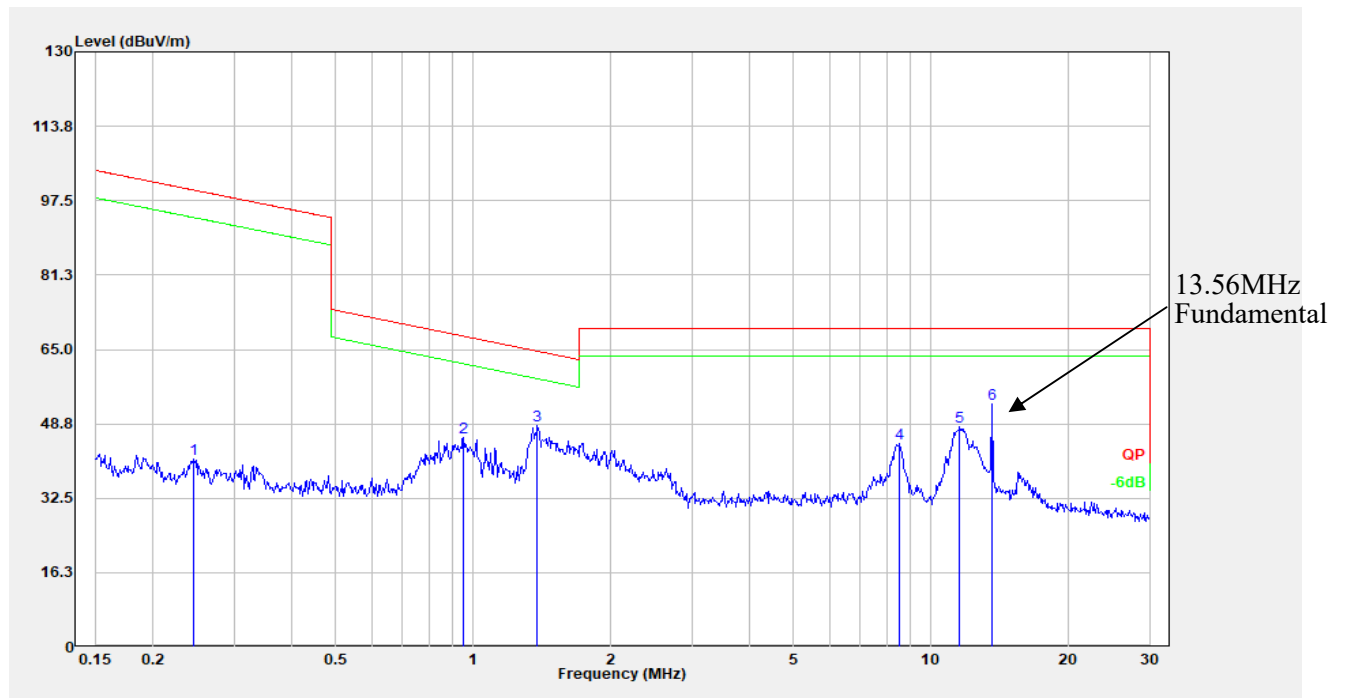


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	13.183	16.88	20.38	37.26	80.51	43.25	Peak
2	13.349	20.77	20.38	41.15	80.51	39.36	Peak
3	13.456	24.03	20.38	44.41	90.47	46.06	Peak
4	13.561	36.86	20.39	57.25	124.00	66.75	Peak
5	13.666	23.28	20.39	43.67	90.47	46.80	Peak
6	13.772	19.55	20.39	39.94	80.51	40.57	Peak

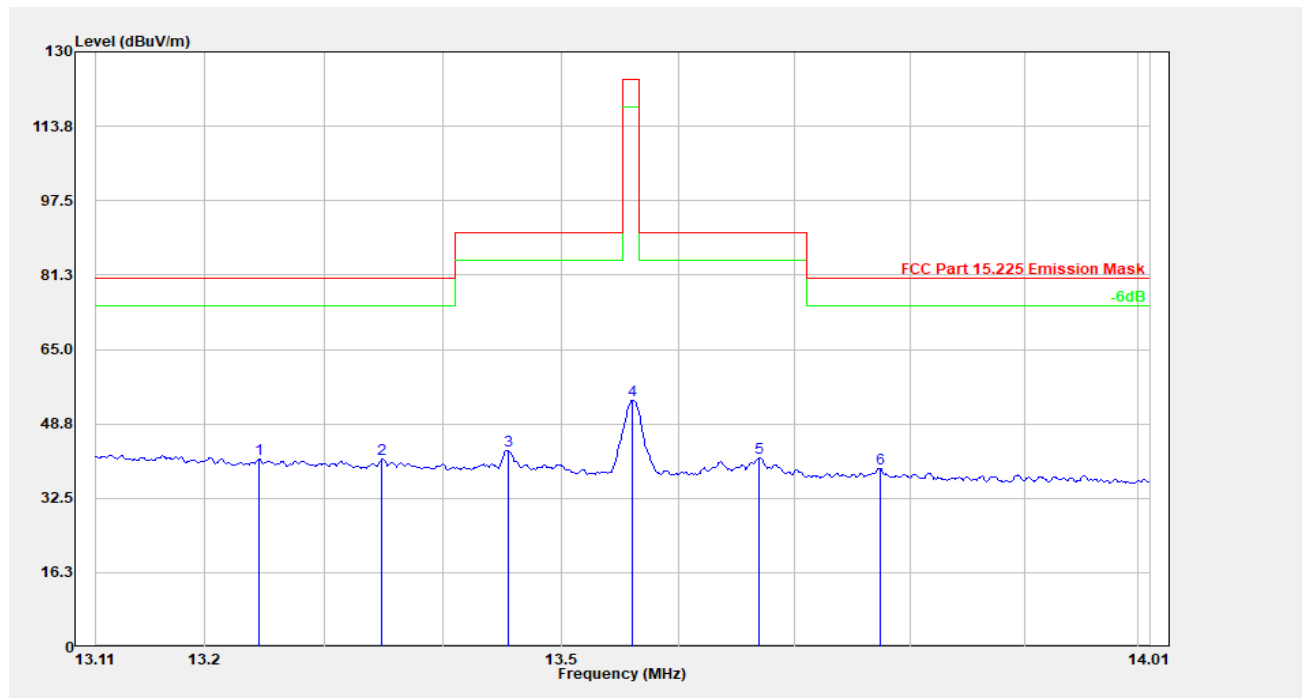
Ground-parallel:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.009	29.26	20.51	49.77	128.13	78.36	Peak
2	0.014	24.71	20.51	45.22	124.83	79.61	Peak
3	0.029	22.86	20.41	43.27	118.26	74.99	Peak
4	0.052	26.15	20.41	46.56	113.30	66.74	Peak
5	0.098	24.18	20.23	44.41	107.75	63.34	Peak
6	0.104	21.98	20.22	42.20	107.23	65.04	Peak

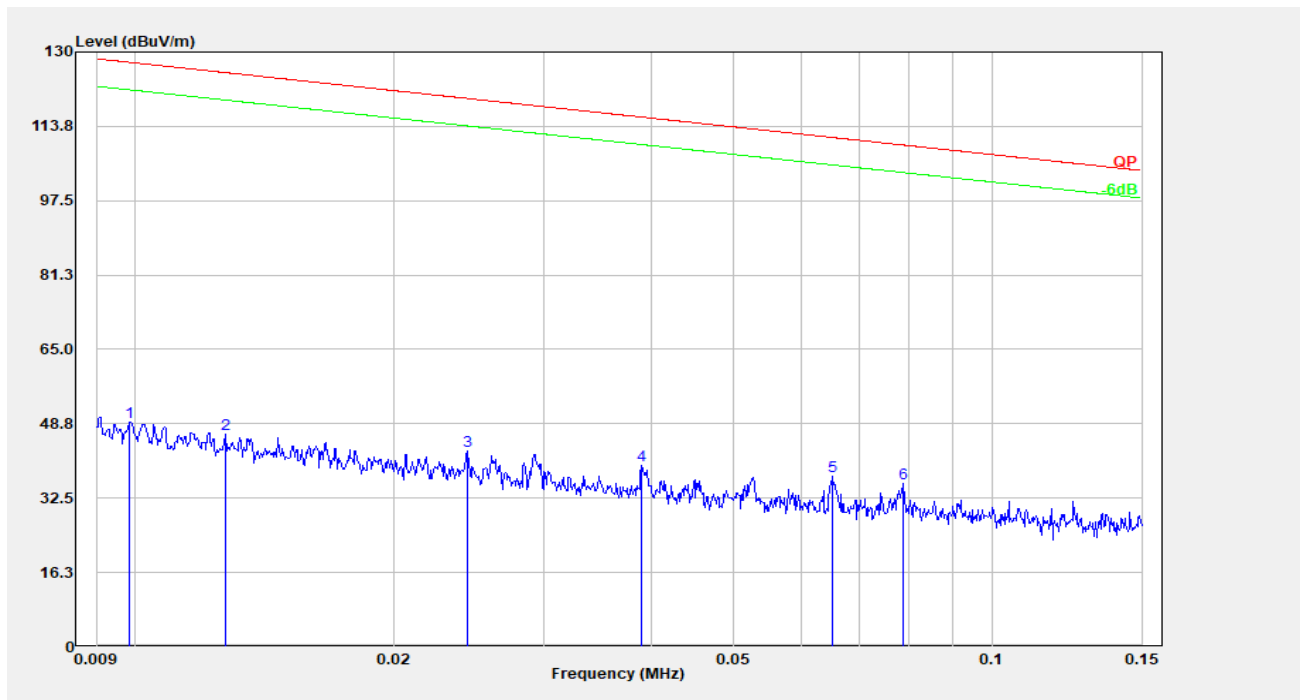


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.244	20.85	20.13	40.98	99.85	58.87	Peak
2	0.953	25.83	20.03	45.86	67.90	22.04	Peak
3	1.381	28.32	19.97	48.29	64.61	16.32	Peak
4	8.546	24.31	20.18	44.49	69.54	25.05	Peak
5	11.559	27.73	20.34	48.07	69.54	21.47	Peak
6	13.551	32.76	20.39	53.14	69.54	16.40	Peak

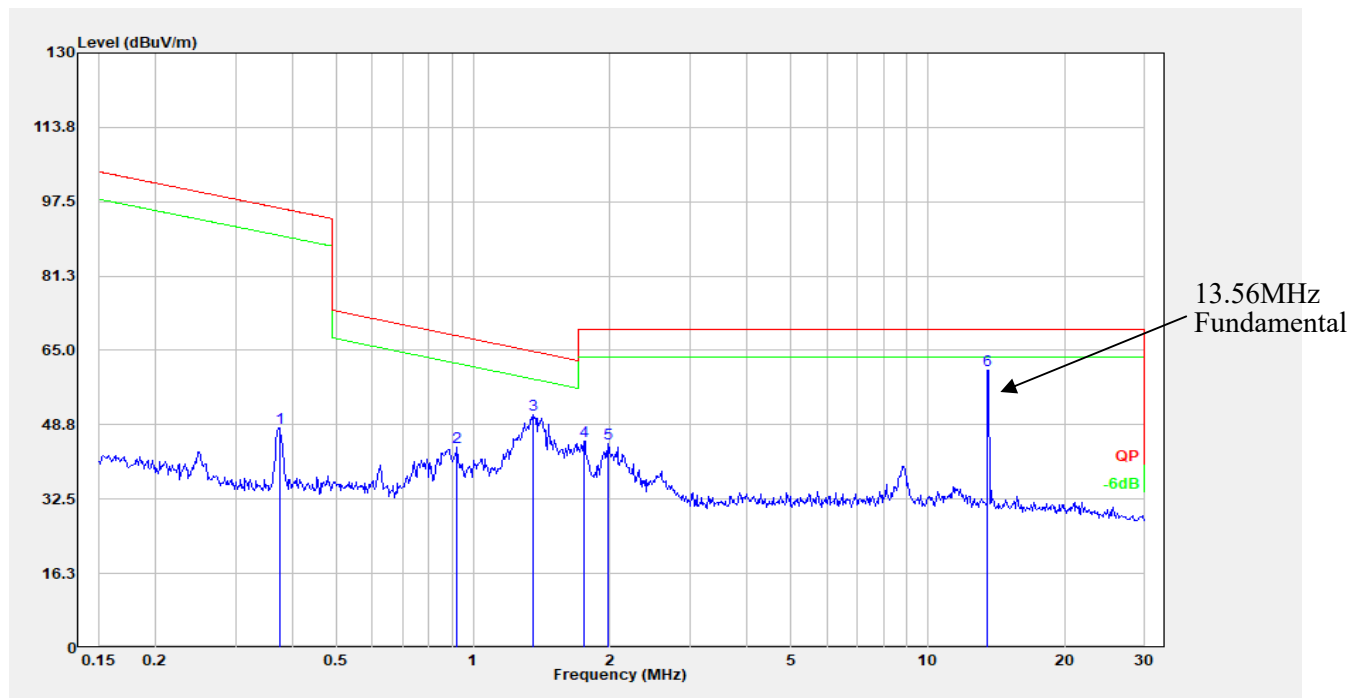


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	13.245	20.61	20.38	40.99	80.51	39.52	Peak
2	13.349	20.60	20.38	40.98	80.51	39.53	Peak
3	13.455	22.64	20.38	43.02	90.47	47.45	Peak
4	13.561	33.52	20.39	53.91	124.00	70.09	Peak
5	13.670	20.90	20.39	41.29	90.47	49.18	Peak
6	13.774	18.60	20.39	39.00	80.51	41.51	Peak

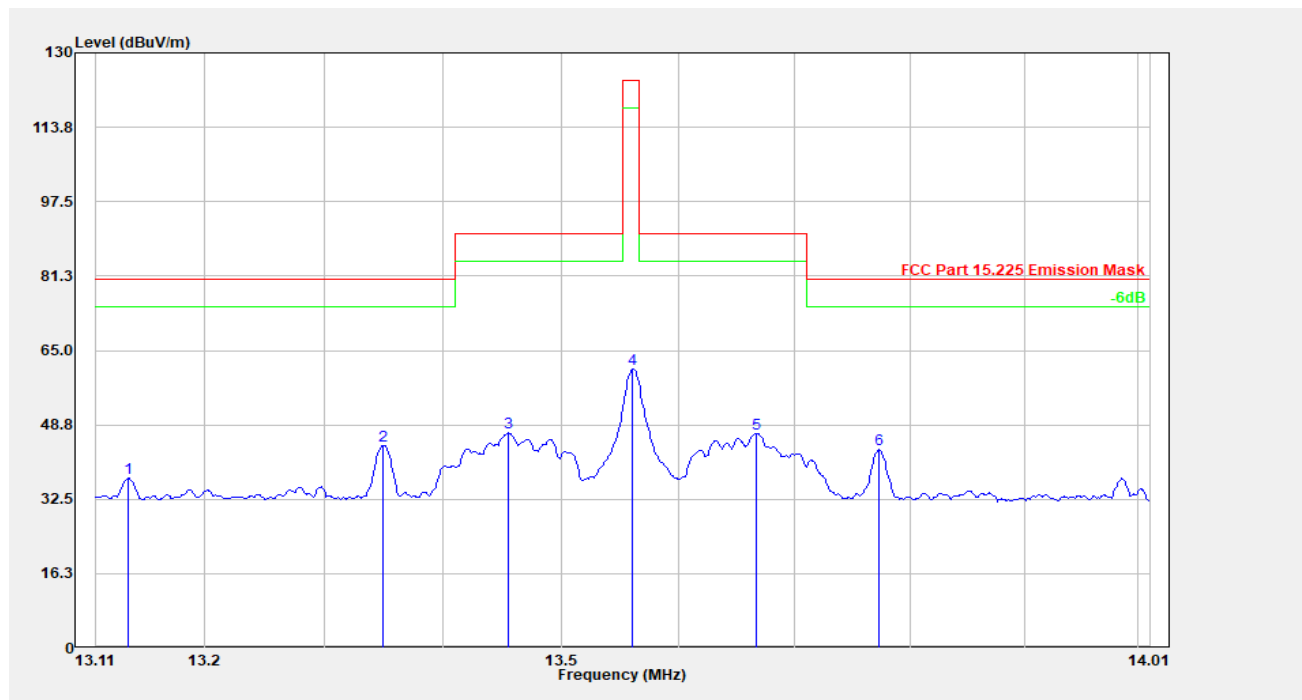
POE Adapter Mode:
Parallel:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.010	28.72	20.51	49.23	127.74	78.51	Peak
2	0.013	25.90	20.51	46.41	125.51	79.11	Peak
3	0.024	22.31	20.42	42.73	119.87	77.14	Peak
4	0.039	19.23	20.41	39.64	115.79	76.15	Peak
5	0.065	16.83	20.42	37.25	111.34	74.09	Peak
6	0.079	15.43	20.36	35.79	109.68	73.89	Peak

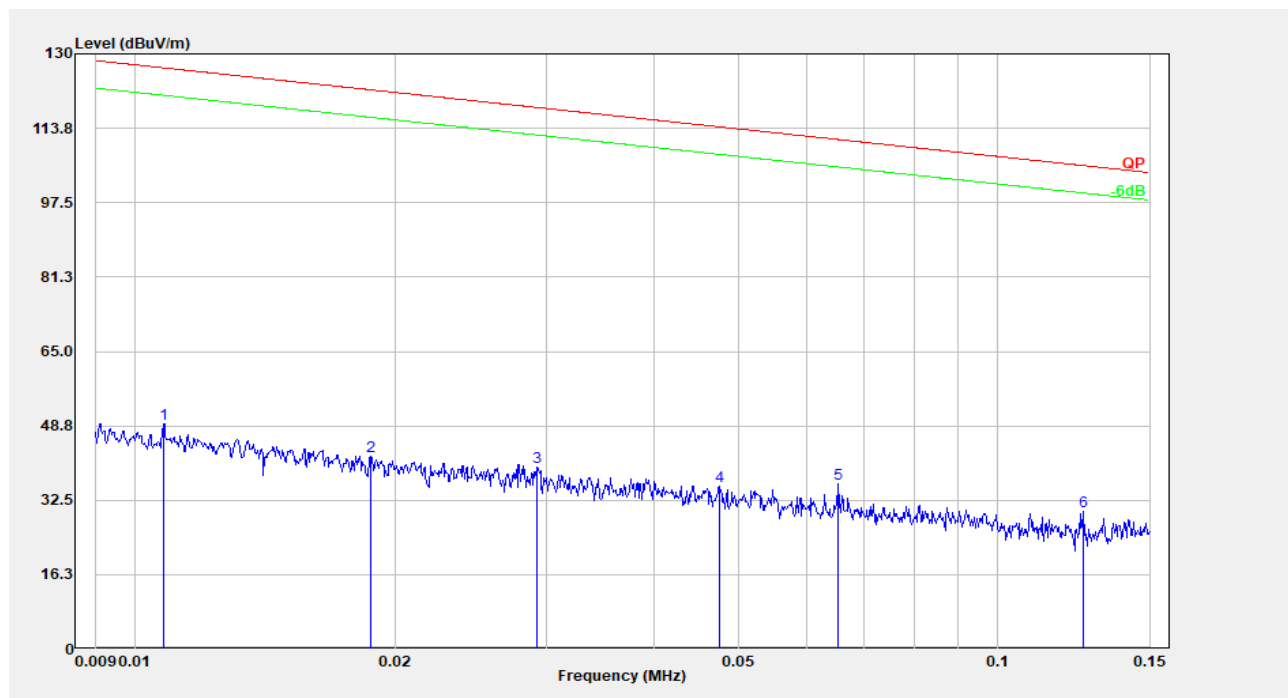


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.375	27.92	20.08	48.00	96.12	48.12	Peak
2	0.923	23.90	20.03	43.93	68.18	24.25	Peak
3	1.359	30.93	19.97	50.89	64.75	13.86	Peak
4	1.753	25.22	19.95	45.17	69.54	24.37	Peak
5	1.980	24.60	19.96	44.56	69.54	24.98	Peak
6	13.551	40.26	20.39	60.65	69.54	8.89	Peak

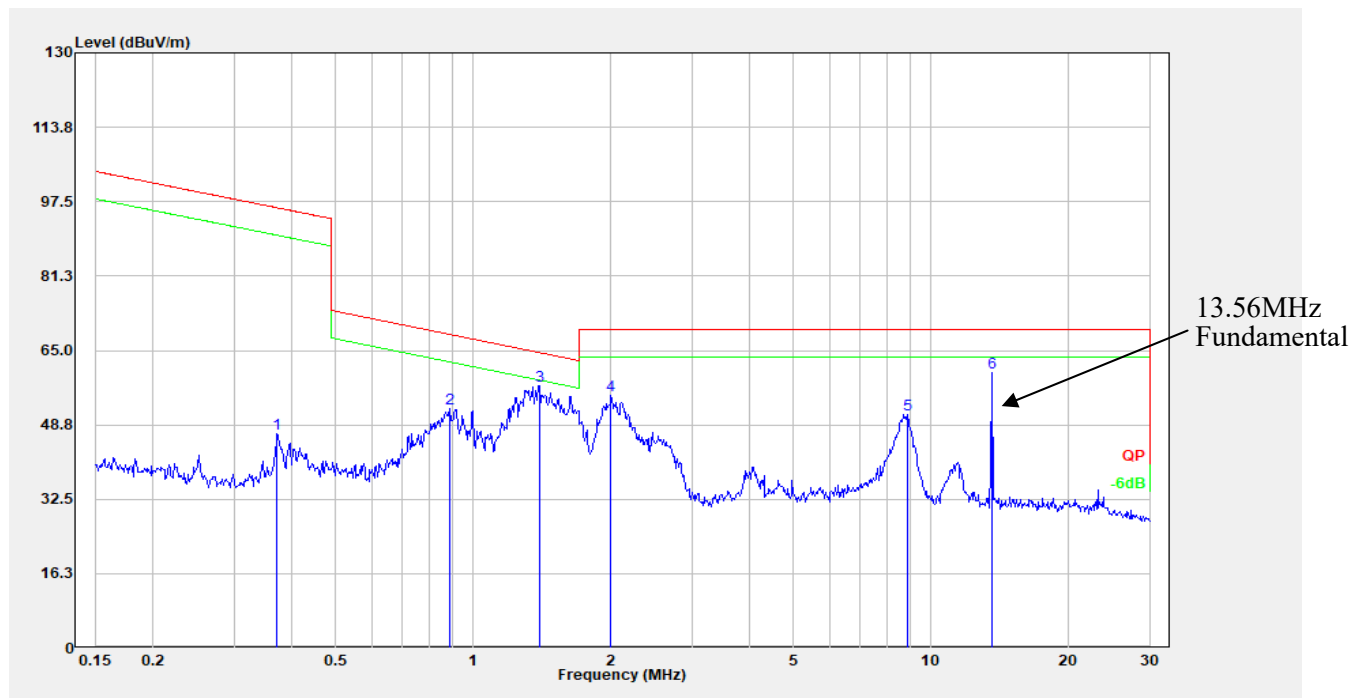


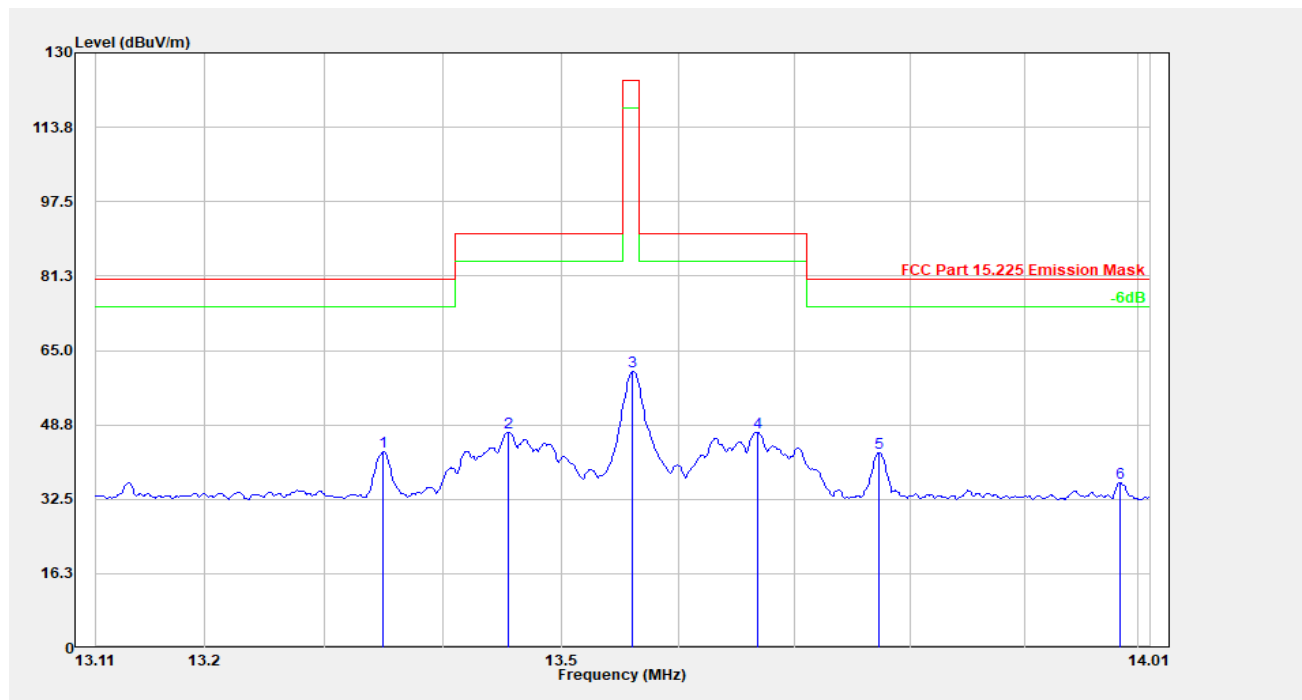
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	13.137	16.80	20.37	37.17	80.51	43.34	Peak
2	13.349	23.91	20.38	44.29	80.51	36.22	Peak
3	13.456	26.65	20.38	47.04	90.47	43.43	Peak
4	13.561	40.49	20.39	60.88	124.00	63.12	Peak
5	13.667	26.42	20.39	46.81	90.47	43.66	Peak
6	13.773	22.92	20.39	43.31	80.51	37.20	Peak

Perpendicular:



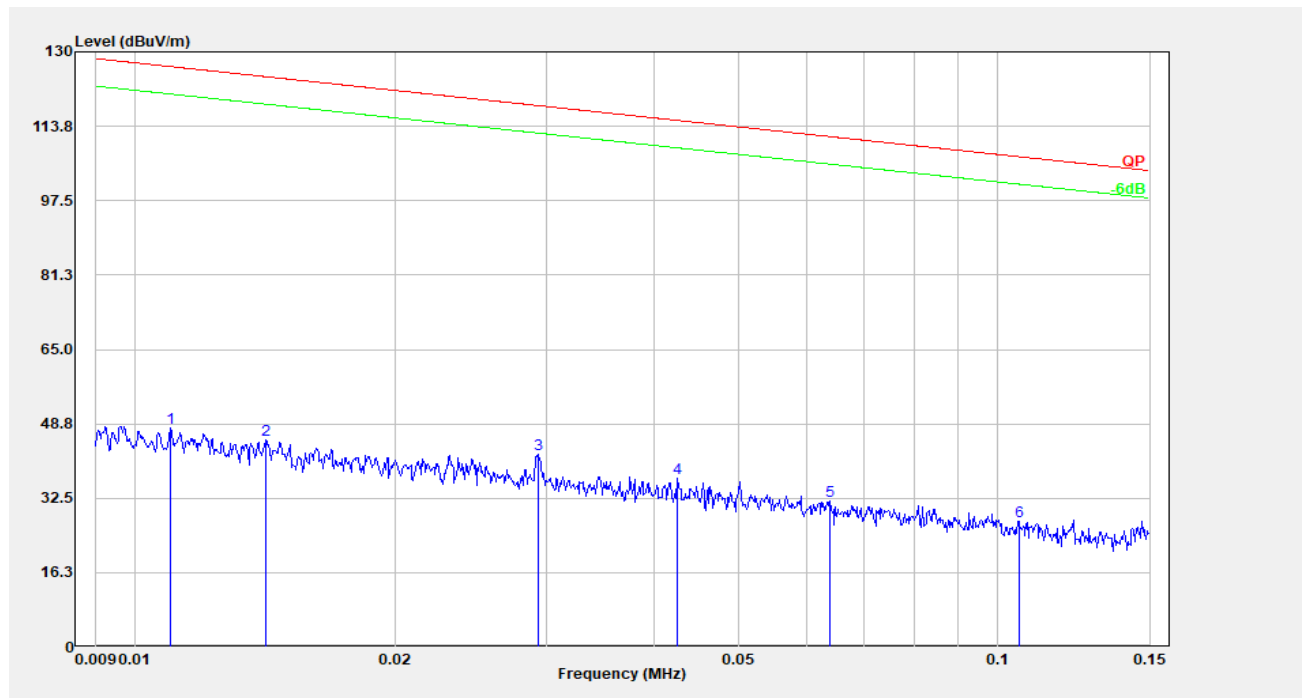
No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	0.011	28.74	20.51	49.25	126.96	77.70	Peak
2	0.019	21.73	20.51	42.24	122.14	79.91	Peak
3	0.029	19.38	20.41	39.79	118.28	78.49	Peak
4	0.048	15.29	20.41	35.70	114.05	78.35	Peak
5	0.065	15.75	20.42	36.17	111.29	75.12	Peak
6	0.126	9.87	20.22	30.09	105.62	75.53	Peak



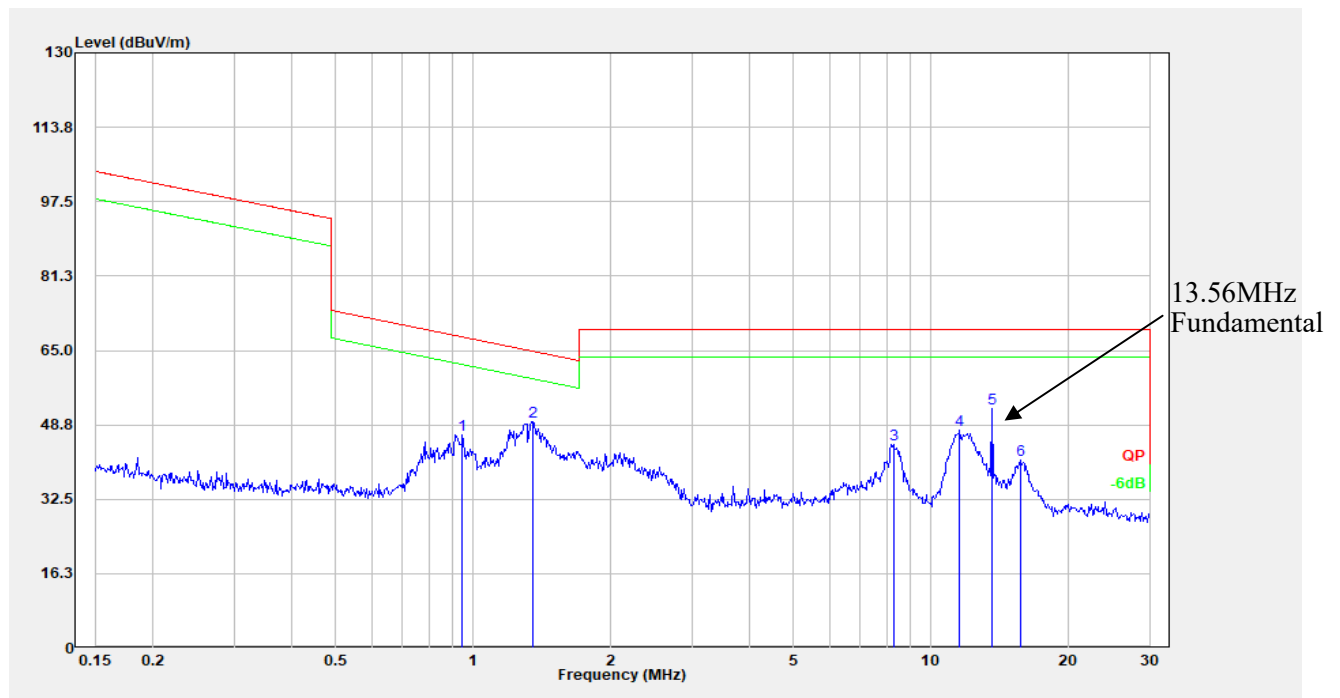


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	13.349	542.64	-499.79	42.86	80.51	37.65	Peak
2	13.455	546.88	-499.79	47.10	90.47	43.37	Peak
3	13.561	560.19	-499.78	60.41	124.00	63.59	Peak
4	13.668	546.94	-499.78	47.16	90.47	43.31	Peak
5	13.773	542.50	-499.78	42.72	80.51	37.79	Peak
6	13.984	535.88	-499.78	36.10	80.51	44.41	Peak

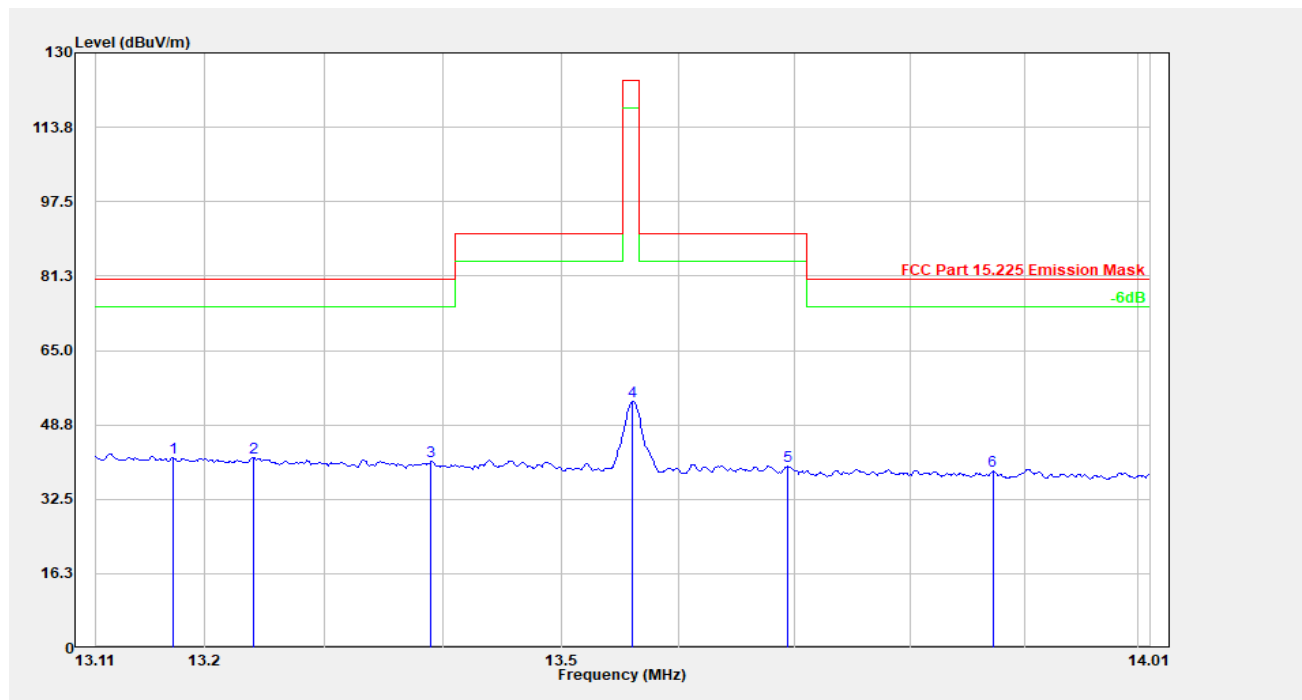
Ground-parallel:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.011	27.26	20.51	47.77	126.78	79.01	Peak
2	0.014	24.75	20.51	45.26	124.59	79.32	Peak
3	0.029	21.59	20.41	42.00	118.26	76.25	Peak
4	0.043	16.35	20.41	36.76	115.03	78.27	Peak
5	0.064	11.55	20.41	31.96	111.49	79.53	Peak
6	0.106	7.18	20.22	27.40	107.11	79.71	Peak



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.948	26.63	20.03	46.66	67.95	21.28	Peak
2	1.352	29.60	19.97	49.57	64.80	15.23	Peak
3	8.279	24.32	20.16	44.48	69.54	25.06	Peak
4	11.559	27.16	20.34	47.50	69.54	22.04	Peak
5	13.551	31.95	20.39	52.34	69.54	17.20	Peak
6	15.718	20.54	20.42	40.96	69.54	28.58	Peak



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	13.174	21.13	20.38	41.50	80.51	39.01	Peak
2	13.241	21.31	20.38	41.68	80.51	38.83	Peak
3	13.390	20.41	20.38	40.80	80.51	39.71	Peak
4	13.561	33.42	20.39	53.81	124.00	70.19	Peak
5	13.694	19.24	20.39	39.63	90.47	50.84	Peak
6	13.872	18.21	20.40	38.60	80.51	41.91	Peak

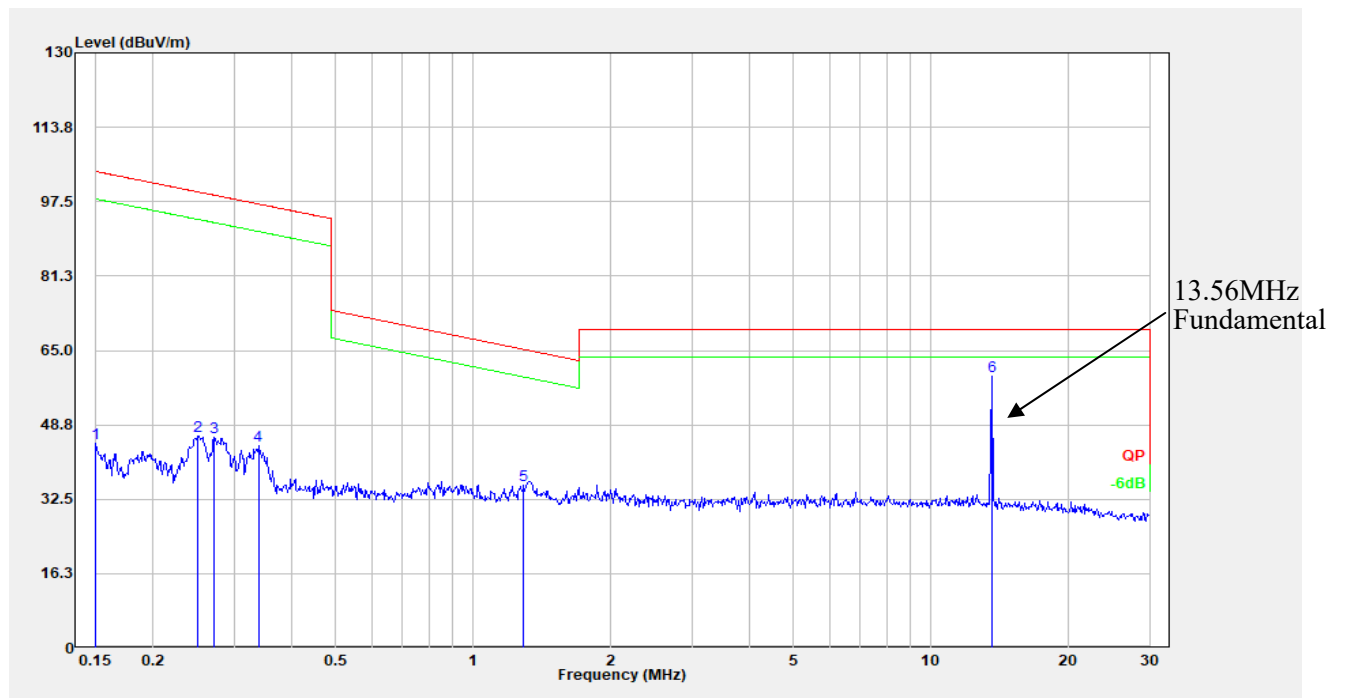
A05S:

AC/DC Adapter Mode:

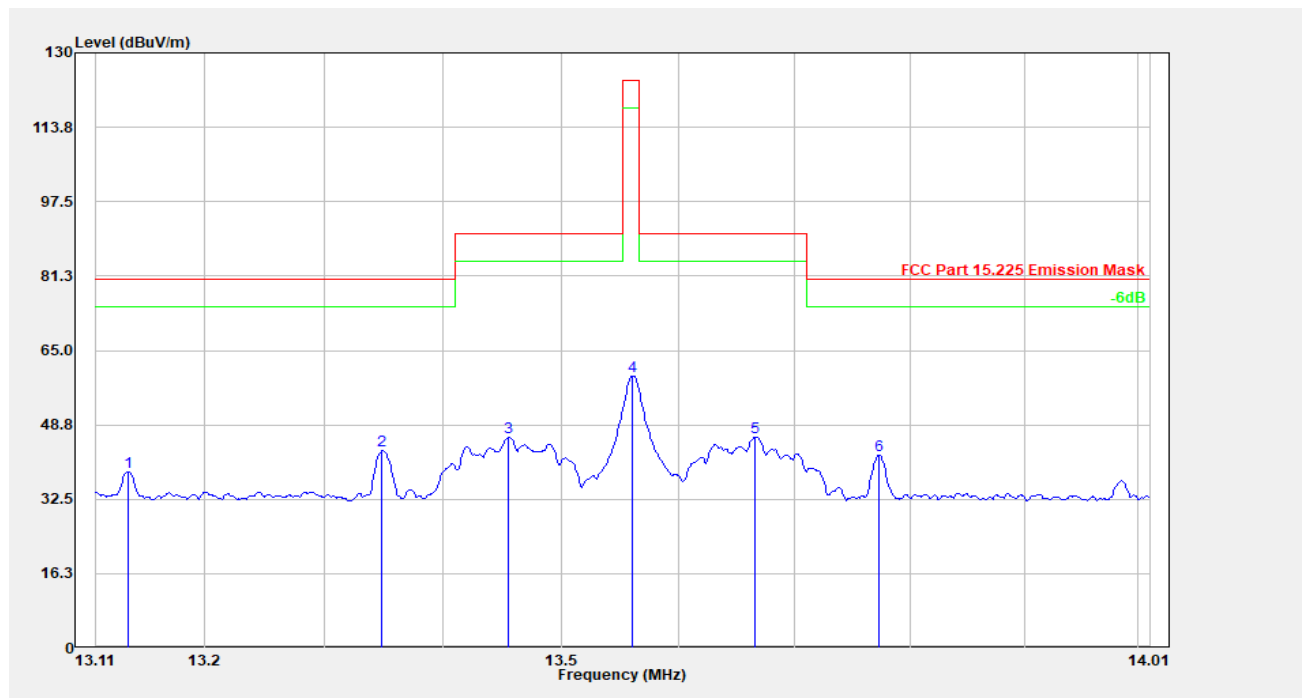
Parallel:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.011	27.83	20.51	48.34	127.05	78.71	Peak
2	0.014	24.51	20.51	45.02	124.41	79.39	Peak
3	0.029	21.69	20.41	42.10	118.26	76.16	Peak
4	0.050	35.58	20.41	55.99	113.64	57.65	Peak
5	0.098	26.97	20.24	47.21	107.82	60.61	Peak
6	0.137	20.84	20.22	41.06	104.89	63.83	Peak

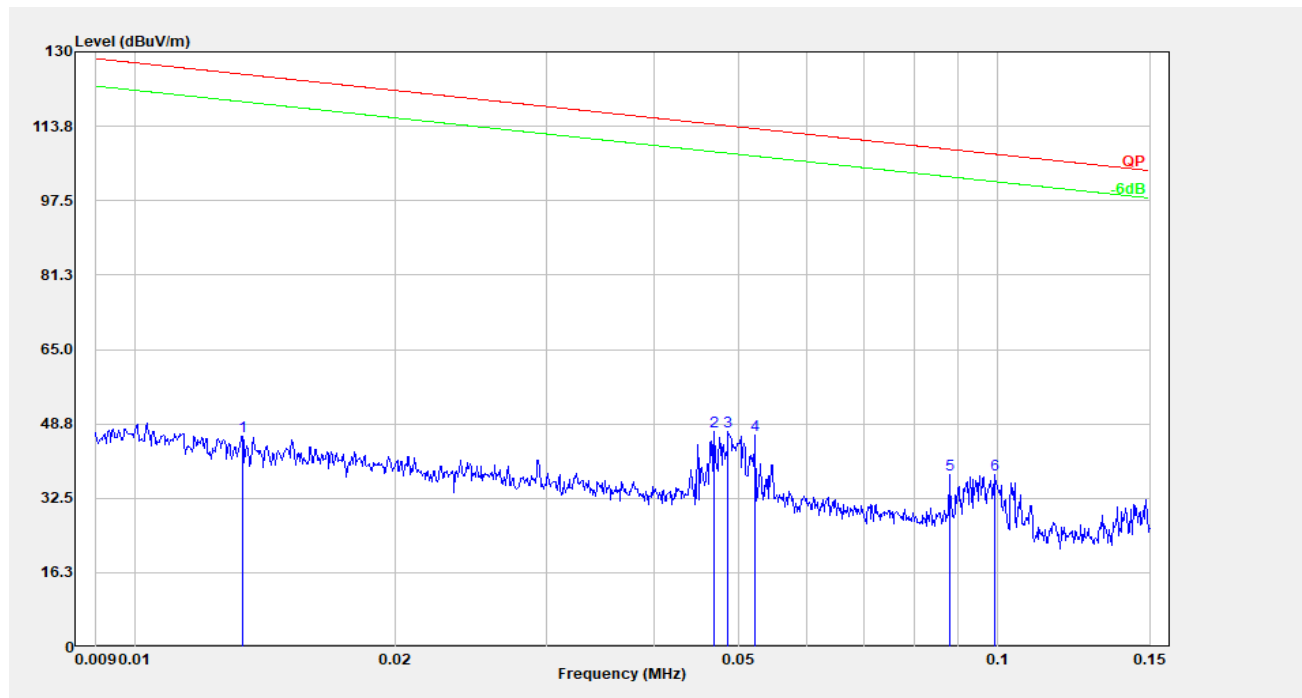


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.150	24.41	20.22	44.63	104.08	59.45	Peak
2	0.251	26.11	20.12	46.23	99.62	53.38	Peak
3	0.272	26.01	20.12	46.13	98.93	52.80	Peak
4	0.339	24.09	20.10	44.19	97.00	52.80	Peak
5	1.289	15.60	19.98	35.58	65.22	29.64	Peak
6	13.551	38.88	20.39	59.27	69.54	10.27	Peak

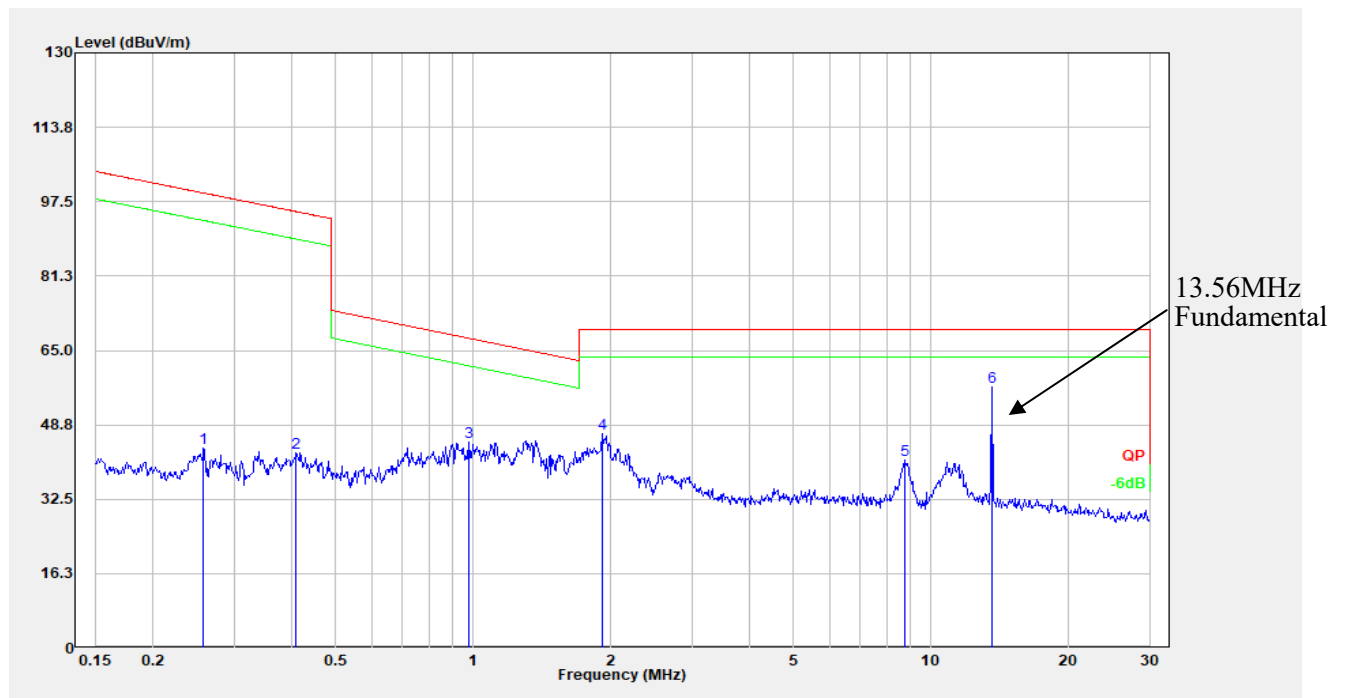


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	13.137	18.18	20.37	38.55	80.51	41.96	Peak
2	13.349	22.66	20.38	43.04	80.51	37.47	Peak
3	13.456	25.69	20.38	46.08	90.47	44.39	Peak
4	13.561	39.10	20.39	59.49	124.00	64.51	Peak
5	13.666	25.67	20.39	46.06	90.47	44.41	Peak
6	13.773	21.74	20.39	42.14	80.51	38.37	Peak

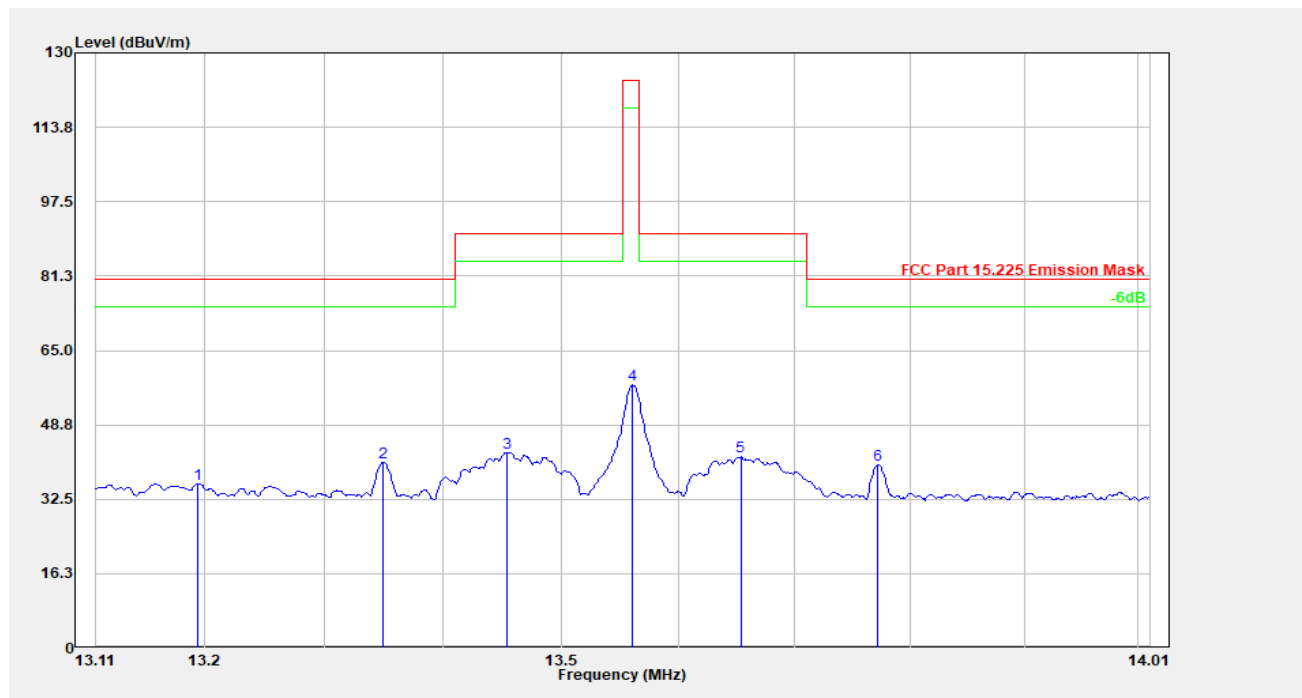
Perpendicular:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.013	25.47	20.51	45.98	125.12	79.14	Peak
2	0.047	26.70	20.41	47.11	114.18	67.07	Peak
3	0.049	26.70	20.41	47.11	113.86	66.75	Peak
4	0.052	25.79	20.41	46.20	113.22	67.02	Peak
5	0.088	17.45	20.30	37.75	108.73	70.98	Peak
6	0.099	17.32	20.23	37.54	107.67	70.13	Peak

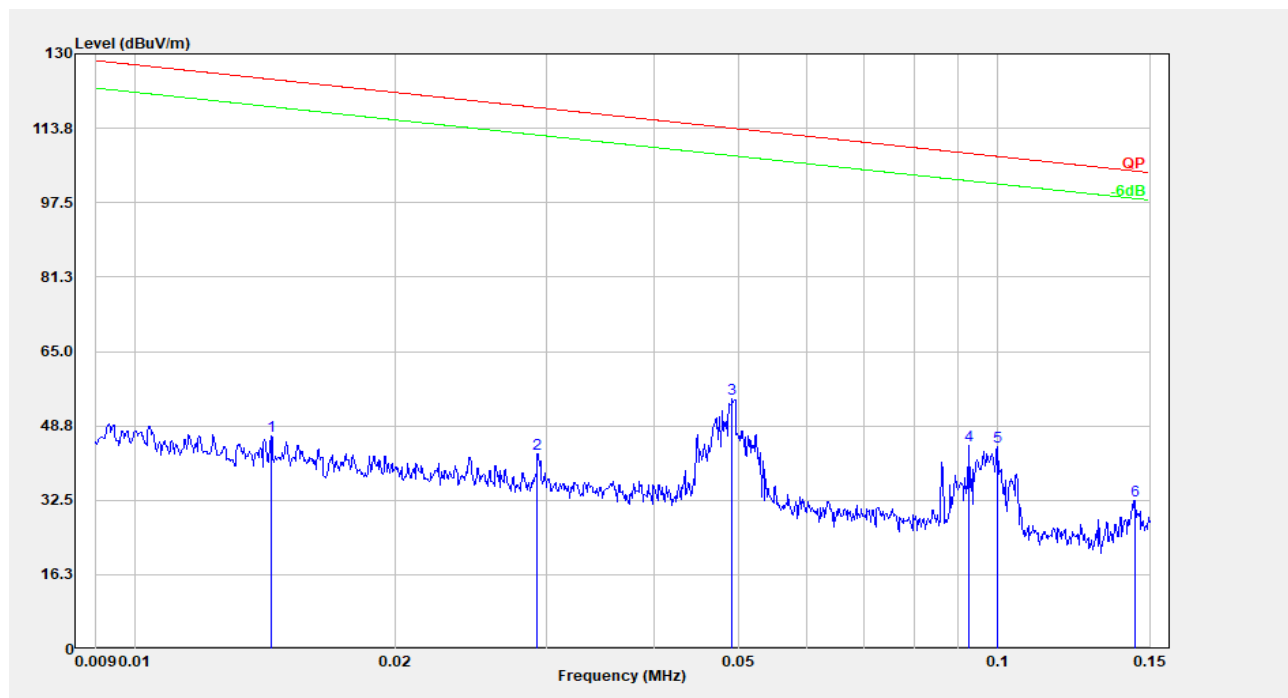


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.258	23.49	20.12	43.61	99.39	55.78	Peak
2	0.410	22.49	20.06	42.55	95.34	52.79	Peak
3	0.979	24.92	20.03	44.95	67.66	22.72	Peak
4	1.918	26.79	19.96	46.75	69.54	22.79	Peak
5	8.776	20.89	20.20	41.09	69.54	28.45	Peak
6	13.551	36.57	20.39	56.96	69.54	12.58	Peak

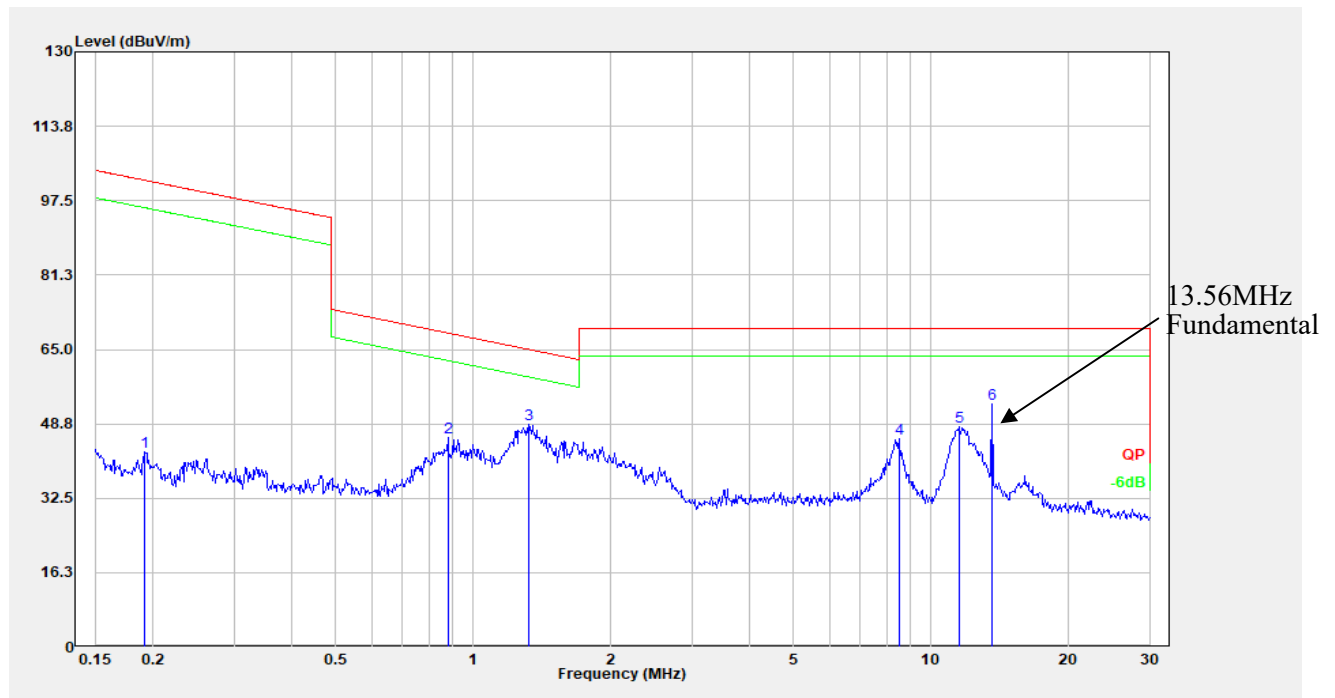


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	13.195	15.52	20.38	35.89	80.51	44.62	Peak
2	13.349	20.16	20.38	40.55	80.51	39.96	Peak
3	13.454	22.37	20.38	42.75	90.47	47.72	Peak
4	13.561	37.05	20.39	57.43	124.00	66.57	Peak
5	13.654	21.37	20.39	41.76	90.47	48.71	Peak
6	13.772	19.60	20.39	40.00	80.51	40.51	Peak

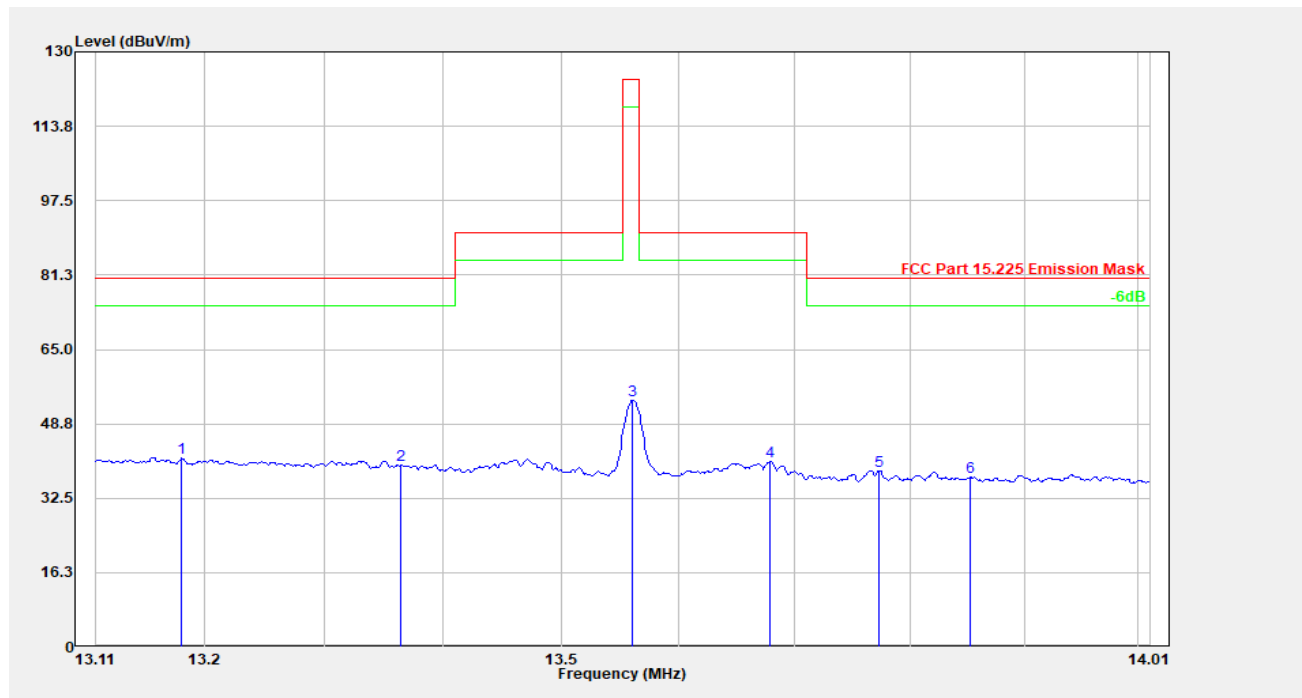
Ground-parallel:



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	0.014	26.04	20.51	46.55	124.46	77.92	Peak
2	0.029	22.35	20.41	42.76	118.28	75.52	Peak
3	0.049	34.37	20.41	54.78	113.76	58.98	Peak
4	0.093	24.22	20.27	44.48	108.26	63.78	Peak
5	0.100	23.86	20.22	44.08	107.60	63.52	Peak
6	0.145	12.33	20.22	32.55	104.40	71.85	Peak

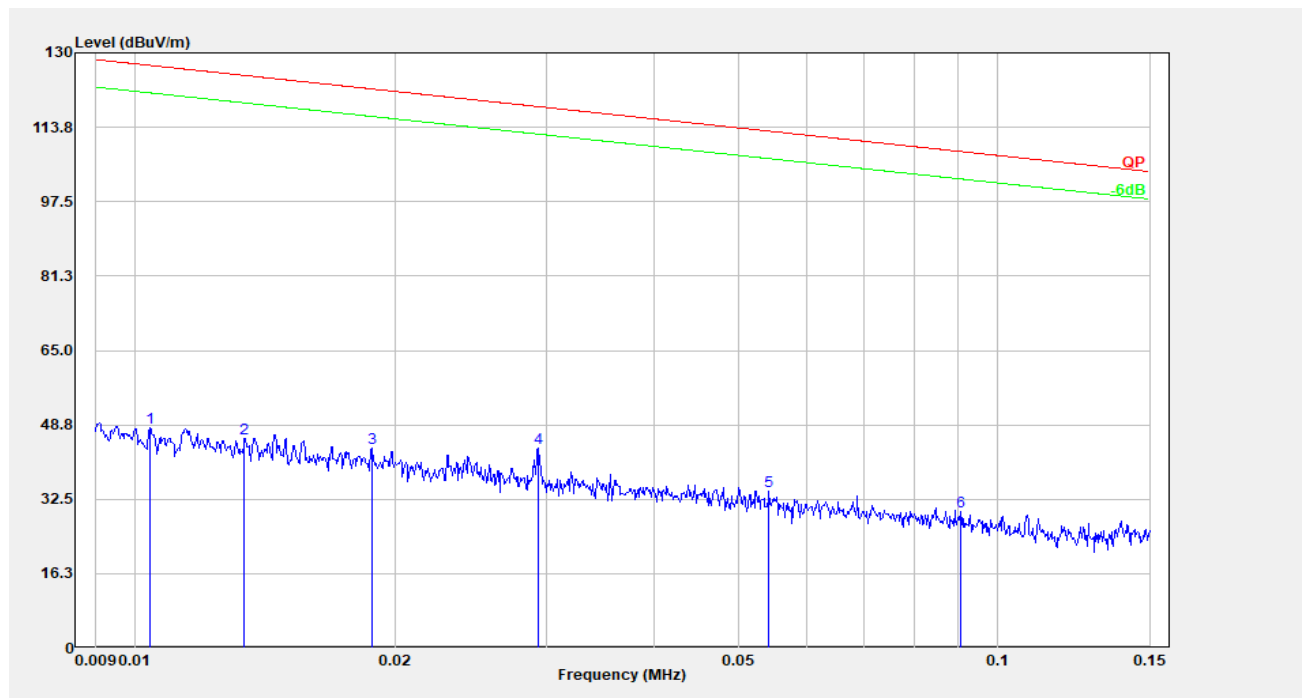


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	0.191	22.40	20.22	42.62	101.97	59.35	Peak
2	0.880	25.74	20.03	45.77	68.60	22.83	Peak
3	1.324	28.71	19.97	48.68	64.98	16.30	Peak
4	8.501	25.36	20.18	45.53	69.54	24.01	Peak
5	11.498	27.70	20.33	48.03	69.54	21.51	Peak
6	13.551	32.79	20.39	53.18	69.54	16.36	Peak

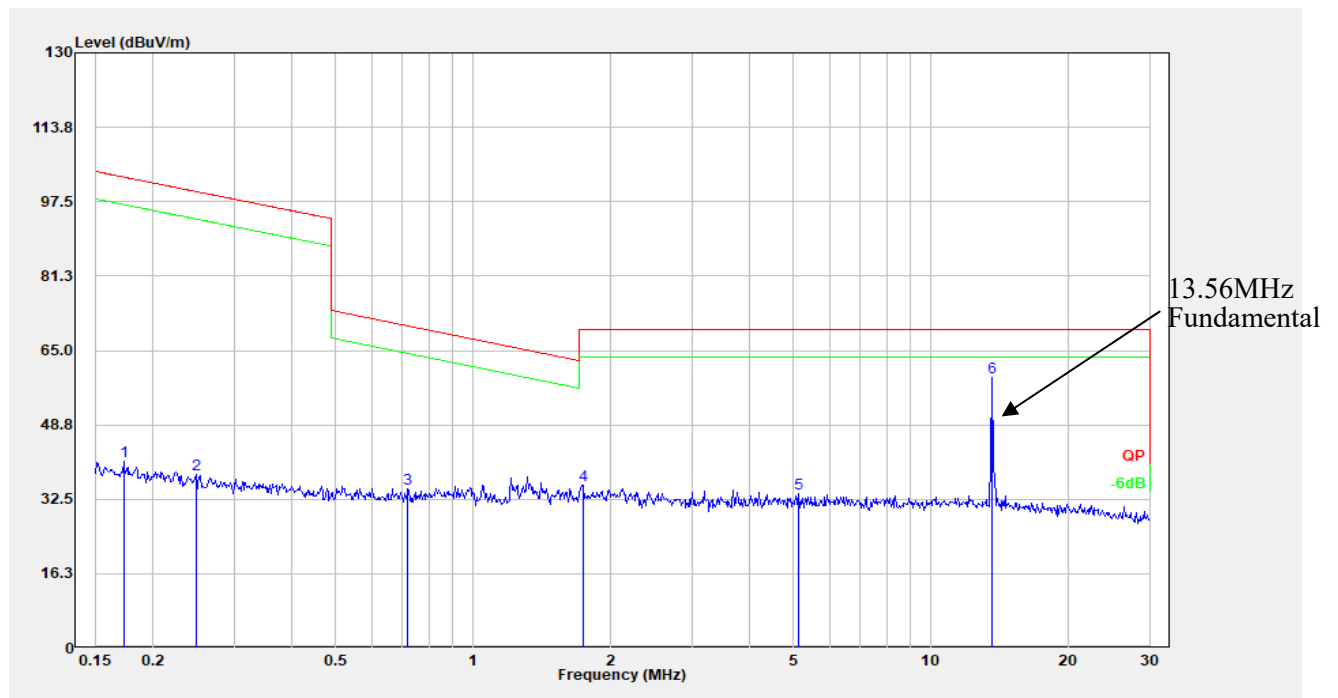


No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	13.181	20.83	20.38	41.21	80.51	39.30	Peak
2	13.365	19.36	20.38	39.75	80.51	40.76	Peak
3	13.561	33.50	20.39	53.88	124.00	70.12	Peak
4	13.679	20.06	20.39	40.45	90.47	50.02	Peak
5	13.773	18.18	20.39	38.58	80.51	41.93	Peak
6	13.853	16.68	20.40	37.08	80.51	43.43	Peak

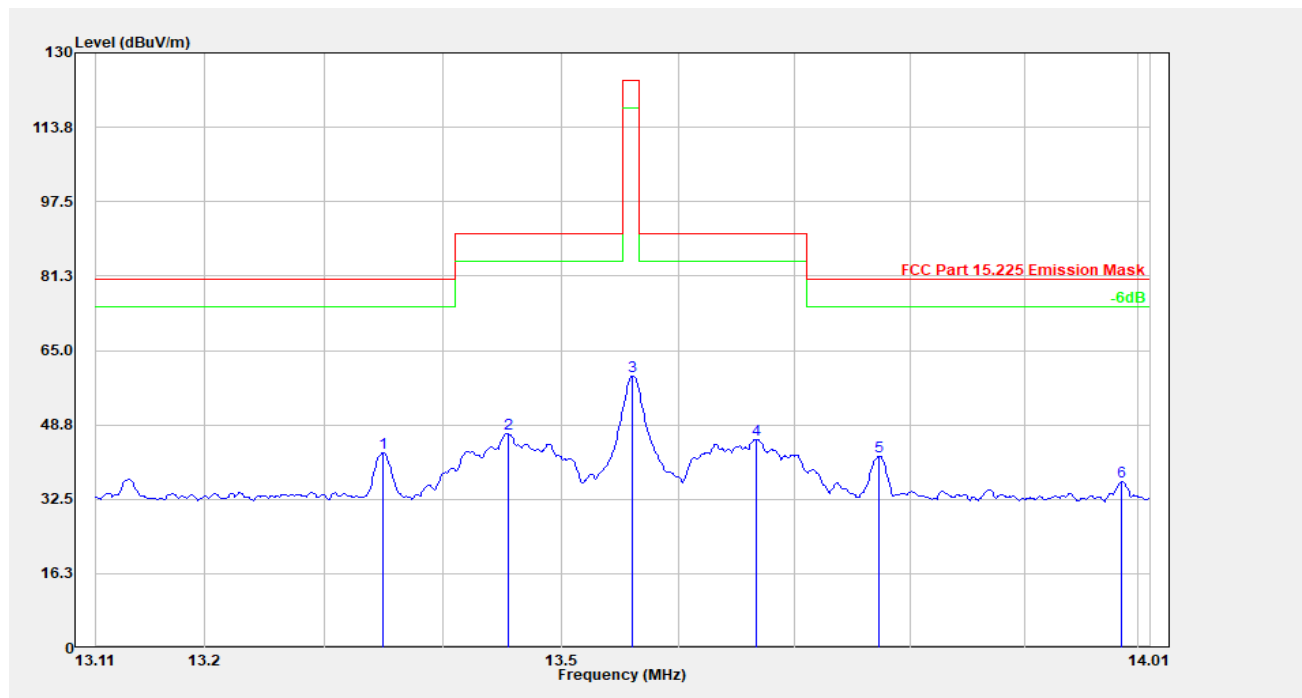
POE Adapter Mode:
Parallel:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.010	27.51	20.51	48.02	127.27	79.25	Peak
2	0.013	25.39	20.51	45.90	125.07	79.17	Peak
3	0.019	23.23	20.51	43.74	122.12	78.38	Peak
4	0.029	23.30	20.41	43.71	118.26	74.54	Peak
5	0.054	13.83	20.41	34.24	112.90	78.66	Peak
6	0.091	9.44	20.28	29.73	108.46	78.73	Peak

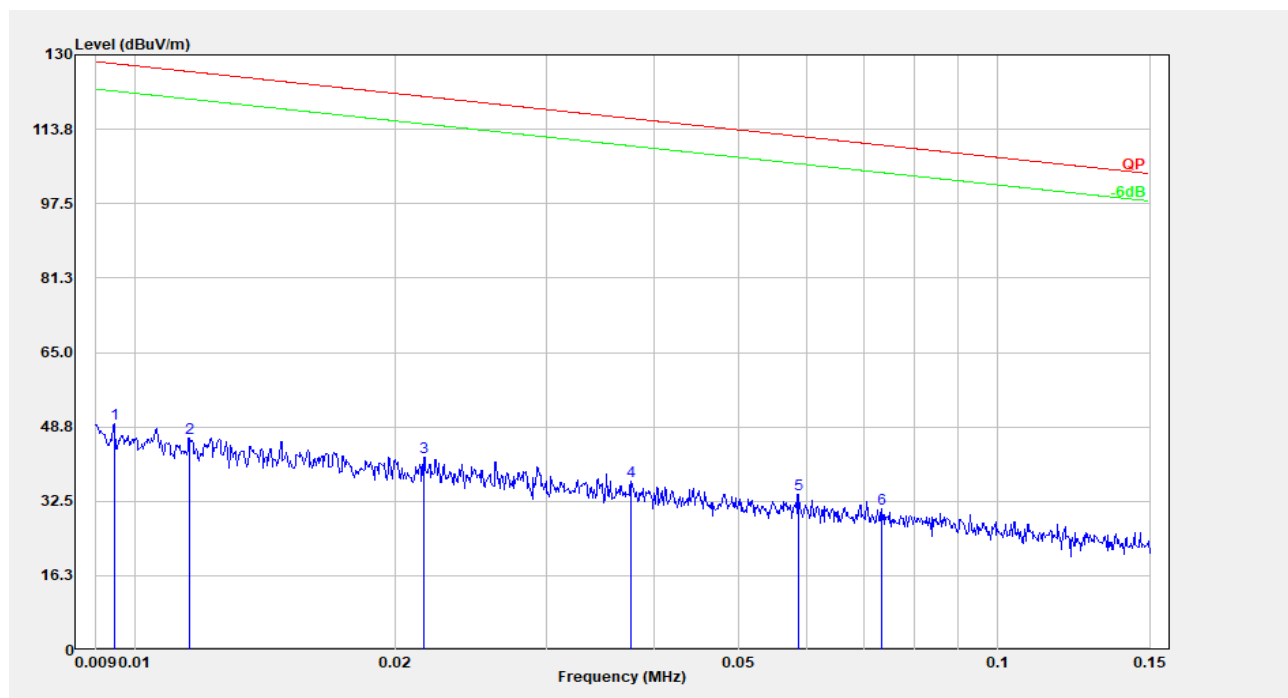


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.172	20.59	20.22	40.81	102.89	62.08	Peak
2	0.248	17.80	20.12	37.93	99.71	61.78	Peak
3	0.720	14.88	20.03	34.91	70.39	35.48	Peak
4	1.734	15.68	19.95	35.63	69.54	33.91	Peak
5	5.139	13.69	20.03	33.73	69.54	35.81	Peak
6	13.551	38.75	20.39	59.14	69.54	10.40	Peak

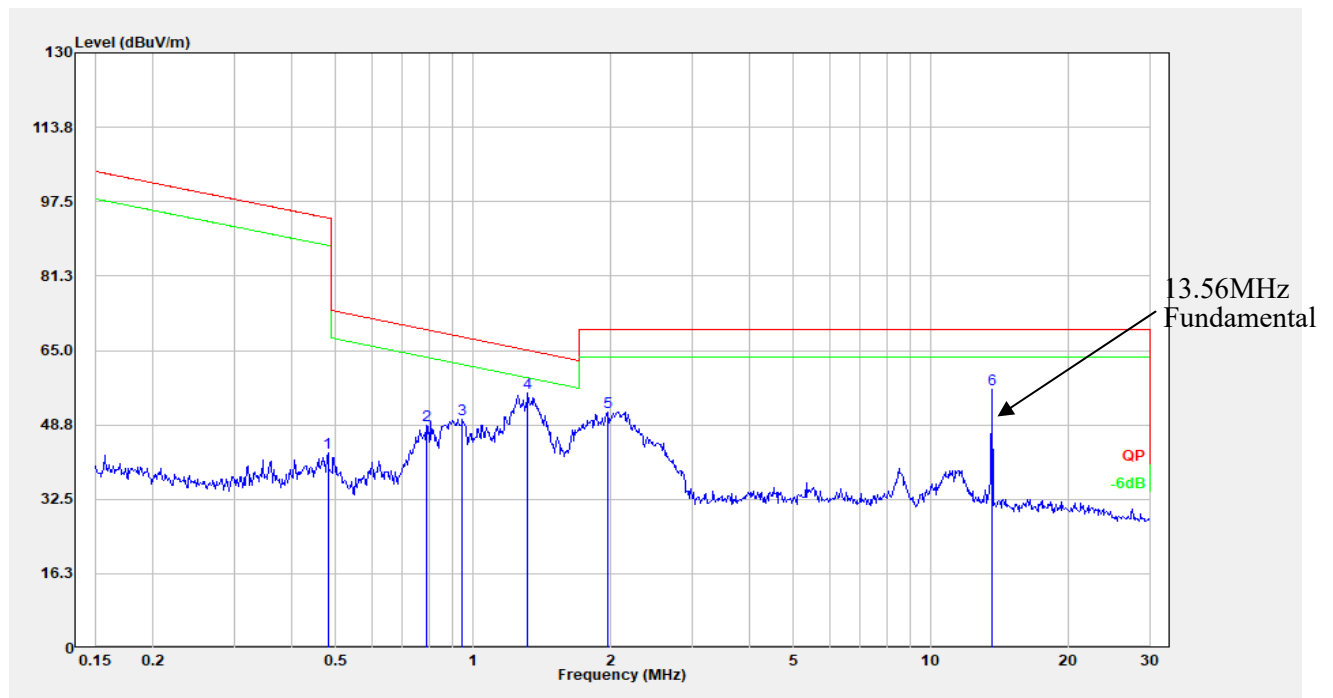


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	13.349	22.27	20.38	42.65	80.51	37.86	Peak
2	13.455	26.52	20.38	46.91	90.47	43.56	Peak
3	13.561	39.08	20.39	59.47	124.00	64.53	Peak
4	13.667	25.23	20.39	45.62	90.47	44.85	Peak
5	13.773	21.55	20.39	41.95	80.51	38.56	Peak
6	13.986	16.04	20.40	36.44	80.51	44.07	Peak

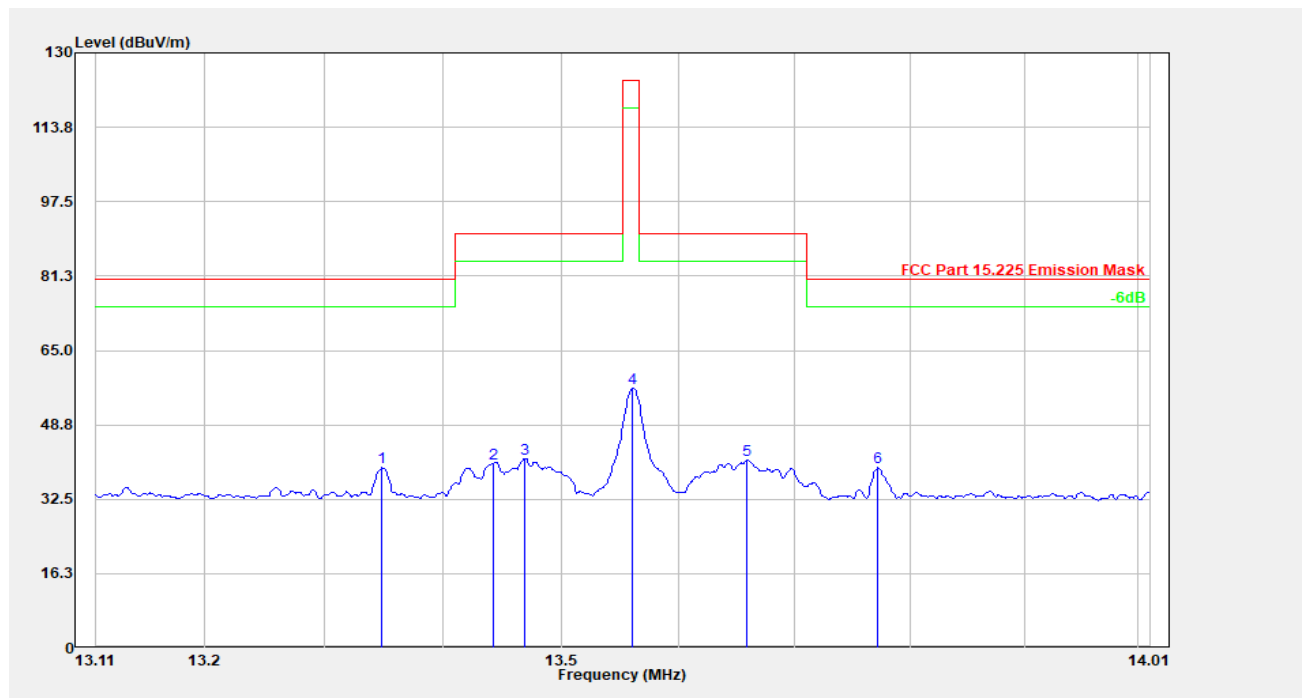
Perpendicular:



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	0.009	28.81	20.51	49.32	128.10	78.78	Peak
2	0.012	25.71	20.51	46.22	126.35	80.12	Peak
3	0.022	21.68	20.48	42.16	120.92	78.76	Peak
4	0.038	16.56	20.41	36.97	116.11	79.13	Peak
5	0.059	13.59	20.41	34.00	112.22	78.22	Peak
6	0.073	10.41	20.40	30.81	110.29	79.48	Peak

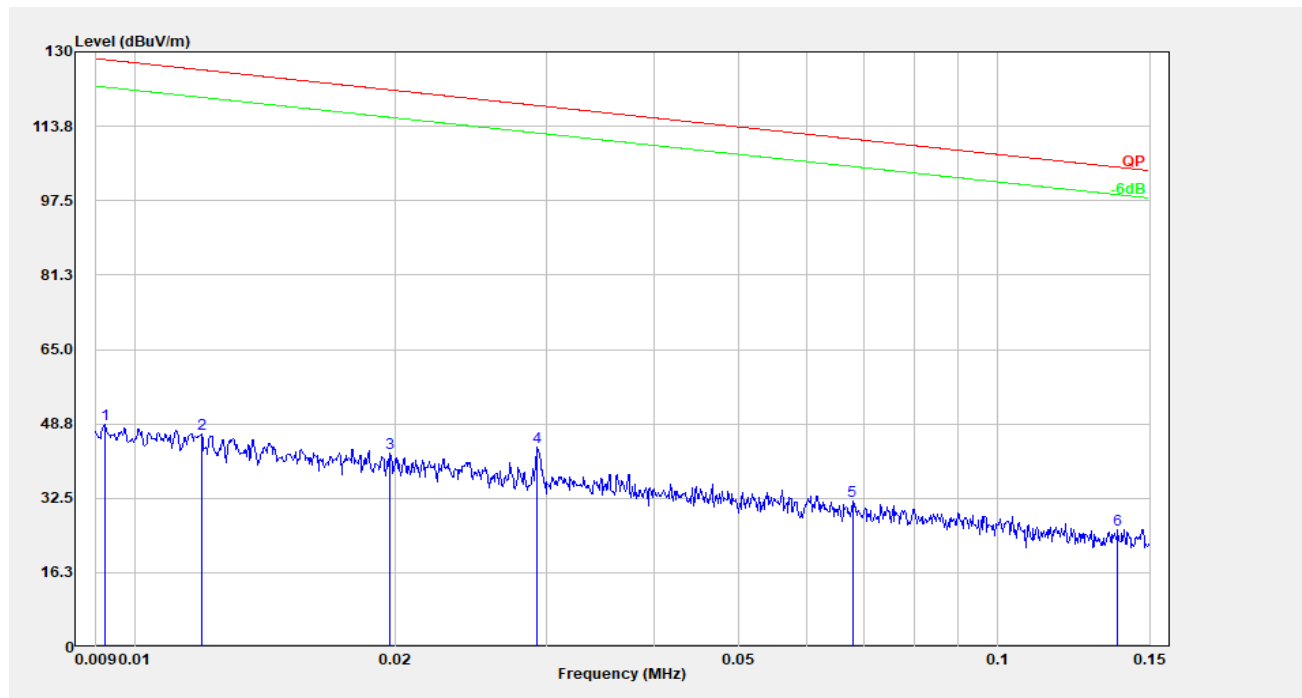


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.481	22.71	20.03	42.73	93.96	51.22	Peak
2	0.792	28.68	20.03	48.71	69.54	20.83	Peak
3	0.948	29.98	20.03	50.01	67.95	17.93	Peak
4	1.317	35.73	19.98	55.71	65.03	9.32	Peak
5	1.970	31.68	19.96	51.64	69.54	17.90	Peak
6	13.551	36.06	20.39	56.44	69.54	13.10	Peak

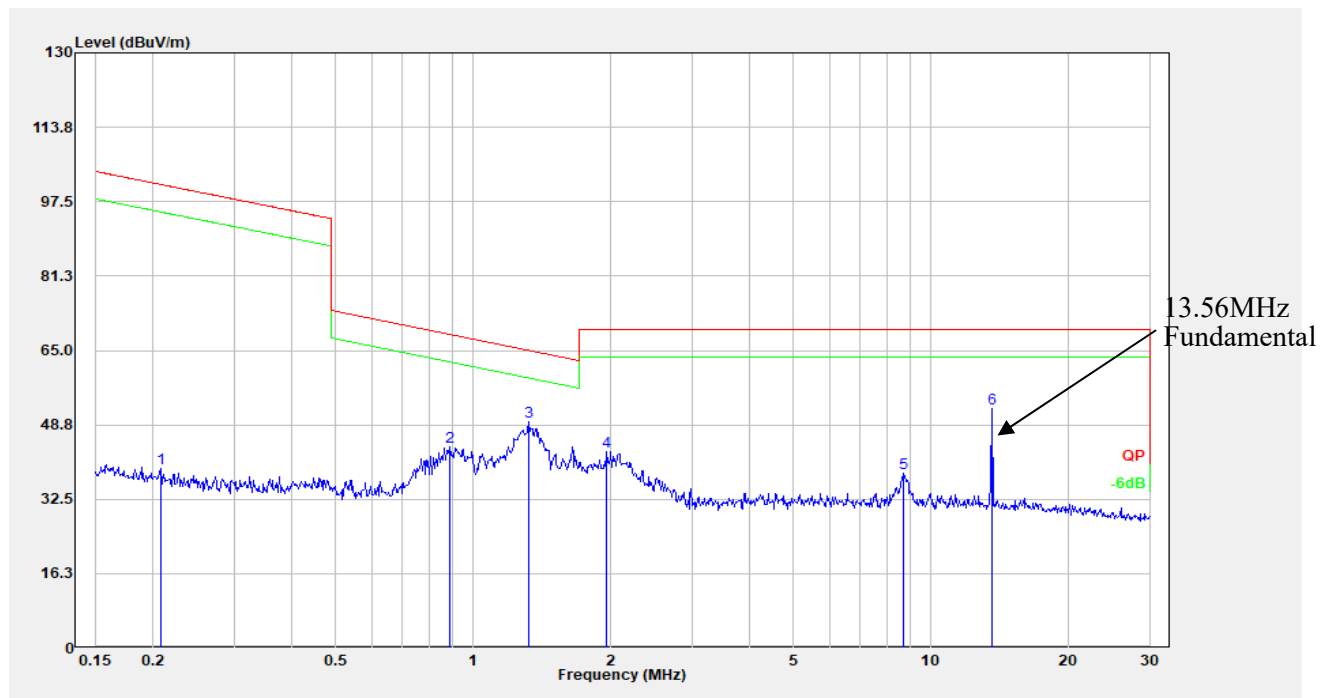


No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	13.349	19.03	20.38	39.41	80.51	41.10	Peak
2	13.442	19.93	20.38	40.32	90.47	50.15	Peak
3	13.469	21.07	20.38	41.45	90.47	49.02	Peak
4	13.561	36.38	20.39	56.77	124.00	67.23	Peak
5	13.659	20.63	20.39	41.02	90.47	49.45	Peak
6	13.772	18.98	20.39	39.38	80.51	41.13	Peak

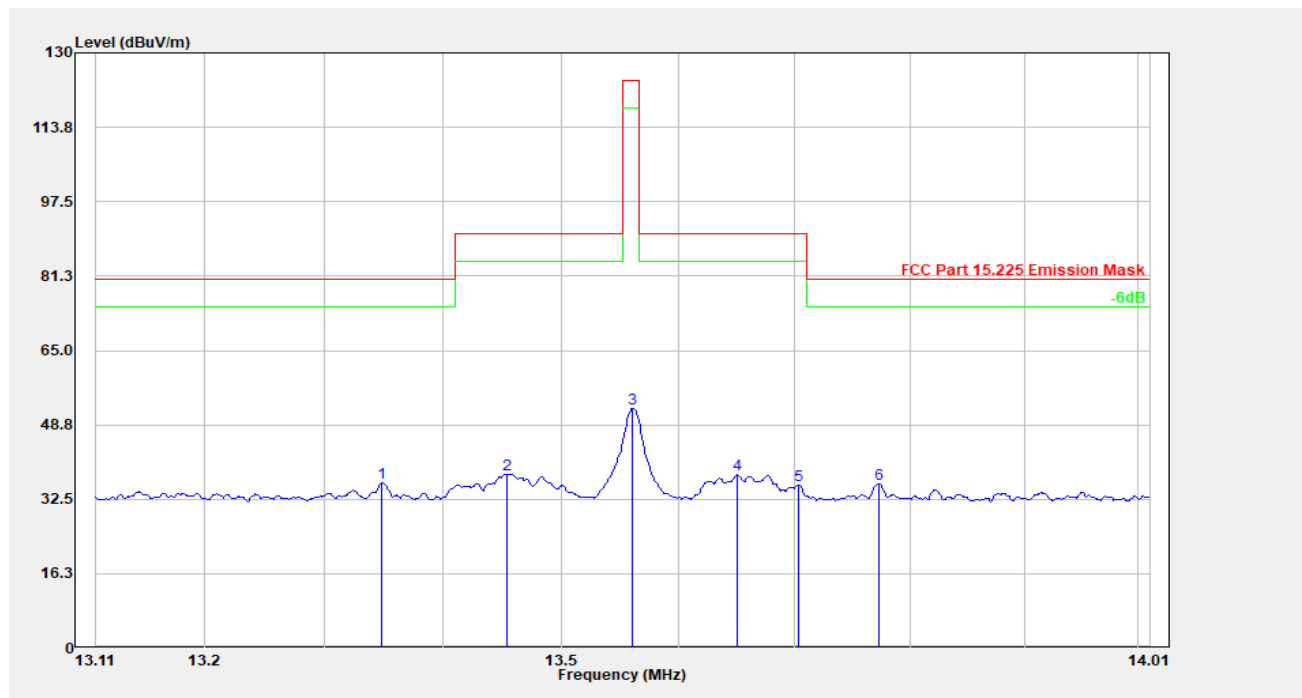
Ground-parallel:



No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB(S/m))	Result (dB μ A/m)	Limit (dB μ A/m)	Margin (dB)	Detector
1	0.009	28.20	20.51	48.71	128.32	79.62	Peak
2	0.012	25.92	20.51	46.43	126.08	79.64	Peak
3	0.020	21.92	20.51	42.43	121.70	79.27	Peak
4	0.029	23.28	20.41	43.69	118.28	74.59	Peak
5	0.068	11.48	20.42	31.90	110.97	79.08	Peak
6	0.138	5.46	20.22	25.68	104.82	79.13	Peak



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.208	19.11	20.20	39.31	101.23	61.92	Peak
2	0.890	23.93	20.03	43.96	68.51	24.55	Peak
3	1.324	29.36	19.97	49.33	64.98	15.65	Peak
4	1.959	22.83	19.96	42.79	69.54	26.75	Peak
5	8.729	17.87	20.19	38.06	69.54	31.48	Peak
6	13.551	31.93	20.39	52.31	69.54	17.23	Peak



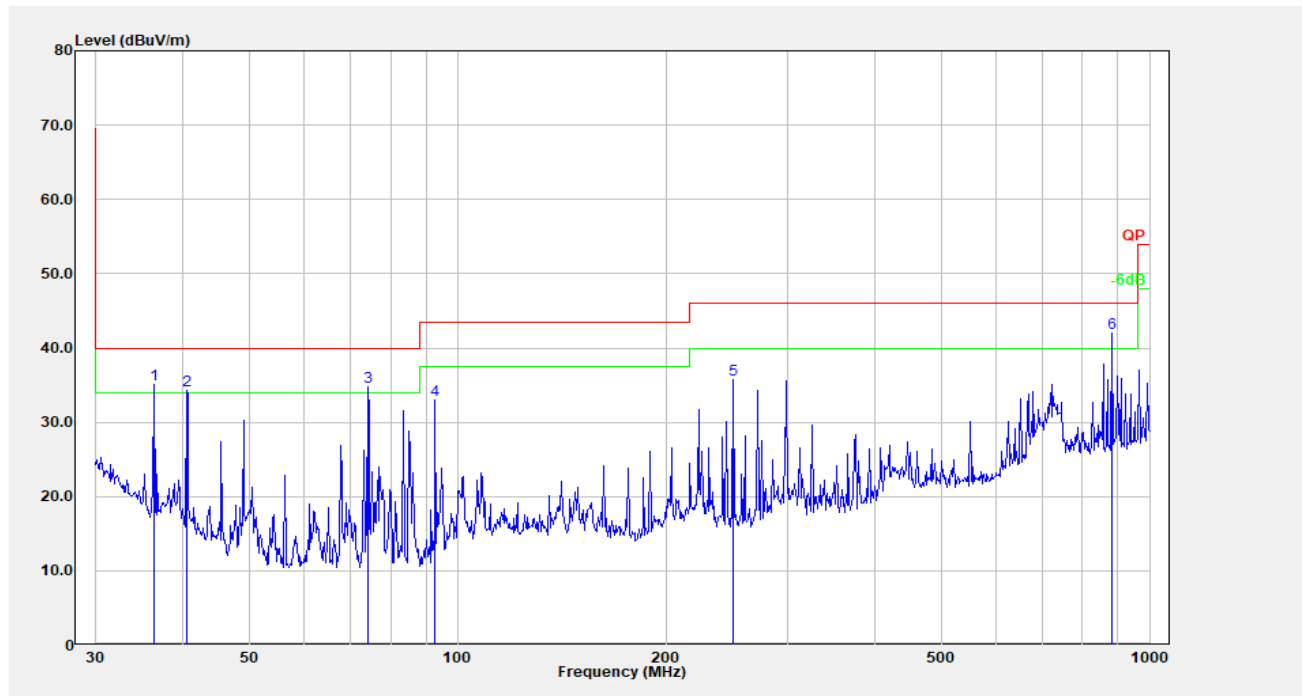
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	13.349	15.83	20.38	36.21	80.51	44.30	Peak
2	13.454	17.64	20.38	38.02	90.47	52.45	Peak
3	13.561	31.95	20.39	52.34	124.00	71.66	Peak
4	13.651	17.41	20.39	37.80	90.47	52.67	Peak
5	13.703	15.26	20.39	35.65	90.47	54.82	Peak
6	13.773	15.47	20.39	35.87	80.51	44.64	Peak

2) Above 30 MHz

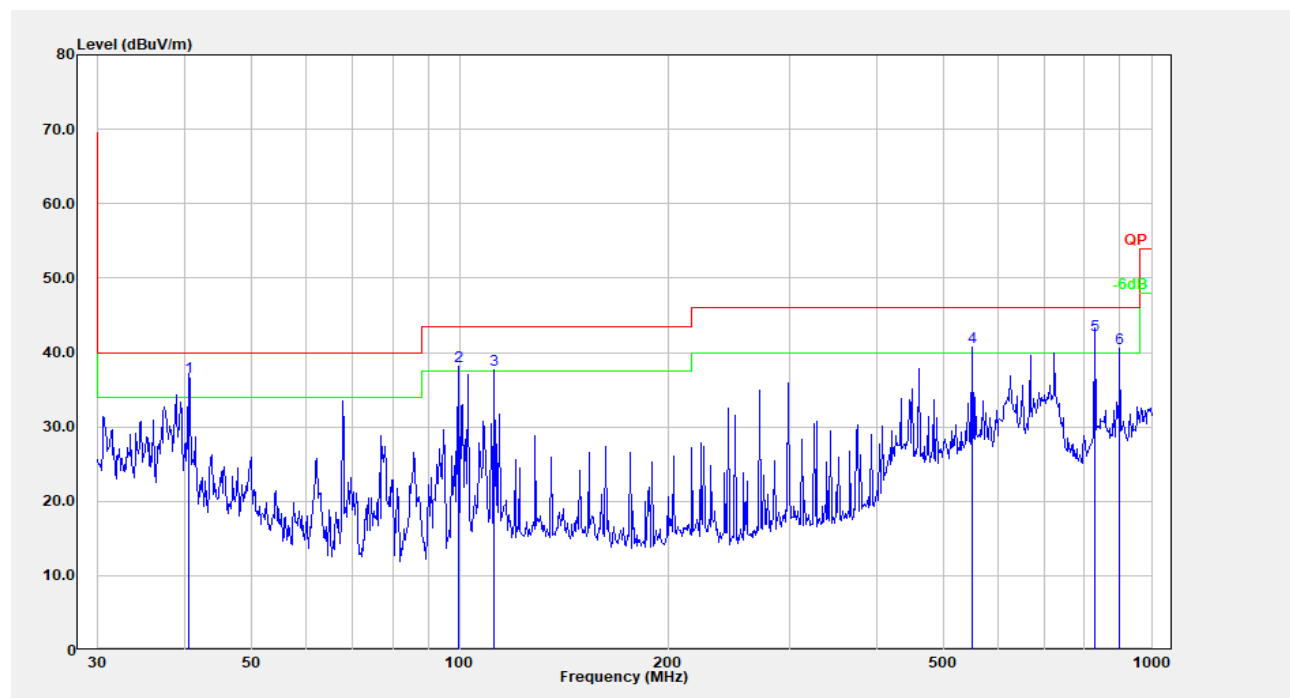
E16S:

AC/DC Adapter Mode:

Horizontal

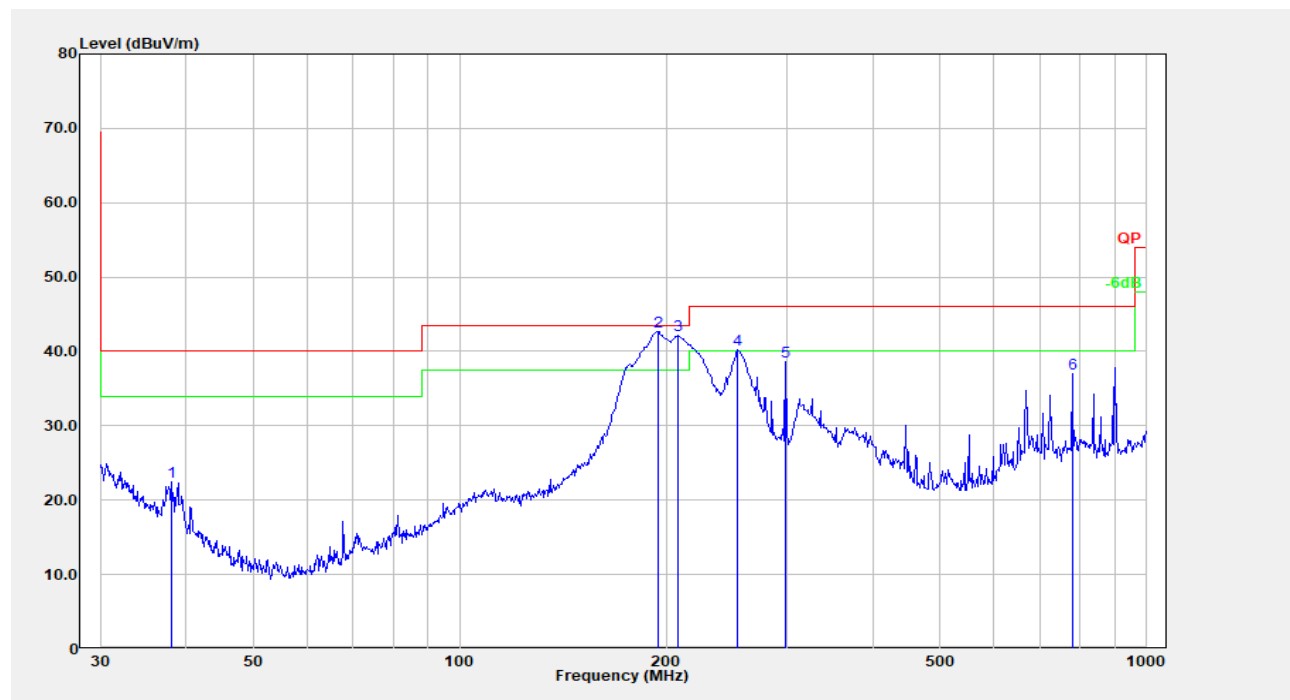


No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	36.381	43.79	-8.71	35.07	40.00	4.93	QP
2	40.559	46.09	-11.86	34.23	40.00	5.77	QP
3	74.135	51.89	-17.15	34.73	40.00	5.27	QP
4	92.787	49.39	-16.46	32.93	43.50	10.57	Peak
5	250.301	49.07	-13.25	35.81	46.00	10.19	Peak
6	881.407	43.46	-1.42	42.05	46.00	3.95	QP

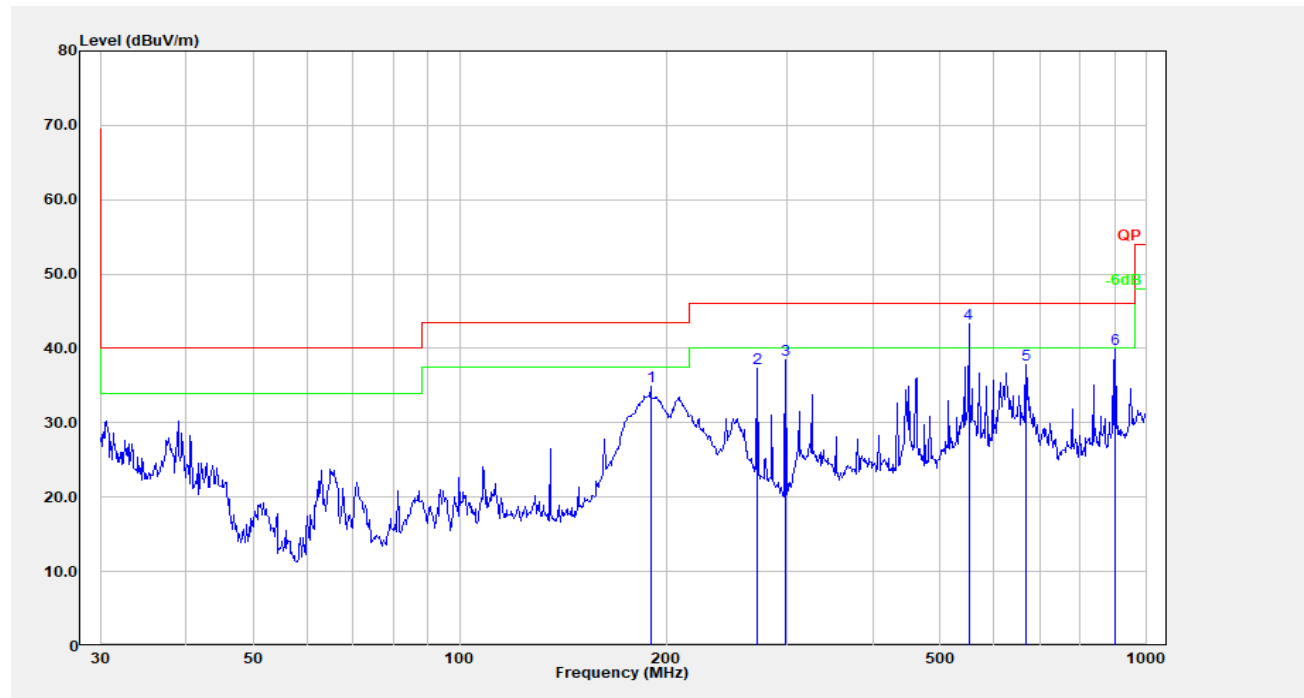
Vertical

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	40.559	48.56	-11.86	36.71	40.00	3.29	QP
2	99.528	52.76	-14.69	38.07	43.50	5.43	QP
3	112.131	50.09	-12.40	37.69	43.50	5.81	QP
4	550.948	46.70	-5.98	40.71	46.00	5.29	QP
5	827.493	44.22	-1.85	42.37	46.00	3.63	QP
6	900.147	41.77	-1.23	40.54	46.00	5.46	QP

POE Adapter Mode:

Horizontal

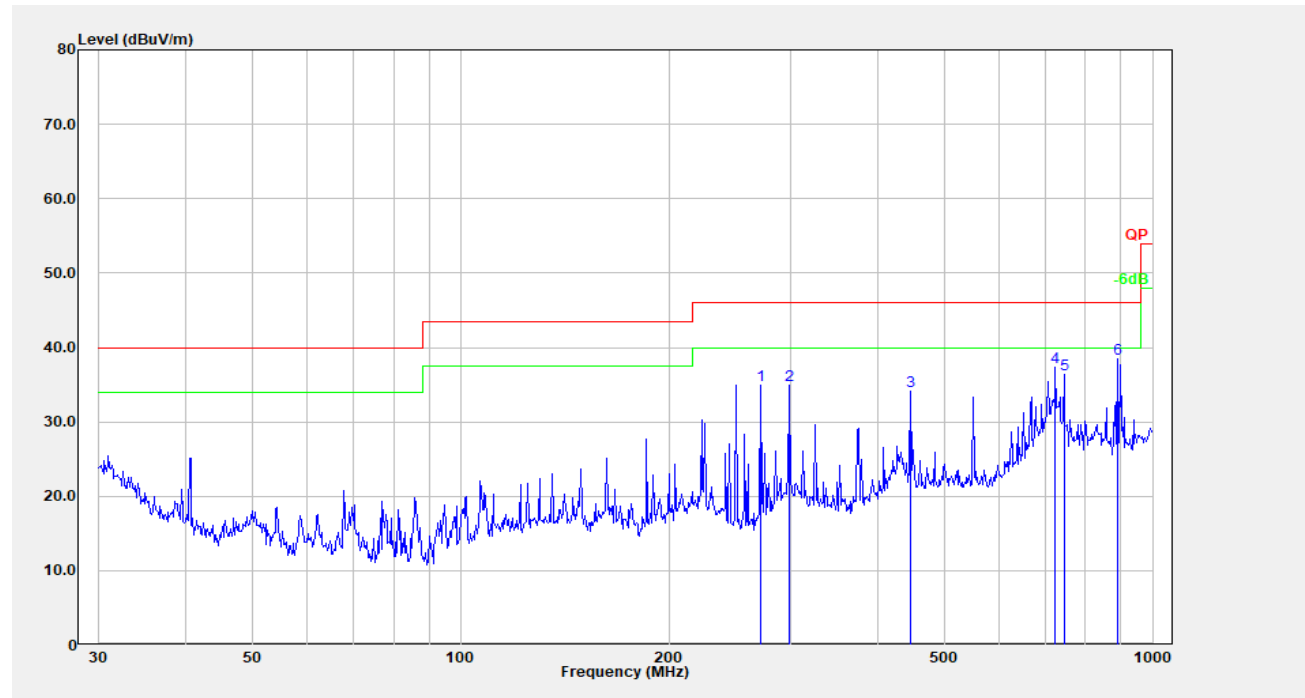
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	38.078	32.38	-9.97	22.41	40.00	17.59	Peak
2	194.453	55.70	-13.02	42.67	43.50	0.83	QP
3	207.850	54.71	-12.57	42.14	43.50	1.36	QP
4	253.837	53.23	-13.05	40.18	46.00	5.82	QP
5	298.268	49.41	-10.86	38.55	46.00	7.45	Peak
6	779.607	39.59	-2.52	37.07	46.00	8.93	Peak

Vertical

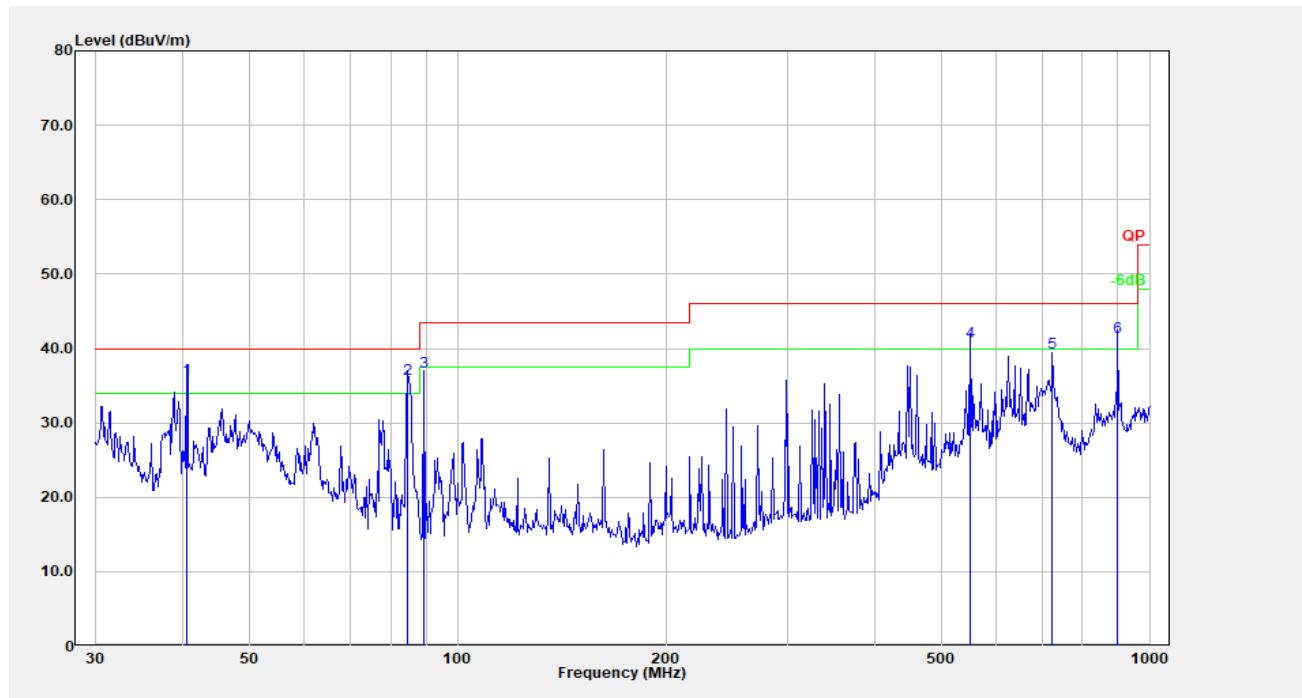
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	189.739	48.54	-13.64	34.90	43.50	8.60	Peak
2	271.325	49.52	-12.24	37.28	46.00	8.72	Peak
3	298.268	49.26	-10.86	38.41	46.00	7.59	Peak
4	550.948	49.35	-5.98	43.36	46.00	2.64	QP
5	668.142	42.21	-4.38	37.83	46.00	8.17	Peak
6	900.147	41.20	-1.23	39.97	46.00	6.03	Peak

A05S:
AC/DC Adapter Mode:

Horizontal

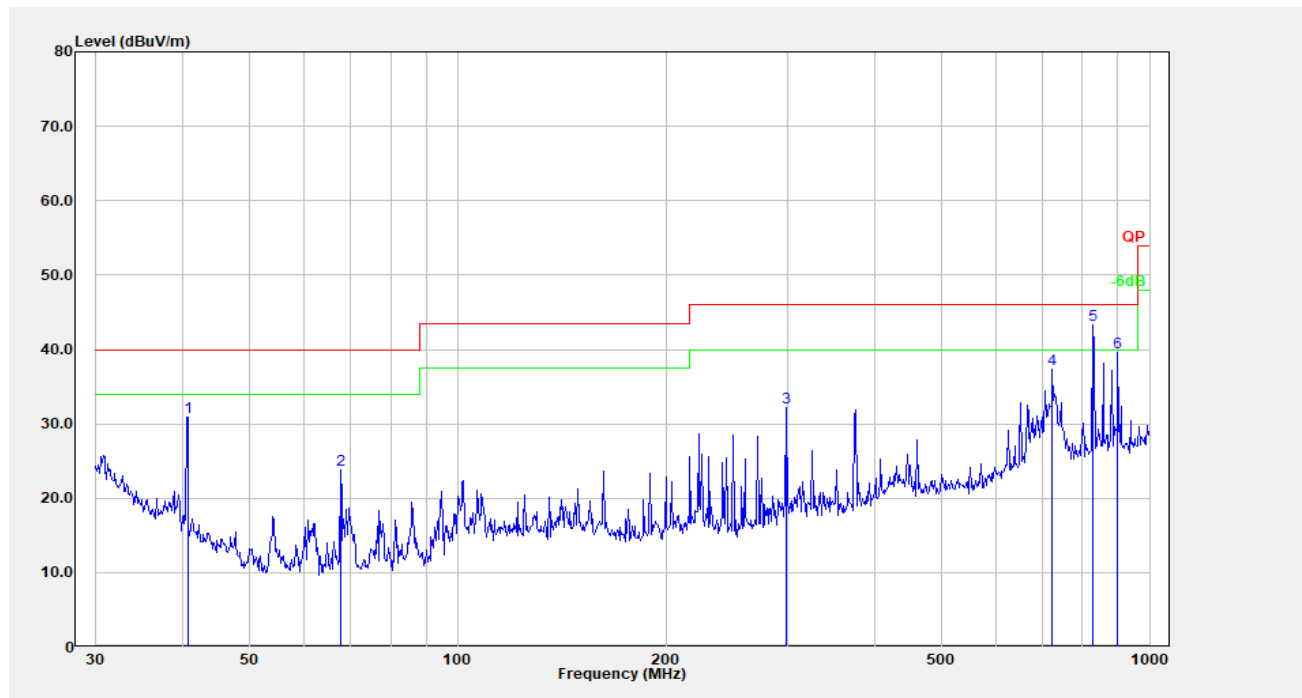


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	271.325	47.24	-12.24	35.00	46.00	11.00	Peak
2	298.268	45.79	-10.86	34.94	46.00	11.06	Peak
3	446.414	41.47	-7.30	34.17	46.00	11.83	Peak
4	724.261	40.80	-3.40	37.41	46.00	8.59	Peak
5	744.866	39.51	-3.11	36.40	46.00	9.60	Peak
6	890.728	39.90	-1.39	38.51	46.00	7.49	Peak

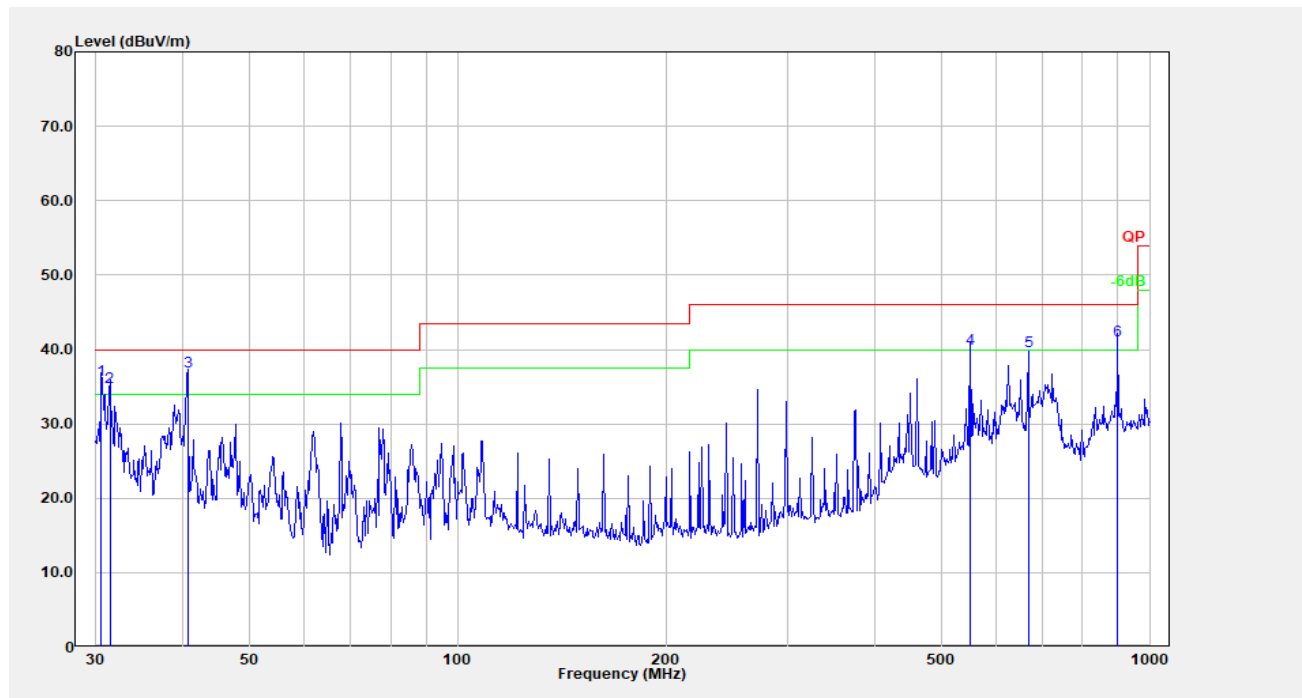
Vertical

No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	40.559	47.70	-11.86	35.84	40.00	4.16	QP
2	84.702	53.40	-17.45	35.96	40.00	4.04	QP
3	89.276	54.17	-17.23	36.94	43.50	6.56	Peak
4	550.948	46.91	-5.98	40.93	46.00	5.07	QP
5	724.261	42.80	-3.40	39.40	46.00	6.60	Peak
6	900.147	42.75	-1.23	41.52	46.00	4.48	QP

POE Adapter Mode:

Horizontal

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	40.702	42.81	-11.94	30.87	40.00	9.13	Peak
2	67.675	40.82	-16.94	23.88	40.00	16.12	Peak
3	298.268	43.04	-10.86	32.18	46.00	13.82	Peak
4	724.261	40.69	-3.40	37.29	46.00	8.71	Peak
5	827.493	45.22	-1.85	43.37	46.00	2.63	Peak
6	900.147	40.78	-1.23	39.56	46.00	6.44	Peak



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	40.03	-4.20	35.83	40.00	4.17	QP
2	31.399	39.77	-4.86	34.91	40.00	5.09	QP
3	40.702	48.91	-11.94	36.97	40.00	3.03	QP
4	550.948	46.01	-5.98	40.03	46.00	5.97	QP
5	668.142	44.21	-4.38	39.83	46.00	6.17	Peak
6	900.147	42.36	-1.23	41.13	46.00	4.87	QP

4.3 20 dB Emission Bandwidth

Serial Number:	CR21110094-S1(E16S)	Test Date:	2022-02-10
Test Site:	966-2	Test Mode:	Transmitting
Tester:	Great Qiao	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	17.8	Relative Humidity: (%)	58	ATM Pressure: (kPa)	101.4
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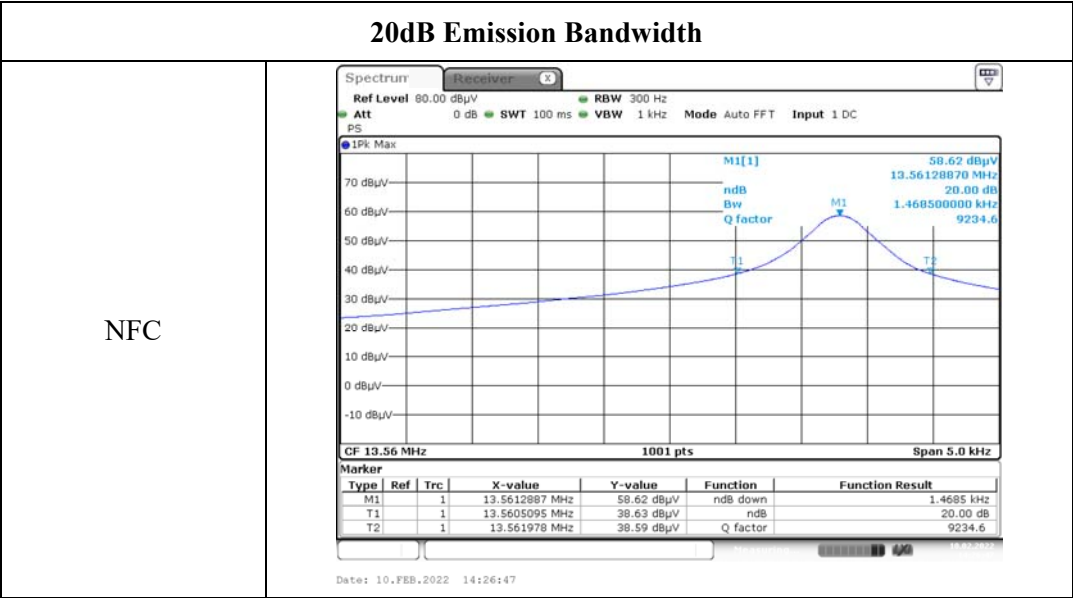
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
TESEQ	HF Loop Antenna	HLA6120	33561	2021-02-03	2024-02-02
R&S	EMI Test Receiver	ESR3	102724	2021-07-22	2022-07-21
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2021-07-18	2022-07-17
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2021-07-18	2022-07-17
Audix	Test Software	E3	201021 (V9)	N/A	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Test Frequency (MHz)	20 dB Bandwidth (kHz)
13.56	1.469



4.4 Frequency Stability

Serial Number:	CR21110094-S1(E16S)	Test Date:	2021-12-18
Test Site:	RF	Test Mode:	Transmitting
Tester:	Carl Liang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.7	Relative Humidity: (%)	54	ATM Pressure: (kPa)	102
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2021-07-22	2022-07-21
Unknown	Coaxial Cable	C-SJ0010	C0010	Each time	N/A
BACL	TEMP&HUMI Test Chamber	BTH-150	30026	2021-07-22	2022-07-21
UNI-T	Multimeter	UT39A+	C210582554	2021-09-30	2022-09-29
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

DC 12 V:

$f_0 = 13.56 \text{ MHz}$				
Temperature	Voltage	Measured frequency	Frequency Error	Limit
°C	V _{DC}	MHz	Hz	Hz
-30	12	13.5613214	1321.4	±1356
-20		13.5613354	1335.4	±1356
-10		13.5613364	1336.4	±1356
0		13.5613330	1333.0	±1356
10		13.5613179	1317.9	±1356
20		13.5613455	1345.5	±1356
25		13.5613349	1334.9	±1356
30		13.5613394	1339.4	±1356
40		13.5613347	1334.7	±1356
50		13.5613034	1303.4	±1356
20	3.5	13.5613096	1309.6	±1356
20	4.4	13.5613031	1303.1	±1356

DC 48V:

$f_0 = 13.56 \text{ MHz}$				
Temperature	Voltage	Measured frequency	Frequency Error	Limit
°C	V _{DC}	MHz	Hz	Hz
-30	48	13.5613159	1315.9	±1356
-20		13.5613121	1312.1	±1356
-10		13.5613160	1316.0	±1356
0		13.5613097	1309.7	±1356
10		13.5613105	1310.5	±1356
20		13.5613168	1316.8	±1356
25		13.5613081	1308.1	±1356
30		13.5613160	1316.0	±1356
40		13.5613075	1307.5	±1356
50		13.5613141	1314.1	±1356
20	40.8	13.5613167	1316.7	±1356
20	55.2	13.5613122	1312.2	±1356

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