

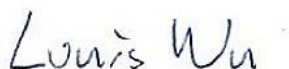


FCC RADIO TEST REPORT

FCC ID : GKRQF4C
Equipment : Wireless Device
Model Name : GQF4C
Applicant : Compal Electronics, Inc.
No. 581-1 & 581, Ruiguang Rd., Nei-hu
District, Taipei City 114, TAIWAN (R.O.C.)
Standard : FCC Part 15 Subpart C §15.247

The product was received on May 12, 2021 and testing was started from May 20, 2021 and completed on Aug. 04, 2021. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.



Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FR0D2205-01B	01	Initial issue of report	Aug. 18, 2021
FR0D2205-01B	02	Revise Support Unit used in test configuration and system.	Oct. 26, 2021

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.247(b)(3)	Output Power	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges and Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Spurious Emission	Pass	Under limit 3.49 dB at 17940.000 MHz
3.6	15.207	AC Conducted Emission	Pass	Under limit 9.63 dB at 0.503 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	Pass	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Avis Chuang

Report Producer: Lucy Wu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Wireless Device
Model Name	GQF4C
FCC ID	GKRGQF4C
EUT supports Radios application	NFC (Passive) WLAN 11b/g/n HT20 Bluetooth BR/EDR/LE

Remark: The above EUT's information was declared by manufacturer.

EUT Information List	
S/N	Performed Test Item
1FQ65006390040914K001F8	RF Conducted Measurement
14261FQEJSW06P	Radiated Spurious Emission
14261FQEJSW068	Conducted Emission

1.2 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx/Rx Channel Frequency Range	2402 MHz ~ 2480 MHz
Number of Channels	40
Carrier Frequency of Each Channel	40 Channel (37 hopping + 3 advertising channel)
Maximum Output Power to Antenna	Bluetooth – LE (1Mbps): 20.00 dBm / 0.1000 W Bluetooth – LE (2Mbps): 20.10 dBm / 0.1023 W
99% Occupied Bandwidth	Bluetooth – LE (1Mbps): 1.058 MHz Bluetooth – LE (2Mbps): 2.064 MHz
Antenna Type / Gain	IFA Antenna with gain -4.10 dBi
Type of Modulation	Bluetooth – LE : GFSK

Remark: The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.3 Modification of EUT

No modifications are made to the EUT during all test items.

1.4 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. CO05-HY (TAF Code: 1190)
Remark	The Conducted Emission test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory.

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. TH05-HY, 03CH12-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190 and TW3786

1.5 Applicable Standards

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

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	0	2402	21	2444
	1	2404	22	2446
	2	2406	23	2448
	3	2408	24	2450
	4	2410	25	2452
	5	2412	26	2454
	6	2414	27	2456
	7	2416	28	2458
	8	2418	29	2460
	9	2420	30	2462
	10	2422	31	2464
	11	2424	32	2466
	12	2426	33	2468
	13	2428	34	2470
	14	2430	35	2472
	15	2432	36	2474
	16	2434	37	2476
	17	2436	38	2478
	18	2438	39	2480
	19	2440	-	-
	20	2442	-	-

2.2 Test Mode

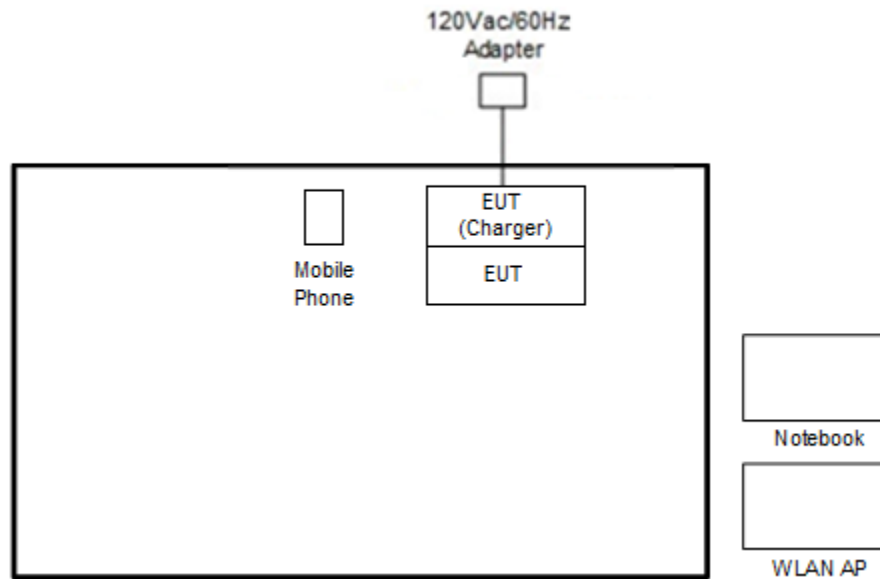
- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). The measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find X Plane with Charger and Strap 1 as worst plane.
- b. AC power line Conducted Emission was tested under maximum output power.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

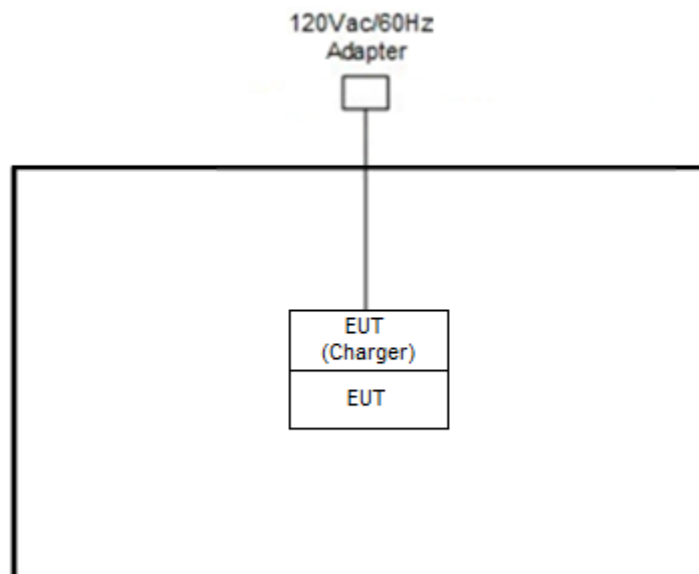
Summary table of Test Cases	
Test Item	Data Rate / Modulation
Conducted Test Cases	Bluetooth – LE / GFSK
	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps
	Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps
	Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps
	Mode 4: Bluetooth Tx CH00_2402 MHz_2Mbps
	Mode 5: Bluetooth Tx CH19_2440 MHz_2Mbps
	Mode 6: Bluetooth Tx CH39_2480 MHz_2Mbps
Radiated Test Cases	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps
	Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps
	Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps
	Mode 4: Bluetooth Tx CH00_2402 MHz_2Mbps
	Mode 5: Bluetooth Tx CH19_2440 MHz_2Mbps
	Mode 6: Bluetooth Tx CH39_2480 MHz_2Mbps
AC Conducted Emission	Mode 1: WLAN (2.4GHz) Link + Bluetooth Link + Charger (Charging from AC Adapter) + NFC (Passive) On + Battery <50% ; Charging Mode

2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



<Bluetooth-LE Tx Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Mobile Phone	SAMSUNG	SM-A730F/DS	A3LSMA730F	N/A	N/A
4.	AC adapter	N/A	N/A	N/A	N/A	N/A
5.	WPT	N/A	G943M	GKRG943M	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility "CMD ver.10.0.18362.1256" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 4.2 + 10 = 14.2 \text{ (dB)}
 \end{aligned}$$

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
6. Measure and record the results in the test report.

3.1.4 Test Setup

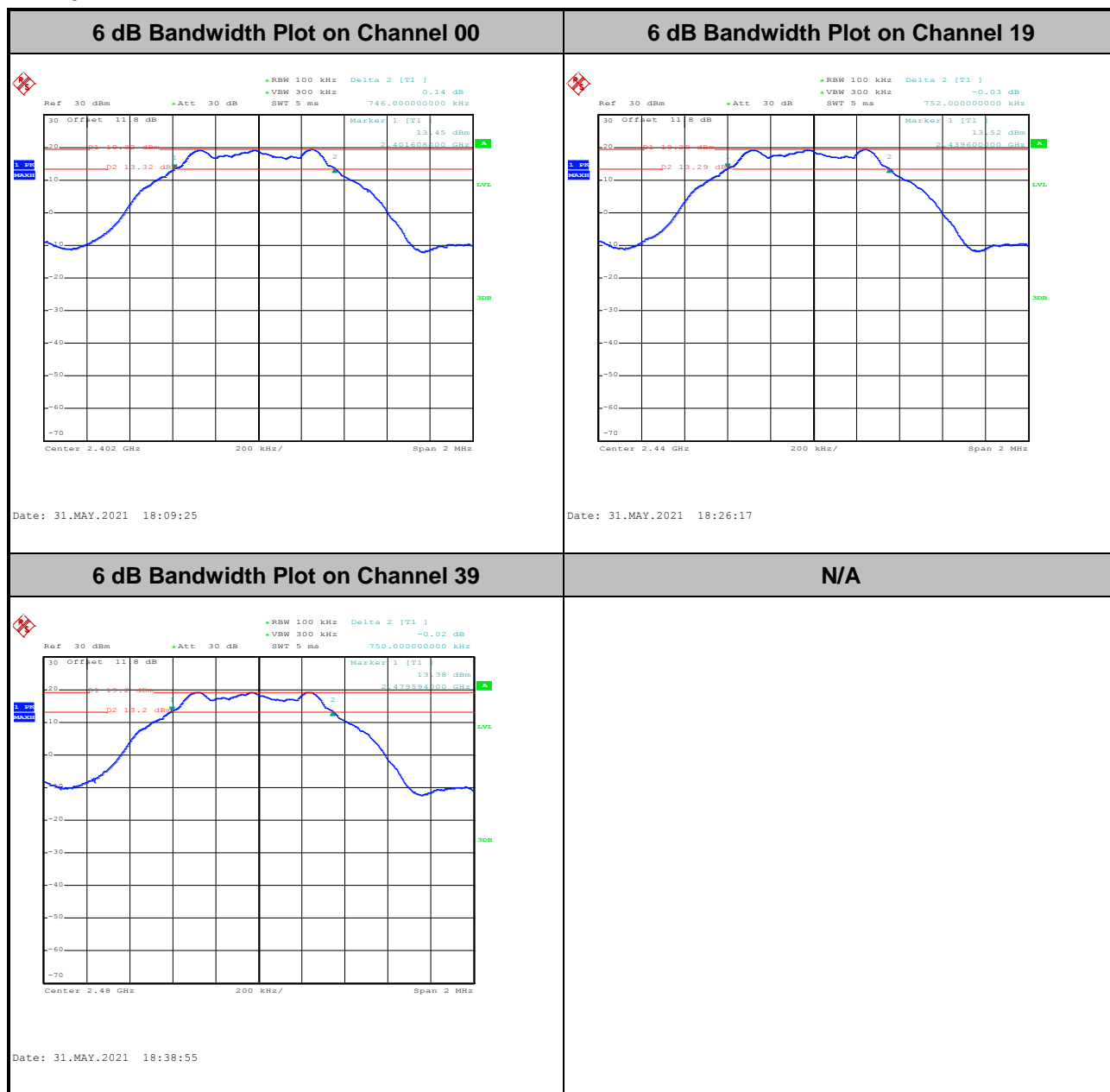




3.1.5 Test Result of 6dB Bandwidth

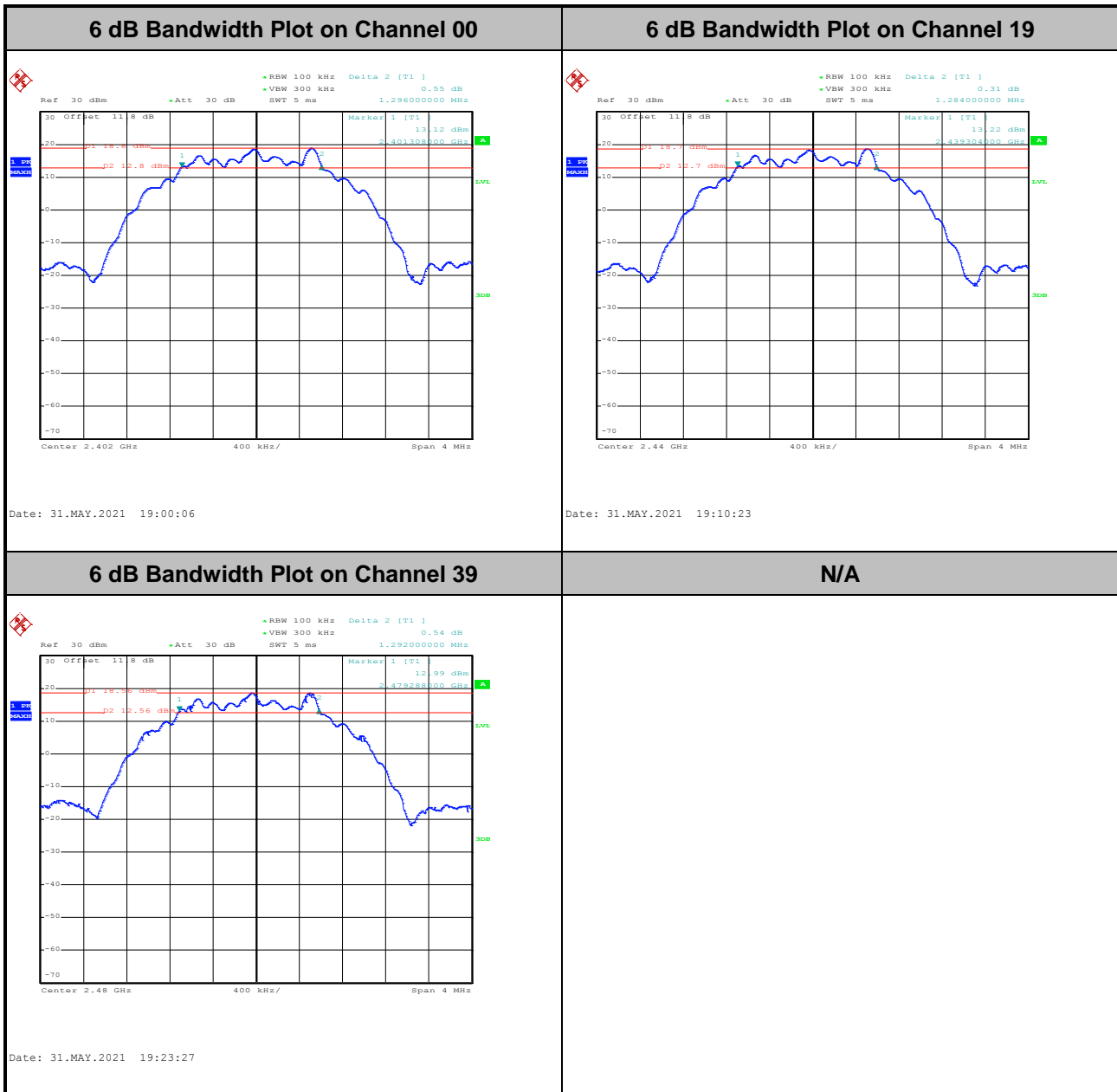
Please refer to Appendix A.

<1Mbps>





<2Mbps>

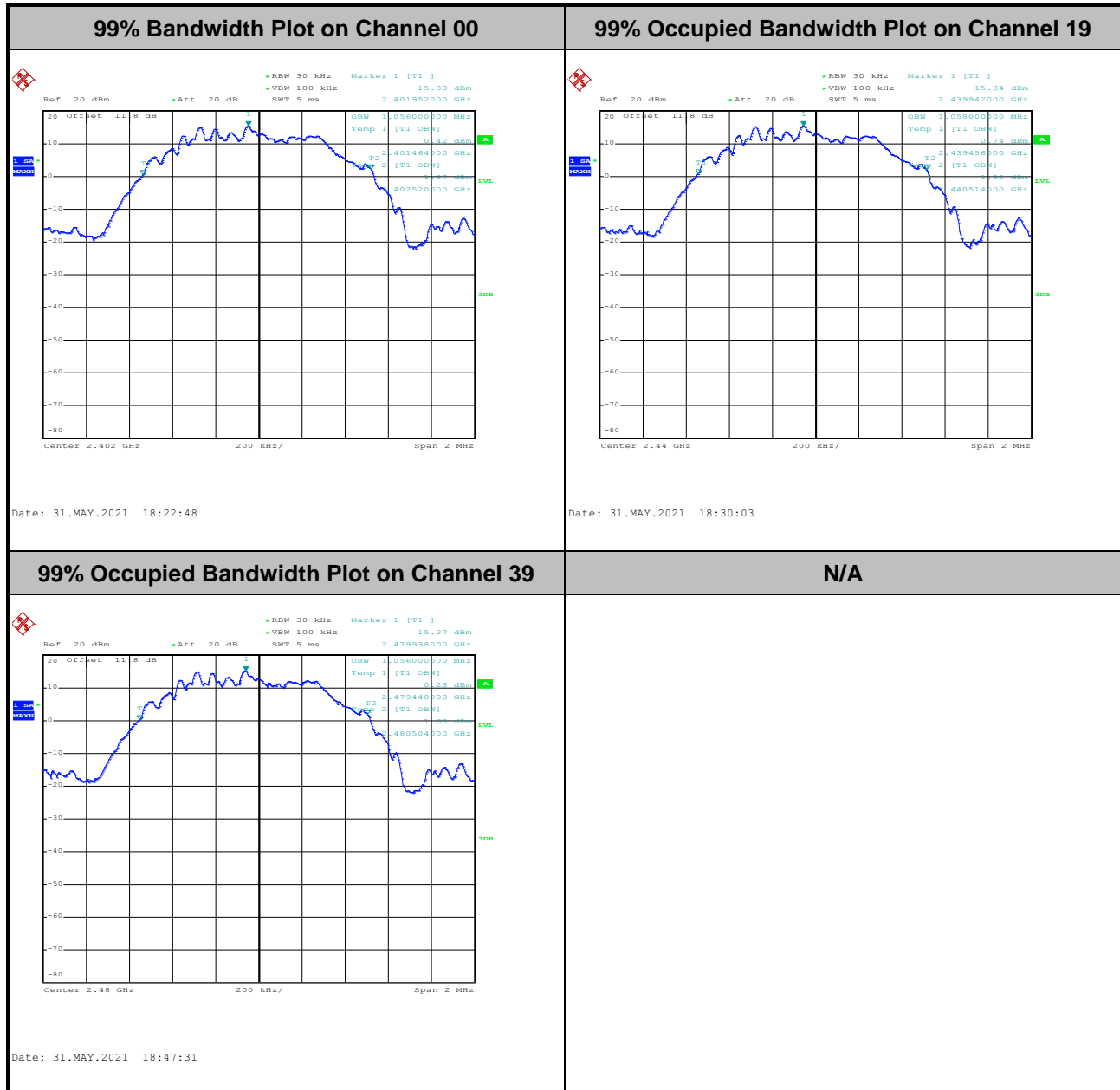




3.1.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

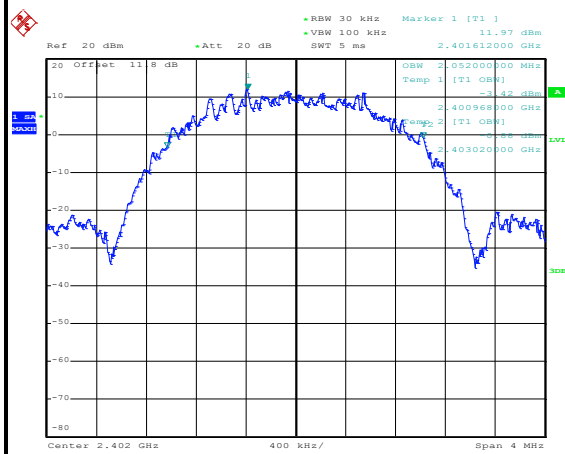
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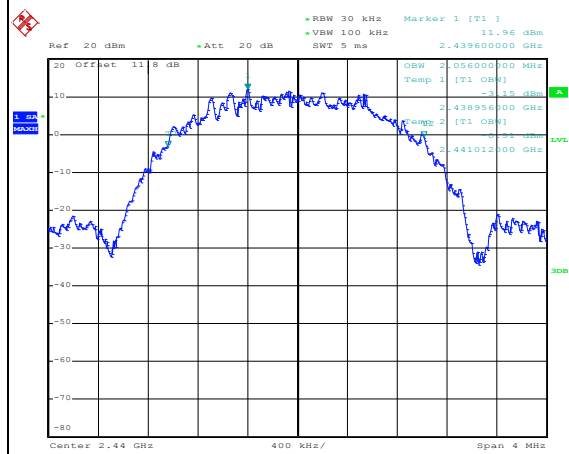
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



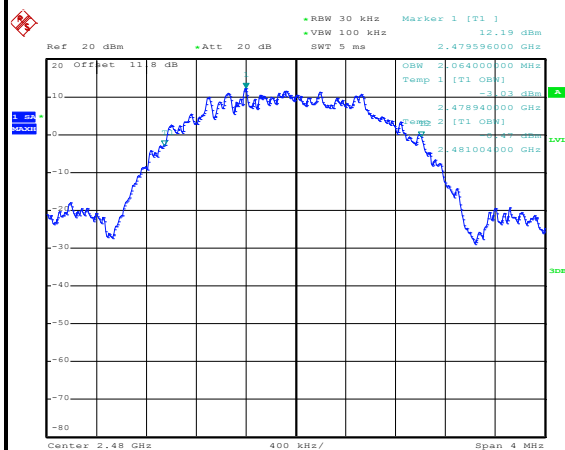
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99% Bandwidth Plot on Channel 00

Date: 31.MAY.2021 19:07:11

99% Occupied Bandwidth Plot on Channel 19

Date: 31.MAY.2021 19:14:33

99% Occupied Bandwidth Plot on Channel 39

Date: 31.MAY.2021 19:28:30

N/A

Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5 MHz, the limit for output power is 30 dBm. If transmitting antenna of directional gain greater than 6 dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

1. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
2. The RF output of EUT was connected to the power meter by RF cable and attenuator.
3. The path loss was compensated to the results for each measurement.
4. Set the maximum power setting and enable the EUT to transmit continuously.
5. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Average Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8 dBm in any 3 kHz band at any time interval of continuous transmission.

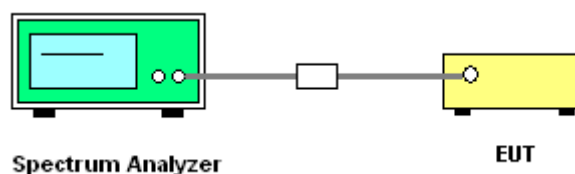
3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. The Measured power density (dBm)/ 100 kHz is a reference level and is used as 20 dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

3.3.4 Test Setup



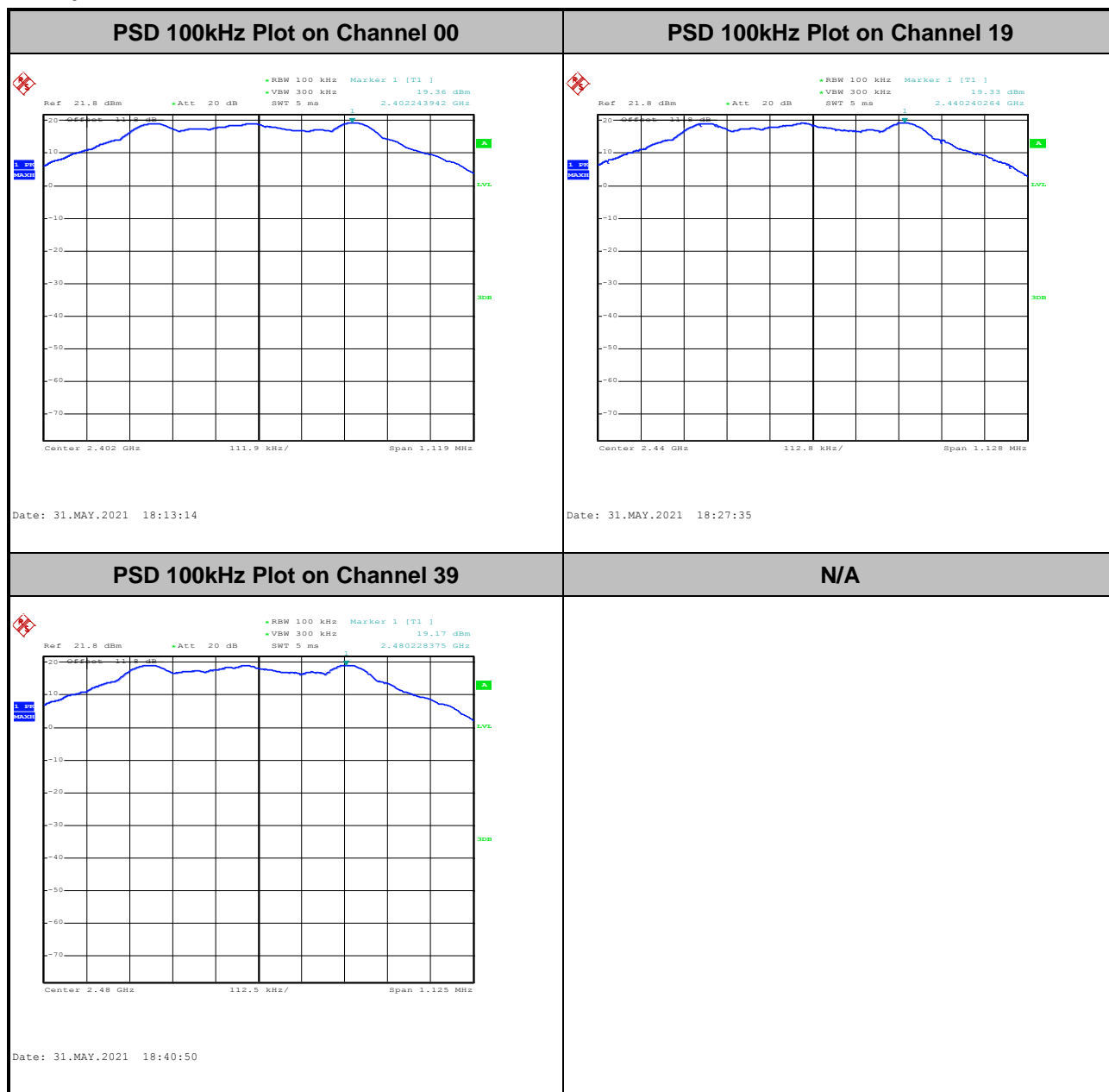
3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



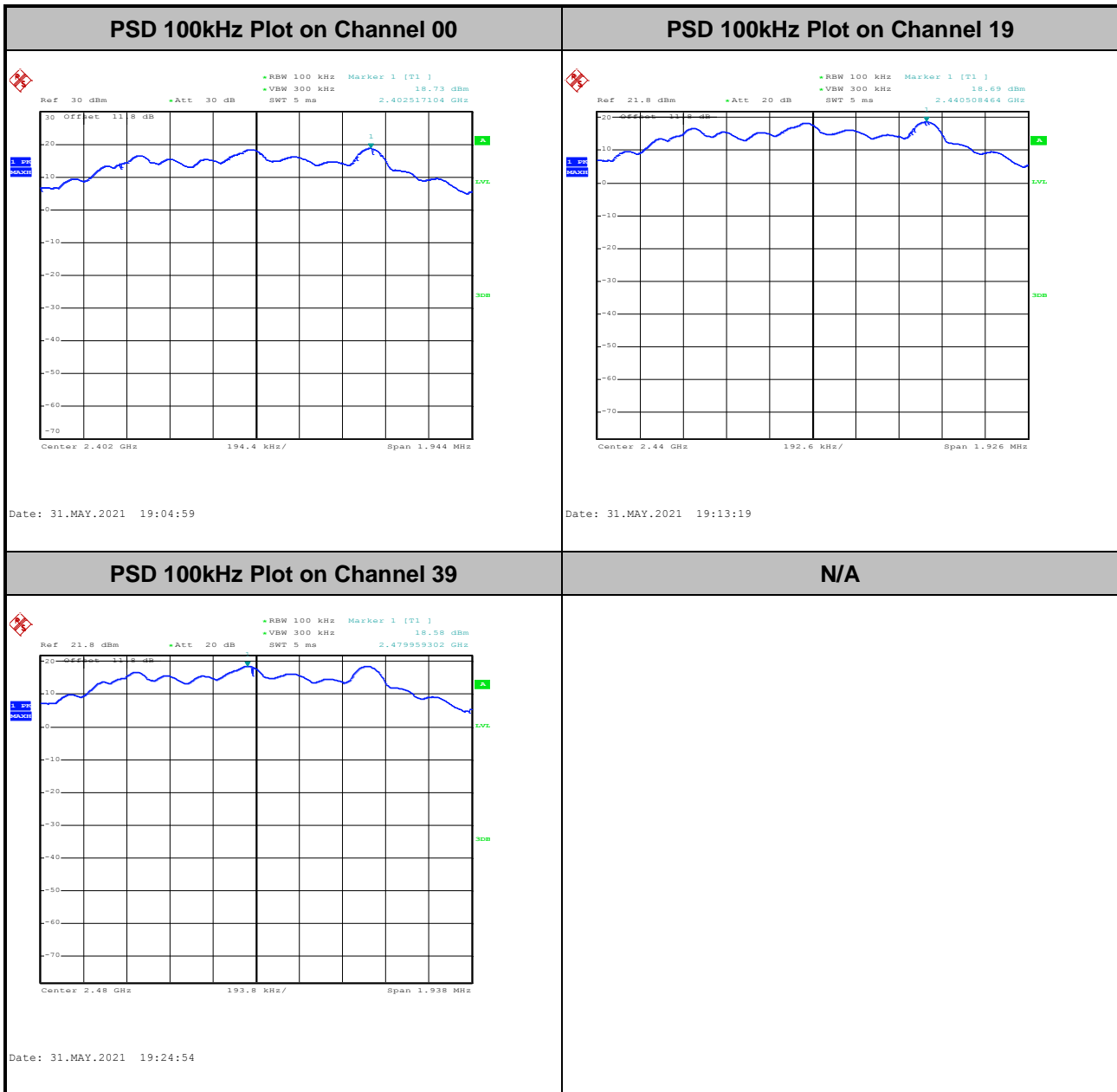
3.3.6 Test Result of Power Spectral Density Plots (100kHz)

<1Mbps>





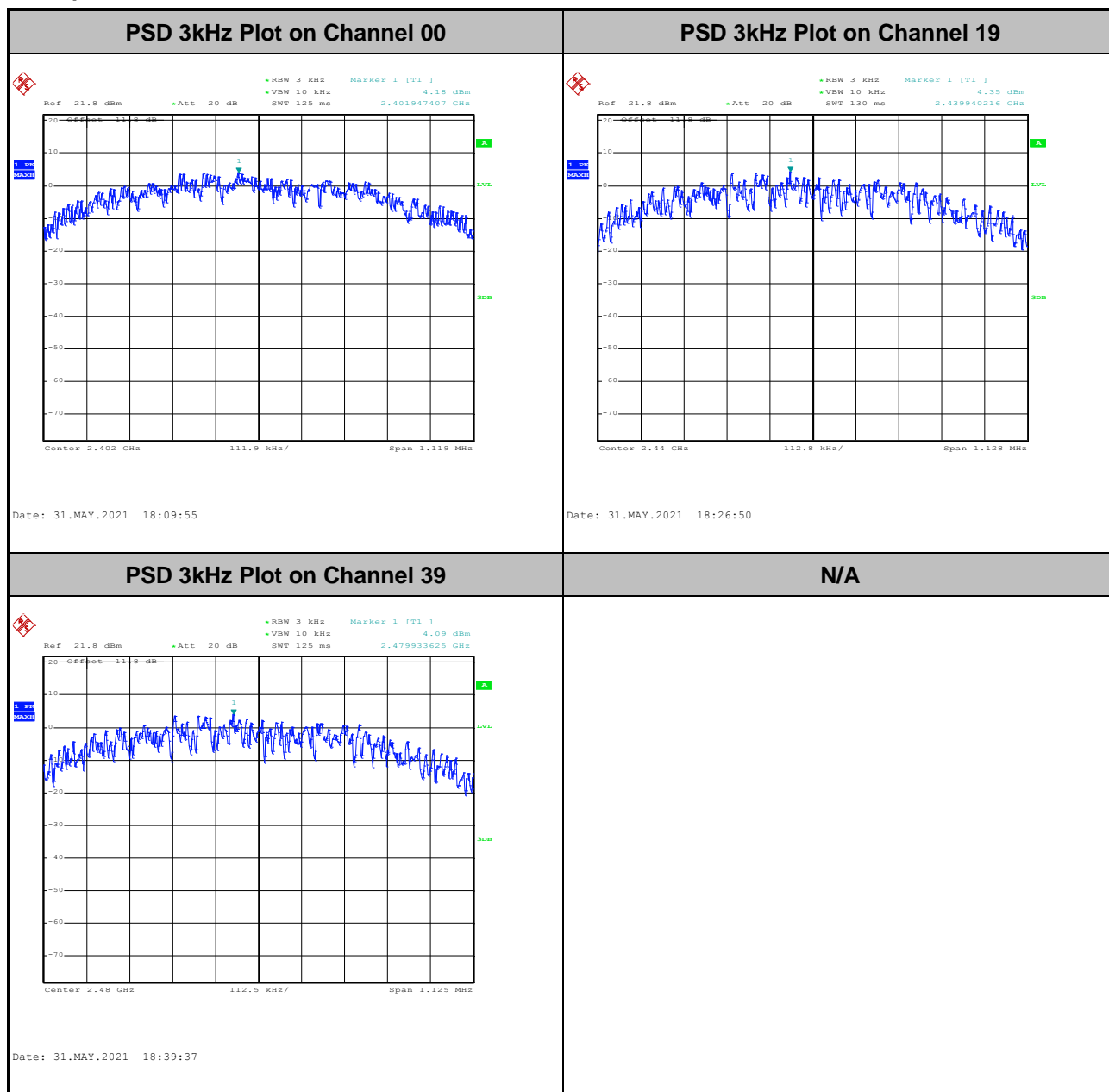
<2Mbps>





3.3.7 Test Result of Power Spectral Density Plots (3kHz)

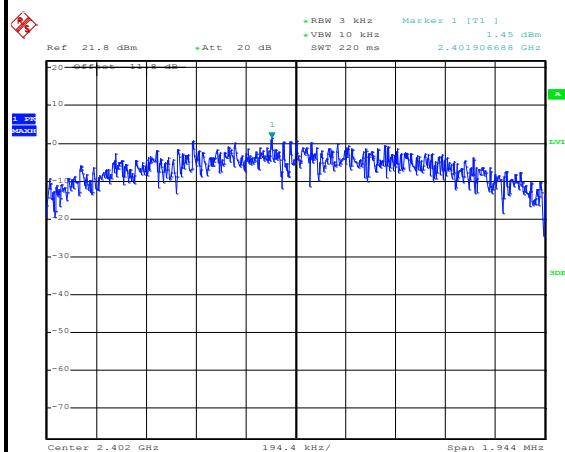
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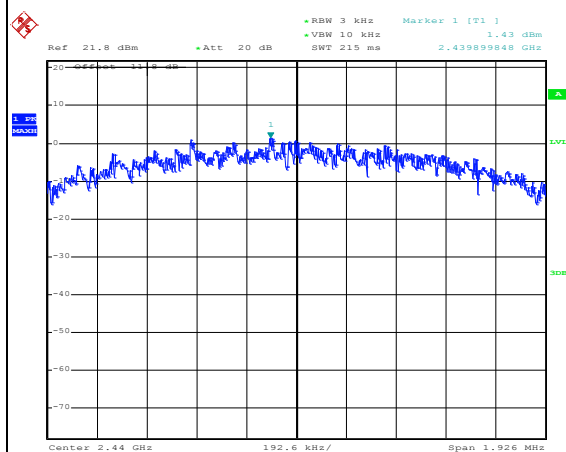
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PSD 3kHz Plot on Channel 00



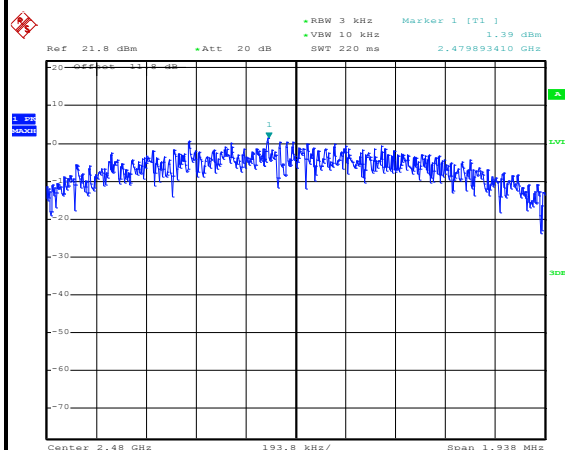
Date: 31.MAY.2021 19:02:34

PSD 3kHz Plot on Channel 19



Date: 31.MAY.2021 19:12:33

PSD 3kHz Plot on Channel 39



Date: 31.MAY.2021 19:23:57

N/A

3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission

All harmonics/spurious must be at least 20 dB down from the highest emission level within the authorized band.

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedure

1. The testing follows the ANSI C63.10 Section 11.11.3 Emission level measurement.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Set RBW = 100 kHz, VBW = 300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

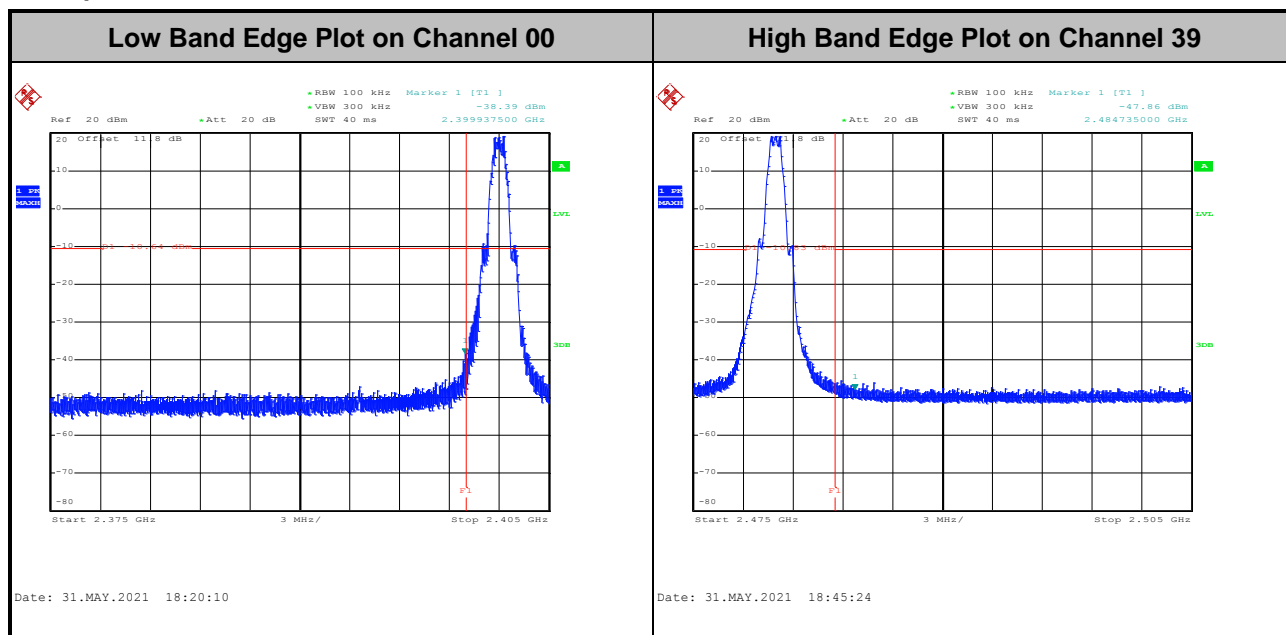
3.4.4 Test Setup



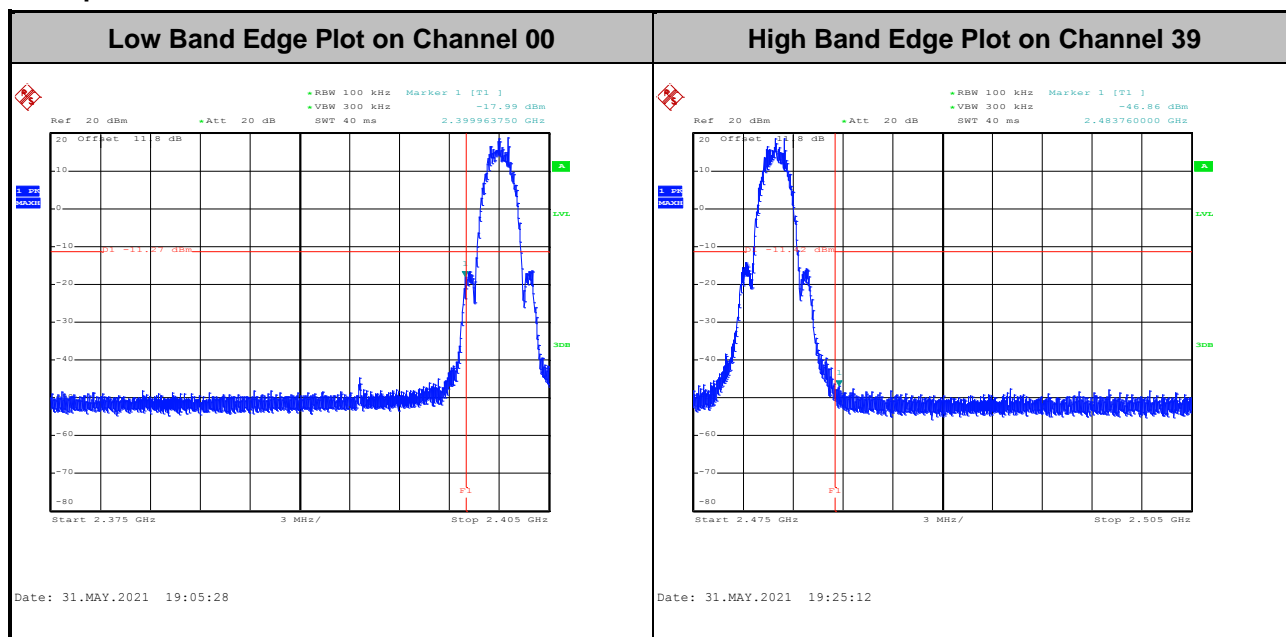


3.4.5 Test Result of Conducted Band Edges Plots

<1Mbps>

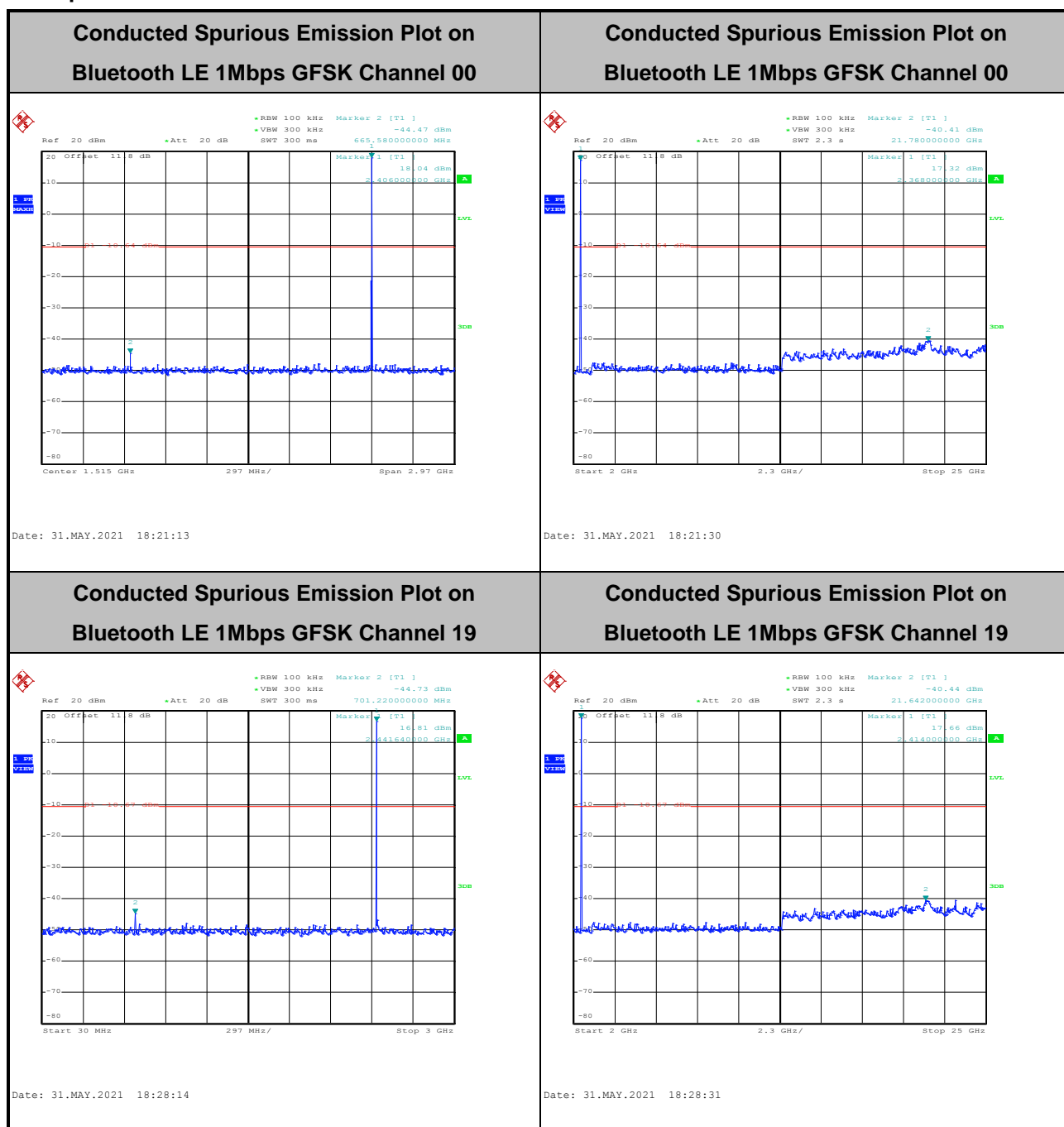


<2Mbps>



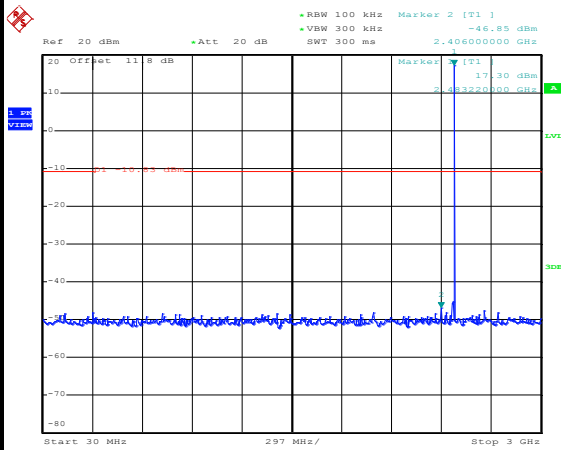
3.4.6 Test Result of Conducted Spurious Emission Plots

<1Mbps>



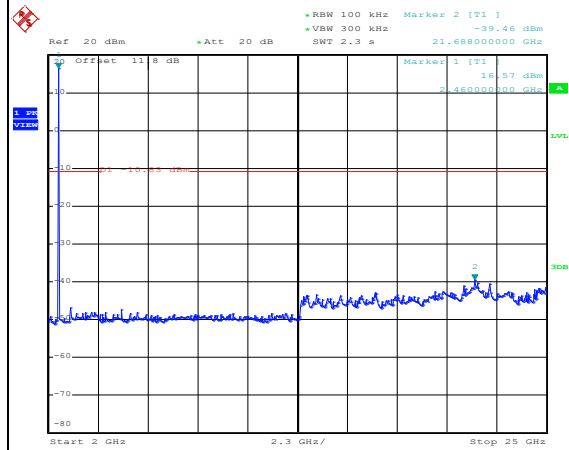


Conducted Spurious Emission Plot on
Bluetooth LE 1Mbps GFSK Channel 39



Date: 31.MAY.2021 18:46:02

Conducted Spurious Emission Plot on
Bluetooth LE 1Mbps GFSK Channel 39

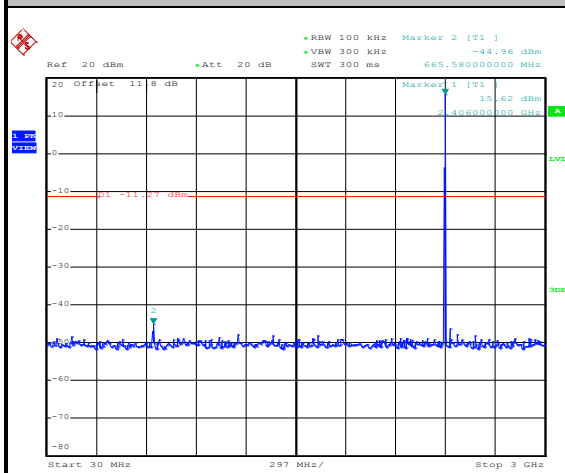


Date: 31.MAY.2021 18:46:58



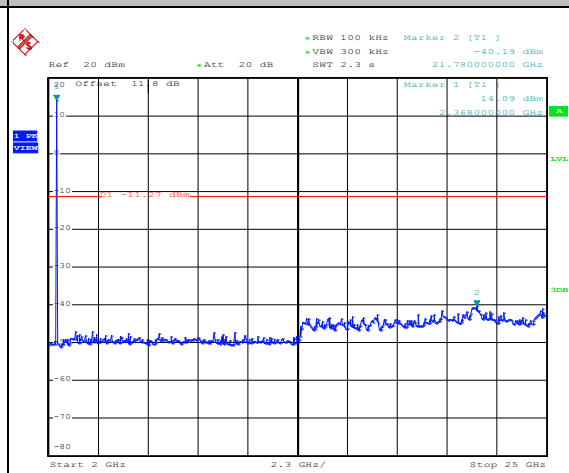
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Conducted Spurious Emission Plot on
Bluetooth LE 2Mbps GFSK Channel 00



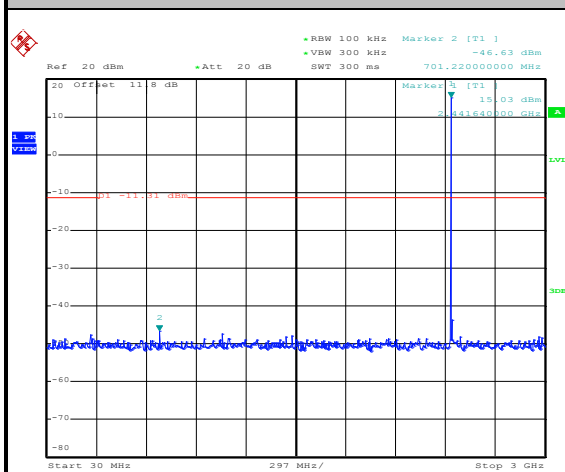
Date: 31.MAY.2021 19:06:36

Conducted Spurious Emission Plot on
Bluetooth LE 2Mbps GFSK Channel 00



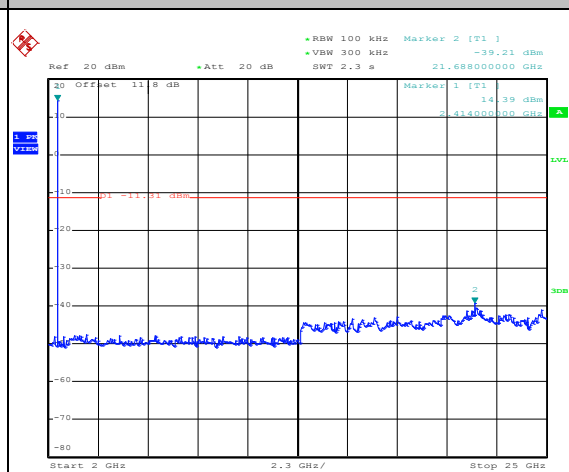
Date: 31.MAY.2021 19:06:53

Conducted Spurious Emission Plot on
Bluetooth LE 2Mbps GFSK Channel 19



Date: 31.MAY.2021 19:13:59

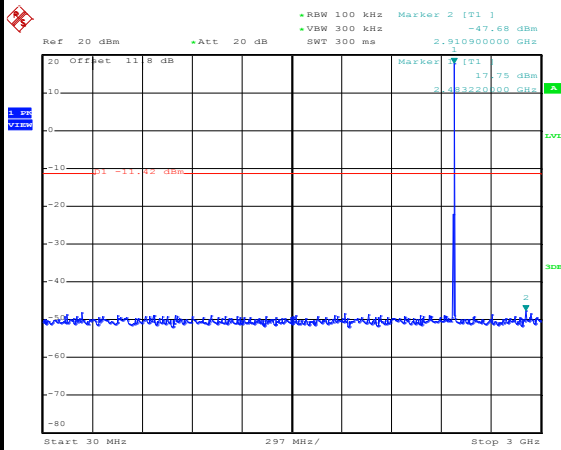
Conducted Spurious Emission Plot on
Bluetooth LE 2Mbps GFSK Channel 19



Date: 31.MAY.2021 19:14:14

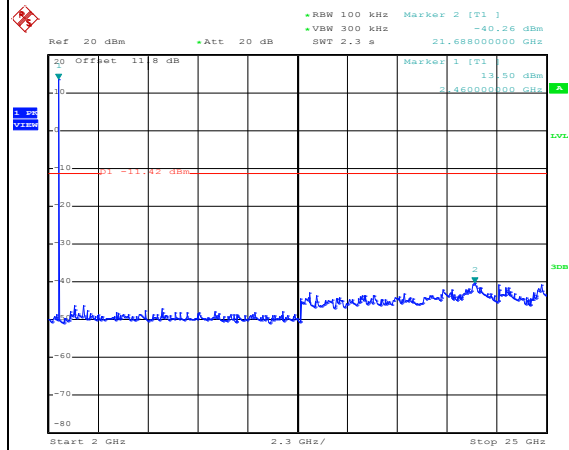


Conducted Spurious Emission Plot on
Bluetooth LE 2Mbps GFSK Channel 39



Date: 31.MAY.2021 19:26:36

Conducted Spurious Emission Plot on
Bluetooth LE 2Mbps GFSK Channel 39



Date: 31.MAY.2021 19:26:58



3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.5.2 Measuring Instruments

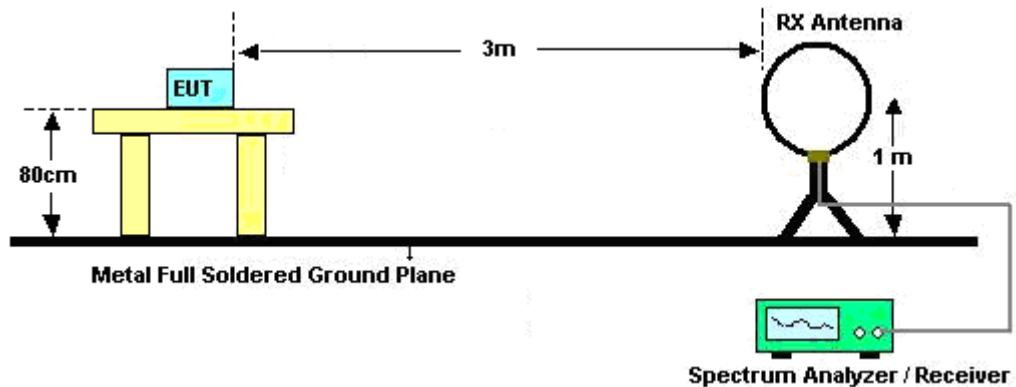
See list of measuring equipment of this test report.

3.5.3 Test Procedures

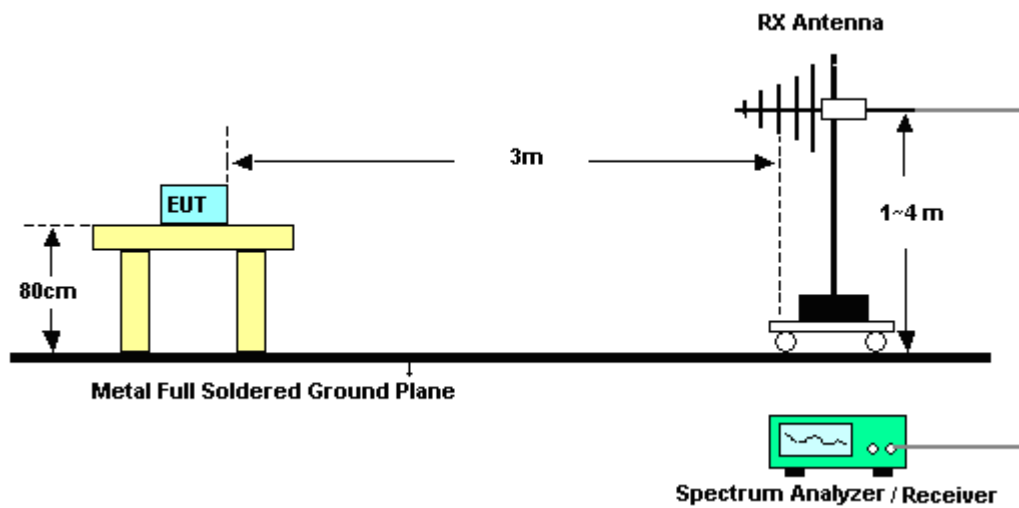
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1 GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and be reported.
7. For testing above 1 GHz, the emission level of the EUT in peak mode was 20 dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and be reported.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW = 100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW = 3 MHz for $f \geq 1$ GHz for peak measurement.
For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, 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.

3.5.4 Test Setup

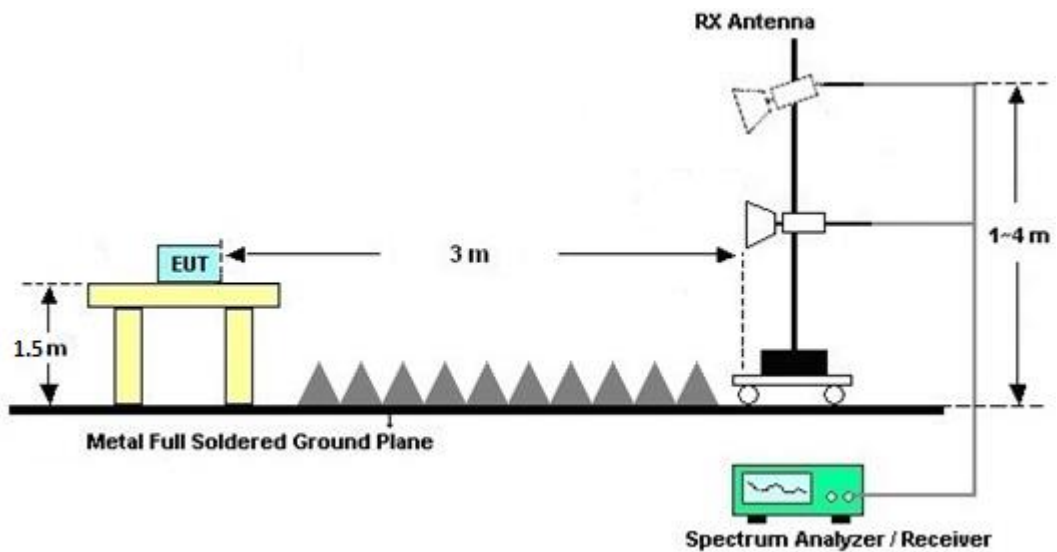
For radiated test below 30MHz



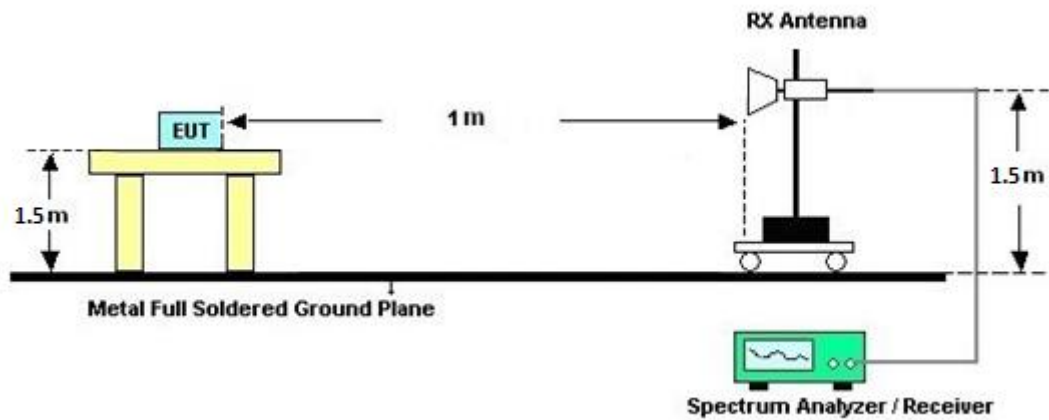
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.5.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

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.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.5.7 Duty Cycle

Please refer to Appendix E.

3.5.8 Test Result of Radiated Spurious Emission (30 MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	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.

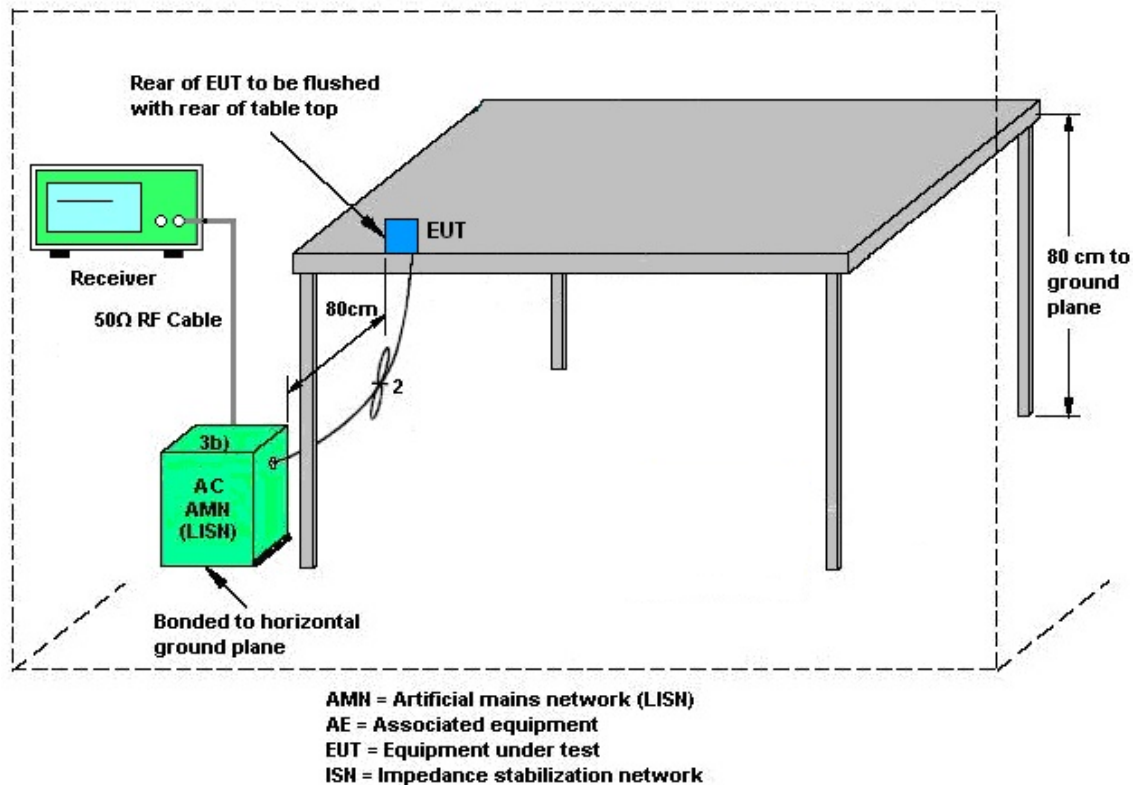
3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Procedures

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

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 04, 2021	Jun. 06, 2021~ Aug. 04, 2021	Jan. 03, 2022	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01 N-06	37059 & 01	30MHz~1GHz	Oct. 11, 2020	Jun. 06, 2021~ Aug. 04, 2021	Oct. 10, 2021	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-132 8	1GHz~18GHz	Nov. 23, 2020	Jun. 06, 2021~ Aug. 04, 2021	Nov. 22, 2021	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	00993	18GHz~40GHz	Dec. 19, 2020	Jun. 06, 2021~ Aug. 04, 2021	Dec. 18, 2021	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 24, 2021	Jun. 06, 2021~ Aug. 04, 2021	Mar. 23, 2022	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY572801 20	1GHz~26.5GHz	Jul. 20, 2020	Jun. 06, 2021~ Jul. 18, 2021	Jul. 19, 2021	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY572801 20	1GHz~26.5GHz	Jul. 19, 2021	Jul. 19, 2021~ Aug. 04, 2021	Jul. 18, 2022	Radiation (03CH12-HY)
Preamplifier	E-INSTRUME NT TECH LTD.	ERA-100M-18 G-56-01-A70	EC190024 9	1GHz-18GHz	Dec. 05, 2020	Jun. 06, 2021~ Aug. 04, 2021	Dec. 04, 2021	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 11, 2020	Jun. 06, 2021~ Aug. 04, 2021	Dec. 10, 2021	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY534701 18	10Hz~44GHz	Jan. 15, 2021	Jun. 06, 2021~ Aug. 04, 2021	Jan. 14, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200-1 2SS	SN2	1.2GHz Low Pass Filter	Mar. 17, 2021	Jun. 06, 2021~ Aug. 04, 2021	Mar. 16, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-270 0-3000-18000 -60ST	SN2	3GHz High Pass Filter	Jul. 14, 2020	Jun. 06, 2021~ Jul. 12, 2021	Jul. 13, 2021	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-270 0-3000-18000 -60ST	SN2	3GHz High Pass Filter	Jul. 12, 2021	Jul. 13, 2021~ Aug. 04, 2021	Jul. 11, 2022	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000 -40ST	SN2	6.75GHz High Pass Filter	Mar. 17, 2021	Jun. 06, 2021~ Aug. 04, 2021	Mar. 16, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	9kHz~30MHz	Mar. 11, 2021	Jun. 06, 2021~ Aug. 04, 2021	Mar. 10, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 11, 2020	Jun. 06, 2021~ Aug. 04, 2021	Dec. 10, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Feb. 22, 2021	Jun. 06, 2021~ Aug. 04, 2021	Feb. 21, 2022	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30MHz~40GHz	Feb. 22, 2021	Jun. 06, 2021~ Aug. 04, 2021	Feb. 21, 2022	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1m~4m	N/A	Jun. 06, 2021~ Aug. 04, 2021	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jun. 06, 2021~ Aug. 04, 2021	N/A	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Jun. 06, 2021~ Aug. 04, 2021	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-00098 9	N/A	N/A	Jun. 06, 2021~ Aug. 04, 2021	N/A	Radiation (03CH12-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 02, 2021	May 20, 2021~ May 31, 2021	Mar. 01, 2022	Conducted (TH05-HY)
Power Sensor	Agilent	E9327A	US404415 48	50MHz~18GHz	Jan. 14, 2021	May 20, 2021~ May 31, 2021	Jan. 13, 2022	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Jan. 21, 2021	May 20, 2021~ May 31, 2021	Jan. 20, 2022	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2021	May 20, 2021~ May 31, 2021	Mar. 16, 2022	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jun. 01, 2021~ Jul. 13, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 30, 2020	Jun. 01, 2021~ Jul. 13, 2021	Nov. 29, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 18, 2020	Jun. 01, 2021~ Jul. 13, 2021	Nov. 17, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 01, 2020	Jun. 01, 2021~ Jul. 13, 2021	Nov. 30, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jun. 01, 2021~ Jul. 13, 2021	N/A	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Feb. 25, 2021	Jun. 01, 2021~ Jul. 13, 2021	Feb. 24, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 31, 2020	Jun. 01, 2021~ Jul. 13, 2021	Dec. 30, 2021	Conduction (CO05-HY)

5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.3 dB
--	--------

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.4 dB
--	--------

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	6.3 dB
--	--------

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.1 dB
--	--------

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Mina Liu	Temperature:	21~25	°C
Test Date:	2021/5/20~2021/05/31	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE	1Mbps	1	0	2402	1.056	0.746	0.50	Pass
BLE	1Mbps	1	19	2440	1.058	0.752	0.50	Pass
BLE	1Mbps	1	39	2480	1.056	0.750	0.50	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	1Mbps	1	0	2402	20.00	30.00	-4.10	15.90	36.00	Pass
BLE	1Mbps	1	19	2440	20.00	30.00	-4.10	15.90	36.00	Pass
BLE	1Mbps	1	39	2480	20.00	30.00	-4.10	15.90	36.00	Pass

TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	1Mbps	1	0	2402	19.36	4.18	-4.10	8.00	Pass
BLE	1Mbps	1	19	2440	19.33	4.35	-4.10	8.00	Pass
BLE	1Mbps	1	39	2480	19.17	4.09	-4.10	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE	2Mbps	1	0	2402	2.052	1.296	0.50	Pass
BLE	2Mbps	1	19	2440	2.056	1.284	0.50	Pass
BLE	2Mbps	1	39	2480	2.064	1.292	0.50	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	2Mbps	1	0	2402	20.00	30.00	-4.10	15.90	36.00	Pass
BLE	2Mbps	1	19	2440	20.10	30.00	-4.10	16.00	36.00	Pass
BLE	2Mbps	1	39	2480	20.00	30.00	-4.10	15.90	36.00	Pass

TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	2Mbps	1	0	2402	18.73	1.45	-4.10	8.00	Pass
BLE	2Mbps	1	19	2440	18.69	1.43	-4.10	8.00	Pass
BLE	2Mbps	1	39	2480	18.58	1.39	-4.10	8.00	Pass

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.



Appendix B. AC Conducted Emission Test Results

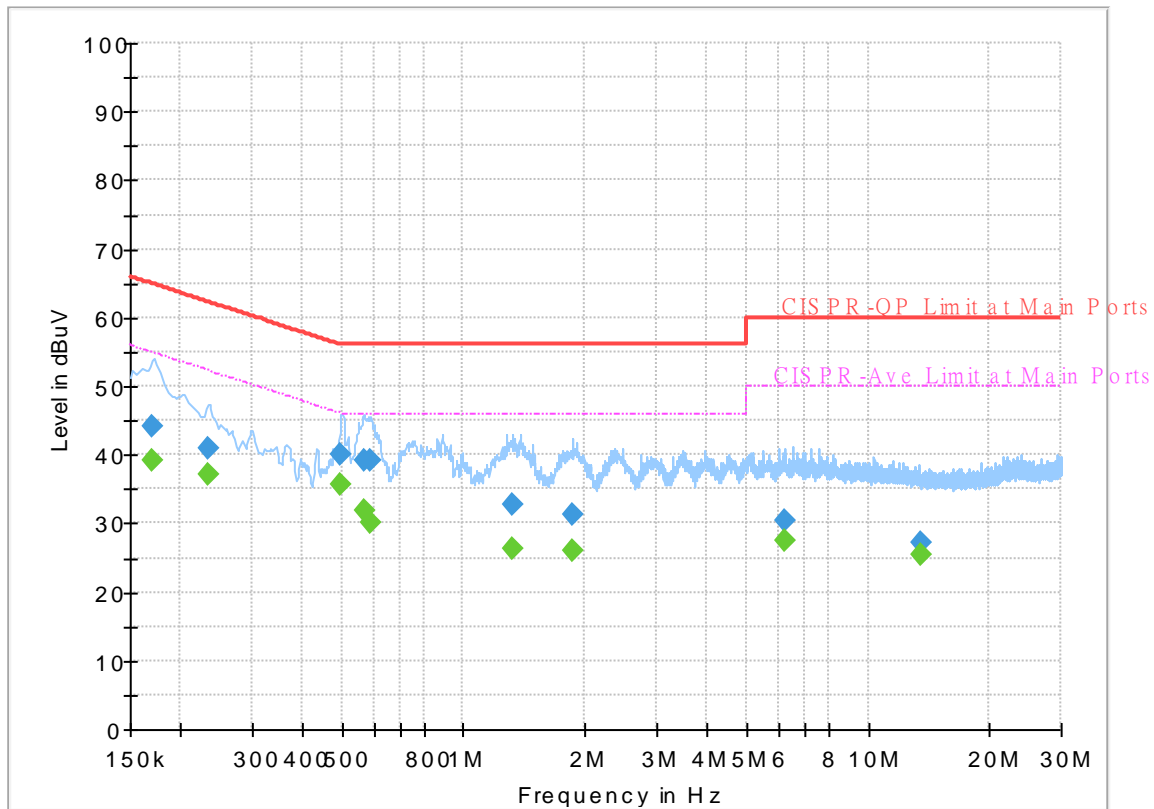
Test Engineer :	Calvin Wang and Tom Lee	Temperature :	23~26°C
		Relative Humidity :	40~50%

EUT Information

Report NO : 0D2205-01

Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



Final_Result

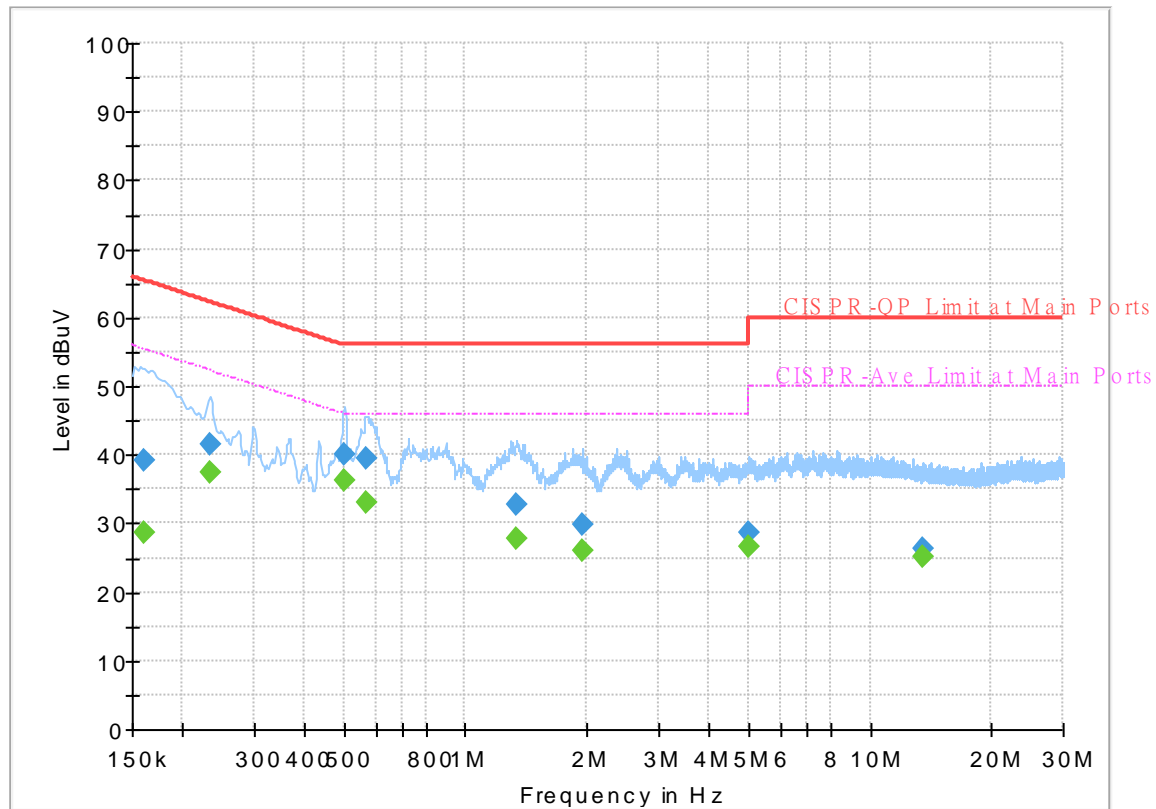
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.170250	---	39.25	54.95	15.70	L1	OFF	19.5
0.170250	44.17	---	64.95	20.78	L1	OFF	19.5
0.233250	---	37.15	52.33	15.18	L1	OFF	19.5
0.233250	40.81	---	62.33	21.52	L1	OFF	19.5
0.498750	---	35.64	46.02	10.38	L1	OFF	19.7
0.498750	40.08	---	56.02	15.94	L1	OFF	19.7
0.566250	---	31.96	46.00	14.04	L1	OFF	19.7
0.566250	39.24	---	56.00	16.76	L1	OFF	19.7
0.591000	---	30.00	46.00	16.00	L1	OFF	19.8
0.591000	39.20	---	56.00	16.80	L1	OFF	19.8
1.320000	---	26.29	46.00	19.71	L1	OFF	20.0
1.320000	32.88	---	56.00	23.12	L1	OFF	20.0
1.857750	---	25.94	46.00	20.06	L1	OFF	20.0
1.857750	31.28	---	56.00	24.72	L1	OFF	20.0
6.202500	---	27.48	50.00	22.52	L1	OFF	19.9
6.202500	30.49	---	60.00	29.51	L1	OFF	19.9
13.560000	---	25.30	50.00	24.70	L1	OFF	20.1
13.560000	27.14	---	60.00	32.86	L1	OFF	20.1

EUT Information

Report NO : 0D2205-01

Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	28.70	55.40	26.70	N	OFF	19.5
0.161250	39.05	---	65.40	26.35	N	OFF	19.5
0.233250	---	37.53	52.33	14.80	N	OFF	19.5
0.233250	41.50	---	62.33	20.83	N	OFF	19.5
0.503250	---	36.37	46.00	9.63	N	OFF	19.7
0.503250	40.18	---	56.00	15.82	N	OFF	19.7
0.568500	---	33.16	46.00	12.84	N	OFF	19.8
0.568500	39.42	---	56.00	16.58	N	OFF	19.8
1.340250	---	27.71	46.00	18.29	N	OFF	20.0
1.340250	32.78	---	56.00	23.22	N	OFF	20.0
1.943250	---	26.10	46.00	19.90	N	OFF	20.0
1.943250	29.87	---	56.00	26.13	N	OFF	20.0
5.034750	---	26.70	50.00	23.30	N	OFF	19.9
5.034750	28.62	---	60.00	31.38	N	OFF	19.9
13.560000	---	25.08	50.00	24.92	N	OFF	20.2
13.560000	26.19	---	60.00	33.81	N	OFF	20.2



Appendix C. Radiated Spurious Emission

Test Engineer :	Jack Cheng, Lance Chiang and Chuan Chu	Temperature :	21~23°C
		Relative Humidity :	54~65%

<EUT with Strap 1>

<1Mbps>

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

BLE	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BLE CH 00 2402MHz		2349.9	53.66	-20.34	74	43.45	27.7	16.68	34.17	222	131	P	H
		2374.365	44.35	-9.65	54	34.09	27.7	16.72	34.16	222	131	A	H
	*	2402	102.89	-	-	92.57	27.7	16.76	34.14	222	131	P	H
	*	2402	102.12	-	-	91.8	27.7	16.76	34.14	222	131	A	H
													H
													H
		2383.71	54.13	-19.87	74	43.84	27.7	16.74	34.15	312	14	P	V
		2357.04	44.34	-9.66	54	34.11	27.7	16.7	34.17	312	14	A	V
	*	2402	107.75	-	-	97.43	27.7	16.76	34.14	312	14	P	V
	*	2402	102.16	-	-	91.84	27.7	16.76	34.14	312	14	A	V
													V
													V
BLE CH 19 2440MHz		2372.44	53.5	-20.5	74	43.24	27.7	16.72	34.16	102	135	P	H
		2361.1	44.59	-9.41	54	34.36	27.7	16.7	34.17	102	135	A	H
	*	2440	105.41	-	-	95.1	27.62	16.81	34.12	102	135	P	H
	*	2440	104.6	-	-	94.29	27.62	16.81	34.12	102	135	A	H
		2490.48	53.14	-20.86	74	42.91	27.44	16.88	34.09	102	135	P	H
		2490.06	44.22	-9.78	54	33.99	27.44	16.88	34.09	102	135	A	H
		2355.5	54.36	-19.64	74	44.14	27.7	16.69	34.17	305	14	P	V
		2345.28	44.24	-9.76	54	34.03	27.71	16.68	34.18	305	14	A	V
	*	2440	109.82	-	-	99.51	27.62	16.81	34.12	305	14	P	V
	*	2440	108.96	-	-	98.65	27.62	16.81	34.12	305	14	A	V
		2487.47	53.11	-20.89	74	42.88	27.45	16.87	34.09	305	14	P	V
		2484.04	44.04	-9.96	54	33.8	27.46	16.87	34.09	305	14	A	V



BLE CH 39 2480MHz	*	2480	105.88	-	-	95.63	27.48	16.86	34.09	122	146	P	H
	*	2480	104.86	-	-	94.61	27.48	16.86	34.09	122	146	A	H
		2492.96	52.97	-21.03	74	42.74	27.43	16.88	34.08	122	146	P	H
		2483.72	44.22	-9.78	54	33.97	27.47	16.87	34.09	122	146	A	H
													H
													H
	*	2480	108.71	-	-	98.46	27.48	16.86	34.09	326	291	P	V
	*	2480	107.83	-	-	97.58	27.48	16.86	34.09	326	291	A	V
		2484.84	53.14	-20.86	74	42.9	27.46	16.87	34.09	326	291	P	V
		2484	44.36	-9.64	54	34.12	27.46	16.87	34.09	326	291	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

BLE	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BLE CH 00 2402MHz		4804	39.72	-34.28	74	64	31	11.55	66.83	100	0	P	H
		17940	60.61	-13.39	74	60.31	48.66	20.89	69.25	100	0	P	H
		17940	50.08	-3.92	54	49.78	48.66	20.89	69.25	100	0	A	H
													H
		4804	42.18	-31.82	74	66.46	31	11.55	66.83	100	0	P	V
		17940	60.16	-13.84	74	59.86	48.66	20.89	69.25	100	0	P	V
		17940	50.51	-3.49	54	50.21	48.66	20.89	69.25	100	0	A	V
													V
BLE CH 19 2440MHz		4880	40.17	-33.83	74	64.54	31	11.35	66.72	100	0	P	H
		7320	45.49	-28.51	74	61.46	36.26	13.16	65.39	100	0	P	H
		17940	59.22	-14.78	74	58.92	48.66	20.89	69.25	100	0	P	H
		17940	50.1	-3.9	54	49.8	48.66	20.89	69.25	100	0	A	H
		4880	40.32	-33.68	74	64.69	31	11.35	66.72	100	0	P	V
		7320	52.35	-21.65	74	68.32	36.26	13.16	65.39	298	220	P	V
		7320	44.82	-9.18	54	60.79	36.26	13.16	65.39	298	220	A	V
		17940	59.55	-14.45	74	59.25	48.66	20.89	69.25	100	0	P	V
		17940	50.13	-3.87	54	49.83	48.66	20.89	69.25	100	0	A	V
BLE CH 39 2480MHz		4960	41.05	-32.95	74	65.27	31.24	11.15	66.61	100	0	P	H
		7440	45.39	-28.61	74	61.43	36.28	13.22	65.54	100	0	P	H
		17970	61.07	-12.93	74	59.98	49.53	20.92	69.36	100	0	P	H
		17970	50.31	-3.69	54	49.22	49.53	20.92	69.36	100	0	A	H
		4960	40.62	-33.38	74	64.84	31.24	11.15	66.61	100	0	P	V
		7440	45.93	-28.07	74	61.97	36.28	13.22	65.54	100	0	P	V
		17955	60.96	-13.04	74	60.26	49.1	20.91	69.31	100	0	P	V
		17955	49.8	-4.2	54	49.1	49.1	20.91	69.31	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Emission above 18GHz****2.4GHz BLE (SHF)**

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4G BLE SHF		38812	47.51	-26.49	74	39.91	44	19.18	55.58	150	0	P	H
													H
													H
													H
		38856	47.53	-26.47	74	39.9	44	19.19	55.56	150	0	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Emission below 1GHz

2.4GHz BLE (LF)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz BLE LF		71.71	29.31	-10.69	40	45.37	12.38	1.23	29.67	-	-	P	H
		153.19	37.44	-6.06	43.5	48.29	16.91	1.81	29.57	-	-	P	H
		340.4	38.95	-7.05	46	45.25	20.23	2.73	29.26	100	326	Q	H
		737.13	34.5	-11.5	46	30.92	28.09	4.08	28.59	-	-	P	H
		887.48	35.76	-10.24	46	30.5	28.96	4.54	28.24	-	-	P	H
		952.47	36.96	-9.04	46	29.71	30.7	4.68	28.13	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
		30	33.21	-6.79	40	37.58	24.46	0.81	29.64	100	195	Q	V
		91.11	34.1	-9.4	43.5	47.51	14.84	1.41	29.66	-	-	P	V
		339.43	34.82	-11.18	46	41.16	20.2	2.72	29.26	-	-	P	V
		761.38	34.41	-11.59	46	30.53	28.3	4.16	28.58	-	-	P	V
		852.56	36.52	-9.48	46	31.35	29.12	4.43	28.38	-	-	P	V
		950.53	36.76	-9.24	46	29.59	30.64	4.67	28.14	-	-	P	V
													V
													V
													V
													V
													V
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



<2Mbps>

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
		(MHz)	(dBμV/m)	Limit (dB)	Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
BLE CH 00 2402MHz		2352.735	53.14	-20.86	74	42.92	27.7	16.69	34.17	125	306	P	H
		2367.75	43.3	-10.7	54	33.05	27.7	16.71	34.16	125	306	A	H
	*	2402	104.84	-	-	94.52	27.7	16.76	34.14	125	306	P	H
	*	2402	102.29	-	-	91.97	27.7	16.76	34.14	125	306	A	H
													H
													H
		2356.2	53.65	-20.35	74	43.43	27.7	16.69	34.17	354	2	P	V
		2323.86	43.35	-10.65	54	33.14	27.75	16.65	34.19	354	2	A	V
	*	2402	108.29	-	-	97.97	27.7	16.76	34.14	354	2	P	V
	*	2402	106.39	-	-	96.07	27.7	16.76	34.14	354	2	A	V
													V
													V
BLE CH 19 2440MHz		2353.4	53.35	-20.65	74	43.13	27.7	16.69	34.17	125	304	P	H
		2376.36	43.36	-10.64	54	33.1	27.7	16.72	34.16	125	304	A	H
	*	2440	105.48	-	-	95.17	27.62	16.81	34.12	125	304	P	H
	*	2440	103.67	-	-	93.36	27.62	16.81	34.12	125	304	A	H
		2483.97	52.78	-21.22	74	42.54	27.46	16.87	34.09	125	304	P	H
		2490.41	43.18	-10.82	54	32.95	27.44	16.88	34.09	125	304	A	H
		2327.22	53.05	-20.95	74	42.84	27.75	16.65	34.19	344	0	P	V
		2375.52	43.29	-10.71	54	33.03	27.7	16.72	34.16	344	0	A	V
	*	2440	109.9	-	-	99.59	27.62	16.81	34.12	344	0	P	V
	*	2440	106.23	-	-	95.92	27.62	16.81	34.12	344	0	A	V
		2497.48	52.65	-21.35	74	42.43	27.41	16.89	34.08	344	0	P	V
		2486.35	43.2	-10.8	54	32.97	27.45	16.87	34.09	344	0	A	V



BLE CH 39 2480MHz	*	2480	106.36	-	-	96.11	27.48	16.86	34.09	148	310	P	H
	*	2480	103.91	-	-	93.66	27.48	16.86	34.09	148	310	A	H
		2489.16	53.34	-20.66	74	43.11	27.44	16.88	34.09	148	310	P	H
		2483.52	43.71	-10.29	54	33.46	27.47	16.87	34.09	148	310	A	H
													H
													H
	*	2480	110.18	-	-	99.93	27.48	16.86	34.09	365	1	P	V
	*	2480	108.05	-	-	97.8	27.48	16.86	34.09	365	1	A	V
		2483.96	54	-20	74	43.76	27.46	16.87	34.09	365	1	P	V
		2483.52	44.73	-9.27	54	34.48	27.47	16.87	34.09	365	1	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

BLE	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BLE CH 00 2402MHz		4804	39.29	-34.71	74	63.57	31	11.55	66.83	100	0	P	H
		17955	60.57	-13.43	74	59.87	49.1	20.91	69.31	100	0	P	H
		17955	50.13	-3.87	54	49.43	49.1	20.91	69.31	100	0	A	H
													H
		4804	40.01	-33.99	74	64.29	31	11.55	66.83	100	0	P	V
		17970	60.52	-13.48	74	59.43	49.53	20.92	69.36	100	0	P	V
		17970	50.3	-3.7	54	49.21	49.53	20.92	69.36	100	0	A	V
													V
BLE CH 19 2440MHz		4880	40.6	-33.4	74	64.97	31	11.35	66.72	100	0	P	H
		7320	44.52	-29.48	74	60.49	36.26	13.16	65.39	100	0	P	H
		17955	60.03	-13.97	74	59.33	49.1	20.91	69.31	100	0	P	H
		17955	49.81	-4.19	54	49.11	49.1	20.91	69.31	100	0	A	H
		4880	41.49	-32.51	74	65.86	31	11.35	66.72	100	0	P	V
		7320	44.3	-29.7	74	60.27	36.26	13.16	65.39	100	0	P	V
		17955	61.19	-12.81	74	60.49	49.1	20.91	69.31	100	0	P	V
		17955	49.92	-4.08	54	49.22	49.1	20.91	69.31	100	0	A	V
BLE CH 39 2480MHz		4960	41.11	-32.89	74	65.33	31.24	11.15	66.61	100	0	P	H
		7440	45.87	-28.13	74	61.91	36.28	13.22	65.54	100	0	P	H
		17955	60.71	-13.29	74	60.01	49.1	20.91	69.31	100	0	P	H
		17955	50.25	-3.75	54	49.55	49.1	20.91	69.31	100	0	A	H
		4960	41.46	-32.54	74	65.68	31.24	11.15	66.61	100	0	P	V
		7440	45.02	-28.98	74	61.06	36.28	13.22	65.54	100	0	P	V
		17970	60.04	-13.96	74	58.95	49.53	20.92	69.36	100	0	P	V
		17970	50.3	-3.7	54	49.21	49.53	20.92	69.36	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Emission above 18GHz****2.4GHz BLE (SHF)**

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz BLE SHF		39274	47.5	-26.5	74	39.12	44.49	19.23	55.34	150	0	P	H
													H
													H
													H
		38724	47.36	-26.64	74	39.81	44	19.16	55.61	150	0	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Emission below 1GHz

2.4GHz BLE (LF)

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz BLE LF		54.25	28.23	-11.77	40	44.27	12.53	1.08	29.65	-	-	P	H
		148.34	24.42	-19.08	43.5	34.98	17.24	1.78	29.58	134	360	Q	H
		339.43	38.81	-7.19	46	45.15	20.2	2.72	29.26	100	329	Q	H
		746.83	36.48	-9.52	46	32.68	28.29	4.12	28.61	-	-	P	H
		870.02	36.18	-9.82	46	30.9	29.1	4.49	28.31	-	-	P	H
		939.86	36.91	-9.09	46	30.27	30.14	4.65	28.15	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
		30	33.19	-6.81	40	37.56	24.46	0.81	29.64	100	190	Q	V
		120.21	36.83	-6.67	43.5	47.41	17.42	1.64	29.64	-	-	P	V
		340.4	35.18	-10.82	46	41.48	20.23	2.73	29.26	-	-	P	V
		742.95	34.41	-11.59	46	30.65	28.25	4.11	28.6	-	-	P	V
		848.68	35.65	-10.35	46	30.6	29.01	4.43	28.39	-	-	P	V
		951.5	37.55	-8.45	46	30.35	30.67	4.67	28.14	-	-	P	V
													V
													V
													V
													V
													V
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



<EUT with Strap 3>

<1Mbps>

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

BLE	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BLE CH 19 2440MHz		2348.36	54.06	-19.94	74	43.13	27.7	16.68	33.45	325	55	P	H
		2354.52	44.97	-9.03	54	34.03	27.7	16.69	33.45	325	55	A	H
	*	2440	99.79	-	-	88.76	27.62	16.81	33.4	325	55	P	H
	*	2440	93.98	-	-	82.95	27.62	16.81	33.4	325	55	A	H
		2495.94	53.96	-20.04	74	43.02	27.42	16.88	33.36	325	55	P	H
		2499.93	44.78	-9.22	54	33.85	27.4	16.89	33.36	325	55	A	H
		2361.8	54.61	-19.39	74	43.66	27.7	16.7	33.45	146	103	P	V
		2342.76	45.7	-8.3	54	34.78	27.71	16.67	33.46	146	103	A	V
	*	2440	108.49	-	-	97.46	27.62	16.81	33.4	146	103	P	V
	*	2440	106.18	-	-	95.15	27.62	16.81	33.4	146	103	A	V
		2495.17	53.44	-20.56	74	42.5	27.42	16.88	33.36	146	103	P	V
		2489.64	44.87	-9.13	54	33.92	27.44	16.88	33.37	146	103	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**2.4GHz 2400~2483.5MHz****BLE (Harmonic @ 3m)**

BLE	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BLE CH 19 2440MHz		4880	40.63	-33.37	74	65.04	31	11.31	66.72	100	0	P	H
		7320	45.84	-28.16	74	61.7	36.26	13.27	65.39	100	0	P	H
		17970	61.31	-12.69	74	60.35	49.53	20.79	69.36	100	0	P	H
		17970	50.31	-3.69	54	49.35	49.53	20.79	69.36	100	0	A	H
		4880	40.06	-33.94	74	64.47	31	11.31	66.72	100	0	P	V
		7320	45.2	-28.8	74	61.06	36.26	13.27	65.39	100	0	P	V
		17970	60.63	-13.37	74	59.67	49.53	20.79	69.36	100	0	P	V
		17970	50.06	-3.94	54	49.1	49.53	20.79	69.36	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Emission above 18GHz****2.4GHz BLE (SHF)**

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz BLE SHF		39538	48.86	-25.14	74	39.86	44.92	19.23	55.15	150	0	P	H
													H
													H
													H
		38394	45.57	-22.63	68.2	38.47	43.81	19.07	55.78	150	0	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



<2Mbps>

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

BLE	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 39 2480MHz	*	2480	99.2	-	-	88.23	27.48	16.86	33.37	400	68	P	H
	*	2480	96.81	-	-	85.84	27.48	16.86	33.37	400	68	A	H
		2484.68	54.55	-19.45	74	43.59	27.46	16.87	33.37	400	68	P	H
		2487.68	44.07	-9.93	54	33.12	27.45	16.87	33.37	400	68	A	H
													H
													H
	*	2480	107.17	-	-	96.2	27.48	16.86	33.37	169	100	P	V
	*	2480	104.68	-	-	93.71	27.48	16.86	33.37	169	100	A	V
		2498.76	53.96	-20.04	74	43.03	27.4	16.89	33.36	169	100	P	V
		2483.52	44.5	-9.5	54	33.53	27.47	16.87	33.37	169	100	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**2.4GHz 2400~2483.5MHz****BLE (Harmonic @ 3m)**

BLE	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BLE CH 39 2480MHz		4960	40.85	-33.15	74	65.17	31.24	11.05	66.61	100	0	P	H
		7440	45.64	-28.36	74	61.56	36.28	13.34	65.54	100	0	P	H
		17970	60.41	-13.59	74	59.45	49.53	20.79	69.36	100	0	P	H
		17970	50.28	-3.72	54	49.32	49.53	20.79	69.36	100	0	A	H
		4960	41.29	-32.71	74	65.61	31.24	11.05	66.61	100	0	P	V
		7440	46.44	-27.56	74	62.36	36.28	13.34	65.54	100	0	P	V
		17970	59.65	-14.35	74	58.69	49.53	20.79	69.36	100	0	P	V
		17970	50.17	-3.83	54	49.21	49.53	20.79	69.36	100	0	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Emission above 18GHz****2.4GHz BLE (SHF)**

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz BLE SHF		38768	46.94	-27.06	74	39.36	44	19.17	55.59	150	0	P	H
													H
													H
													H
		39076	47.77	-26.23	74	39.85	44.14	19.23	55.45	150	0	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	P eak or A verage
H/V	H orizontal or V ertical

A calculation example for radiated spurious emission is shown as below:

BLE	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BLE CH 00 2402MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =
Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
= 55.45 (dBμV/m)
2. Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
2. Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Jack Cheng, Lance Chiang and Chuan Chu	Temperature :	21~23°C
		Relative Humidity :	54~65%

Note symbol

-L	Low channel location
-R	High channel location

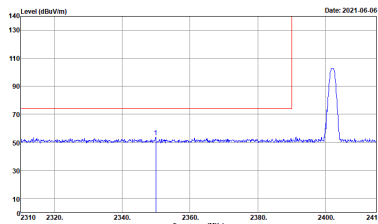
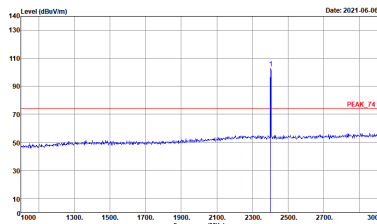
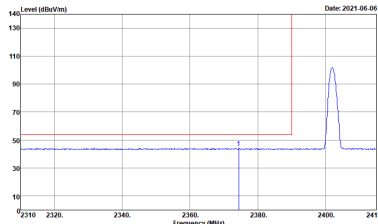
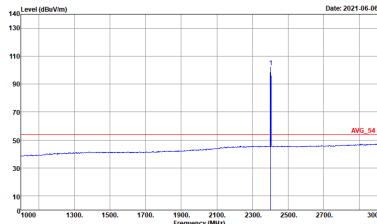


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2.4GHz 2400~2483.5MHz

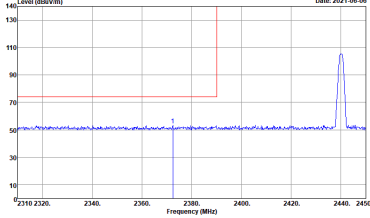
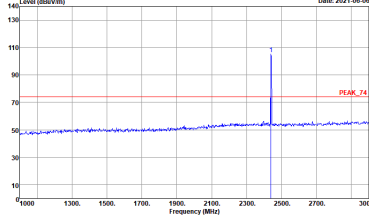
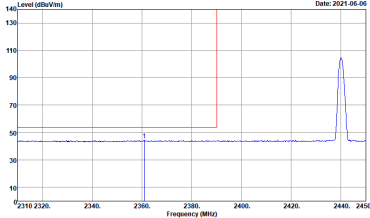
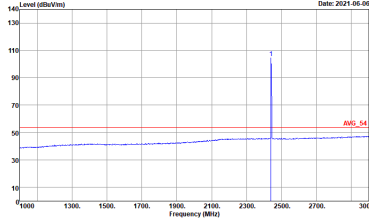
BLE (Band Edge @ 3m)

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH00 2402MHz	
	Horizontal	Fundamental
Peak	 <p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 002205-01</p>	 <p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 002205-01</p>
Avg.	 <p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 002205-01</p>	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 002205-01</p>

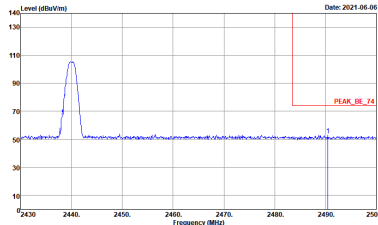
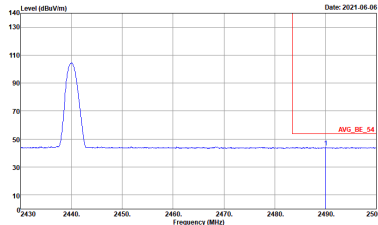


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH00 2402MHz	
	Vertical	Fundamental
Peak	<div><p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 002205-01</p></div>	<div><p>Site : 03CH12-HY Condition : PEAK_F4 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 002205-01</p></div>
Avg.	<div><p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000kHz VBW:3.000kHz SWT:Auto Project : 002205-01</p></div>	<div><p>Site : 03CH12-HY Condition : AVG_F4 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000kHz VBW:3.000kHz SWT:Auto Project : 002205-01</p></div>

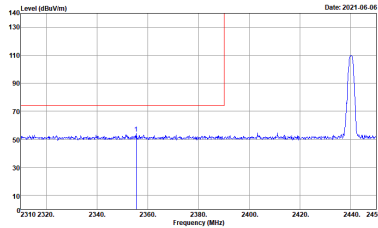
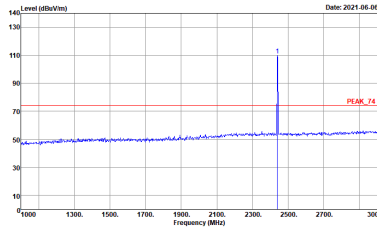
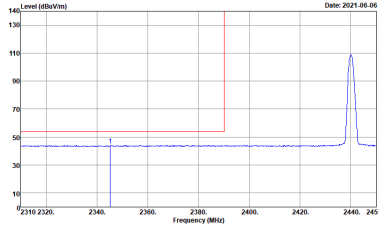
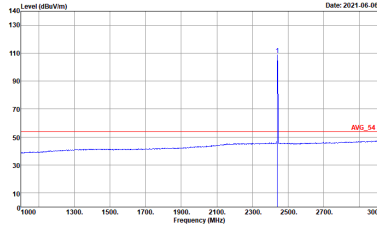


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH19 2440MHz - L	
	Horizontal	Fundamental
Peak	<div><p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 0D2205-01</p></div>	<div><p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 0D2205-01</p></div>
Avg.	<div><p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 0D2205-01</p></div>	<div><p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 0D2205-01</p></div>

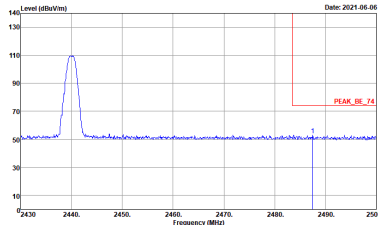
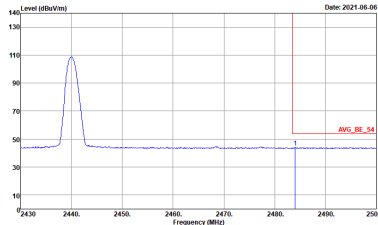


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH19 2440MHz - R	
	Horizontal	Fundamental
Peak	<div><p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 002205-01</p></div>	Left blank
Avg.	<div><p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 002205-01</p></div>	Left blank

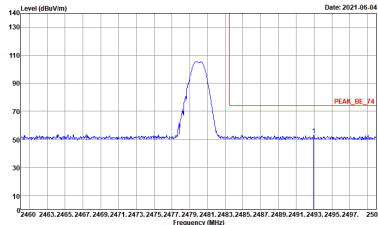
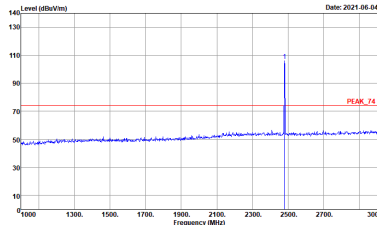
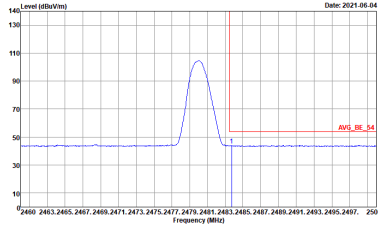
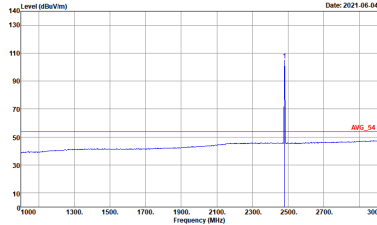


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH19 2440MHz - L	
	Vertical	Fundamental
Peak	<div><p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 002205-01</p></div>	<div><p>Site : 03CH12-HY Condition : PEAK_F4 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 002205-01</p></div>
Avg.	<div><p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000kHz VBW:3.000kHz SWT:Auto Project : 002205-01</p></div>	<div><p>Site : 03CH12-HY Condition : AVG_F4 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000kHz VBW:3.000kHz SWT:Auto Project : 002205-01</p></div>

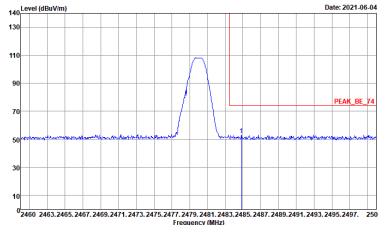
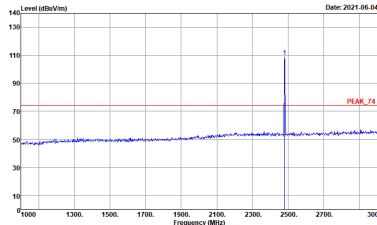
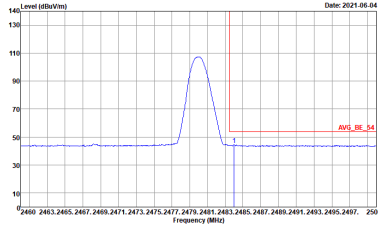
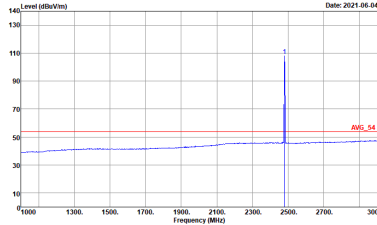


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH19 2440MHz - R	
	Vertical	Fundamental
Peak	<div><p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 002205-01</p></div>	Left blank
Avg.	<div><p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.000kHz VBW:3.000kHz SWT:Auto Project : 002205-01</p></div>	Left blank



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH39 2480MHz	
	Horizontal	Fundamental
Peak	<div><p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 002205-01</p></div>	<div><p>Site : 03CH12-HY Condition : PEAK_F4 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 002205-01</p></div>
Avg.	<div><p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000kHz VBW:3.000kHz SWT:Auto Project : 002205-01</p></div>	<div><p>Site : 03CH12-HY Condition : AVG_F4 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000kHz VBW:3.000kHz SWT:Auto Project : 002205-01</p></div>

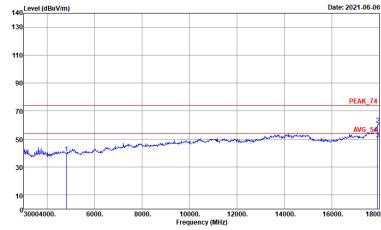
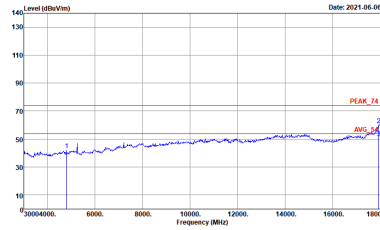


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH39 2480MHz	
	Vertical	Fundamental
Peak	<div><p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 002205-01</p></div>	<div><p>Site : 03CH12-HY Condition : PEAK_F4 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 002205-01</p></div>
Avg.	<div><p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 002205-01</p></div>	<div><p>Site : 03CH12-HY Condition : AVG_F4 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 002205-01</p></div>

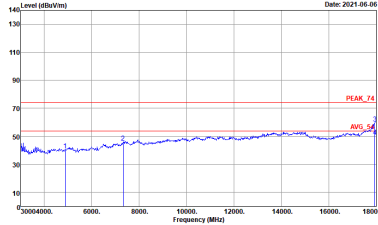
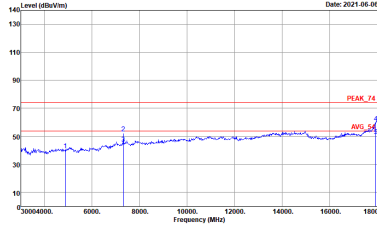


2.4GHz 2400~2483.5MHz

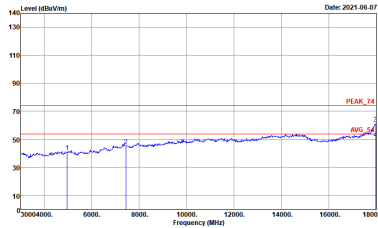
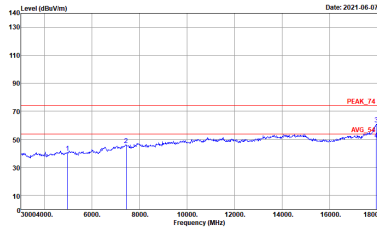
BLE (Harmonic @ 3m)

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BLE CH00 2402MHz	
	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 002205-01</p>	 <p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 VERTICAL Detector : Peak Project : 002205-01</p>



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BLE CH19 2440MHz	
	Horizontal	Vertical
Peak Avg.	<div><p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 002205-01</p></div>	<div><p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 VERTICAL Detector : Peak Project : 002205-01</p></div>

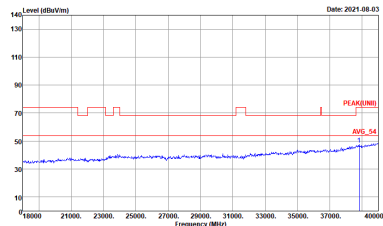
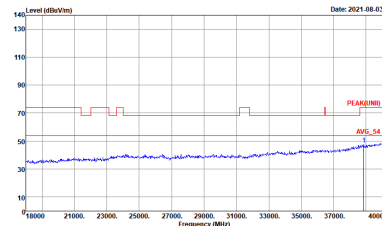


BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BLE CH39 2480MHz	
	Horizontal	Vertical
Peak Avg.	<div><p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 002205-01</p></div>	<div><p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 VERTICAL Detector : Peak Project : 002205-01</p></div>



Emission above 18GHz

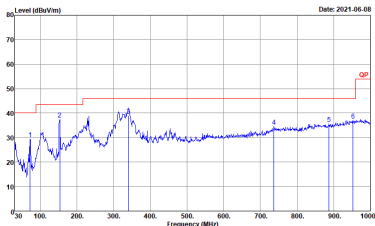
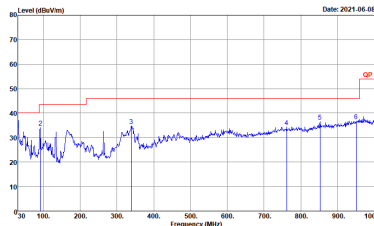
2.4GHz BLE (SHF)

BLE	2.4GHz 2400~2483.5MHz	
	BLE SHF	
	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH12-HY Condition : PEAK(UNIT) 1m SHF HORN BBHA9170584 HORIZONTAL Detector : Peak Project : 002205-01</p>	 <p>Site : 03CH12-HY Condition : PEAK(UNIT) 1m SHF HORN BBHA9170584 VERTICAL Detector : Peak Project : 002205-01</p>

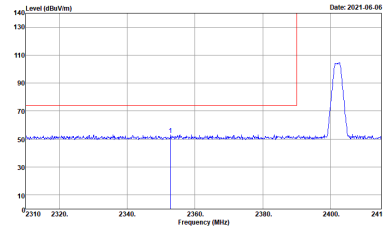
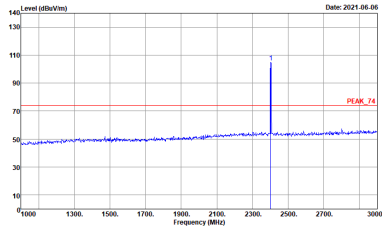
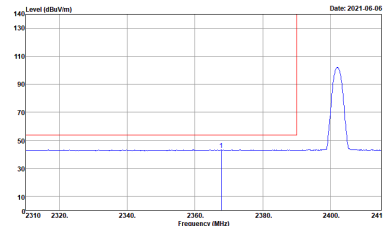
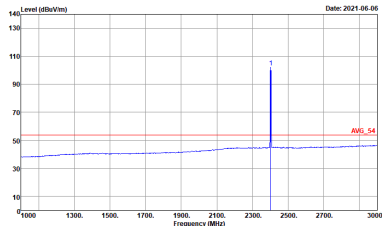


Emission below 1GHz

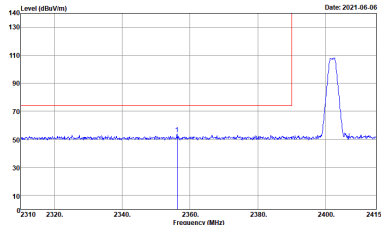
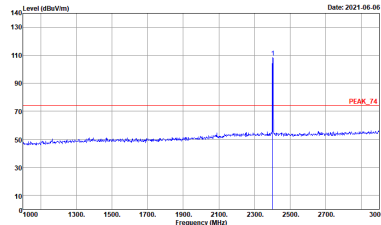
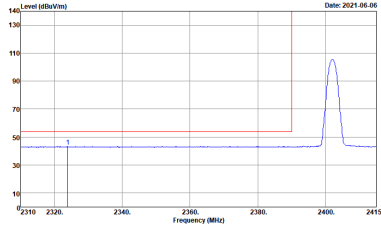
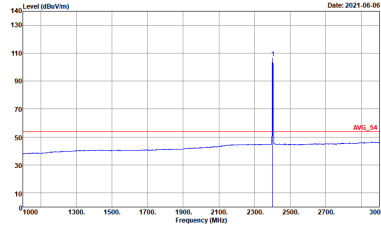
2.4GHz BLE (LF)

BLE	2.4GHz 2400~2483.5MHz	
	BLE LF	
	Horizontal	Vertical
QP / Peak	<div><p>Site : 03CH12-HY Condition : QP 3m BIL06_6111D_37059 HORIZONTAL Detector : Peak Project : 002205-01</p></div>	<div><p>Site : 03CH12-HY Condition : QP 3m BIL06_6111D_37059 VERTICAL Detector : Peak Project : 002205-01</p></div>

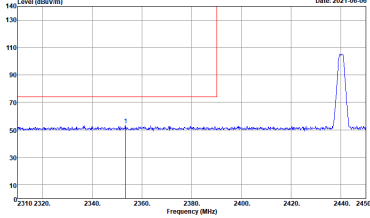
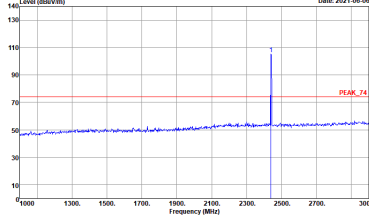
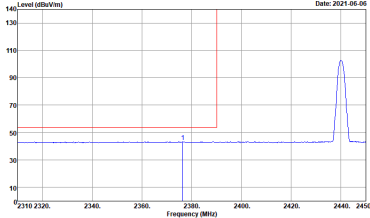
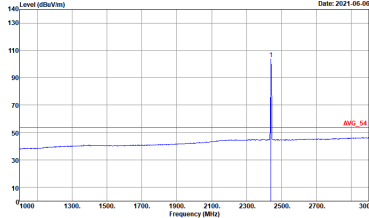
<2Mbps>
2.4GHz 2400~2483.5MHz
BLE (Band Edge @ 3m)

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH00 2402MHz	
	Horizontal	Fundamental
Peak	 <p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 002205-01</p>	 <p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 002205-01</p>
Avg.	 <p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 002205-01</p>	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 002205-01</p>

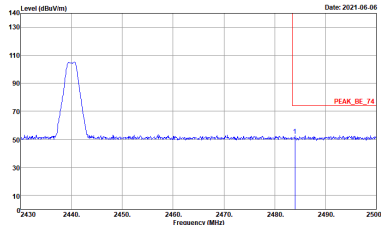
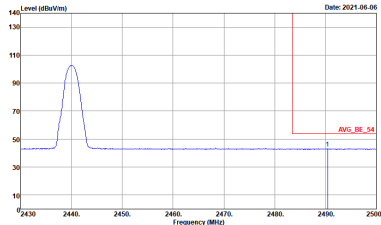


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH00 2402MHz	
	Vertical	Fundamental
Peak	<div><p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 002205-01</p></div>	<div><p>Site : 03CH12-HY Condition : PEAK_F4 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 002205-01</p></div>
Avg.	<div><p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : 002205-01</p></div>	<div><p>Site : 03CH12-HY Condition : AVG_F4 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : 002205-01</p></div>

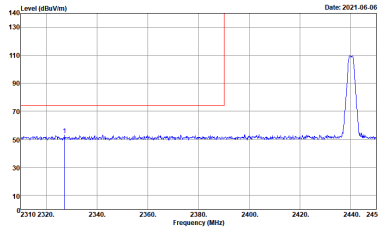
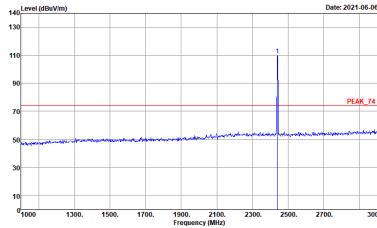
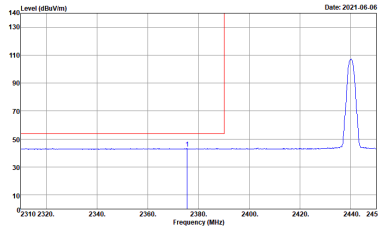
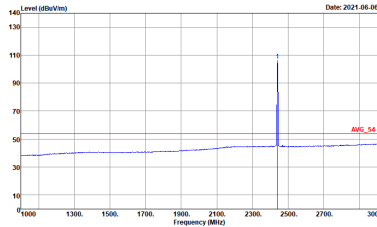


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH19 2440MHz - L	
	Horizontal	Fundamental
Peak	<div><p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 0D2205-01</p></div>	<div><p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 0D2205-01</p></div>
Avg.	<div><p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 0D2205-01</p></div>	<div><p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 0D2205-01</p></div>

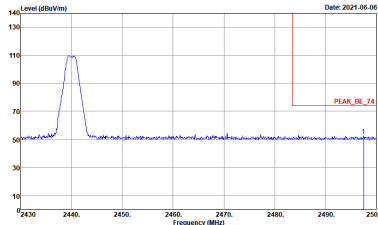
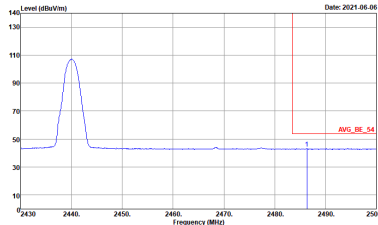


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH19 2440MHz - R	
	Horizontal	Fundamental
Peak	<div><p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 002205-01</p></div>	Left blank
Avg.	<div><p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : 002205-01</p></div>	Left blank

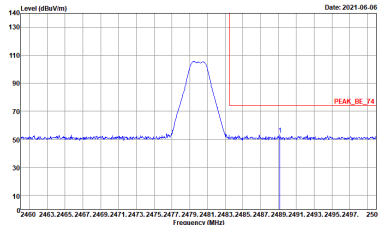
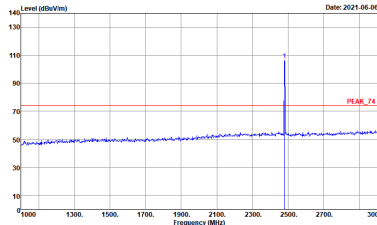
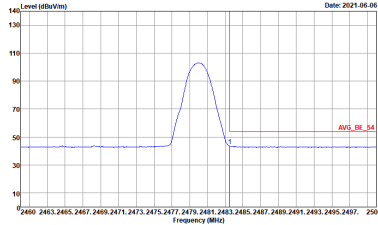
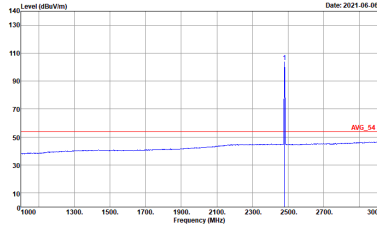


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH19 2440MHz - L	
	Vertical	Fundamental
Peak	<div><p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 002205-01</p></div>	<div><p>Site : 03CH12-HY Condition : PEAK_F4 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 002205-01</p></div>
Avg.	<div><p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : 002205-01</p></div>	<div><p>Site : 03CH12-HY Condition : AVG_F4 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : 002205-01</p></div>

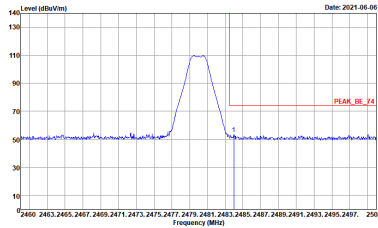
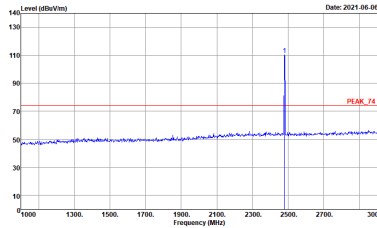
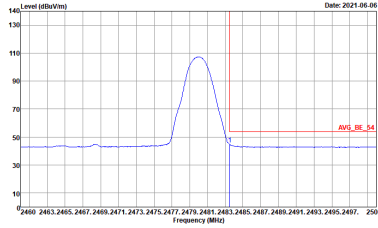
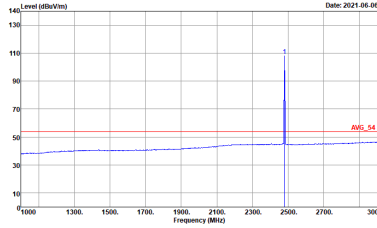


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH19 2440MHz - R	
	Vertical	Fundamental
Peak	<div><p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 002205-01</p></div>	Left blank
Avg.	<div><p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 002205-01</p></div>	Left blank



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH39 2480MHz	
	Horizontal	Fundamental
Peak	<div><p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 002205-01</p></div>	<div><p>Site : 03CH12-HY Condition : PEAK_F4 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 002205-01</p></div>
Avg.	<div><p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : 002205-01</p></div>	<div><p>Site : 03CH12-HY Condition : AVG_F4 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : 002205-01</p></div>

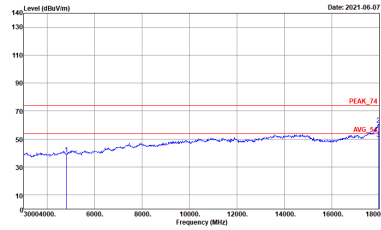
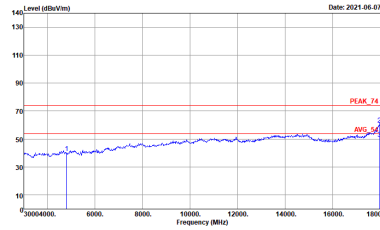


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH39 2480MHz	
	Vertical	Fundamental
Peak	<div><p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 002205-01</p></div>	<div><p>Site : 03CH12-HY Condition : PEAK_F4 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 002205-01</p></div>
Avg.	<div><p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : 002205-01</p></div>	<div><p>Site : 03CH12-HY Condition : AVG_F4 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : 002205-01</p></div>

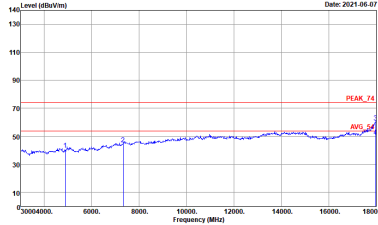
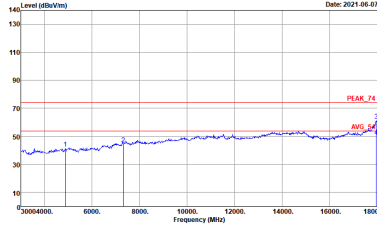


2.4GHz 2400~2483.5MHz

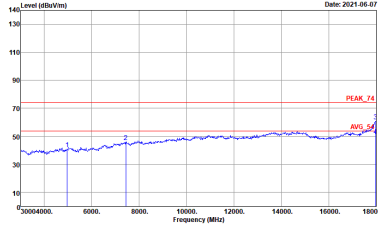
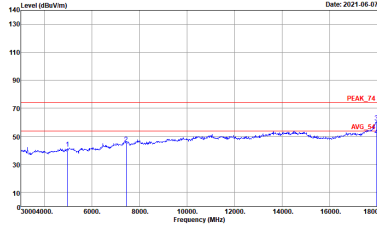
BLE (Harmonic @ 3m)

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BLE CH00 2402MHz	
	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 002205-01</p>	 <p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 002205-01</p>



BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BLE CH19 2440MHz	
	Horizontal	Vertical
Peak Avg.	<div><p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 002205-01</p></div>	<div><p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 VERTICAL Detector : Peak Project : 002205-01</p></div>

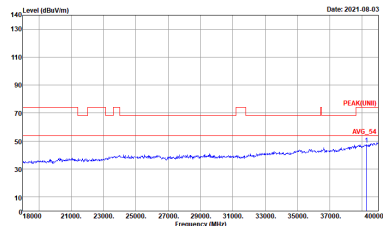
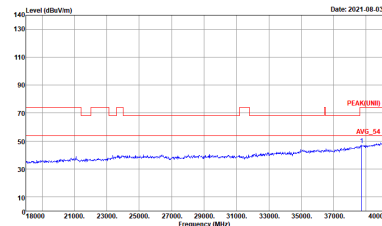


BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BLE CH39 2480MHz	
	Horizontal	Vertical
Peak Avg.	<div><p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 002205-01</p></div>	<div><p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 VERTICAL Detector : Peak Project : 002205-01</p></div>

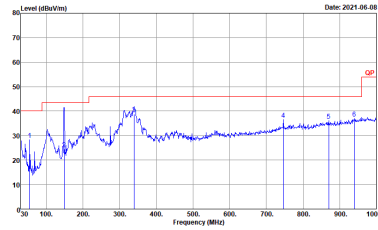
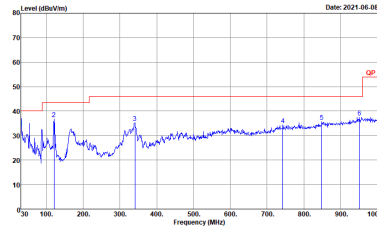


Emission above 18GHz

2.4GHz BLE (SHF)

BLE	2.4GHz 2400~2483.5MHz	
	BLE SHF	
	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH12-HY Condition : PEAK(UNIT) 1m SHF HORN BBHA9170584 HORIZONTAL Detector : Peak Project : 002205-01</p>	 <p>Site : 03CH12-HY Condition : PEAK(UNIT) 1m SHF HORN BBHA9170584 VERTICAL Detector : Peak Project : 002205-01</p>

Emission below 1GHz
2.4GHz BLE (LF)

BLE	2.4GHz 2400~2483.5MHz	
	BLE LF	
	Horizontal	Vertical
QP / Peak	 <p>Site : 03CH12-HY Condition : QP 3m BIL06_6111D_37059 HORIZONTAL Detector : Peak Project : 002205-01</p>	 <p>Site : 03CH12-HY Condition : QP 3m BIL06_6111D_37059 VERTICAL Detector : Peak Project : 002205-01</p>

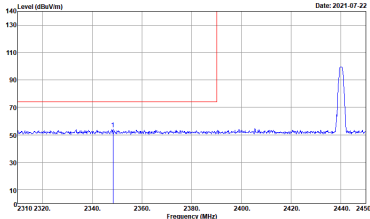
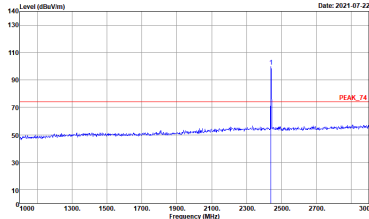
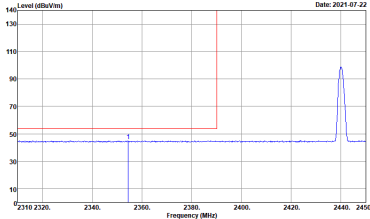
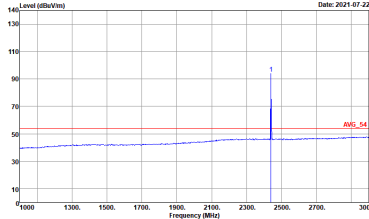


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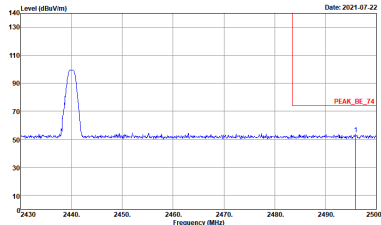
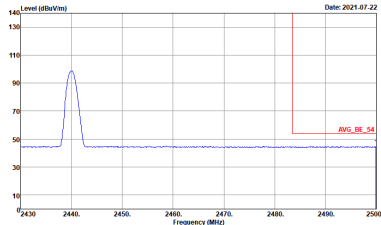
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2.4GHz 2400~2483.5MHz

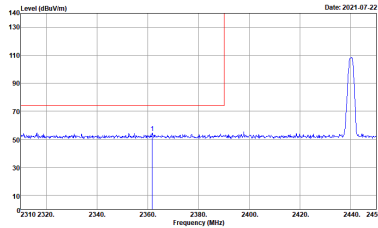
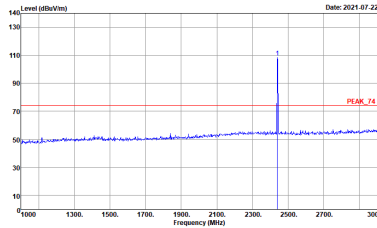
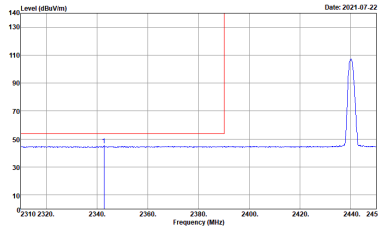
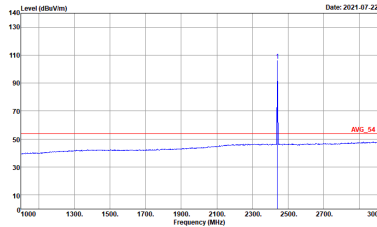
BLE (Band Edge @ 3m)

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH19 2440MHz - L	
	Horizontal	Fundamental
Peak	 <p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_1328 HORIZONTAL Detector : RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto Project : 002205-01</p>	 <p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL Detector : RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto Project : 002205-01</p>
Avg.	 <p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_1328 HORIZONTAL Detector : RBW:1000.0000Hz VBW:3.0000Hz SWT:Auto Project : 002205-01</p>	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_1328 HORIZONTAL Detector : RBW:1000.0000Hz VBW:3.0000Hz SWT:Auto Project : 002205-01</p>

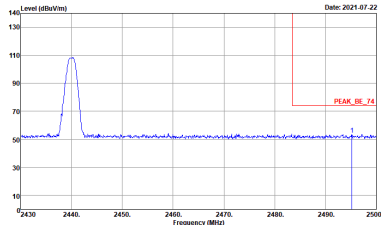
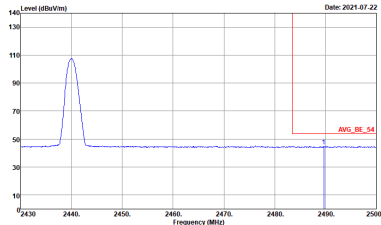


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH19 2440MHz - R	
	Horizontal	Fundamental
Peak	<div><p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 002205-01</p></div>	Left blank
Avg.	<div><p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 002205-01</p></div>	Left blank



BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH19 2440MHz - L	
	Vertical	Fundamental
Peak	<div><p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 002205-01</p></div>	<div><p>Site : 03CH12-HY Condition : PEAK_F4 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 002205-01</p></div>
Avg.	<div><p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000kHz VBW:3.000kHz SWT:Auto Project : 002205-01</p></div>	<div><p>Site : 03CH12-HY Condition : AVG_F4 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000kHz VBW:3.000kHz SWT:Auto Project : 002205-01</p></div>

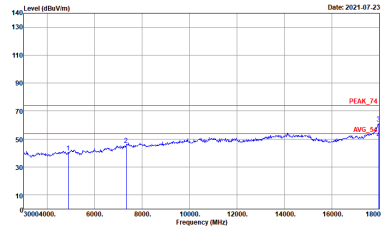
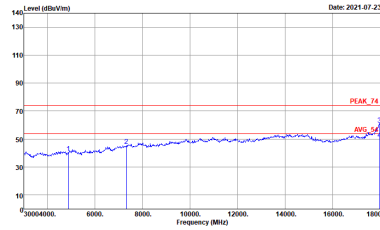


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH19 2440MHz - R	
	Vertical	Fundamental
Peak	<div><p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 002205-01</p></div>	Left blank
Avg.	<div><p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Project : 002205-01</p></div>	Left blank



2.4GHz 2400~2483.5MHz

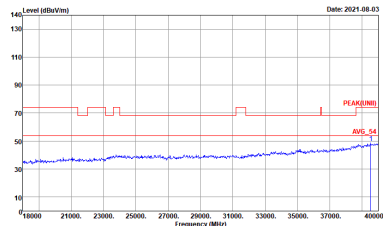
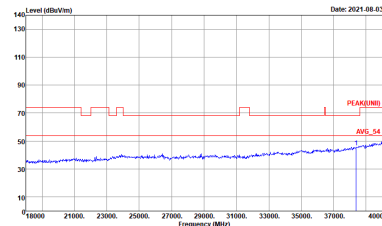
BLE (Harmonic @ 3m)

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BLE CH19 2440MHz	
	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 002205-01</p>	 <p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 VERTICAL Detector : Peak Project : 002205-01</p>



Emission above 18GHz

2.4GHz BLE (SHF)

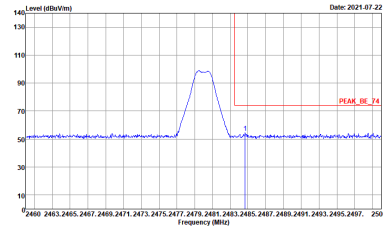
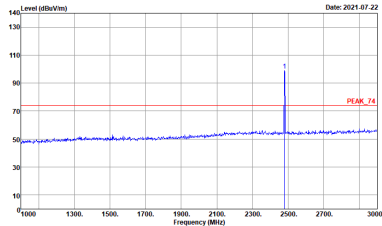
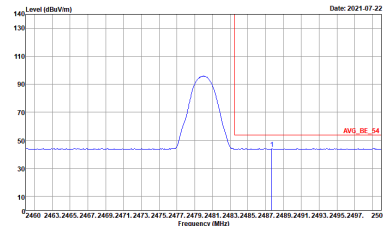
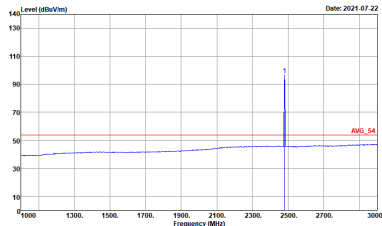
BLE	2.4GHz 2400~2483.5MHz	
	BLE SHF	
	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH12-HY Condition : PEAK(UNIT) 1m SHF HORN BBHA9170584 HORIZONTAL Detector : Peak Project : 002205-01</p>	 <p>Site : 03CH12-HY Condition : PEAK(UNIT) 1m SHF HORN BBHA9170584 VERTICAL Detector : Peak Project : 002205-01</p>



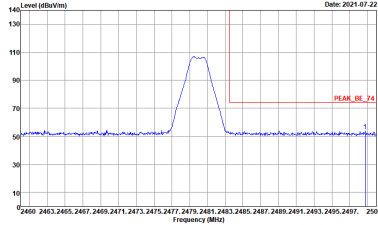
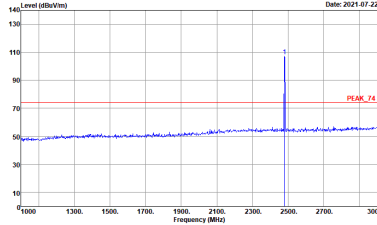
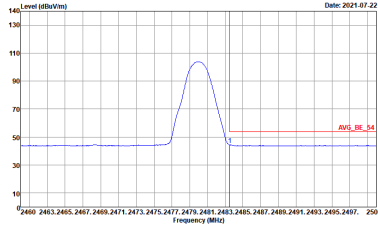
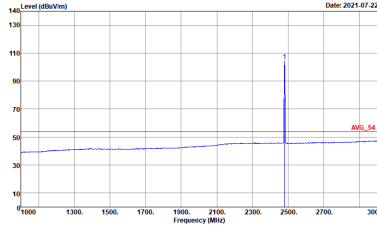
<2Mbps>

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH39 2480MHz	
	Horizontal	Fundamental
Peak	 <p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto Detector : Peak Project : 002205-01</p>	 <p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.0000Hz VBW:3000.0000Hz SWT:Auto Detector : Peak Project : 002205-01</p>
Avg.	 <p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL RBW:1000.0000Hz VBW:1.0000Hz SWT:Auto Detector : Peak Project : 002205-01</p>	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL RBW:1000.0000Hz VBW:1.0000Hz SWT:Auto Detector : Peak Project : 002205-01</p>

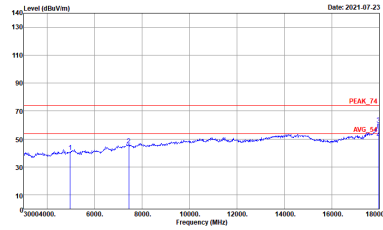
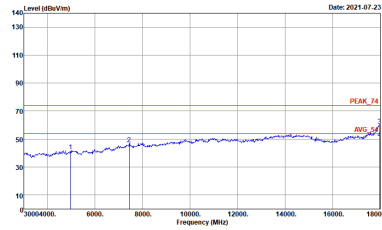


BLE	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
	BLE CH39 2480MHz	
	Vertical	Fundamental
Peak	<div><p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 002205-01</p></div>	<div><p>Site : 03CH12-HY Condition : PEAK_F4 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 002205-01</p></div>
Avg.	<div><p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 002205-01</p></div>	<div><p>Site : 03CH12-HY Condition : AVG_F4 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 002205-01</p></div>



2.4GHz 2400~2483.5MHz

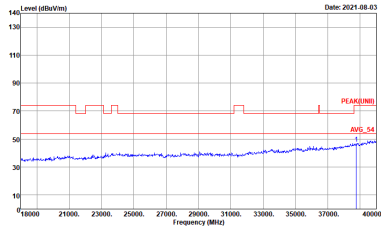
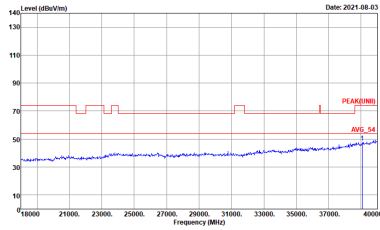
BLE (Harmonic @ 3m)

BLE	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
	BLE CH39 2480MHz	
	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 002205-01</p>	 <p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 VERTICAL Detector : Peak Project : 002205-01</p>



Emission above 18GHz

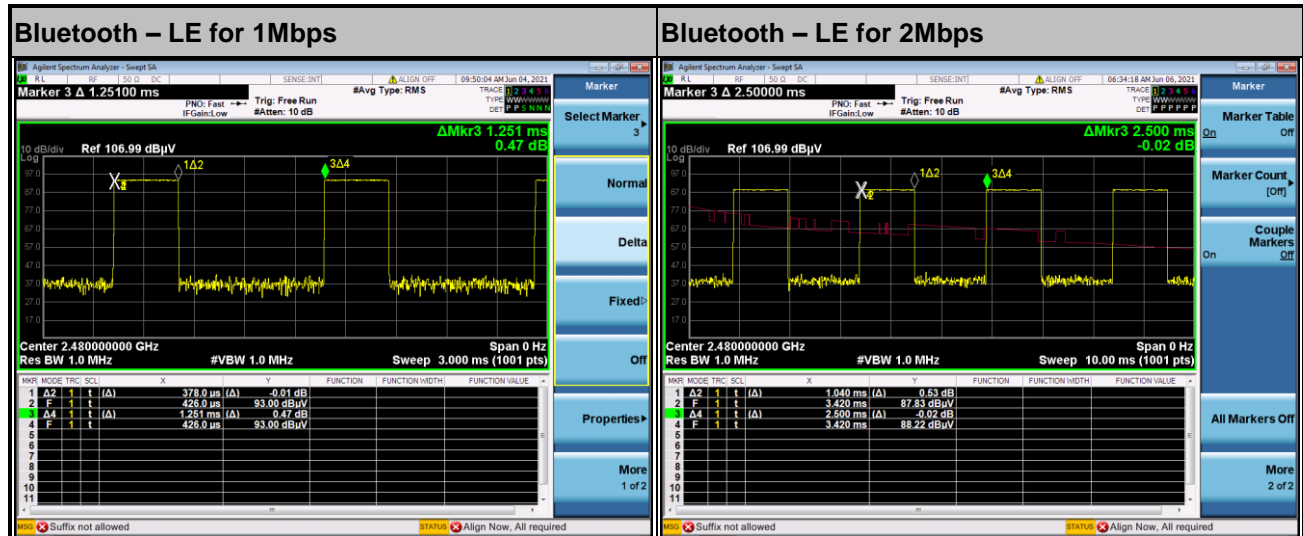
2.4GHz BLE (SHF)

BLE	2.4GHz 2400~2483.5MHz	
	BLE SHF	
	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH12-HY Condition : PEAK(UNIT) 1m SHF HORN BBHA9170584 HORIZONTAL Detector : Peak Project : 002205-01</p>	 <p>Site : 03CH12-HY Condition : PEAK(UNIT) 1m SHF HORN BBHA9170584 VERTICAL Detector : Peak Project : 002205-01</p>



Appendix E. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
Bluetooth - LE for 1Mbps	30.22	378	2.65	3kHz
Bluetooth - LE for 2Mbps	41.60	1040	0.96	1kHz



—THE END—