

Report No.: SEWM2206000086RG06

Rev.: 01

Page: 1 of 40

# TEST REPORT

**Application No.:** SEWM2206000086RG  
**Applicant:** Lenovo (Shanghai) Electronics Technology Co., Ltd.  
**Address of Applicant:** Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone  
**Manufacturer:** Lenovo PC HK Limited  
**Address of Manufacturer:** 23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China  
**EUT Description:** Portable Tablet Computer  
**Model No.:** HB286ZJ  
**Trade Mark:** Lenovo  
**FCC ID:** O57HB286ZJ  
**Standard(s):** FCC CFR Title 47 Part 15 Subpart B  
 ANSI C63.4:2014  
**Date of Receipt:** 2022/06/20  
**Date of Test:** 2022/06/20 to 2022/07/19  
**Date of Issue:** 2022/07/20

<b>Test Result:</b>	<b>Pass*</b>
---------------------	--------------

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Panta Sun  
Wireless Laboratory Manager



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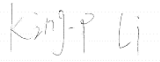
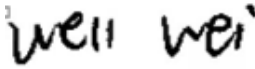
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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/07/20		Original

<b>Prepared By</b>		 <hr/> (King-p Li) / Test Engineer
<b>Checked By</b>		 <hr/> (Well Wei) / Reviewer



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## Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (30MHz-1GHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (above 1GHz)	FCC 47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower



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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.  
Wireless Laboratory

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# 1 General Information

Product Name:	Portable Tablet Computer		
Model No. (EUT):	HB286ZJ		
Trade Mark:	Lenovo		
Hardware Version:	V1		
Software Version:	HB286ZJ_RF04_2205091416		
IMEI:	860893060010664 860893060016950		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	WCDMA Band V	824~849	869~894
	LTE Band 5	824~849	869~894
	LTE Band 38	2570~2620	2570~2620
	LTE Band 41	2496~2690	2496~2690
	Wi-Fi 2.4G	2412~2462	2412~2462
	Bluetooth	2402~2480	2402~2480
	Wi-Fi 5G	5150~5850	5150~5850
	FM	/	88~108
	GNSS(GPS+Glonass)	/	1559~1610
Remark:	As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.		



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**1.1 Description of Support Units**

Description	Manufacturer	Model No.	Inventory No.
Router	Smauwave Technology Co.,Ltd	SRT 421	SUWI-04-34-01
Computer	Lenovo	T14	SUWI-03-33-04
Mouse	Lenovo	3D optical Mouse	SUWI-03-33-05
Adaptor*	NA	MC-308	NA
USB cable*	NA	E101344	NA

Remark: the information with "\*" are provided by client.

**1.2 Test Location**

All tests were performed at:

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	King-p Li

**1.3 Test Facility**

The test facility is recognized, certified, or accredited by the following organizations:

<p>• <b>A2LA (Certificate No. 6336.01)</b>                  SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.</p> <p>• <b>Innovation, Science and Economic Development Canada</b>                  SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.                  CAB identifier: CN0120.                  IC#: 27594.</p> <p>• <b>FCC –Designation Number: CN1312</b>                  SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.                  Designation Number: CN1312.                  Test Firm Registration Number: 717327</p>
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**1.4 Deviation from Standards**

None

**1.5 Abnormalities from Standard Conditions**

None



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## 2 Emission Test Results

### 2.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	47 CFR Part 15, Subpart B		
Test Method:	ANSI C63.4:2014		
Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency Range (MHz)	Limit(dBμV)	
		Quasi-peak	average
	0.15M-0.5MHz	66 ~ 56*	56 ~ 46*
	0.5M-5MHz	56	46
	5M-30MHz	60	50
*Decreases with the logarithm of the frequency Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz			

#### 2.1.1 E.U.T. Operation

Operating Environment:

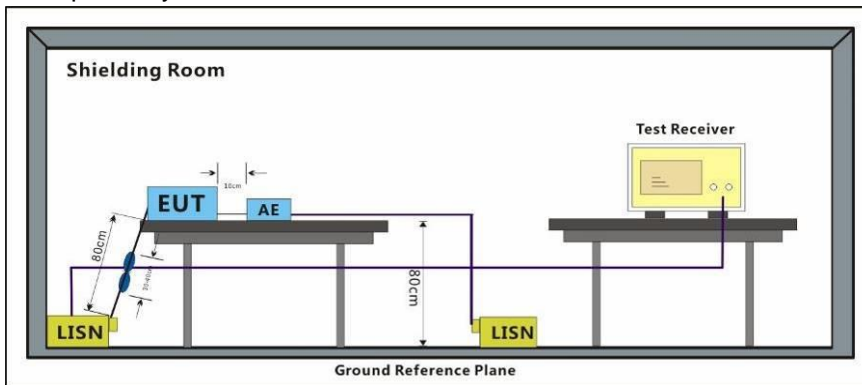
Temperature:	22~25°C
Humidity:	44~60%RH
Atmospheric Pressure:	101.0kPa
Pretest these modes to find the worst case:	a: Adaptor+USB+BT Idle+WLAN(2.4G)+Camera(Rear)+WCDMA 5 b: Adaptor+USB+BT Idle+WLAN(5G)+Camera(Front)+LTE Band 5 c: Adaptor+USB+BT Idle+WLAN(2.4G)+MP4+LTE Band 38 d: Adaptor+USB+BT Idle+WLAN(5G)+GPS RX+LTE Band 41 e: Adaptor+USB+BT Idle+WLAN(2.4G)+FM+LTE Band 38(Sample #1)&WCDMA 5(Sample #2) f: Transfer data between the EUT and the PC+USB cable
The worst case for final test:	For Sample #1: d: Adaptor+USB+BT Idle+WLAN(5G)+GPS RX+LTE Band 41 f: Transfer data between the EUT and the PC+USB cable For Sample #2: c: Adaptor+USB+BT Idle+WLAN(2.4G)+MP4+LTE Band 38 f: Transfer data between the EUT and the PC+USB cable



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**2.1.2 Test Setup Procedures**

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.



**2.1.3 Measurement Data**

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

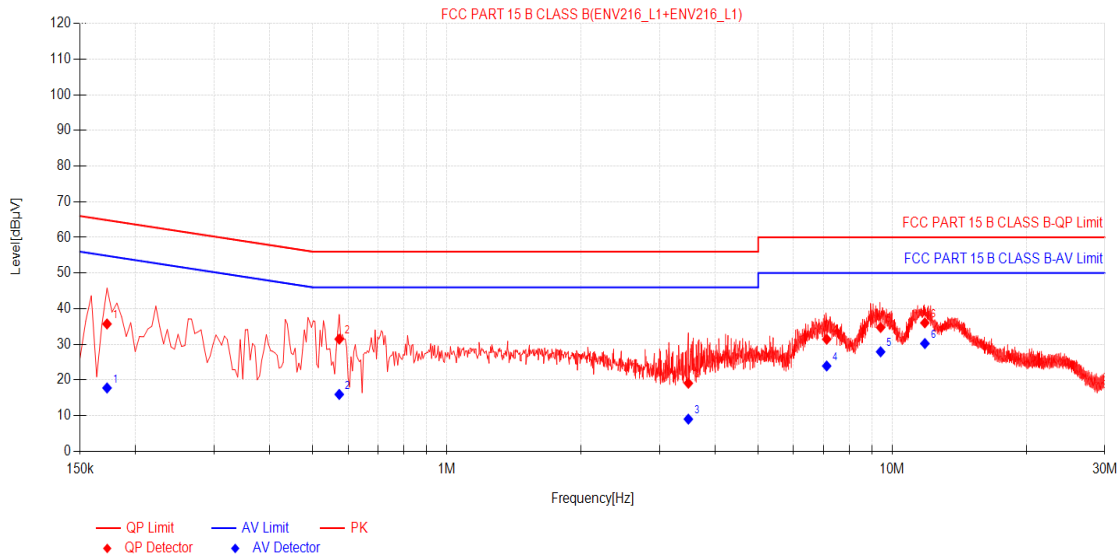


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**For Sample #1:**

Final Test Mode:	Mode d	Phase:	Line
------------------	--------	--------	------



**Final Data List**

NO	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1725	10.73	24.99	35.72	64.84	29.12	7.03	17.76	54.84	37.08	PASS
2	0.5730	10.53	20.94	31.47	56.00	24.53	5.43	15.96	46.00	30.04	PASS
3	3.4845	10.70	8.40	19.10	56.00	36.90	-1.67	9.03	46.00	36.97	PASS
4	7.1250	10.70	20.73	31.43	60.00	28.57	13.24	23.94	50.00	26.06	PASS
5	9.4155	10.65	24.09	34.74	60.00	25.26	17.26	27.91	50.00	22.09	PASS
6	11.8365	10.59	25.44	36.03	60.00	23.97	19.64	30.23	50.00	19.77	PASS

**Remark:**

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading(dBµV) + Factor(Lin factor(dB) + cable loss(dB)).
- Margin = Limit(dBµV) – Value(dBµV)

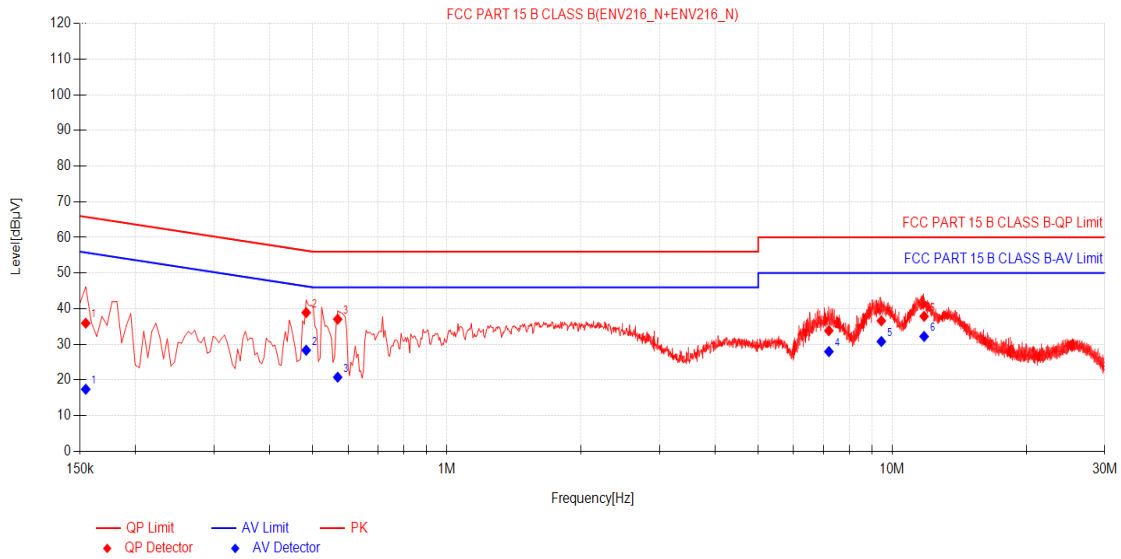


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Final Test Mode:	Mode d	Phase:	Neutral
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### Final Data List

NO	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1545	10.72	25.21	35.93	65.75	29.82	6.69	17.41	55.75	38.34	PASS
2	0.4830	10.81	28.09	38.90	56.29	17.39	17.54	28.35	46.29	17.94	PASS
3	0.5685	10.72	26.34	37.06	56.00	18.94	10.07	20.79	46.00	25.21	PASS
4	7.2060	10.52	23.31	33.83	60.00	26.17	17.45	27.97	50.00	22.03	PASS
5	9.4515	10.64	25.96	36.60	60.00	23.40	20.15	30.79	50.00	19.21	PASS
6	11.7915	10.64	27.21	37.85	60.00	22.15	21.58	32.22	50.00	17.78	PASS

**Remark:**

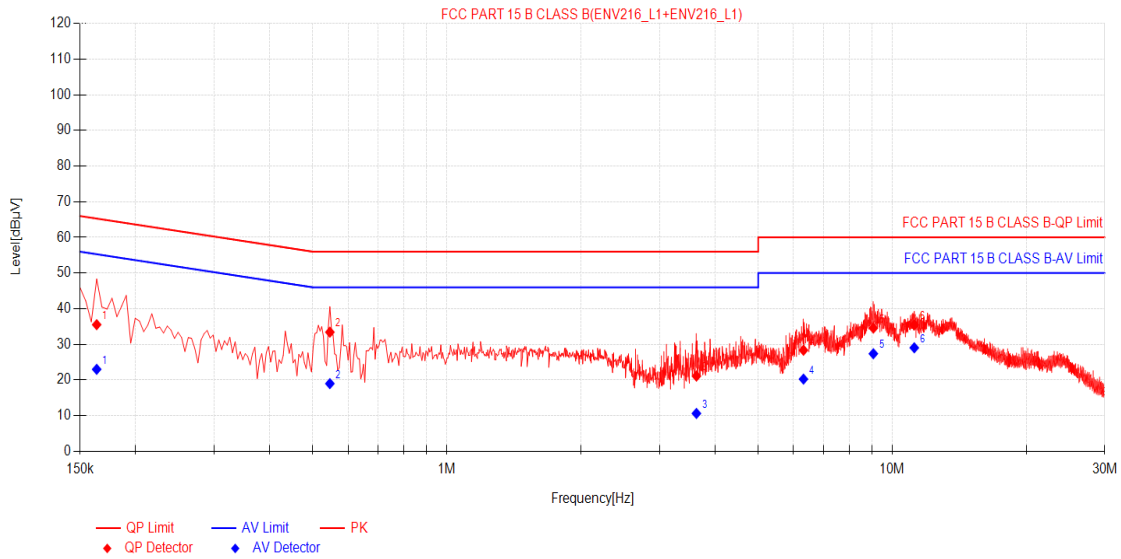
1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading(dBµV) + Factor(Lisn factor(dB) + cable loss(dB)).
3. Margin = Limit(dBµV) – Value(dBµV)



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Final Test Mode:	Mode f	Phase:	Line
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**Final Data List**

NO	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1635	10.69	24.84	35.53	65.28	29.75	12.31	23.00	55.28	32.28	PASS
2	0.5460	10.57	22.85	33.42	56.00	22.58	8.42	18.99	46.00	27.01	PASS
3	3.6330	10.71	10.39	21.10	56.00	34.90	-0.09	10.62	46.00	35.38	PASS
4	6.3195	10.69	17.66	28.35	60.00	31.65	9.57	20.26	50.00	29.74	PASS
5	9.0690	10.66	23.90	34.56	60.00	25.44	16.71	27.37	50.00	22.63	PASS
6	11.2065	10.61	24.83	35.44	60.00	24.56	18.43	29.04	50.00	20.96	PASS

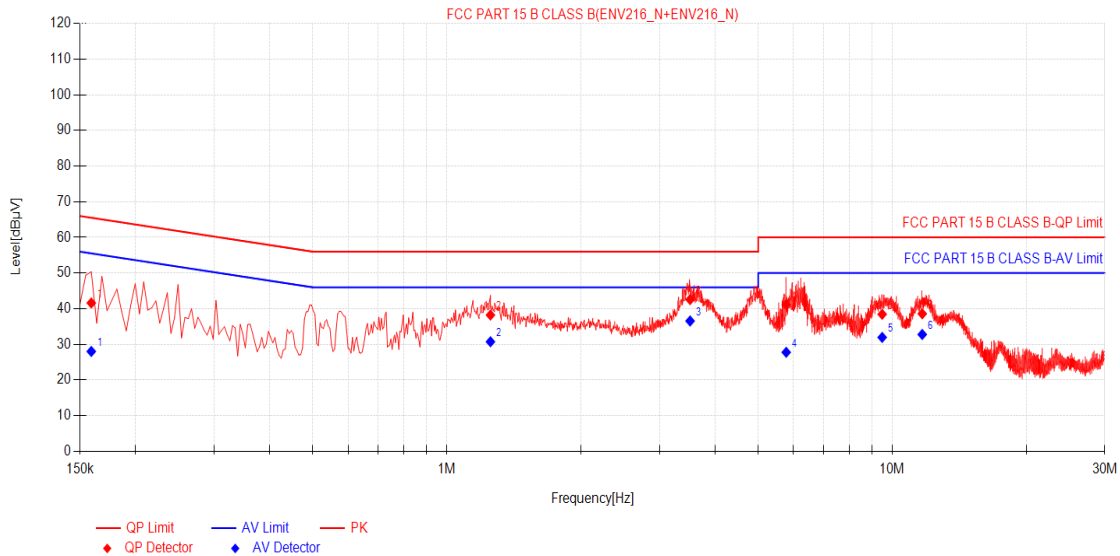
**Remark:**

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading(dBµV) + Factor(Lisn factor(dB) + cable loss(dB)).
- Margin = Limit(dBµV) – Value(dBµV)



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Final Test Mode:	Mode f	Phase:	Neutral
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### Final Data List

NO	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1590	10.72	30.88	41.60	65.52	23.92	17.29	28.01	55.52	27.51	PASS
2	1.2525	10.78	27.44	38.22	56.00	17.78	19.95	30.73	46.00	15.27	PASS
3	3.5160	10.68	31.88	42.56	56.00	13.44	25.88	36.56	46.00	9.44	PASS
4	5.7795	10.59	30.53	41.12	60.00	18.88	17.18	27.77	50.00	22.23	PASS
5	9.4920	10.65	27.78	38.43	60.00	21.57	21.30	31.95	50.00	18.05	PASS
6	11.6790	10.65	27.93	38.58	60.00	21.42	22.13	32.78	50.00	17.22	PASS

Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading(dBµV) + Factor(Lisn factor(dB) + cable loss(dB)).
- Margin = Limit(dBµV) – Value(dBµV)

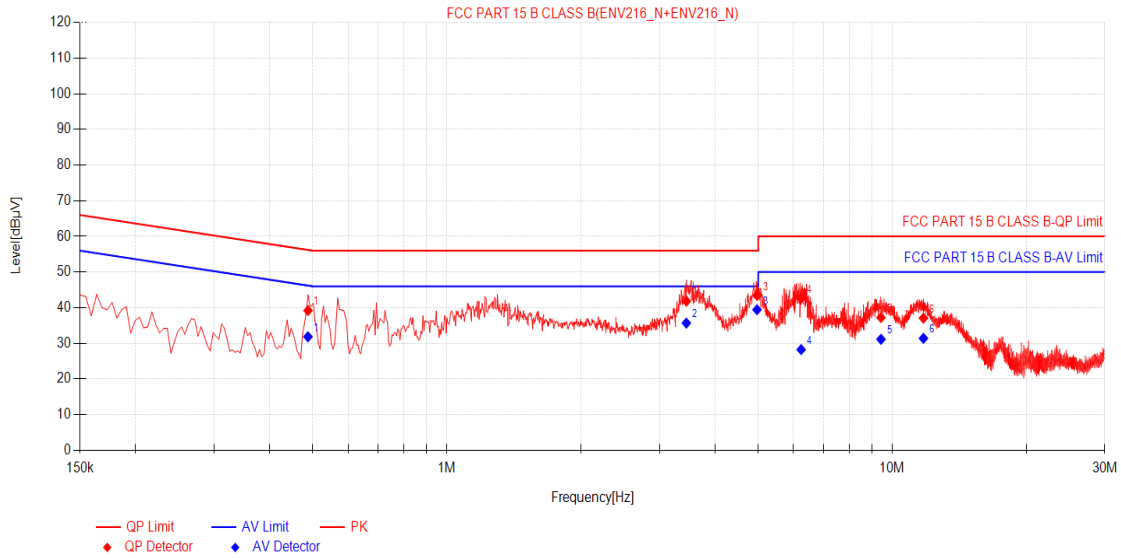


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**For Sample #2:**

Final Test Mode:	Mode c	Phase:	Line
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Final Data List											
NO	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.4875	10.81	28.40	39.21	56.21	17.00	21.04	31.85	46.21	14.36	PASS
2	3.4485	10.66	31.17	41.83	56.00	14.17	25.03	35.69	46.00	10.31	PASS
3	4.9695	10.64	32.83	43.47	56.00	12.53	28.80	39.44	46.00	6.56	PASS
4	6.2430	10.57	32.07	42.64	60.00	17.36	17.68	28.25	50.00	21.75	PASS
5	9.4335	10.64	26.60	37.24	60.00	22.76	20.50	31.14	50.00	18.86	PASS
6	11.7510	10.65	26.42	37.07	60.00	22.93	20.76	31.41	50.00	18.59	PASS

**Remark:**

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading(dBµV) + Factor(Lisn factor(dB) + cable loss(dB)).
- Margin = Limit(dBµV) – Value(dBµV)

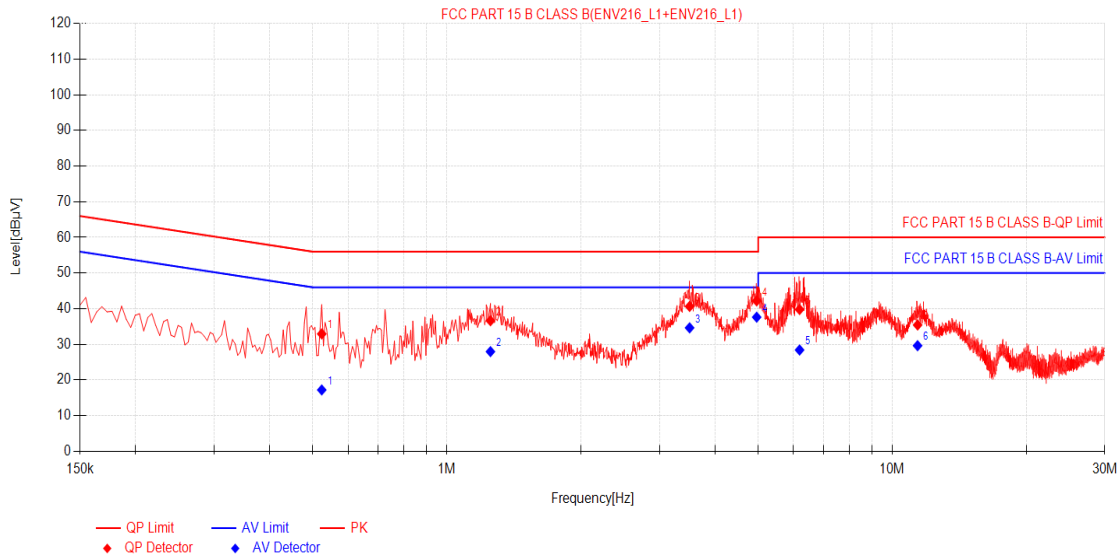


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Final Test Mode:	Mode c	Phase:	Neutral
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**Final Data List**

NO	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.5235	10.59	22.35	32.94	56.00	23.06	6.63	17.22	46.00	28.78	PASS
2	1.2525	10.78	25.86	36.64	56.00	19.36	17.19	27.97	46.00	18.03	PASS
3	3.5070	10.70	29.94	40.64	56.00	15.36	23.93	34.63	46.00	11.37	PASS
4	4.9605	10.64	31.57	42.21	56.00	13.79	26.99	37.63	46.00	8.37	PASS
5	6.1935	10.67	29.11	39.78	60.00	20.22	17.75	28.42	50.00	21.58	PASS
6	11.4000	10.60	24.84	35.44	60.00	24.56	19.03	29.63	50.00	20.37	PASS

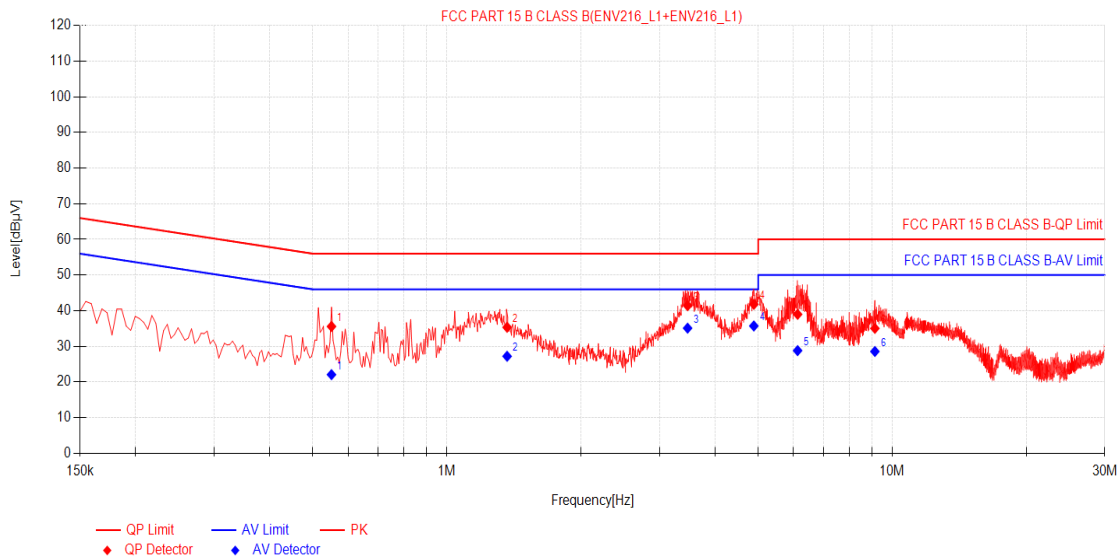
**Remark:**

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading(dBµV) + Factor(Lin factor(dB) + cable loss(dB)).
- Margin = Limit(dBµV) – Value(dBµV)



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Final Test Mode:	Mode f	Phase:	Line
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**Final Data List**

NO	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.5505	10.56	25.02	35.58	56.00	20.42	11.51	22.07	46.00	23.93	PASS
2	1.3650	10.78	24.57	35.35	56.00	20.65	16.44	27.22	46.00	18.78	PASS
3	3.4710	10.70	30.72	41.42	56.00	14.58	24.40	35.10	46.00	10.90	PASS
4	4.8885	10.64	31.16	41.80	56.00	14.20	25.08	35.72	46.00	10.28	PASS
5	6.1305	10.67	28.31	38.98	60.00	21.02	18.14	28.81	50.00	21.19	PASS
6	9.1410	10.65	24.39	35.04	60.00	24.96	17.91	28.56	50.00	21.44	PASS

**Remark:**

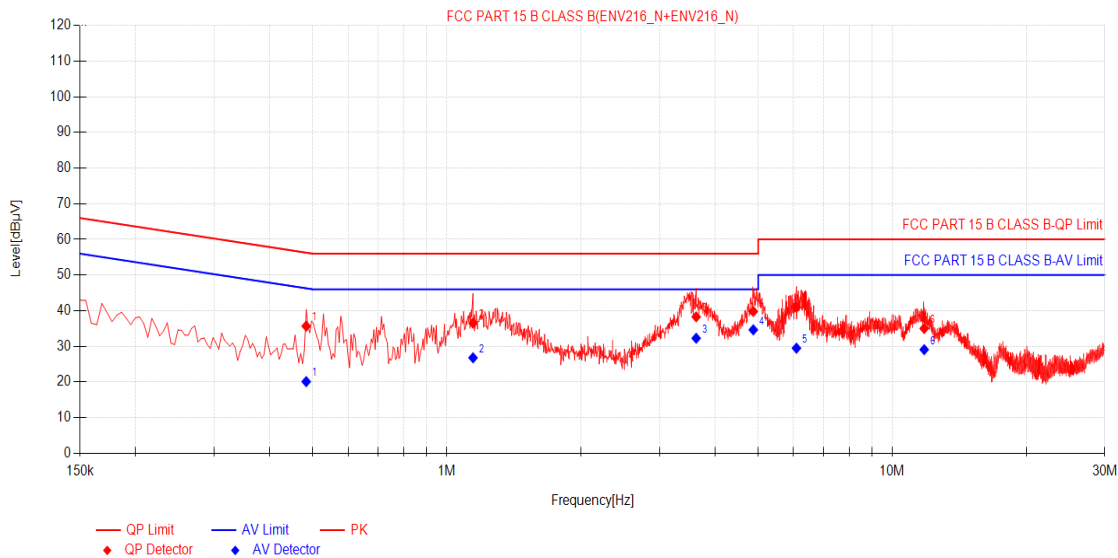
- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading(dBµV) + Factor(Lisn factor(dB) + cable loss(dB)).
- Margin = Limit(dBµV) – Value(dBµV)



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Final Test Mode:	Mode f	Phase:	Neutral
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**Final Data List**

NO	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.4830	10.81	24.87	35.68	56.29	20.61	9.31	20.12	46.29	26.17	PASS
2	1.1445	10.74	25.78	36.52	56.00	19.48	16.05	26.79	46.00	19.21	PASS
3	3.6285	10.69	27.59	38.28	56.00	17.72	21.59	32.28	46.00	13.72	PASS
4	4.8750	10.64	29.16	39.80	56.00	16.20	24.00	34.64	46.00	11.36	PASS
5	6.0945	10.58	30.39	40.97	60.00	19.03	18.91	29.49	50.00	20.51	PASS
6	11.7960	10.64	24.38	35.02	60.00	24.98	18.44	29.08	50.00	20.92	PASS

**Remark:**

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading(dBµV) + Factor(Lin factor(dB) + cable loss(dB)).
- Margin = Limit(dBµV) – Value(dBµV)



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**2.2 Radiated Emissions (30MHz-1GHz)**

Test Requirement:	47 CFR Part 15, Subpart B		
Test Method:	ANSI C63.4:2014		
Frequency Range:	30MHz to 1GHz		
Measurement Distance:	3m		
Limit:	Frequency Range (MHz)	Limit(dBμV/m)	Detector
	30MHz -88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
Detector:	960MHz-1000MHz	54.0	Quasi-peak
	Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz		

**2.2.1 E.U.T. Operation**

Temperature:	22~25°C
Humidity:	44~60%RH
Atmospheric Pressure:	101.0kPa
Pretest these modes to find the worst case:	<p>a: Adaptor+USB+BT Idle+WLAN(2.4G)+Camera(Rear)+WCDMA 5</p> <p>b: Adaptor+USB+BT Idle+WLAN(5G)+Camera(Front)+LTE Band 5</p> <p>c: Adaptor+USB+BT Idle+WLAN(2.4G)+MP4+LTE Band 38</p> <p>d: Adaptor+USB+BT Idle+WLAN(5G)+GPS RX+LTE Band 41</p> <p>e: Adaptor+USB+BT Idle+WLAN(2.4G)+FM+LTE Band 38(Sample #1)&amp;WCDMA 5(Sample #2)</p> <p>f: Transfer data between the EUT and the PC+USB cable</p>
The worst case for final test:	<p>For Sample #1:</p> <p>c: Adaptor+USB+BT Idle+WLAN(2.4G)+MP4+LTE Band 38</p> <p>f: Transfer data between the EUT and the PC+USB cable</p> <p>For Sample #2:</p> <p>e: Adaptor+USB+BT Idle+WLAN(2.4G)+FM+WCDMA 5(Sample #2)</p> <p>f: Transfer data between the EUT and the PC+USB cable</p>

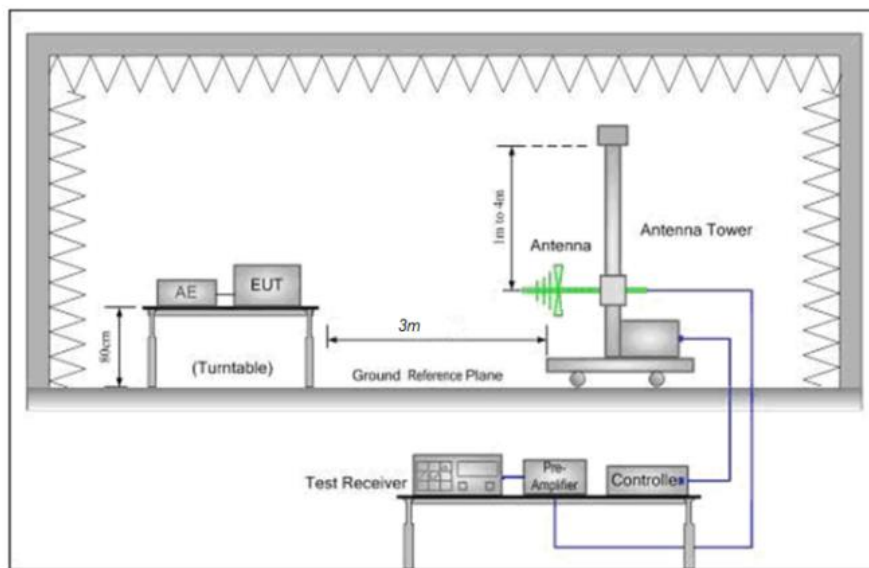


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### 2.2.2 Test Setup Procedures

1. The EUT was placed in a semi Anechoic Chamber as show below
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.
7. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.



### 2.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. The three polarities of X,Y,Z were measured by EUT, but only the worst data had been displayed.

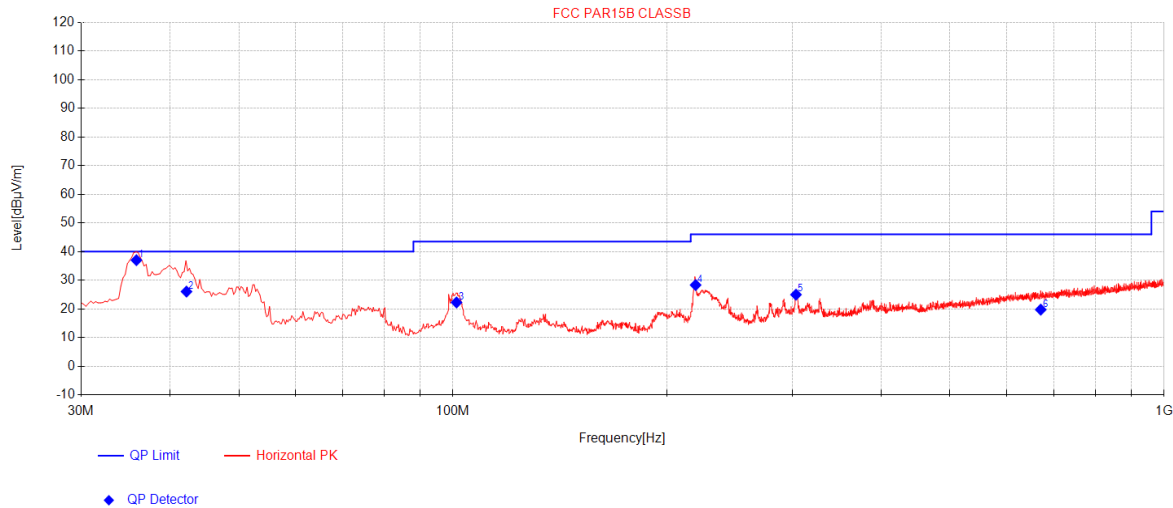


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**For Sample #1:**

Final Test Mode:	Mode c	Polarization:	Horizontal
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Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.8887	54.35	10.93	-28.29	36.99	40.00	3.01	107	118	Horizontal
2	42.2082	41.57	12.53	-28.07	26.03	40.00	13.97	189	152	Horizontal
3	101.1689	38.83	10.79	-27.37	22.25	43.50	21.25	211	358	Horizontal
4	219.3988	43.31	11.45	-26.44	28.32	46.00	17.68	120	1	Horizontal
5	303.6630	37.90	13.46	-26.39	24.97	46.00	21.03	117	47	Horizontal
6	670.7685	24.38	19.48	-24.12	19.74	46.00	26.26	112	278	Horizontal

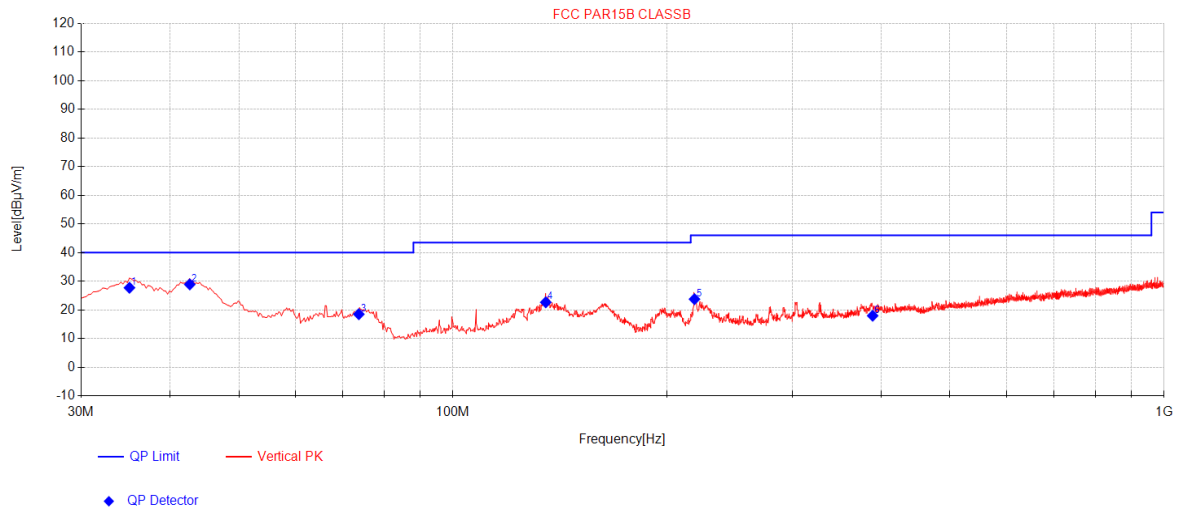
**Remark:**

- The Quasi-Peak measurements were performed on the EUT.
- Value = Reading + AF + Factor:  
 AF = Antenna Factor(dB/m)  
 Factor = Cable Factor(dB) - Preamplifier (dB)  
 Margin = Limit[dBµV/m] - Value[dBµV/m]



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Final Test Mode:	Mode c	Polarization:	Vertical
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**Final Data List**

NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.0910	45.32	10.73	-28.33	27.72	40.00	12.28	105	165	Vertical
2	42.6559	44.33	12.62	-28.06	28.89	40.00	11.11	100	153	Vertical
3	73.7342	38.28	8.04	-27.82	18.50	40.00	21.50	214	360	Vertical
4	135.0758	41.94	7.85	-27.14	22.65	43.50	20.85	106	327	Vertical
5	218.6137	38.80	11.41	-26.46	23.75	46.00	22.25	108	86	Vertical
6	389.2209	28.05	15.34	-25.42	17.97	46.00	28.03	179	8	Vertical

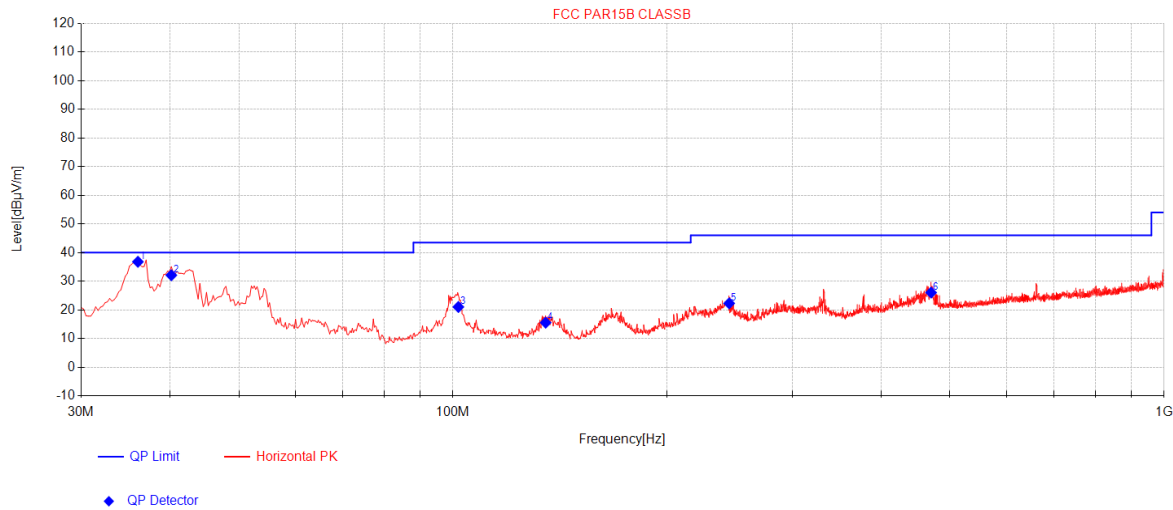
**Remark:**

- The Quasi-Peak measurements were performed on the EUT.
- Value = Reading + AF + Factor:  
 AF = Antenna Factor(dB/m)  
 Factor = Cable Factor(dB) - Preamplifier (dB)  
 Margin = Limit[dBµV/m] -Value[dBµV/m]



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Final Test Mode:	Mode f	Polarization:	Horizontal
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**Final Data List**

NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.0625	54.06	11.00	-28.28	36.78	40.00	3.22	136	33	Horizontal
2	40.185	48.03	12.14	-28.08	32.09	40.00	7.91	254	307	Horizontal
3	101.78	37.62	10.78	-27.37	21.03	43.50	22.47	175	216	Horizontal
4	135.0025	34.85	7.85	-27.14	15.55	43.50	27.95	284	1	Horizontal
5	244.6125	36.54	11.86	-26.11	22.29	46.00	23.71	163	83	Horizontal
6	470.38	34.52	16.29	-24.78	26.03	46.00	19.97	222	35	Horizontal

**Remark:**

1. The Quasi-Peak measurements were performed on the EUT.

2. Value = Reading + AF + Factor:

AF = Antenna Factor(dB/m)

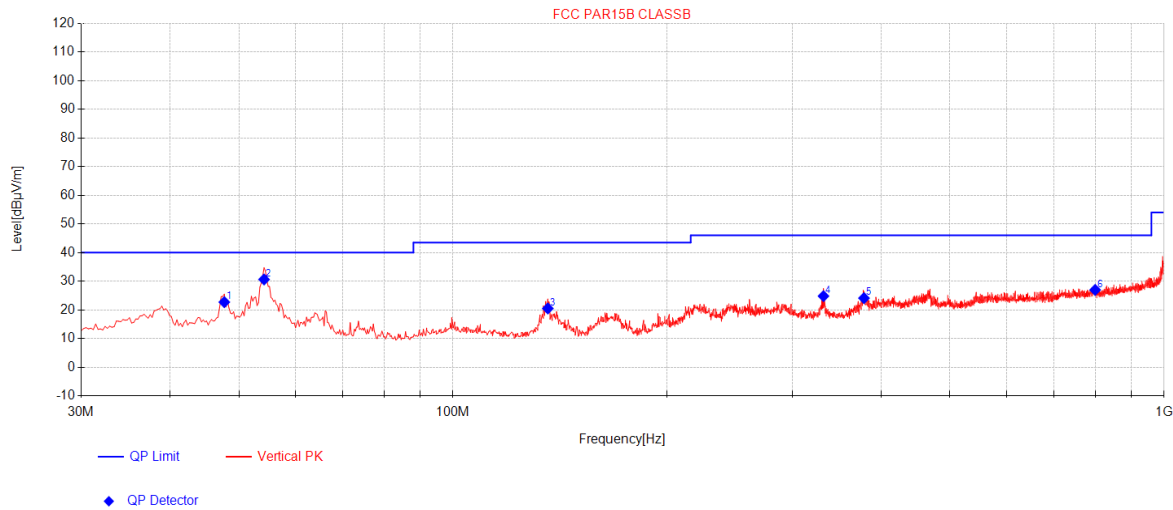
Factor = Cable Factor(dB) - Preamplifier (dB)

Margin = Limit[dBµV/m] -Value[dBµV/m]



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Final Test Mode:	Mode f	Polarization:	Vertical
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**Final Data List**

NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	47.7025	37.26	13.48	-28.03	22.71	40.00	17.29	263	249	Vertical
2	54.25	45.68	12.78	-27.85	30.61	40.00	9.39	102	274	Vertical
3	135.9725	39.87	7.78	-27.14	20.51	43.50	22.99	152	343	Vertical
4	331.9125	36.55	14.05	-25.79	24.81	46.00	21.19	263	31	Vertical
5	378.4725	34.62	15.01	-25.52	24.11	46.00	21.89	255	180	Vertical
6	799.9375	29.63	20.70	-23.36	26.97	46.00	19.03	144	161	Vertical

**Remark:**

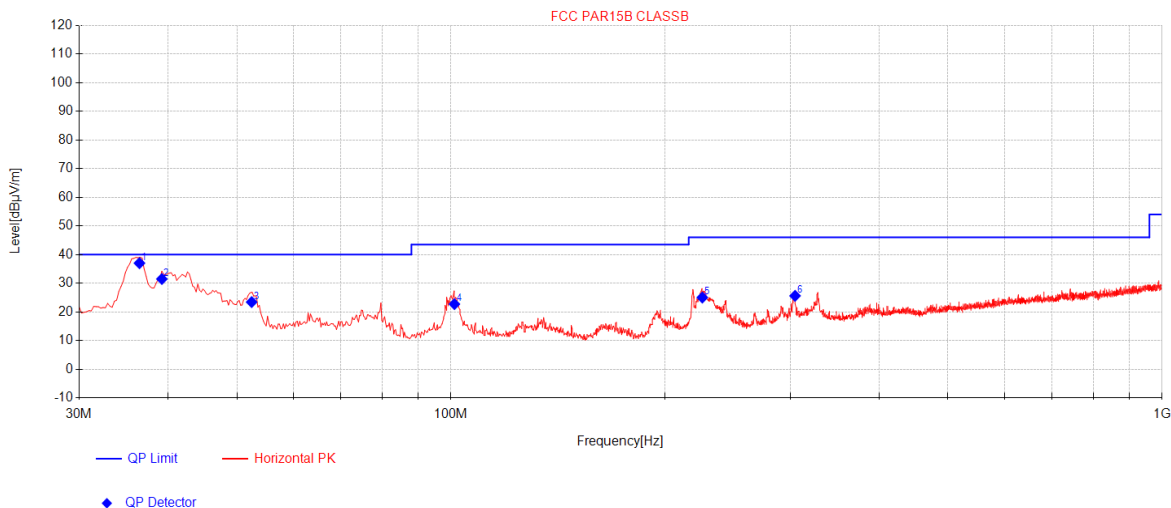
- The Quasi-Peak measurements were performed on the EUT.
- Value = Reading + AF + Factor:  
 AF = Antenna Factor(dB/m)  
 Factor = Cable Factor(dB) - Preamplifier (dB)  
 Margin = Limit[dBµV/m] -Value[dBµV/m]



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**For Sample #2:**

Final Test Mode:	Mode e	Polarization:	Horizontal
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Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.4830	54.12	11.13	-28.25	37.00	40.00	3.00	196	259	Horizontal
2	39.2232	47.72	11.88	-28.12	31.48	40.00	8.52	212	257	Horizontal
3	52.4567	38.15	13.19	-27.91	23.43	40.00	16.57	106	38	Horizontal
4	101.1395	39.30	10.79	-27.37	22.72	43.50	20.78	217	357	Horizontal
5	225.6720	39.79	11.70	-26.48	25.01	46.00	20.99	189	6	Horizontal
6	304.7201	38.54	13.46	-26.40	25.60	46.00	20.40	109	289	Horizontal

Remark:

1. The Quasi-Peak measurements were performed on the EUT.

2. Value = Reading + AF + Factor:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

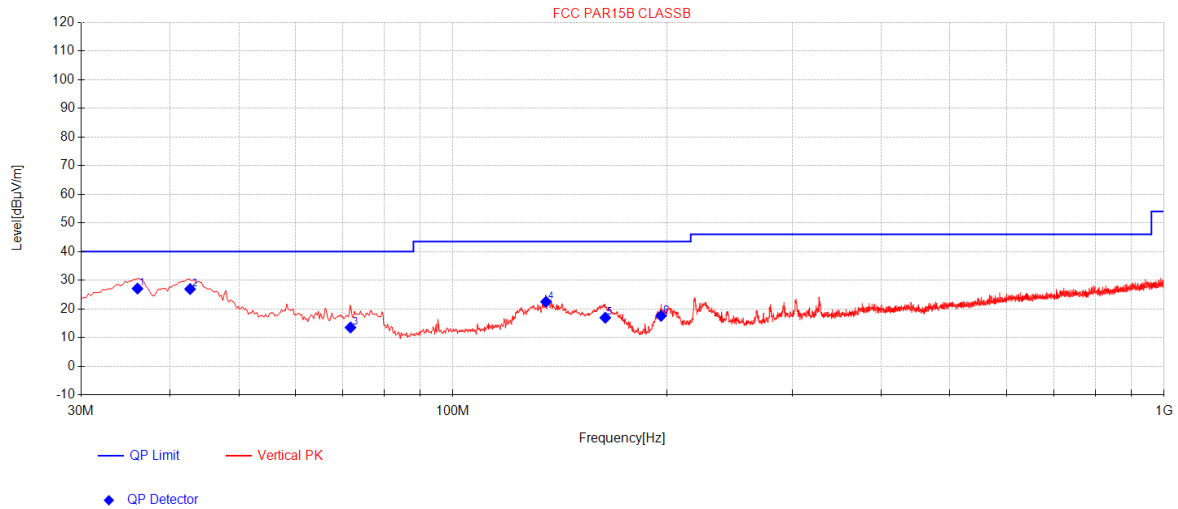
Margin = Limit[dBµV/m] -Value[dBµV/m]



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Final Test Mode:	Mode e	Polarization:	Vertical
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**Final Data List**

NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.0179	44.36	11.00	-28.28	27.08	40.00	12.92	106	167	Vertical
2	42.6982	42.36	12.62	-28.06	26.92	40.00	13.08	114	185	Vertical
3	71.7671	32.87	8.41	-27.77	13.51	40.00	26.49	203	302	Vertical
4	135.1736	41.79	7.83	-27.14	22.48	43.50	21.02	263	9	Vertical
5	163.7691	35.74	7.84	-26.66	16.92	43.50	26.58	175	359	Vertical
6	196.1835	34.44	10.23	-27.09	17.58	43.50	25.92	100	41	Vertical

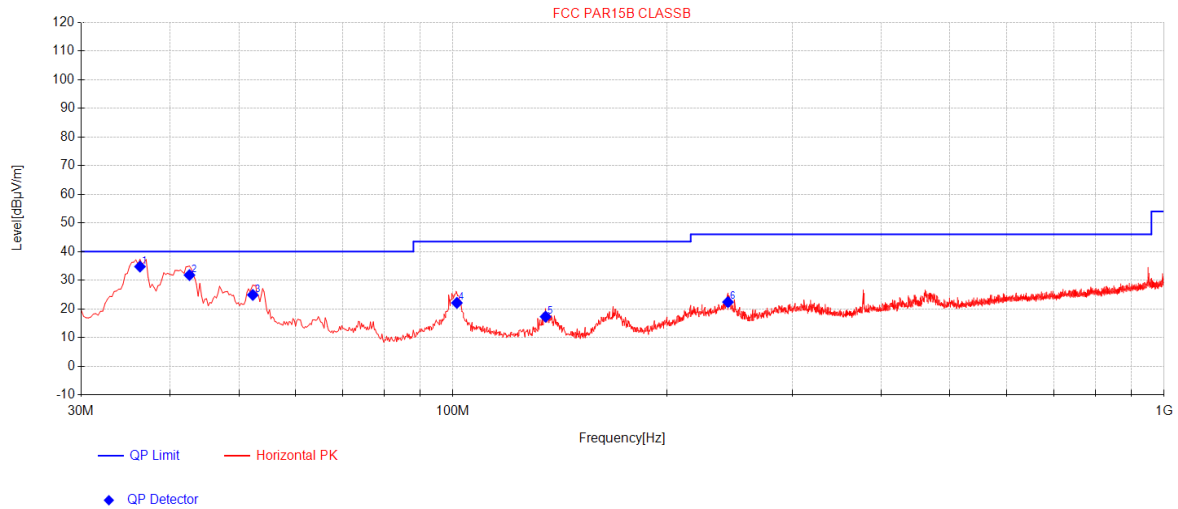
**Remark:**

- The Quasi-Peak measurements were performed on the EUT.
- Value = Reading + AF + Factor:  
 AF = Antenna Factor(dB/m)  
 Factor = Cable Factor(dB) - Preamplifier (dB)  
 Margin = Limit[dBµV/m] -Value[dBµV/m]



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Final Test Mode:	Mode f	Polarization:	Horizontal
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**Final Data List**

NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.305	51.96	11.07	-28.26	34.76	40.00	5.24	142	21	Horizontal
2	42.61	47.23	12.62	-28.06	31.79	40.00	8.21	163	298	Horizontal
3	52.31	39.56	13.25	-27.92	24.88	40.00	15.12	251	282	Horizontal
4	101.295	38.68	10.79	-27.37	22.10	43.50	21.40	141	0	Horizontal
5	135.0025	36.58	7.85	-27.14	17.28	43.50	26.22	185	146	Horizontal
6	243.6425	36.66	11.85	-26.13	22.38	46.00	23.62	166	101	Horizontal

**Remark:**

1. The Quasi-Peak measurements were performed on the EUT.

2. Value = Reading + AF + Factor:

AF = Antenna Factor(dB/m)

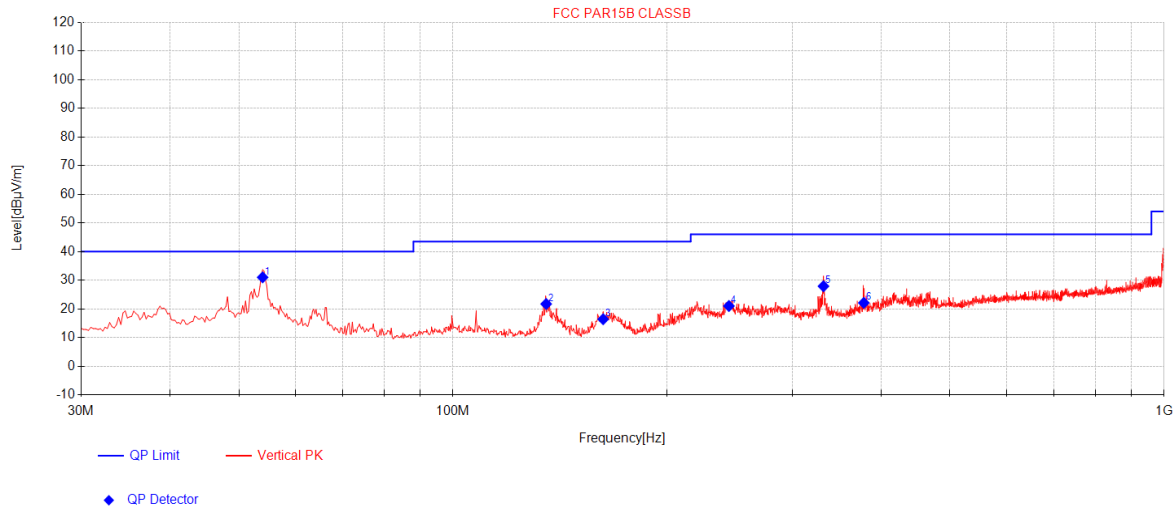
Factor = Cable Factor(dB) - Preamplifier (dB)

Margin = Limit[dBµV/m] -Value[dBµV/m]



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Final Test Mode:	Mode f	Polarization:	Vertical
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**Final Data List**

NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	54.0075	46.03	12.84	-27.86	31.01	40.00	8.99	142	252	Vertical
2	135.245	41.02	7.83	-27.14	21.71	43.50	21.79	263	21	Vertical
3	162.6475	35.26	7.83	-26.69	16.40	43.50	27.10	265	358	Vertical
4	244.37	35.26	11.85	-26.11	21.00	46.00	25.00	294	339	Vertical
5	331.9125	39.65	14.05	-25.79	27.91	46.00	18.09	102	29	Vertical
6	378.23	32.62	15.00	-25.53	22.10	46.00	23.90	104	1	Vertical

**Remark:**

- The Quasi-Peak measurements were performed on the EUT.
- Value = Reading + AF + Factor:  
 AF = Antenna Factor(dB/m)  
 Factor = Cable Factor(dB) - Preamplifier (dB)  
 Margin = Limit[dBµV/m] -Value[dBµV/m]



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**2.3 Radiated Emissions (above 1GHz)**

Test Requirement:	47 CFR Part 15, Subpart B		
Test Method:	ANSI C63.4:2014		
Frequency Range:	Above 1GHz		
Measurement Distance:	3m		
Limit:	Frequency (MHz)	Limit (dBμV/m)	Detector
	Above 1GHz	74	Peak
		54	Average
Detector:	Peak for pre-scan (1000kHz resolution bandwidth) 5th harmonic of the highest frequency or 40GHz, whichever is lower.		

**2.3.1 E.U.T. Operation**

Temperature:	22~25°C
Humidity:	44~60%RH
Atmospheric Pressure:	101.0kPa
Pretest these modes to find the worst case:	<p>a: Adaptor+USB+BT Idle+WLAN(2.4G)+Camera(Rear)+WCDMA 5</p> <p>b: Adaptor+USB+BT Idle+WLAN(5G)+Camera(Front)+LTE Band 5</p> <p>c: Adaptor+USB+BT Idle+WLAN(2.4G)+MP4+LTE Band 38</p> <p>d: Adaptor+USB+BT Idle+WLAN(5G)+GPS RX+LTE Band 41</p> <p>e: Adaptor+USB+BT Idle+WLAN(2.4G)+FM+LTE Band 38(Sample #1)&amp;WCDMA 5(Sample #2)</p> <p>f: Transfer data between the EUT and the PC+USB cable</p>
The worst case for final test:	<p>For Sample #1:</p> <p>c: Adaptor+USB+BT Idle+WLAN(2.4G)+MP4+LTE Band 38</p> <p>f: Transfer data between the EUT and the PC+USB cable</p> <p>For Sample #2:</p> <p>b: Adaptor+USB+BT Idle+WLAN(5G)+Camera(Front)+LTE Band 5</p> <p>f: Transfer data between the EUT and the PC+USB cable</p>

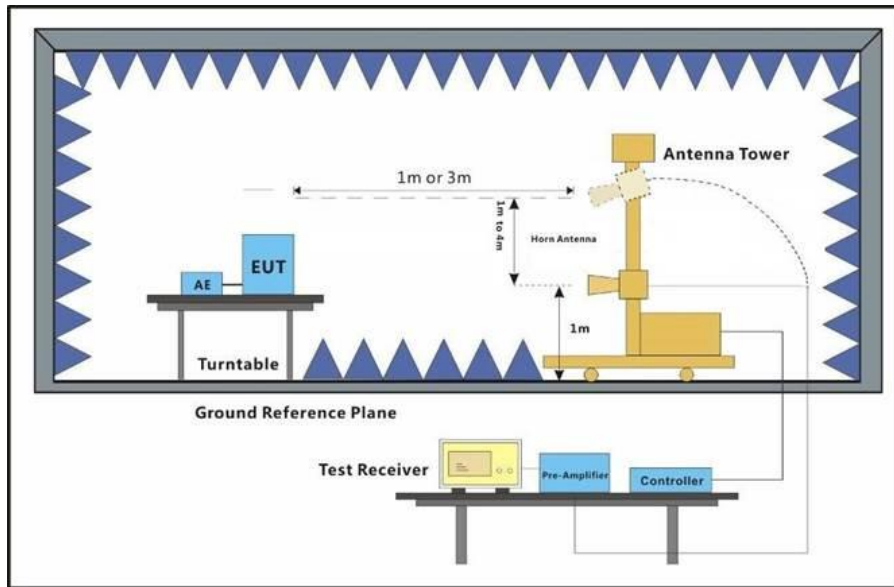


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**2.3.2 Test Setup Procedures**

1. The EUT was placed in a full Anechoic Chamber as show below
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation  
(Distance from antenna to EUT is 1m for measurements >18GHz).
4. The antenna height is adjusted between 1 to 4 meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak and AV Detect Function with specified bandwidth with Maximum Hold Mode, and the trace was allowed to stabilize.
7. At a measurement distance of 1 meter the limit line was increased by  $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$ .



**2.3.3 Measurement Data**

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The three polarities of X, Y, Z were measured by EUT, but only the worst data had been displayed.

Scan from 5th harmonic of the highest frequency or 40GHz, whichever is lower, the disturbance above 18GHz was very low. The points marked on below plots are the highest emissions could be found when testing, so only below points had been displayed.



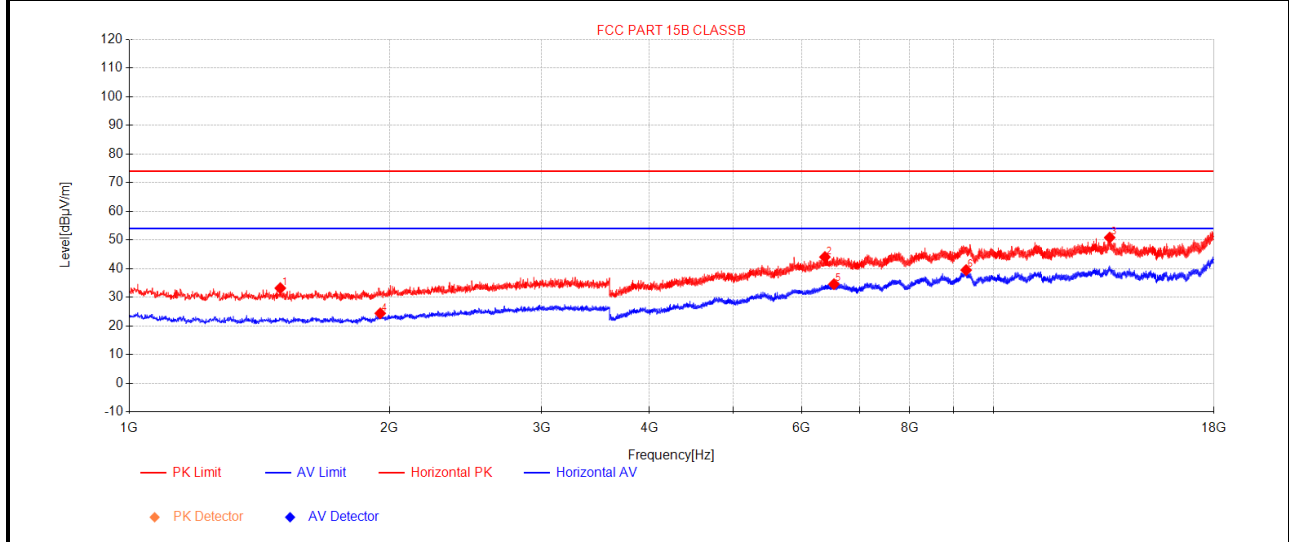
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**For Sample #1:**

Final Test Mode:	Mode c	Polarization:	Horizontal
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**Data List**

NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1495.55	56.17	25.50	33.16	-48.50	74.00	40.84	172	134	Horizontal
2	6383.05	51.83	34.97	44.01	-42.78	74.00	29.99	265	359	Horizontal
3	13632.7	45.36	39.98	50.79	-34.55	74.00	23.21	284	134	Horizontal
4	1952	45.90	26.56	24.37	-48.09	54.00	29.63	179	78	Horizontal
5	6538.6	42.31	35.28	34.55	-43.04	54.00	19.45	268	247	Horizontal
6	9299.4	39.18	38.57	39.46	-38.29	54.00	14.54	241	78	Horizontal

**Remark:**

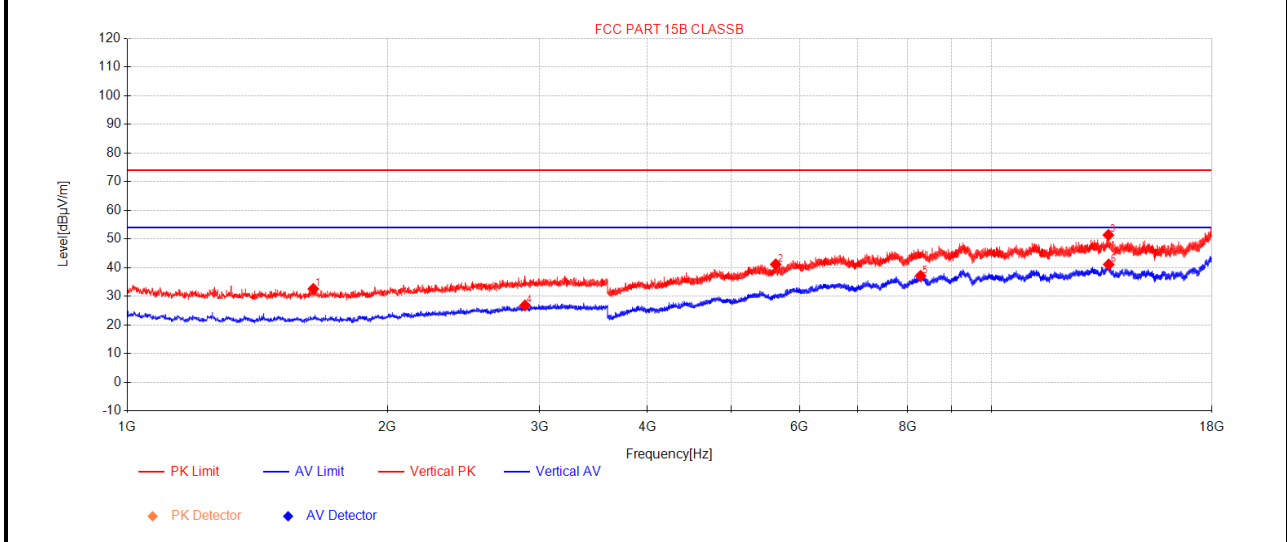
1. The Peak and Average measurements were performed on the EUT.
2. Level = Reading Level + AF + Factor:  
 AF = Antenna Factor(dB/m)  
 Factor = Cable Factor(dB) - Preamplifier gain(dB)  
 Margin = Limit[dBµV/m] – Level[dBµV/m]



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Final Test Mode:	Mode c	Polarization:	Vertical
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**Data List**

NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1641.75	55.36	25.58	32.54	-48.40	74.00	41.46	185	187	Vertical
2	5628.25	51.75	33.01	41.11	-43.65	74.00	32.89	265	187	Vertical
3	13657.35	46.02	39.99	51.34	-34.68	74.00	22.66	241	245	Vertical
4	2886.15	44.36	29.21	26.79	-46.78	54.00	27.21	126	38	Vertical
5	8279.4	39.84	37.81	37.09	-40.55	54.00	16.91	263	339	Vertical
6	13670.1	35.82	40.00	41.08	-34.74	54.00	12.92	241	263	Vertical

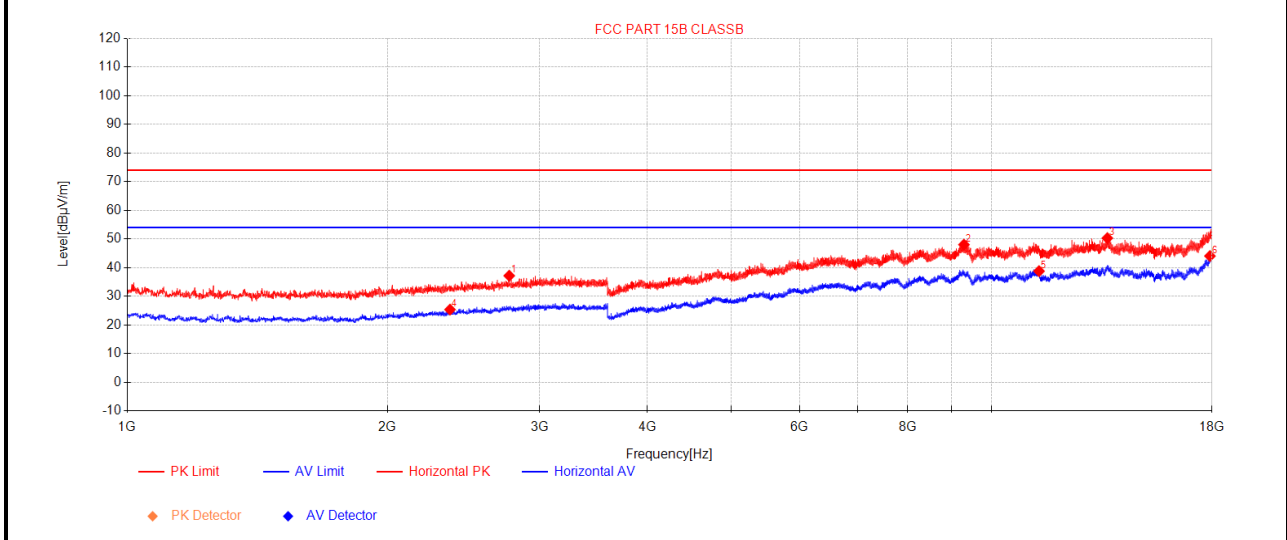
**Remark:**

1. The Peak and Average measurements were performed on the EUT.
2. Level = Reading Level + AF + Factor:  
 AF = Antenna Factor(dB/m)  
 Factor = Cable Factor(dB) - Preamplifier gain(dB)  
 Margin = Limit[dBµV/m] – Level[dBµV/m]



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Final Test Mode:	Mode f	Polarization:	Horizontal
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**Data List**

NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2767.15	55.15	28.81	37.15	-46.80	74.00	36.85	142	319	Horizontal
2	9295.15	47.70	38.57	47.98	-38.29	74.00	26.02	286	299	Horizontal
3	13619.1	44.77	39.97	50.26	-34.48	74.00	23.74	263	360	Horizontal
4	2363.4	45.31	27.63	25.33	-47.60	54.00	28.67	265	263	Horizontal
5	11353.85	34.59	39.25	38.74	-35.09	54.00	15.26	241	208	Horizontal
6	17902.25	32.38	42.21	44.01	-30.58	54.00	9.99	178	319	Horizontal

**Remark:**

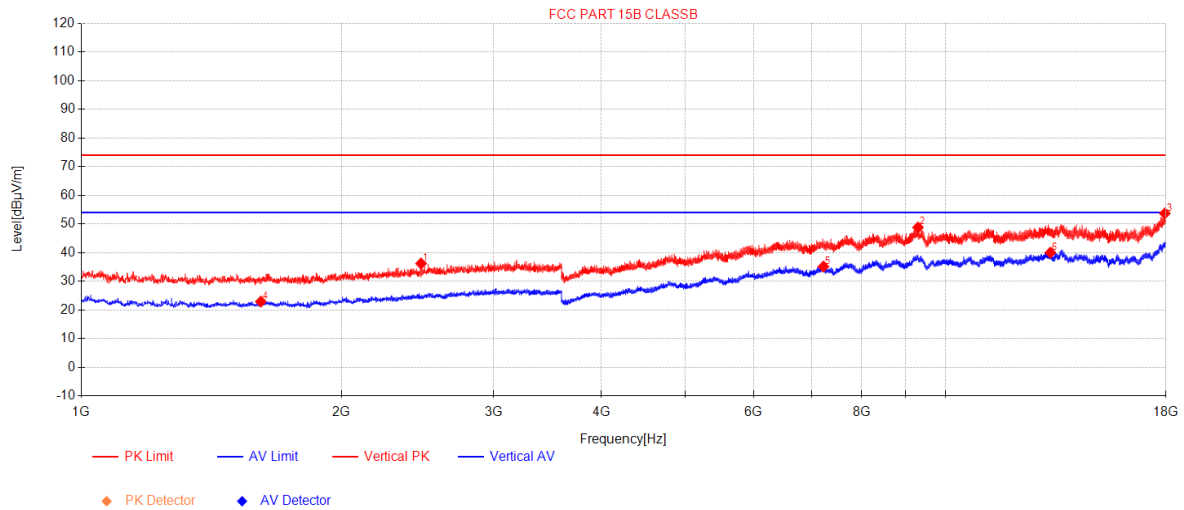
- The Peak and Average measurements were performed on the EUT.
- Level = Reading Level + AF + Factor:  
 AF = Antenna Factor(dB/m)  
 Factor = Cable Factor(dB) - Preamplifier gain(dB)  
 Margin = Limit[dBµV/m] – Level[dBµV/m]



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Final Test Mode:	Mode f	Polarization:	Vertical
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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2473.05	55.31	27.85	36.19	-46.97	74.00	37.81	142	264	Vertical
2	9296.85	48.50	38.57	48.78	-38.29	74.00	25.22	285	338	Vertical
3	17946.45	41.57	42.39	53.64	-30.31	74.00	20.36	263	0	Vertical
4	1613.7	45.77	25.59	22.88	-48.48	54.00	31.12	251	59	Vertical
5	7226.25	40.80	36.34	35.10	-42.03	54.00	18.90	196	21	Vertical
6	13226.4	35.24	39.74	39.98	-35.00	54.00	14.02	263	117	Vertical

Remark:

- The Peak and Average measurements were performed on the EUT.
- Level = Reading Level + AF + Factor:  
 AF = Antenna Factor(dB/m)  
 Factor = Cable Factor(dB) - Preamplifier gain(dB)  
 Margin = Limit[dBµV/m] – Level[dBµV/m]

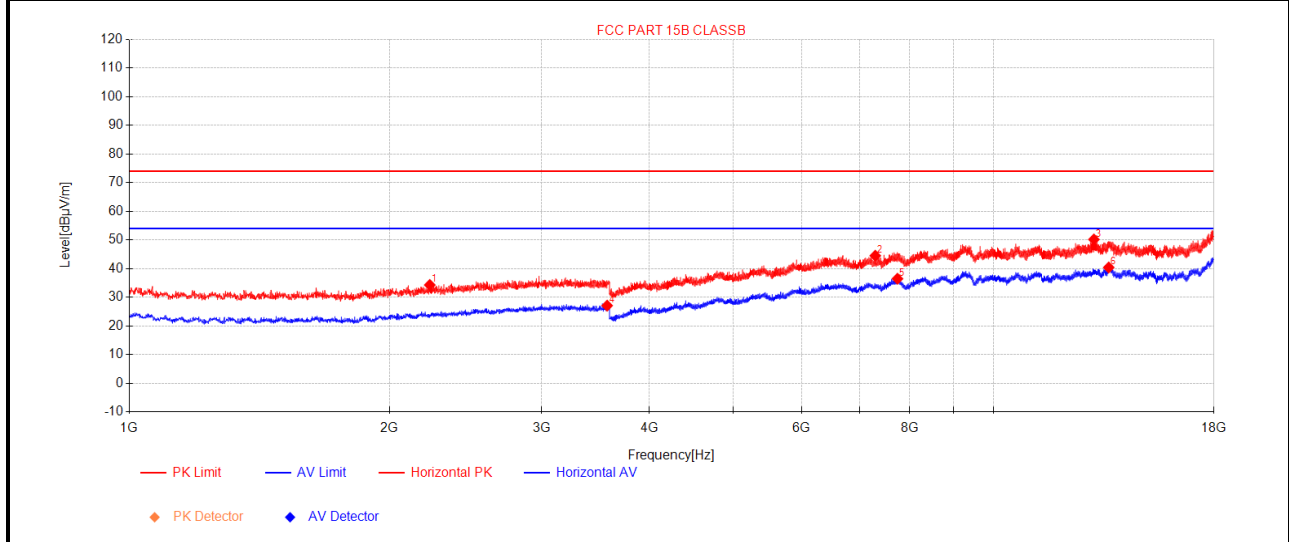


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**For Sample #2:**

Final Test Mode:	Mode b	Polarization:	Horizontal
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**Data List**

NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2227.4	54.63	27.35	34.27	-47.71	74.00	39.73	142	152	Horizontal
2	7300.2	49.97	36.38	44.47	-41.88	74.00	29.53	285	114	Horizontal
3	13070.85	45.51	39.64	50.15	-35.00	74.00	23.85	263	133	Horizontal
4	3572.95	43.45	29.58	27.06	-45.97	54.00	26.94	254	3	Horizontal
5	7744.75	40.64	36.99	36.45	-41.18	54.00	17.55	142	208	Horizontal
6	13597	34.78	39.96	40.37	-34.37	54.00	13.63	287	37	Horizontal

**Remark:**

1. The Peak and Average measurements were performed on the EUT.
2. Level = Reading Level + AF + Factor:  
 AF = Antenna Factor(dB/m)  
 Factor = Cable Factor(dB) - Preamplifier gain(dB)  
 Margin = Limit[dBµV/m] – Level[dBµV/m]

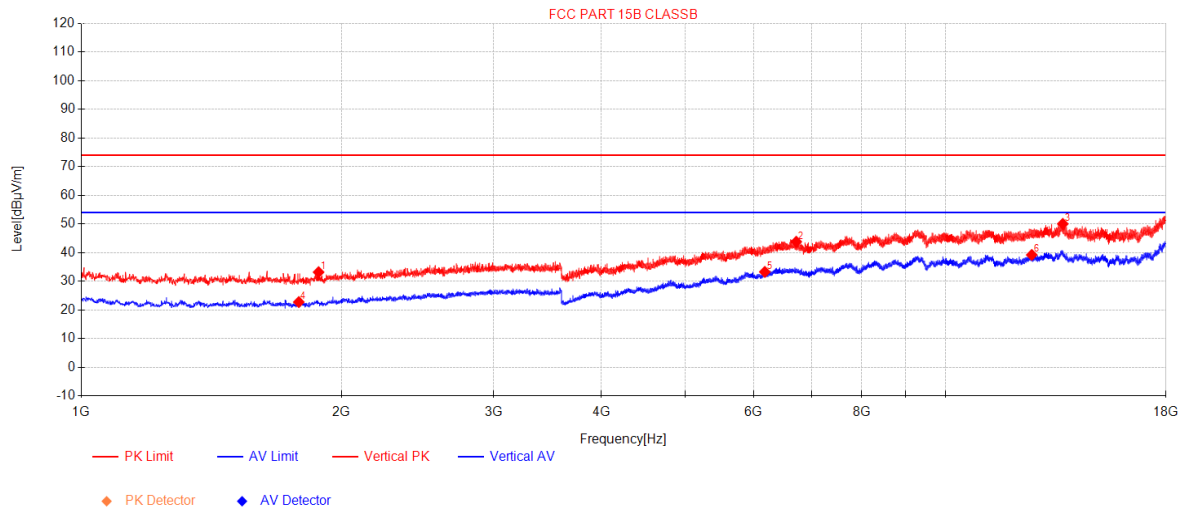


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Final Test Mode:	Mode b	Polarization:	Vertical
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**Data List**

NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1882.3	55.24	26.08	33.16	-48.15	74.00	40.84	142	134	Vertical
2	6721.35	50.95	35.64	43.77	-42.83	74.00	30.23	285	247	Vertical
3	13673.5	44.76	40.00	50.00	-34.76	74.00	24.00	263	0	Vertical
4	1785.4	45.56	25.51	22.73	-48.33	54.00	31.27	265	94	Vertical
5	6180.75	41.74	34.56	33.25	-43.05	54.00	20.75	241	321	Vertical
6	12587.2	35.27	39.19	39.18	-35.27	54.00	14.82	178	1	Vertical

**Remark:**

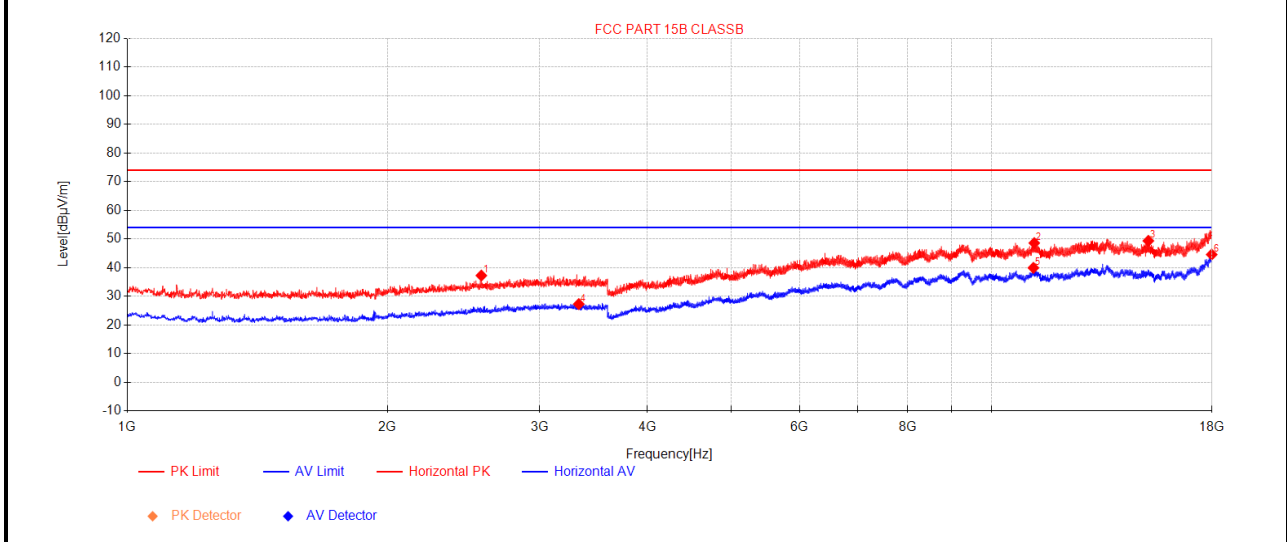
- The Peak and Average measurements were performed on the EUT.
- Level = Reading Level + AF + Factor:  
 AF = Antenna Factor(dB/m)  
 Factor = Cable Factor(dB) - Preamplifier gain(dB)  
 Margin = Limit[dBµV/m] – Level[dBµV/m]



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Final Test Mode:	Mode f	Polarization:	Horizontal
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**Data List**

NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2569.1	56.16	28.13	37.21	-47.09	74.00	36.79	142	114	Horizontal
2	11210.2	44.49	39.39	48.56	-35.32	74.00	25.44	286	21	Horizontal
3	15192.45	43.23	38.95	49.32	-32.86	74.00	24.68	255	172	Horizontal
4	3330.7	43.95	29.47	27.26	-46.16	54.00	26.74	241	359	Horizontal
5	11184.7	35.86	39.42	39.89	-35.39	54.00	14.11	178	360	Horizontal
6	17986.4	32.06	42.55	44.53	-30.07	54.00	9.47	263	114	Horizontal

**Remark:**

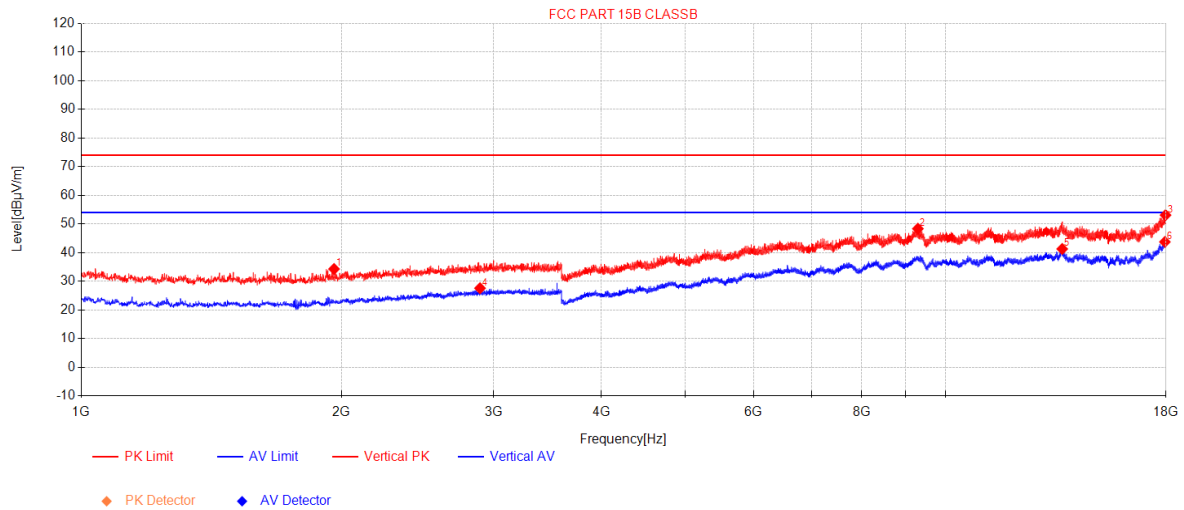
- The Peak and Average measurements were performed on the EUT.
- Level = Reading Level + AF + Factor:  
 AF = Antenna Factor(dB/m)  
 Factor = Cable Factor(dB) - Preamplifier gain(dB)  
 Margin = Limit[dBµV/m] – Level[dBµV/m]



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Final Test Mode:	Mode f	Polarization:	Vertical
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**Data List**

NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1961.35	55.73	26.63	34.27	-48.09	74.00	39.73	263	265	Vertical
2	9293.45	48.04	38.57	48.32	-38.29	74.00	25.68	251	246	Vertical
3	17977.05	40.68	42.51	53.06	-30.13	74.00	20.94	142	0	Vertical
4	2893.8	45.11	29.24	27.56	-46.79	54.00	26.44	284	151	Vertical
5	13651.4	35.91	39.99	41.25	-34.65	54.00	12.75	179	208	Vertical
6	17947.3	31.63	42.39	43.71	-30.31	54.00	10.29	201	96	Vertical

**Remark:**

- The Peak and Average measurements were performed on the EUT.
- Level = Reading Level + AF + Factor:  
 AF = Antenna Factor(dB/m)  
 Factor = Cable Factor(dB) - Preamplifier gain(dB)  
 Margin = Limit[dBµV/m] – Level[dBµV/m]



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### 3 Equipment List

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07
Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-16-08	2022/02/14	2023/02/13
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15
Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	2021/12/04	2022/12/03
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18
Measurement Software CE	Tonsend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR



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RE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-16-08	2022/02/14	2023/02/13
Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	2021/12/04	2022/12/03
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR



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## 4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 2.9dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)

Remark:  
 The  $U_{lab}$  (lab Uncertainty) is less than  $U_{CISPR/ETSI}$  (CISPR/ETSI Uncertainty), so the test results  
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;  
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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## 5 Photographs

### 5.1 Test Setup

Refer to Appendix A.1 15B Setup Photos.

- End of the Report -



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