

FCC - TEST REPORT

Report Number : **7088818110933-00** Date of Issue: January 9, 2019

Model : SensorPod

Product Type : SensorPod

FCC ID : GV3-18SP001

Applicant : ACCO Brands, Inc.

Address : 1500 Fashion Island Blvd., 3rd Floor, San Mateo, CA 94404
California, United States

Manufacture : ACCO Brands, Inc.

Address : 1500 Fashion Island Blvd., 3rd Floor, San Mateo, CA 94404
California, United States

Test Result : ☒ **Positive** ☐ **Negative**

Total pages including Appendices : 26

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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
No.16 Lane, 1951 Du Hui Road,
Shanghai 201108,
P.R. China

Test Firm
Registration
Number: 820234

Telephone: +86 21 6141 0123
Fax: +86 21 6140 8600

Test Site 2

Company name: MRT Technology (Suzhou) Co., Ltd.
D8 Building, Youxin Industrial Park, No. 2 Tina'ed Wuzhong
Economic Development Zone, Suzhou, China

FCC Registration
No.: 893164

IC Registration
No.: 11384A-1

Telephone: +86-512-66308358
Fax: +86-512-66308368

3 Description of the Equipment Under Test

Product:	SensorPod
Model no.:	SensorPod
FCC ID:	GV3-18SP001
Input Rated Voltage:	9VDC by Adapter (Input: 120V~, 60Hz, Output: 9VDC)
RF Transmission Frequency:	2462MHz
No. of Operated Channel:	1
Channel Bandwidth:	1MHz
Modulation:	GFSK
Antenna Type:	Integral Antenna
Antenna Gain:	2.0dBi
Description of the EUT:	The Equipment Under Test (EUT) is an SensorPod.

4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

5 Summary of Test Results

Technical Requirements					
FCC Part 15 Subpart C					
Test Condition	Pages	Test Site	Test Result		
			Pass	Fail	N/A
§15.07(a) Conduction Emissions	10	Site 2	☒	☐	☐
§15.205(a), §15.209(a), §15.249(a), §15.249(c) Field strength of emissions and Restricted bands	13	Site 2	☒	☐	☐
FCC §15.215(c) 20dB bandwidth	20	Site 2	☒	☐	☐
§15.249(d) Out of band emissions	22	Site 2	☒	☐	☐
§15.203 Antenna requirement	See note 1		☒	☐	☐

Remark 1: N/A – Not Applicable.

Note 1: §15.203 requirement: 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.

E.U.T Antenna: The EUT antenna is an integrated PCB antenna, the best-case gain of the antenna is 2.0 dBi.

The antenna of the **SensorPod**, is permanently attached.

There are no provisions for connection to an external antenna.

Conclusion: The EUT unit complies with the requirement of §15.203.

6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: GV3-18SP001 complies with Section 15.203, 15.205, 15.207, 15.209, 15.249 of the FCC Part 15, Subpart C Rules.

SUMMARY:

All tests according to the regulations cited on page 5 were

■ - Performed

□ - **Not** Performed

The Equipment Under Test

■ - **Fulfills** the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

Sample Received Date: November 20, 2018

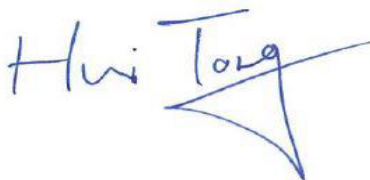
Testing Start Date: November 21, 2018

Testing End Date: January 5, 2019

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch -

Reviewed by:

Prepared by:



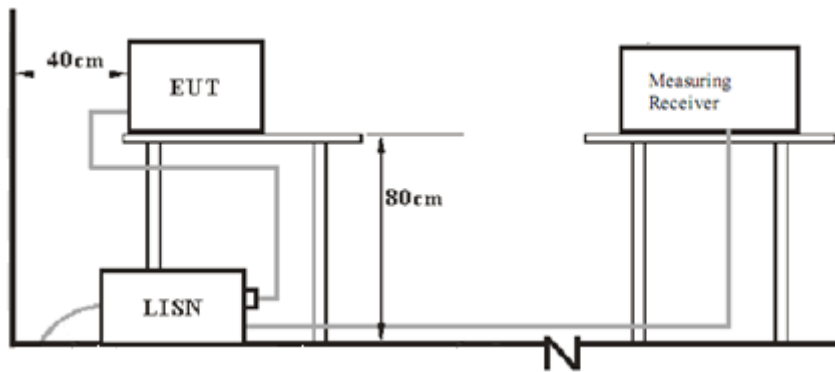
Hui TONG
Review Engineer



Jiaxi XU
Project Engineer

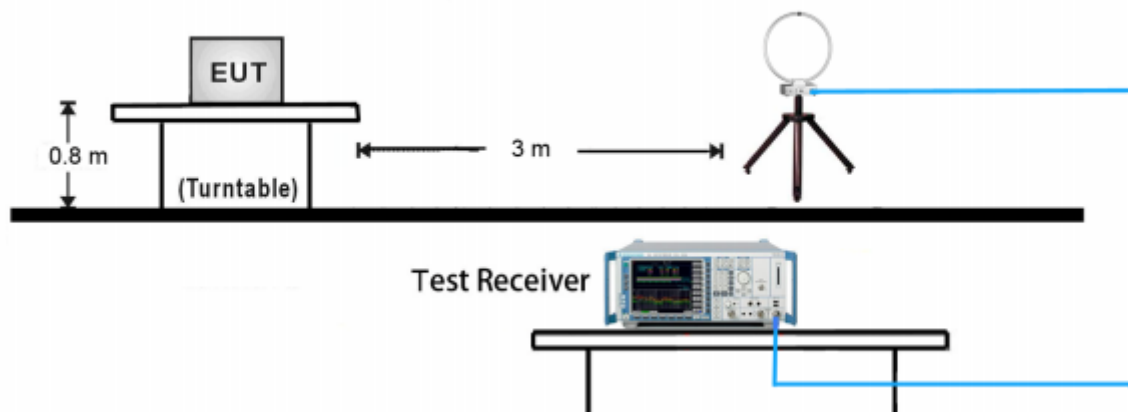
7 Test setups

7.1 AC Power Line Conducted Emission test setups

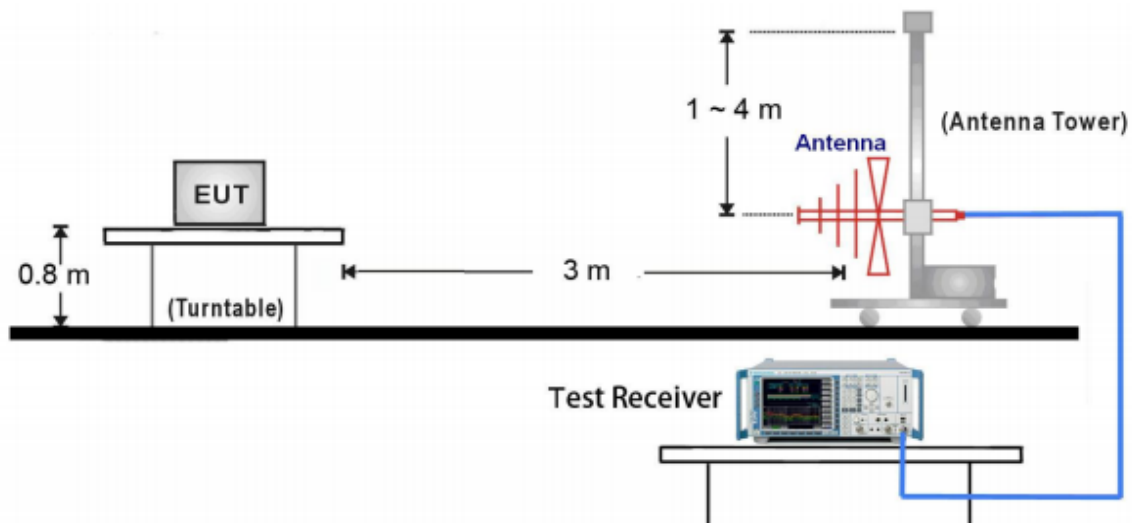


7.2 Radiated test setups

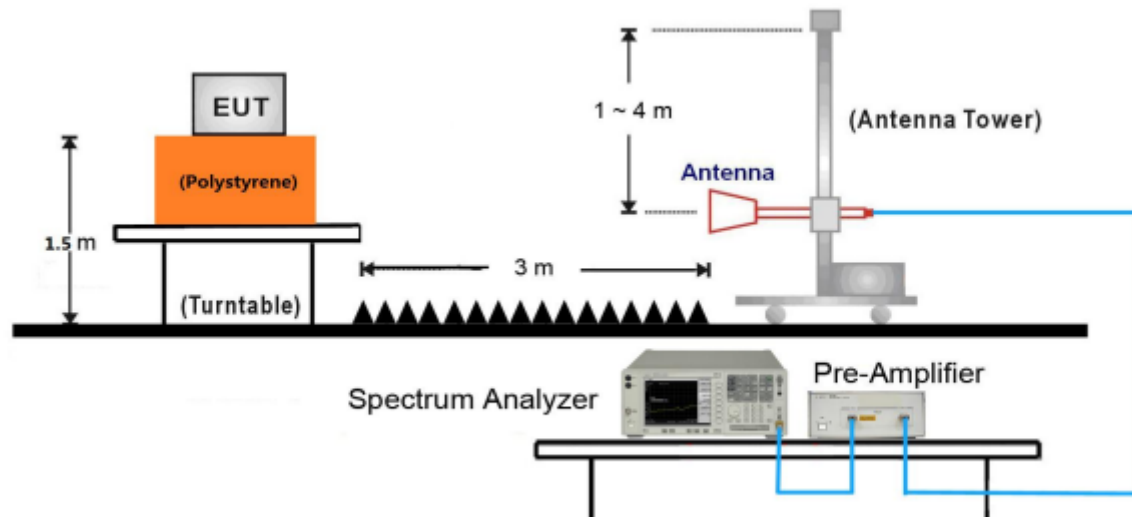
9kHz ~ 30MHz Test Setup:



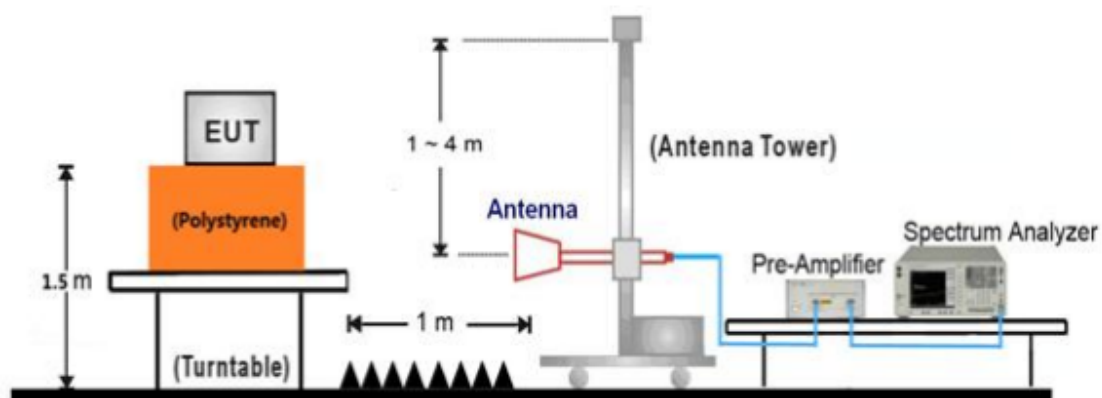
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:



18GHz ~ 25GHz Test Setup:



8 Technical Requirement

8.1 Conducted Emission

Test Method

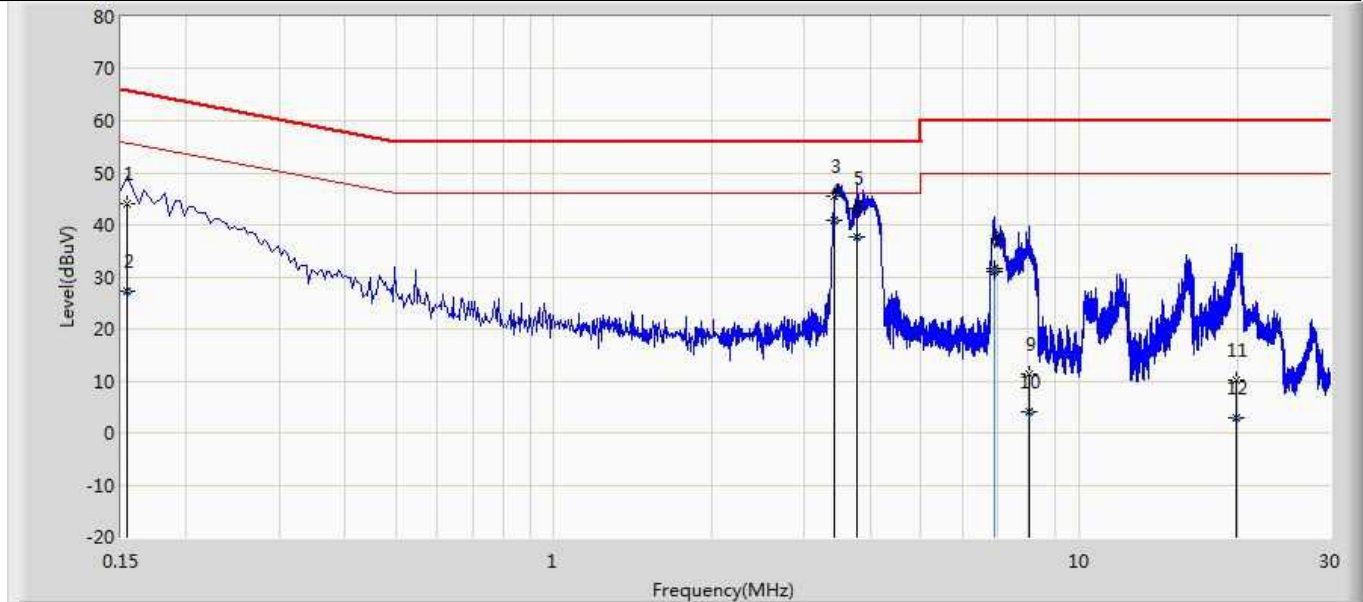
1. The EUT was placed on a table, which is 0.8m above ground plane
2. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
3. Maximum procedure was performed to ensure EUT compliance
4. A EMI test receiver is used to test the emissions from both sides of AC line

Limit

Frequency MHz	QP Limit dB μ V	AV Limit dB μ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

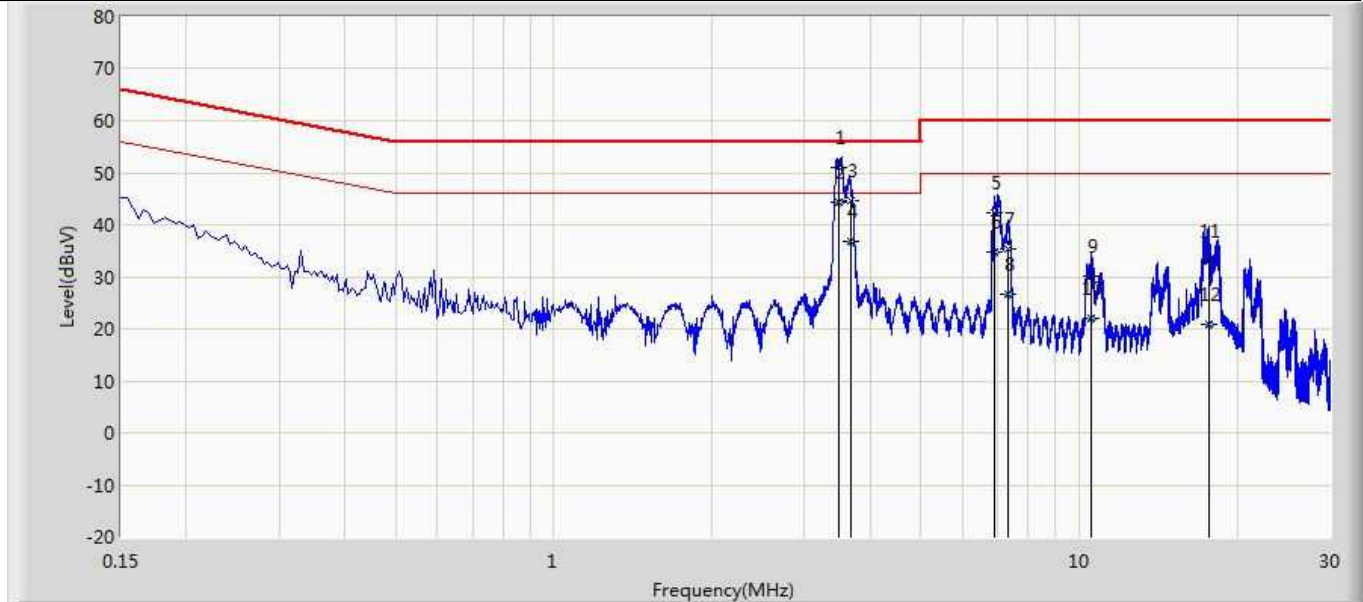
Decreasing linearly with logarithm of the frequency

Site: SR2	Time: 2019/01/05 - 16:28	China
Limit: FCC_Part15.207_CE_AC Power	Engineer: Liz Yuan	
Probe: ENV216_101683_Filter On	Polarity: Line	
EUT: SensorPod	Power: AC 120V/60Hz	
Test Mode: Transmit		



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.154	44.092	33.352	-21.690	65.781	10.740	QP
2			0.154	27.215	16.475	-28.567	55.781	10.740	AV
3			3.428	45.402	35.500	-10.598	56.000	9.902	QP
4		*	3.428	40.902	31.000	-5.098	46.000	9.902	AV
5			3.762	43.159	33.200	-12.841	56.000	9.959	QP
6			3.762	37.759	27.800	-8.241	46.000	9.959	AV
7			6.875	30.913	20.760	-19.087	50.000	10.153	AV
8			6.875	31.653	21.500	-18.347	50.000	10.153	AV
9			8.042	11.189	1.018	-48.811	60.000	10.171	QP
10			8.042	4.011	-6.160	-45.989	50.000	10.171	AV
11			19.946	10.271	0.131	-49.729	60.000	10.140	QP
12			19.946	2.926	-7.214	-47.074	50.000	10.140	AV

Site: SR2	Time: 2019/01/05 - 16:48	China
Limit: FCC_Part15.207_CE_AC Power	Engineer: Liz Yuan	
Probe: ENV216_101683_Filter On	Polarity: Neutral	
EUT: SensorPod	Power: AC 120V/60Hz	
Test Mode: Transmit		



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			3.496	51.014	41.100	-4.986	56.000	9.914	QP
2		*	3.496	44.414	34.500	-1.586	46.000	9.914	AV
3			3.670	44.764	34.822	-11.236	56.000	9.942	QP
4			3.670	36.782	26.841	-9.218	46.000	9.942	AV
5			6.902	42.368	32.200	-17.632	60.000	10.168	QP
6			6.902	34.925	24.757	-15.075	50.000	10.168	AV
7			7.334	35.290	25.109	-24.710	60.000	10.181	QP
8			7.334	26.779	16.597	-23.221	50.000	10.181	AV
9			10.538	30.247	20.100	-29.753	60.000	10.146	QP
10			10.538	22.024	11.878	-27.976	50.000	10.146	AV
11			17.622	33.147	23.018	-26.853	60.000	10.128	QP
12			17.622	20.989	10.861	-29.011	50.000	10.128	AV

8.2 Field strength of emissions and Restricted bands

Test Method

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
3. Use the following spectrum analyzer settings:
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 $\geq$ RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Follow the guidelines in ANSI C63.4-2014 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc.
The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
5. Set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the duty cycle 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 $20\log(\text{duty cycle}/100\text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Limits

According to §15.249 (a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

According to §15.249 (c), Field strength limits are specified at a distance of 3 meters.

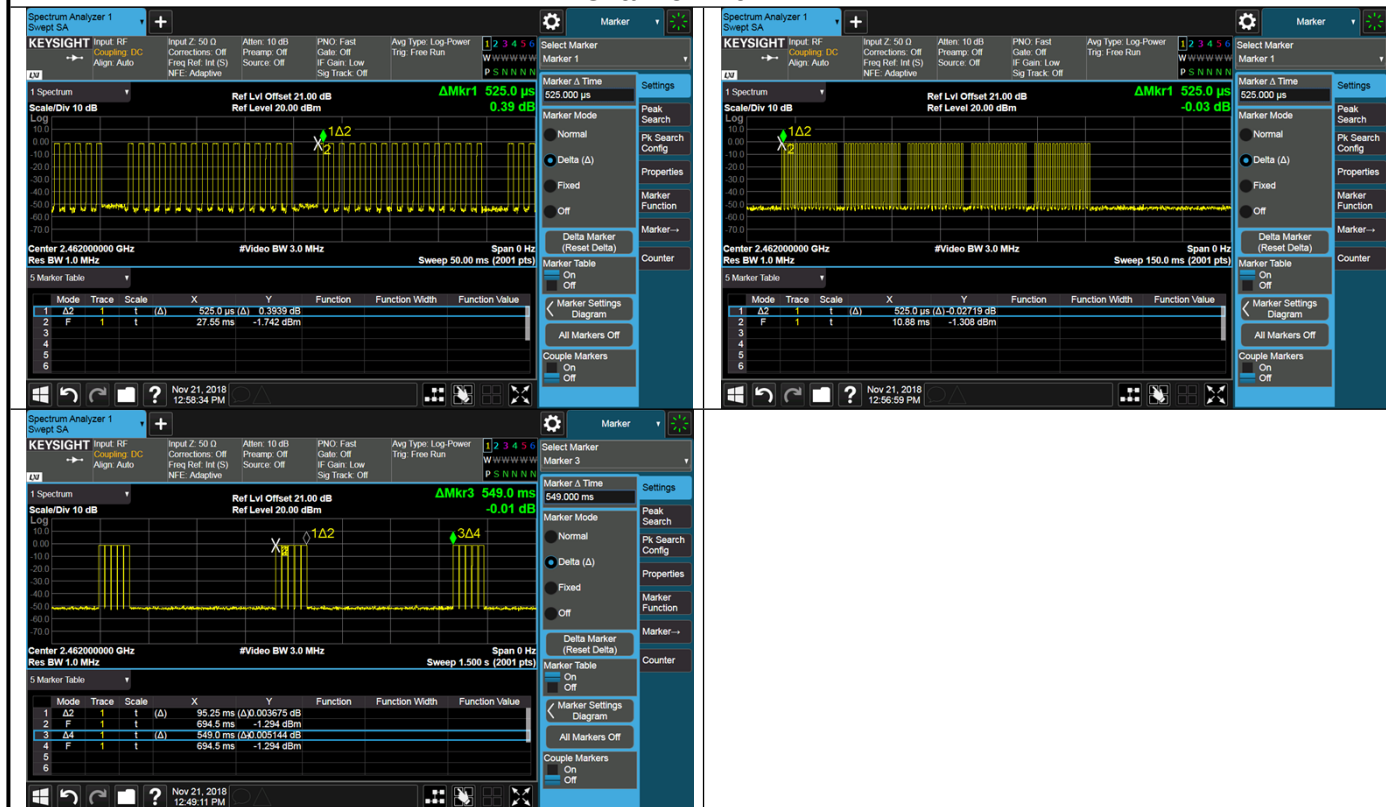
According to §15.249 (d), Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

According to §15.205 and Unwanted emissions falling into restricted bands in §15.205 (a) Table 3 shall comply with the limits specified in §15.209.

Duty Cycle Factor

Time On (ms)	One Period (ms)	Duty Cycle (%)	Duty Cycle Factor (dB)
42	549	7.65	-22.35

Note: Duty Cycle Factor = 20*Log (Duty Cycle)

Channel 2462MHz

$$\text{Time On (ms)} = 0.525 \text{ ms} * 16 * 5 = 42 \text{ ms}$$

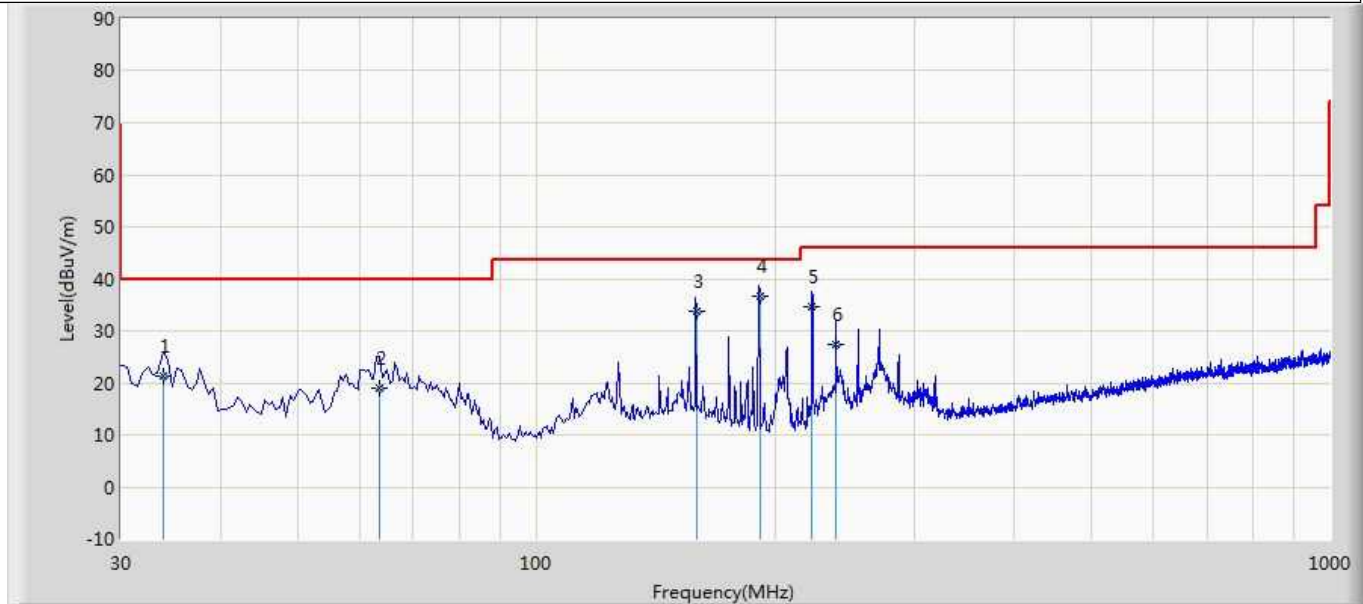
Field strength of emissions and Restricted bands

2462 MHz

Fundamental

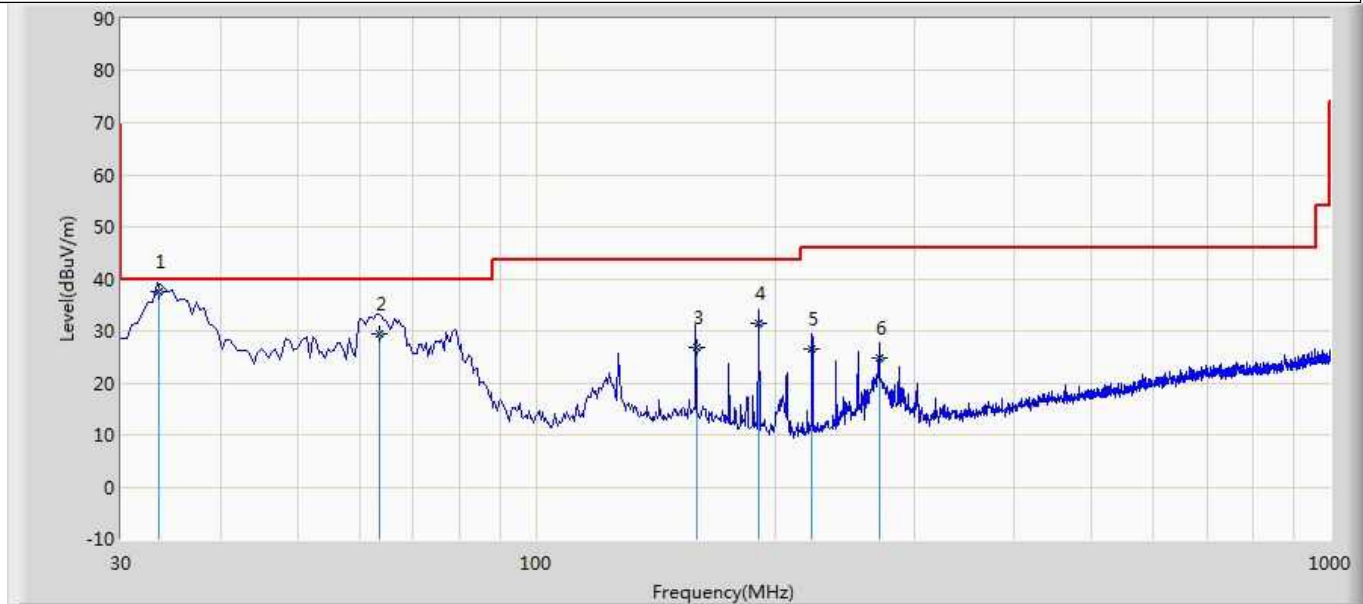
Fundamental Frequency (MHz)	Polarisation (Vertical/ Horizontal)	Reading Level	Factor	Duty Cycle Factor	Field Strength	Over Limit	Limit		Type
		(dBµV/)	(dB)	(dB)	dBµV/m	(dB)	(dBµV/m)	mV/m	AV/PK
2462.095	H	43.84	32.28	N/A	76.12	-37.88	114.0	50	PK
2462.095	H	43.84	32.28	-22.35	53.77	-40.23	94.0		AV
2462.095	V	47.116	32.28	N/A	79.396	-34.604	114.0	50	PK
2462.095	V	47.116	32.28	-22.35	57.046	-36.954	94.0		AV

Site: AC1	Time: 2018/11/21 - 23:43	China
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong	
Probe: VULB 9168_20-2000MHz	Polarity: Horizontal	
EUT: SensorPod	Power: AC 120V/60Hz	
Test Mode: Transmit at Channel 2462MHz		



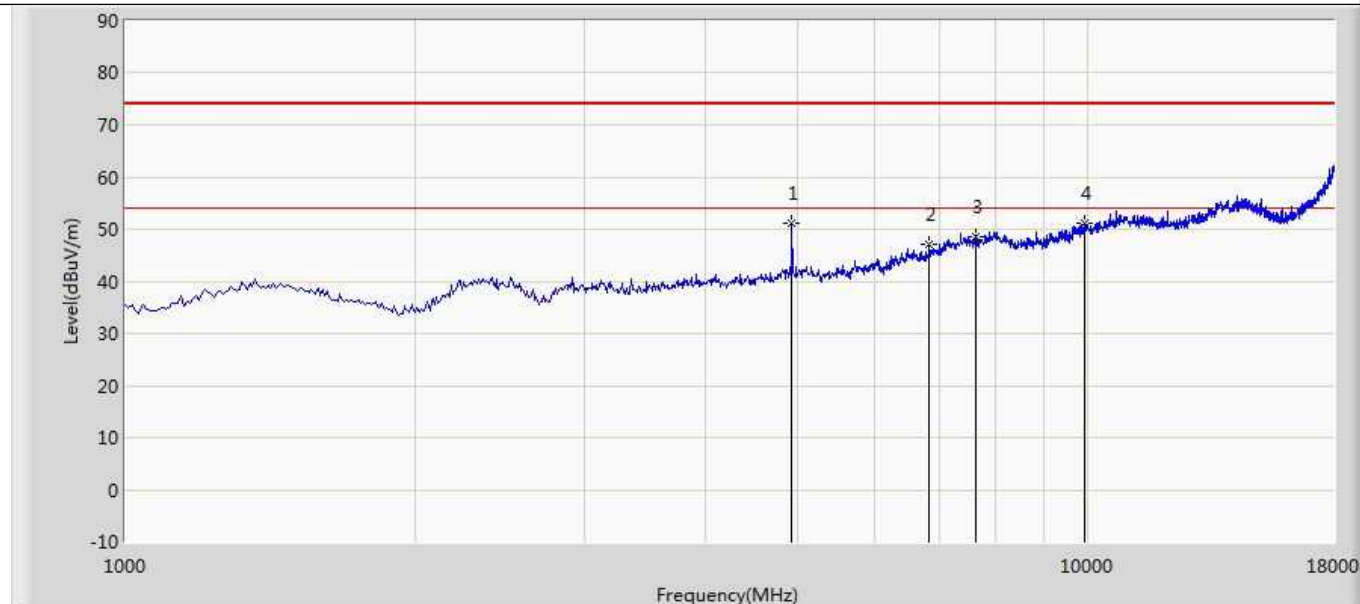
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			33.880	21.239	7.348	-18.761	40.000	13.892	QP
2			63.558	19.018	6.221	-20.982	40.000	12.796	QP
3			159.359	33.630	18.347	-9.870	43.500	15.283	QP
4		*	191.394	36.539	24.884	-6.961	43.500	11.655	QP
5			222.694	34.612	22.447	-11.388	46.000	12.165	QP
6			238.478	27.516	14.687	-18.484	46.000	12.829	QP

Site: AC1	Time: 2018/11/21 - 23:45	China
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong	
Probe: VULB 9168_20-2000MHz	Polarity: Vertical	
EUT: SensorPod	Power: AC 120V/60Hz	
Test Mode: Transmit at Channel 2462MHz		



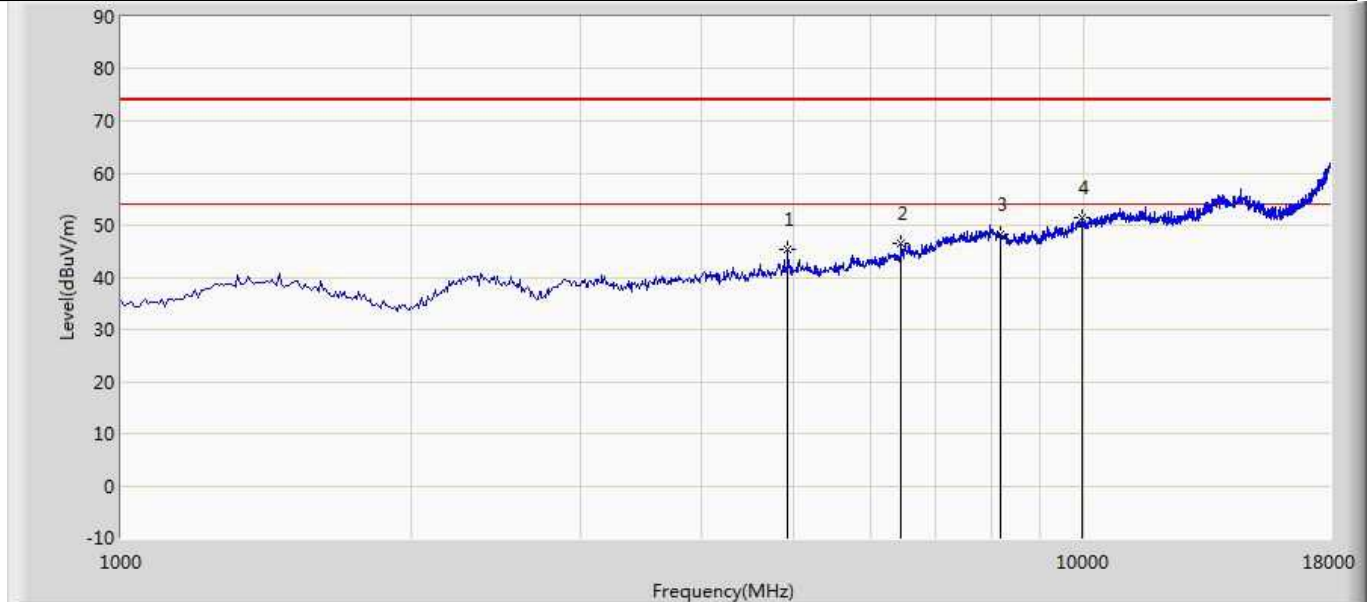
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	33.547	37.422	23.545	-2.578	40.000	13.877	QP
2			63.485	29.291	16.481	-10.709	40.000	12.810	QP
3			159.648	26.940	11.664	-16.560	43.500	15.277	QP
4			191.055	31.342	19.668	-12.158	43.500	11.674	QP
5			222.555	26.459	14.302	-19.541	46.000	12.157	QP
6			270.548	24.733	11.119	-21.267	46.000	13.614	QP

Site: AC1	Time: 2018/12/05 - 04:55	China
Limit: FCC_Part15.209_RSE(3m)	Engineer: Max Wang	
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal	
EUT: SensorPod	Power: AC 120V/60Hz	
Test Mode: Transmit at Channel 2462MHz		



No	Flag	Mark	Frequency (MHz)	Reading Level (dBuV)	Factor (dB)	Duty Cycle Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Type
1		*	4927.000	45.174	6.128	N/A	51.302	74.000	-22.698	PK
			4927.000	45.174	6.128	-22.350	28.952	54.000	-25.048	AV
2			6839.500	36.641	10.548	N/A	47.189	74.000	-26.811	PK
			6839.500	36.641	10.548	-22.350	24.839	54.000	-29.161	AV
3			7647.000	35.927	12.677	N/A	48.604	74.000	-25.396	PK
			7647.000	35.927	12.677	-22.350	26.254	54.000	-27.746	AV
4			9925.000	34.488	16.621	N/A	51.109	74.000	-22.891	PK
			9925.000	34.488	16.621	-22.350	28.759	54.000	-25.241	AV

Site: AC1	Time: 2018/12/05 - 04:58	China
Limit: FCC_Part15.209_RSE(3m)	Engineer: Max Wang	
Probe: BBHA9120D_1-18GHz	Polarity: Vertical	
EUT: SensorPod	Power: AC 120V/60Hz	
Test Mode: Transmit at Channel 2462MHz		



o	Flag	Mark	Frequency (MHz)	Reading Level (dBuV)	Factor (dB)	Duty Cycle Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Type
1			4927.000	39.363	6.128	N/A	45.491	74.000	-28.509	PK
			4927.000	39.363	6.128	-22.350	23.141	54.000	-30.859	AV
2			6457.000	36.642	9.757	N/A	46.399	74.000	-27.601	PK
			6457.000	36.642	9.757	-22.350	24.049	54.000	-29.951	AV
3			8199.500	35.076	13.070	N/A	48.146	74.000	-25.854	PK
			8199.500	35.076	13.070	-22.350	25.796	54.000	-28.204	AV
4		*	9959.000	34.890	16.670	N/A	51.560	74.000	-22.440	PK
			9959.000	34.890	16.670	-22.350	29.210	54.000	-24.790	AV

8.3 20dB Bandwidth

Test Method

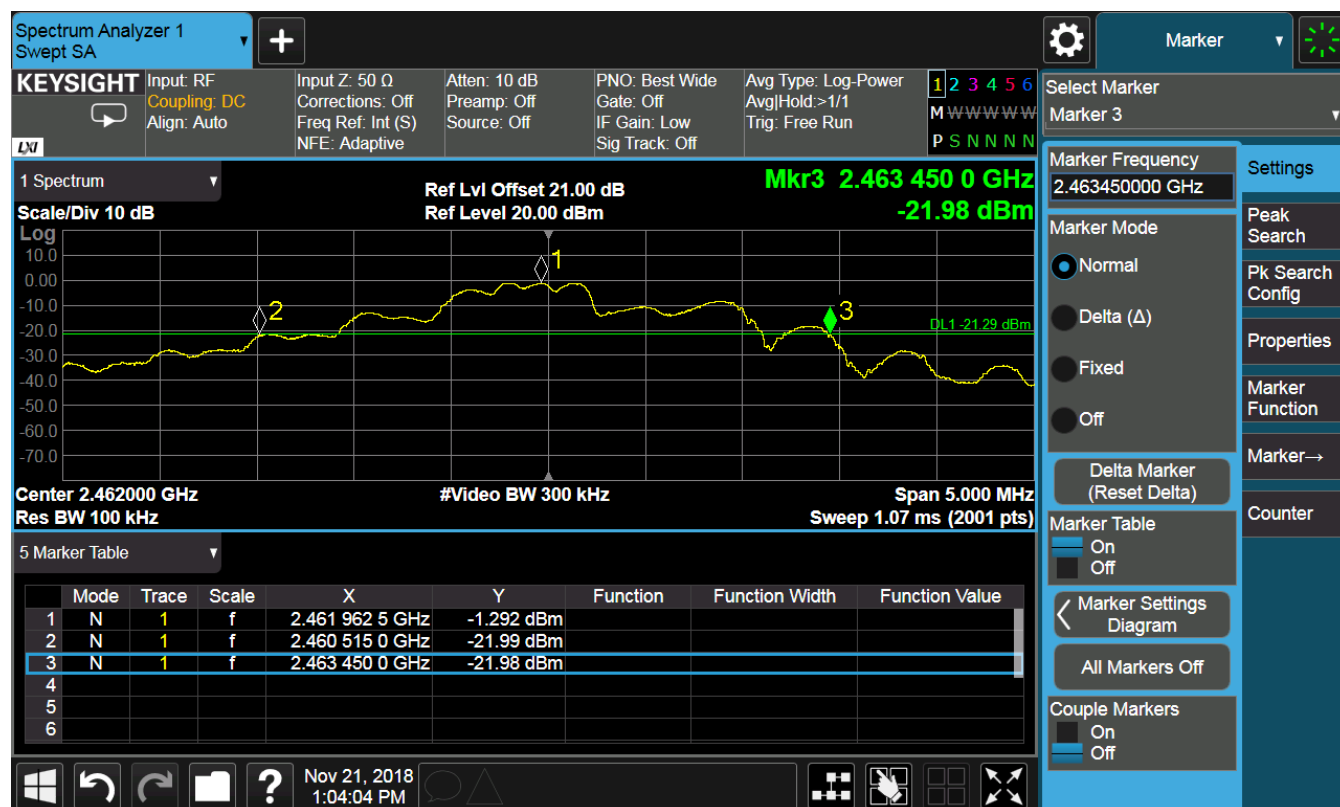
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.

Limits:

According to 15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

20dB Bandwidth

Frequency	20dB Bandwidth	Limit	Result
MHz	kHz	kHz	
2462	2935	NA	PASS



8.4 Band edge testing

Test Method

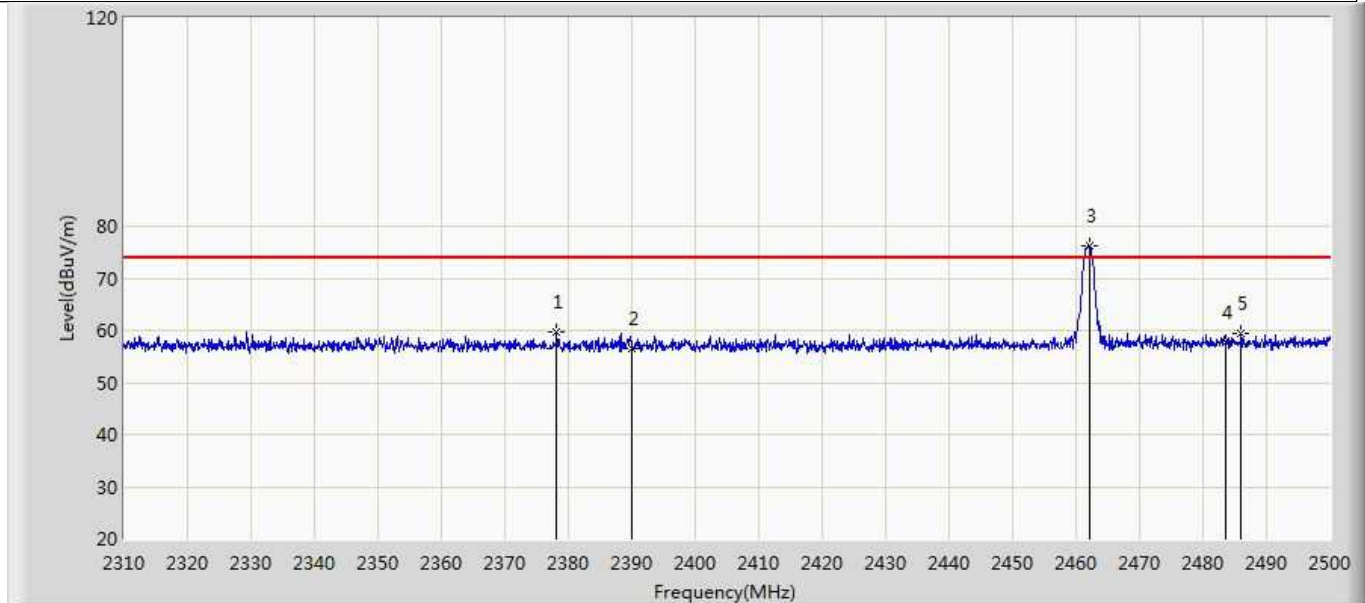
- 1 Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 100 kHz, VBW $\geq$ RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 2 Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 3 The level displayed must comply with the limit specified in this Section. .
- 4 Repeat the test at the hopping off and hopping on mode, submit all the plots.

Limit:

According to §15.249(d), Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

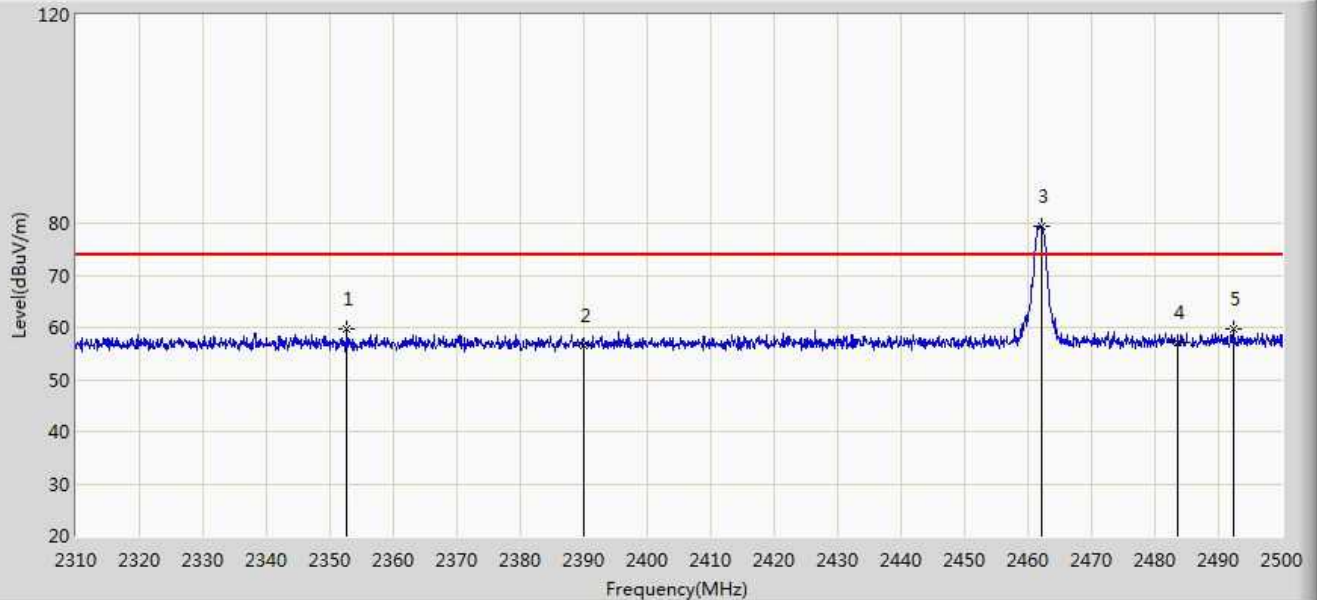
Band edge testing

Site: AC1	Time: 2018/12/05 - 05:06
Limit: FCC_Part15.209_RE(3m)	Engineer: Max Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: SensorPod	Power: AC 120V/60Hz
Test Mode: Transmit at Channel 2462MHz	



No	Flag	Mark	Frequency (MHz)	Reading Level (dBuV)	Factor (dB)	Duty Cycle Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Type
1			2378.210	27.247	32.342	N/A	59.589	74.000	-14.411	PK
			2378.210	27.247	32.342	-22.350	37.239	54.000	-16.761	AV
2			2390.000	24.194	32.327	N/A	56.521	74.000	-17.479	PK
			2390.000	24.194	32.327	-22.350	34.171	54.000	-19.829	AV
3		*	2462.095	43.840	32.280	N/A	76.120	114.000	-37.880	PK
			2462.095	43.840	32.280	-22.350	53.770	94.000	-40.230	AV
4			2483.500	25.379	32.340	N/A	57.719	74.000	-16.281	PK
			2483.500	25.379	32.340	-22.350	35.369	54.000	-18.631	AV
5			2486.035	26.952	32.349	N/A	59.301	74.000	-14.699	PK
			2486.035	26.952	32.349	-22.350	36.951	54.000	-17.049	AV

Site: AC1	Time: 2018/12/05 - 05:12	China
Limit: FCC_Part15.209_RE(3m)	Engineer: Max Wang	
Probe: BBHA9120D_1-18GHz	Polarity: Vertical	
EUT: SensorPod	Power: AC 120V/60Hz	
Test Mode: Transmit at Channel 2462MHz		



No	Flag	Mark	Frequency (MHz)	Reading Level (dBuV)	Factor (dB)	Duty Cycle Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Type
1			2352.655	27.417	32.393	N/A	59.810	74.000	-14.190	PK
			2352.655	27.417	32.393	-22.350	37.460	54.000	-16.540	AV
2			2390.000	24.329	32.327	N/A	56.656	74.000	-17.344	PK
			2390.000	24.329	32.327	-22.350	34.306	54.000	-19.694	AV
3		*	2462.095	47.116	32.280	N/A	79.396	114.000	-34.604	PK
			2462.095	47.116	32.280	-22.350	57.046	94.000	-36.954	AV
4			2483.500	24.791	32.340	N/A	57.131	74.000	-16.869	PK
			2483.500	24.791	32.340	-22.350	34.781	54.000	-19.219	AV
5			2492.305	27.300	32.374	N/A	59.674	74.000	-14.326	PK
			2492.305	27.300	32.374	-22.350	37.324	54.000	-16.676	AV

9 Test equipment list

List of Test Instruments

Test Site1

	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
C	Signal Analyzer	Rohde & Schwarz	FSV40	101091	2019-8-6
RE	EMI Test Receiver	Rohde & Schwarz	ESR3	101906	2019-8-6
	Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	848	2021-6-10
	Horn Antenna	Rohde & Schwarz	HF907	102393	2021-4-1
	Pre-amplifier	Rohde & Schwarz	SCU-18D	19006451	2019-8-6
	3m Semi-anechoic chamber	TDK	9X6X6	----	2021-5-10
CE	EMI Test Receiver	Rohde & Schwarz	ESR 3	101907	2019-8-6
	LISN	Rohde & Schwarz	ENV4200	100224	2019-8-6
	LISN	Rohde & Schwarz	ENV216	101924	2019-8-6

Test Site2

Conducted Emissions - SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR3	MRTSUE06185	1 year	2019/04/20
Two-Line V-Network	R&S	ENV 216	MRTSUE06002	1 year	2019/06/15
Two-Line V-Network	R&S	ENV 216	MRTSUE06003	1 year	2019/06/15
Thermohygrometer	Testo	608-H1	MRTSUE06404	1 year	2019/08/15
Shielding Anechoic Chamber	Mikebang	Chamber-SR2	MRTSUE06214	N/A	N/A

Radiated Emissions - AC1

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2019/08/14
PXA Signal Analyzer	Keysight	9030B	MRTSUE06395	1 year	2019/09/14
Loop Antenna	Schwarzbeck	FMZB 1519	MRTSUE06025	1 year	2019/11/20
Bilog Period Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2019/04/12
Broad Band Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06023	1 year	2019/10/20
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06024	1 year	2019/12/17
Broadband Coaxial Preamplifier	Agilent	83017A	MRTSUE06076	1 year	2019/11/16
Preamplifier	Schwarzbeck	BBV 9721	MRTSUE06121	1 year	2019/06/12
Digital Thermometer & Hygrometer	Testo	608-H1	MRTSUE06403	1 year	2019/08/15
Anechoic Chamber	TDK	Chamber-AC1	MRTSUE06213	1 year	2019/05/02

10 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

Test Site1

Items	Extended Uncertainty
Conducted Disturbance at Mains Terminals	150kHz to 30MHz, LISN, $\pm 2.73\text{dB}$
Radiated Disturbance	30MHz to 1GHz, $\pm 5.03\text{dB}$ (Horizontal) $\pm 5.11\text{dB}$ (Vertical) 1GHz to 18GHz, $\pm 5.15\text{dB}$ (Horizontal) $\pm 5.12\text{dB}$ (Vertical) 18GHz to 25GHz, $\pm 4.76\text{dB}$

Test Site2

AC Conducted Emission Measurement - SR2

Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):

150kHz~30MHz: 3.46dB

Radiated Emission Measurement – AC1

Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):

9kHz ~ 1GHz: 4.18dB

1GHz ~ 25GHz: 4.76dB

The End

