



Part 15C

TEST REPORT

Product Name	Smart Phone
Model Name	HUAWEI Y560-L01, Y560-L01
Client	QISY560-L01
Manufacturer	Huawei Technologies Co., Ltd.
Date of issue	September 30, 2015

TA Technology (Shanghai) Co., Ltd.

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GENERAL SUMMARY

Reference Standard(s)	FCC CFR47 Part 15C (2014) Radio Frequency Devices 15.205 Restricted bands of operation; 15.207 Conducted limits; 15.209 Radiated emission limits; general requirements; 15.247 Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850MHz. ANSI C63.10 Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9 KHz to 40GHz. (2013) KDB 558074 D01 Federal Communications Commission Office of Engineering and Technology Laboratory Division
Conclusion	This portable wireless equipment has been measured in all cases requested by the relevant standards. Test results in Chapter 2 of this test report are below limits specified in the relevant standards. General Judgment: Pass
Comment	The test result only responds to the measured sample.

Approved by Kai Xu
Kai Xu
Director

Revised by Lingling Kang
Lingling Kang
RF Manager

Performed by Peng Tao
Peng Tao
RF Engineer

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1. General Information

1.1. Notes of the test report

TA Technology (Shanghai) Co., Ltd. has obtained the accreditation of China National Accreditation Service for Conformity Assessment (CNAS), and accreditation number: L2264.

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements. The site recognition number is 428261.

TA Technology (Shanghai) Co., Ltd. has been listed by industry Canada to perform electromagnetic emission measurement. The site recognition number is 8510A.

TA Technology (Shanghai) Co., Ltd. guarantees the reliability of the data presented in this test report, which is the results of measurements and tests performed for the items under test on the date and under the conditions stated in this test report and is based on the knowledge and technical facilities available at TA Technology (Shanghai) Co., Ltd. at the time of execution of the test.

TA Technology (Shanghai) Co., Ltd. is liable to the client for the maintenance by its personnel of the confidentiality of all information related to the items under test and the results of the test. This report only refers to the item that has undergone the test.

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of **TA Technology (Shanghai) Co., Ltd.**

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1.2. Testing laboratory

Company: TA Technology (Shanghai) Co., Ltd.
Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong
City: Shanghai
Post code: 201201
Country: P. R. China
Contact: Xu Kai
Telephone: +86-021-50791141/2/3
Fax: +86-021-50791141/2/3-8000
Website: <http://www.ta-shanghai.com>
E-mail: xukai@ta-shanghai.com

1.3. Applicant Information

Company: Huawei Technologies Co., Ltd.
Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian,
Address: Longgang District, Shenzhen, 518129
P.R. China

1.4. Manufacturer Information

Company: Huawei Technologies Co., Ltd.
Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian,
Address: Longgang District, Shenzhen, 518129
P.R. China

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1.5. Information of EUT

General information

Product IMEI:	867818020409840
Hardware Version:	Ver.A
Software Version:	Y560-L01V100R001C577B039
Antenna Type:	Internal Antenna
Device Operating Configurations:	
Test Mode:	Bluetooth(Low Energy)
Modulation Type:	GFSK
Packet Type:(Maximum Payload)	1Mbps
Max. Conducted Power	-0.837dBm
Power Supply:	Battery or Adapter
Operating Frequency Range(s)	2400 ~ 2483.5 MHz

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Auxiliary equipment details

Name	Model	Manufacturer	Capacity
Battery	HB474284RBC	Huawei Technologies Co., Ltd.	2000mAh
Charger	HW-050100U2W	Huawei Technologies Co., Ltd.	/

1.6. Test Date

The test is performed from September 25, 2015 to September 29, 2015.

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2. Test Information

2.1. Test Mode

During the process of the testing, The EUT is max power transmission with proper modulation.

EUT is stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the worst case was recorded.

Test Modes		
Band	Radiated Test Cases	Conducted Test Cases
Bluetooth(Low Energy)	Channel 0/19/39	Channel 0/19/39

Note: All modes of operation were investigated. The test results shown in the following sections represent the worst case emissions.

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2.2. Summary of test results

Number	Summary of measurements of results	Clause in FCC rules	Verdict
1	Peak Power Output -Conducted	15.247(b)(3)	PASS
2	Occupied Bandwidth (6dB)	15.247(a)(2)	PASS
3	Band Edge Compliance	15.247(d)	PASS
4	Power Spectral Density	15.247(e)	PASS
5	Spurious Radiated Emissions in the restricted band	15.247(d),15.205,15.209	PASS
6	Spurious RF Conducted Emissions	15.247(d)	PASS
7	Radiates Emission	15.247(d),15.205,15.209	NA
8	AC Power Line Conducted Emission	15.207	NA

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2.3. Peak Power Output –Conducted

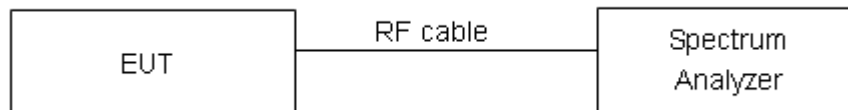
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

During the process of the testing, The EUT was connected to the spectrum analyzer with a known loss. The EUT is max power transmission with proper modulation. The peak detector is used. RBW is set to 2 MHz; VBW is set to 6 MHz. These measurements have been tested at following channels: 0, 19 and 39 of Bluetooth (Low Energy).

Test Setup



Limits

Rule Part 15.247 (b) (3) specifies that " For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt."

Peak Output Power	$\leq 1\text{W}$ (30dBm)
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.44$ dB.

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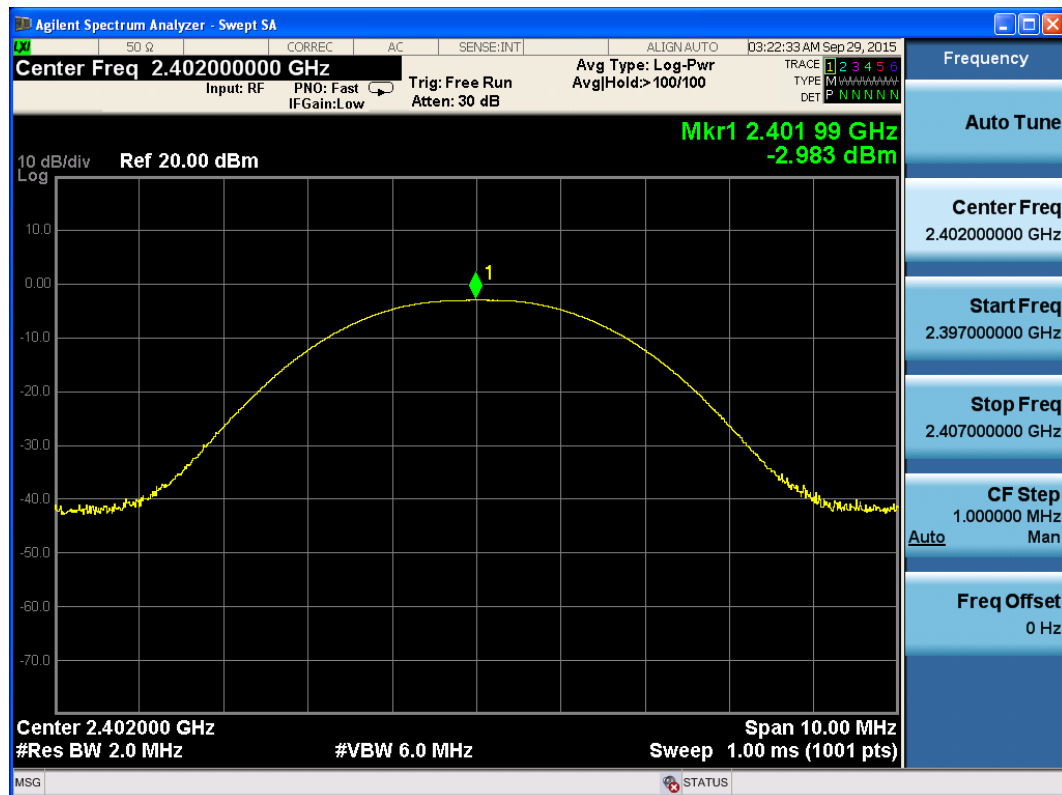
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Test Results

Bluetooth (Low Energy)

Channel	Frequency (MHz)	Peak Output Power (dBm)	Conclusion
		1Mbps	
0	2402	-2.983	PASS
19	2440	-0.837	PASS
39	2480	-2.234	PASS



Carrier frequency (MHz): 2402

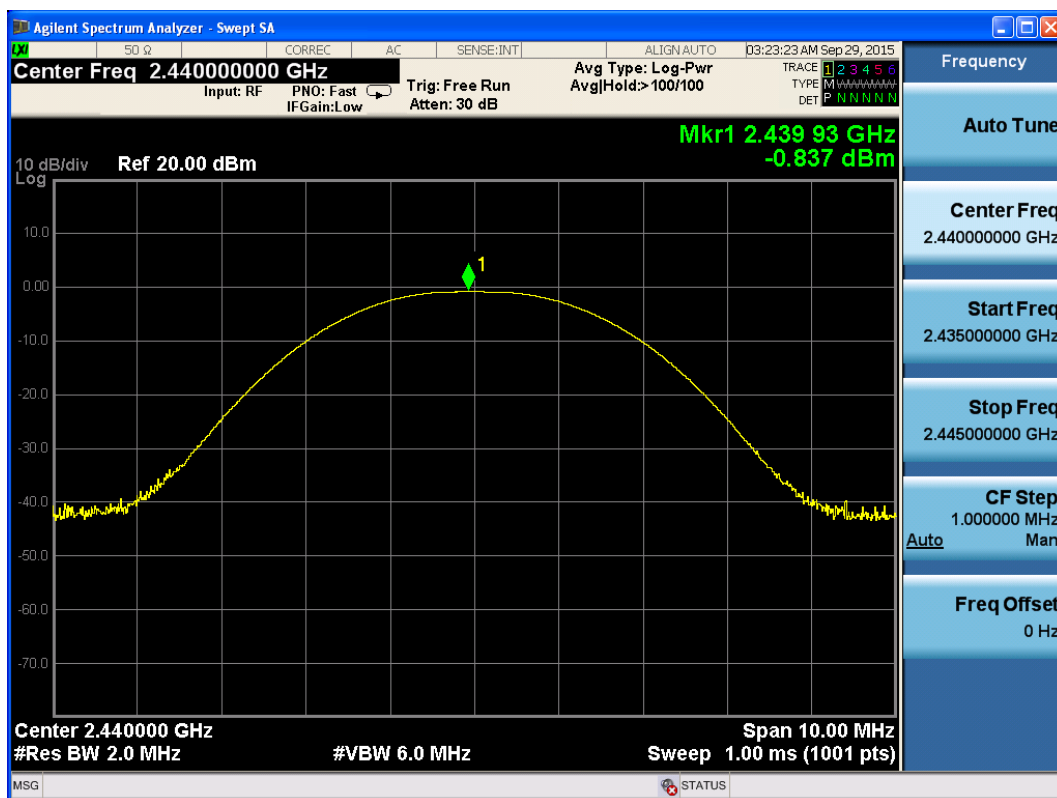
Channel No.:0

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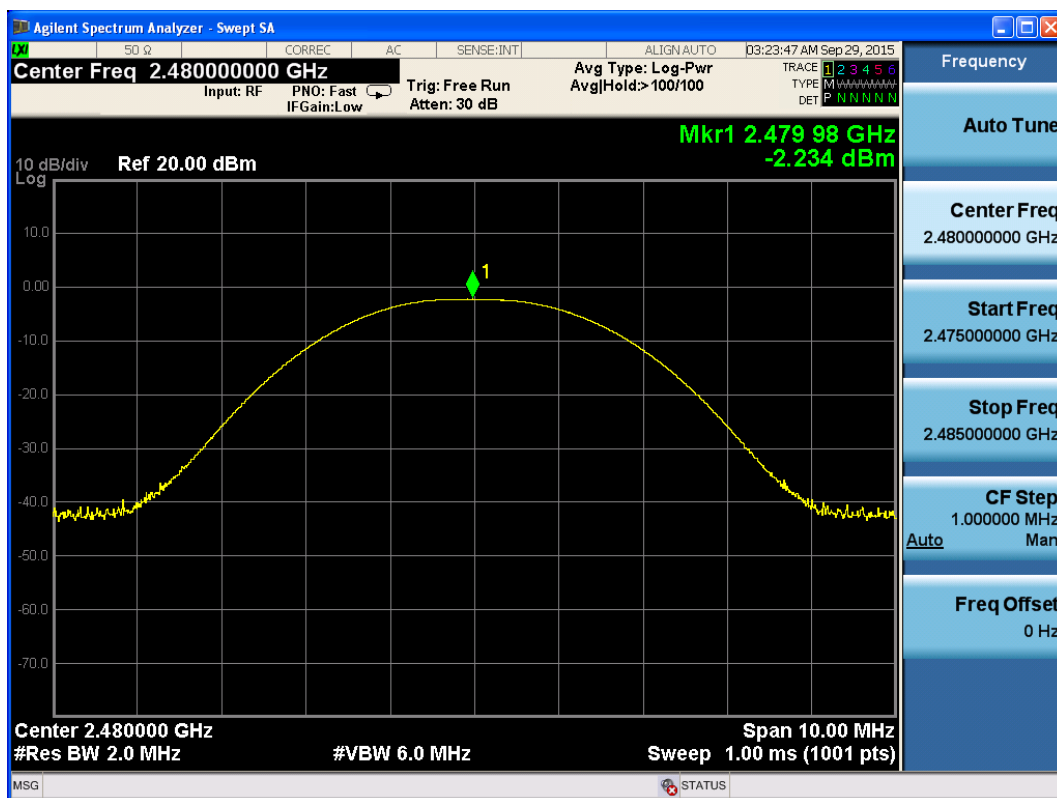
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Carrier frequency (MHz): 2440

Channel No.:19



Carrier frequency (MHz): 2480

Channel No.:39

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2.4. 6dB Occupied Bandwidth

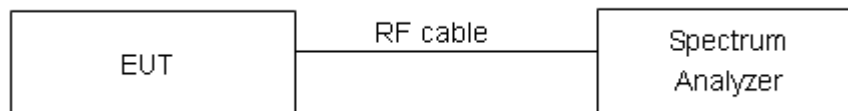
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to the spectrum analyzer with a known loss. The occupied bandwidth is measured using spectrum analyzer. RBW is set to 100 kHz, VBW is set to 300 kHz on spectrum analyzer.

Test Setup



Limits

Rule Part 15.247 (a) (2) specifies that “Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.”

minimum 6 dB bandwidth	≥ 500 kHz
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 936$ Hz.

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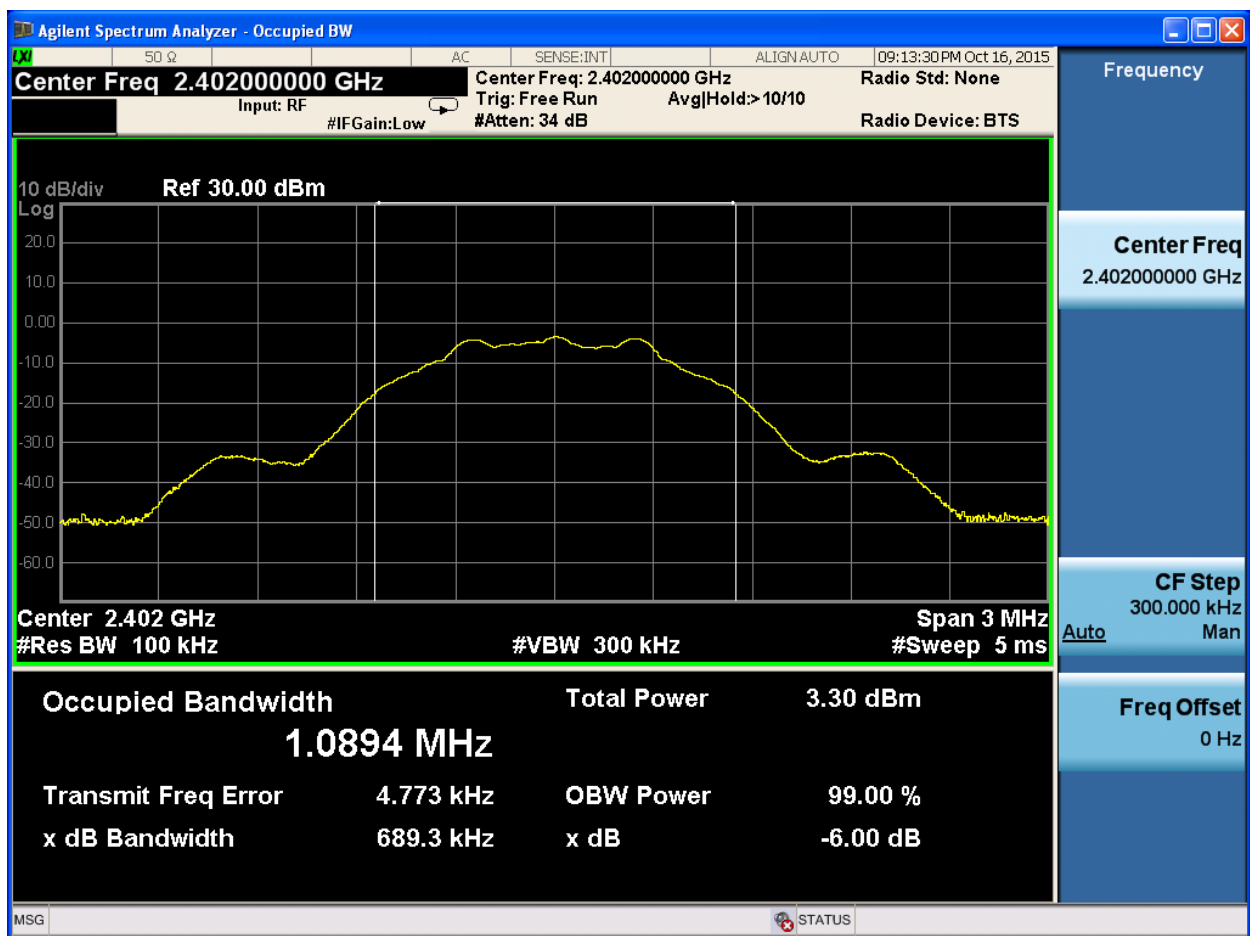
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Test Results:

Bluetooth (Low Energy)

Channel	Frequency (MHz)	6dB Bandwidth (kHz)
0	2402	689.3
19	2440	687.8
39	2480	698.1



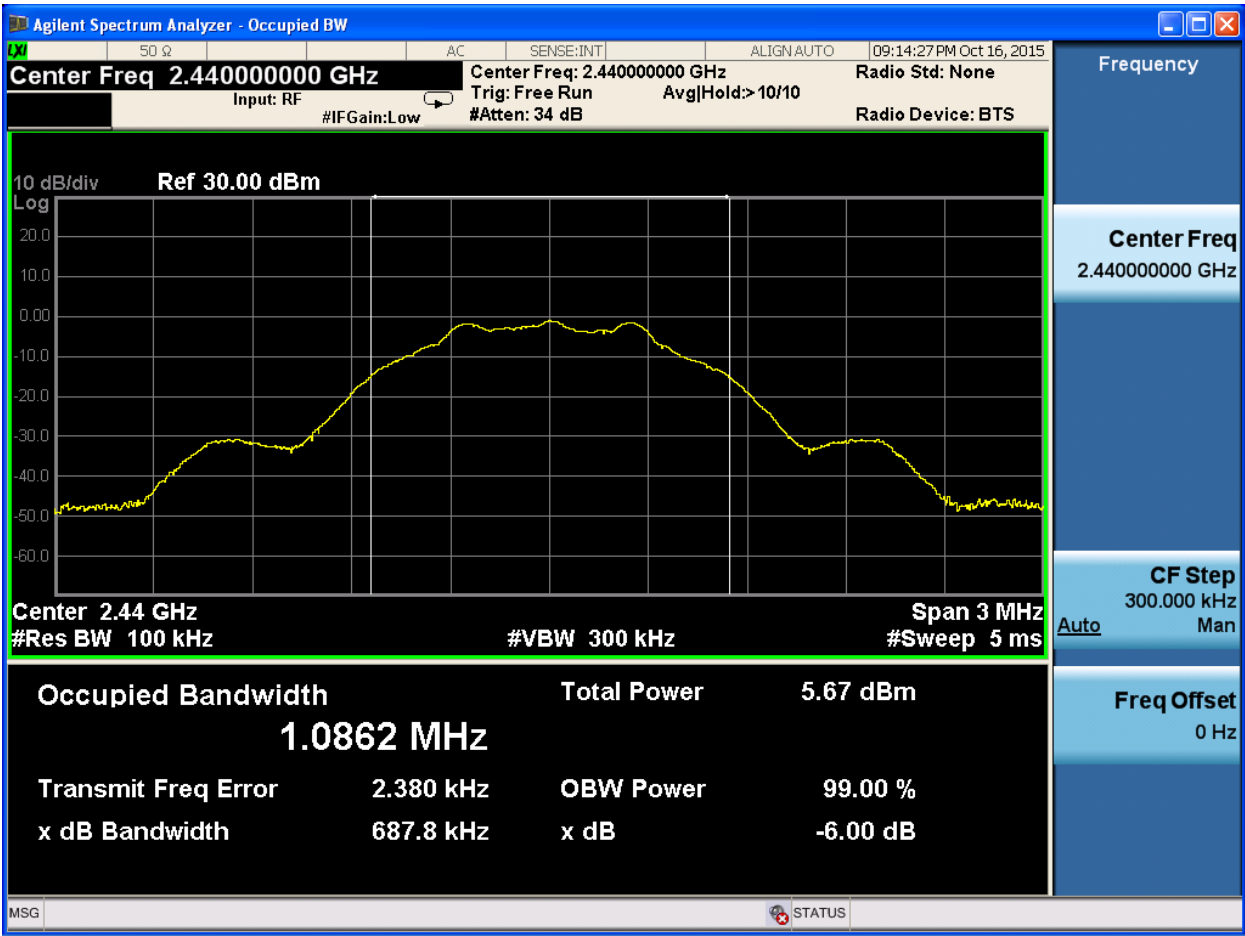
Carrier frequency (MHz): 2402

Channel No.: 0

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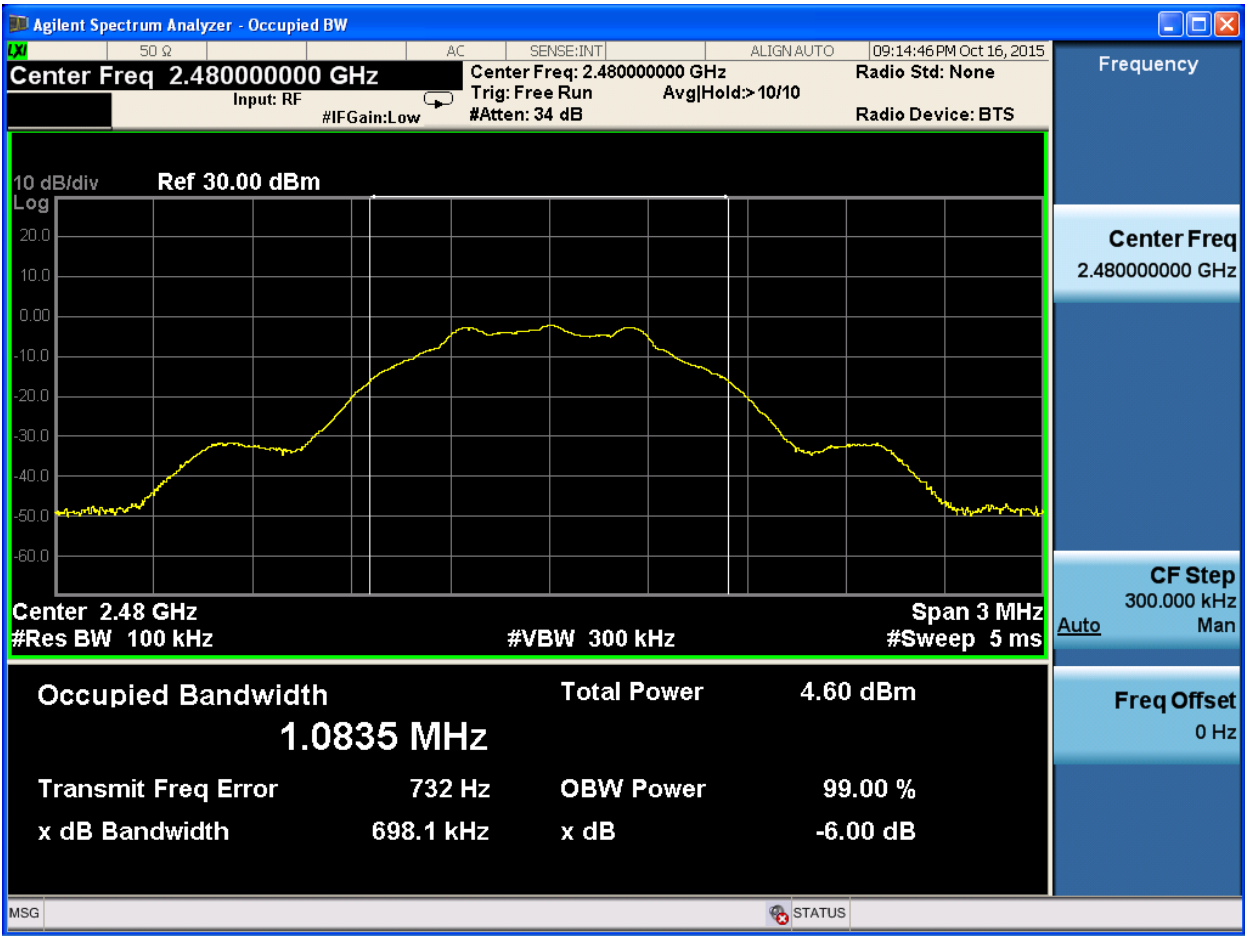


Carrier frequency (MHz): 2440
Channel No.: 19

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Carrier frequency (MHz): 2480
Channel No.:39

2.5. Band Edge Compliance

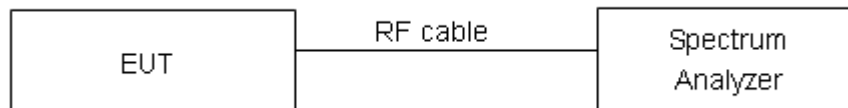
Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to the spectrum analyzer with a known loss. The lowest and highest channels were measured. The peak detector is used. RBW is set to 100 kHz and VBW is set to 300 kHz on spectrum analyzer.

Test Setup



Limits

Rule Part 15.247(d) specifies that “In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.”

Measurement Uncertainty

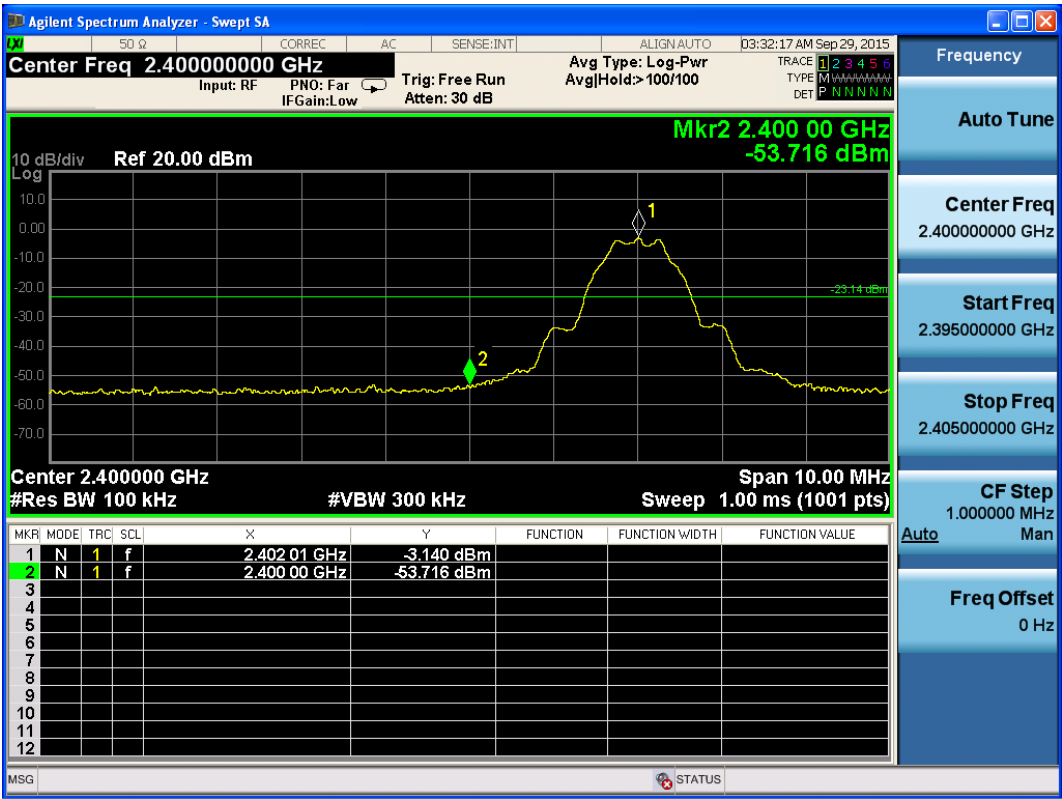
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

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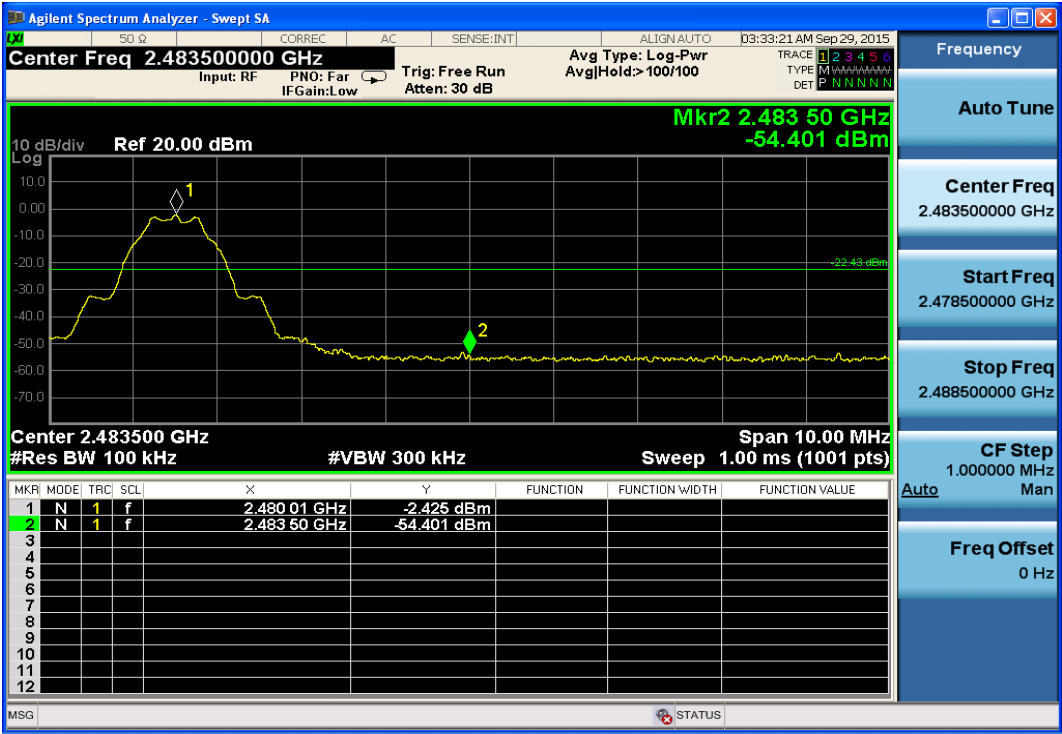
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Test Results: PASS
Low Energy



Carrier frequency (MHz): 2402
Channel No.:0



Carrier frequency (MHz): 2480
Channel No.:39

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2.6. Power Spectral Density

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

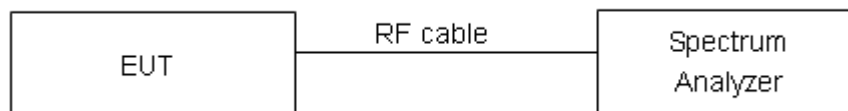
Method of Measurement

The EUT was connected to the spectrum analyzer with a known loss.

RBW is set to 3 kHz and VBW is set to 10 kHz on spectrum analyzer. Set the span to 1.5 times the DTS channel bandwidth. Sweep time = auto couple. Trace mode = max hold.

The peak power spectral density is recorded.

Test setup



Limits

Rule Part 15.247(e) specifies that "For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. "

Limits	$\leq 8 \text{ dBm} / 3\text{kHz}$
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.75\text{dB}$.

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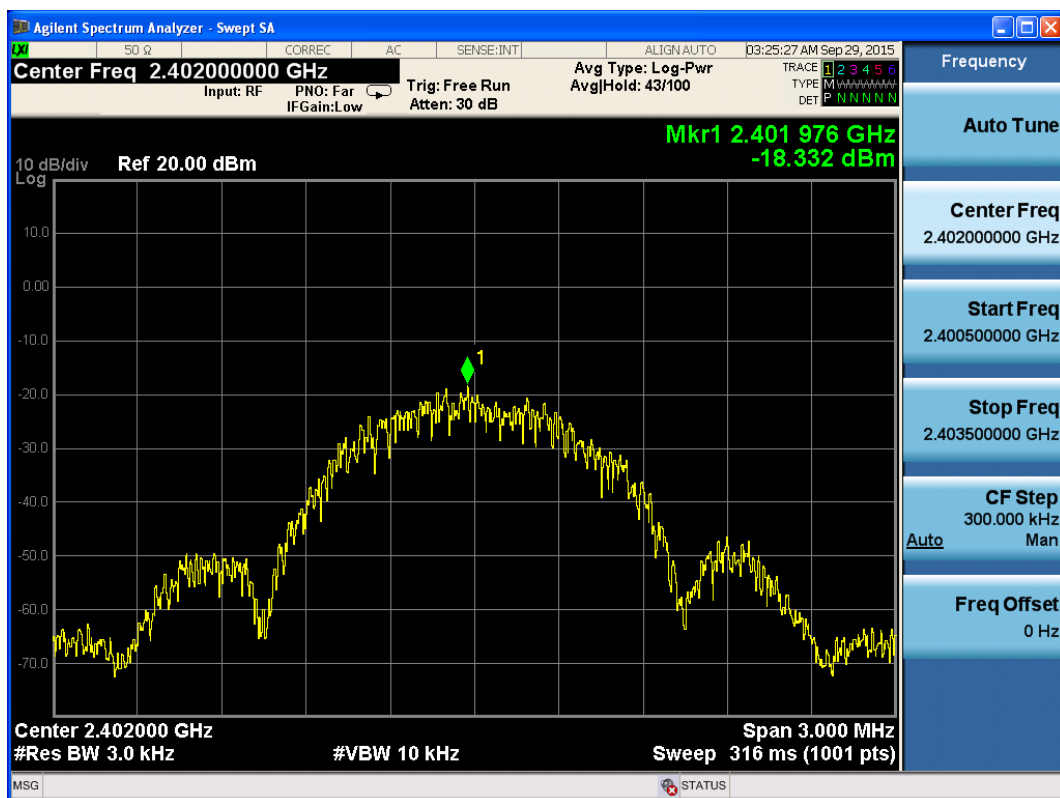
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Test Results:

Bluetooth (Low Energy)

Channel Number	Power Spectral Density dBm / 3kHz	Conclusion
0	-18.332	PASS
19	-16.155	PASS
39	-17.513	PASS



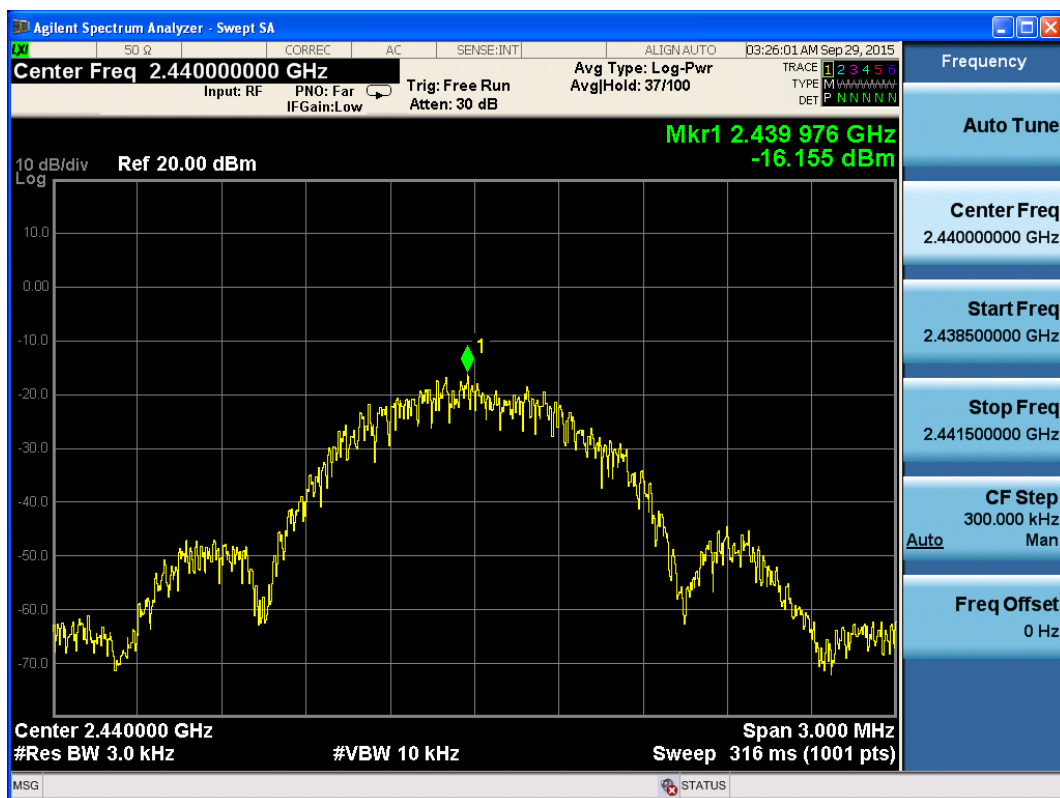
Low energy, Channel No.: 0

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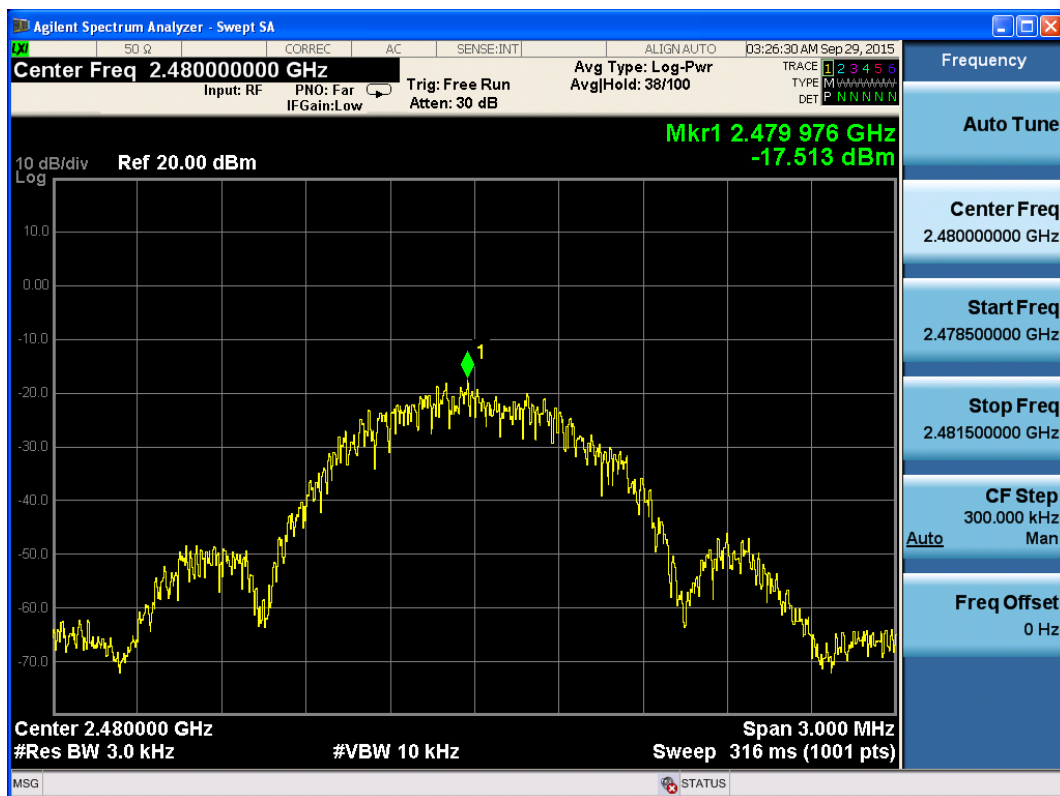
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Low energy, Channel No.: 19



Low energy, Channel No.: 39

2.7. Spurious Radiated Emissions in the Restricted Band

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.

Set the spectrum analyzer in the following:

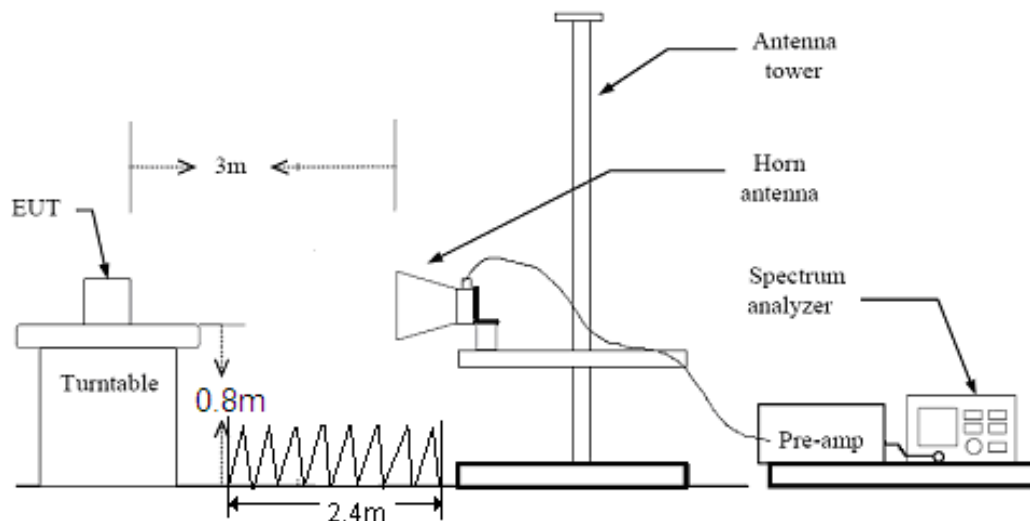
(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b) The dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a “duty cycle correction factor”, derived from $20\log(\text{dwell time}/100 \text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit.

If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak- average correction factor, derived from the appropriate duty cycle calculation.

This setting method can refer to KDB 558074.

Test setup



Note: Area side: 2.4mX3.6m

Limits

Spurious Radiated Emissions are permitted in any of the frequency bands listed below:

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

Limit in restricted band

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above960	500	54

§15.35(b)

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

Peak Limit=74 dBuV/m

Average Limit=54 dBuV/m

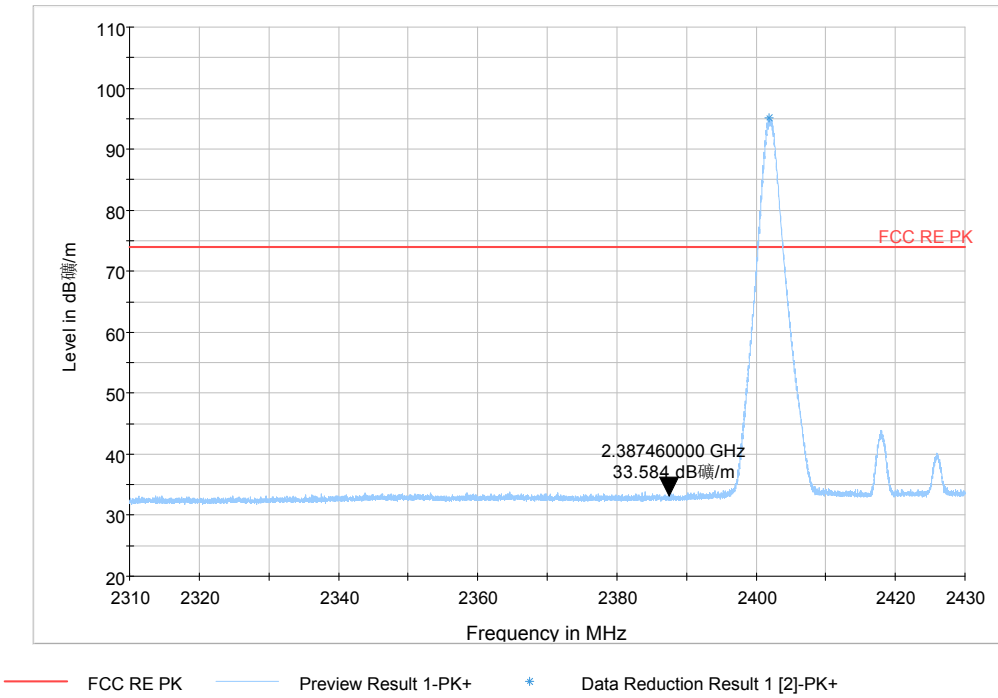
Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 3.55$ dB.

Test Results: PASS

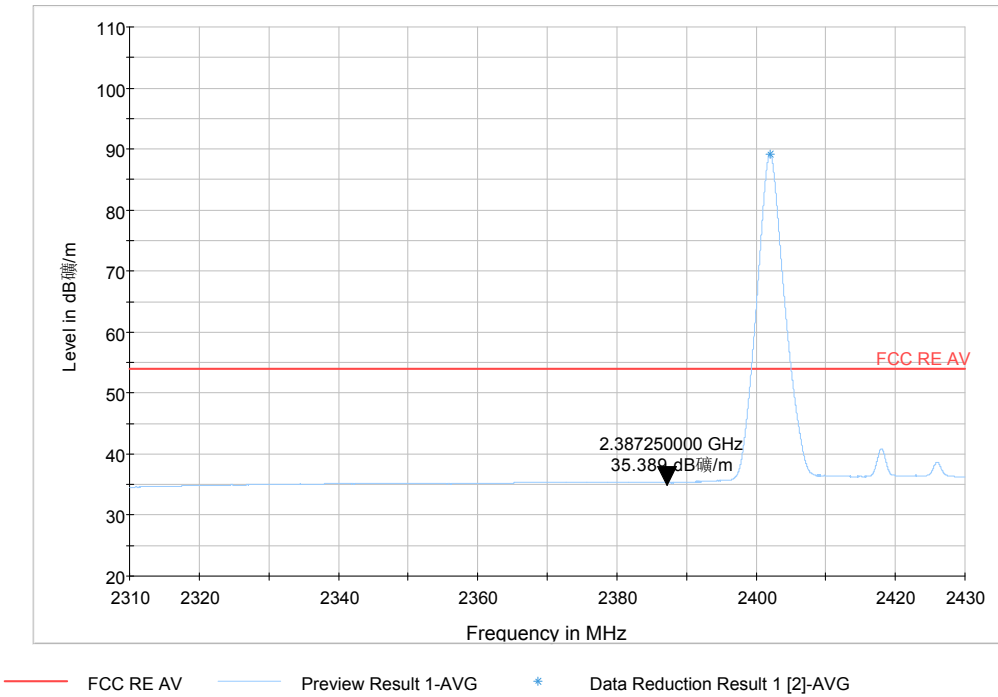
Channel 0

Peak



Note: The signal beyond the limit is carrier, a font (Level in dB μ V/m) in the test plot =(level in dBuV/m)

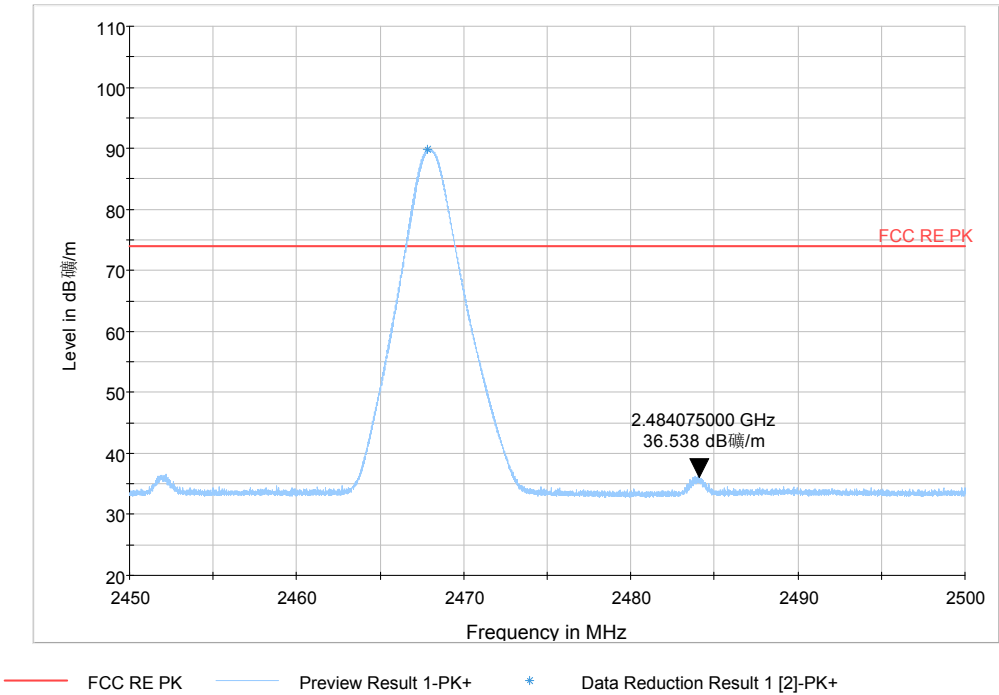
Average



Note: The signal beyond the limit is carrier, a font (Level in dB μ V/m) in the test plot =(level in dBuV/m)

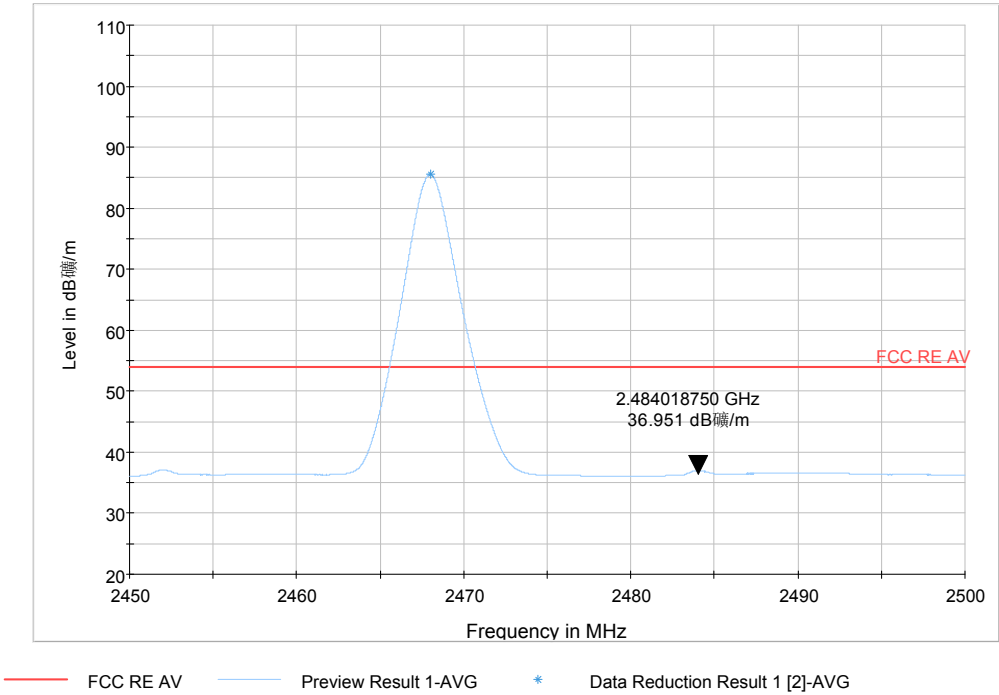
Channel 39

Peak



Note: The signal beyond the limit is carrier, a font (Level in dB μ /m) in the test plot =(level in dBuV/m)

Average



Note: The signal beyond the limit is carrier, a font (Level in dB μ /m) in the test plot =(level in dBuV/m)

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2.8. Spurious RF Conducted Emissions

Ambient condition

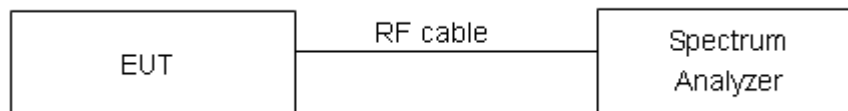
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Method of Measurement

The EUT was connected to the spectrum analyzer with a known loss. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used. RBW and VBW are set to 100 kHz, Sweep is set to ATUO.

The test is in transmitting mode.

Test setup



Limits

Rule Part 15.247(d) pacifies that “In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.”

Mode	Carrier frequency (MHz)	Reference value (dBm)	Limit
Bluetooth(Low Energy)	2402	-2.983	-22.983
	2440	-0.837	-20.837
	2480	-2.234	-22.234

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-26GHz	1.407 dB

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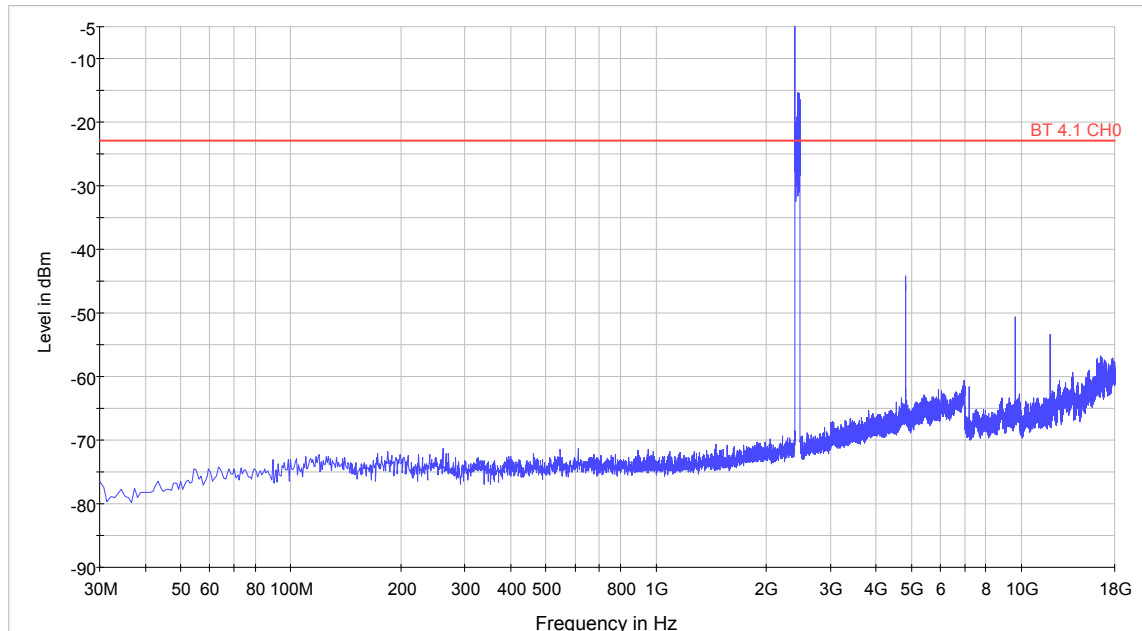
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Test Results:

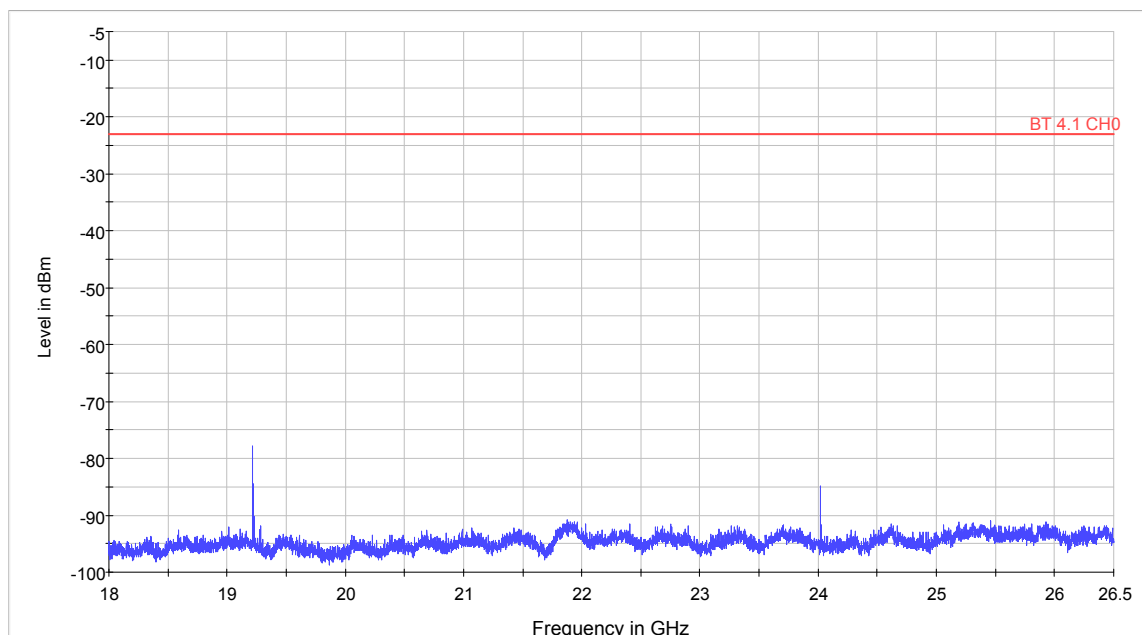
Bluetooth (Low Energy)

CH0:



MaxPeak-MaxHold-PK+ BT 4.1 CH0

Note: The signal beyond the limit is carrier. Carrier frequency (MHz): 2402
Spurious RF conducted emissions from 30MHz to 18GHz



MaxPeak-MaxHold-PK+ BT 4.1 CH0

Spurious RF conducted emissions from 18GHz to 26.5GHz

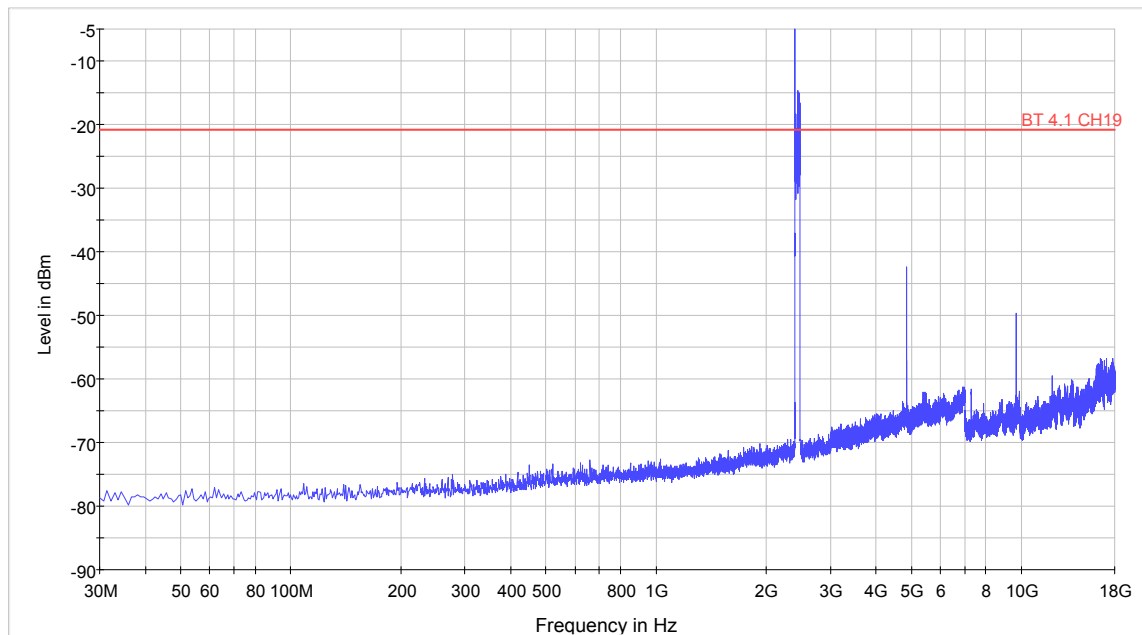
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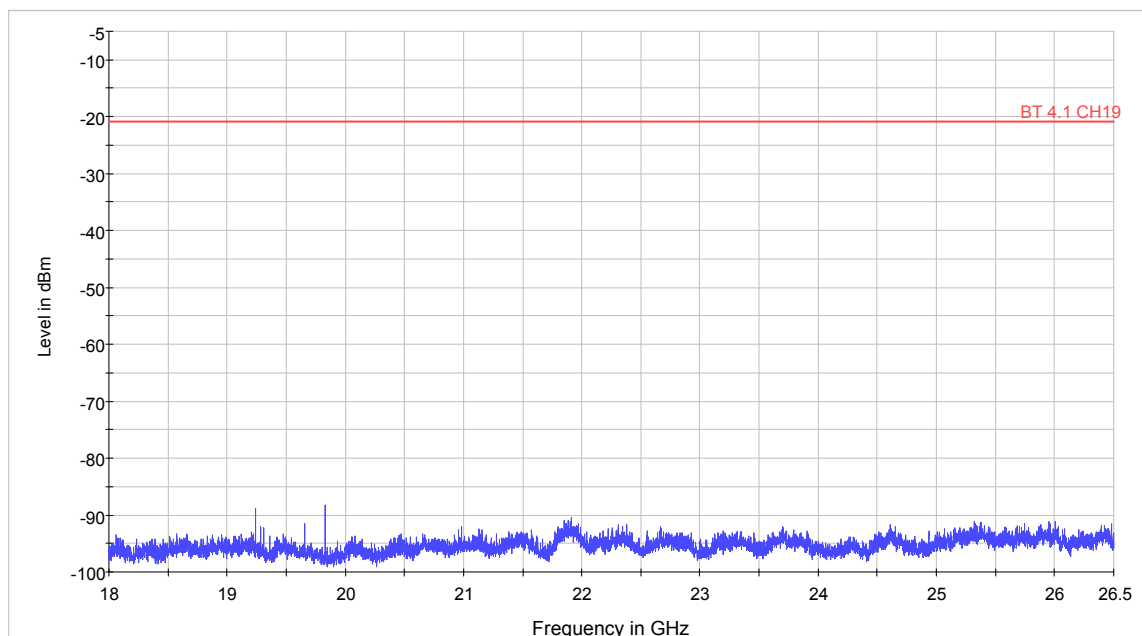
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CH19:



MaxPeak-MaxHold-PK+ BT 4.1 CH19

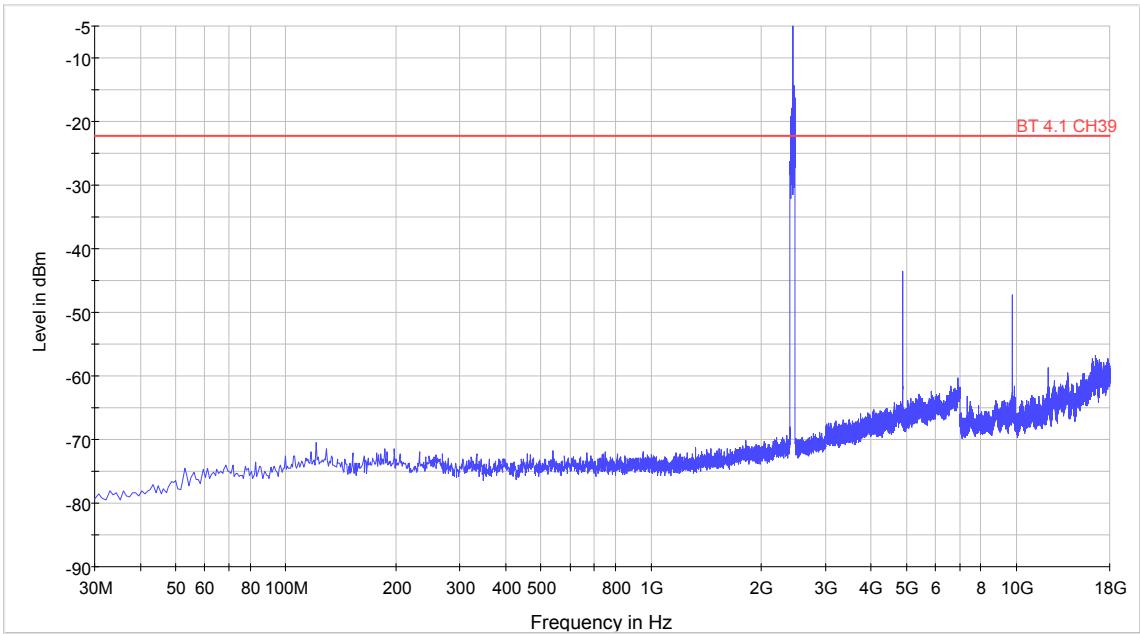
Note: The signal beyond the limit is carrier. Carrier frequency (MHz): 2440
Spurious RF conducted emissions from 30MHz to 18GHz



MaxPeak-MaxHold-PK+ BT 4.1 CH19

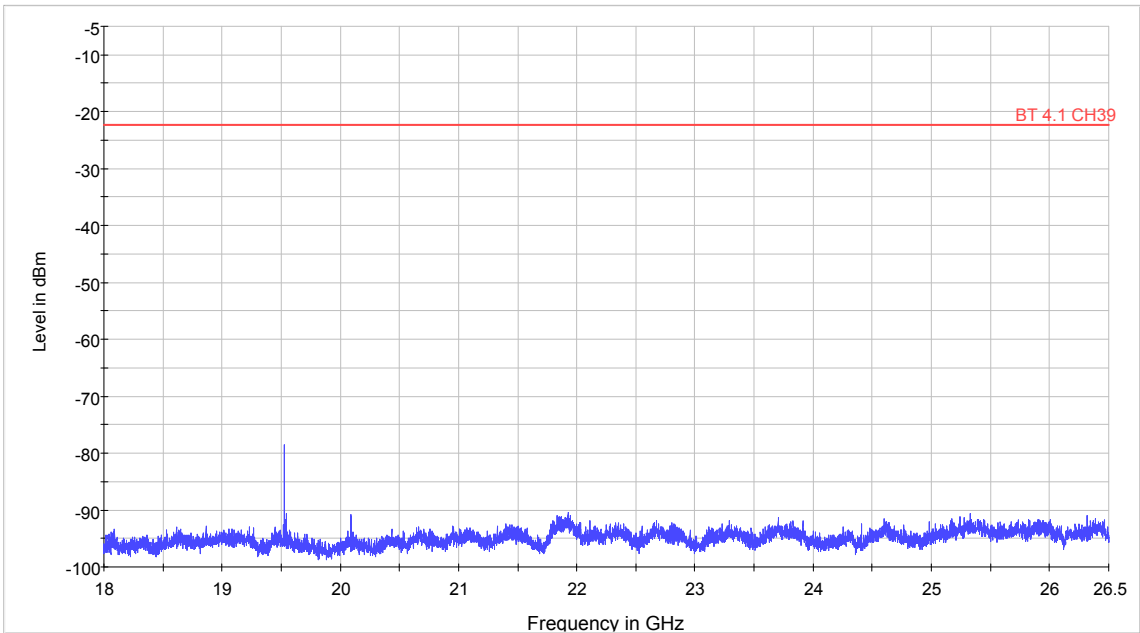
Spurious RF conducted emissions from 18GHz to 26.5GHz

CH39:



MaxPeak-MaxHold-PK+ BT 4.1 CH39

Note: The signal beyond the limit is carrier. Carrier frequency (MHz): 2480
Spurious RF conducted emissions from 30MHz to 18GHz



MaxPeak-MaxHold-PK+ BT 4.1 CH39

Spurious RF conducted emissions from 18GHz to 26.5GHz

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2.9. Radiates Emission

Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	102.5kPa

Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10-2013. The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration.

Sweep the whole frequency band through the range from 9 kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

During the test, below 30MHz, the center of the loop shall be 1 meters; above 30MHz, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.

Set the spectrum analyzer in the following:

Below 1GHz (detector: Peak and Quasi-Peak)

RBW=100 kHz / VBW=300 kHz / Sweep=AUTO

Above 1GHz (detector: Peak):

(a) PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

The test is in transmitting mode.

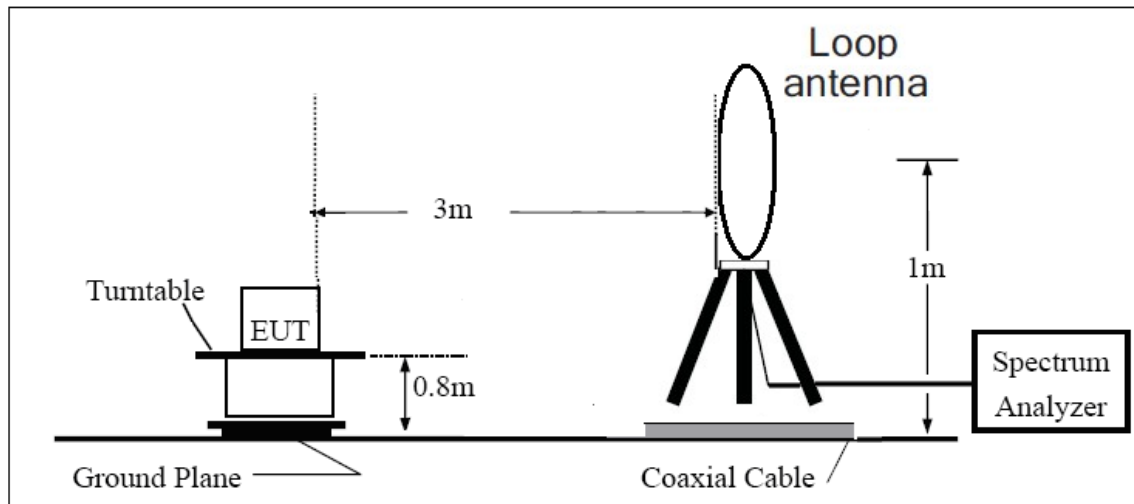
TA Technology (Shanghai) Co., Ltd.
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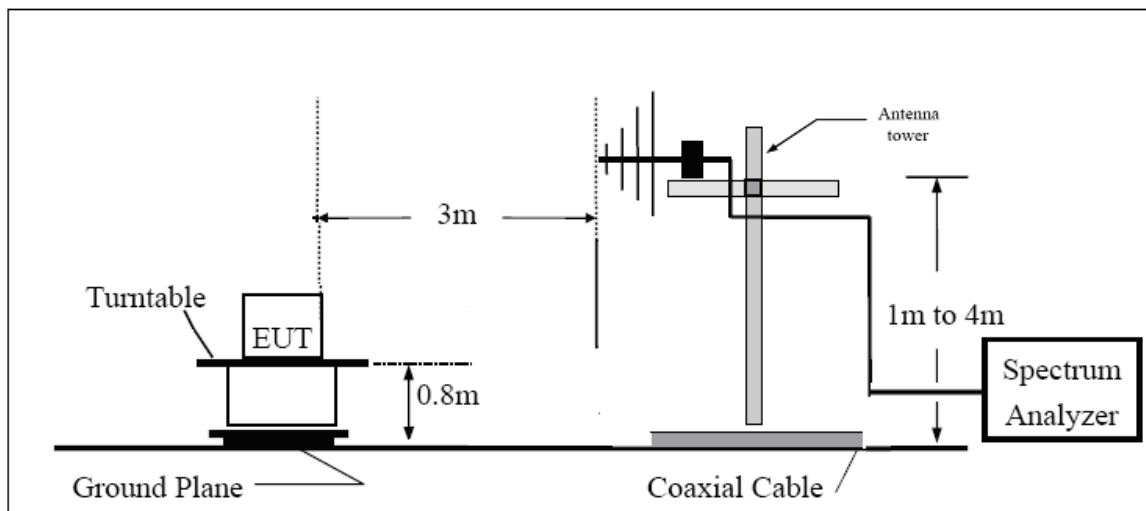
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Test setup

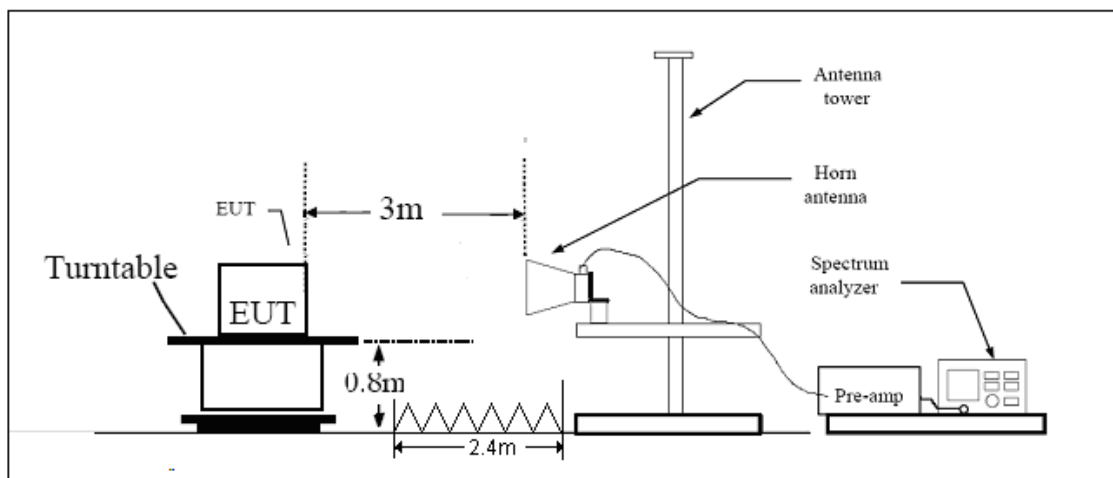
9KHz~~~ 30MHz



30MHz~~~ 1GHz



Above 1GHz



Note: Area side: 2.4mX3.6m

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Limits

Rule Part 15.247(d) specifies that “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) (see § 15.205(c)).”

Limit in restricted band

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
0.009–0.490	2400/F(kHz)	/
0.490–1.705	24000/F(kHz)	/
1.705–30.0	30	/
30-88	100	40
88-216	150	43.5
216-960	200	46
Above960	500	54

§15.35(b)

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
9KHz-30MHz	3.55 dB
30MHz-200MHz	4.19 dB
200MHz-1GHz	3.63 dB
Above 1GHz	3.68 dB

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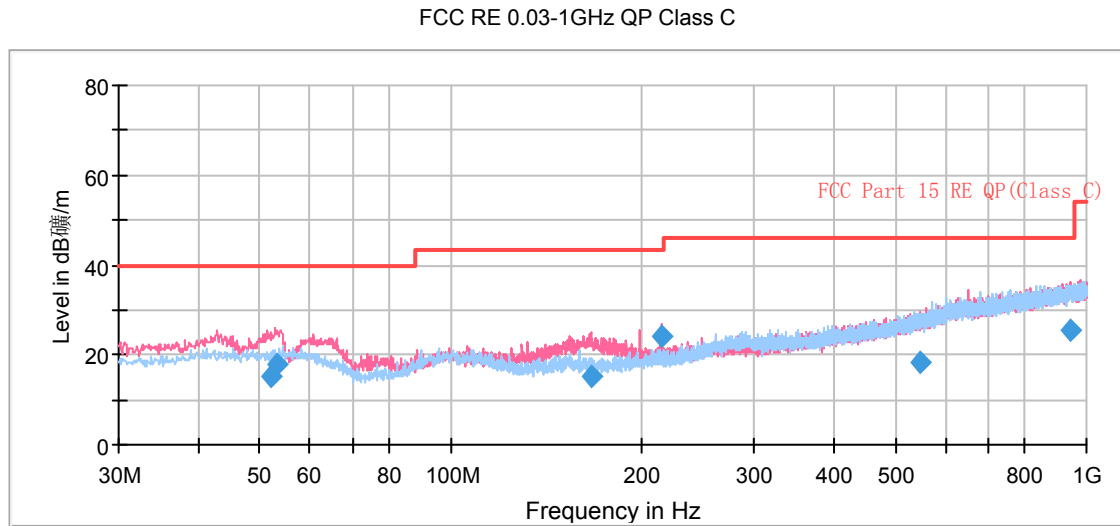
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Test result

Sweep from 9 kHz to 30MHz, and the emissions more than 20 dB below the permissible value are not reported.

Low Energy-Channel 0



Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font (Level in dBμV/m) in the test plot =(level in dBμV/m)

Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
52.235000	15.3	111.0	V	22.0	2.4	12.9	24.7	40.0
53.326250	17.7	100.0	V	0.0	4.9	12.8	22.3	40.0
165.961250	15.4	100.0	V	22.0	5.4	10.0	28.1	43.5
214.502500	24.4	100.0	V	338.0	11.8	12.6	19.1	43.5
545.560000	18.4	100.0	V	176.0	-2.5	20.9	27.6	46.0
944.143750	25.4	118.0	V	211.0	-0.7	26.1	20.6	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

3. Margin = Limit – Quasi-Peak

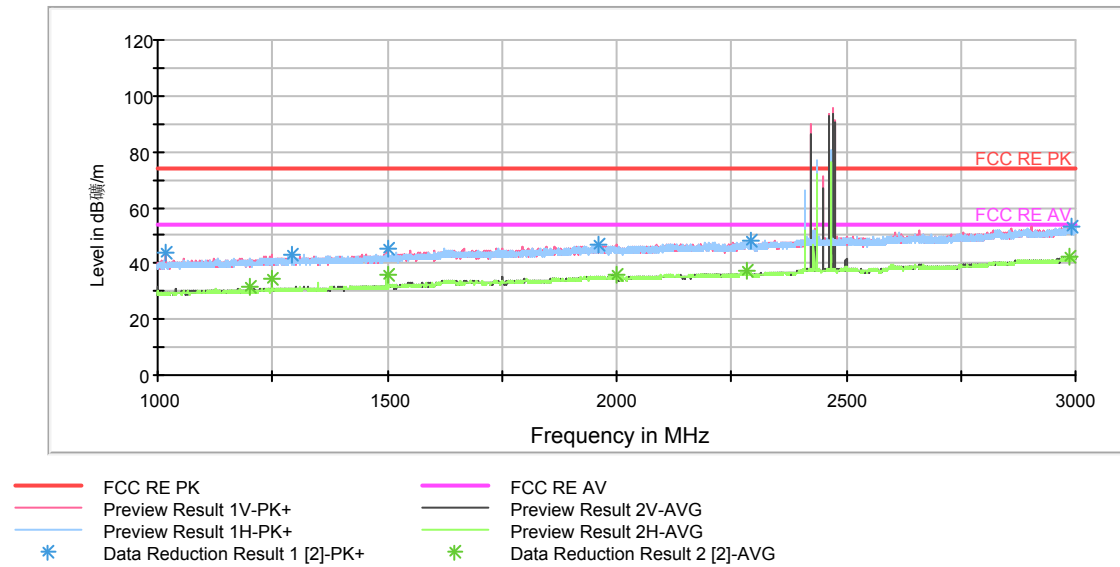
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RE 1G-3GHz PK+AV



Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font (Level in dBuV/m) in the test plot =(level in dBuV/m)

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1199.500000	39.9	100.0	V	177.0	31.7	-8.2	34.1	74
1250.000000	41.9	100.0	V	260.0	33.9	-8.0	32.1	74
1500.000000	45.1	100.0	V	177.0	38.4	-6.7	28.9	74
2000.250000	45.9	100.0	V	243.0	42.5	-3.4	28.1	74
2284.750000	46.9	100.0	H	12.0	45.4	-1.5	27.1	74
2984.750000	52.9	100.0	H	135.0	50.7	-2.2	21.1	74

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1199.500000	31.5	100.0	V	177.0	23.3	-8.2	22.5	54
1250.000000	34.2	100.0	V	260.0	26.2	-8.0	19.8	54
1500.000000	36.2	100.0	V	177.0	29.5	-6.7	17.8	54
2000.250000	35.7	100.0	V	243.0	32.3	-3.4	18.3	54
2284.750000	37.2	100.0	H	12.0	35.7	-1.5	16.8	54
2984.750000	42.4	100.0	H	135.0	40.2	-2.2	11.6	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

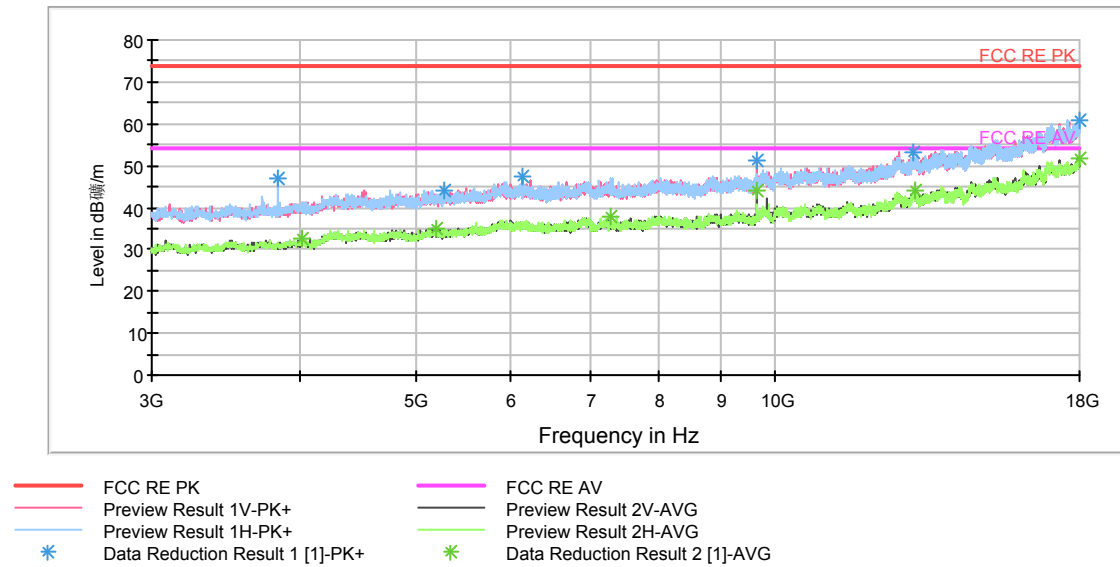
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RE 3-18GHz PK+AV



Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font (Level in dB μ V/m) in the test plot =(level in dBuV/m)

Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4016.250000	38.8	100.0	H	21.0	38.3	0.5	35.2	74
5197.500000	41.4	100.0	V	0.0	37.8	3.6	32.6	74
7273.125000	44.1	100.0	H	330.0	35.4	8.7	29.9	74
9648.750000	51.3	100.0	V	15.0	40.8	10.5	22.7	74
13113.750000	50.4	100.0	V	160.0	34.4	16.0	23.6	74
17994.375000	58.7	100.0	V	306.0	33.4	25.3	15.3	74

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
4016.250000	32.7	100.0	H	21.0	32.2	0.5	21.3	54
5197.500000	35.1	100.0	V	0.0	31.5	3.6	18.9	54
7273.125000	37.7	100.0	H	330.0	29.0	8.7	16.3	54
9648.750000	44.3	100.0	V	15.0	33.8	10.5	9.7	54
13113.750000	43.9	100.0	V	160.0	27.9	16.0	10.1	54
17994.375000	51.8	100.0	V	306.0	26.5	25.3	2.2	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

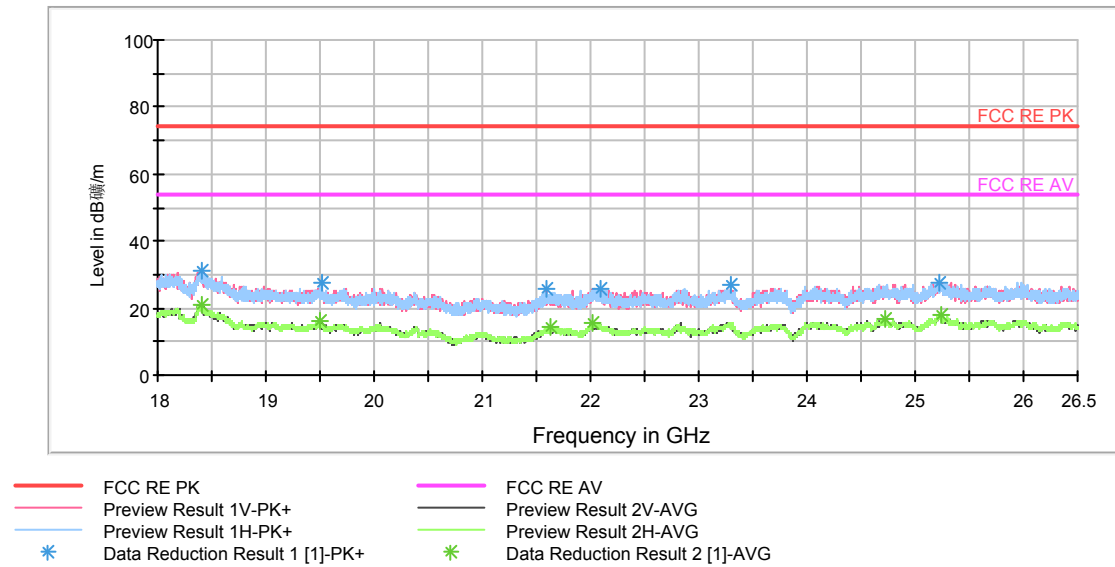
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RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font (Level in dBμV/m) in the test plot =(level in dBuV/m)

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18398.437500	30.9	H	0.0	26.0	-4.9	43.1	74
19501.312500	24.6	H	0.0	17.1	-7.5	49.4	74
21636.937500	22.4	H	0.0	13.3	-9.1	51.6	74
22019.437500	25.2	H	0.0	17.2	-8.0	48.8	74
24730.937500	24.7	H	0.0	18.5	-6.2	49.3	74
25235.625000	27.0	V	0.0	21.0	-6.0	47.0	74

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18398.437500	20.8	H	0.0	15.9	-4.9	33.2	54
19501.312500	16.1	H	0.0	8.6	-7.5	37.9	54
21636.937500	14.6	H	0.0	5.5	-9.1	39.4	54
22019.437500	15.7	H	0.0	7.7	-8.0	38.3	54
24730.937500	16.5	H	0.0	10.3	-6.2	37.5	54
25235.625000	18.0	V	0.0	12.0	-6.0	36.0	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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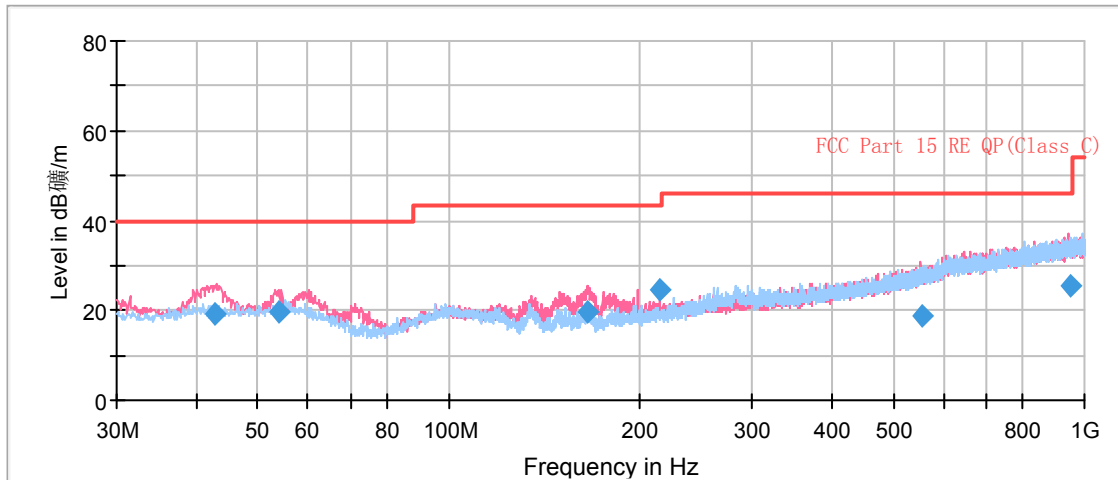
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Middle Energy-Channel 19

FCC RE 0.03-1GHz QP Class C



Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font (Level in dBμV/m) in the test plot =(level in dBuV/m)

Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
42.933750	19.1	100.0	V	57.0	6.0	-13.1	20.9	40.0
53.972500	19.4	100.0	V	22.0	6.6	-12.8	20.6	40.0
164.995000	19.7	111.0	V	0.0	9.7	-10.0	23.8	43.5
214.501250	24.5	100.0	V	22.0	11.9	-12.6	19.0	43.5
553.715000	18.9	113.0	V	228.0	-2.3	-21.2	27.1	46.0
947.010000	25.3	125.0	V	102.0	-0.7	-26.0	20.7	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

2. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

3. Margin = Limit – Quasi-Peak

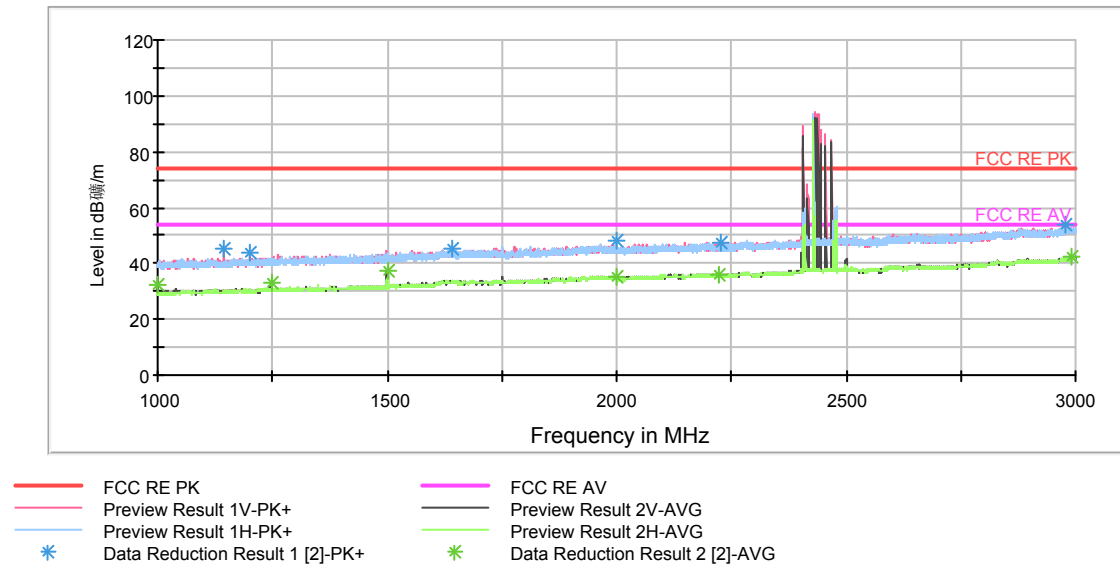
TA Technology (Shanghai) Co., Ltd.

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RE 1G-3GHz PK+AV



Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font (Level in dBuV/m) in the test plot =(level in dBuV/m)

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1000.000000	40.2	100.0	V	175.0	31.0	-9.2	33.8	74
1249.750000	41.7	100.0	V	269.0	33.7	-8.0	32.3	74
1500.000000	44.2	100.0	V	163.0	37.5	-6.7	29.8	74
1999.250000	45.1	100.0	H	287.0	41.7	-3.4	28.9	74
2221.000000	46.8	100.0	H	340.0	44.4	-2.4	27.2	74
2991.500000	51.7	100.0	H	209.0	49.5	-2.2	22.3	74

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1000.000000	32.2	100.0	V	175.0	23.0	-9.2	21.8	54
1249.750000	33.4	100.0	V	269.0	25.4	-8.0	20.6	54
1500.000000	37.4	100.0	V	163.0	30.7	-6.7	16.6	54
1999.250000	35.5	100.0	H	287.0	32.1	-3.4	18.5	54
2221.000000	36.2	100.0	H	340.0	33.8	-2.4	17.8	54
2991.500000	42.3	100.0	H	209.0	40.1	-2.2	11.7	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

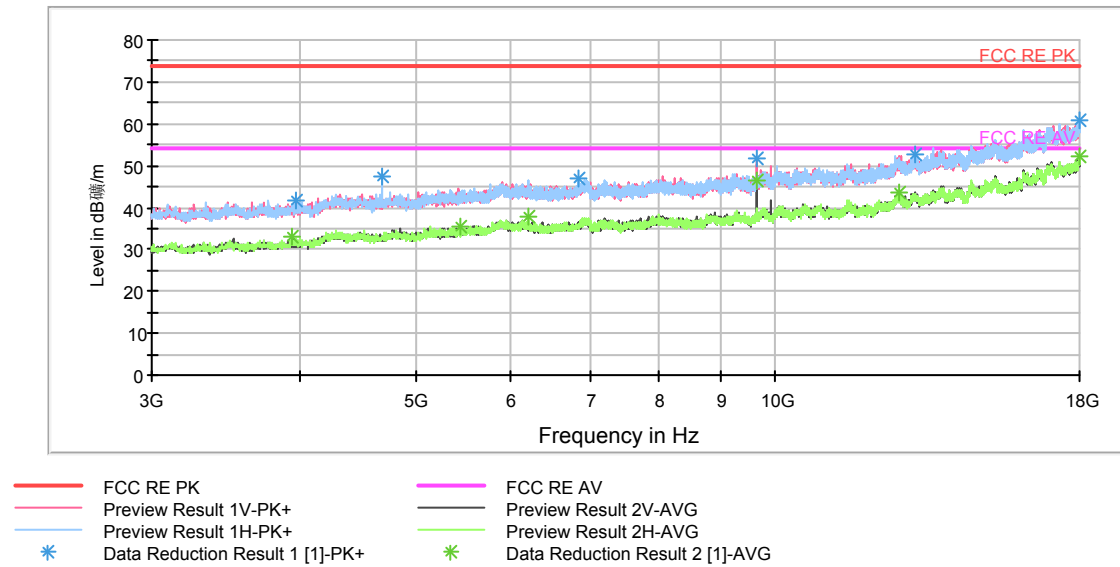
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RE 3-18GHz PK+AV



Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font (Level in dBμV/m) in the test plot =(level in dBuV/m)

Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3928.125000	39.4	100.0	V	0.0	39.4	-0.0	34.6	74
5443.125000	42.7	100.0	V	111.0	38.9	-3.8	31.3	74
6202.500000	43.1	100.0	H	0.0	37.1	-6.0	30.9	74
9663.750000	50.1	100.0	V	23.0	39.5	-10.6	23.9	74
12703.125000	50.3	100.0	V	191.0	35.2	-15.1	23.7	74
17992.500000	59.1	100.0	H	259.0	33.8	-25.3	14.9	74

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3928.125000	33.0	100.0	V	0.0	33.0	-0.0	21.0	54
5443.125000	35.6	100.0	V	111.0	31.8	-3.8	18.4	54
6202.500000	37.7	100.0	H	0.0	31.7	-6.0	16.3	54
9663.750000	46.6	100.0	V	23.0	36.0	-10.6	7.4	54
12703.125000	43.6	100.0	V	191.0	28.5	-15.1	10.4	54
17992.500000	52.3	100.0	H	259.0	27.0	-25.3	1.7	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

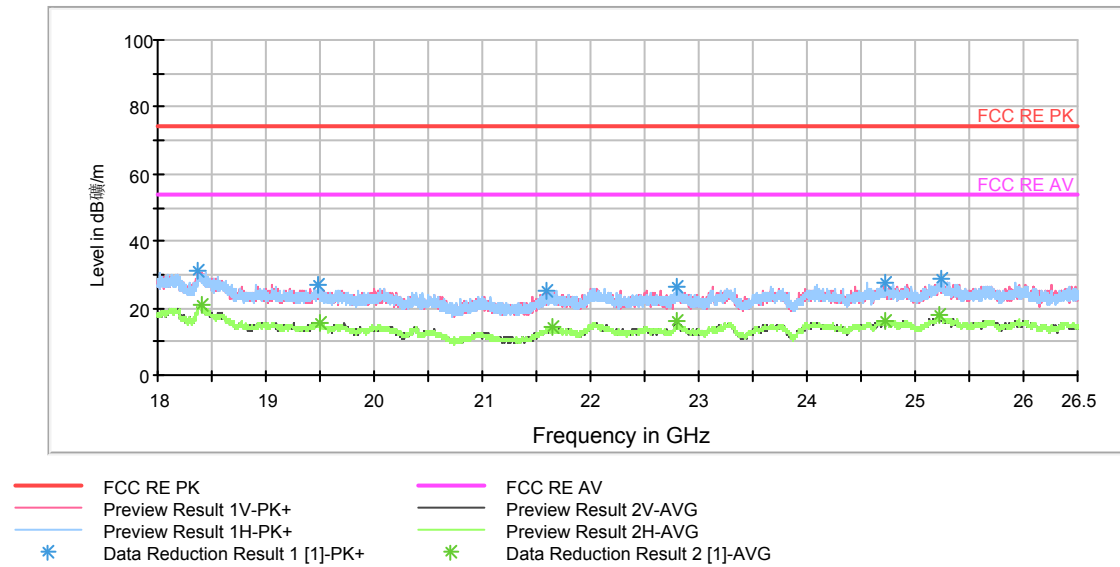
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RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font (Level in dBuV/m) in the test plot =(level in dBuV/m)

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18399.500000	30.2	H	0.0	25.3	-4.9	43.8	74
19502.375000	23.5	V	0.0	16.0	-7.5	50.5	74
21640.125000	22.5	V	0.0	13.4	-9.1	51.5	74
22802.500000	23.3	V	0.0	15.9	-7.4	50.7	74
24727.750000	26.3	V	0.0	20.1	-6.2	47.7	74
25230.312500	27.6	H	0.0	21.7	-5.9	46.4	74

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18399.500000	20.8	H	0.0	15.9	-4.9	33.2	54
19502.375000	15.6	V	0.0	8.1	-7.5	38.4	54
21640.125000	14.5	V	0.0	5.4	-9.1	39.5	54
22802.500000	16.1	V	0.0	8.7	-7.4	37.9	54
24727.750000	16.5	V	0.0	10.3	-6.2	37.5	54
25230.312500	17.9	H	0.0	12.0	-5.9	36.1	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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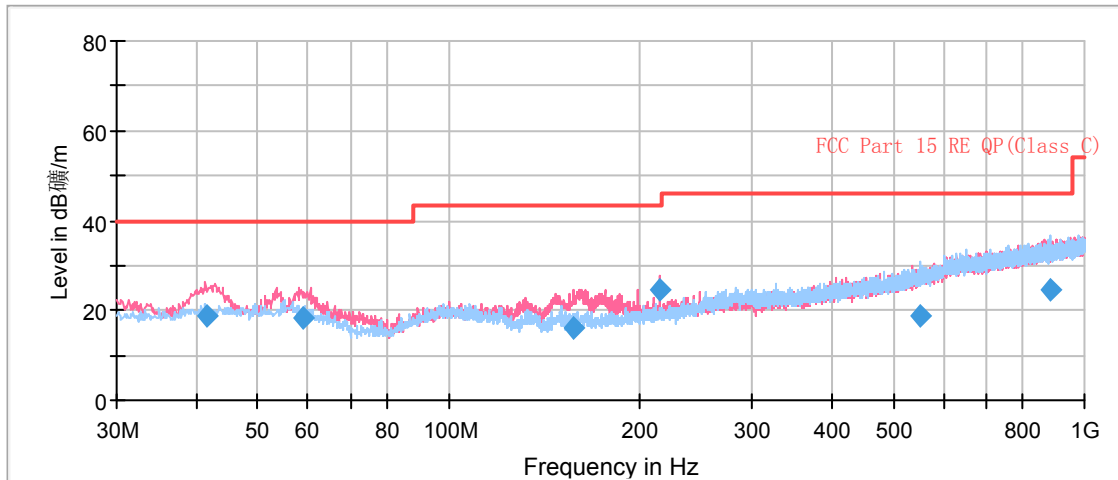
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High Energy-Channel 39

FCC RE 0.03-1GHz QP Class C



Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font (Level in dBuV/m) in the test plot =(level in dBuV/m)

Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
41.477500	19.0	100.0	V	37.0	5.8	-13.2	21.0	40.0
58.730000	18.4	100.0	V	23.0	5.9	-12.5	21.6	40.0
156.588750	16.2	118.0	V	215.0	6.7	-9.5	27.3	43.5
214.502500	24.6	100.0	V	37.0	12.0	-12.6	18.9	43.5
551.620000	18.7	125.0	H	81.0	-2.3	-21.0	27.3	46.0
884.038750	24.6	100.0	H	170.0	-0.8	-25.4	21.4	46.0

Remark: 1. Quasi-Peak = Reading value + Correction factor

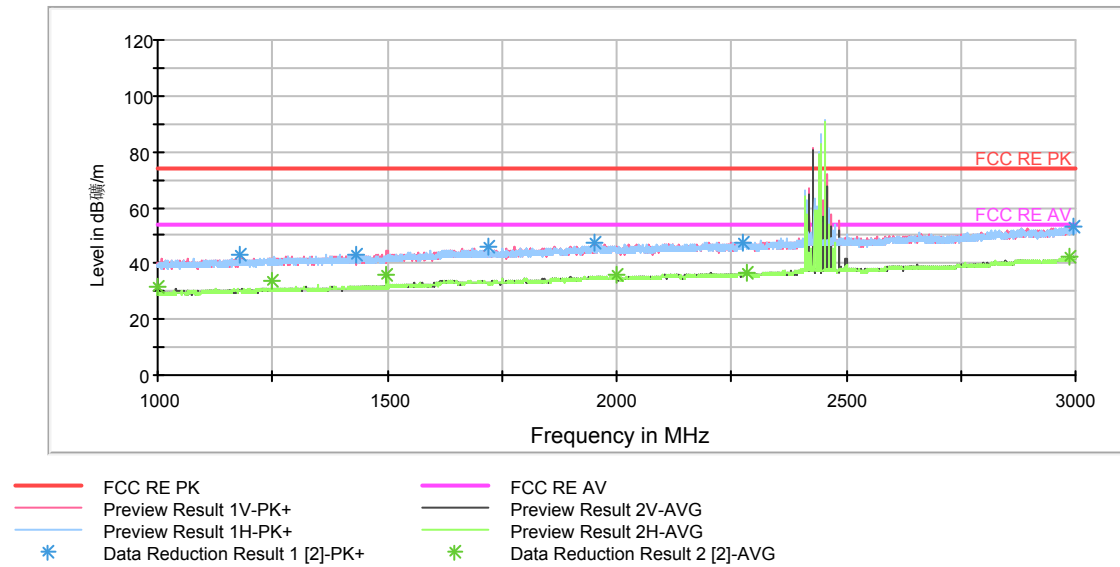
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RE 1G-3GHz PK+AV



Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font (Level in dBuV/m) in the test plot =(level in dBuV/m)

Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1000.000000	40.3	100.0	V	193.0	31.1	-9.2	33.7	74
1249.750000	41.8	100.0	V	251.0	33.8	-8.0	32.2	74
1499.750000	44.3	100.0	V	163.0	37.6	-6.7	29.7	74
1999.750000	45.8	100.0	V	0.0	42.4	-3.4	28.2	74
2285.250000	46.0	100.0	V	268.0	44.5	-1.5	28.0	74
2989.000000	51.7	100.0	H	180.0	49.5	-2.2	22.3	74

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
1000.000000	31.6	100.0	V	193.0	22.4	-9.2	22.4	54
1249.750000	34.1	100.0	V	251.0	26.1	-8.0	19.9	54
1499.750000	36.1	100.0	V	163.0	29.4	-6.7	17.9	54
1999.750000	35.8	100.0	V	0.0	32.4	-3.4	18.2	54
2285.250000	37.0	100.0	V	268.0	35.5	-1.5	17.0	54
2989.000000	42.1	100.0	H	180.0	39.9	-2.2	11.9	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

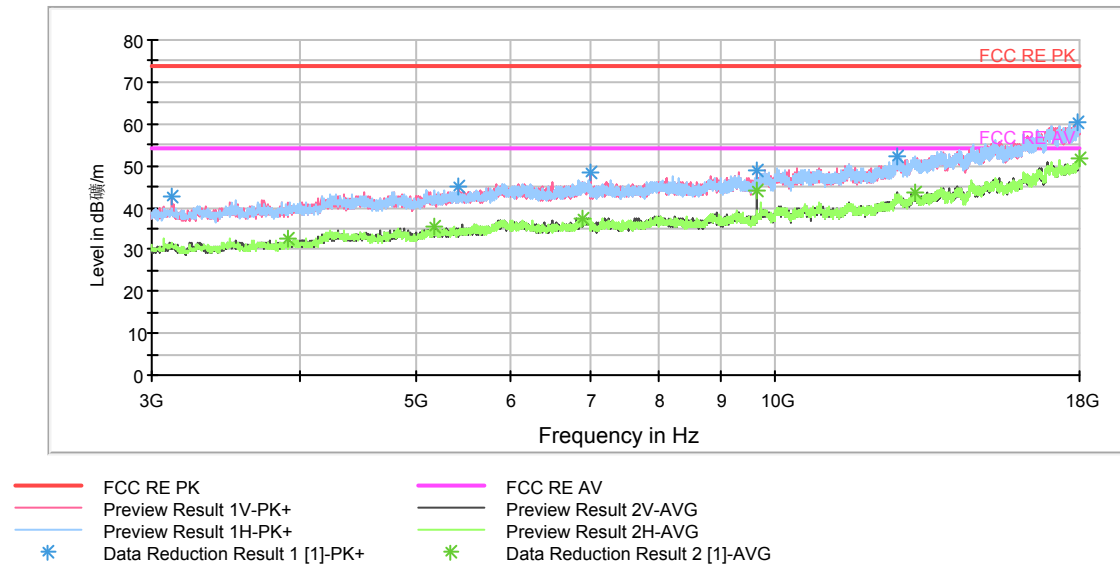
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RE 3-18GHz PK+AV



Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font (Level in dBμV/m) in the test plot =(level in dBuV/m)

Radiates Emission from 3GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3900.000000	39.9	100.0	H	303.0	39.7	-0.2	34.1	74
5178.750000	42.4	100.0	V	345.0	38.8	3.6	31.6	74
6885.000000	44.1	100.0	H	112.0	37.2	6.9	29.9	74
9648.750000	48.8	100.0	V	18.0	38.3	10.5	25.2	74
13087.500000	51.8	100.0	H	179.0	35.6	16.2	22.2	74
17992.500000	58.8	100.0	H	112.0	33.5	25.3	15.2	74

Frequency (MHz)	Average (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
3900.000000	32.8	100.0	H	303.0	32.6	-0.2	21.2	54
5178.750000	35.6	100.0	V	345.0	32.0	-3.6	18.4	54
6885.000000	37.6	100.0	H	112.0	30.7	-6.9	16.4	54
9648.750000	44.2	100.0	V	18.0	33.7	-10.5	9.8	54
13087.500000	43.6	100.0	H	179.0	27.4	-16.2	10.4	54
17992.500000	51.8	100.0	H	112.0	26.5	-25.3	2.2	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

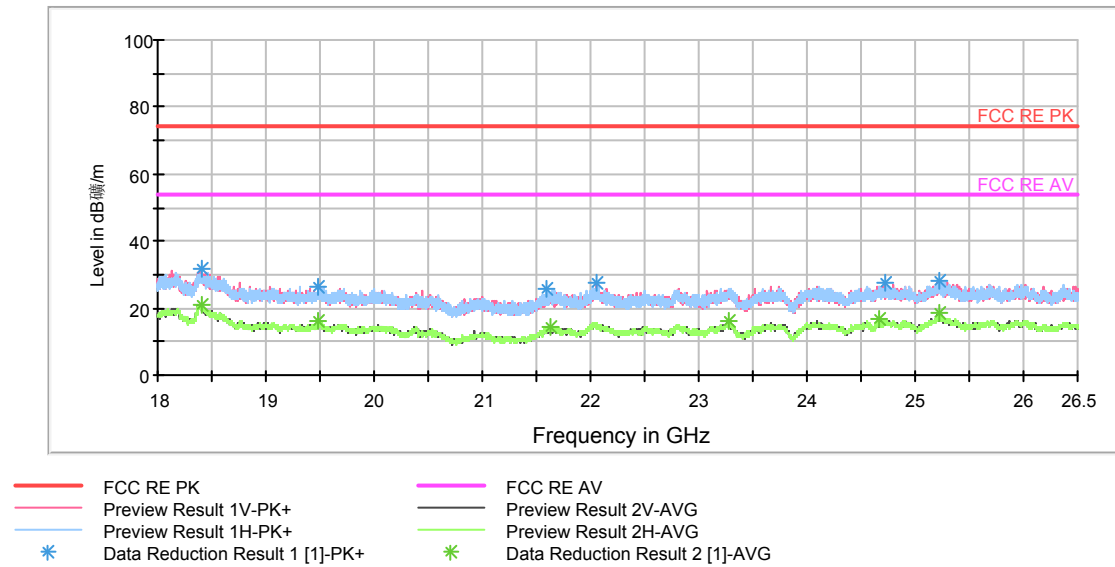
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RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

Note: This graph displays the maximum values of horizontal and vertical by software

Note: a font (Level in dBμV/m) in the test plot =(level in dBuV/m)

Frequency (MHz)	Peak (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18401.625000	31.3	V	0.0	26.4	-4.9	42.7	74
19477.937500	23.9	H	0.0	16.1	-7.8	50.1	74
21621.000000	23.2	V	0.0	14.2	-9.0	50.8	74
23279.562500	23.6	H	0.0	16.5	-7.1	50.4	74
24664.000000	23.9	V	0.0	16.8	-7.1	50.1	74
25216.500000	26.2	H	0.0	20.1	-6.1	47.8	74

Frequency (MHz)	Average (dBuV/m)	Polarization	Azimuth (deg)	Reading value (dBuV/m)	Correct Factor (dB)	Margin (dB)	Limit (dBuV/m)
18401.625000	20.8	V	0.0	15.9	-4.9	33.2	54
19477.937500	16.0	H	0.0	8.2	-7.8	38.0	54
21621.000000	14.3	V	0.0	5.3	-9.0	39.7	54
23279.562500	16.1	H	0.0	9.0	-7.1	37.9	54
24664.000000	16.6	V	0.0	9.5	-7.1	37.4	54
25216.500000	18.3	H	0.0	12.2	-6.1	35.7	54

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

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2.10. Conducted Emission

Ambient condition

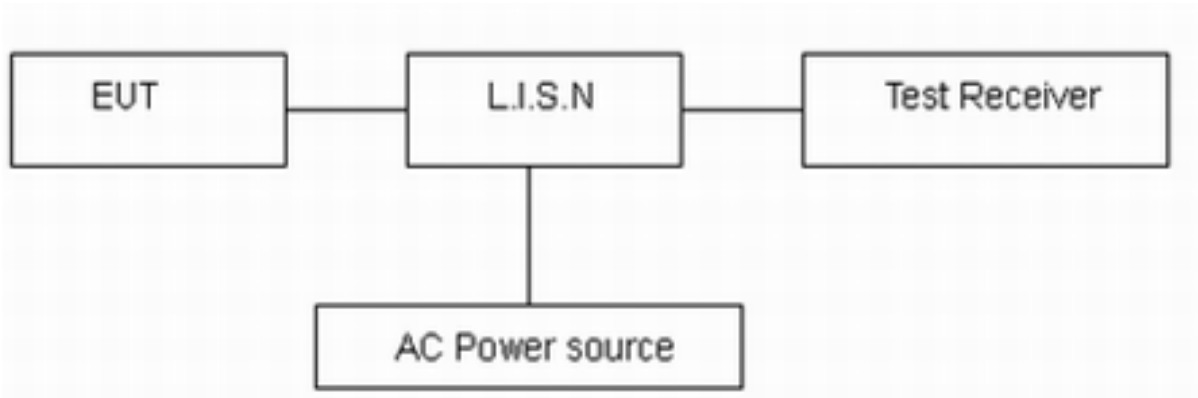
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

Methods of Measurement

The EUT is placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10-2013. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, VBW is set to 30kHz. The measurement result should include both L line and N line.

The test is in transmitting mode.

Test Setup



Note: AC Power source is used to change the voltage from 220V/50Hz to 110V/60Hz.

Limits

Frequency (MHz)	Conducted Limits(dBμV)	
	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.		

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$, $U = 2.69$ dB.

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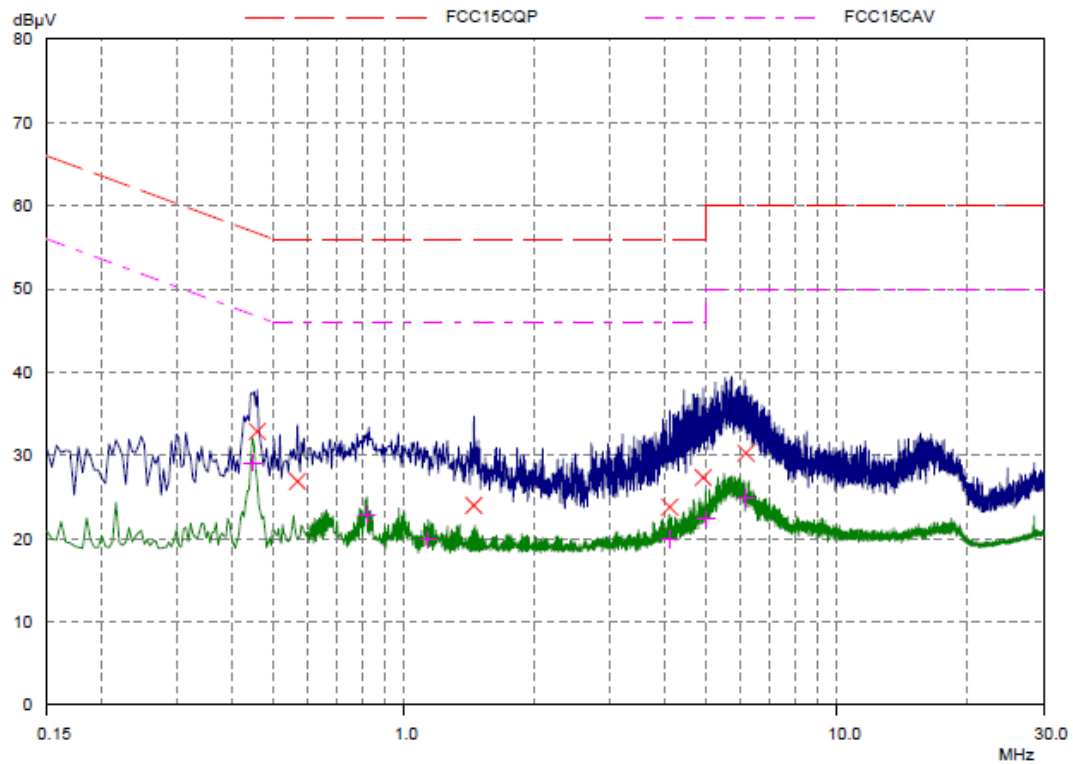
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Test Results:

Low Energy –CH0

L Line



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB	Phase -	PE -
0.45859	32.88	56.72	23.84	L1	gnd
0.56796	26.88	56.00	29.12	L1	gnd
1.45078	24.00	56.00	32.00	L1	gnd
4.11092	23.80	56.00	32.20	L1	gnd
4.90781	27.34	56.00	28.66	L1	gnd
6.16562	30.26	60.00	29.74	L1	gnd

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB	Phase -	PE -
0.44887	29.08	46.93	17.85	L1	gnd
0.82187	22.82	46.00	23.18	L1	gnd
1.13828	19.84	46.00	26.16	L1	gnd
4.0953	19.90	46.00	26.10	L1	gnd
4.97812	22.37	46.00	23.63	L1	gnd
6.16562	24.92	50.00	25.08	L1	gnd

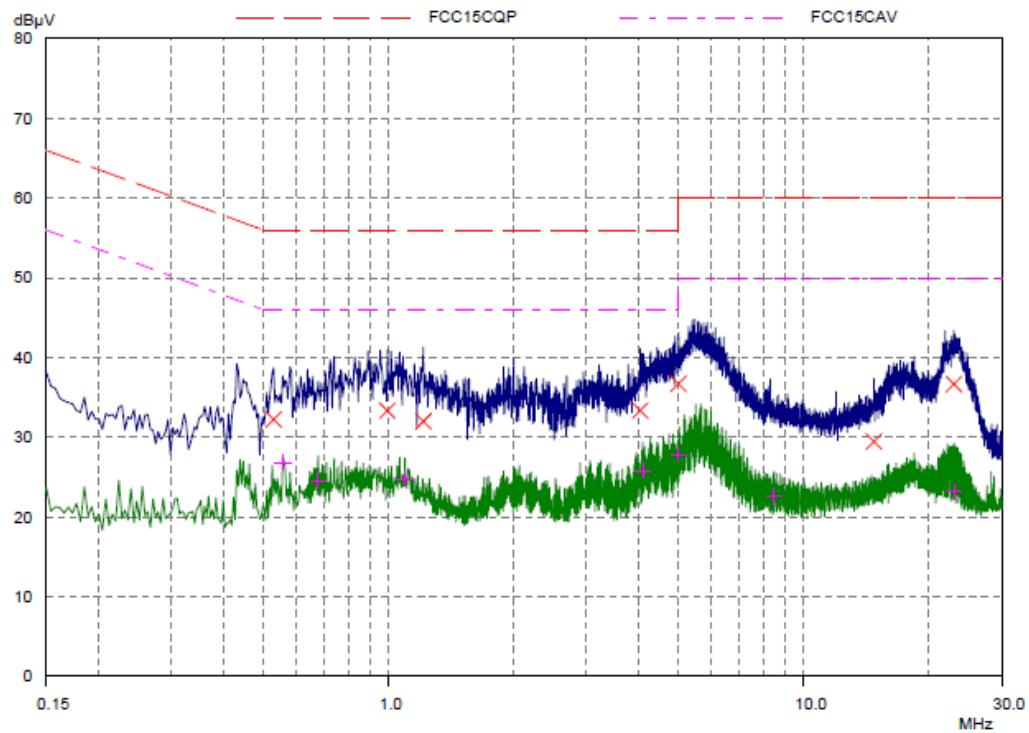
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N Line



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB	Phase -	PE -
0.5289	32.22	56.00	23.78	N	gnd
0.99375	33.34	56.00	22.66	N	gnd
1.2125	32.00	56.00	24.00	N	gnd
4.03671	33.36	56.00	22.64	N	gnd
4.99375	36.72	56.00	19.28	N	gnd
14.75156	29.48	60.00	30.52	N	gnd
22.97812	36.67	60.00	23.33	N	gnd

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB	Phase -	PE -
0.55625	26.83	46.00	19.17	N	gnd
0.67734	24.53	46.00	21.47	N	gnd
1.09531	24.76	46.00	21.24	N	gnd
4.0914	25.79	46.00	20.21	N	gnd
4.99375	27.86	46.00	18.14	N	gnd
8.48593	22.67	50.00	27.33	N	gnd
23.00546	23.16	50.00	26.84	N	gnd

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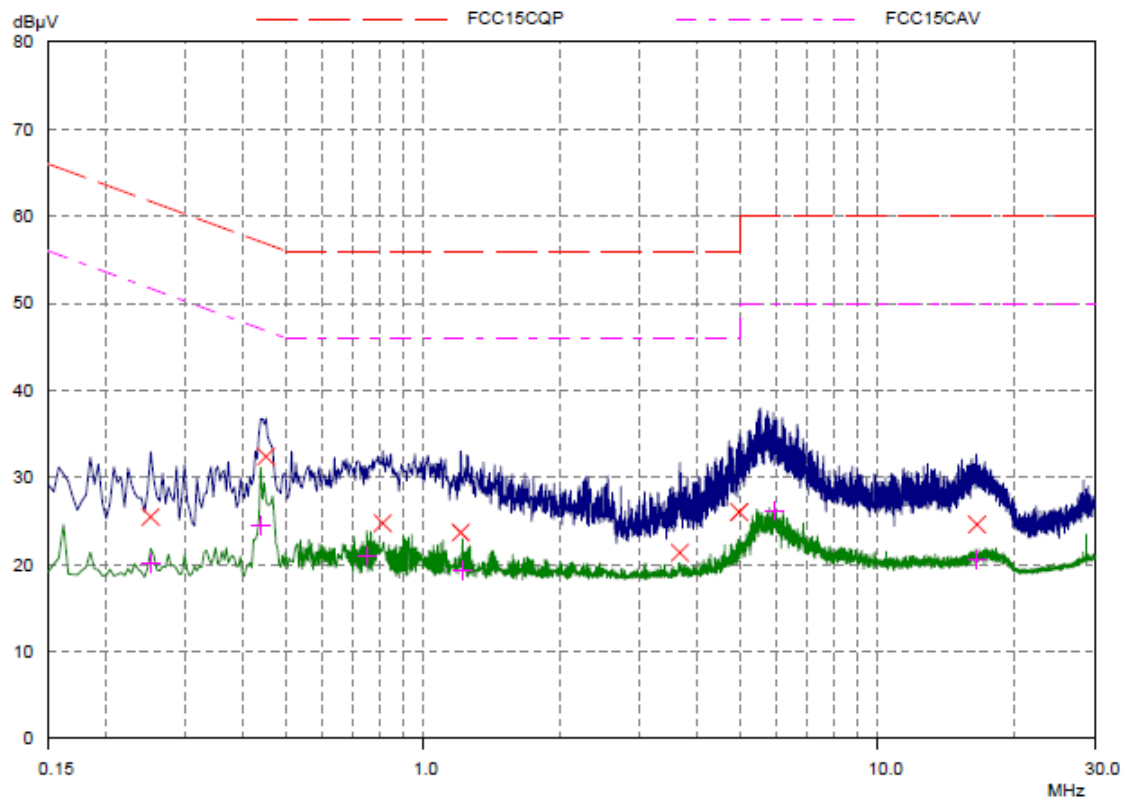
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Low Energy -CH19

L Line



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB	Phase -	PE -
0.25156	25.46	61.71	36.25	L1	gnd
0.45078	32.40	56.86	24.46	L1	gnd
0.81406	24.74	56.00	31.26	L1	gnd
1.20859	23.68	56.00	32.32	L1	gnd
3.66953	21.36	56.00	34.64	L1	gnd
4.95468	26.04	56.00	29.96	L1	gnd
16.51328	24.60	60.00	35.40	L1	gnd

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB	Phase -	PE -
0.25156	20.11	51.71	31.60	L1	gnd
0.43906	24.45	47.08	22.63	L1	gnd
0.75156	20.99	46.00	25.01	L1	gnd
1.22031	19.34	46.00	26.66	L1	gnd
5.92343	26.13	50.00	23.87	L1	gnd
16.51328	20.52	50.00	29.48	L1	gnd

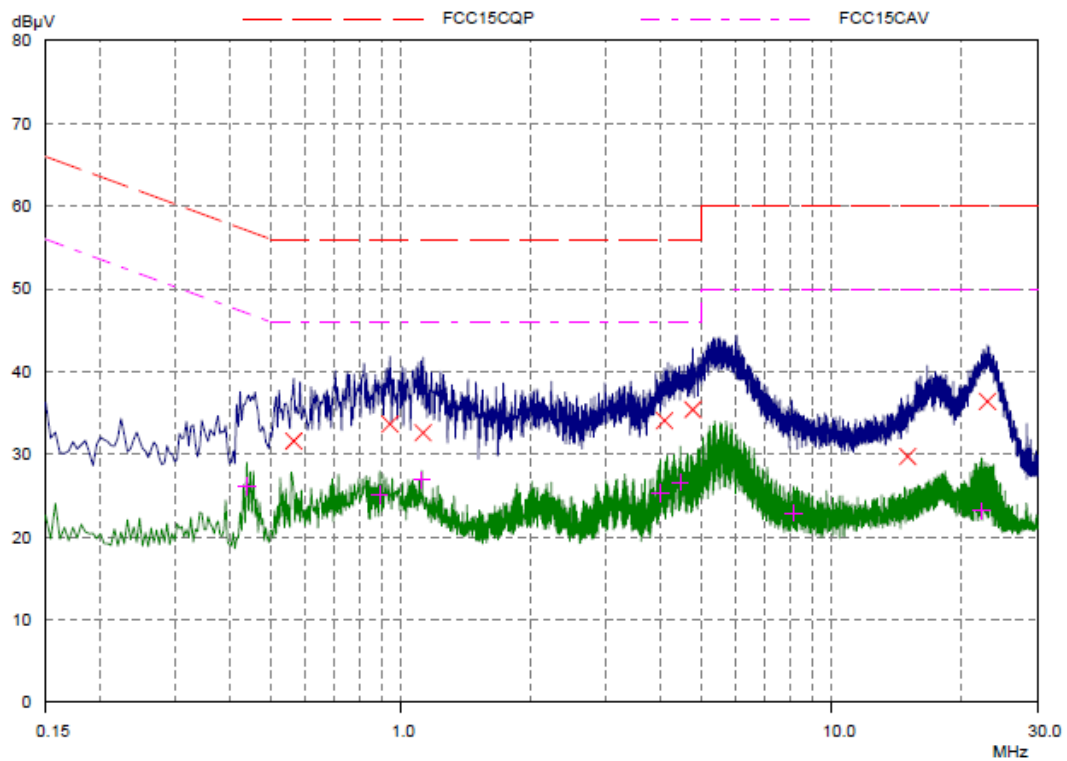
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N Line



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB	Phase -	PE -
0.58406	31.62	56.00	24.38	N	gnd
0.94296	33.66	56.00	22.34	N	gnd
1.12656	32.60	56.00	23.40	N	gnd
4.0875	34.08	56.00	21.92	N	gnd
4.75937	35.40	56.00	20.60	N	gnd
14.99765	29.75	60.00	30.25	N	gnd
22.95468	36.41	60.00	23.59	N	gnd

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB	Phase -	PE -
0.43906	26.13	47.08	20.95	N	gnd
0.89218	25.07	46.00	20.93	N	gnd
1.11875	26.89	46.00	19.11	N	gnd
4.00155	25.36	46.00	20.64	N	gnd
4.45078	26.64	46.00	19.36	N	gnd
8.15781	22.91	50.00	27.09	N	gnd
22.26718	23.19	50.00	26.81	N	gnd

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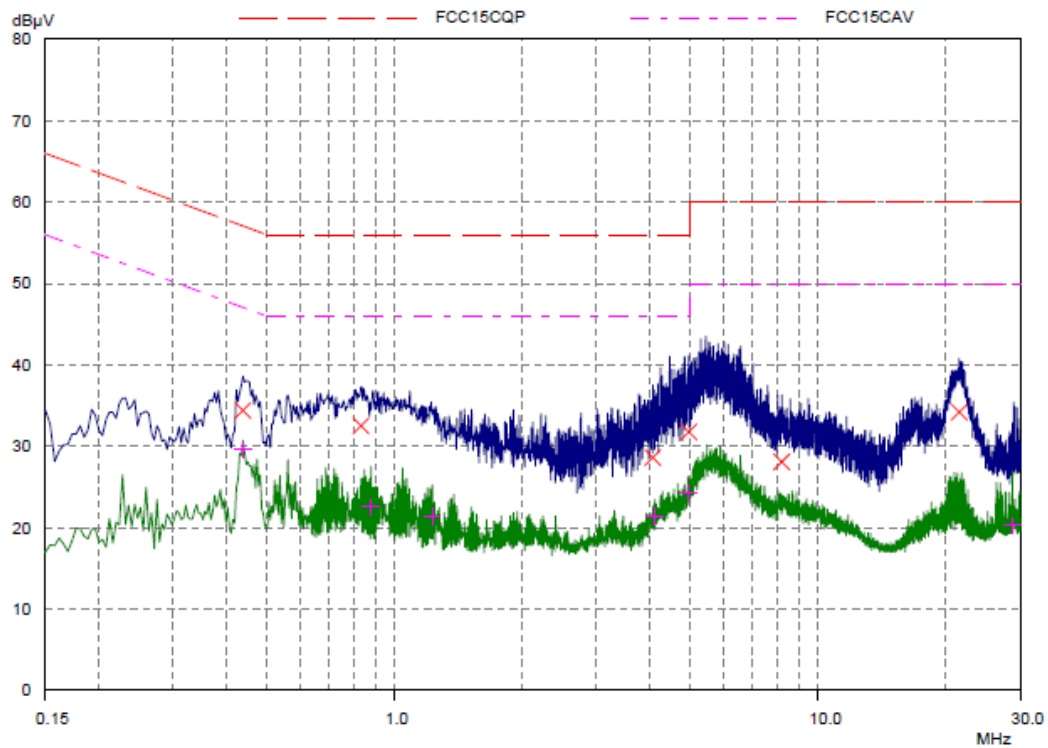
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Low Energy –CH39

L Line



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB	Phase -	PE -
0.43906	34.40	57.08	22.68	L1	gnd
0.83359	32.52	56.00	23.48	L1	gnd
4.07186	28.62	56.00	27.38	L1	gnd
4.95078	31.78	56.00	24.22	L1	gnd
8.20078	28.10	60.00	31.90	L1	gnd
21.50937	34.19	60.00	25.81	L1	gnd

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB	Phase -	PE -
0.43906	29.58	47.08	17.50	L1	gnd
0.88046	22.52	46.00	23.48	L1	gnd
1.22812	21.40	46.00	24.60	L1	gnd
4.10311	21.34	46.00	24.66	L1	gnd
4.92734	24.29	46.00	21.71	L1	gnd
28.73203	20.25	50.00	29.75	L1	gnd

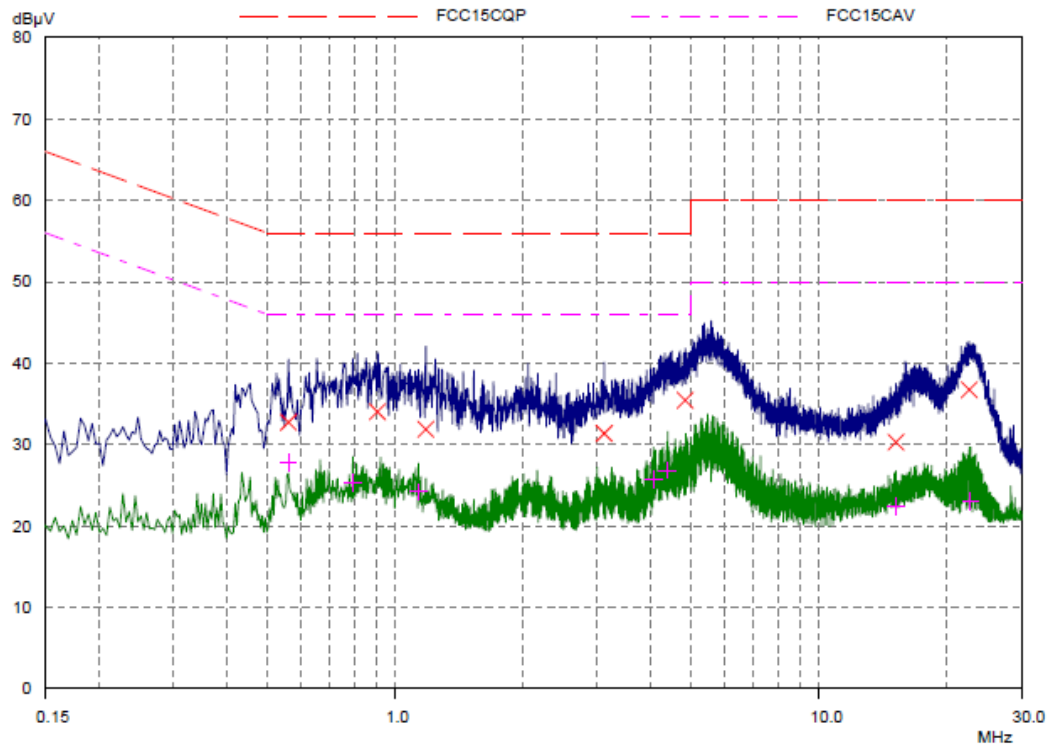
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N Line



Final Measurement Results

Frequency MHz	QP Level dBμV	QP Limit dBμV	QP Delta dB	Phase -	PE -
0.56015	32.74	56.00	23.26	N	gnd
0.90781	34.04	56.00	21.96	N	gnd
1.18125	31.88	56.00	24.12	N	gnd
3.11093	31.36	56.00	24.64	N	gnd
4.82968	35.44	56.00	20.56	N	gnd
15.16171	30.32	60.00	29.68	N	gnd
22.56015	36.73	60.00	23.27	N	gnd

Frequency MHz	AV Level dBμV	AV Limit dBμV	AV Delta dB	Phase -	PE -
0.56015	27.75	46.00	18.25	N	gnd
0.79453	25.29	46.00	20.71	N	gnd
1.13437	24.20	46.00	21.80	N	gnd
4.06405	25.72	46.00	20.28	N	gnd
4.39218	26.83	46.00	19.17	N	gnd
15.16171	22.47	50.00	27.53	N	gnd
22.73203	23.04	50.00	26.96	N	gnd

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3. Main Test Instruments

No.	Name	Type	Manufacturer	Serial Number	Calibration Date	Expiration Time	Valid Period
01	Loop Antenna	FMZB1519	SCHWARZBECK	1519-047	2014-02-29	2017-02-28	3 years
02	EMI Test Receiver	ESCI	R&S	100948	2015-05-25	2016-05-24	1 year
03	TRILOG Broadband Antenna	VULB 9163	Schwarzbeck	9163-201	2013-11-25	2016-11-24	3 years
04	Double Ridged Waveguide Horn Antenna	HF907	R&S	100126	2015-07-01	2018-06-30	3 years
05	Spectrum Analyzer	N9010A	Agilent	MY46181146	2015-05-25	2016-05-24	1 year
06	Spectrum Analyzer	FSV30	R&S	100815	2014-12-17	2015-12-16	1 year
07	Standard Gain Horn	3160-09	ETS-Lindgren	00102644	2015-05-19	2018-05-18	3 years
08	RF Cable	SMA 15cm	Agilent	0001	2015-010-04	2015-12-03	2 months

*****END OF REPORT *****