



REPORT No.: SZ26060446W02

TEST REPORT

APPLICANT : FJ Dynamics Co.,Ltd.

PRODUCT NAME : Scanner

MODEL NAME : FJDX3201

BRAND NAME : 

FCC ID : 2A2LL-FJDX1

STANDARD(S) : 47 CFR Part 15 Subpart C

RECEIPT DATE : 2026-07-15

TEST DATE : 2026-08-27 to 2026-09-12

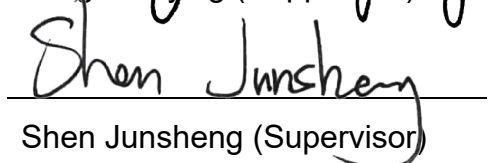
ISSUE DATE : 2026-09-24



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Change History		
Version	Date	Reason for change
1.0	2026-09-24	First edition



1. Summary of Test Result

No.	Section	Description	Test Date	Test Engineer	Result	Remark
1	15.203	Antenna Requirement	N/A	N/A	PASS	/
2	15.247(d)	Restricted Frequency Bands	Sep. 12, 2026	Tian Xin	PASS	/
3	15.209, 15.247(d)	Radiated Emission	Sep. 12, 2026	Tian Xin	PASS	/
4	15.207	Conducted Emission	Sep. 12, 2026	Wang Yapeng	PASS	/

Note 1: The test results of all conducted test items please refer to the module FCC test report (Report No.: FR412214AC), which issued on Sep. 19, 2024 by Sporton International Inc. Hsinchu Laboratory.

Note 2: The tests were performed according to the method of measurements prescribed in ANSI C63.10-2020, KDB 558074 D01 v05r02 and DA 00-075.

Note 3: Any additions, deviation, or exclusions from the method shall be noted in the “Remark”.

1.1. Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart C Radio Frequency Devices



1.2. Test Equipment List

1.2.1 List of Software Used

Description	Manufacturer	Software Version
JS32-RE	Tonscend	5.0.0

1.2.2 Radiated Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Signal Analyzer	MY56060145	N9020A	Agilent	2026.04.28	2027.04.27
Test Antenna - Bi-Log	9163-274	VULB 9163	Schwarzbeck	2026.06.27	2027.06.26
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2026.05.09	2027.05.08
Test Antenna – Horn	01774	BBHA 9120D	Schwarzbeck	2026.05.30	2027.05.29
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2026.05.30	2027.05.29
Preamplifier (10MHz-6GHz)	46732	S10M100L38 02	LUCIX CORP.	2026.05.07	2027.05.06
Preamplifier (2GHz-18GHz)	61171/61172	S020180L32 03	LUCIX CORP.	2026.05.07	2027.05.06
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118- 40C-S	Decentest	2026.05.07	2027.05.06
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2026.08.19	2027.08.18
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2026.08.19	2027.08.18
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2026.08.19	2027.08.18
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40- KK-0.5	Qualwave	2026.08.20	2027.08.19
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40- KKF-2	Qualwave	2026.08.20	2027.08.19
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18- NN-5	Qualwave	2026.08.20	2027.08.19
Notch Filter	N/A	WRCG-2400- 2483.5-60SS	Wainwright	N/A	N/A



Anechoic Chamber	N/A	9m*6m*6m	CRT	2025.06.21	2028.06.20
Anechoic Chamber	N/A	9m*6m*6m	CRT	2025.04.19	2028.04.18

1.2.3 Conducted Emission Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	101052	ESPI	R&S	2026.05.07	2027.05.06
LISN	103131	ENV 216	R&S	2026.03.18	2027.03.17
RF Coaxial Cable (DC-100MHz)	BNC	MRE04	Qualwave	2026.05.06	2027.05.05



1.3. Measurement Uncertainty

Test Items	Uncertainty	Remark
Number of Hopping Frequency	±5%	Confidence levels of 95%
Peak Output Power	±2.22dB	Confidence levels of 95%
Bandwidth	±5%	Confidence levels of 95%
Carrier Frequency Separation	±5%	Confidence levels of 95%
Time of Occupancy (Dwell time)	±5%	Confidence levels of 95%
Conducted Spurious Emission	±2.77dB	Confidence levels of 95%
Restricted Frequency Bands	±5%	Confidence levels of 95%
Radiated Emission	±2.95dB	Confidence levels of 95%
Conducted Emission	±2.44dB	Confidence levels of 95%

1.4. Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
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FCC Designation Number:	CN1192
FCC Test Firm Registration Number:	226174



2. General Description

2.1. Information of Applicant and Manufacturer

Applicant:	FJ Dynamics Co.,Ltd.
Applicant Address:	Floor 21, Das Tower, No. 28, 1st South Keji Road, High-tech Zone, Yuehai Subdistrict, Nanshan District, Shenzhen, China
Manufacturer:	FJ Dynamics Co.,Ltd.
Manufacturer Address:	Floor 21, Das Tower, No. 28, 1st South Keji Road, High-tech Zone, Yuehai Subdistrict, Nanshan District, Shenzhen, China

2.2. Information of EUT

Product Name:	Scanner
Sample No.:	1#
Hardware Version:	V1.0
Software Version:	V1.0
Equipment Type:	Bluetooth classic
Bluetooth Version:	5.3
Modulation Type:	FHSS (GFSK(1Mbps), $\pi/4$ -DQPSK(EDR 2Mbps), 8-DPSK(EDR 3Mbps))
Operating Frequency Range:	2402MHz-2480MHz
Antenna Type:	FPC Antenna
Antenna Gain:	5.03dBi

Note 1: The EUT description presented in the report are provided by applicant and/or manufacturer, and the test laboratory is not responsible for the accuracy of the information. For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

Note 2: The test results of all conducted test items please refer to the module FCC test report (Report No.: FR412214AC), which issued on Sep. 19, 2024 by Sporton International Inc. Hsinchu Laboratory. We only recorded the radiated test result in this report.



2.3.Channel List of EUT

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

Note 1: The black bold channels were selected for test.

2.4. Test Configuration of EUT

Test mode is used to control the EUT under the maximum power level during test.

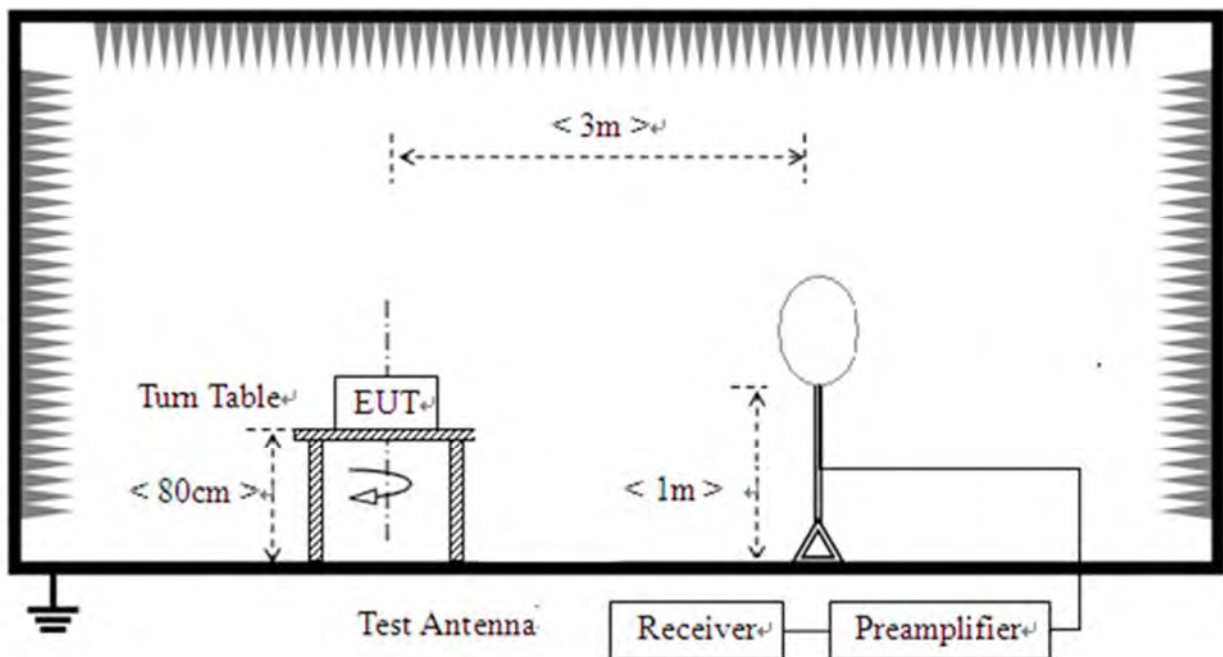
2.5. Test Conditions

Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106

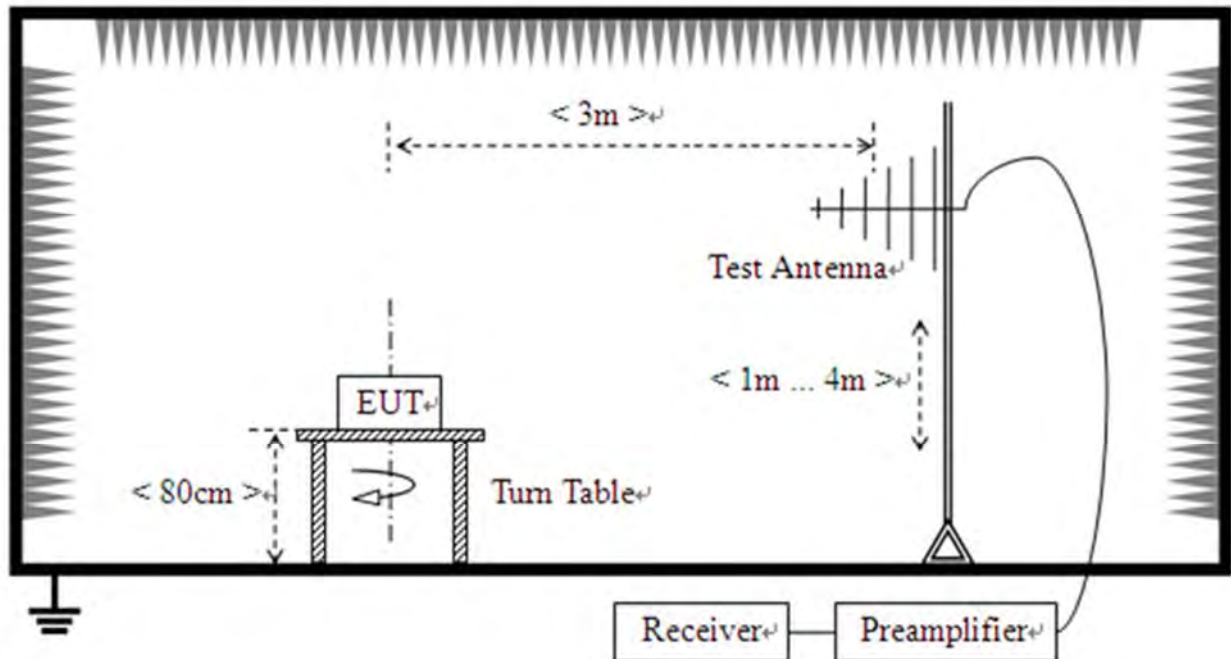
2.6. Test Setup Layout Diagram

2.6.1. Radiation Measurement

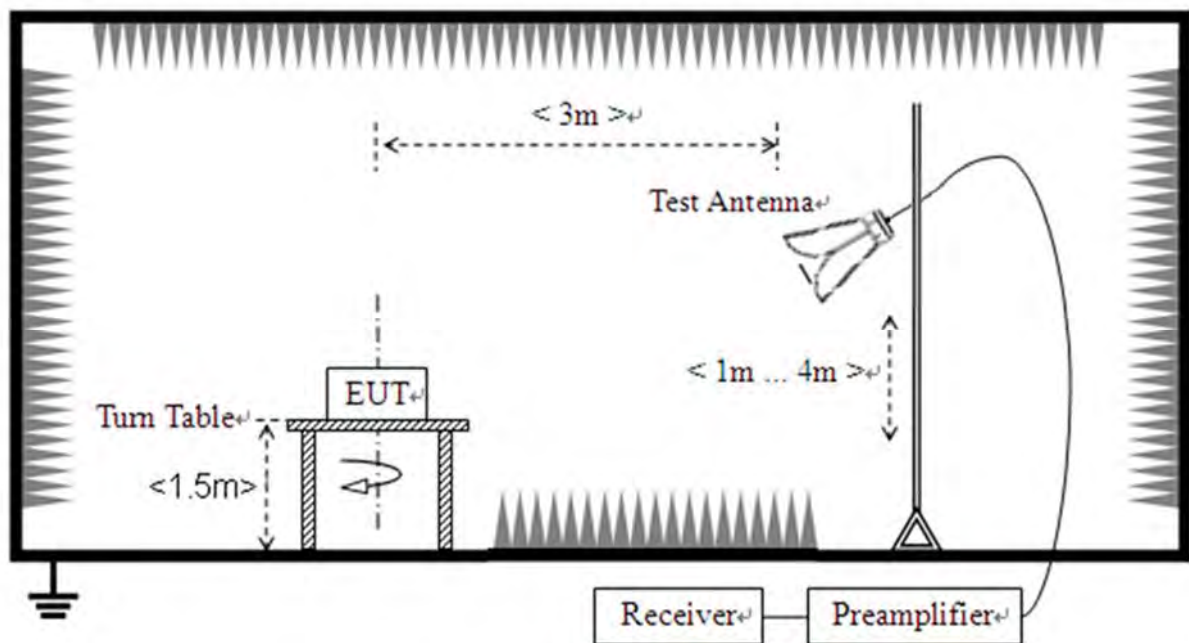
- 1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to1GHz



3) For radiated emissions above 1GHz





3. Test Results

3.1. Antenna Requirement

3.1.1. Requirement

According to FCC 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.1.2. Test Result

Antenna location	Antenna Type	Coupling Method
☒ Internal ☐ External	☒ FPC Antenna ☐ Spring Antenna ☐ Ceramic Antenna ☐ Integrated Antenna ☐ Dipole Antenna ☐ PCB Antenna ☐ PIFA Antenna ☐ Dipole Antenna	☒ I-PEX Connector ☐ SMA Connector ☐ RP-SMA Connector ☐ Metal Shrapnel ☐ Layout



3.2. Restricted Frequency Bands

3.2.1. Requirement

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power. 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).

3.2.2. Test Procedures

The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For the Test Antenna:

Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1\text{GHz}$, 100 kHz for $f < 1\text{GHz}$

VBW = 3 MHz

Sweep = auto

Detector function = peak/average

Trace = max hold

Allow the trace to stabilize

3.2.3. Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.2.4. Test Result

Refer to Annex A.1 in this report.

3.3. Radiated Emission

3.3.1. Requirement

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note1: For above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

Note2: For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK). In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table).



3.3.2.Test Procedures

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 30MHz, the emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9kHz-90 kHz, 110kHz-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements and as applicable for average measurements.

The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions. For measurements above 1 GHz, keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

3.3.3.Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.3.4.Test Result

Refer to Annex A.2 in this report.

3.4. Conducted Emission

3.4.1. Requirement

According to FCC section 15.207, 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 within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency Range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

Note:

- (a) The lower limit shall apply at the band edges.
- (b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

3.4.2. Test Procedures

The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10.

Test Setup Layout

Refer to chapter 2.6.2 in this report.

3.4.3. Test Result

Refer to Annex A.3 in this report.

Annex A Test Data and Result

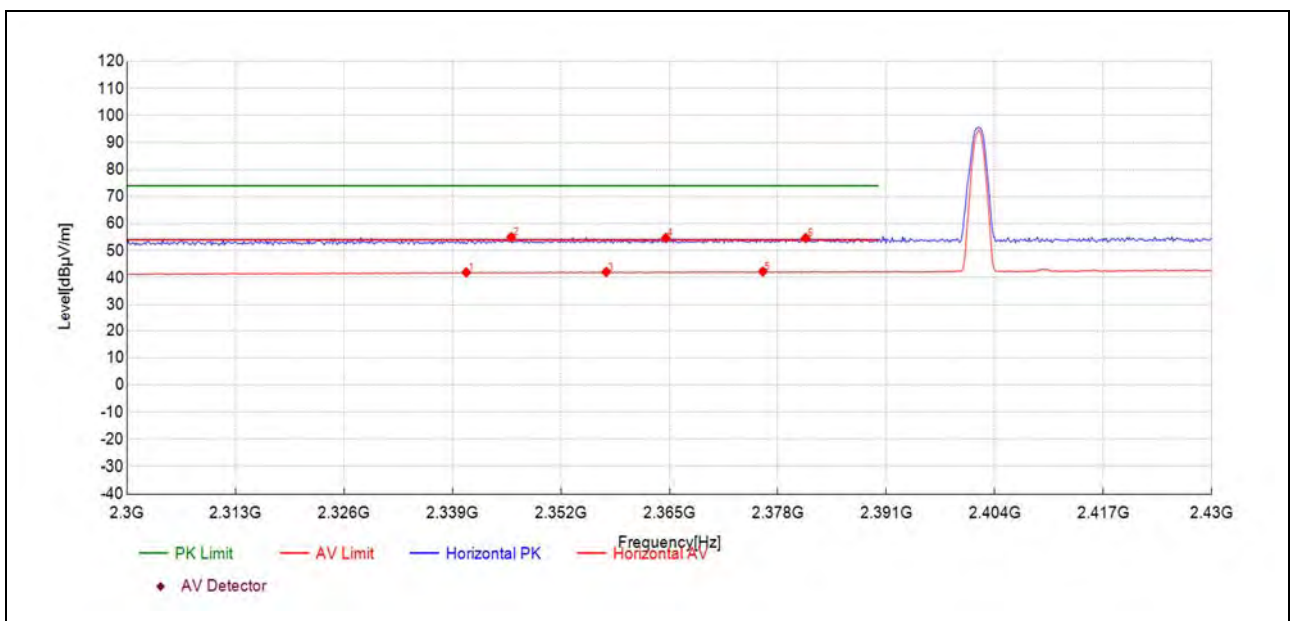
A.1. Restricted Frequency Bands

Note 1: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (Horizontal) was recorded in this test report.

Note 2: All test modes were considered and evaluated respectively by performing full test, only the worst data were recorded.

GFSK Mode

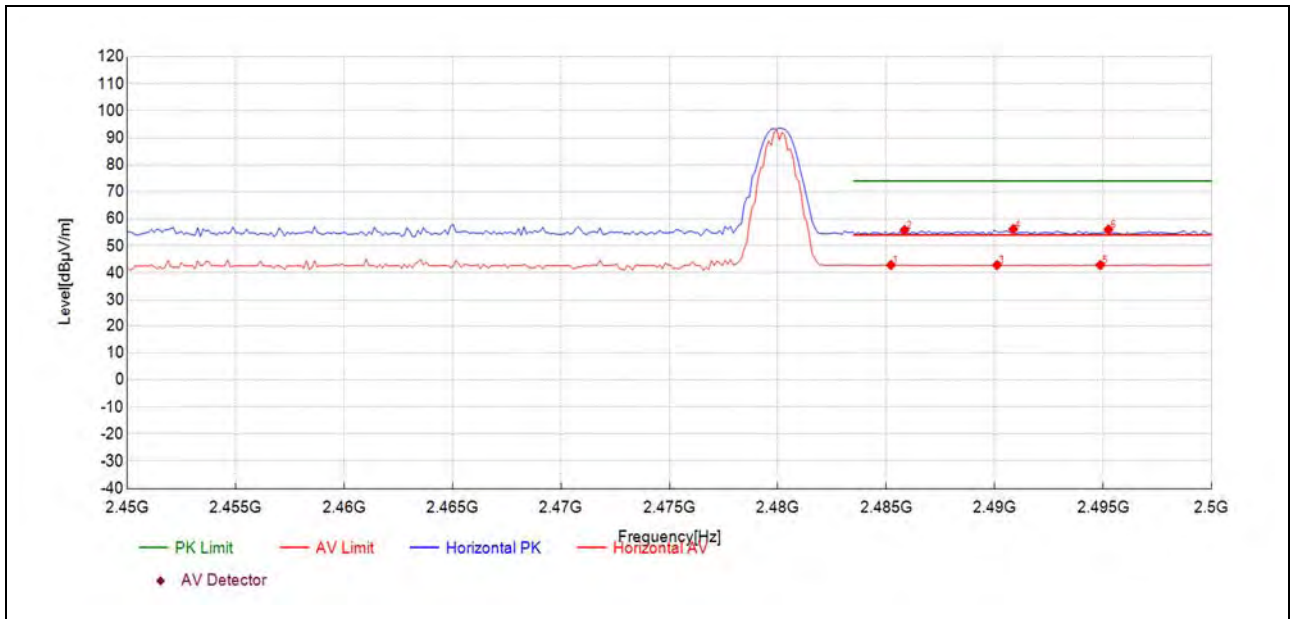
Plot for Channel 0



Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
2340.66	9.6	41.95	32.320	54.00	12.05	304	AV	Horizontal	PASS
2346.04	22.6	54.95	32.360	74.00	19.05	359	PK	Horizontal	PASS
2357.43	9.7	42.08	32.420	54.00	11.92	50	AV	Horizontal	PASS
2364.56	22.2	54.67	32.450	74.00	19.33	358	PK	Horizontal	PASS
2376.20	9.8	42.25	32.490	54.00	11.75	313	AV	Horizontal	PASS
2381.33	22.2	54.67	32.510	74.00	19.33	147	PK	Horizontal	PASS



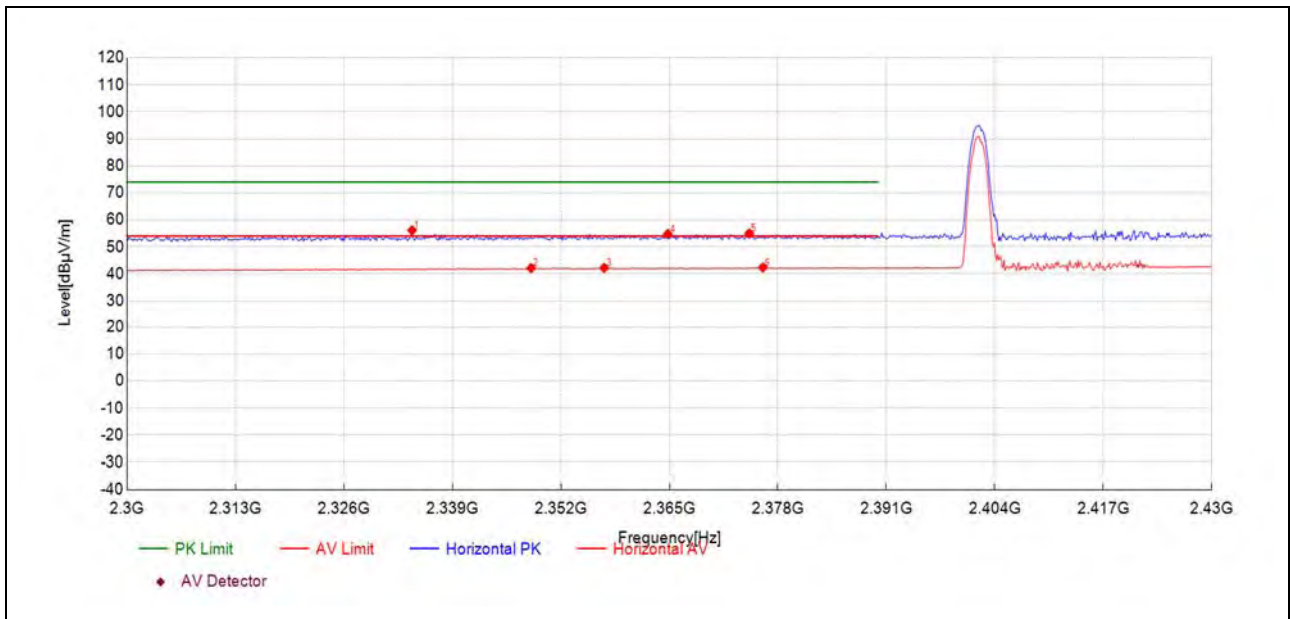
Plot for Channel 78



Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
23V16.97	9.2	46.32	37.170	54.00	7.68	54	AV	Horizontal	PASS
2320.32	21.4	58.59	37.190	74.00	15.41	350	PK	Horizontal	PASS
2337.53	9.0	46.33	37.340	54.00	7.67	0	AV	Horizontal	PASS
2352.12	21.8	59.21	37.460	74.00	14.79	154	PK	Horizontal	PASS
2370.25	8.9	46.39	37.470	54.00	7.61	331	AV	Horizontal	PASS
2383.25	21.6	59.05	37.480	74.00	14.95	3	PK	Horizontal	PASS

**8-DPSK Mode**

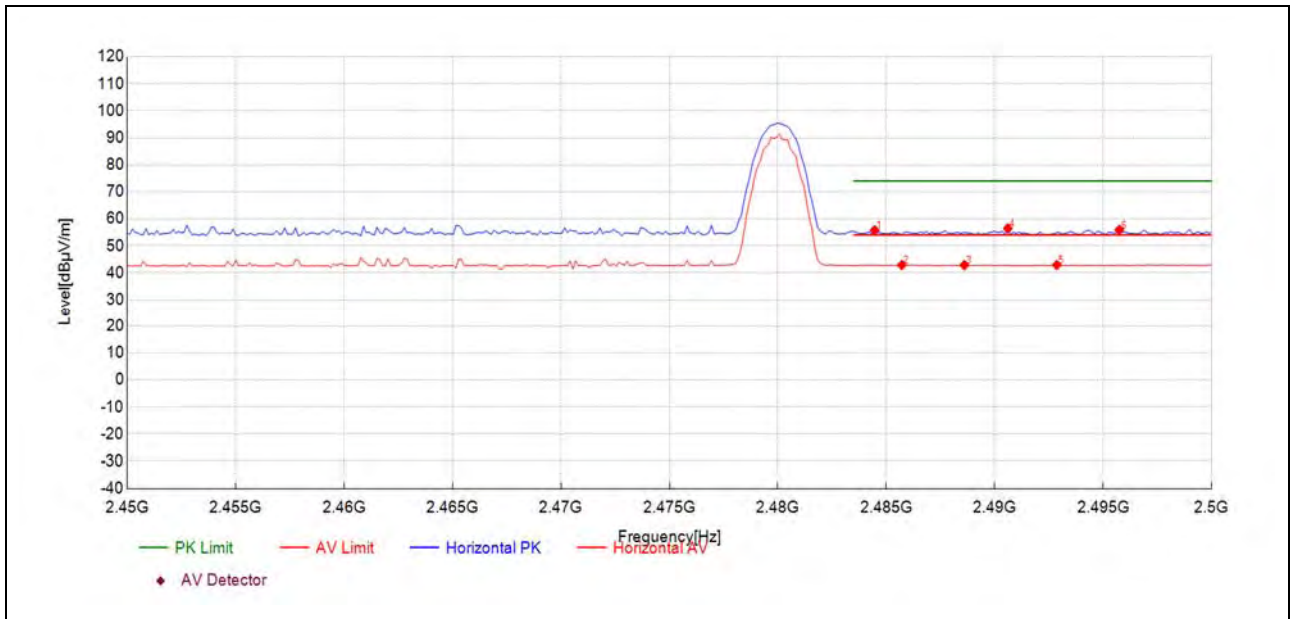
Plot for Channel 0



Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
2334.16	23.9	56.10	32.240	74.00	17.90	215	PK	Horizontal	PASS
2348.42	9.8	42.14	32.390	54.00	11.86	0	AV	Horizontal	PASS
2357.18	9.8	42.22	32.420	54.00	11.78	320	AV	Horizontal	PASS
2364.81	22.3	54.77	32.450	74.00	19.23	139	PK	Horizontal	PASS
2374.57	22.4	54.93	32.490	74.00	19.07	187	PK	Horizontal	PASS
2376.20	9.9	42.37	32.490	54.00	11.63	311	AV	Horizontal	PASS



Plot for Channel 78



Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
2484.46	22.7	55.72	33.030	74.00	18.28	338	PK	Horizontal	PASS
2485.71	9.9	42.88	33.030	54.00	11.12	351	AV	Horizontal	PASS
2488.60	9.8	42.86	33.020	54.00	11.14	282	AV	Horizontal	PASS
2490.60	23.4	56.43	33.020	74.00	17.57	310	PK	Horizontal	PASS
2492.86	9.9	42.89	33.010	54.00	11.11	292	AV	Horizontal	PASS
2495.74	22.9	55.87	33.010	74.00	18.13	292	PK	Horizontal	PASS



A.2. Radiated Emission

According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak (or average) limit, it is unnecessary to perform an quasi-peak measurement (or average).

The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V/m]} = U_R + A_T + A_{\text{Factor}} \text{ [dB]}; A_T = L_{\text{Cable loss}} \text{ [dB]} - G_{\text{preamp}} \text{ [dB]}$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

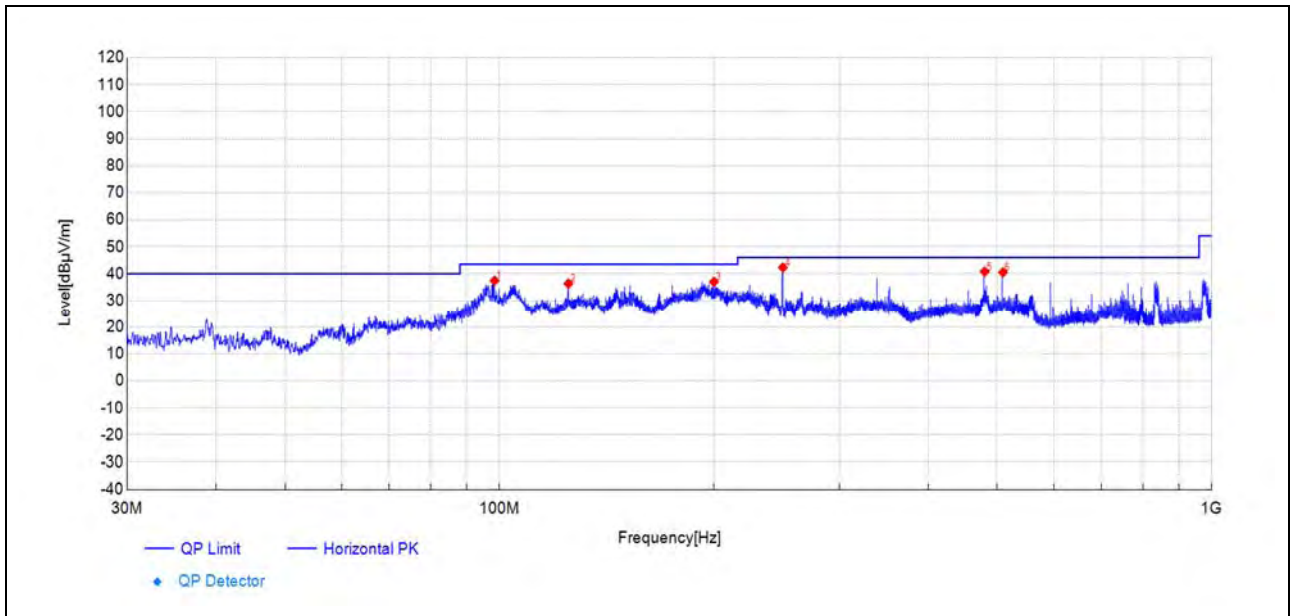
Note3: For the frequency, which started from 18GHz to 10th harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note 4: All test modes were considered and evaluated respectively by performing full test, only the worst data were recorded.



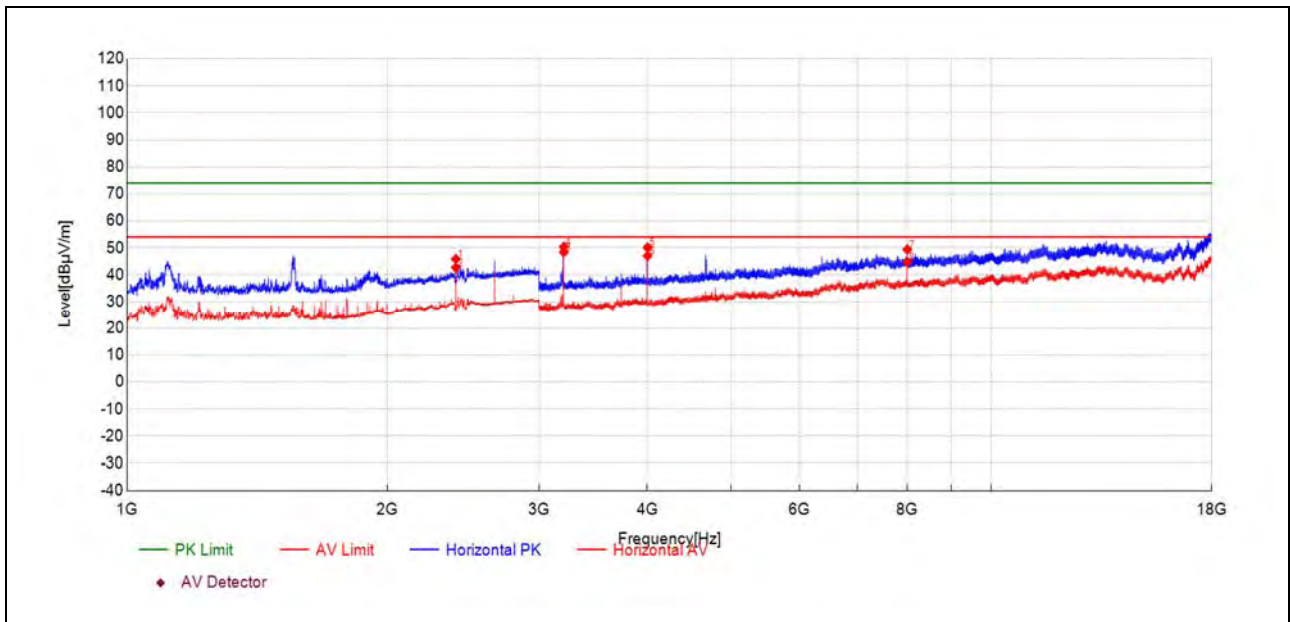
GFSK Mode

Plot for Channel 0



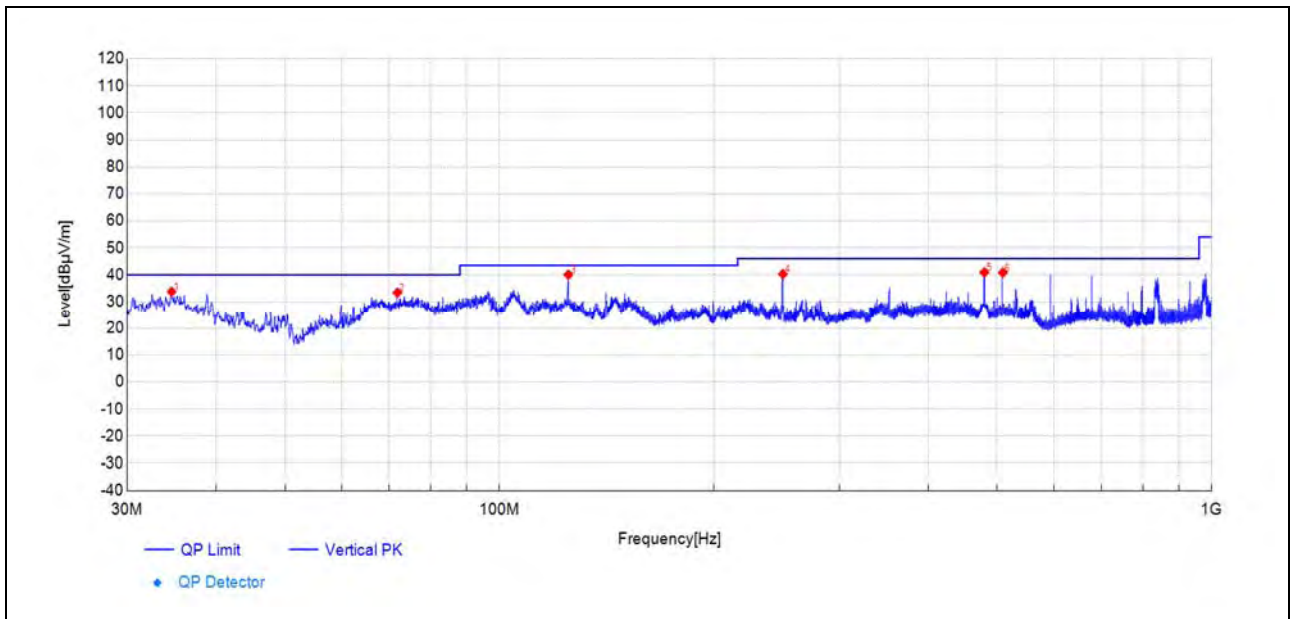
(Antenna Horizontal, 30MHz to 1GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
98.44	67.8	37.44	-30.330	43.50	6.06	80	PK	Horizontal	PASS
124.97	69.3	36.32	-32.930	43.50	7.18	140	PK	Horizontal	PASS
200.00	67.2	37.00	-30.230	43.50	6.50	110	PK	Horizontal	PASS
250.01	70.4	42.31	-28.120	46.00	3.69	100	PK	Horizontal	PASS
480.01	63.1	40.80	-22.330	46.00	5.20	130	PK	Horizontal	PASS
509.16	62.1	40.53	-21.520	46.00	5.47	51	PK	Horizontal	PASS



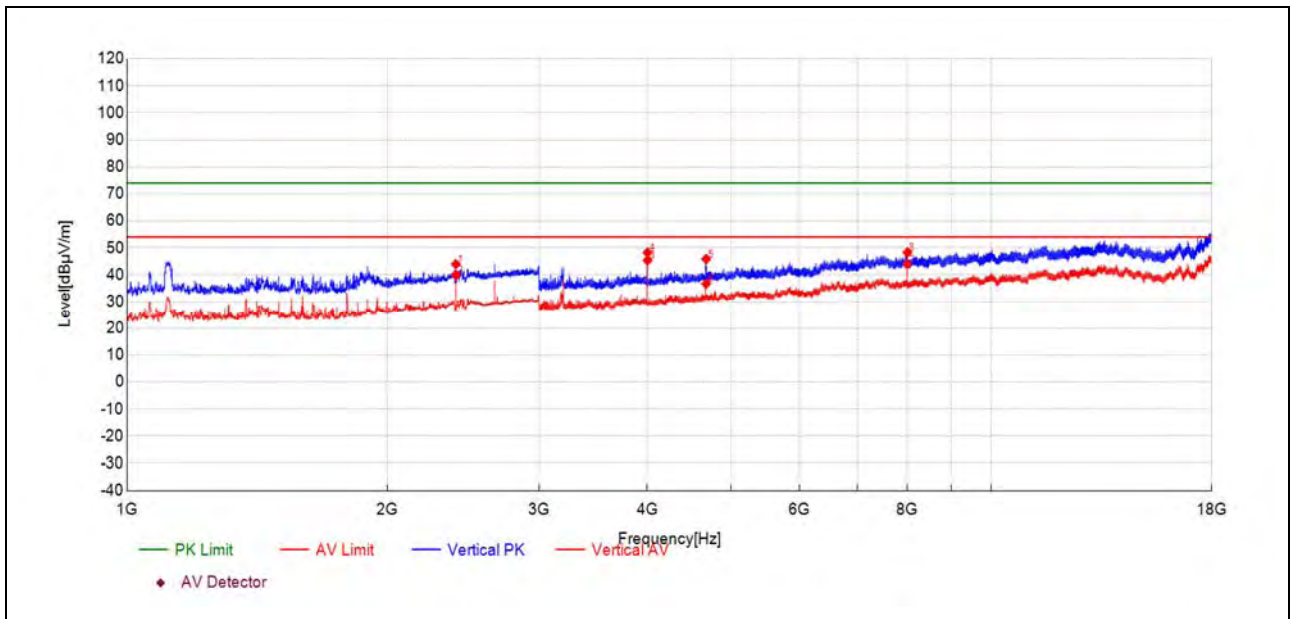
(Antenna Horizontal, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
2401.71	45.1	45.83	0.750	-	-	345	PK	Horizontal	NA
2402.20	42.0	42.71	0.750	-	-	345	AV	Horizontal	NA
3202.29	63.9	48.40	-15.510	54.00	5.60	350	AV	Horizontal	PASS
3202.29	65.9	50.34	-15.510	74.00	23.66	324	PK	Horizontal	PASS
4003.31	63.6	50.12	-13.470	74.00	23.88	350	PK	Horizontal	PASS
4003.31	60.5	47.01	-13.470	54.00	6.99	350	AV	Horizontal	PASS
7999.43	52.7	49.39	-3.310	74.00	24.61	350	PK	Horizontal	PASS
7999.86	48.0	44.71	-3.310	54.00	9.29	0	AV	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

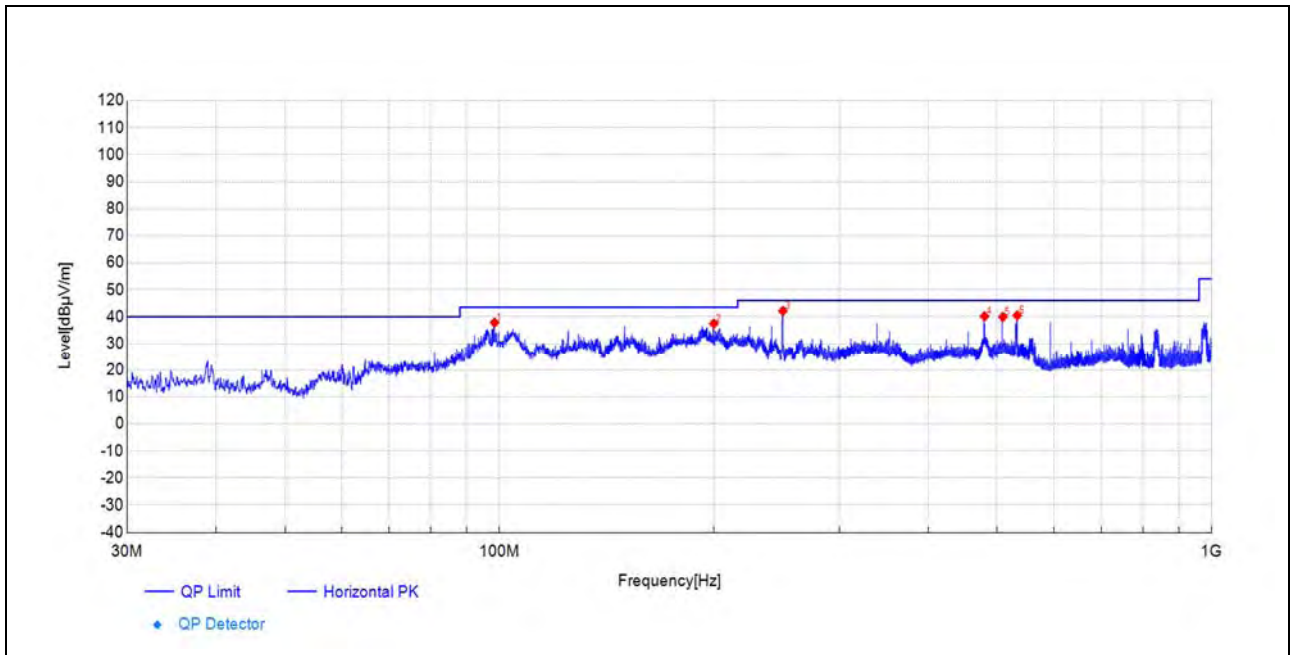
Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
34.66	65.0	33.74	-31.210	40.00	6.26	90	PK	Vertical	PASS
71.91	68.2	33.37	-34.840	40.00	6.63	50	PK	Vertical	PASS
124.97	73.0	40.04	-32.930	43.50	3.46	9	PK	Vertical	PASS
250.01	68.4	40.29	-28.120	46.00	5.71	20	PK	Vertical	PASS
479.57	63.3	40.92	-22.340	46.00	5.08	360	PK	Vertical	PASS
509.11	62.3	40.80	-21.520	46.00	5.20	259	PK	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

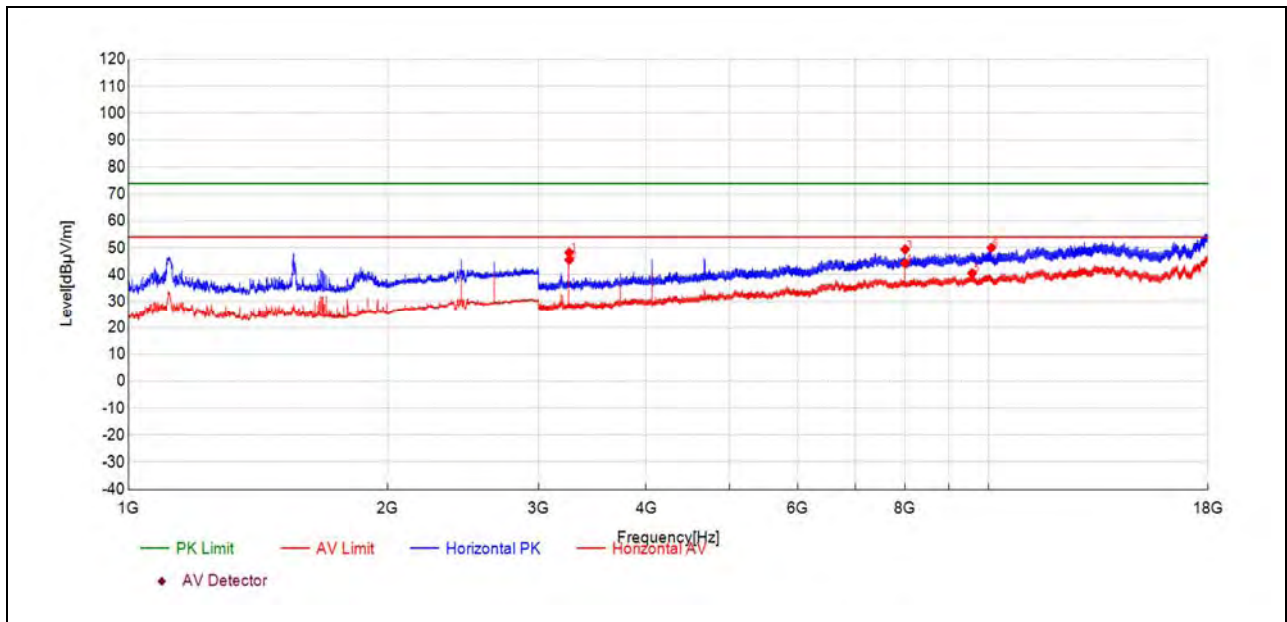
Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
2402.20	43.2	43.96	0.750	-	-	324	PK	Vertical	NA
2402.20	39.1	39.88	0.750	-	-	345	AV	Vertical	NA
4003.31	58.8	45.33	-13.470	54.00	8.67	197	AV	Vertical	PASS
4003.31	61.7	48.24	-13.470	74.00	25.76	197	PK	Vertical	PASS
4679.62	56.7	45.85	-10.860	74.00	28.15	4	PK	Vertical	PASS
4679.62	47.6	36.70	-10.860	54.00	17.30	219	AV	Vertical	PASS
7999.86	47.3	43.99	-3.310	54.00	10.01	197	AV	Vertical	PASS
7999.86	51.6	48.31	-3.310	74.00	25.69	1	PK	Vertical	PASS

Plot for Channel 39



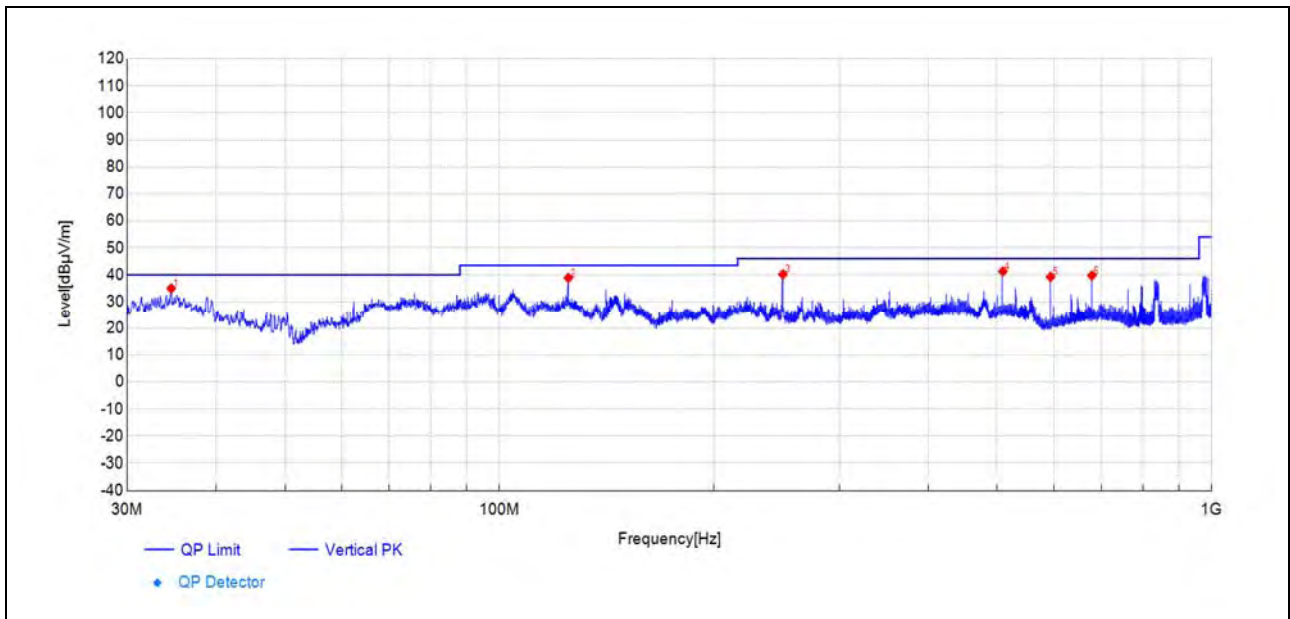
(Antenna Horizontal, 30MHz to 1GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
98.44	68.2	37.84	-30.330	43.50	5.66	110	PK	Horizontal	PASS
199.95	67.7	37.47	-30.220	43.50	6.03	110	PK	Horizontal	PASS
250.01	70.3	42.16	-28.120	46.00	3.84	79	PK	Horizontal	PASS
479.81	62.5	40.17	-22.330	46.00	5.83	180	PK	Horizontal	PASS
509.16	61.5	39.93	-21.520	46.00	6.07	40	PK	Horizontal	PASS
533.26	61.9	40.50	-21.380	46.00	5.50	299	PK	Horizontal	PASS



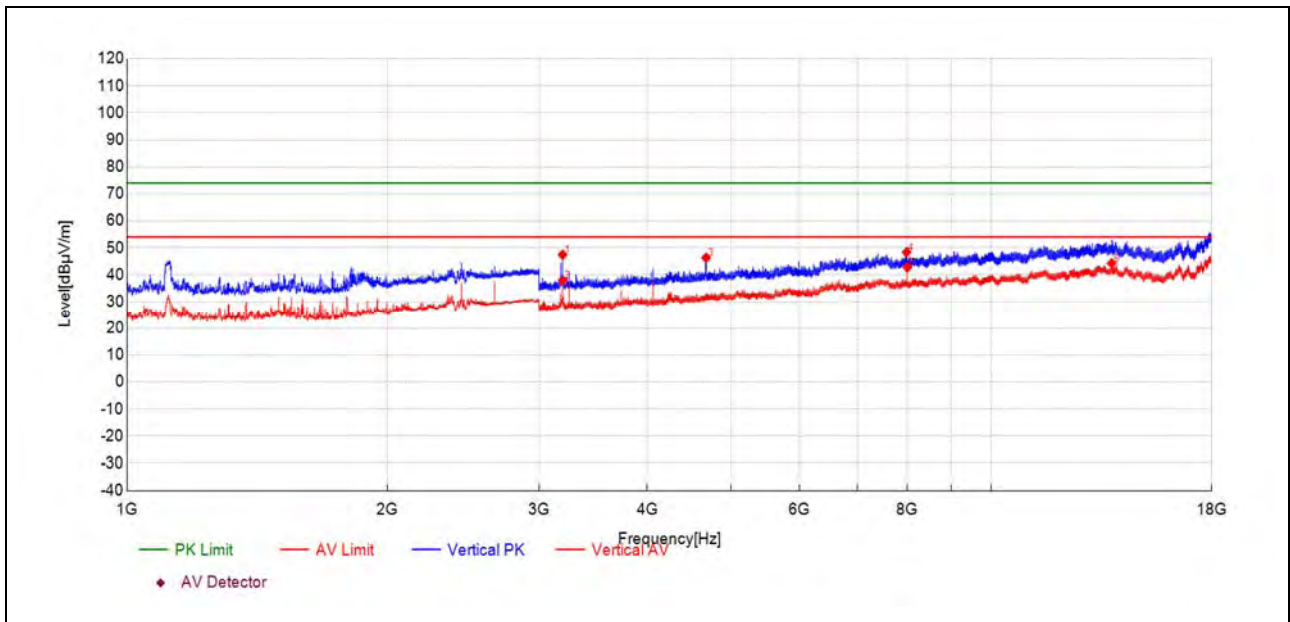
(Antenna Horizontal, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
3254.58	63.8	48.19	-15.640	74.00	25.81	349	PK	Horizontal	PASS
3254.58	61.2	45.52	-15.640	54.00	8.48	349	AV	Horizontal	PASS
7999.86	52.7	49.39	-3.310	74.00	24.61	0	PK	Horizontal	PASS
7999.86	47.6	44.25	-3.310	54.00	9.75	0	AV	Horizontal	PASS
9571.04	41.9	40.51	-1.360	54.00	13.49	1	AV	Horizontal	PASS
10076.77	50.5	50.00	-0.460	74.00	24.00	322	PK	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

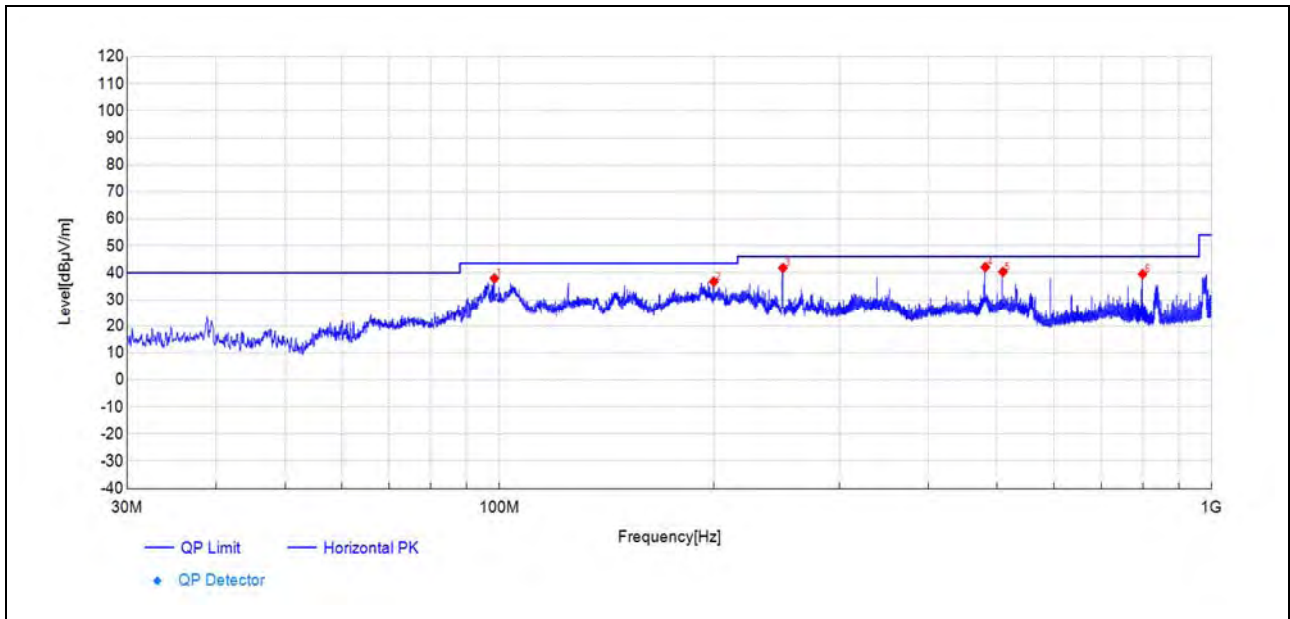
Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
34.61	66.2	34.96	-31.240	40.00	5.04	50	PK	Vertical	PASS
124.97	71.8	38.84	-32.930	43.50	4.66	80	PK	Vertical	PASS
250.01	68.3	40.19	-28.120	46.00	5.81	31	PK	Vertical	PASS
509.16	62.8	41.29	-21.520	46.00	4.71	270	PK	Vertical	PASS
593.99	59.2	39.25	-19.940	46.00	6.75	320	PK	Vertical	PASS
678.87	58.3	39.76	-18.530	46.00	6.24	230	PK	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

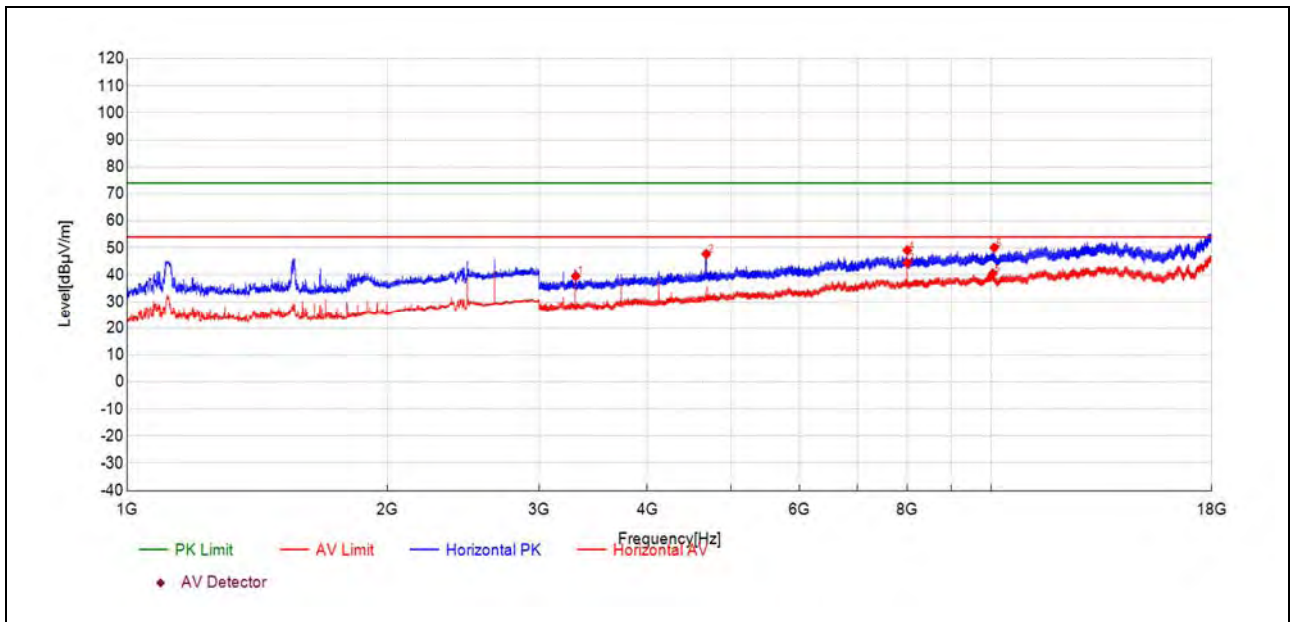
Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
3192.86	63.0	47.44	-15.520	74.00	26.56	214	PK	Vertical	PASS
3192.86	53.5	37.93	-15.520	54.00	16.07	214	AV	Vertical	PASS
4679.62	57.2	46.29	-10.860	74.00	27.71	318	PK	Vertical	PASS
7983.14	51.7	48.37	-3.360	74.00	25.63	114	PK	Vertical	PASS
7999.86	46.1	42.75	-3.310	54.00	11.25	188	AV	Vertical	PASS
13786.17	38.8	44.25	5.420	54.00	9.75	289	AV	Vertical	PASS

Plot for Channel 78



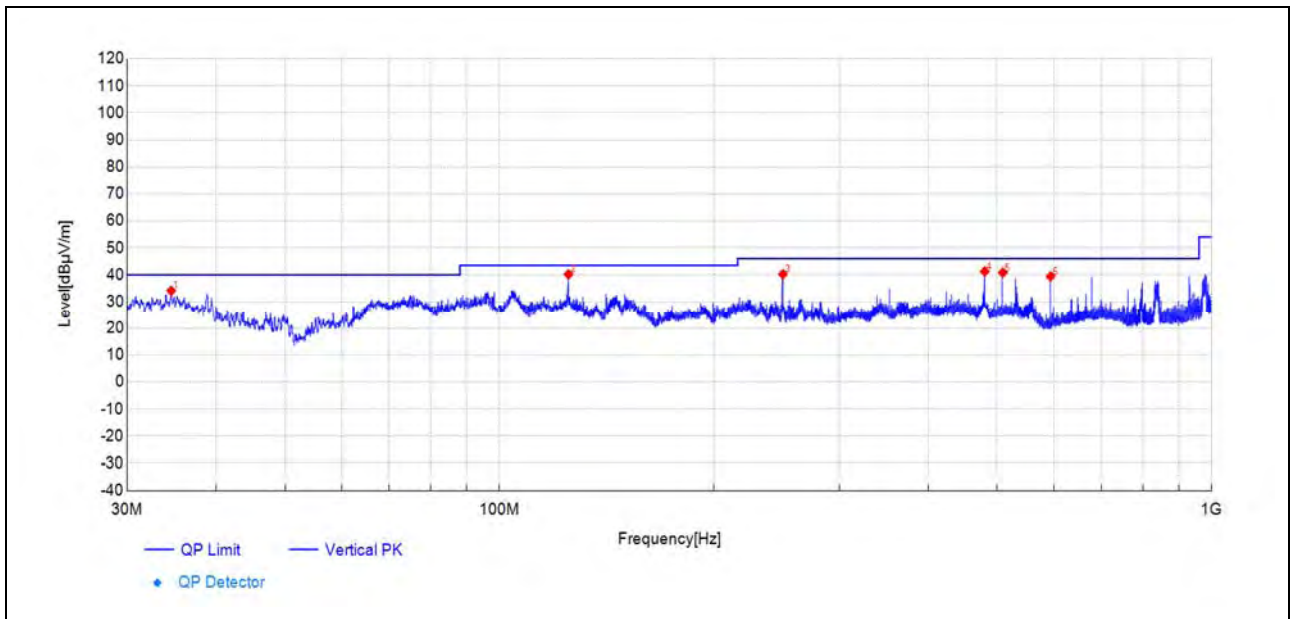
(Antenna Horizontal, 30MHz to 1GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
98.39	68.3	37.94	-30.330	43.50	5.56	120	PK	Horizontal	PASS
199.95	67.0	36.73	-30.220	43.50	6.77	111	PK	Horizontal	PASS
250.01	69.9	41.78	-28.120	46.00	4.22	90	PK	Horizontal	PASS
481.02	64.4	42.12	-22.310	46.00	3.88	131	PK	Horizontal	PASS
509.16	61.9	40.35	-21.520	46.00	5.65	51	PK	Horizontal	PASS
799.88	56.1	39.52	-16.570	46.00	6.48	280	PK	Horizontal	PASS



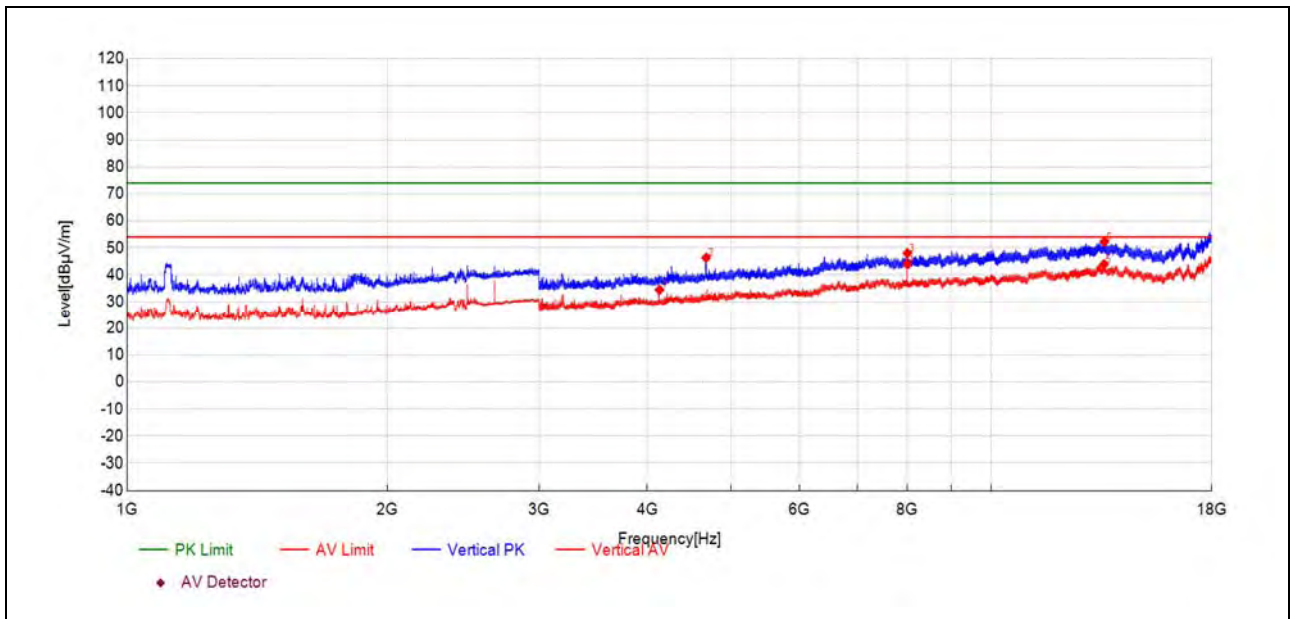
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
3306.44	55.1	39.54	-15.520	54.00	14.46	351	AV	Horizontal	PASS
4680.05	58.6	47.72	-10.860	74.00	26.28	6	PK	Horizontal	PASS
7999.86	47.7	44.41	-3.310	54.00	9.59	0	AV	Horizontal	PASS
8000.29	52.4	49.08	-3.310	74.00	24.92	0	PK	Horizontal	PASS
10043.34	40.9	40.45	-0.450	54.00	13.55	122	AV	Horizontal	PASS
10081.92	50.5	50.05	-0.450	74.00	23.95	274	PK	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
34.61	65.3	34.09	-31.240	40.00	5.91	52	PK	Vertical	PASS
125.02	73.1	40.17	-32.930	43.50	3.33	11	PK	Vertical	PASS
250.01	68.4	40.23	-28.120	46.00	5.77	22	PK	Vertical	PASS
480.10	63.6	41.26	-22.330	46.00	4.74	152	PK	Vertical	PASS
509.11	62.3	40.80	-21.520	46.00	5.20	282	PK	Vertical	PASS
594.03	59.4	39.43	-19.940	46.00	6.57	332	PK	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Angle [°]	Detector	Polarity	Verdict
4133.18	47.6	34.46	-13.140	54.00	19.54	323	AV	Vertical	PASS
4679.62	57.2	46.32	-10.860	74.00	27.68	145	PK	Vertical	PASS
7999.86	51.3	48.02	-3.310	74.00	25.98	323	PK	Vertical	PASS
7999.86	47.3	43.95	-3.310	54.00	10.05	323	AV	Vertical	PASS
13506.73	39.2	43.92	4.720	54.00	10.08	221	AV	Vertical	PASS
13522.16	47.5	52.28	4.740	74.00	21.72	171	PK	Vertical	PASS



A.3. Conducted Emission

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Set RBW=9kHz, VBW=30kHz. Refer to recorded points and plots below.

Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A. Test Setup:

Test Mode: EUT+Adapter+USB cable1+Notebook+USB cable2+BT TX

Test voltage: AC 120V/60Hz

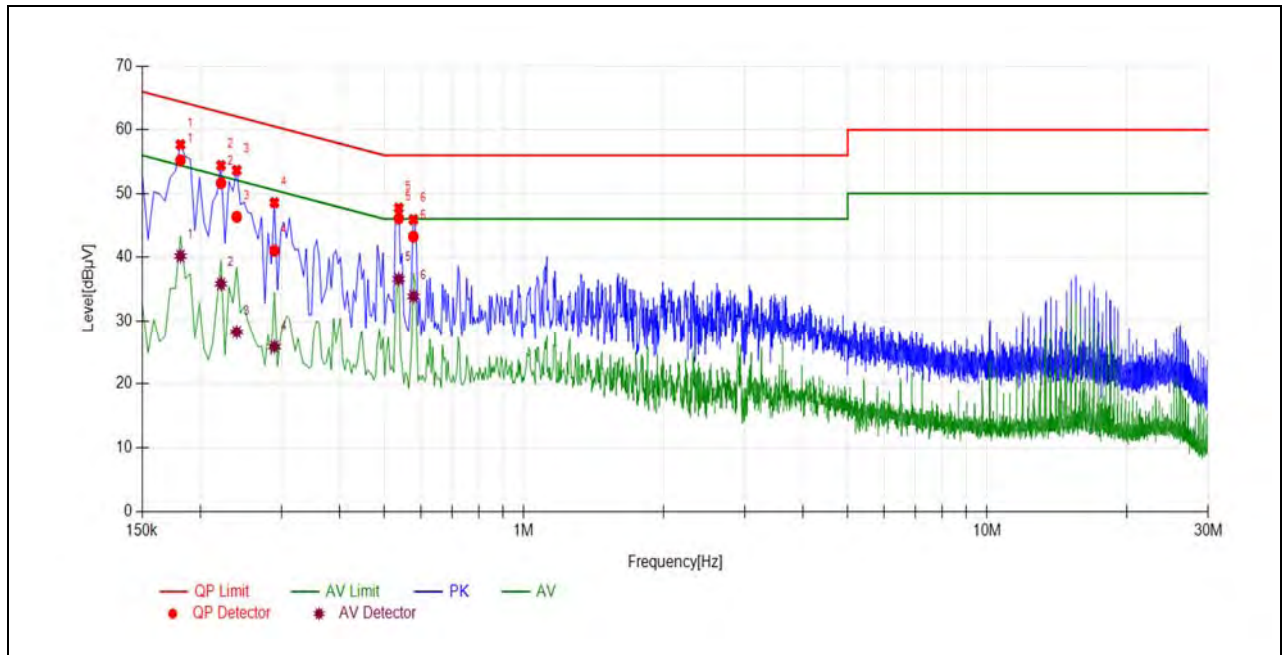
The measurement results are obtained as below:

$$E [\text{dB}\mu\text{V}] = U_R + L_{\text{Cable loss}} [\text{dB}] + A_{\text{Factor}}$$

U_R : Receiver Reading

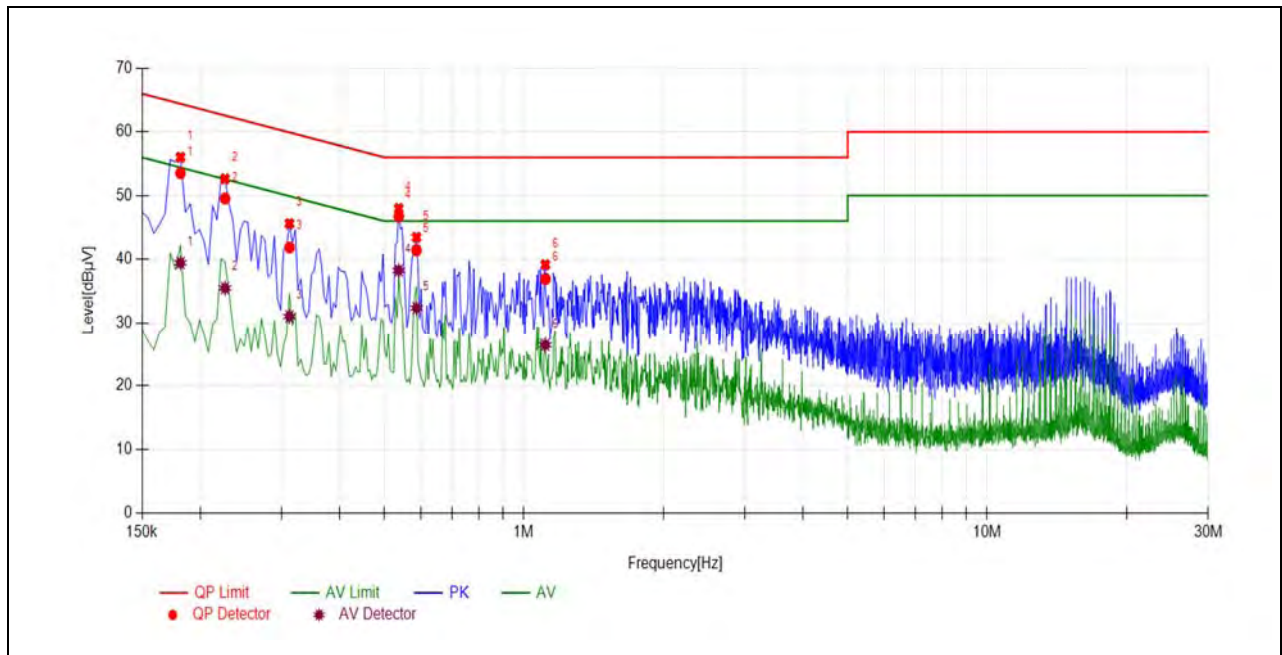
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1815	55.23	40.19	64.42	54.42	Line	PASS
2	0.2220	51.64	35.83	62.74	52.74		PASS
3	0.2400	46.35	28.19	62.10	52.10		PASS
4	0.2895	41.02	25.82	60.54	50.54		PASS
5	0.5370	46.10	36.59	56.00	46.00		PASS
6	0.5775	43.25	33.86	56.00	46.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1815	53.53	39.45	64.42	54.42	Neutral	PASS
2	0.2265	49.55	35.49	62.58	52.58		PASS
3	0.3120	41.87	31.03	59.92	49.92		PASS
4	0.5370	46.76	38.26	56.00	46.00		PASS
5	0.5865	41.44	32.33	56.00	46.00		PASS
6	1.1129	36.92	26.42	56.00	46.00		PASS



Notes

1. The report shall have report stamp or our company stamp.
2. The report shall be invalid without all the signatures of the editor and approver.
3. The report shall not be changed.
4. Any objections must be raised to Morlab within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit.
5. Conformity declaration:
 - ☒ Morlab issues a statement of conformity based on the corresponding standards (default)
 - ☐ Morlab issues a statement of conformity based on the applicant requirement
6. Use of uncertainty of measurement for decisions on conformity (decision rule):

No decision rule is specified by the testing standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule).

————— END OF REPORT —————