

Report No.: XEWM2303000130RG02
 Rev.: 01
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TEST REPORT

Application No.: XEWM2303000130RG
Applicant: KonnectONE Inc.
Address of Applicant: 40 Lake Bellevue, Suite 340, Bellevue, WA 98005
Manufacturer: KonnectONE Inc.
Address of Manufacturer: 40 Lake Bellevue, Suite 340, Bellevue, WA 98005
EUT Description: Moxee T2310
Model No.: T2310
Trade Mark: Moxee
FCC ID: 2APQU-T2310
Standards: FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2023/04/10
Date of Test: 2023/04/14 to 2023/04/29
Date of Issue: 2023/05/09

Test Result :	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Peter Tan
 Regulatory Technical Manager



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/05/09		Original

Prepared By	 _____ (Leah Chen) / Test Engineer
Checked By	 _____ (Andy Yao) / Reviewer



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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)	--	Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10-2020 Section 6.2	Clause 4.2	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10-2020 Section 11.9.1.2	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10-2020 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10-2020 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.10	PASS



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3 General Information

3.1 Details of Client

Applicant:	KonnectONE Inc.
Address of Applicant:	40 Lake Bellevue, Suite 340, Bellevue, WA 98005
Manufacturer:	KonnectONE Inc.
Address of Manufacturer:	40 Lake Bellevue, Suite 340, Bellevue, WA 98005

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Address:	1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi' an, Shaanxi China
Post code:	710086
Test engineer:	Qiang Zhang, Jacky Xue

3.3 Test Facility

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

<p>• A2LA (Certificate No. 4854.01) SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.</p> <p>• Innovation, Science and Economic Development Canada SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized by ISED as an accredited testing laboratory. CAB identifier: CN0095. IC#: 25613.</p> <p>• FCC –Designation Number: CN1337 SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized as an accredited testing laboratory. Designation Number: CN1337. Test Firm Registration Number: 917410</p>



3.4 General Description of EUT

EUT Description:	Moxee T2310	
Model No.:	T2310	
Trade Mark:	Moxee	
Hardware Version:	V1.0	
Software Version:	Moxee_T2310_13.0_06	
IMEI:	RF Conducted	350119040005906
	RSE & AC power line	350119040005898
Operation Frequency:	2400MHz~2483.5MHz $f_c = 2402 \text{ MHz} + N * 2 \text{ MHz}$, where: - f_c = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 0 to 39.	
Bluetooth version:	Bluetooth V5.0	
Modulation Type:	GFSK	
Number of Channel:	40	
Rates Type*:	<input checked="" type="checkbox"/> Provided by client	
	1M PHY	2M PHY
Antenna Type:	PIFA Antenna	
Antenna Gain:	0.1dBi (Ant2)	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	1.4dB	
<p>Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.</p> <p>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.</p>		



Operation Frequency of each channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

Remark:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel(CH0)	2402MHz
The Middle channel(CH19)	2440MHz
The Highest channel(CH39)	2480MHz



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3.5 Test Environment

Environment Parameter	96~101 kPa Selected Values During Tests	
Relative Humidity	40-60 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~25	3.85
Remark: NV: Normal Voltage NT: Normal Temperature		

3.6 Description of Support Units

The EUT has been tested as an independent unit.



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(b)
<p>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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>	
<p>The antenna is PIFA Antenna and no consideration of replacement. The best case gain of the antenna is 0.1dBi (Ant2). *</p> <p><i>*Note:</i> <i>The antenna gain are derived from the gain information report provided by the manufacturer.</i></p> <p><i>Remark:</i> <i>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.</i></p>	



4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10-2020 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range(MHz)	Limit (dBuV)	
		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.			
Test Procedure:	<ol style="list-style-type: none"> 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10-2020 on conducted measurement. 		



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<p>Test Setup:</p>	
<p>Test Mode:</p>	<p>Transmitting with GFSK modulation. Charge + Transmitting mode.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details.</p>
<p>Test Results:</p>	<p>Pass</p>



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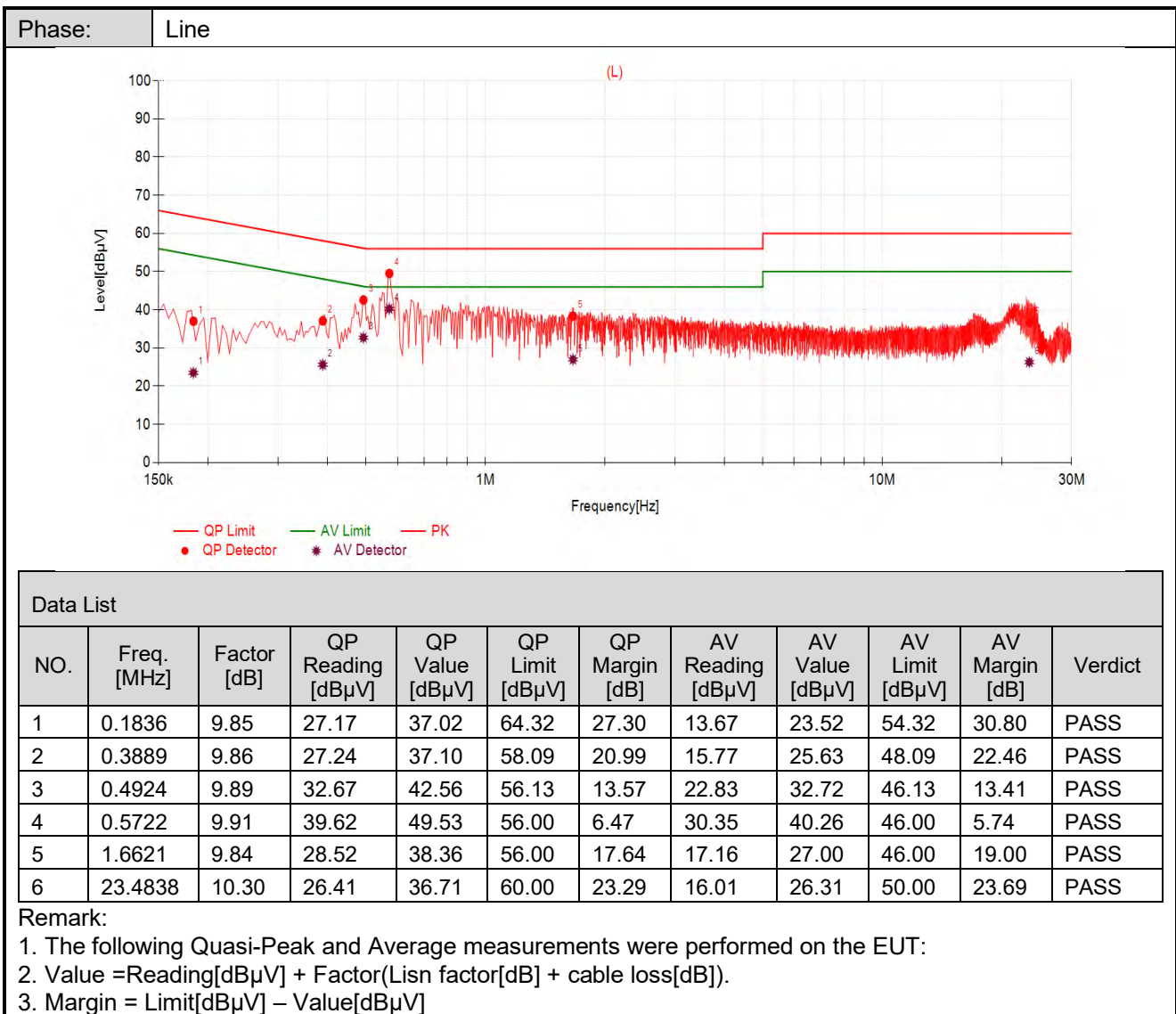
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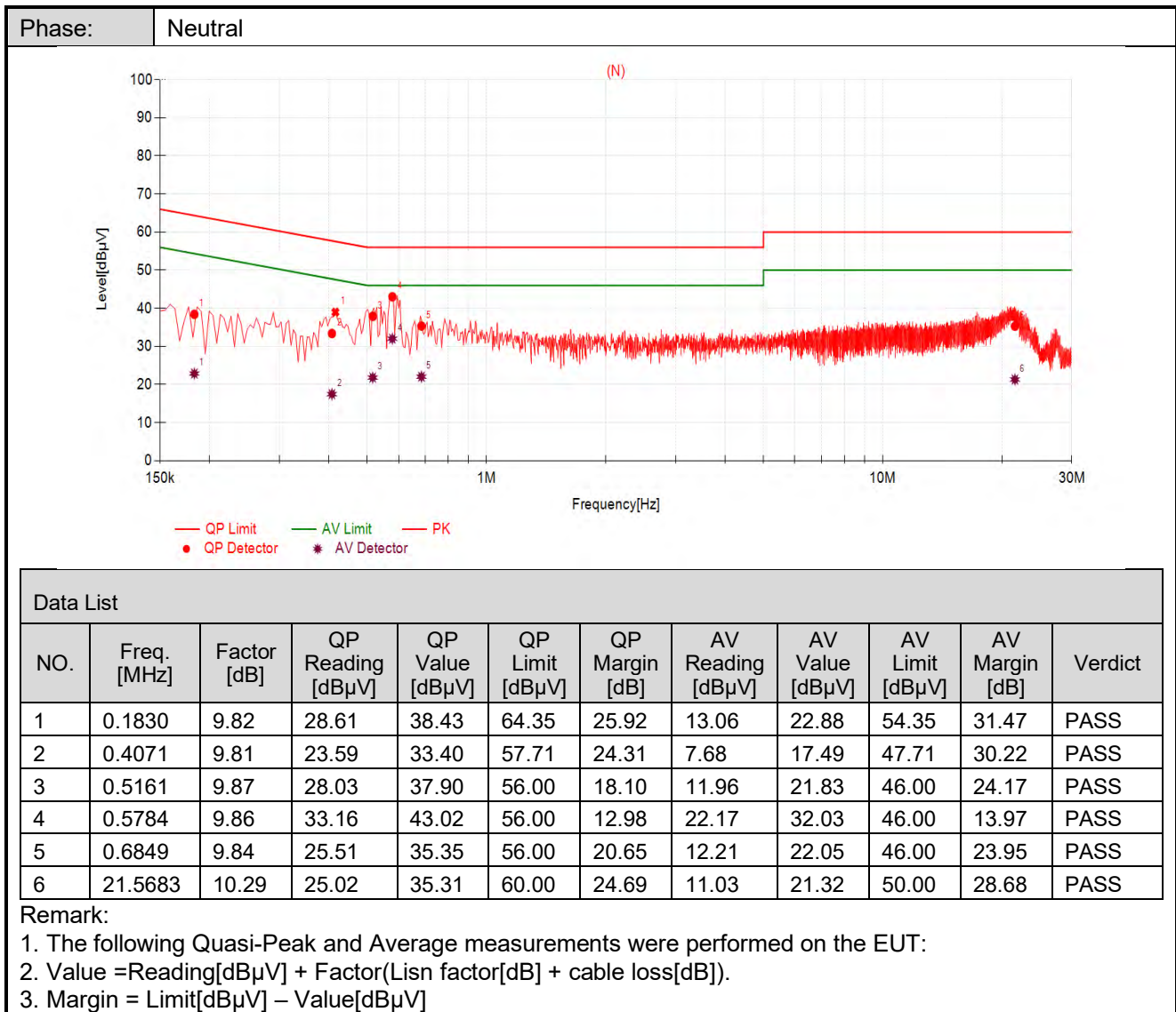
Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

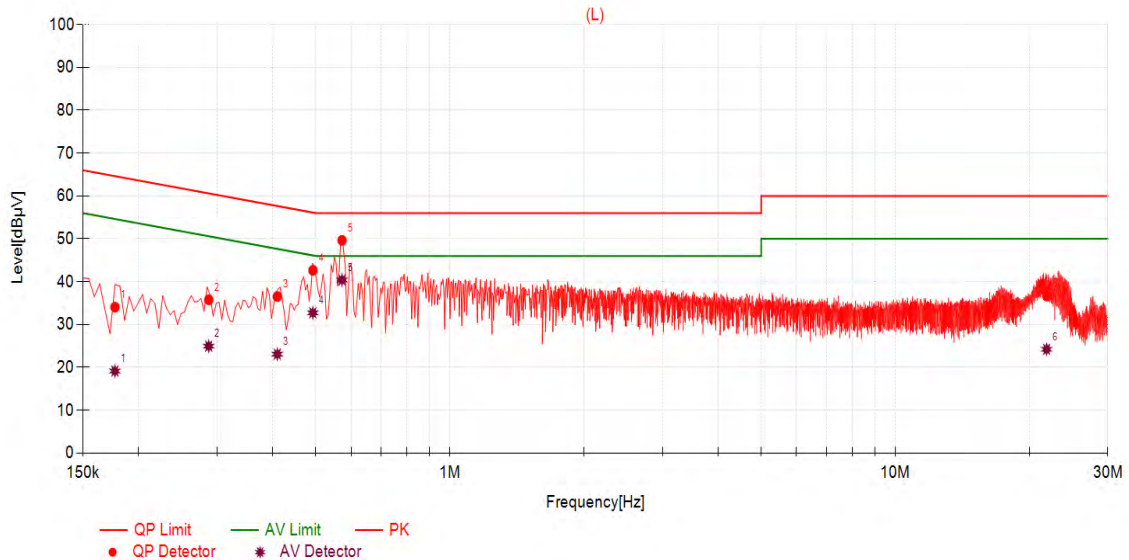
BLE 1M:





BLE 2M:

Phase:	Line
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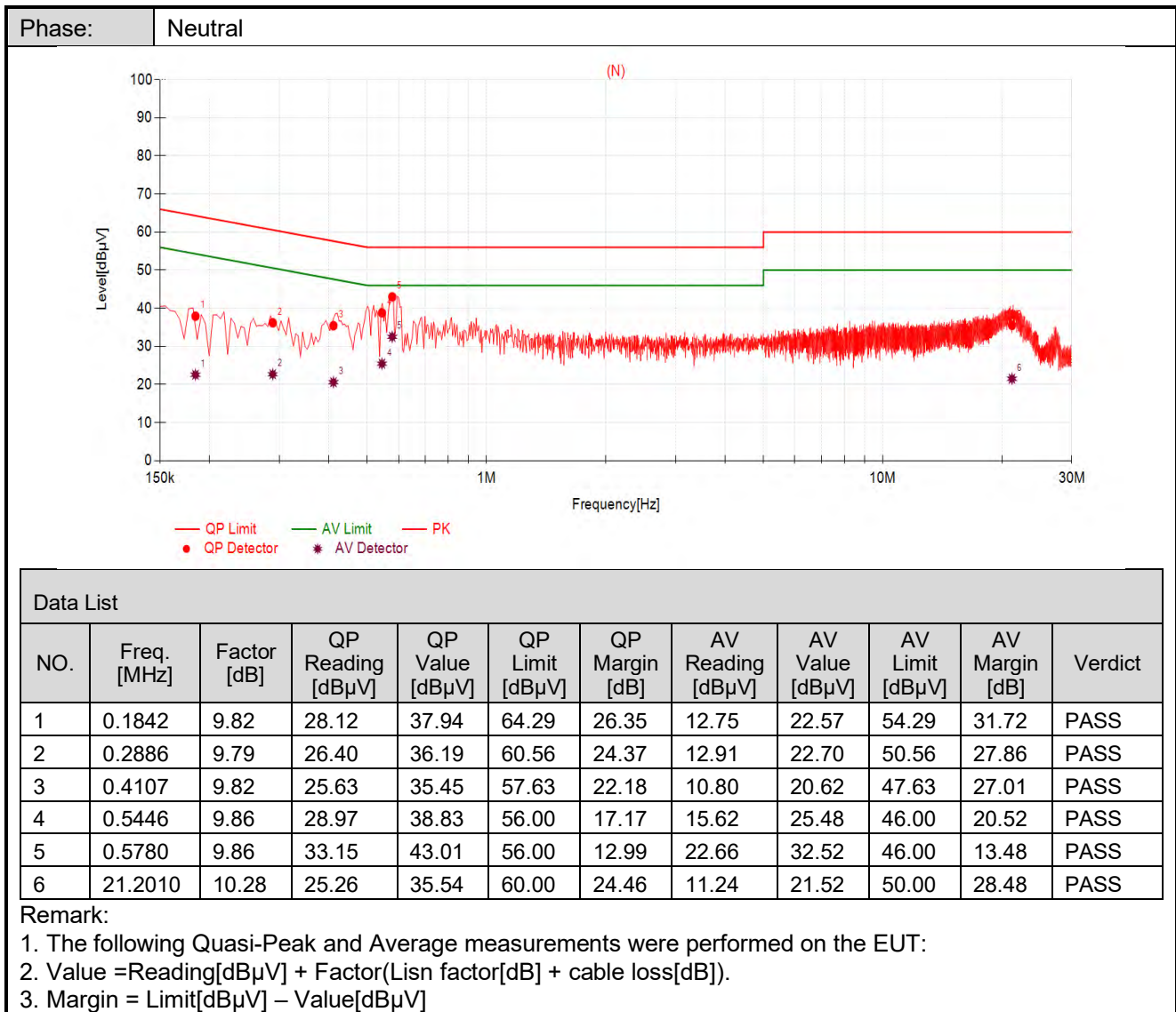
Data List

NO.	Freq. [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	0.1769	9.85	24.22	34.07	64.63	30.56	9.30	19.15	54.63	35.48	PASS
2	0.2873	9.90	25.89	35.79	60.60	24.81	15.07	24.97	50.60	25.63	PASS
3	0.4096	9.85	26.69	36.54	57.66	21.12	13.24	23.09	47.66	24.57	PASS
4	0.4923	9.89	32.77	42.66	56.13	13.47	22.85	32.74	46.13	13.39	PASS
5	0.5723	9.91	39.73	49.64	56.00	6.36	30.48	40.39	46.00	5.61	PASS
6	21.8732	10.28	26.39	36.67	60.00	23.33	13.95	24.23	50.00	25.77	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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4.3 Duty Cycle

The detailed test data see: **Appendix**



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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10-2020 Section 11.9.1.2
Test Setup:	<p>* Test with power meter (Detector function: Peak)</p>
Test Instruments:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	30dBm
Test Results:	Pass
The detailed test data see: Appendix	



4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10-2020 Section 11.8 Option 2 / 6.9.3
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	≥ 500 kHz
Test Results:	Pass
The detailed test data see: Appendix	



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4.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10-2020 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	≤8.00dBm/3kHz
Test Results:	Pass
The detailed test data see: Appendix	



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4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10-2020 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	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, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	



4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10-2020 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	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, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	



4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10-2020 Section 11.12				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Test Frequency:	9kHz ~ 25GHz				
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					

Test Setup:

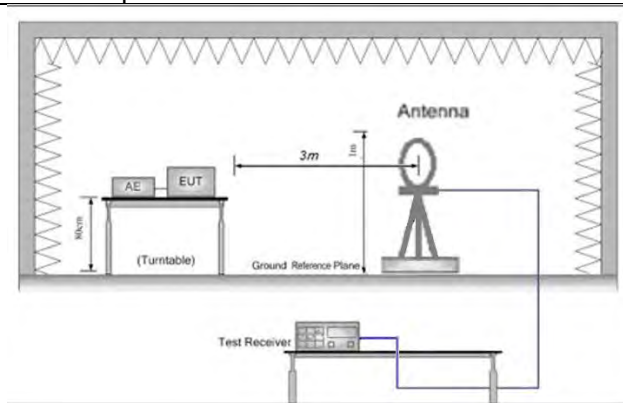


Figure 1. Below 30MHz

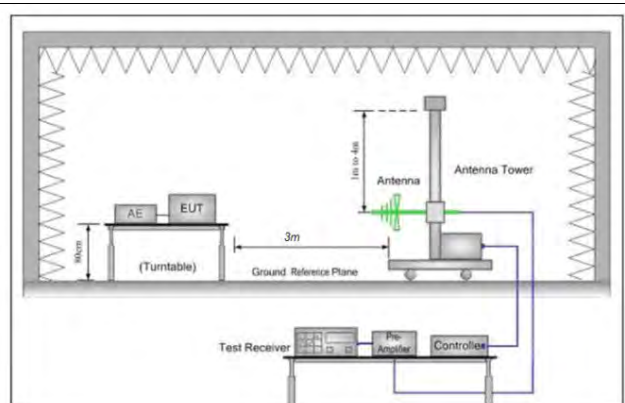


Figure 2. 30MHz to 1GHz



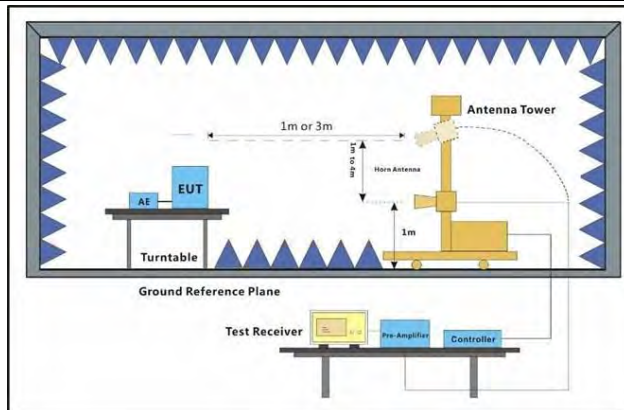


Figure 3. Above 1 GHz

<p>Test Procedure:</p>	<ol style="list-style-type: none"> For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz). The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. Test the EUT in the lowest channel, the middle channel, the Highest channel. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the Y axis positioning which it is worse case. Repeat above procedures until all frequencies measured was complete. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.
<p>Test Configuration:</p>	<p>Measurements below 30MHz</p> <ul style="list-style-type: none"> • RBW = 10 kHz • VBW = 30 kHz



	<ul style="list-style-type: none"> • Detector = Peak & Average & Quasi-peak • Trace mode = max hold <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	



4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10-2020 Section 11.12		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value

Test Setup:

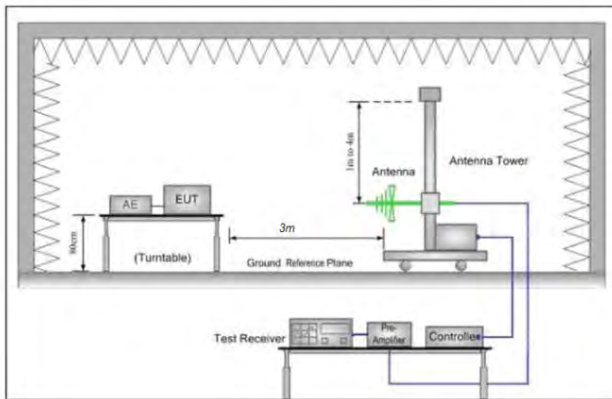


Figure 1. 30MHz to 1GHz

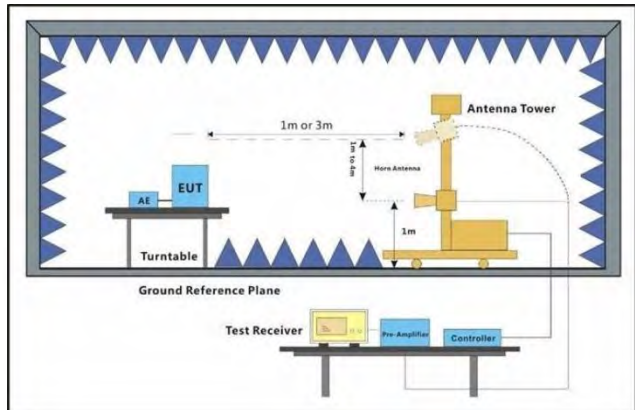


Figure 2. Above 1 GHz

Test Procedure:

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified



	<p>Bandwidth with Maximum Hold Mode.</p> <p>g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</p> <p>h. Test the EUT in the lowest channel , the Highest channel</p> <p>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the Y axis positioning which it is worse case.</p> <p>j. Repeat above procedures until all frequencies measured was complete.</p>
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	<p>Transmitting with GFSK modulation. Charge + Transmitting mode.</p>
Final Test Mode:	<p>Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode. Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	



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5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$ GHz
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 0.2\%$
4	RF conducted power	± 0.21 dB
5	RF power density	± 2.84 dB
6	Conducted Spurious emissions	± 0.75 dB
7	Conduction Emission	± 3.0 dB (150kHz to 30MHz)
8	Radiated Emission	± 4.6 dB (9kHz to 30MHz)
		± 4.9 dB (30MHz to 1GHz)
		± 4.9 dB (1GHz to 6GHz)
		± 4.7 dB (6GHz to 18GHz)
		± 5.26 dB (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.



6 Equipment List

RF Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
MXA signal analyzer	Agilent	N9020A	XAW01-06-07	2023/02/16	2024/02/15
MXG vector signal Generator	Agilent	N5182B	XAW01-07-16	2023/02/16	2024/02/15
Measurement Software	Tonscend	JS1120-3 (3.2.18)	XAW02-14-01	NCR	NCR
RF control unit	Tonscend	JS0806-2	XAW03-37-01	NCR	NCR
Power Meter	Anritsu	ML2495A	XAW01-25-03	2023/02/16	2024/02/15
Power Supply	Agilent	66311B	XAW01-17-01	2023/02/16	2024/02/15
Temperature and humidity meter	MingGao	T809	XAW01-01-16	2022/09/18	2023/09/17

CE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	XAW04-03-01	N/A	N/A
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2022/09/08	2023/09/07
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2022/06/30	2023/06/29
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2022/09/18	2023/09/17
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-07-01	NCR	NCR
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2023/02/16	2024/02/15
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-02	2022/06/30	2023/06/29



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RSE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/d)	Cal. Due date (yyyy/mm/d)
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2021/09/09	2024/09/08
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2023/02/16	2024/02/15
Spectrum Analyzer	ROHDE &SCHWARZ	FSV3044	XAW01-13-05	2022/05/24	2023/05/23
Test receiver	ROHDE &SCHWARZ	ESR	XAW01-08-01	2022/09/08	2023/09/07
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2022/07/28	2024/07/27
Receiving antenna(1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2022/07/28	2024/07/27
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2022/07/23	2024/07/22
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP9K3G32	XAW01-41-01	2022/05/24	2023/05/23
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2022/09/14	2023/09/13
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2022/09/14	2023/09/13
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2022/09/14	2023/09/13
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2022/09/18	2023/09/17
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2023/02/16	2024/02/15
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-05-01	NCR	NCR
Loop Antenna	Schwarzbeck	FMZB 1519B	XAW01-48-02	2022/05/26	2023/05/25



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant2	2402	0.684	2401.660	2402.344	0.5	PASS
		2440	0.712	2439.640	2440.352	0.5	PASS
		2480	0.736	2479.632	2480.368	0.5	PASS
BLE_2M	Ant2	2402	1.116	2401.440	2402.556	0.5	PASS
		2440	1.212	2439.372	2440.584	0.5	PASS
		2480	1.316	2479.360	2480.676	0.5	PASS



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Test Graphs



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BLE_1M_Ant2_2480



BLE_2M_Ant2_2402



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BLE_2M_Ant2_2440



BLE_2M_Ant2_2480



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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
BLE_1M	Ant2	2402	1.0375	2401.4889	2402.5264	Reporting only
		2440	1.0347	2439.4862	2440.5209	
		2480	1.0402	2479.4850	2480.5252	
BLE_2M	Ant2	2402	2.0925	2400.9749	2403.0674	
		2440	2.0726	2438.9784	2441.0510	
		2480	2.0802	2478.9689	2481.0491	



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Test Graphs



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BLE_1M_Ant2_2480



BLE_2M_Ant2_2402



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BLE_2M_Ant2_2440



BLE_2M_Ant2_2480



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**Maximum conducted output power
 Test Result Peak**

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant2	2402	-2.96	≤30	PASS
		2440	-1.32	≤30	PASS
		2480	-2.46	≤30	PASS
BLE_2M	Ant2	2402	-2.95	≤30	PASS
		2440	-1.32	≤30	PASS
		2480	-2.44	≤30	PASS



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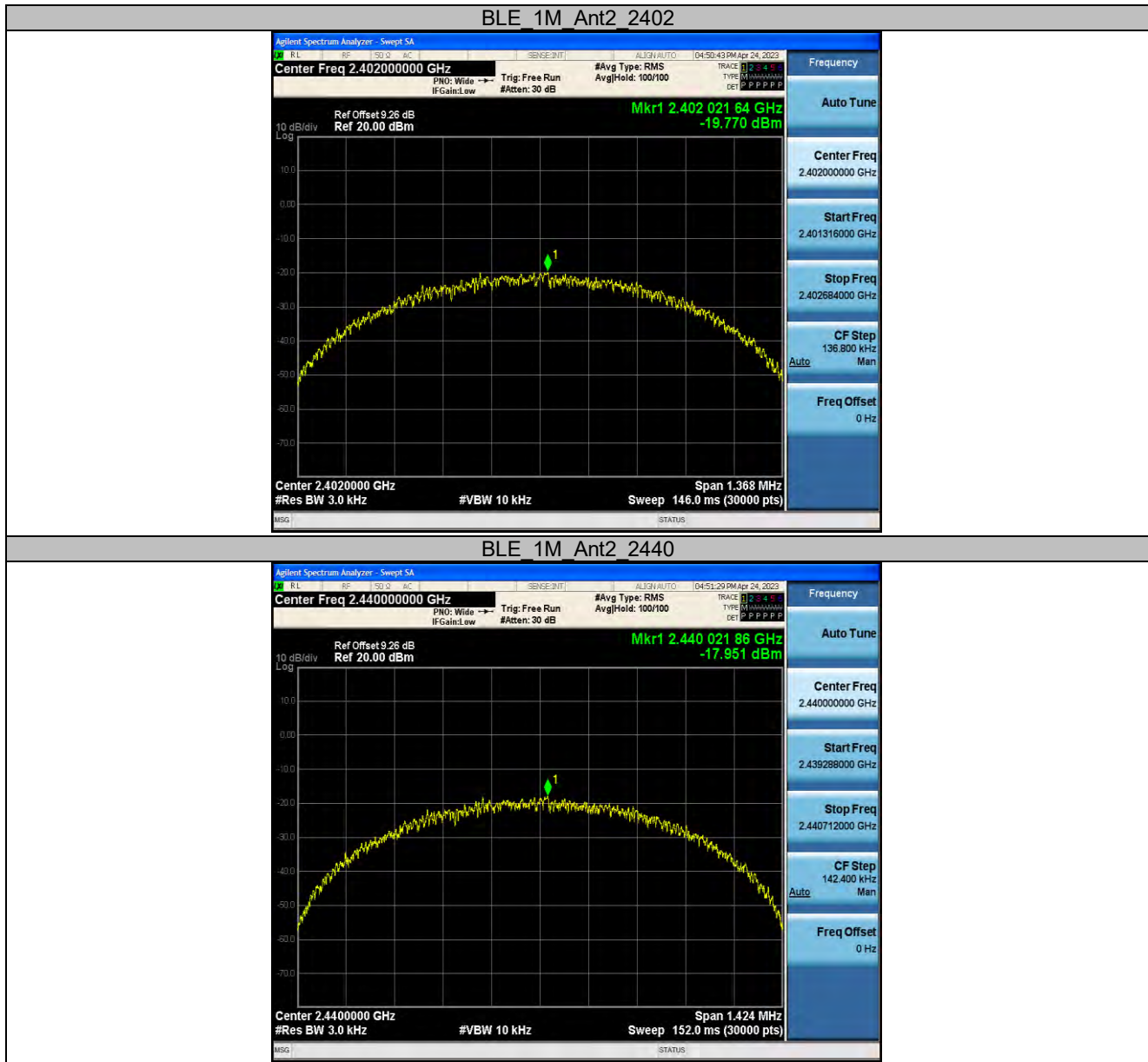
**Maximum power spectral density
 Test Result**

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant2	2402	-19.77	≤8.00	PASS
		2440	-17.95	≤8.00	PASS
		2480	-18.43	≤8.00	PASS
BLE_2M	Ant2	2402	-22.1	≤8.00	PASS
		2440	-20.38	≤8.00	PASS
		2480	-20.83	≤8.00	PASS



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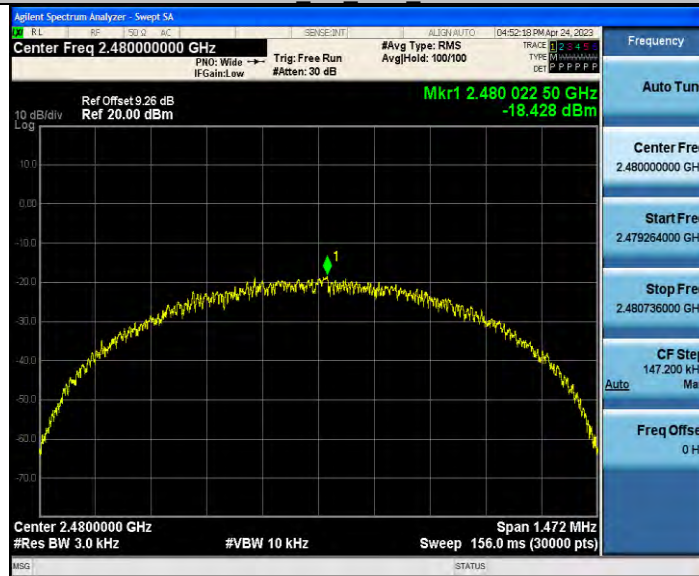
Test Graphs



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BLE 1M Ant2 2480



BLE 2M Ant2 2402



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BLE 2M Ant2 2440



BLE 2M Ant2 2480



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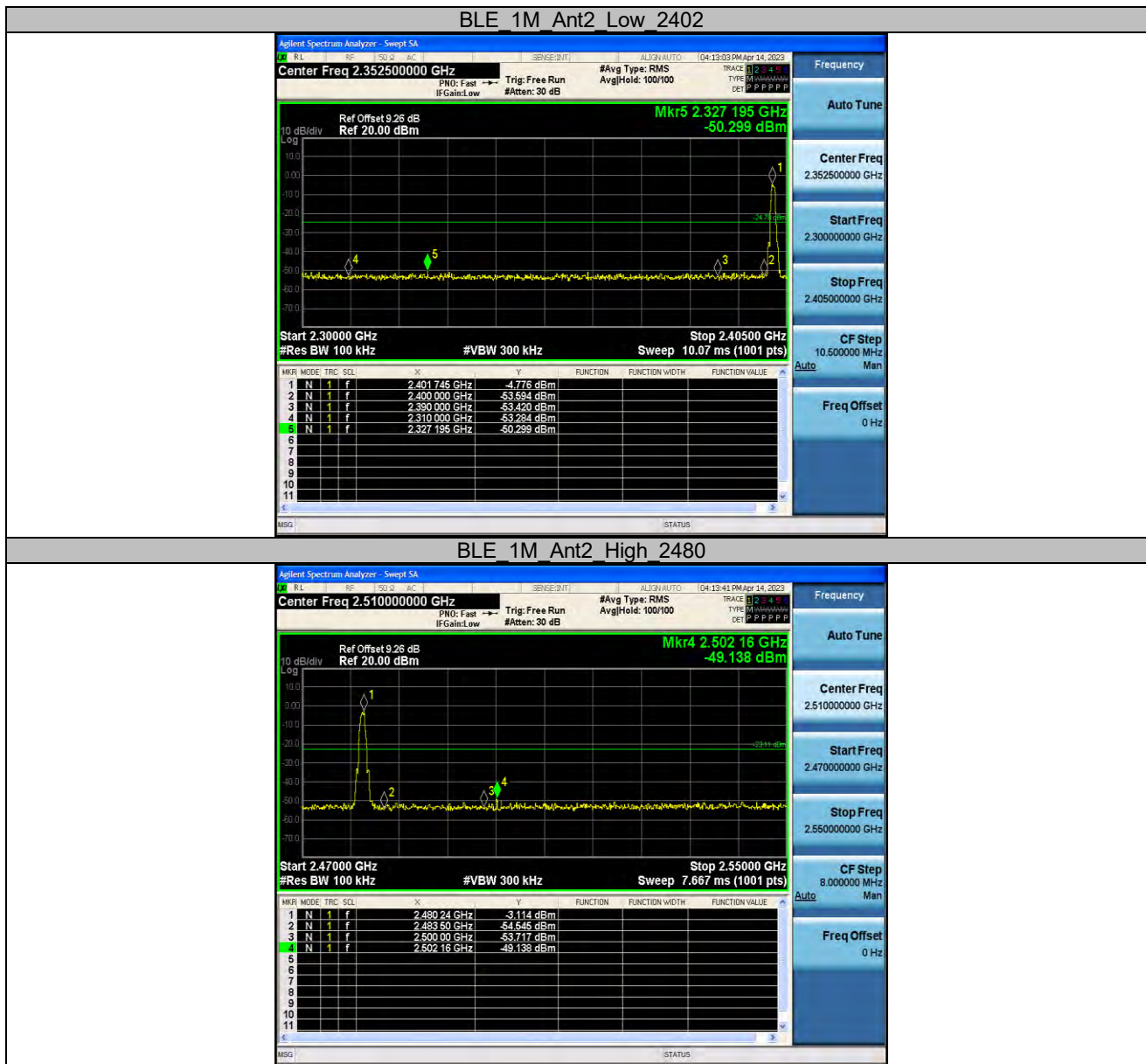
Band edge measurements
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant2	Low	2402	-4.78	-50.3	≤-24.78	PASS
		High	2480	-3.11	-49.14	≤-23.11	PASS
BLE_2M	Ant2	Low	2402	-6.71	-36.13	≤-26.71	PASS
		High	2480	-5.27	-49.95	≤-25.27	PASS



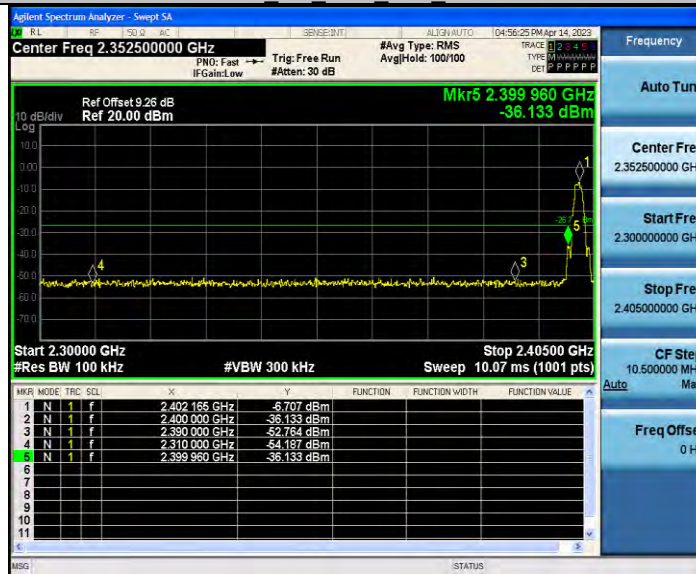
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Test Graphs

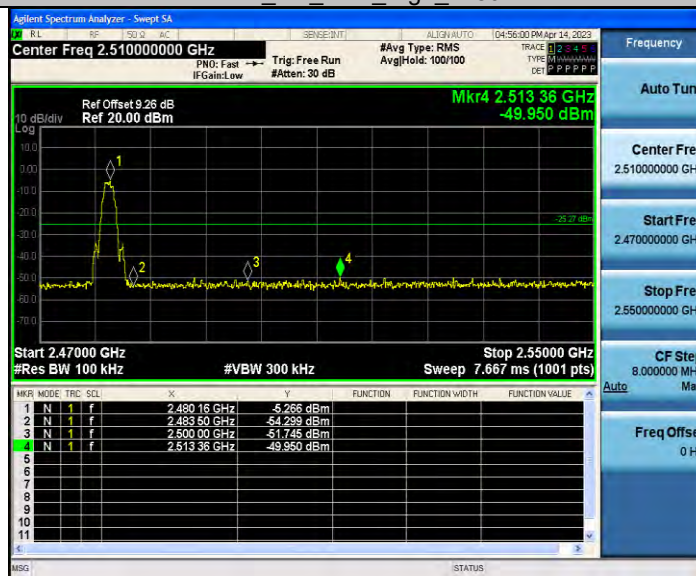


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BLE 2M Ant2 Low 2402



BLE_2M_Ant2_High_2480



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Conducted Spurious Emission Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant2	2402	Reference	-5.00	-5.00	---	PASS
			30~1000	-5.00	-58.58	≤-25	PASS
			1000~26500	-5.00	-46.03	≤-25	PASS
		2440	Reference	-3.52	-3.52	---	PASS
			30~1000	-3.52	-60.28	≤-23.52	PASS
			1000~26500	-3.52	-45.88	≤-23.52	PASS
		2480	Reference	-3.55	-3.55	---	PASS
			30~1000	-3.55	-60	≤-23.55	PASS
			1000~26500	-3.55	-45.87	≤-23.55	PASS
BLE_2M	Ant2	2402	Reference	-6.82	-6.82	---	PASS
			30~1000	-6.82	-60.11	≤-26.82	PASS
			1000~26500	-6.82	-44.98	≤-26.82	PASS
		2440	Reference	-4.74	-4.74	---	PASS
			30~1000	-4.74	-60.08	≤-24.74	PASS
			1000~26500	-4.74	-45.97	≤-24.74	PASS
		2480	Reference	-6.79	-6.79	---	PASS
			30~1000	-6.79	-60.24	≤-26.79	PASS
			1000~26500	-6.79	-45.37	≤-26.79	PASS

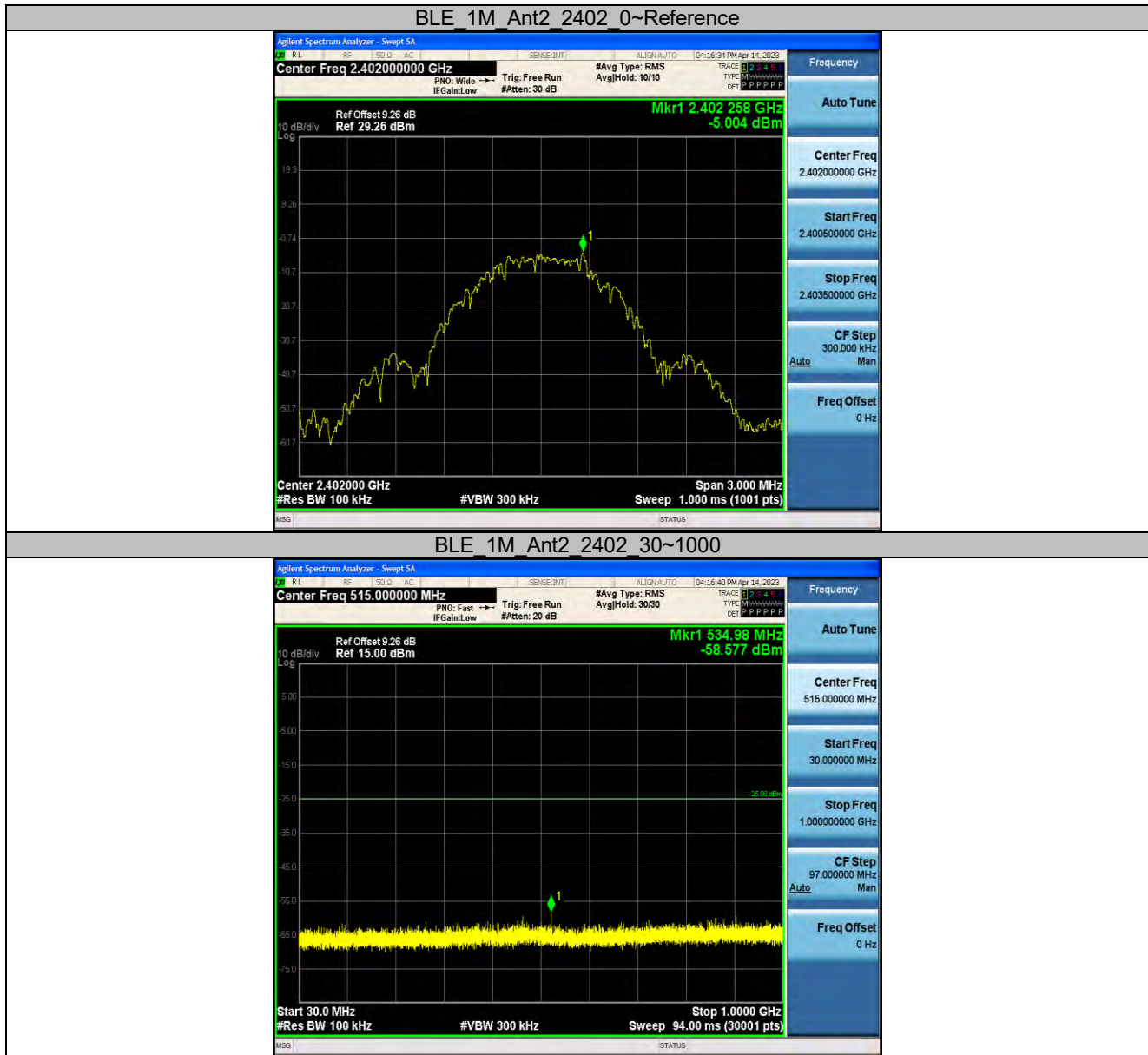


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Test Graphs



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BLE 1M Ant2 2402 1000~26500



BLE 1M Ant2 2440 0~Reference



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BLE 1M Ant2 2440 30~1000



BLE 1M Ant2 2440 1000~26500



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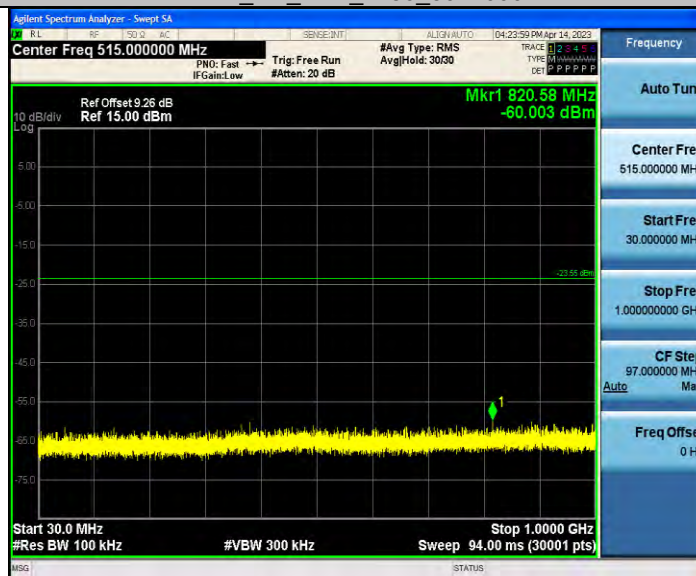
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BLE 1M Ant2 2480 0~Reference



BLE 1M Ant2 2480 30~1000



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BLE 1M Ant2 2480 1000~26500



BLE 2M Ant2 2402_0~Reference



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BLE 2M Ant2 2402_30~1000



BLE 2M Ant2 2402_1000~26500



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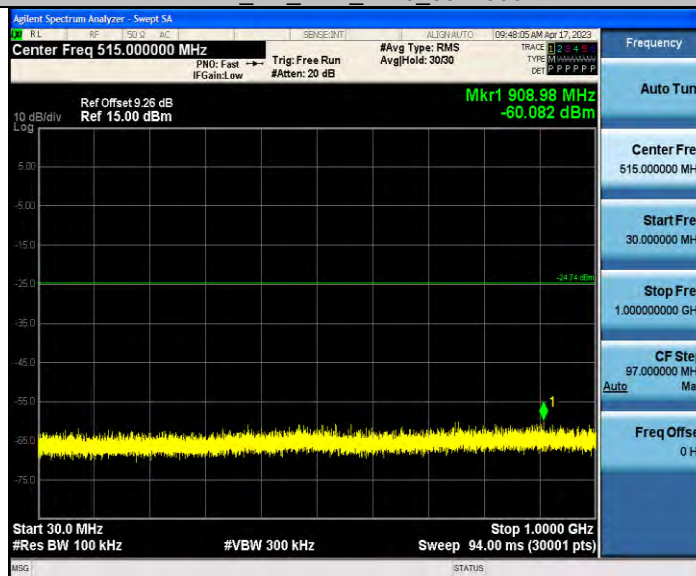
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BLE 2M Ant2 2440 0~Reference



BLE_2M_Ant2_2440_30~1000



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BLE 2M Ant2 2440 1000~26500



BLE 2M Ant2 2480 0~Reference



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BLE 2M Ant2 2480 30~1000



BLE 2M Ant2 2480 1000~26500



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Report No.: XEWM2303000130RG02
 Rev.: 01
 Page: 58 of 91

**Duty Cycle
 Test Result**

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant2	2402	2.13	2.50	85.20	0.70
		2440	2.12	2.50	84.80	0.72
		2480	2.12	2.50	84.80	0.72
BLE_2M	Ant2	2402	1.07	1.87	57.22	2.42
		2440	1.08	1.88	57.45	2.41
		2480	1.07	1.87	57.22	2.42

Note:

Radiated Emission Average VBW = 1 / T

TestMode	T[ms]	Period[ms]	Duty Cycle[%]	1/T[kHz]	VBW Setting
BLE_1M	2.13	2.5	85.20	0.46948	0.51KHz
BLE_2M	1.07	1.87	57.22	0.93458	1KHz

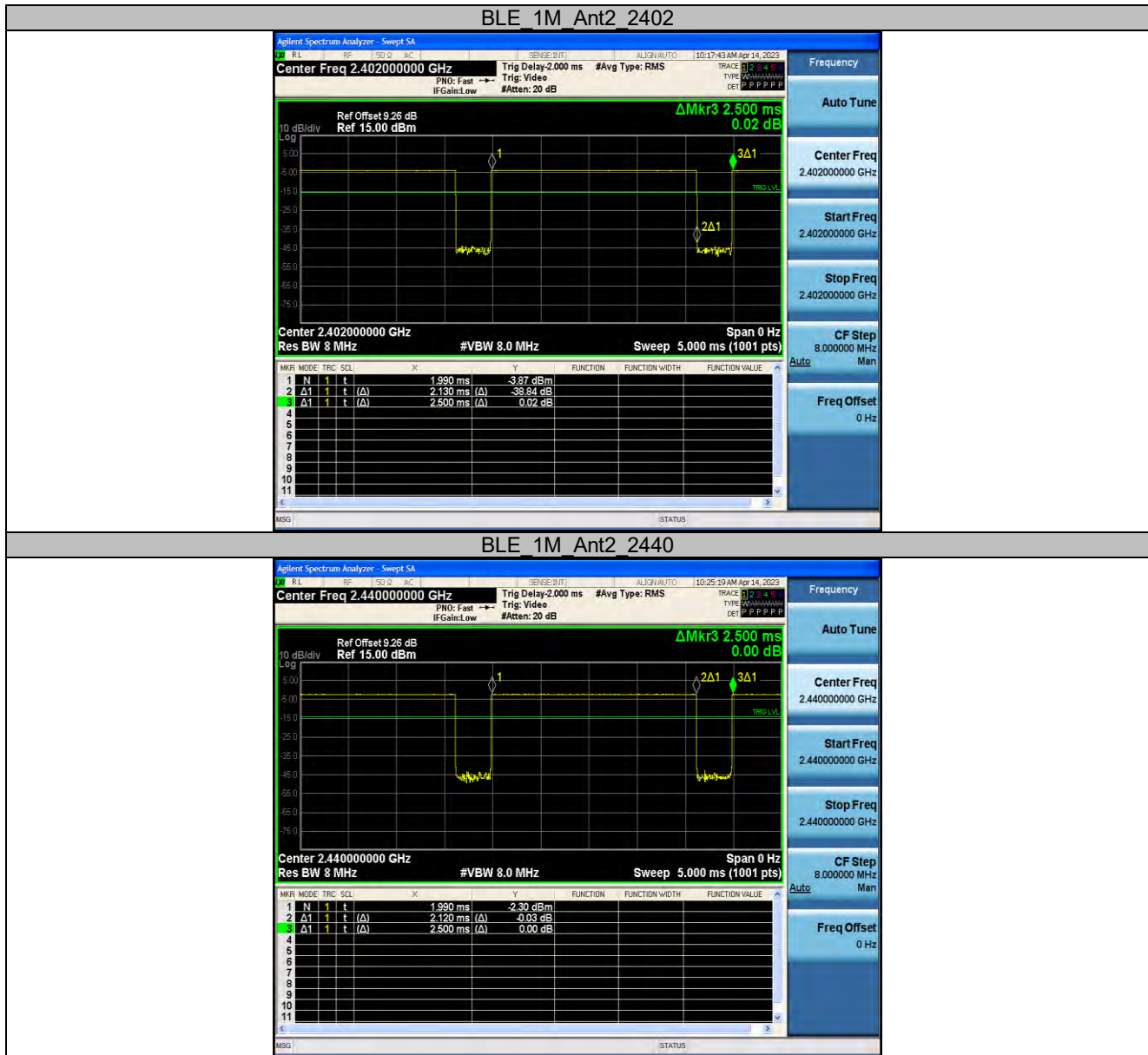


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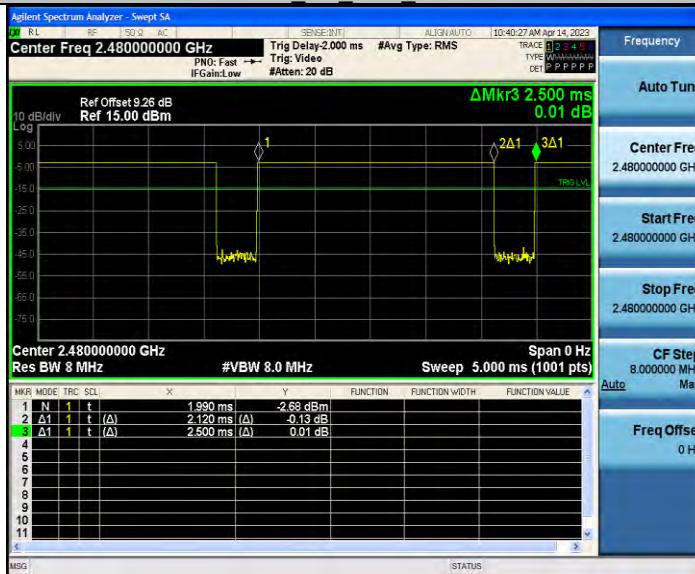
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Test Graphs



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BLE_1M_Ant2_2480



BLE_2M_Ant2_2402



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BLE_2M_Ant2_2440

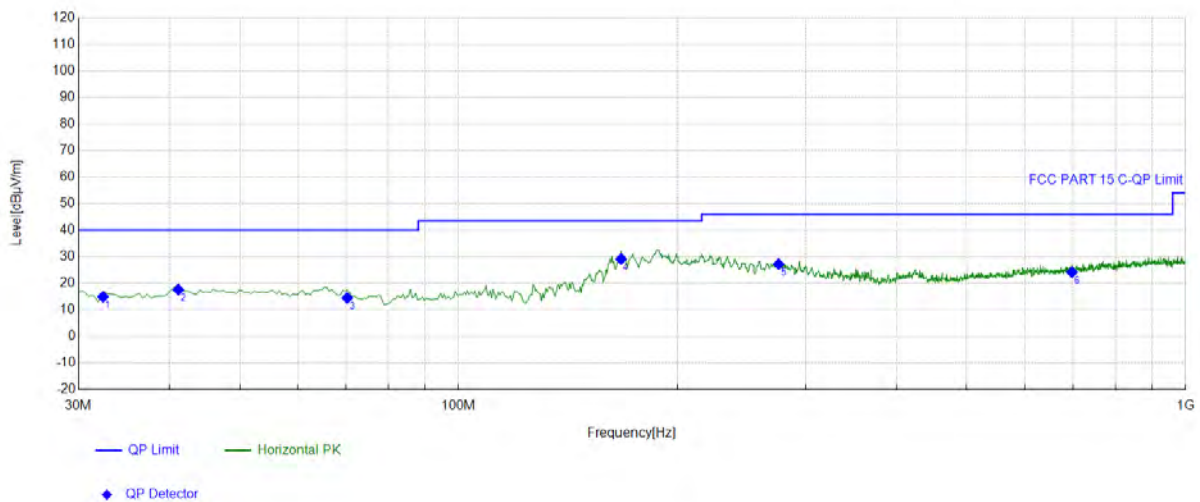


BLE_2M_Ant2_2480



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Radiated Spurious Emissions
Radiated emission below 1GHz
Worst case Mode: BLE_1M_Channel 0



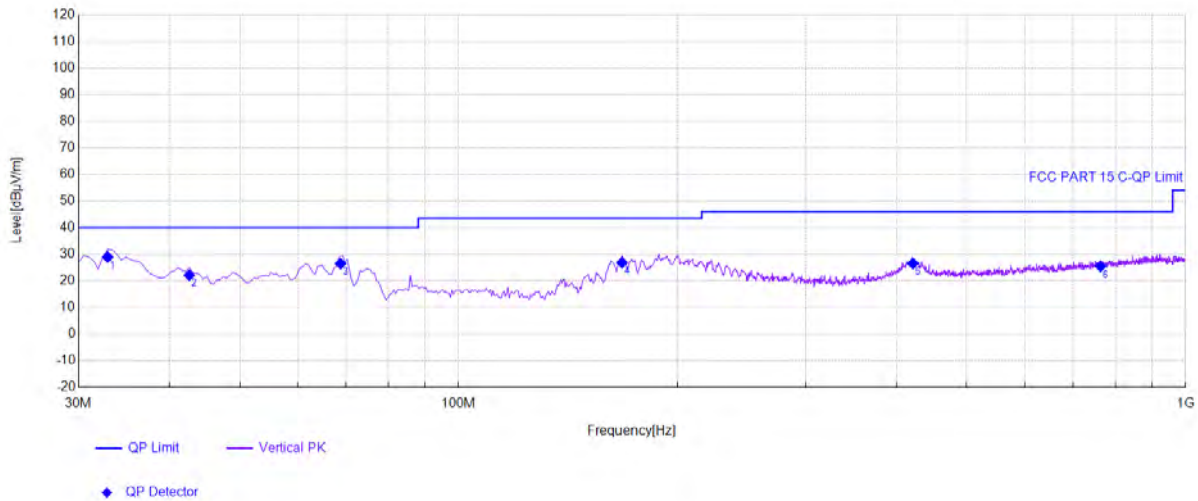
Data List										
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBµV]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	32.4262	11.24	-28.01	31.67	14.90	40.00	25.10	183	252	Horizontal
2	41.1606	13.42	-27.94	32.08	17.56	40.00	22.44	279	300	Horizontal
3	70.2751	9.47	-27.34	32.34	14.47	40.00	25.53	352	84	Horizontal
4	167.3237	9.00	-26.49	46.6	29.11	43.50	14.39	227	212	Horizontal
5	275.5328	12.90	-25.99	40.28	27.19	46.00	18.81	182	106	Horizontal
6	697.6938	19.59	-24.24	28.8	24.15	46.00	21.85	362	25	Horizontal



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Data List										
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dBµV]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	32.9115	11.29	-28.01	45.64	28.92	40.00	11.08	138	67	Vertical
2	42.6163	13.62	-27.90	36.38	22.10	40.00	17.90	265	360	Vertical
3	68.8194	10.17	-27.41	43.71	26.47	40.00	13.53	222	286	Vertical
4	167.8089	8.86	-26.49	44.47	26.84	43.50	16.66	333	330	Vertical
5	421.5908	16.07	-25.15	35.61	26.53	46.00	19.47	360	327	Vertical
6	763.6868	20.62	-24.10	28.94	25.46	46.00	20.54	241	354	Vertical

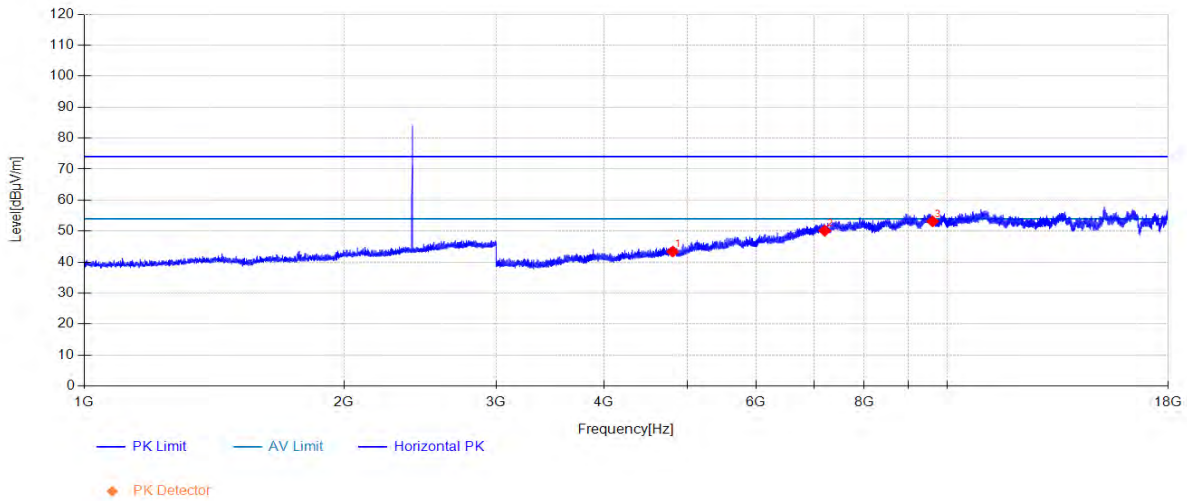
Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier gain. The basic equation with a sample calculation is as follows:
 Value = Reading(dBµV) + AF(dB/m) + Factor(dB):
 AF = Antenna Factor(dB/m)
 Factor = Cable Factor(dB) - Pre-amplifier gain(dB)
 Margin = Limit(dBµV/m) – Value(dBµV/m)
- All channels have been tested, but only the worst case data displayed in this report.



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Transmitter emission Above 1GHz
BLE_1M_Channel 0



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	55.58	30.78	-42.95	43.41	74.00	30.59	198	272	Horizontal
2	7206	52.28	36.56	-38.71	50.13	74.00	23.87	179	256	Horizontal
3	9608	50.99	37.85	-35.70	53.14	74.00	20.86	165	348	Horizontal

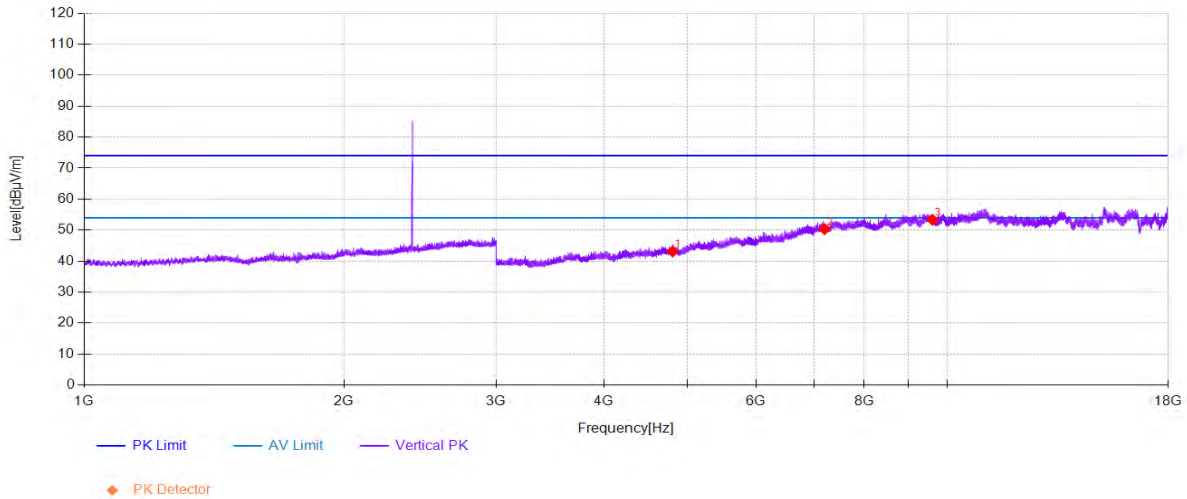


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BLE_1M_Channel 0



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	55.30	30.78	-42.95	43.13	74.00	30.87	298	201	Vertical
2	7206	52.47	36.56	-38.71	50.32	74.00	23.68	306	253	Vertical
3	9608	51.16	37.85	-35.70	53.31	74.00	20.69	349	213	Vertical

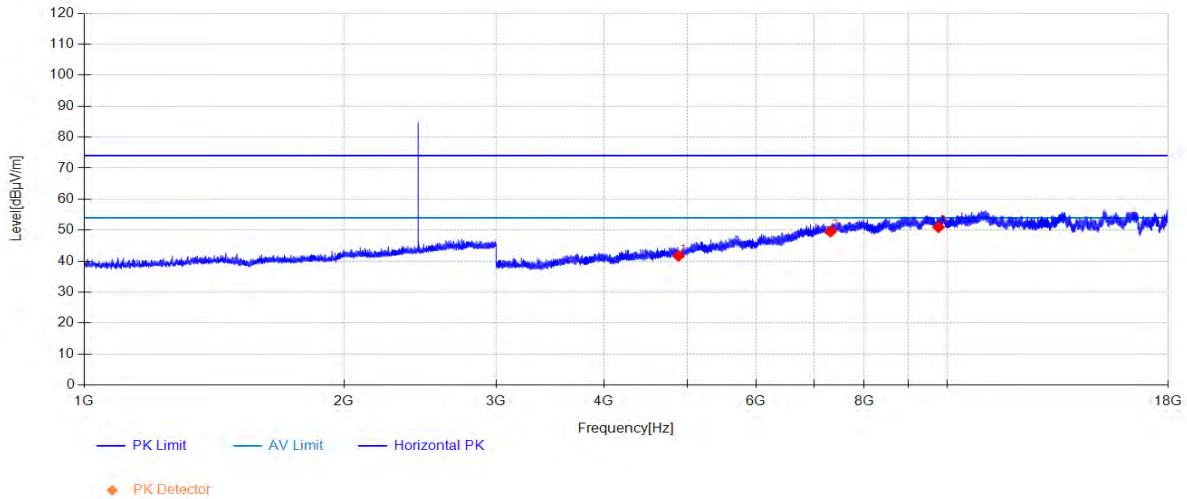


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BLE-1M_Channel 19



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880	53.79	30.78	-42.89	41.68	74.00	32.32	274	204	Horizontal
2	7320	51.86	36.44	-38.76	49.54	74.00	24.46	229	160	Horizontal
3	9760	48.59	38.34	-35.97	50.96	74.00	23.04	265	204	Horizontal

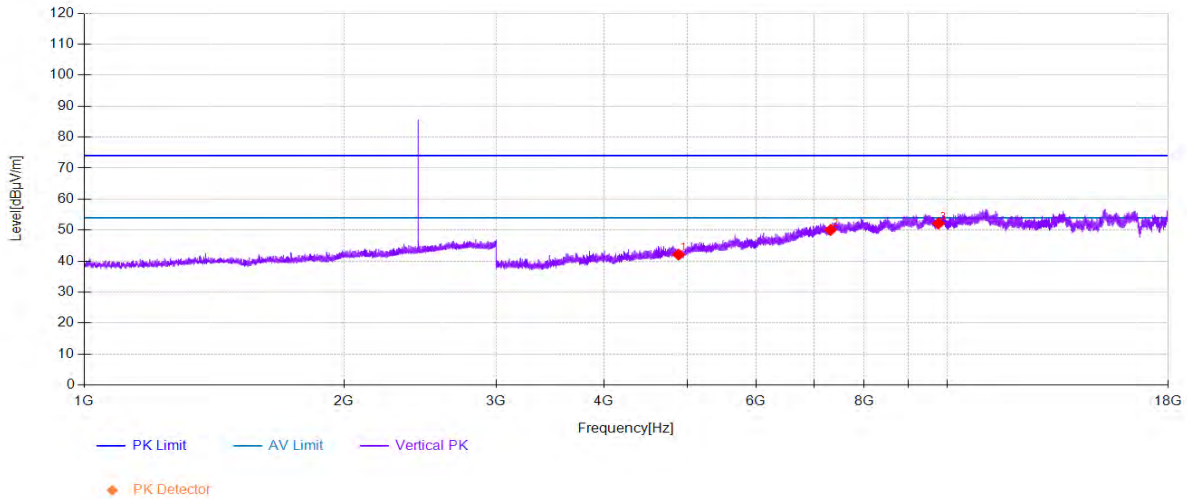


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BLE-1M_Channel 19



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880	54.21	30.78	-42.89	42.10	74.00	31.90	314	118	Vertical
2	7320	52.38	36.44	-38.76	50.06	74.00	23.94	352	286	Vertical
3	9760	49.78	38.34	-35.97	52.15	74.00	21.85	337	191	Vertical

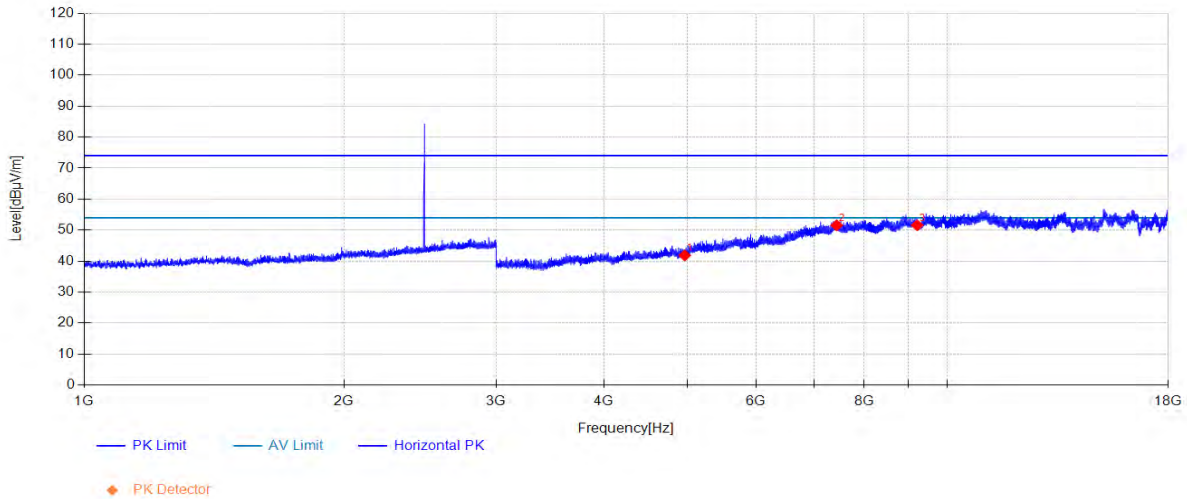


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BLE-1M_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	53.59	31.04	-42.78	41.85	74.00	32.15	257	213	Horizontal
2	7440	53.05	36.78	-38.28	51.55	74.00	22.45	263	330	Horizontal
3	9220	50.11	37.50	-36.04	51.57	74.00	22.43	268	266	Horizontal

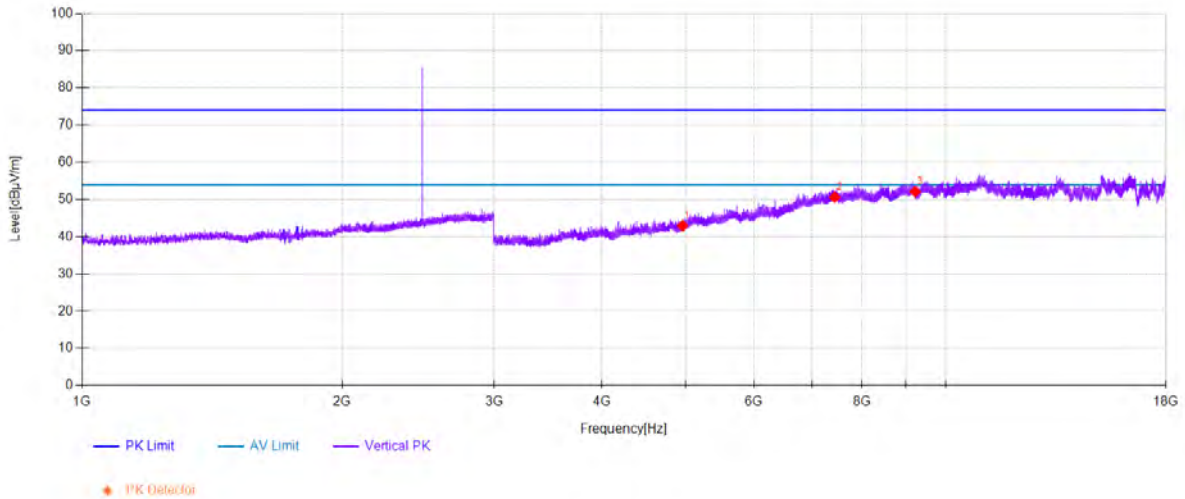


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BLE-1M_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	54.70	31.04	-42.78	42.96	74.00	31.04	358	288	Vertical
2	7440	52.11	36.78	-38.28	50.61	74.00	23.39	334	151	Vertical
3	9220	50.67	37.50	-36.04	52.13	74.00	21.87	326	256	Vertical

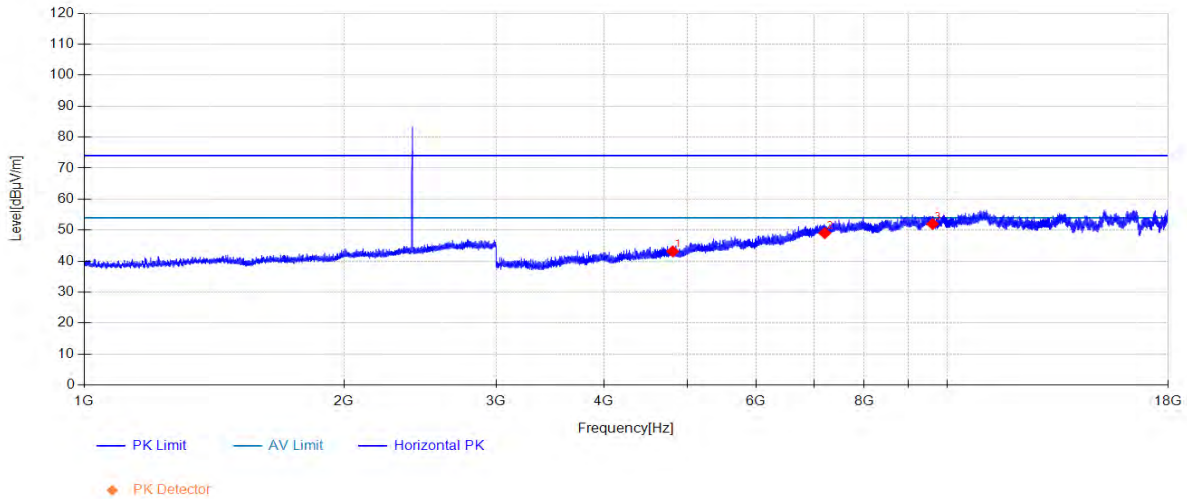


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BLE-2M_Channel 0



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	55.31	30.78	-42.95	43.14	74.00	30.86	236	114	Horizontal
2	7206	51.18	36.56	-38.71	49.03	74.00	24.97	252	248	Horizontal
3	9608	49.83	37.85	-35.70	51.98	74.00	22.02	214	114	Horizontal

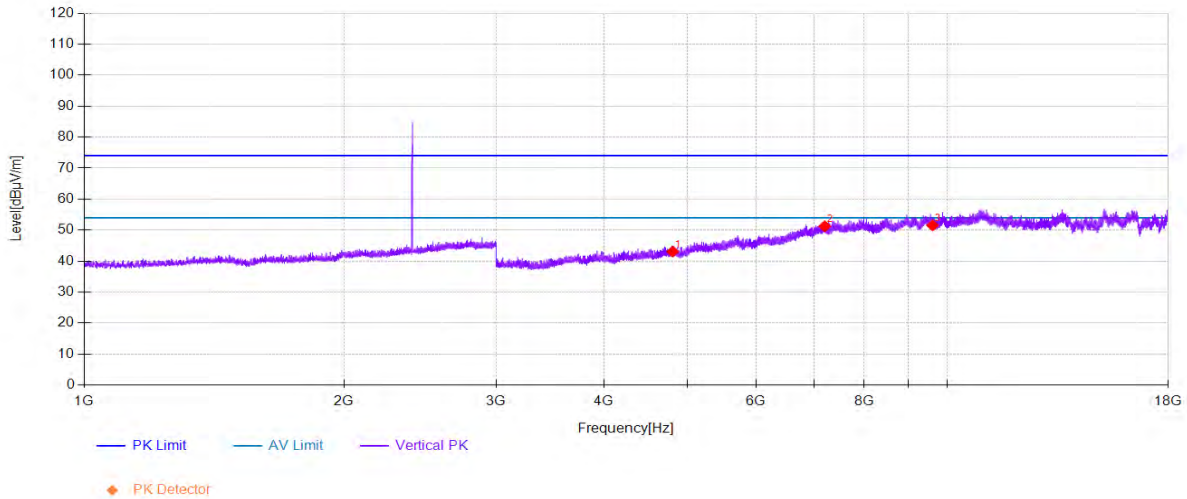


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BLE-2M_Channel 0



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	55.25	30.78	-42.95	43.08	74.00	30.92	324	329	Vertical
2	7206	53.41	36.56	-38.71	51.26	74.00	22.74	311	243	Vertical
3	9608	49.37	37.85	-35.70	51.52	74.00	22.48	336	117	Vertical

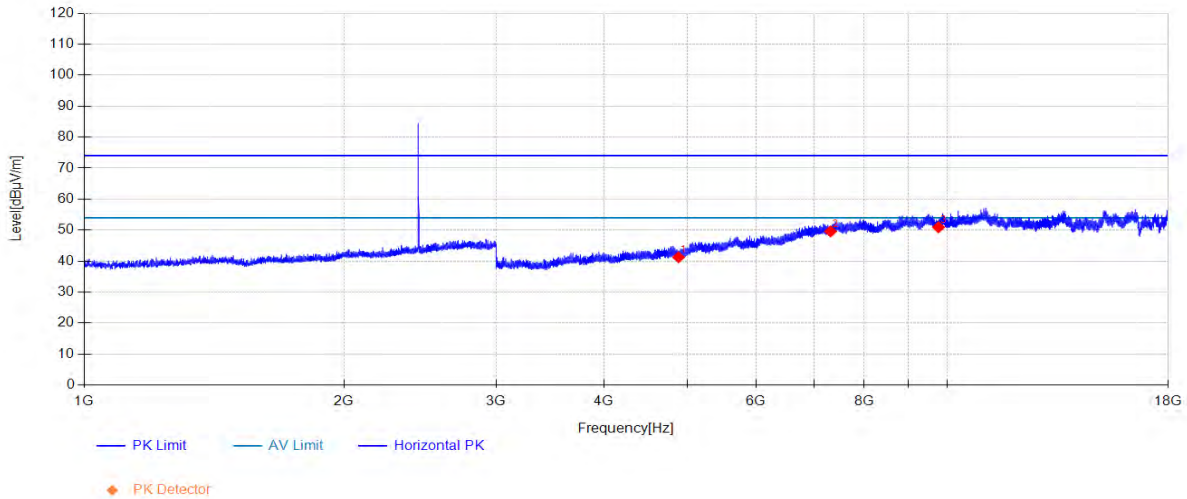


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BLE-2M_Channel 19



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880	53.36	30.78	-42.89	41.25	74.00	32.75	223	12	Horizontal
2	7320	51.91	36.44	-38.76	49.59	74.00	24.41	274	2	Horizontal
3	9760	48.57	38.34	-35.97	50.94	74.00	23.06	251	202	Horizontal

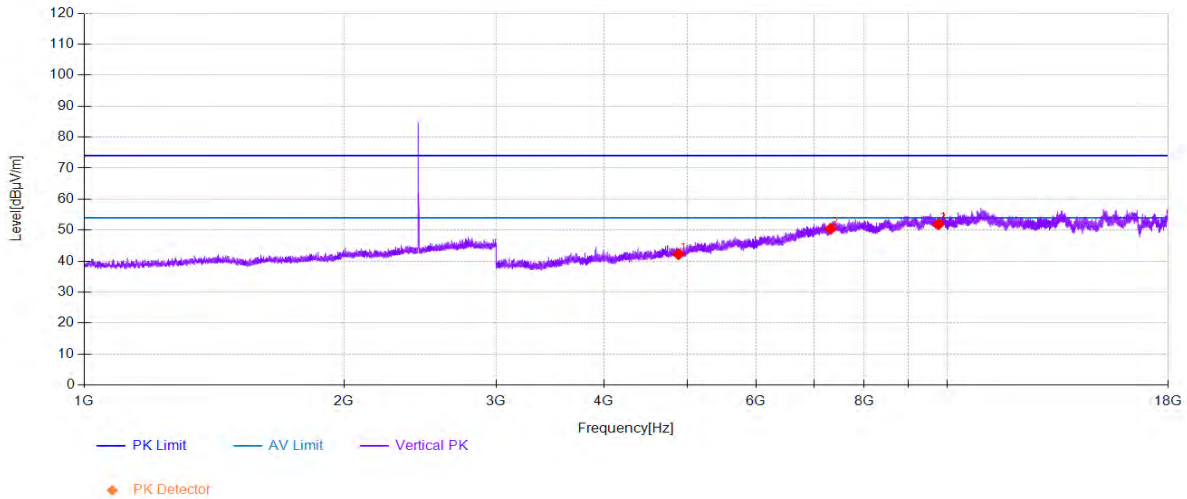


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BLE-2M_Channel 19



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880	54.34	30.78	-42.89	42.23	74.00	31.77	303	305	Vertical
2	7320	52.75	36.44	-38.76	50.43	74.00	23.57	297	53	Vertical
3	9760	49.53	38.34	-35.97	51.90	74.00	22.10	325	85	Vertical

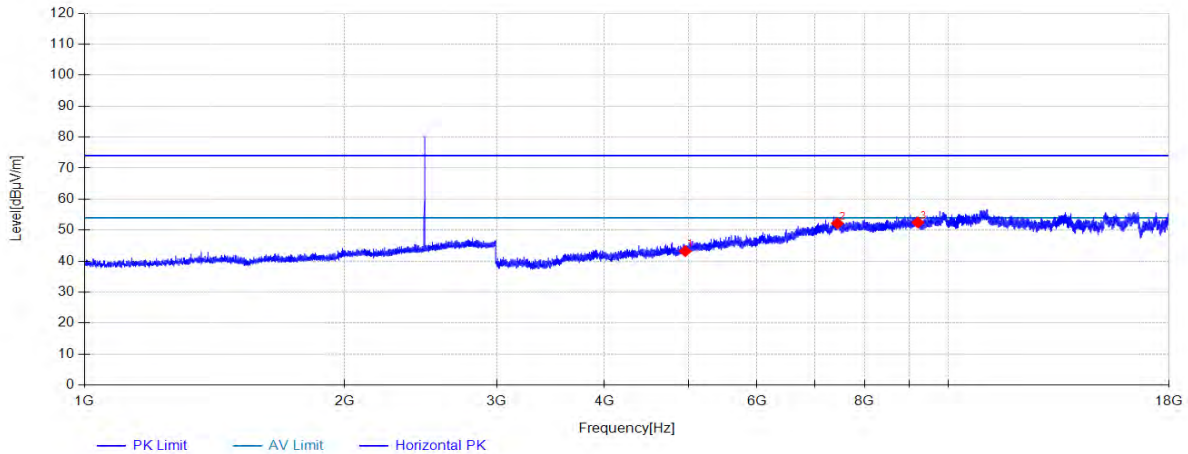


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BLE-2M_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	54.95	31.04	-42.78	43.21	74.00	30.79	245	27	Horizontal
2	7440	53.70	36.78	-38.28	52.20	74.00	21.80	187	102	Horizontal
3	9220	51.02	37.50	-36.04	52.48	74.00	21.52	236	102	Horizontal



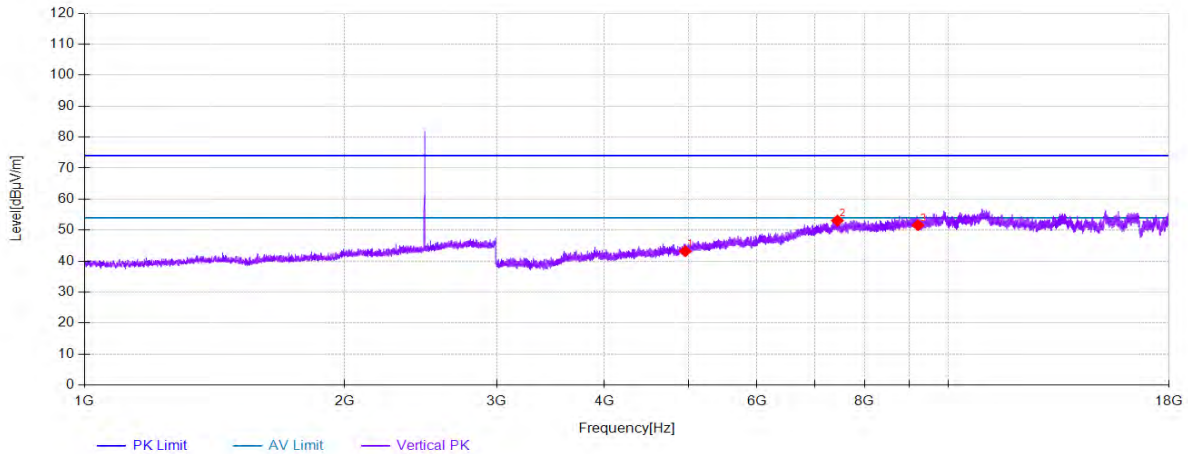
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BLE-2M_Channel 39



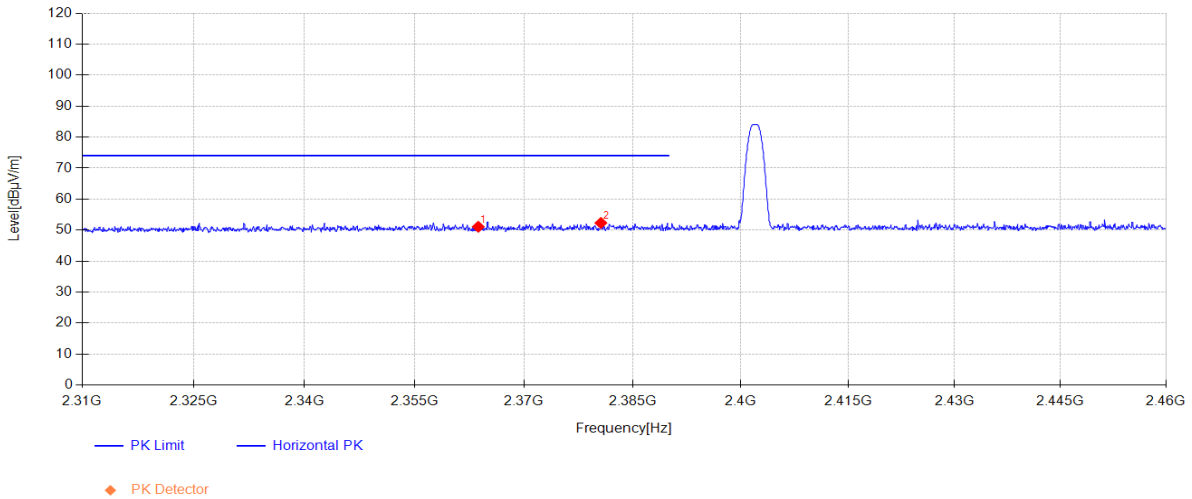
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1	4960	54.92	31.04	-42.78	43.18	74.00	30.82	254	69	Vertical
2	7440	54.60	36.78	-38.28	53.10	74.00	20.90	222	91	Vertical
3	9220	50.12	37.50	-36.04	51.58	74.00	22.42	178	58	Vertical

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:
 Level = Reading(dBµV) + AF(dB/m) + Factor(dB);
 AF = Antenna Factor(dB/m)
 Factor = Cable Factor(dB) - Preamplifier gain(dB)
 Margin = Limit(dBµV/m) – Level(dBµV/m)
- All channels have been tested, but only the worst case data displayed in this report.
- Both peak and average measured complies with the limit line, so test result is "PASS"



Restricted bands around fundamental frequency BLE_1M_Channel 0



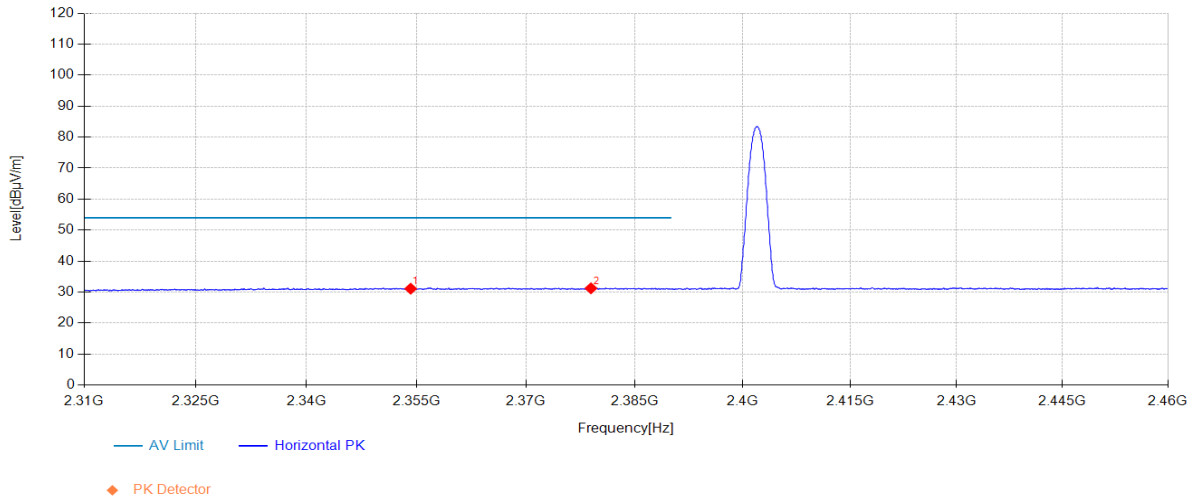
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1	2363.7269	46.59	27.55	-23.06	51.08	74.00	22.92	225	210	Horizontal
2	2380.6103	47.87	27.48	-23.03	52.32	74.00	21.68	225	210	Horizontal



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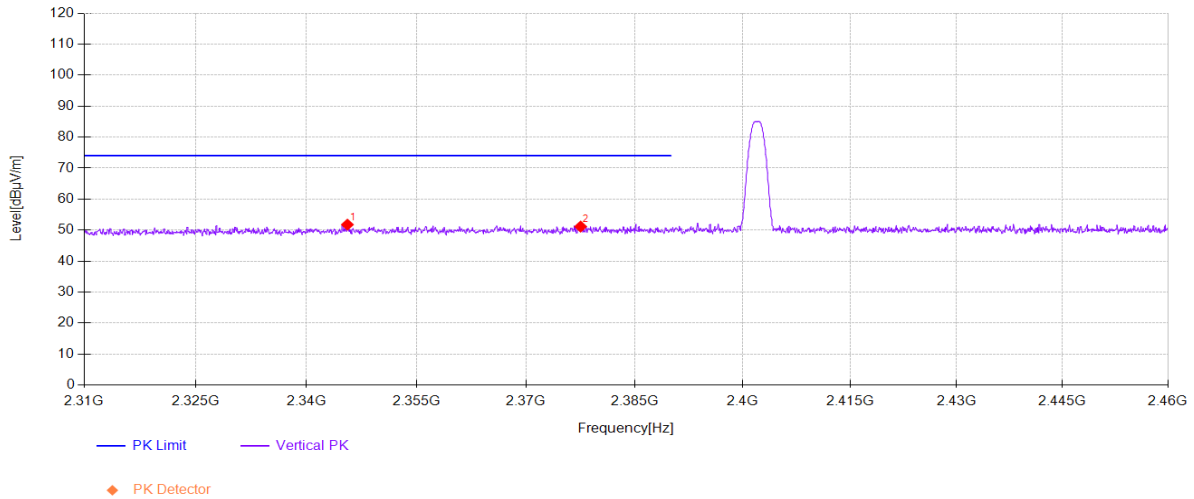
Data List										
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1	2354.1971	26.60	27.58	-23.07	31.11	54.00	22.89	225	210	Horizontal
2	2378.9595	26.79	27.48	-23.03	31.24	54.00	22.76	225	210	Horizontal



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BLE_1M_Channel 0

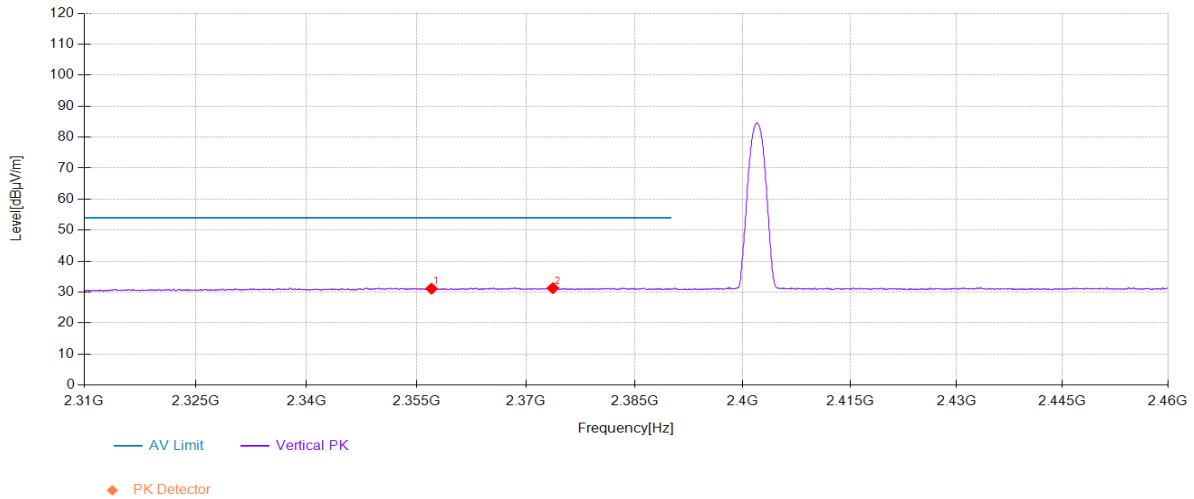


Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2345.5678	47.30	27.56	-23.09	51.77	74.00	22.23	330	236	Vertical
2	2377.5338	46.70	27.49	-23.04	51.15	74.00	22.85	330	236	Vertical



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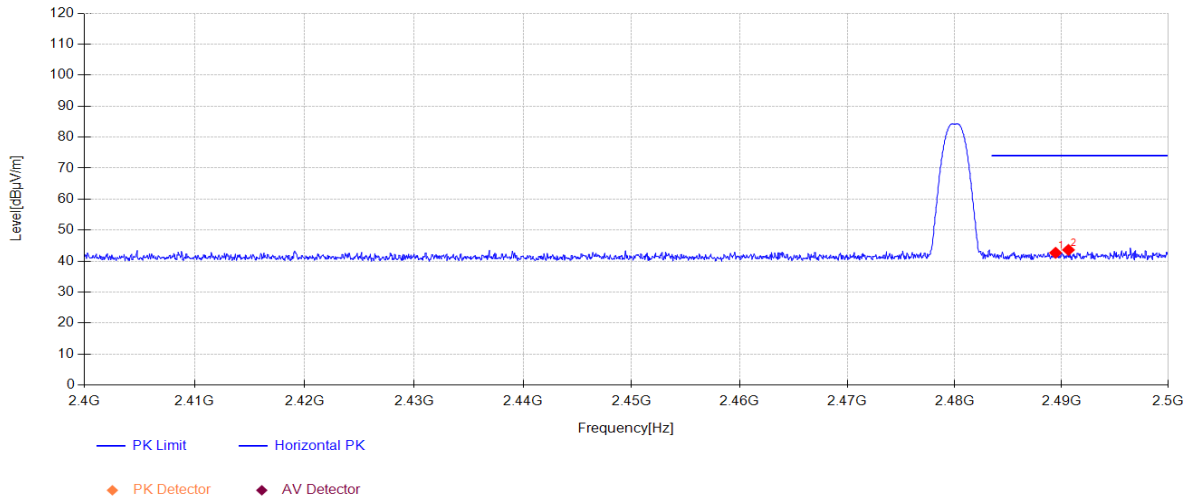
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1	2357.0485	26.61	27.57	-23.07	31.11	54.00	22.89	330	236	Vertical
2	2373.7069	26.81	27.51	-23.04	31.28	54.00	22.72	330	236	Vertical



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BLE-1M_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2489.4447	38.05	27.76	-23.13	42.68	74.00	31.32	237	211	Horizontal
2	2490.6453	38.99	27.76	-23.13	43.62	74.00	30.38	237	211	Horizontal

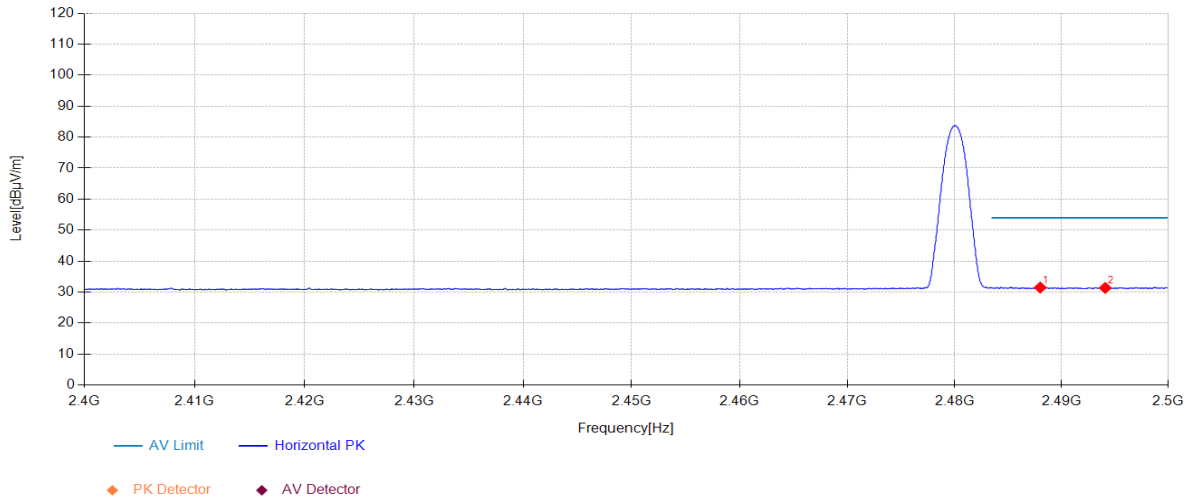


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BLE-1M_Channel 39

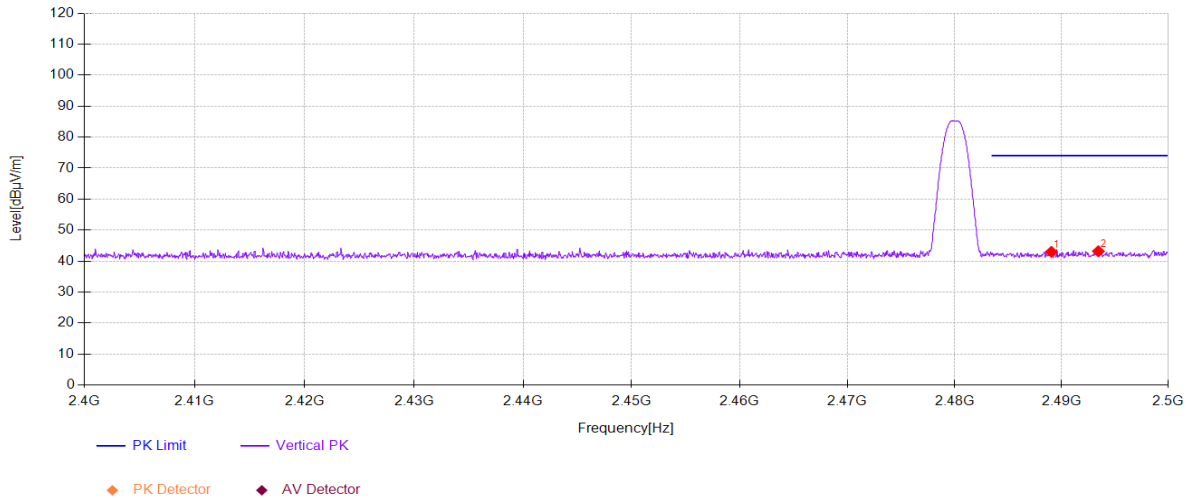


Data List										
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1	2487.994	26.85	27.75	-23.12	31.48	54.00	22.52	237	211	Horizontal
2	2494.097	26.72	27.78	-23.13	31.37	54.00	22.63	237	211	Horizontal



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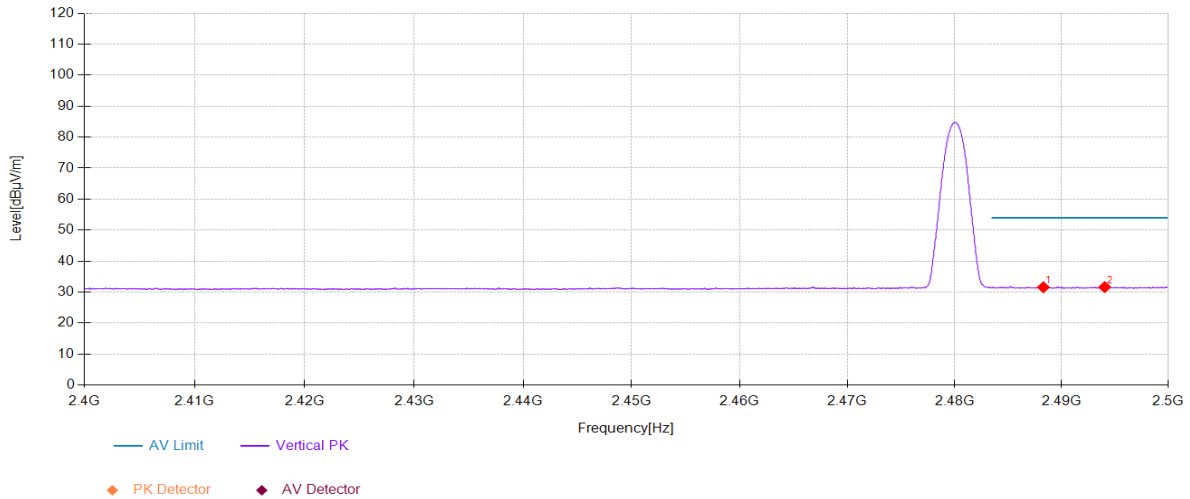


Data List										
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1	2489.0445	38.37	27.76	-23.12	43.01	74.00	30.99	312	207	Vertical
2	2493.4467	38.56	27.77	-23.13	43.20	74.00	30.80	312	207	Vertical



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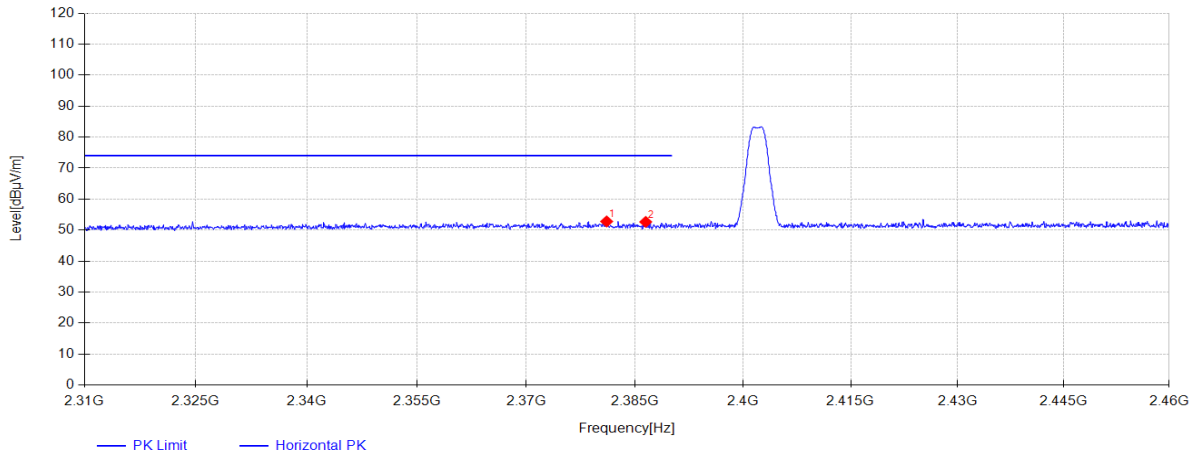


Data List										
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1	2488.2941	26.93	27.75	-23.12	31.56	54.00	22.44	312	207	Vertical
2	2494.047	26.97	27.78	-23.13	31.62	54.00	22.38	312	207	Vertical



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BLE-2M_Channel 0



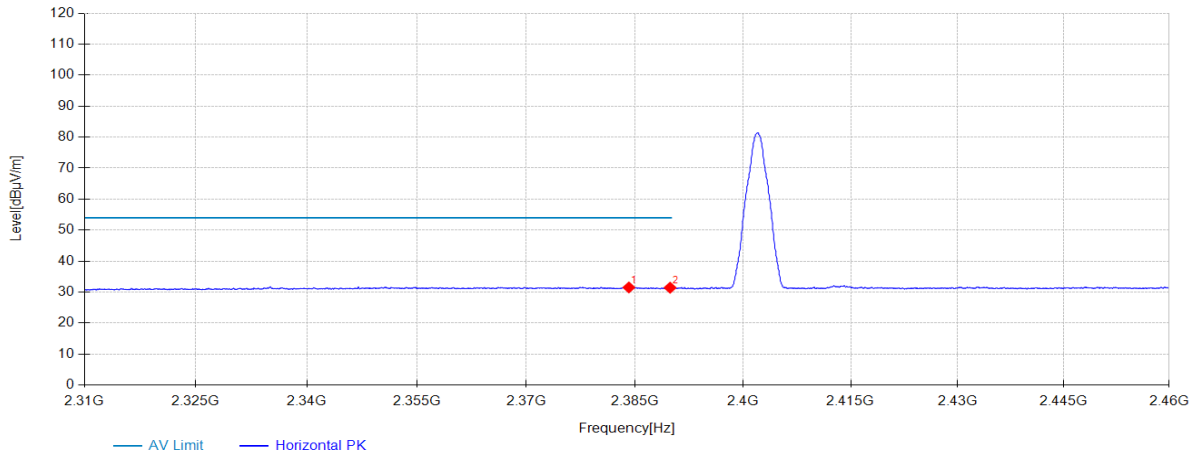
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NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2381.0605	48.34	27.48	-23.03	52.79	74.00	21.21	114	144	Horizontal
2	2386.4632	48.22	27.45	-23.02	52.65	74.00	21.35	114	144	Horizontal



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BLE-2M_Channel 0



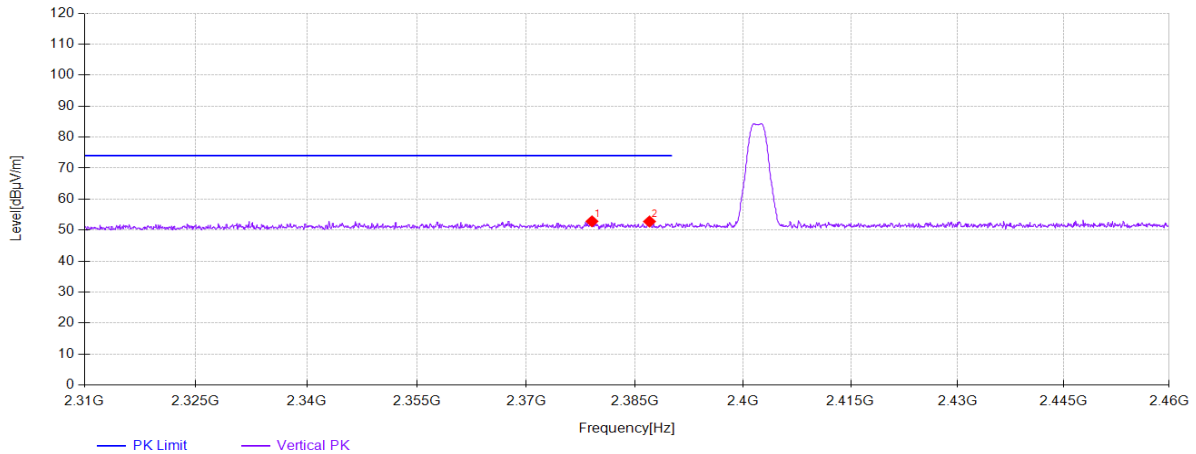
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.1371	27.09	27.46	-23.03	31.52	54.00	22.48	114	144	Horizontal
2	2389.8399	27.01	27.44	-23.02	31.43	54.00	22.57	114	144	Horizontal



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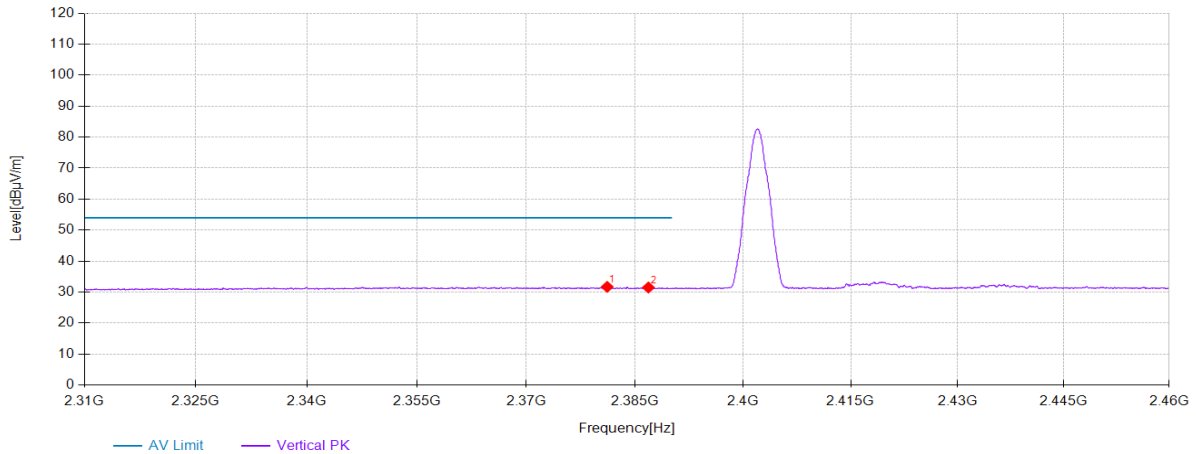


Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2379.0345	48.39	27.48	-23.03	52.84	74.00	21.16	180	240	Vertical
2	2386.9885	48.35	27.45	-23.02	52.78	74.00	21.22	180	240	Vertical



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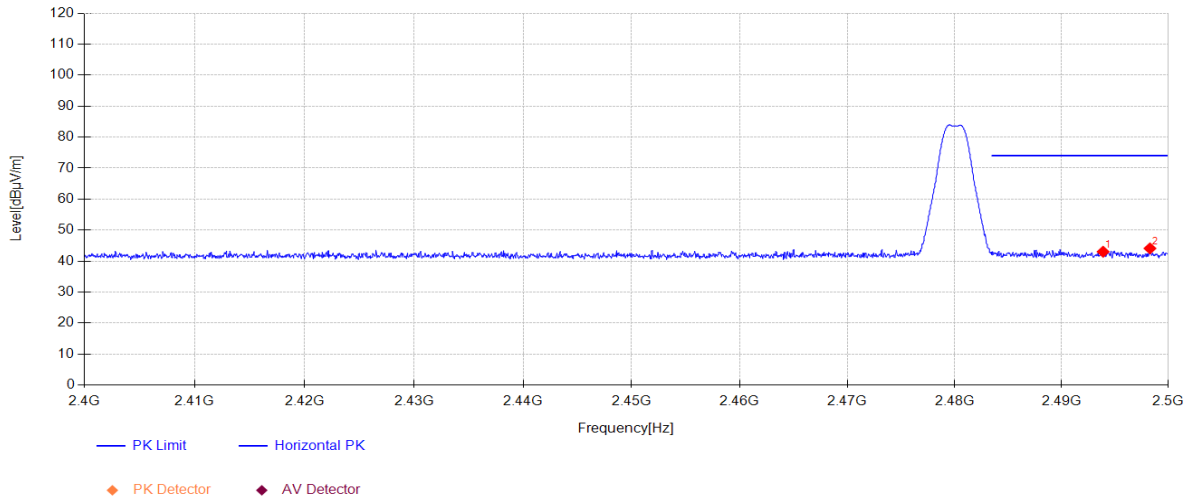
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2381.1356	27.26	27.48	-23.03	31.71	54.00	22.29	180	240	Vertical
2	2386.8384	27.07	27.45	-23.02	31.50	54.00	22.50	180	240	Vertical



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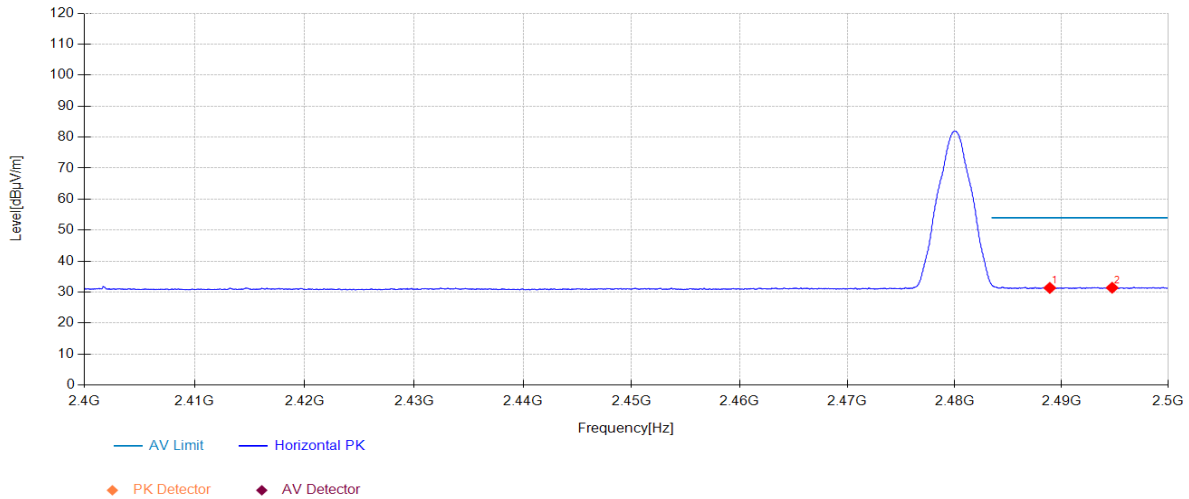


Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2493.8969	38.38	27.78	-23.13	43.03	74.00	30.97	214	206	Horizontal
2	2498.2992	39.45	27.79	-23.14	44.10	74.00	29.90	214	206	Horizontal



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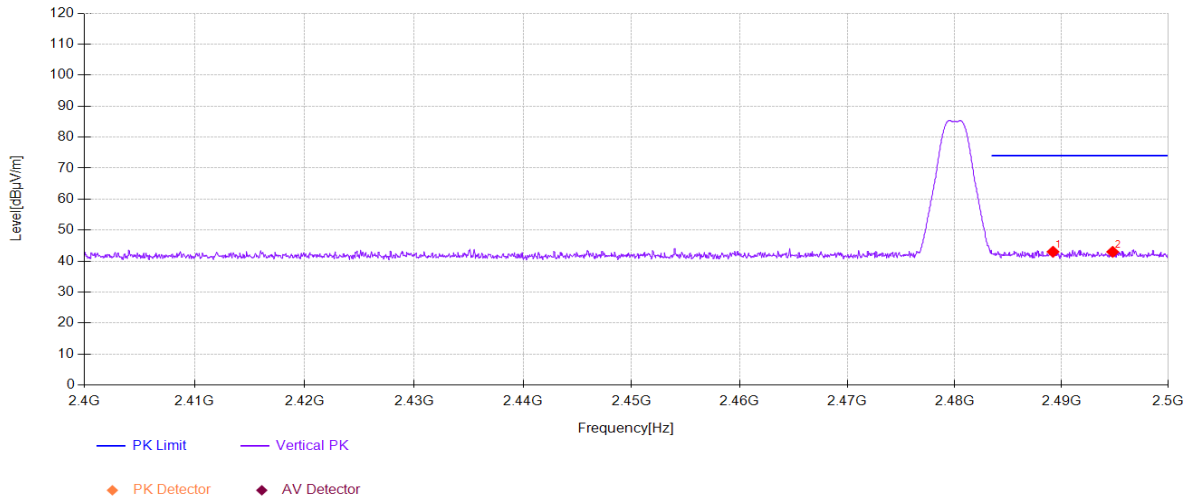


Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2488.8944	26.73	27.76	-23.12	31.37	54.00	22.63	214	206	Horizontal
2	2494.7474	26.77	27.78	-23.13	31.42	54.00	22.58	214	206	Horizontal



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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2489.1946	38.38	27.76	-23.12	43.02	74.00	30.98	311	232	Vertical
2	2494.7974	38.34	27.78	-23.13	42.99	74.00	31.01	311	232	Vertical

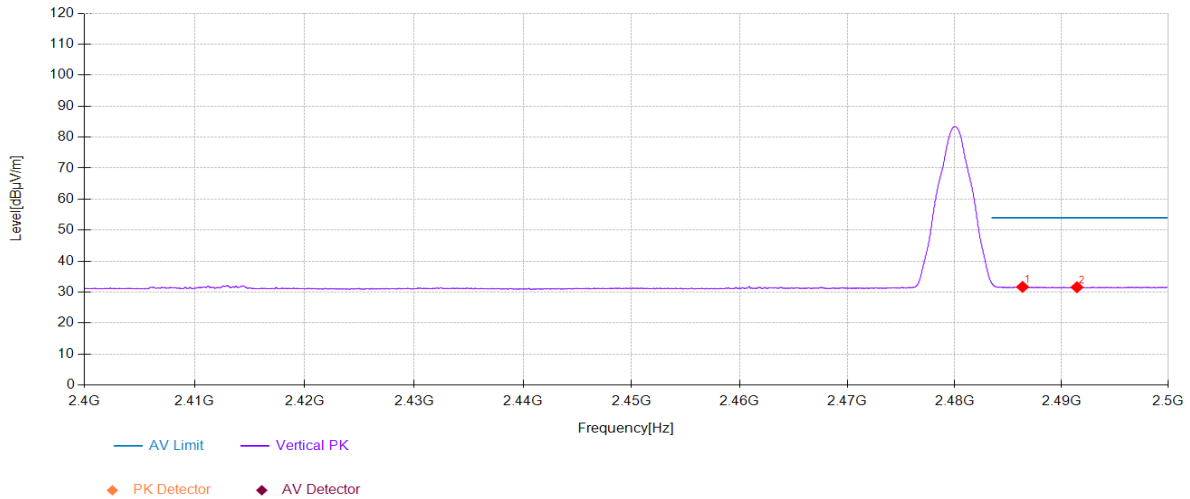


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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2486.3432	27.06	27.75	-23.12	31.69	54.00	22.31	311	232	Vertical
2	2491.4457	26.94	27.77	-23.13	31.58	54.00	22.42	311	232	Vertical

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:
 Level = Reading(dBµV) + AF(dB/m) + Factor(dB):
 AF = Antenna Factor(dB/m)
 Factor = Cable Factor(dB) - Preamplifier gain(dB)
 Margin = Limit(dBµV/m) – Level(dBµV/m)
- Both peak and average measured complies with the limit line, so test result is "PASS"

---End of Report---

