

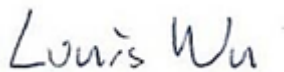


FCC RADIO TEST REPORT

FCC ID : A4RG8AK3
Equipment : Wireless Device
Model Name : G8AK3
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, CA, 94043 USA
Standard : FCC Part 15 Subpart C §15.247

The product was received on Feb. 18, 2025 and testing was performed from Mar. 04, 2025 to Apr. 08, 2025. 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 from 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	Issue Date
FR511002A	01	Initial issue of report	Apr. 28, 2025



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(1)	Number of Channels	Pass	-
3.2	15.247(a)(1)	Hopping Channel Separation	Pass	-
3.3	15.247(a)(1)	Dwell Time of Each Channel	Pass	-
3.4	15.247(a)(1)	20dB Bandwidth	Pass	-
3.4	2.1049	99% Occupied Bandwidth	Pass	-
3.5	15.247(b)(1) 15.247(b)(4)	Peak Output Power	Pass	-
3.6	15.247(d)	Conducted Band Edges	Pass	-
3.7	15.247(d)	Conducted Spurious Emission	Pass	-
3.8	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	-
3.9	15.207	AC Conducted Emission	Pass	-
3.10	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

1. ECR inquiry for data referencing from A4RG1KAW has been approved by FCC. The ECR inquiry and the associated document are submitted in the confidential exhibit.
2. A4RG8AK3 is different from FCC ID: A4RG1KAW (Reference model), in the following:
 - The only difference between A4RG1KAW and A4RG8AK3 are the LTE and NTN function, which is depopulated by hardware.
3. All the test results are referenced from A4RG1KAW (Sporton Test Report FR4D1914A), and spot check results to justify data referencing is presented in the Appendix E.
4. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
5. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Yun Huang**Report Producer: Josie Hsu**

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs Bluetooth, BLE, BLE ASK, BLE GFSK, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, NFC, UWB, 60GHz and GNSS.
Antenna Type Bluetooth: PIFA Antenna

EUT Information List	
S/N	Performed Test Item
51161WRBNL320R	RF Conducted Measurement
51161WRBNL31SK	Radiated Spurious Emission
51161WRBNL31TB	Conducted Emission

Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	-5.4

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

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, CO07-HY, 03CH11-HY

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

FCC designation No.: TW3786



1.4 Applicable Standards

According to the specifications declared by 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 15.247 Meas Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01
- ♦ ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	0	2402	27	2429	54	2456
	1	2403	28	2430	55	2457
	2	2404	29	2431	56	2458
	3	2405	30	2432	57	2459
	4	2406	31	2433	58	2460
	5	2407	32	2434	59	2461
	6	2408	33	2435	60	2462
	7	2409	34	2436	61	2463
	8	2410	35	2437	62	2464
	9	2411	36	2438	63	2465
	10	2412	37	2439	64	2466
	11	2413	38	2440	65	2467
	12	2414	39	2441	66	2468
	13	2415	40	2442	67	2469
	14	2416	41	2443	68	2470
	15	2417	42	2444	69	2471
	16	2418	43	2445	70	2472
	17	2419	44	2446	71	2473
	18	2420	45	2447	72	2474
	19	2421	46	2448	73	2475
	20	2422	47	2449	74	2476
	21	2423	48	2450	75	2477
	22	2424	49	2451	76	2478
	23	2425	50	2452	77	2479
	24	2426	51	2453	78	2480
	25	2427	52	2454	-	-
	26	2428	53	2455	-	-

2.2 Test Mode

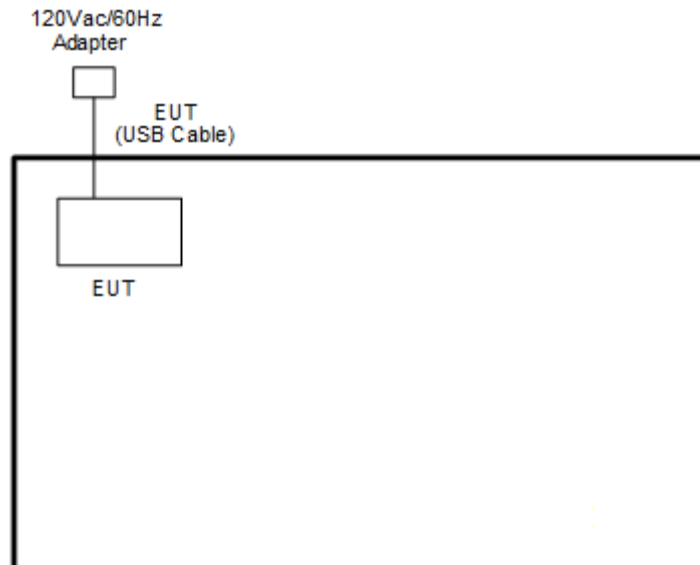
- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, 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 only the worst plane, and the worst mode of radiated spurious emissions is Bluetooth 1Mbps mode, and recorded in this report.
- 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.

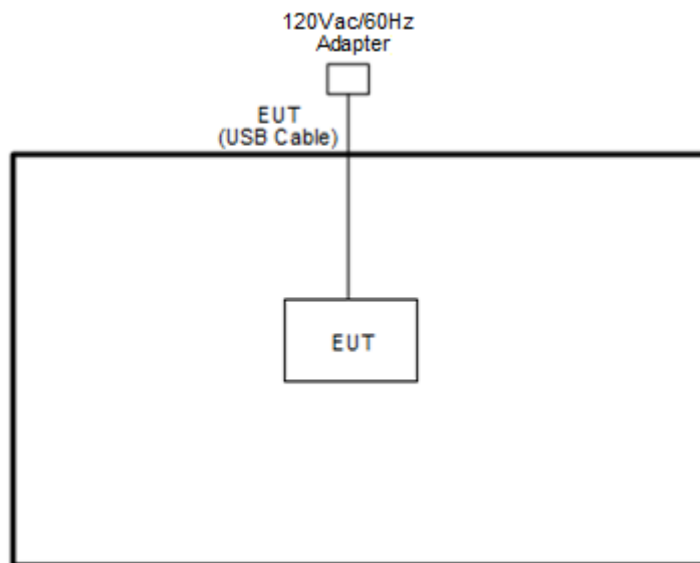
Summary table of Test Cases			
Test Item	Data Rate / Modulation		
Conducted Test Cases	Bluetooth BR 1Mbps GFSK	Bluetooth EDR 2Mbps $\pi/4$ -DQPSK	Bluetooth EDR 3Mbps 8-DPSK
	Mode 1: CH00_2402 MHz	Mode 4: CH00_2402 MHz	Mode 7: CH00_2402 MHz
	Mode 2: CH39_2441 MHz	Mode 5: CH39_2441 MHz	Mode 8: CH39_2441 MHz
	Mode 3: CH78_2480 MHz	Mode 6: CH78_2480 MHz	Mode 9: CH78_2480 MHz
AC Conducted Emission	Mode 1: Bluetooth 1Mbps CH39 Tx + USB Cable (Charging from AC Adapter)		
Remark: 1. For Radiated Test Cases, the worst mode data rate 1Mbps was reported only since the highest RF output power in the preliminary tests. The conducted spurious emissions and conducted band edge measurement for other data rates were not worse than 1Mbps, and no other significantly frequencies found in conducted spurious emission. 2. The detailed radiated test modes are shown in Appendix C.			

2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



<Bluetooth 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.	Adapter	N/A	N/A	N/A	N/A	N/A



2.5 EUT Operation Test Setup

The RF test items, utility “adb version 1.0.39” 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 Number of Channel Measurement

3.1.1 Limits of Number of Hopping Frequency

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

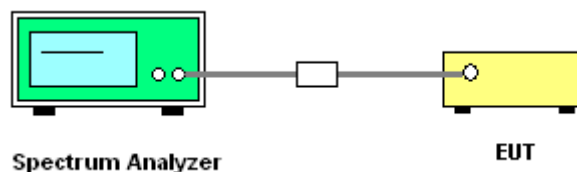
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedure

1. The testing follows ANSI C63.10-2013 clause 7.8.3.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings: Span = the frequency band of operation;
RBW = 300 kHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold.
6. The number of hopping frequency used is defined as the number of total channel.
7. Record the measurement data derived from spectrum analyzer.

3.1.4 Test Setup



3.1.5 Test Result of Number of Hopping Frequency

Please refer to Appendix A.

3.2 Hopping Channel Separation Measurement

3.2.1 Limit of Hopping Channel Separation

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

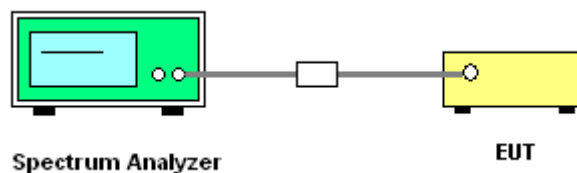
3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.2.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 7.8.2.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings:
Span = wide enough to capture the peaks of two adjacent channels;
RBW = 300 kHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold.
6. Measure and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Hopping Channel Separation

Please refer to Appendix A.

3.3 Dwell Time Measurement

3.3.1 Limit of Dwell Time

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

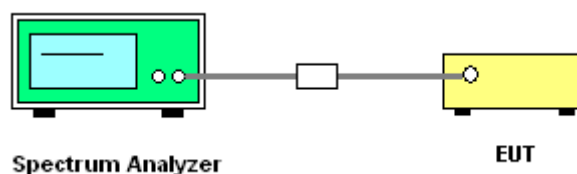
3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.3.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 7.8.4.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW $\geq$ RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold.
6. Measure and record the results in the test report.

3.3.4 Test Setup



3.3.5 Test Result of Dwell Time

Please refer to Appendix A.

3.4 20dB and 99% Bandwidth Measurement

3.4.1 Limit of 20dB and 99% Bandwidth

Reporting only

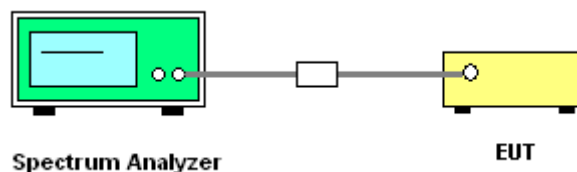
3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.4.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 6.9.2 and 6.9.3.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Use the following spectrum analyzer settings for 20 dB Bandwidth measurement.
Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel;
RBW $\geq$ 1% of the 20 dB bandwidth; VBW $\geq$ RBW; Sweep = auto; Detector function = peak;
Trace = max hold.
5. Use the following spectrum analyzer settings for 99 % Bandwidth measurement.
Span = approximately 1.5 to 5 times the 99% bandwidth, centered on a hopping channel;
RBW $\geq$ 1-5% of the 99% bandwidth; VBW $\geq$ 3 * RBW; Sweep = auto; Detector function = peak;
Trace = max hold.
6. Measure and record the results in the test report.

3.4.4 Test Setup



3.4.5 Test Result of 20dB Bandwidth

Please refer to Appendix A.

3.4.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

3.5 Output Power Measurement

3.5.1 Limit of Output Power

The maximum peak conducted output power of the intentional radiator shall not exceed the following:
For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.
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.

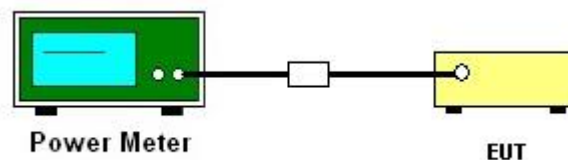
3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.5.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 7.8.5.
2. The RF output of EUT is connected to the power meter by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Measure the conducted output power with cable loss and record the results in the test report.
5. Measure and record the results in the test report.

3.5.4 Test Setup



3.5.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.5.6 Test Result of Average Output Power (Reporting Only)

Please refer to Appendix A.

3.6 Conducted Band Edges Measurement

3.6.1 Limit of Band Edges

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

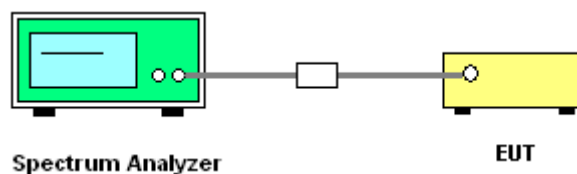
3.6.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.6.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 7.8.6.
2. Set the maximum power setting and enable the EUT to transmit continuously.
3. Set RBW = 100 kHz, VBW = 300 kHz. Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.
4. Enable hopping function of the EUT and then repeat step 2 and 3.
5. Measure and record the results in the test report.

3.6.4 Test Setup



3.6.5 Test Result of Conducted Band Edges

Please refer to Appendix A.

3.6.6 Test Result of Conducted Hopping Mode Band Edges

Please refer to Appendix A.

3.7 Conducted Spurious Emission Measurement

3.7.1 Limit of Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

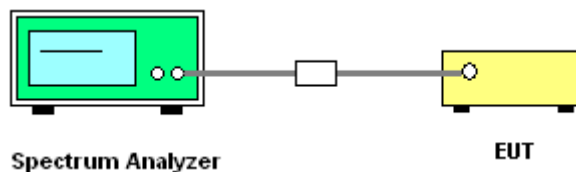
3.7.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.7.3 Test Procedure

1. The testing follows ANSI C63.10-2013 clause 7.8.8.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is 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, scan up through 10th harmonic. All harmonics / spurious must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.
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.

3.7.4 Test Setup



3.7.5 Test Result of Conducted Spurious Emission

Please refer to Appendix A.

3.8 Radiated Band Edges and Spurious Emission Measurement

3.8.1 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. 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

3.8.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

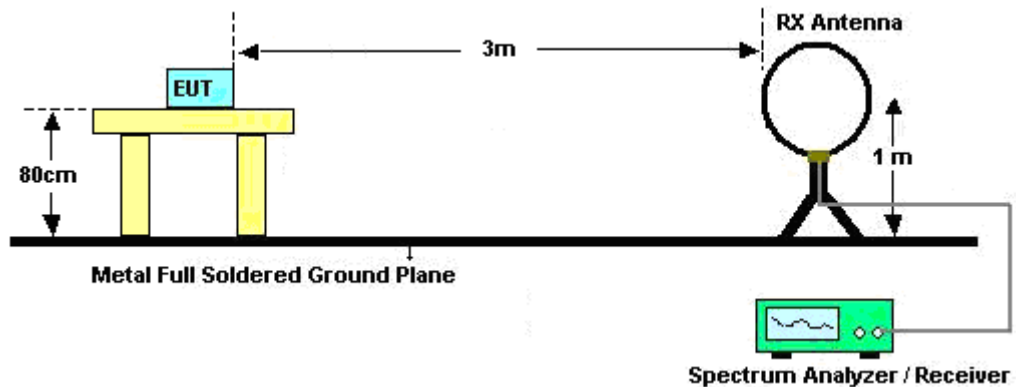
3.8.3 Test Procedures

1. The EUT is 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.
2. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
3. For each suspected emission, the EUT is 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 to comply with the guidelines.
4. Set the maximum power setting and enable the EUT to transmit continuously.
5. 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, RBW = 1 MHz for $f > 1$ GHz ; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
 - (3) For average measurement: use duty cycle correction factor method per 15.35(c).
Duty cycle = On time/100 milliseconds
On time = $N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n$
Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc.
Average Emission Level = Peak Emission Level + $20 * \log$ (Duty cycle)
6. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
7. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-”.
8. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.

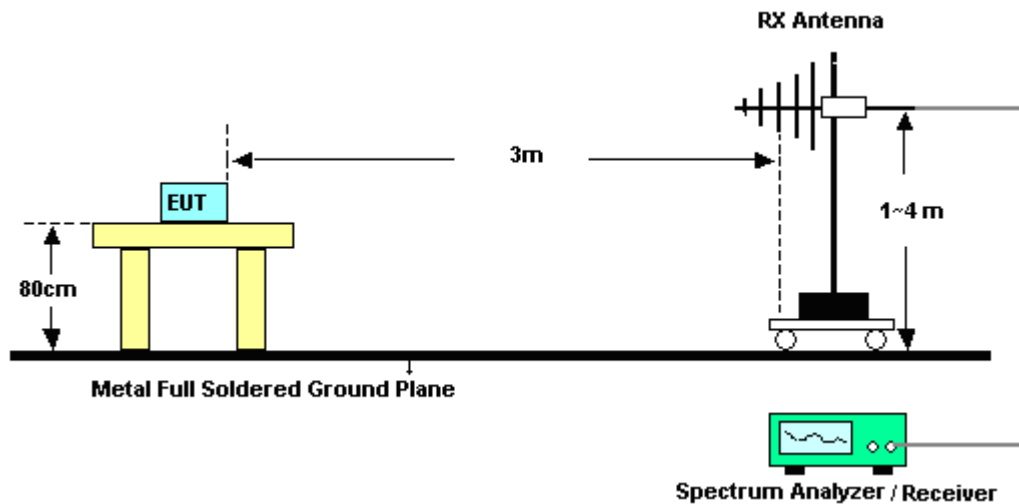
Note: The average levels are calculated from the peak level corrected with duty cycle correction factor (-24.78dB) derived from $20 \log$ (dwell time/100ms). This correction is only for signals that hop with the fundamental signal, such as band-edge and harmonic. Other spurious signals that are independent of the hopping signal would not use this correction.

3.8.4 Test Setup

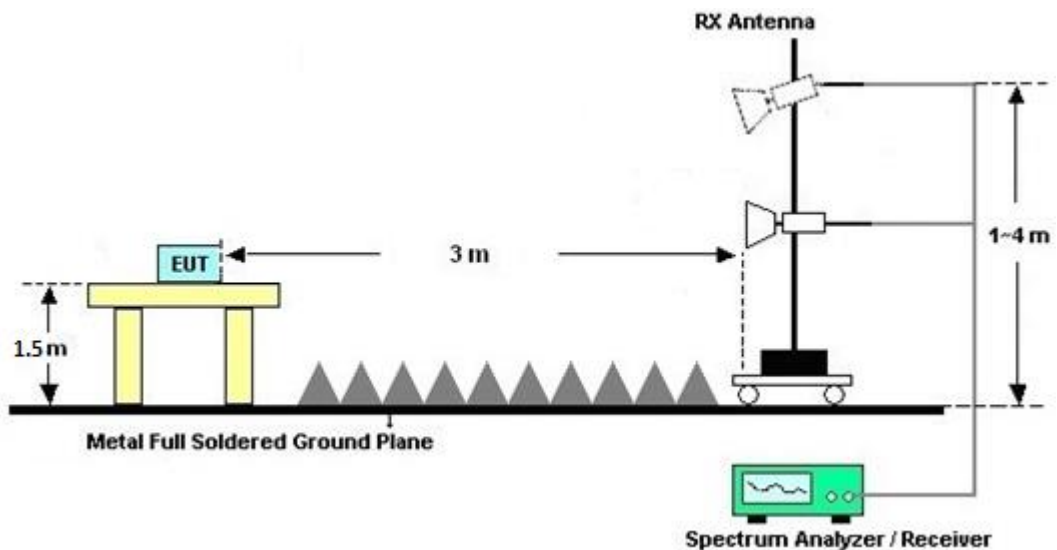
For radiated test below 30MHz



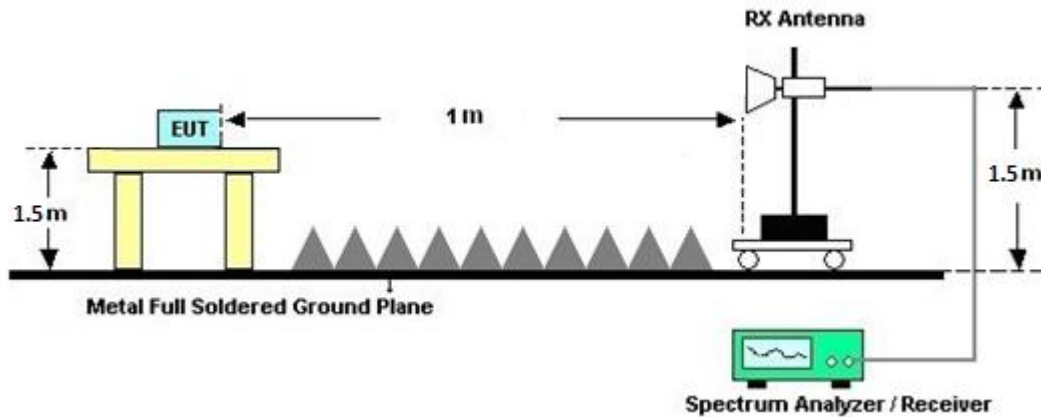
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is 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 comes out very similar.

3.8.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C

3.8.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix C

3.9 AC Conducted Emission Measurement

3.9.1 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.

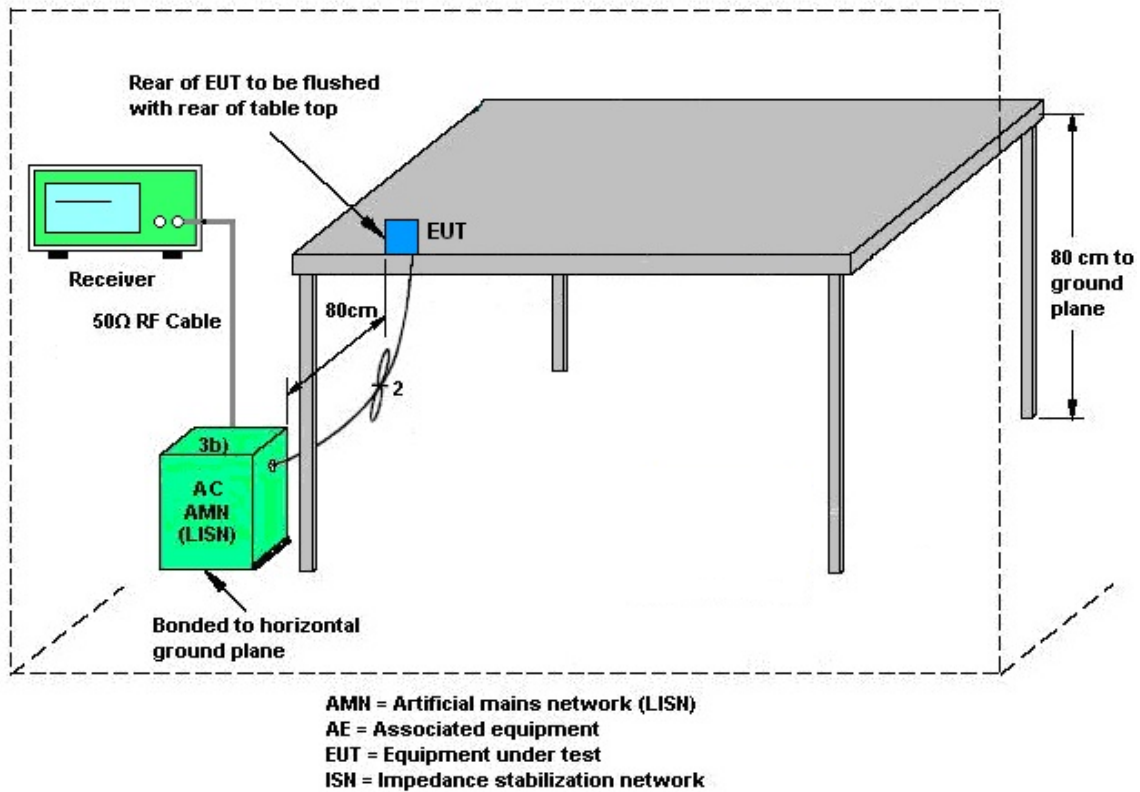
3.9.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.9.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is 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 Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9 kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.9.4 Test Setup



3.9.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.10 Antenna Requirements

3.10.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.10.2 Antenna Anti-Replacement Construction

- b) Unique (non-standard) antenna connector.
- (3) Use of a standard connector is also allowed if the connector is within the transmitter enclosure and can only be accessed by disassembly of the transmitter, where such disassembly is not normally required. The user manual must not show that user has access to the connector.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	Mar. 04, 2025~ Mar. 07, 2025	Oct. 31, 2025	Conducted (TH05-HY)
Power Meter	Anritsu	ML2495A	1036004	N/A	Jul. 04, 2024	Mar. 04, 2025~ Mar. 07, 2025	Jul. 03, 2025	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1027253	300MHz~40GHz z	Jul. 04, 2024	Mar. 04, 2025~ Mar. 07, 2025	Jul. 03, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 23, 2024	Mar. 04, 2025~ Mar. 07, 2025	Aug. 22, 2025	Conducted (TH05-HY)
Switch Control Mainframe	Burgeon	ETF-058	EC1300484 (BOX3)	N/A	May 20, 2024	Mar. 04, 2025~ Mar. 07, 2025	May 19, 2025	Conducted (TH05-HY)
Software	Sporton	BTWIFL_Final_v ersion_240513	N/A	Conducted Other Test Item	N/A	Mar. 04, 2025~ Mar. 07, 2025	N/A	Conducted (TH05-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	37059 & 01	30MHz~1GHz	Nov. 27, 2024	Mar. 11, 2025~ Mar. 28, 2024	Nov. 26, 2025	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Aug. 29, 2024	Mar. 11, 2025~ Mar. 28, 2024	Aug. 28, 2025	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-01620	1GHz~18GHz	Aug. 28, 2024	Mar. 11, 2025~ Mar. 28, 2024	Aug. 27, 2025	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1224	18GHz~40GHz	Jun. 24, 2024	Mar. 11, 2025~ Mar. 28, 2024	Jun. 23, 2025	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 07, 2024	Mar. 11, 2025~ Mar. 28, 2024	Dec. 06, 2025	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Mar. 25, 2024	Mar. 11, 2025~ Mar. 23, 2024	Mar. 24, 2025	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Mar. 24, 2025	Mar. 24, 2025~ Mar. 28, 2024	Mar. 23, 2026	Radiation (03CH11-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18 G-56-01-A70	EC1900249	1GHz~18GHz	Jan. 21, 2025	Mar. 11, 2025~ Mar. 28, 2024	Jan. 20, 2026	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Sep. 02, 2024	Mar. 11, 2025~ Mar. 28, 2024	Sep. 01, 2025	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 14, 2024	Mar. 11, 2025~ Mar. 28, 2024	Oct. 13, 2025	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY55420170	20MHz~8.4GHz	Jul. 19, 2024	Mar. 11, 2025~ Mar. 28, 2024	Jul. 18, 2025	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Mar. 11, 2025~ Mar. 28, 2024	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Mar. 11, 2025~ Mar. 28, 2024	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Mar. 11, 2025~ Mar. 28, 2024	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Mar. 11, 2025~ Mar. 28, 2024	N/A	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP200880	N/A	Aug. 29, 2024	Mar. 11, 2025~ Mar. 28, 2024	Aug. 28, 2025	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804013/2	30M~40G	Mar. 05, 2025	Mar. 11, 2025~ Mar. 28, 2024	Mar. 04, 2026	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz~40GHz	Mar. 05, 2025	Mar. 11, 2025~ Mar. 28, 2024	Mar. 04, 2026	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 05, 2025	Mar. 11, 2025~ Mar. 28, 2024	Mar. 04, 2026	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	30M~40G	Mar. 05, 2025	Mar. 11, 2025~ Mar. 28, 2024	Mar. 04, 2026	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 OSS	SN3	3GHz High Pass Filter	Sep. 10, 2024	Mar. 11, 2025~ Mar. 28, 2024	Sep. 09, 2025	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-15 30-8000-40SS	SN11	1.53GHz Low Pass Filter	Sep. 10, 2024	Mar. 11, 2025~ Mar. 28, 2024	Sep. 09, 2025	Radiation (03CH11-HY)
Attenuator	HONOVA	5910 SMA-50-005	0028	N/A	Sep. 10, 2024	Mar. 11, 2025~ Mar. 28, 2024	Sep. 09, 2025	Radiation (03CH11-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Mar. 31, 2025	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Mar. 31, 2025	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 23, 2024	Mar. 31, 2025	Oct. 22, 2025	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 3, 2025	Mar. 31, 2025	Mar. 2, 2026	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 24, 2025	Mar. 31, 2025	Mar. 23, 2026	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 23, 2024	Mar. 31, 2025	Sep. 22, 2025	Conduction (CO07-HY)

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.7 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.4 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Willy Chang	Temperature:	21~25	°C
Test Date:	2025/3/4~2025/3/7	Relative Humidity:	51~54	%

TEST RESULTS DATA**20dB and 99% Occupied Bandwidth and Hopping Channel Separation**

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	20db BW (MHz)	99% Bandwidth (MHz)	Hopping Channel Separation Measurement (MHz)	Hopping Channel Separation Measurement Limit (MHz)	Pass/Fail
DH	1Mbps	1	0	2402	1.019	0.908	0.999	0.6796	Pass
DH	1Mbps	1	39	2441	1.021	0.909	0.999	0.6808	Pass
DH	1Mbps	1	78	2480	1.019	0.916	0.999	0.6792	Pass
2DH	2Mbps	1	0	2402	1.260	1.173	1.003	0.8400	Pass
2DH	2Mbps	1	39	2441	1.278	1.172	0.999	0.8518	Pass
2DH	2Mbps	1	78	2480	1.281	1.174	0.999	0.8538	Pass
3DH	3Mbps	1	0	2402	1.242	1.162	0.981	0.8280	Pass
3DH	3Mbps	1	39	2441	1.229	1.163	1.020	0.8194	Pass
3DH	3Mbps	1	78	2480	1.245	1.163	1.003	0.8298	Pass

TEST RESULTS DATA**Dwell Time**

Mod.	Hopping Channel Number Rate	Hops Over Occupancy Time (hops)	Package Transfer Time (msec)	Dwell Time (sec)	Limits (sec)	Pass/Fail
3DH5	79	106.670	2.90	0.31	0.4	Pass
3DH5 (AFH)	20	53.330	2.90	0.15	0.4	Pass

TEST RESULTS DATA**Peak Power Table**

DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
DH1	0	1	19.76	20.97	Pass
	39	1	19.55	20.97	Pass
	78	1	19.65	20.97	Pass
2DH1	0	1	19.11	20.97	Pass
	39	1	18.27	20.97	Pass
	78	1	17.87	20.97	Pass
3DH1	0	1	19.22	20.97	Pass
	39	1	18.66	20.97	Pass
	78	1	18.17	20.97	Pass

TEST RESULTS DATA**Average Power Table****(Reporting Only)**

DH	CH.	NTX	Average Power (dBm)	Duty Factor (dB)
DH1	0	1	19.68	5.13
	39	1	19.25	5.13
	78	1	19.49	5.13
2DH1	0	1	16.19	5.08
	39	1	15.29	5.08
	78	1	15.24	5.08
3DH1	0	1	16.29	5.08
	39	1	15.46	5.08
	78	1	15.37	5.08

TEST RESULTS DATA**Number of Hopping Frequency**

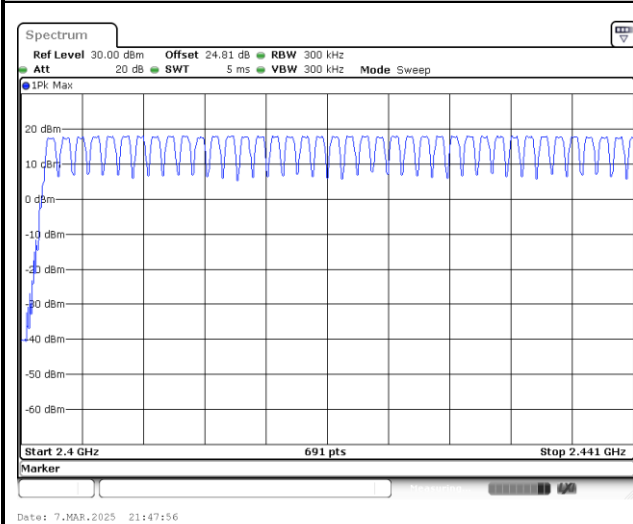
Number of Hopping (Channel)	Adaptive Frequency Hopping (Channel)	Limits (Channel)	Pass/Fail
79	20	> 15	Pass



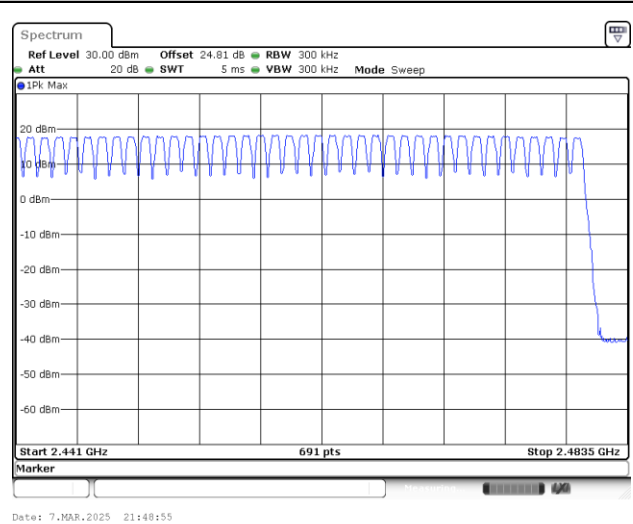
Number of Hopping Frequency

Number of Hopping Channel Plot

Channel 00 - 39

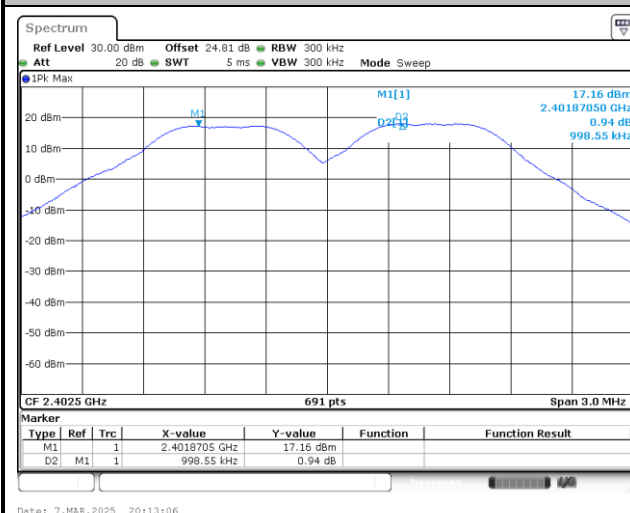
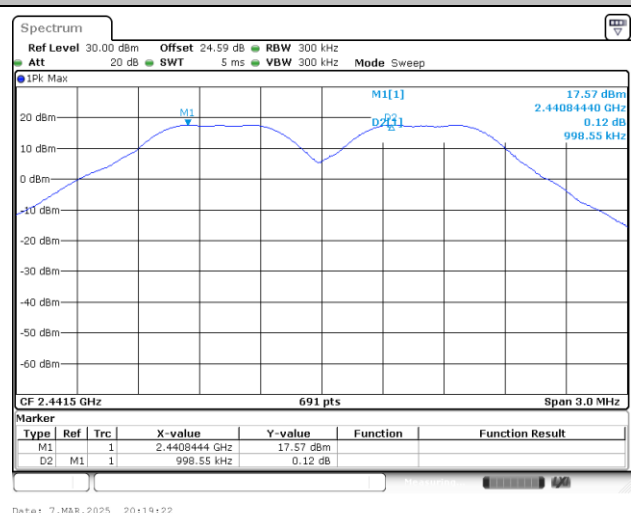
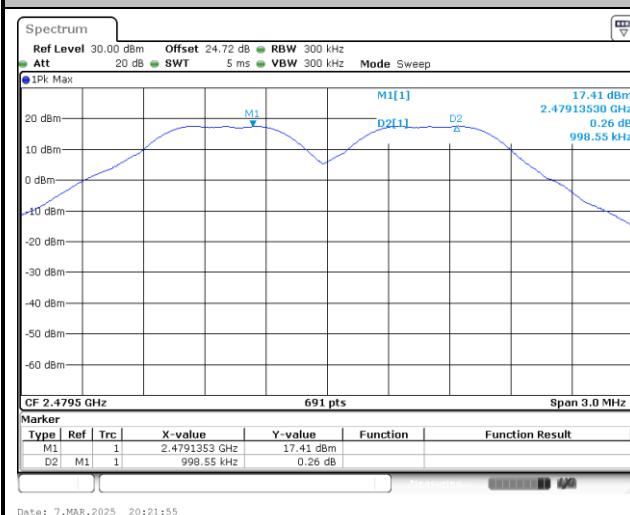


Channel 39 - 78



**Hopping Channel Separation**

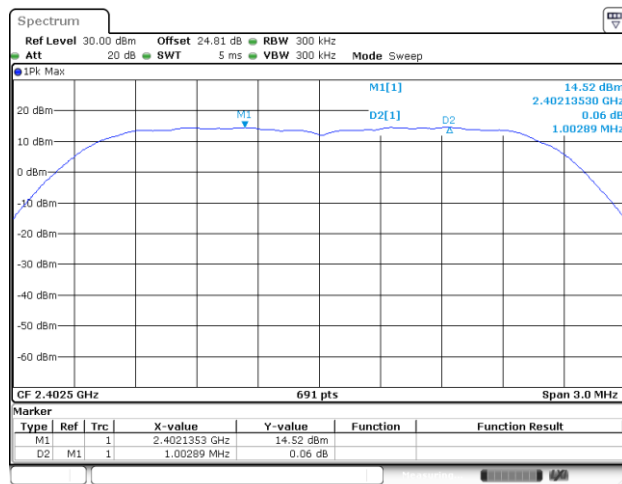
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Channel Separation Plot on Channel 00 - 01**Channel Separation Plot on Channel 39 - 40****Channel Separation Plot on Channel 77 - 78**

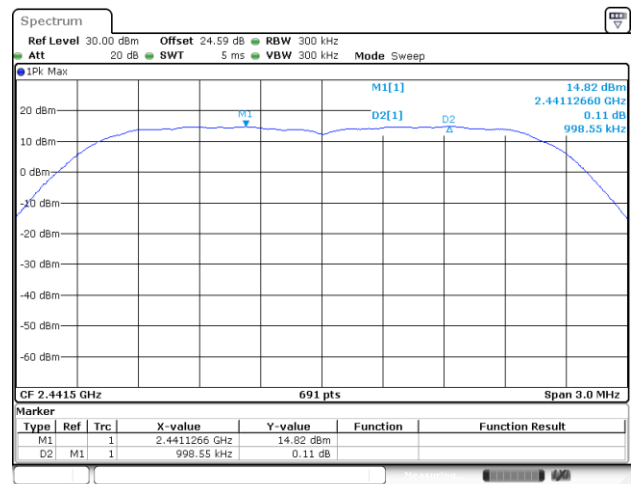


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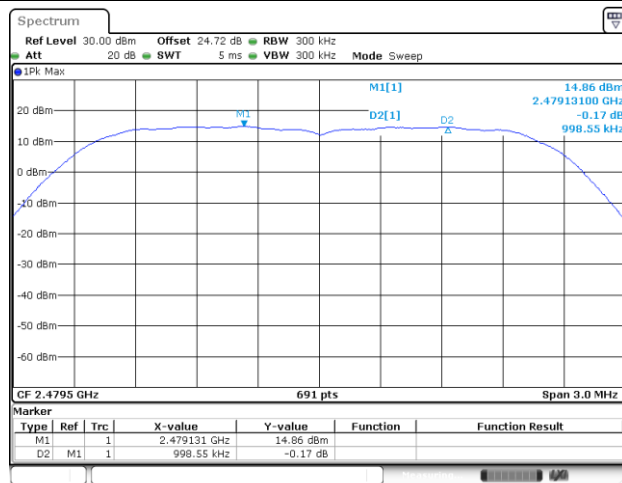
Channel Separation Plot on Channel 00 - 01



Channel Separation Plot on Channel 39 - 40



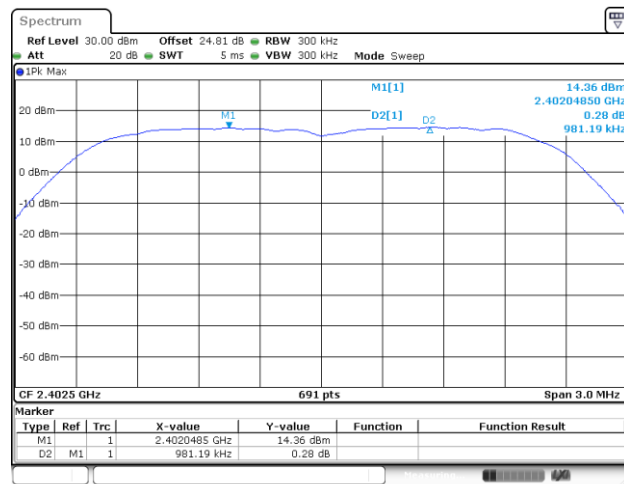
Channel Separation Plot on Channel 77 - 78



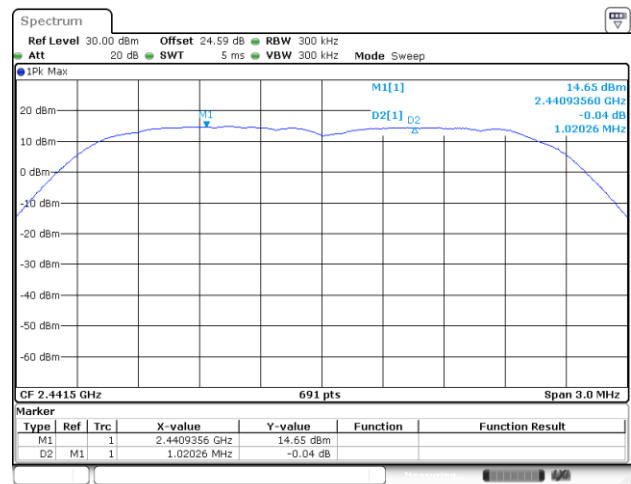


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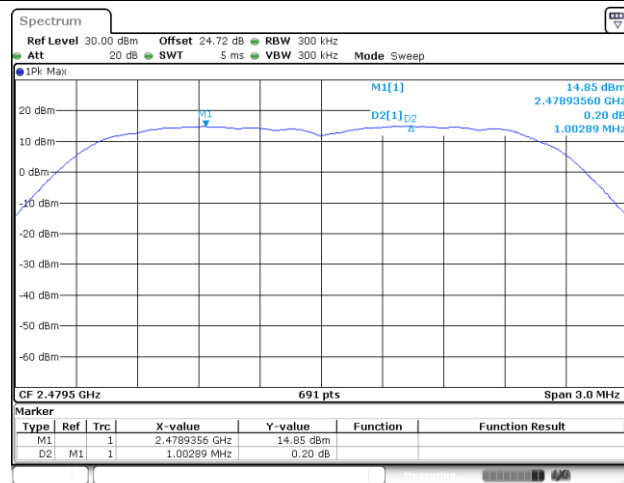
Channel Separation Plot on Channel 00 - 01



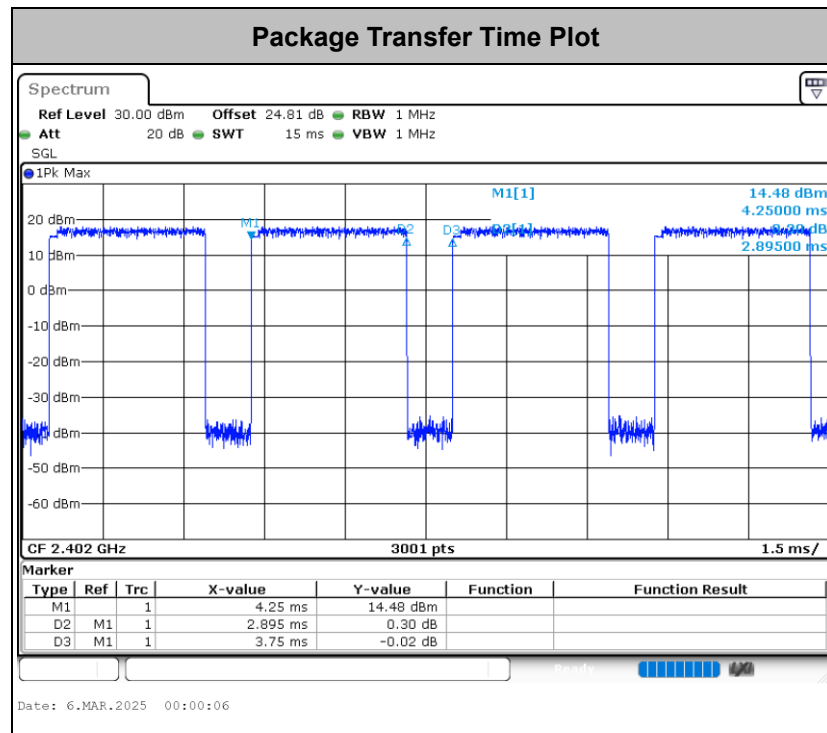
Channel Separation Plot on Channel 39 - 40



Channel Separation Plot on Channel 77 - 78



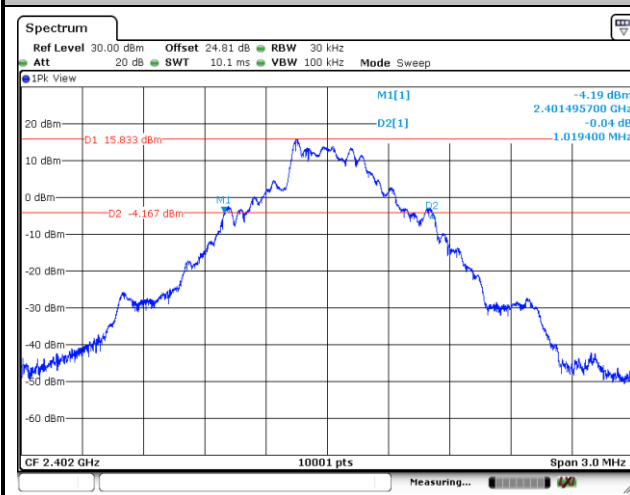
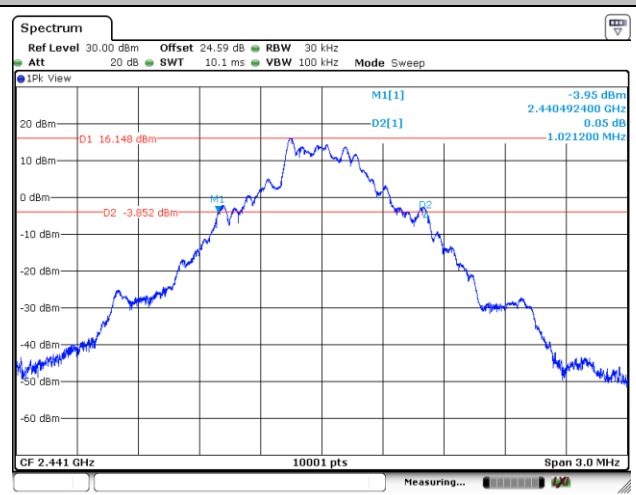
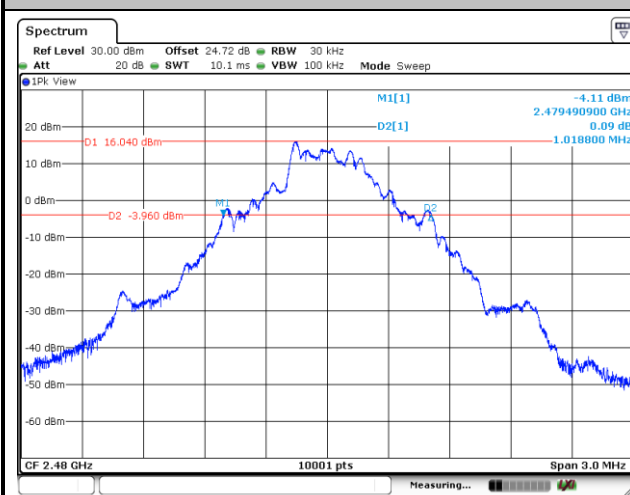
Dwell Time


Remark:

1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels. With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4 x 79) (s), Hops Over Occupancy Time comes to (1600 / 6 / 79) x (0.4 x 79) = 106.67 hops.
2. In AFH mode, hopping rate is 800 hops/s with 6 slots in 20 hopping channels. With channel hopping rate (800 / 6 / 20) in Occupancy Time Limit (0.4 x 20) (s), Hops Over Occupancy Time comes to (800 / 6 / 20) x (0.4 x 20) = 53.33 hops.
3. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

**20dB Bandwidth**

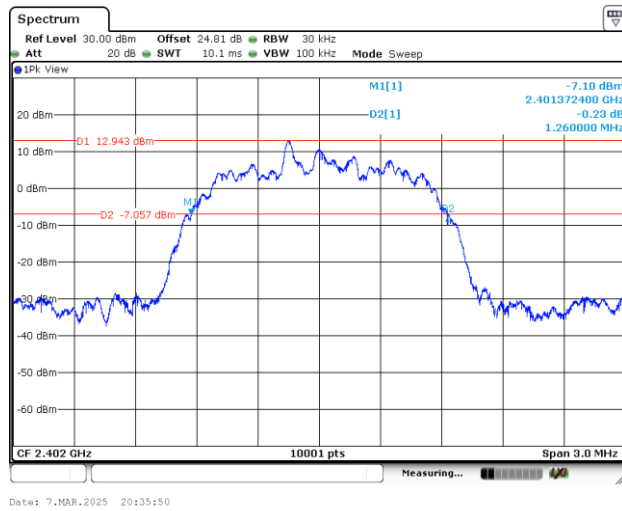
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20 dB Bandwidth Plot in Channel 00**20 dB Bandwidth Plot in Channel 39****20 dB Bandwidth Plot in Channel 78**

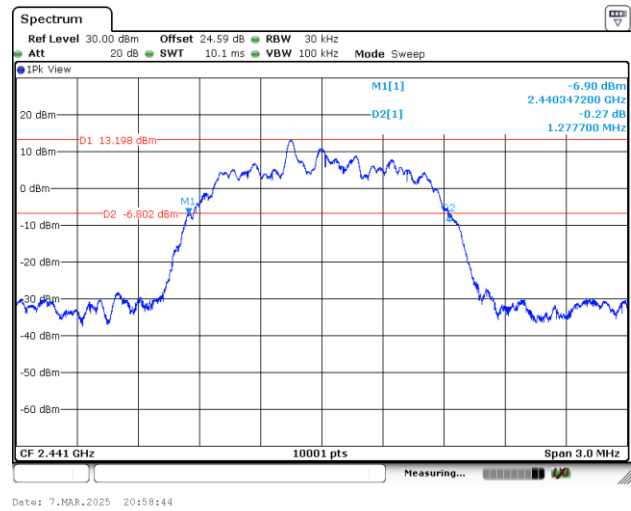


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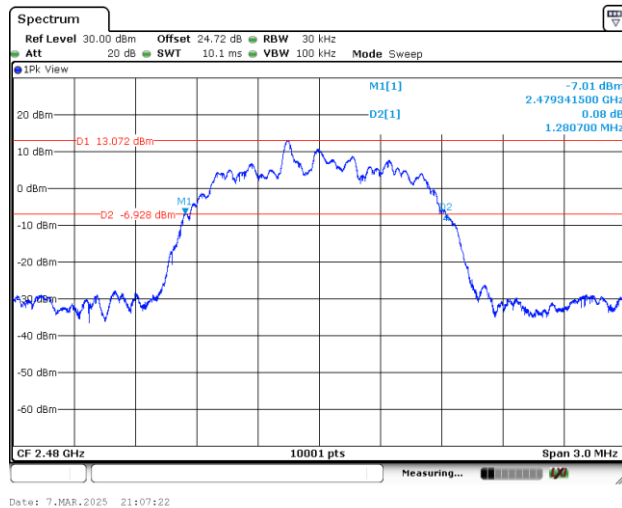
20 dB Bandwidth Plot in Channel 00



20 dB Bandwidth Plot in Channel 39



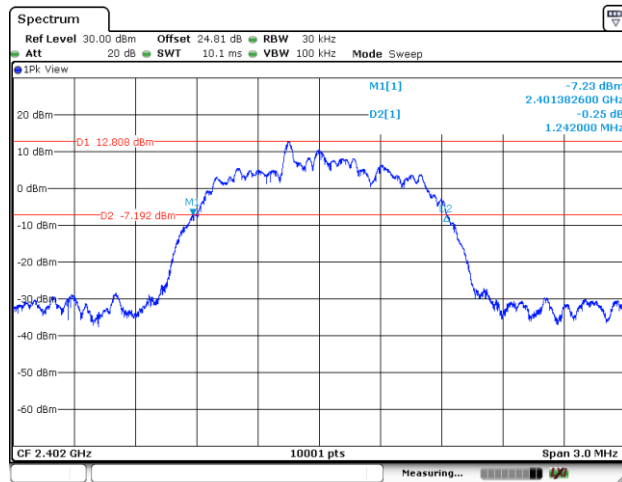
20 dB Bandwidth Plot in Channel 78



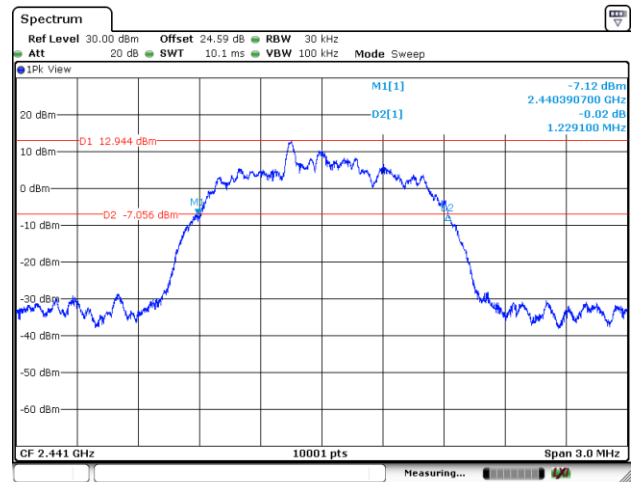


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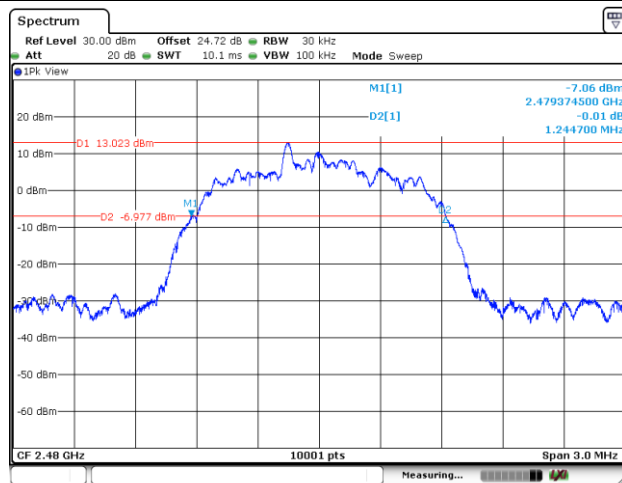
20 dB Bandwidth Plot in Channel 00



20 dB Bandwidth Plot in Channel 39

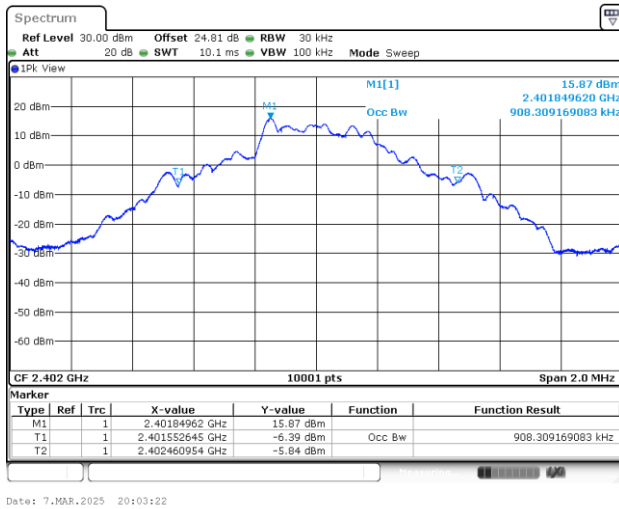
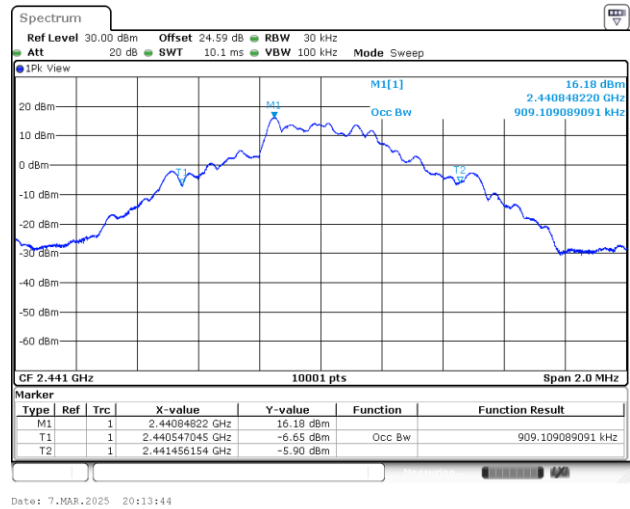
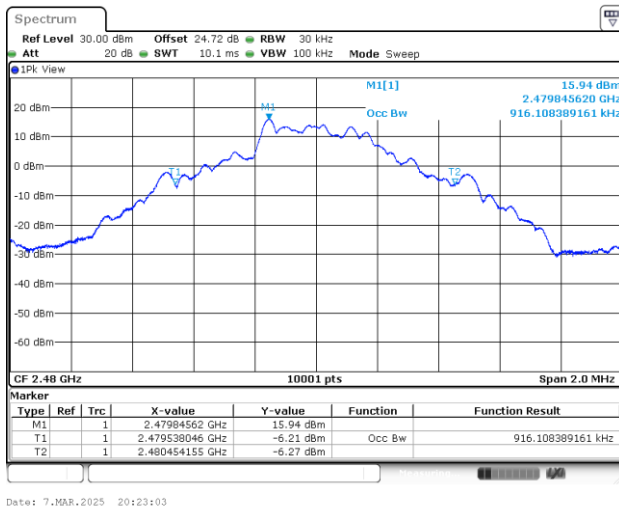


20 dB Bandwidth Plot in Channel 78



**99% Occupied Bandwidth**

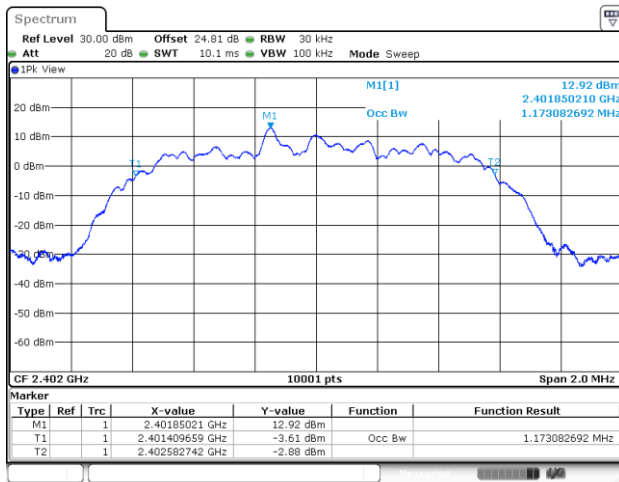
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99% Occupied Bandwidth on Channel 00**99% Occupied Bandwidth on Channel 39****99% Occupied Bandwidth on Channel 78**

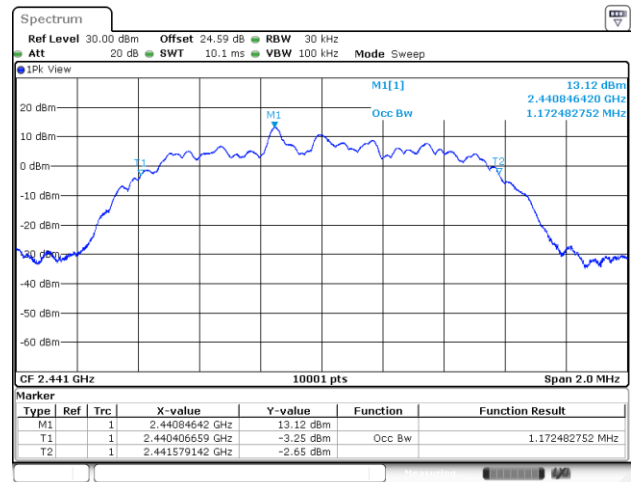


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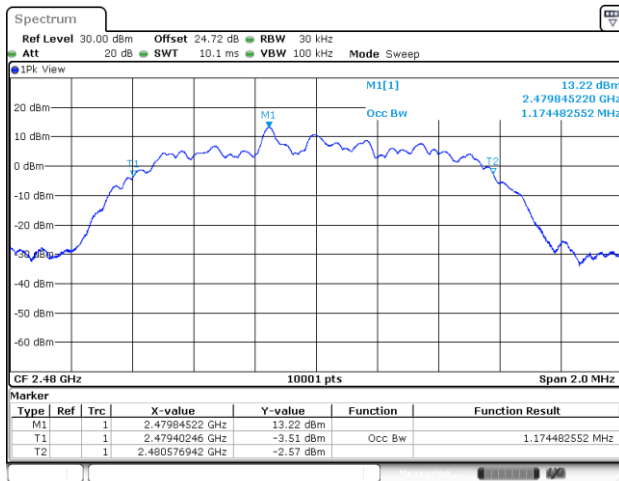
99% Occupied Bandwidth on Channel 00



99% Occupied Bandwidth on Channel 39



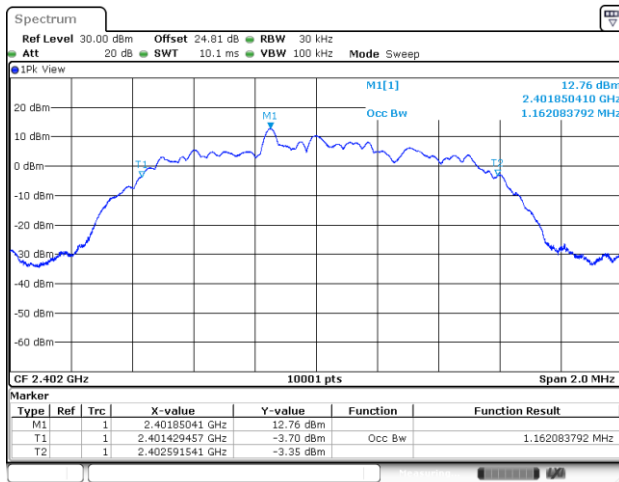
99% Occupied Bandwidth on Channel 78



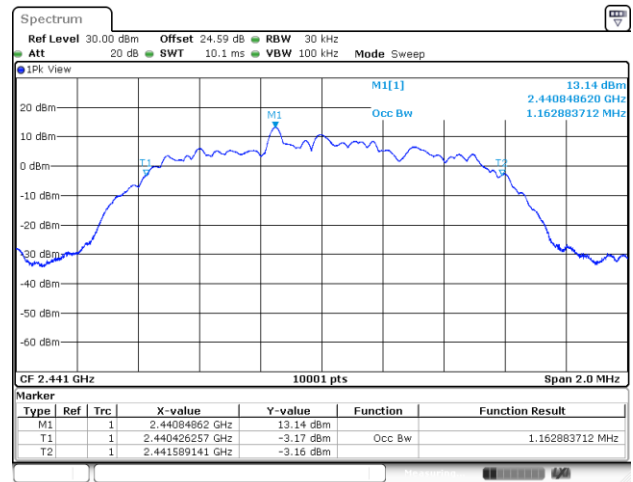


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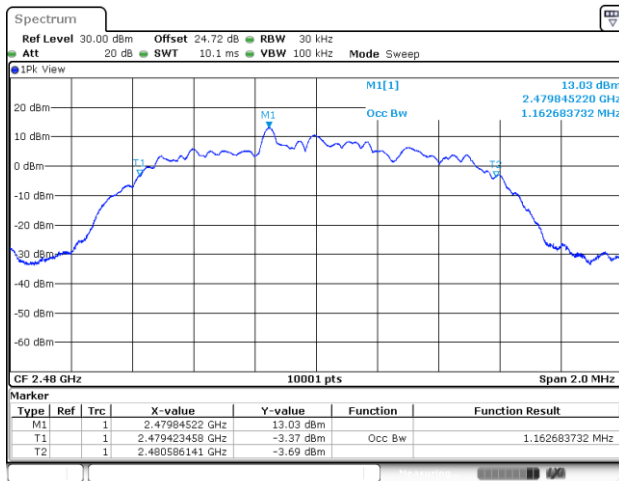
99% Occupied Bandwidth on Channel 00



99% Occupied Bandwidth on Channel 39



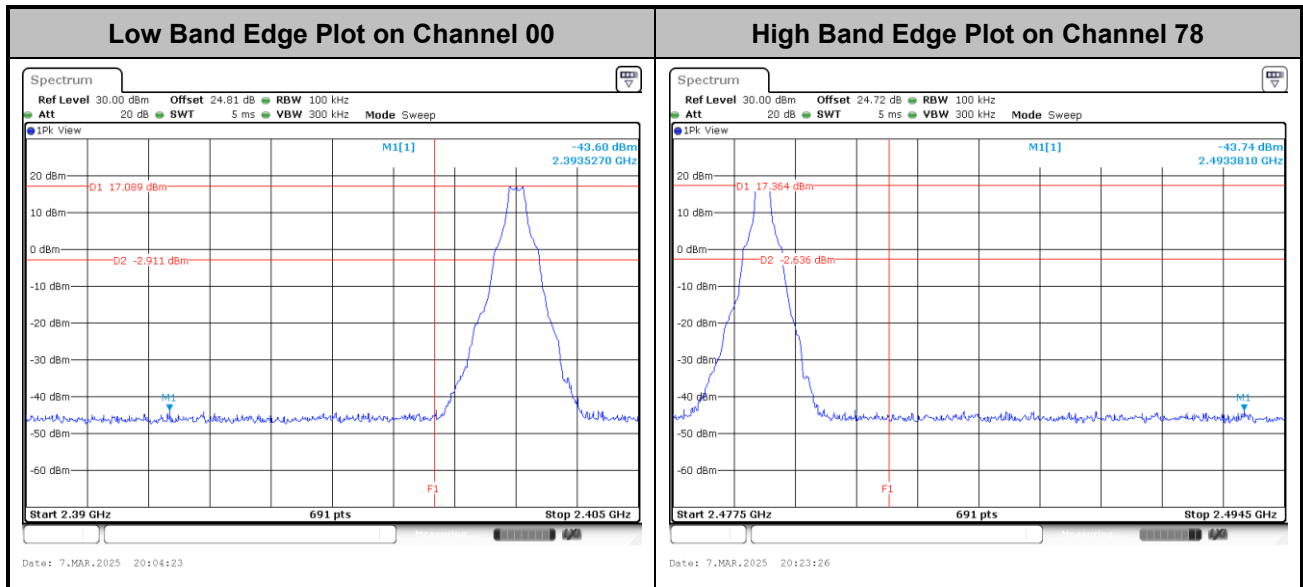
99% Occupied Bandwidth on Channel 78





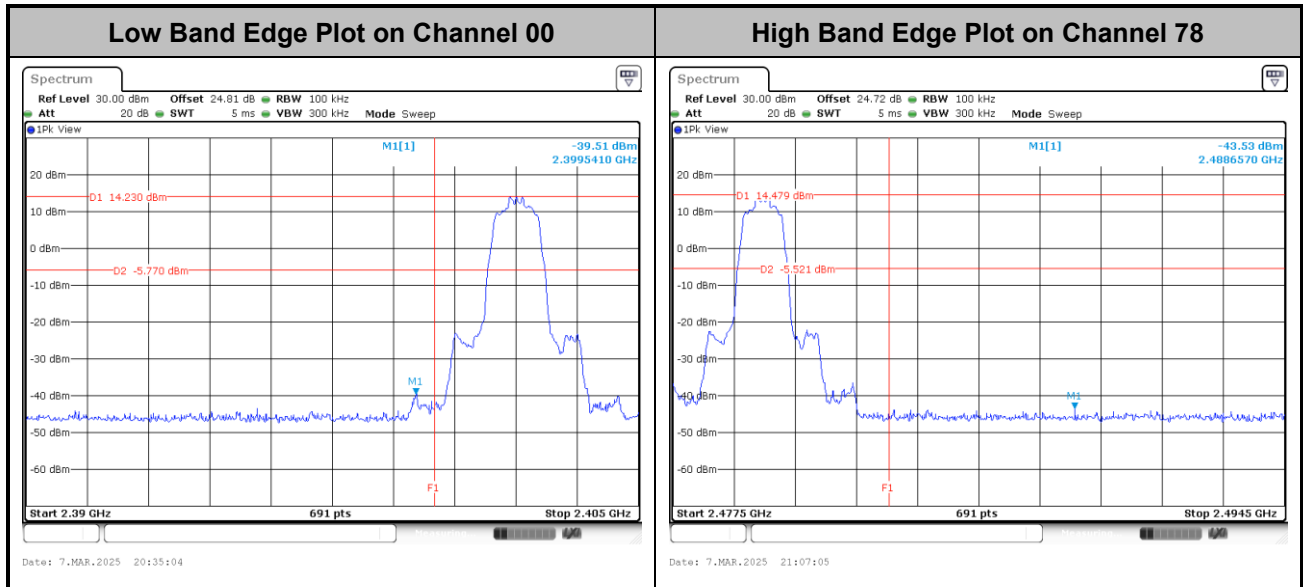
Band Edges

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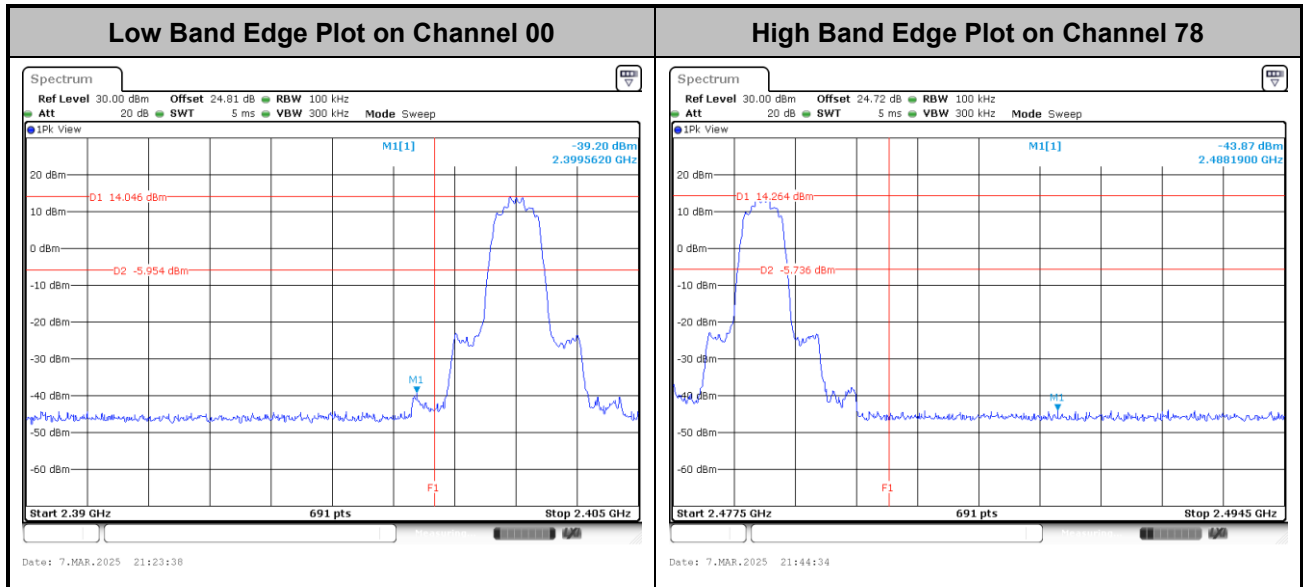


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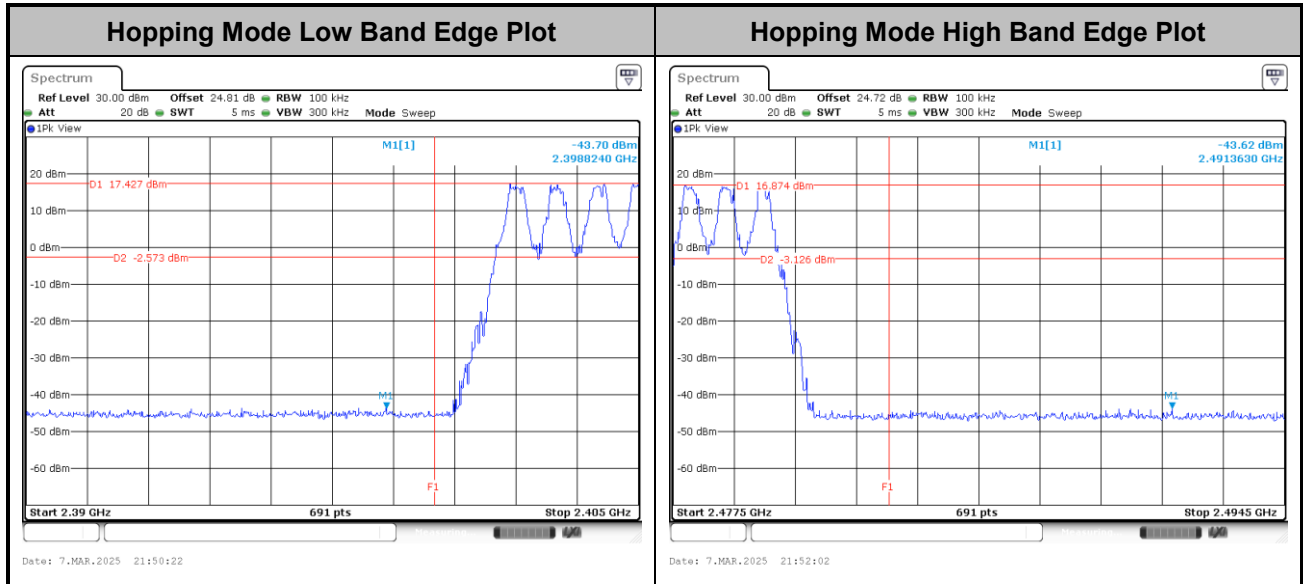
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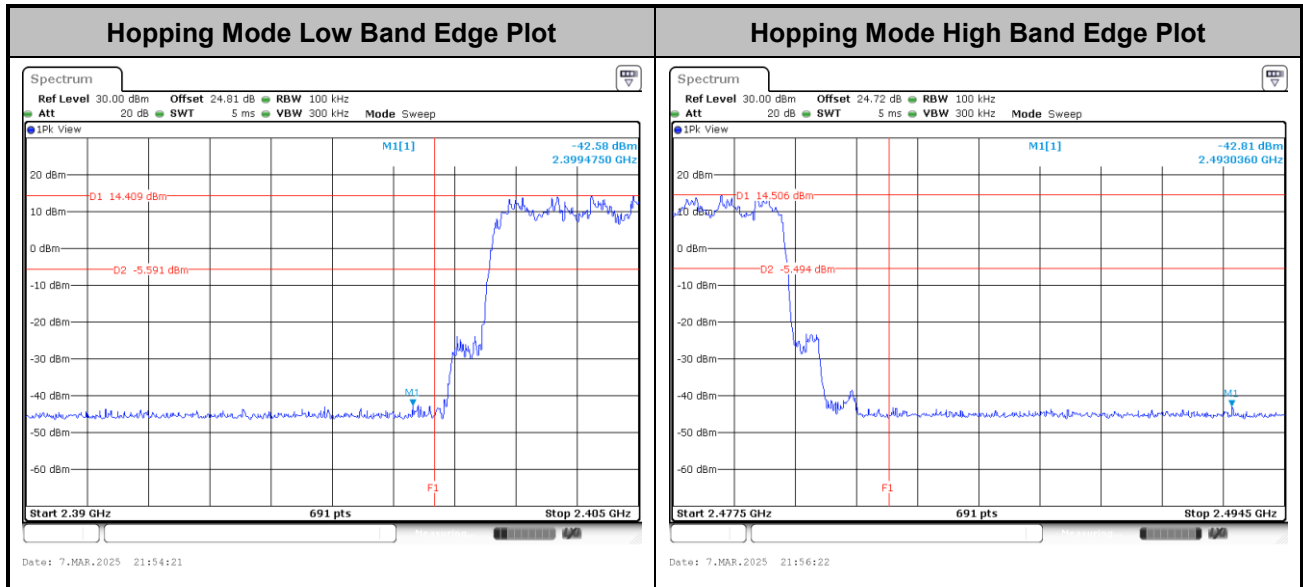
Hopping Mode Band Edges

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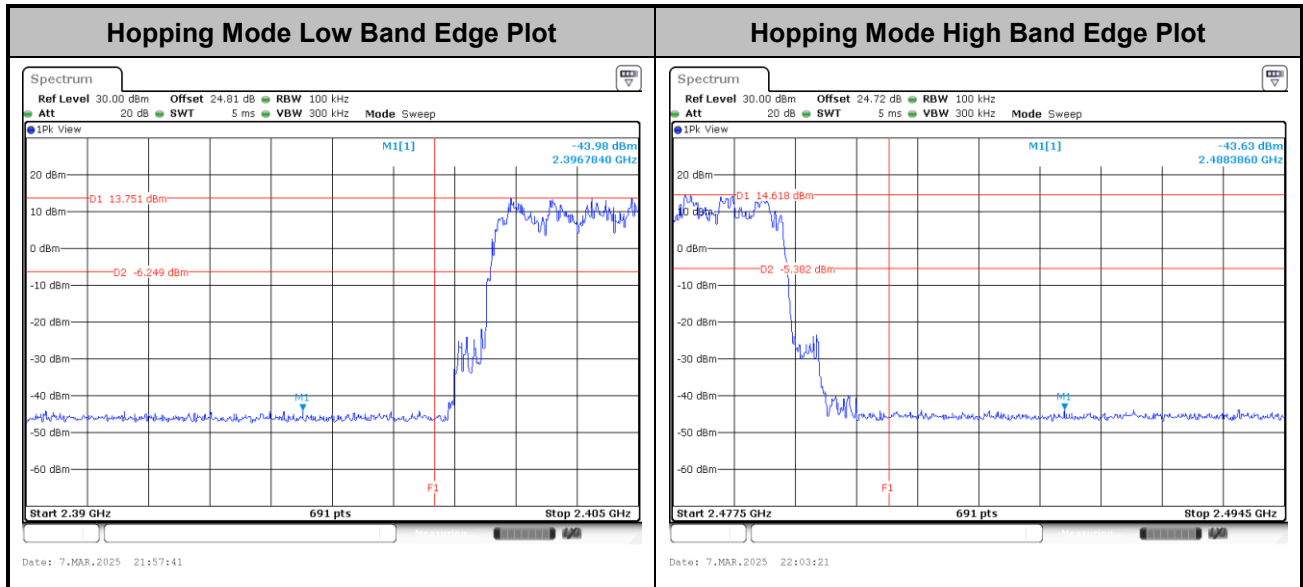


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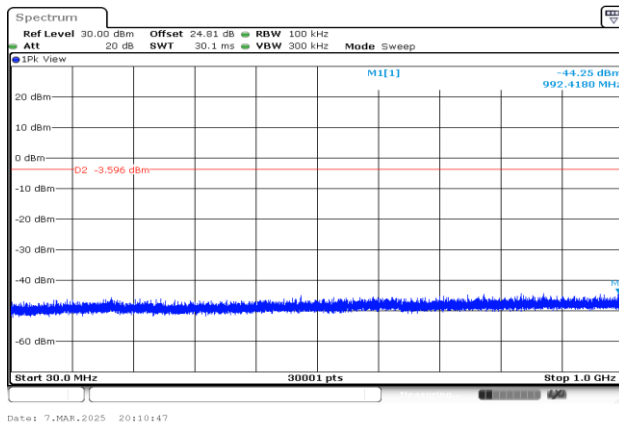
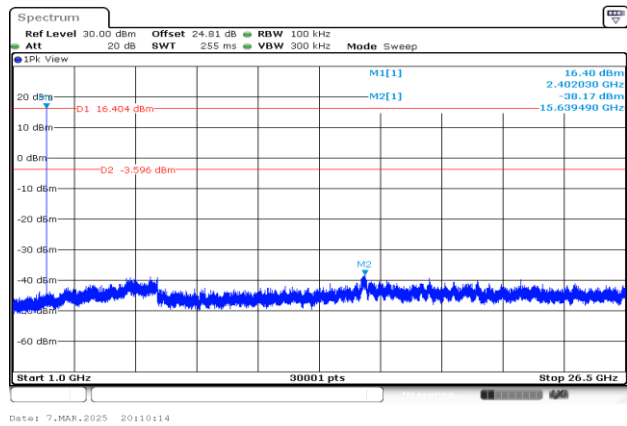
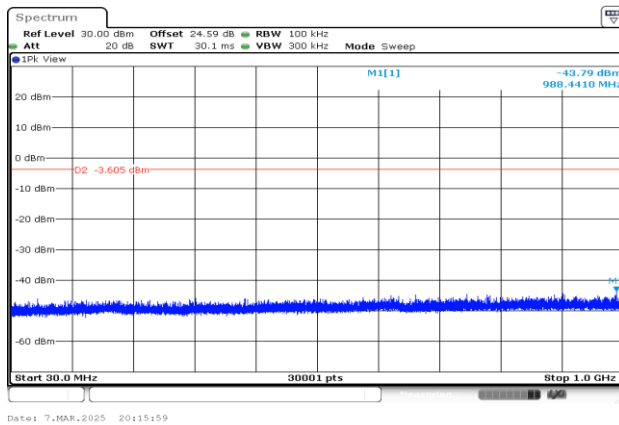
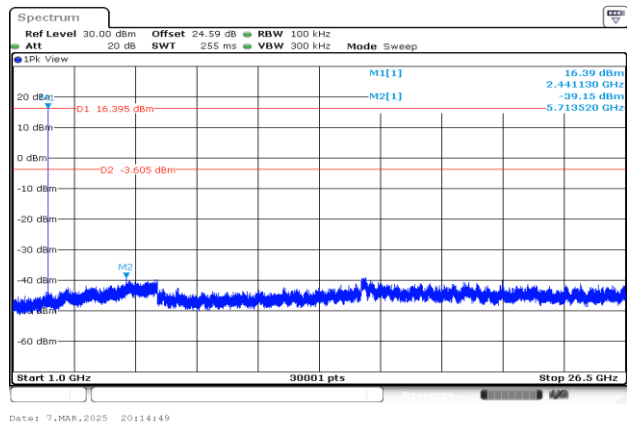
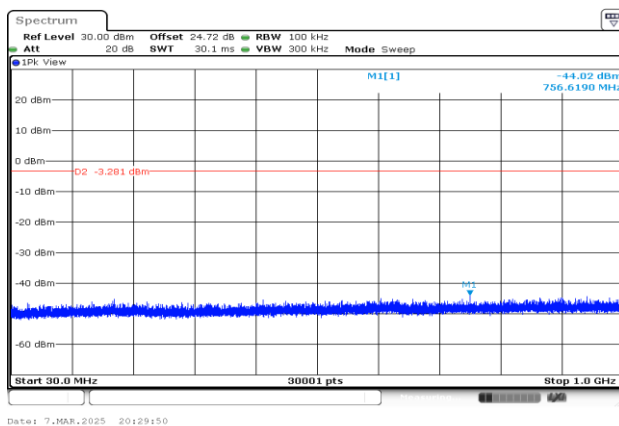
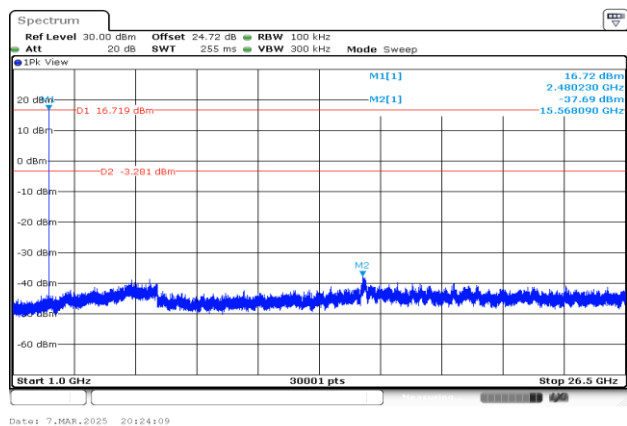


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**Conducted Spurious Emission**

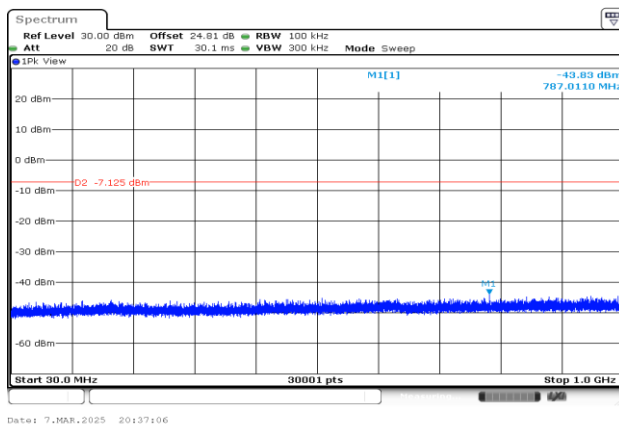
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CSE Plot on Low Ch between 30MHz ~ 1 GHz**CSE Plot on Low Ch between 1GHz ~ 26.5GHz****CSE Plot on Mid. Ch between 30MHz ~ 1 GHz****CSE Plot on Mid. Ch between 1GHz ~ 26.5GHz****CSE Plot on High Ch between 30MHz ~ 1 GHz****CSE Plot on High Ch between 1GHz ~ 26.5GHz**

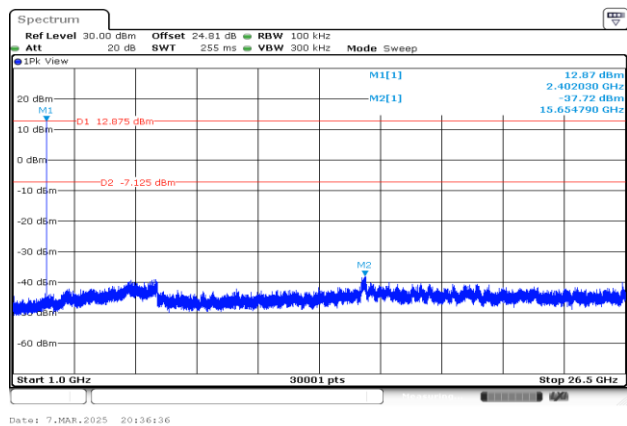


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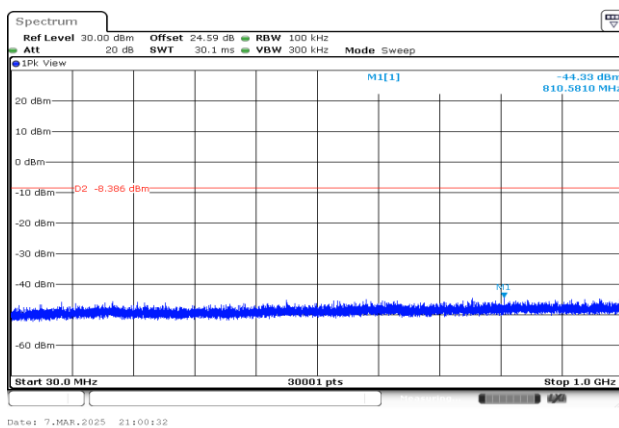
CSE Plot on Low Ch between 30MHz ~ 1 GHz



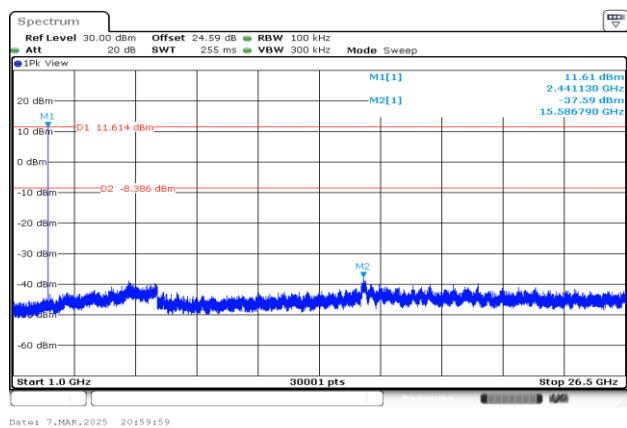
CSE Plot on Low Ch between 1GHz ~ 26.5GHz



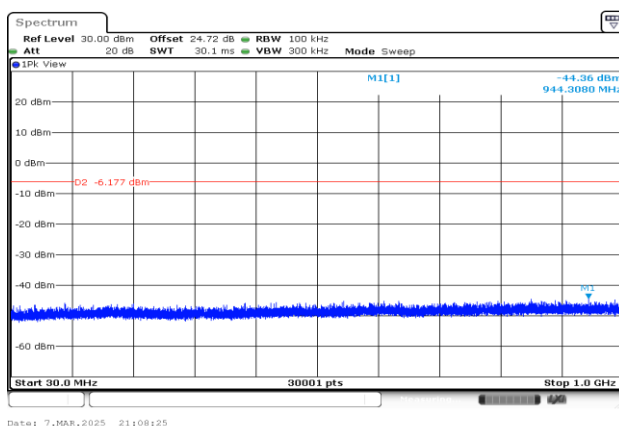
CSE Plot on Mid. Ch between 30MHz ~ 1 GHz



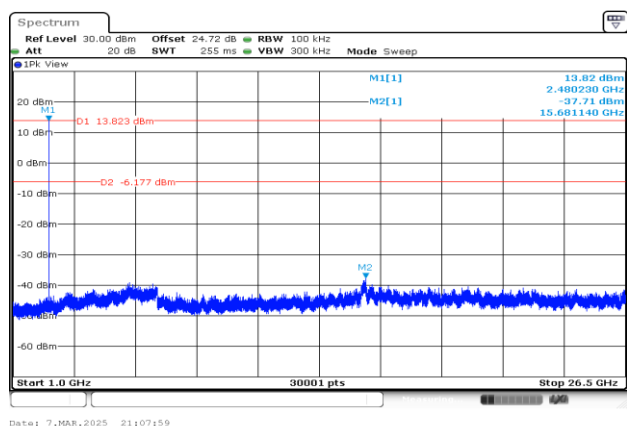
CSE Plot on Mid. Ch between 1GHz ~ 26.5GHz



CSE Plot on High Ch between 30MHz ~ 1 GHz



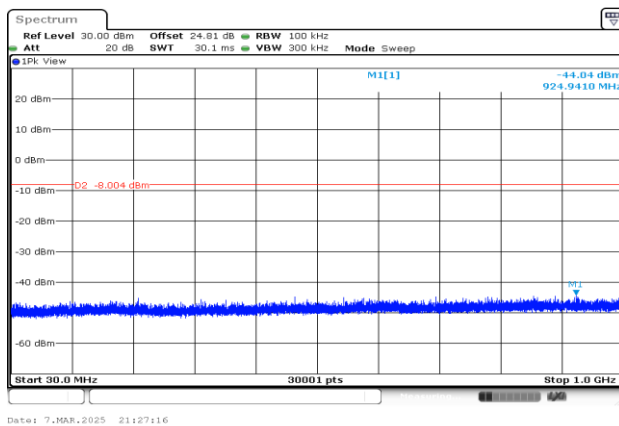
CSE Plot on High Ch between 1GHz ~ 26.5GHz



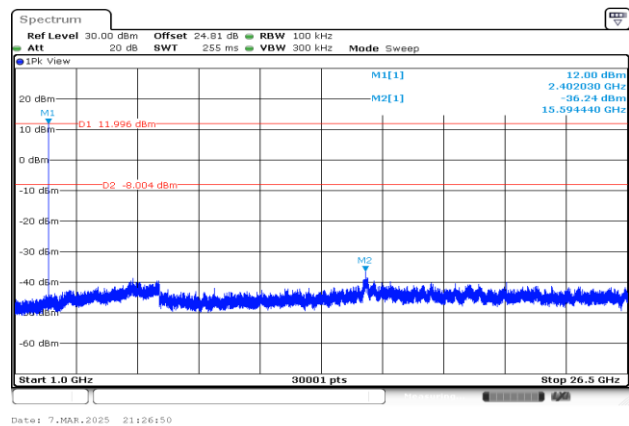


<3Mbps>

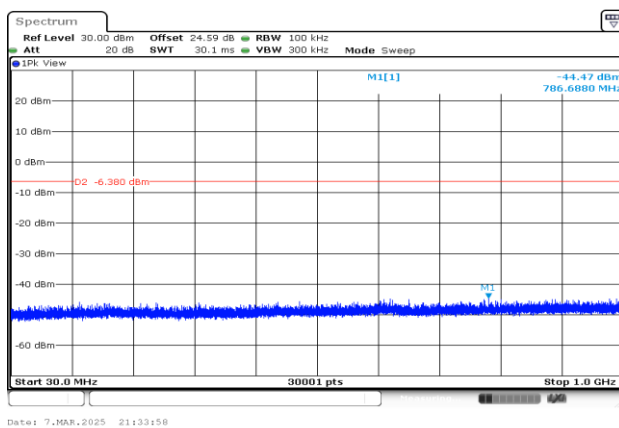
CSE Plot on Low Ch between 30MHz ~ 1 GHz



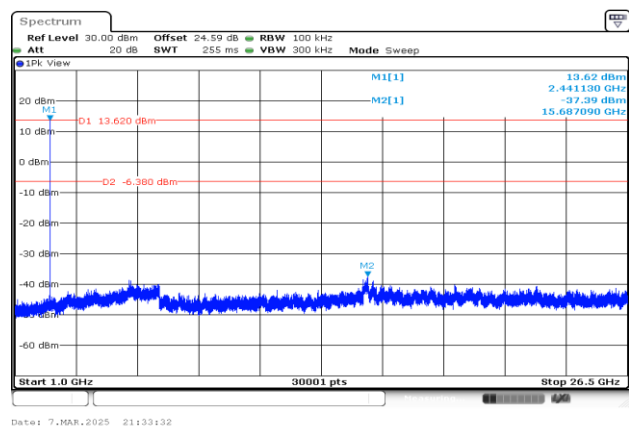
CSE Plot on Low Ch between 1GHz ~ 26.5GHz



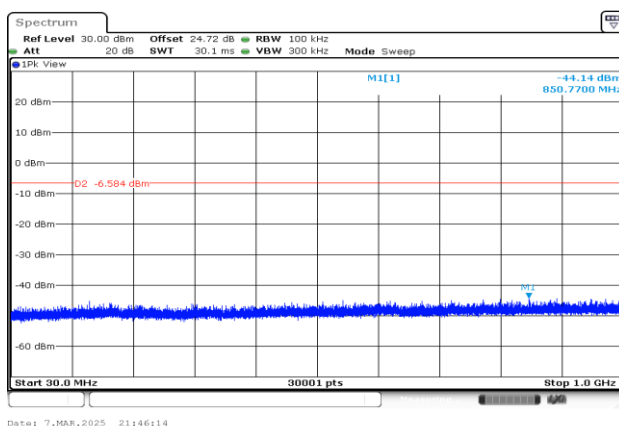
CSE Plot on Mid. Ch between 30MHz ~ 1 GHz



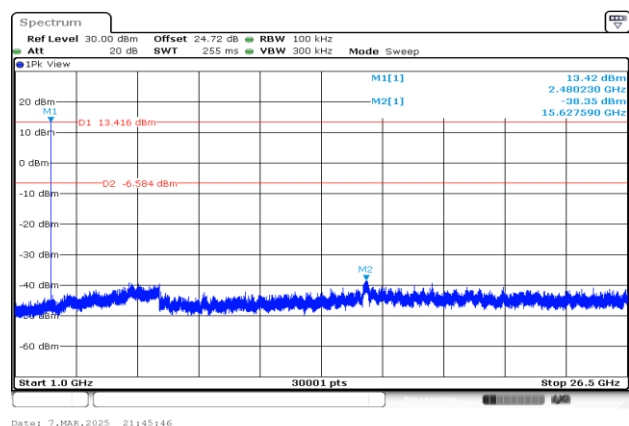
CSE Plot on Mid. Ch between 1GHz ~ 26.5GHz



CSE Plot on High Ch between 30MHz ~ 1 GHz



CSE Plot on High Ch between 1GHz ~ 26.5GHz





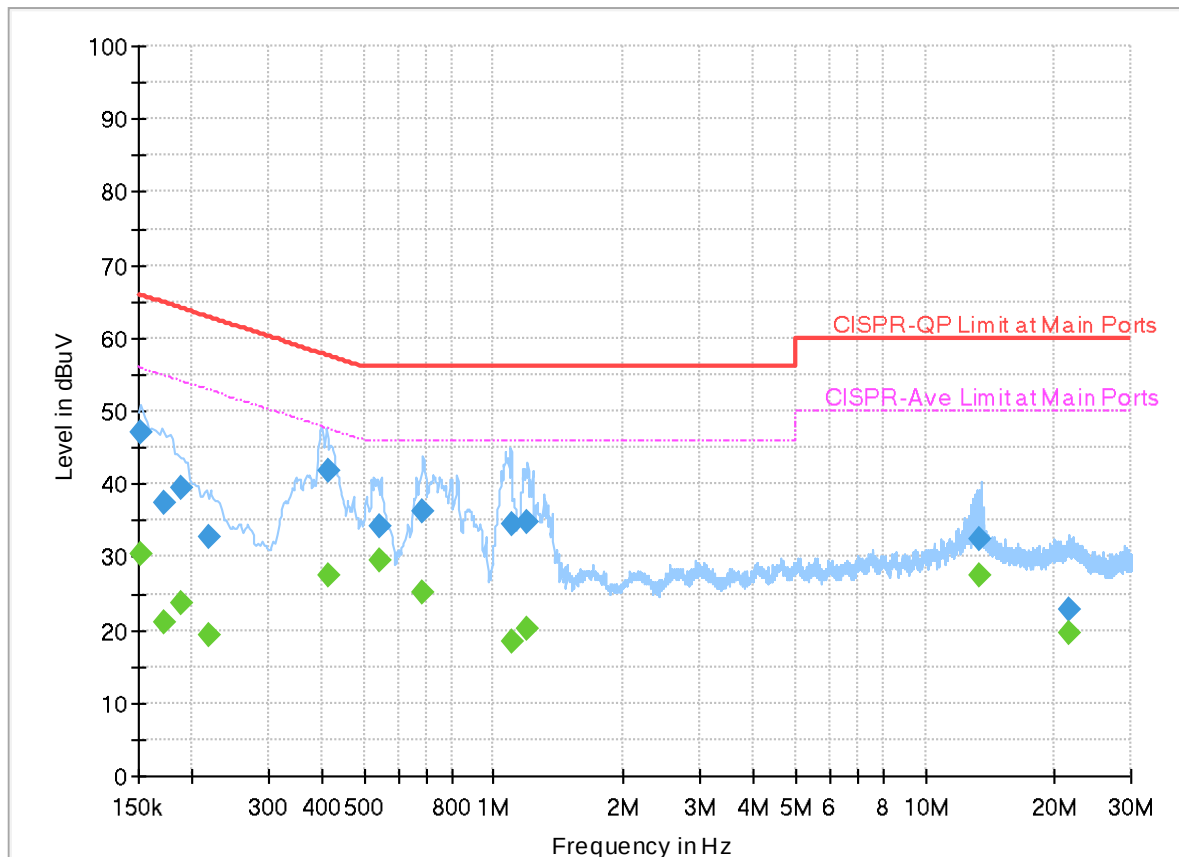
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	Temperature :	17.22 ~ 22.3°C
		Relative Humidity :	58.2 ~ 65.3%

EUT Information

Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



Final_Result

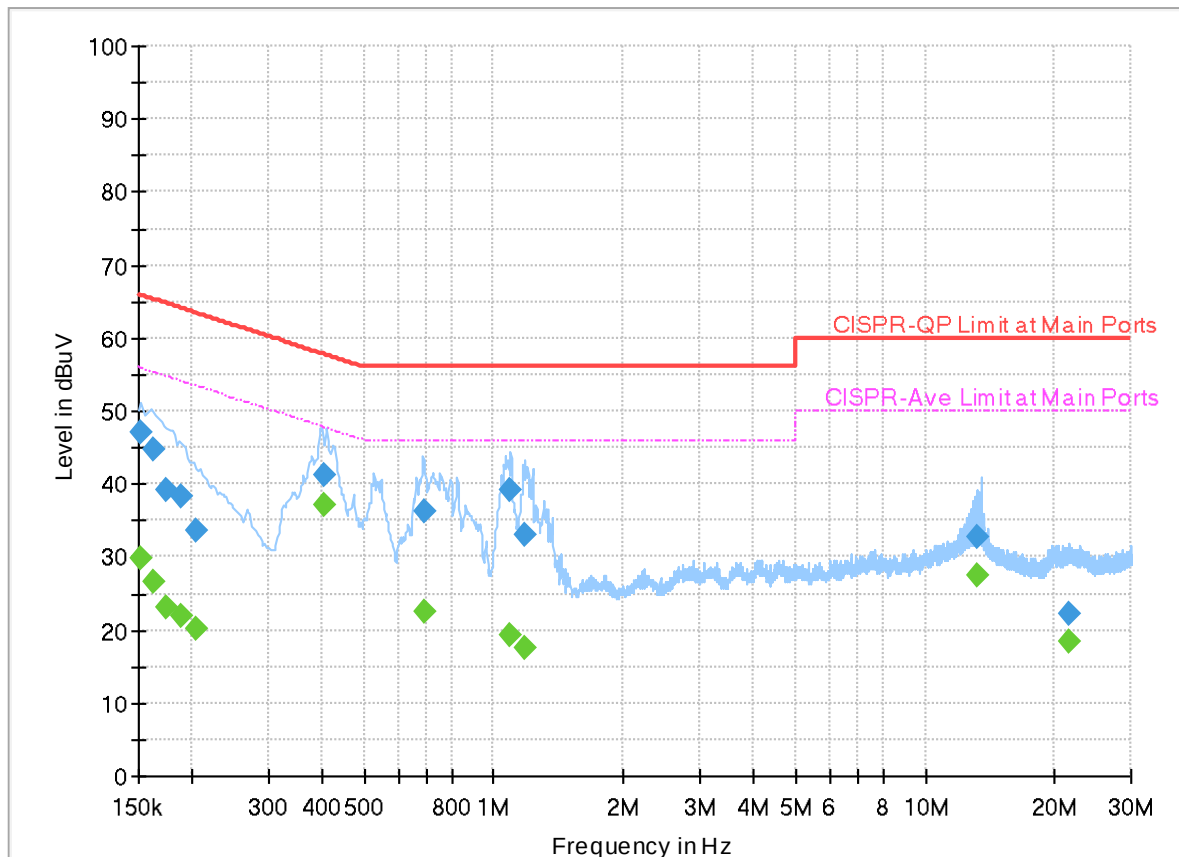
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.151013	---	30.47	55.94	25.47	L1	FLO	20.0
0.151013	47.20	---	65.94	18.74	L1	FLO	20.0
0.171510	---	21.14	54.89	33.75	L1	FLO	20.0
0.171510	37.45	---	64.89	27.44	L1	FLO	20.0
0.188250	---	23.81	54.11	30.30	L1	FLO	20.0
0.188250	39.54	---	64.11	24.57	L1	FLO	20.0
0.217680	---	19.44	52.91	33.47	L1	FLO	20.0
0.217680	32.86	---	62.91	30.05	L1	FLO	20.0
0.412800	---	27.56	47.59	20.03	L1	FLO	20.0
0.412800	41.86	---	57.59	15.73	L1	FLO	20.0
0.543750	---	29.41	46.00	16.59	L1	FLO	20.0
0.543750	34.30	---	56.00	21.70	L1	FLO	20.0
0.681000	---	25.26	46.00	20.74	L1	FLO	20.0
0.681000	36.14	---	56.00	19.86	L1	FLO	20.0
1.099500	---	18.54	46.00	27.46	L1	FLO	20.0
1.099500	34.46	---	56.00	21.54	L1	FLO	20.0
1.194000	---	20.13	46.00	25.87	L1	FLO	20.0
1.194000	34.65	---	56.00	21.35	L1	FLO	20.0
13.361010	---	27.52	50.00	22.48	L1	FLO	20.5

13.361010	32.49	---	60.00	27.51	L1	FLO	20.5
21.575940	---	19.45	50.00	30.55	L1	FLO	20.9
21.575940	22.91	---	60.00	37.09	L1	FLO	20.9

EUT Information

Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	PE	Corr. (dB)
0.151688	---	29.79	55.91	26.12	N	FLO	20.0
0.151688	47.05	---	65.91	18.86	N	FLO	20.0
0.161610	---	26.48	55.38	28.90	N	FLO	20.0
0.161610	44.87	---	65.38	20.51	N	FLO	20.0
0.174750	---	23.02	54.73	31.71	N	FLO	20.0
0.174750	39.05	---	64.73	25.68	N	FLO	20.0
0.188250	---	21.96	54.11	32.15	N	FLO	20.0
0.188250	38.44	---	64.11	25.67	N	FLO	20.0
0.205080	---	20.25	53.40	33.15	N	FLO	20.0
0.205080	33.53	---	63.40	29.87	N	FLO	20.0
0.406500	---	37.13	47.72	10.59	N	FLO	20.0
0.406500	41.23	---	57.72	16.49	N	FLO	20.0
0.686670	---	22.51	46.00	23.49	N	FLO	20.0
0.686670	36.20	---	56.00	19.80	N	FLO	20.0
1.092750	---	19.44	46.00	26.56	N	FLO	20.0
1.092750	39.04	---	56.00	16.96	N	FLO	20.0
1.178790	---	17.63	46.00	28.37	N	FLO	20.0
1.178790	33.00	---	56.00	23.00	N	FLO	20.0
13.263000	---	27.53	50.00	22.47	N	FLO	20.5

13.263000	32.76	---	60.00	27.24	N	FLO	20.5
21.621300	---	18.54	50.00	31.46	N	FLO	20.9
21.621300	22.21	---	60.00	37.79	N	FLO	20.9



Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Daniel Lee, Fu Chen and Troye Hsieh	Relative Humidity :	50.2~65.2%
		Temperature :	19.1~21.9°C

Note symbol

-L	Low channel location
-R	High channel location

C1. Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	Bluetooth BR_GFSK	00	2402	1Mbps	-	-
Mode 2	2400-2483.5	Bluetooth BR_GFSK	39	2441	1Mbps	-	-
Mode 3	2400-2483.5	Bluetooth BR_GFSK	78	2480	1Mbps	-	-
Mode 4	2400-2483.5	Bluetooth BR_GFSK	00	2402	1Mbps	-	SHF
Mode 5	2400-2483.5	Bluetooth BR_GFSK	00	2402	1Mbps	-	LF

C2. Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	Bluetooth BR_GFSK	00	2388.94	47.10	74.00	-26.90	V	Peak	Pass	-	Band Edge
	Bluetooth BR_GFSK	00	4804.00	39.19	74.00	-34.81	H	Peak	Pass	-	Harmonic
2	Bluetooth BR_GFSK	39	2495.52	44.59	74.00	-29.41	V	Peak	Pass	-	Band Edge
	Bluetooth BR_GFSK	39	7323.00	40.95	74.00	-33.05	H	Peak	Pass	-	Harmonic
3	Bluetooth BR_GFSK	78	2484.12	46.36	74.00	-27.64	H	Peak	Pass	-	Band Edge
	Bluetooth BR_GFSK	78	7440.00	41.15	74.00	-32.85	V	Peak	Pass	-	Harmonic
4	Bluetooth BR_GFSK	00	19508.03	40.81	74.00	-33.19	V	Peak	Pass	-	SHF
5	Bluetooth BR_GFSK	00	30.00	35.32	40.00	-4.68	H	QP	Pass	-	LF



1

Mode

Band Edge

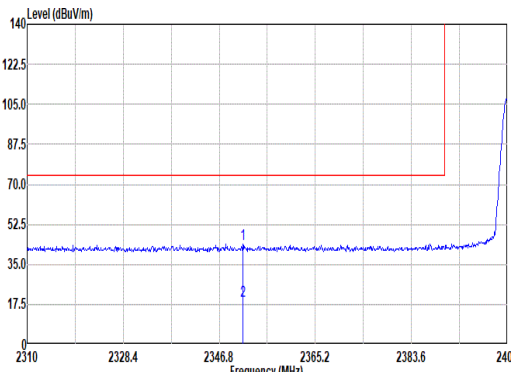
2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz

Pol.

Horizontal

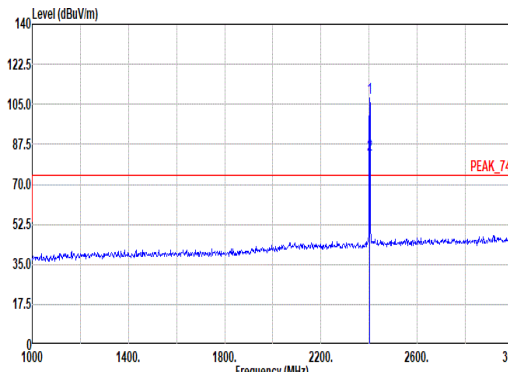
Fundamental

Peak



Site : 03CH11-HY
Condition: PEAK_BE_74 3m 91200_01620_240828 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Detector : PEAK
Mode : 1
Setting : Default
Plane : Y with adapter

	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark			
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor				
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg		
1	2351.31	43.83	74.00	-30.17	42.74	27.20	7.13	33.24	0.00	227	338	PEAK
2	2351.31	19.05	54.00	-34.95	--	--	--	--	--	227	338	AVERAGE



Site : 03CH11-HY
Condition: PEAK_74 3m 91200_01620_240828 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Detector : PEAK
Mode : 1
Setting : Default
Plane : Y with adapter

	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark			
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor				
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg		
1	2402.00	107.64	-----	-----	106.23	27.40	7.20	33.19	0.00	227	338	PEAK
2	2402.00	82.86	-----	-----	--	--	--	--	--	227	338	AVERAGE



1

Mode

Band Edge

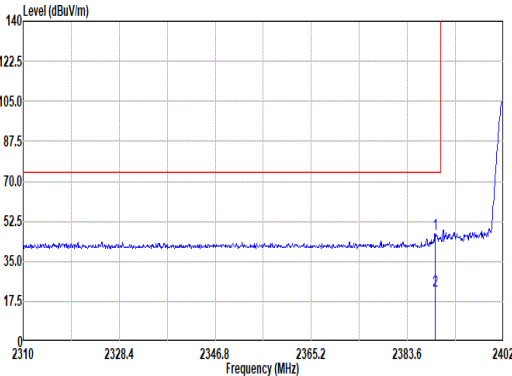
2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz

Pol.

Vertical

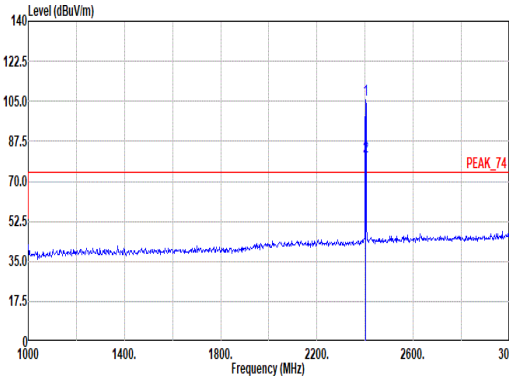
Fundamental

Peak



Site : 03CH11-HY
Condition: PEAK_BE_74 3m 91200_01620_240828 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Detector : PEAK
Mode : 1
Setting : Default
Plane : Y with adapter

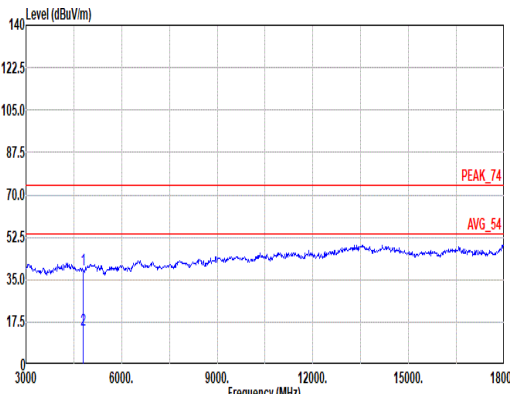
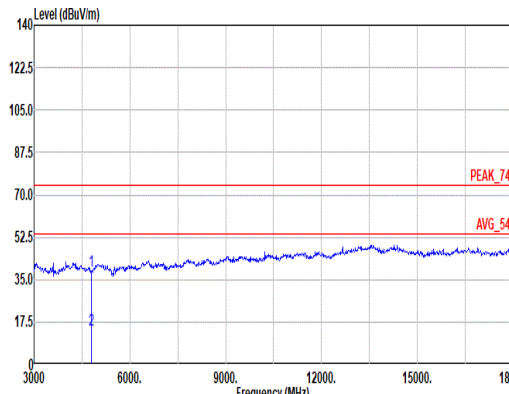
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm
1	2388.94	47.10	74.00	-26.90	45.82	27.29	7.19	33.20	0.00
2	2388.94	22.32	54.00	-31.68	--	--	--	--	195
									337
									PEAK
									AVERAGE



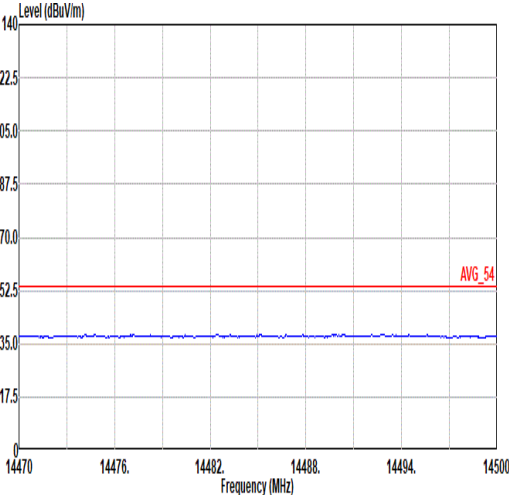
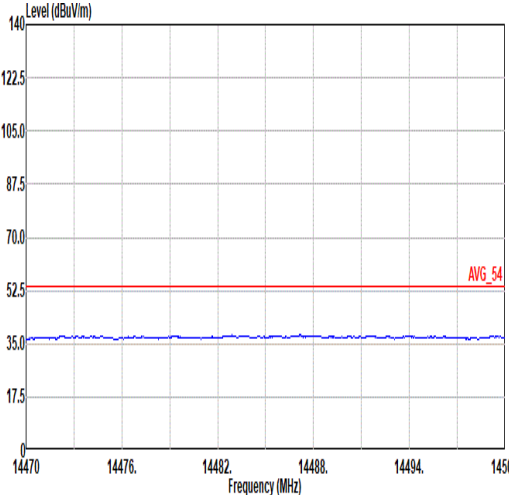
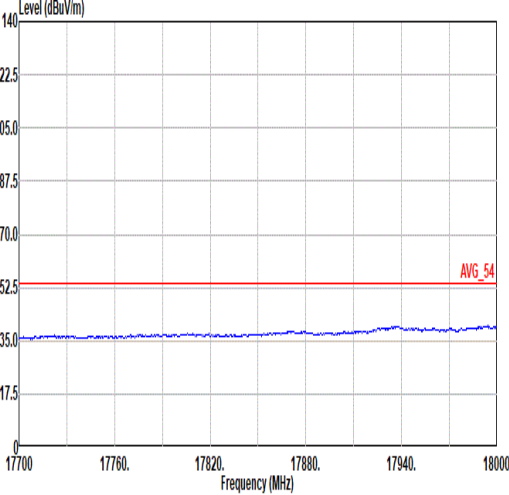
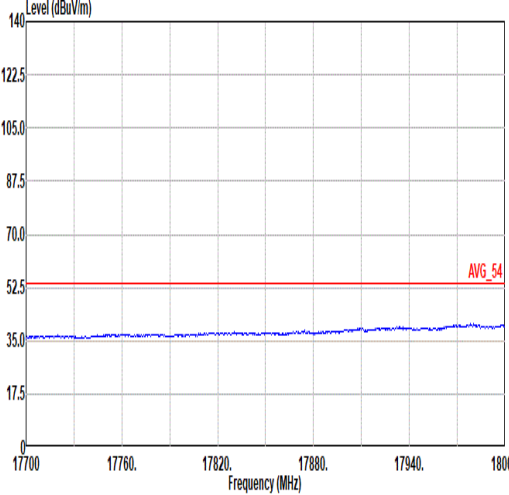
Site : 03CH11-HY
Condition: PEAK_74 3m 91200_01620_240828 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Detector : PEAK
Mode : 1
Setting : Default
Plane : Y with adapter

	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm
1	2402.00	105.78	-----	-----	104.37	27.40	7.20	33.19	0.00
2	2402.00	81.00	-----	-----	--	--	--	--	195
									337
									PEAK
									AVERAGE

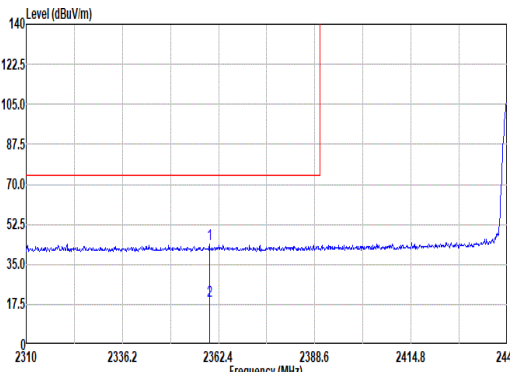
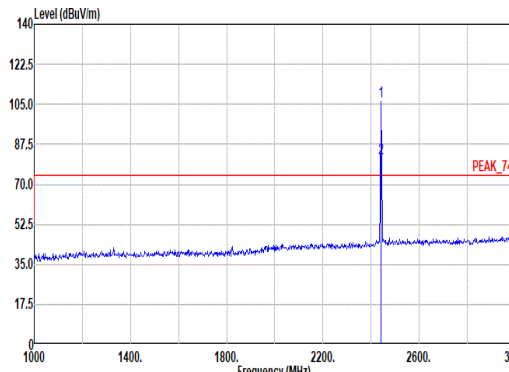


Mode	1																																																																																																																							
	Harmonic																																																																																																																							
	2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz																																																																																																																							
Pol.	Horizontal						Vertical																																																																																																																	
Peak Avg																																																																																																																								
	<div>Site : 03CH11-HY Condition: PEAK_74 3m 91280_01620_240828 HORIZONTAL Mode : 1 Setting : Default Plane : Y with adapter</div> <table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>4804.00</td><td>39.19</td><td>74.00</td><td>-34.81</td><td>63.26</td><td>32.32</td><td>9.87</td><td>66.76</td><td>0.50</td><td>--</td><td>PEAK</td></tr><tr><td>2</td><td>4804.00</td><td>14.41</td><td>54.00</td><td>-39.59</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>AVERAGE</td></tr></tbody></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	4804.00	39.19	74.00	-34.81	63.26	32.32	9.87	66.76	0.50	--	PEAK	2	4804.00	14.41	54.00	-39.59	--	--	--	--	--	--	AVERAGE	<div>Site : 03CH11-HY Condition: PEAK_74 3m 91280_01620_240828 VERTICAL Mode : 1 Setting : Default Plane : Y with adapter</div> <table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>4804.00</td><td>38.81</td><td>74.00</td><td>-35.19</td><td>62.88</td><td>32.32</td><td>9.87</td><td>66.76</td><td>0.50</td><td>--</td><td>PEAK</td></tr><tr><td>2</td><td>4804.00</td><td>14.03</td><td>54.00</td><td>-39.97</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>AVERAGE</td></tr></tbody></table>						Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	4804.00	38.81	74.00	-35.19	62.88	32.32	9.87	66.76	0.50	--	PEAK	2	4804.00	14.03	54.00	-39.97	--	--	--	--	--	--
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																															
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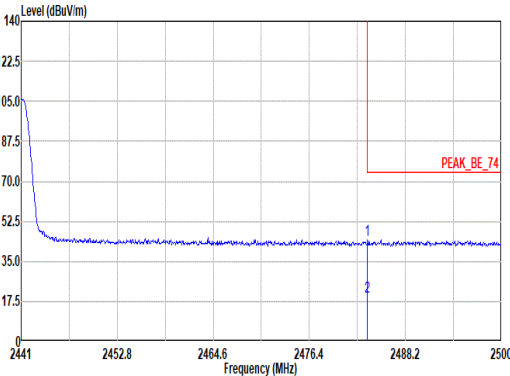


Mode	1	
	Harmonic	
	2400-2483.5 Bluetooth BR_GFSK_CH00_2402MHz	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 <p>Site : 03CH11-HY Condition: AVG_54 3m 91280_01620_240828 HORIZONTAL Mode : 1 Setting : Default Plane : Y with adapter</p>	 <p>Site : 03CH11-HY Condition: AVG_54 3m 91280_01620_240828 VERTICAL Mode : 1 Setting : Default Plane : Y with adapter</p>
17.7G ~18G Avg	 <p>Site : 03CH11-HY Condition: AVG_54 3m 91280_01620_240828 HORIZONTAL Mode : 1 Setting : Default Plane : Y with adapter</p>	 <p>Site : 03CH11-HY Condition: AVG_54 3m 91280_01620_240828 VERTICAL Mode : 1 Setting : Default Plane : Y with adapter</p>



Mode	2																																																																																																																			
	Band Edge - L																																																																																																																			
	2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz																																																																																																																			
Pol.	Horizontal	Fundamental																																																																																																																		
Peak	<div><p>Site : 03CH11-HY Condition: PEAK_BE_74 3m 91200_01620_240828 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Detector : PEAK Mode : 2 Setting : Default Plane : Y with adapter</p><table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2359.91</td><td>43.86</td><td>74.00</td><td>-30.14</td><td>42.74</td><td>27.20</td><td>7.15</td><td>33.23</td><td>0.00</td><td>288</td><td>355</td><td>PEAK</td></tr><tr><td>2</td><td>2359.91</td><td>19.08</td><td>54.00</td><td>-34.92</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>288</td><td>355</td><td>AVERAGE</td></tr></table></div>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2359.91	43.86	74.00	-30.14	42.74	27.20	7.15	33.23	0.00	288	355	PEAK	2	2359.91	19.08	54.00	-34.92	--	--	--	--	--	288	355	AVERAGE	<div><p>Site : 03CH11-HY Condition: PEAK_74 3m 91200_01620_240828 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Detector : PEAK Mode : 2 Setting : Default Plane : Y with adapter</p><table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2441.00</td><td>106.02</td><td>-----</td><td>-----</td><td>104.31</td><td>27.60</td><td>7.26</td><td>33.15</td><td>0.00</td><td>288</td><td>355</td><td>PEAK</td></tr><tr><td>2</td><td>2441.00</td><td>81.24</td><td>-----</td><td>-----</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>288</td><td>355</td><td>AVERAGE</td></tr></table></div>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2441.00	106.02	-----	-----	104.31	27.60	7.26	33.15	0.00	288	355	PEAK	2	2441.00	81.24	-----	-----	--	--	--	--	--	288	355	AVERAGE
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																																												
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark																																																																																																											
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																																										
1	2359.91	43.86	74.00	-30.14	42.74	27.20	7.15	33.23	0.00	288	355	PEAK																																																																																																								
2	2359.91	19.08	54.00	-34.92	--	--	--	--	--	288	355	AVERAGE																																																																																																								
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1	2441.00	106.02	-----	-----	104.31	27.60	7.26	33.15	0.00	288	355	PEAK																																																																																																								
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Mode	2																																																										
	Band Edge - R																																																										
	2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz																																																										
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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																			
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark																																																		
	MHz	dBuV/m	dBuV/m	dB	dB/m	dB	dB	dB	cm	deg																																																	
1	2483.54	44.16	74.00	-29.84	42.12	27.84	7.32	33.12	0.00	288	355	PEAK																																															
2	2483.54	19.38	54.00	-34.62	--	--	--	--	--	288	355	AVERAGE																																															



2

Mode

Band Edge - L

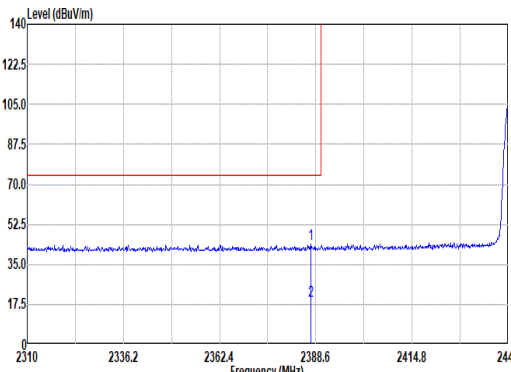
2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz

Pol.

Vertical

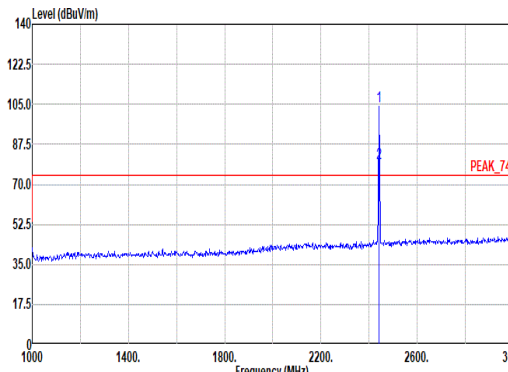
Fundamental

Peak



Site : 03CH11-HY
Condition: PEAK_BE_74 3m 91200_01620_240828 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Detector : PEAK
Mode : 2
Setting : Default
Plane : Y with adapter

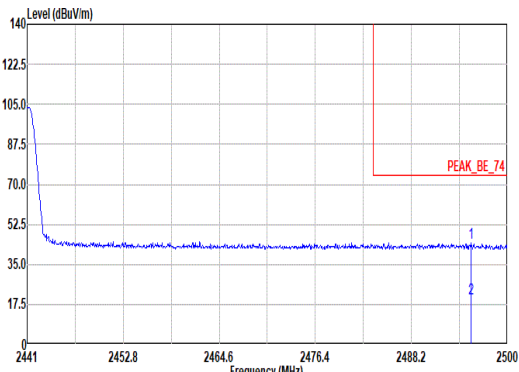
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Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	2387.16	43.81	74.00	-30.19	42.56	27.27	7.18	33.20	0.00	181	0 PEAK
2	2387.16	19.03	54.00	-34.97	--	--	--	--	--	181	0 AVERAGE



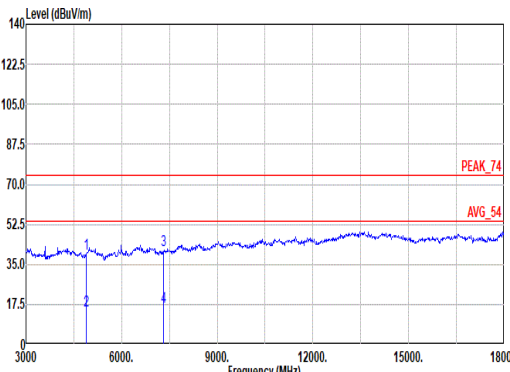
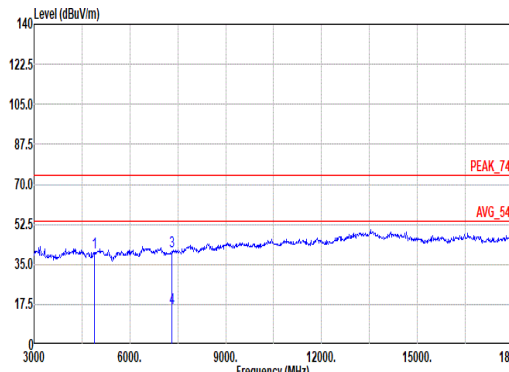
Site : 03CH11-HY
Condition: PEAK_74 3m 91200_01620_240828 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Detector : PEAK
Mode : 2
Setting : Default
Plane : Y with adapter

	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos			
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	2441.00	103.85	-----	-----	102.14	27.60	7.26	33.15	0.00	181	0 PEAK
2	2441.00	79.07	-----	-----	--	--	--	--	--	181	0 AVERAGE

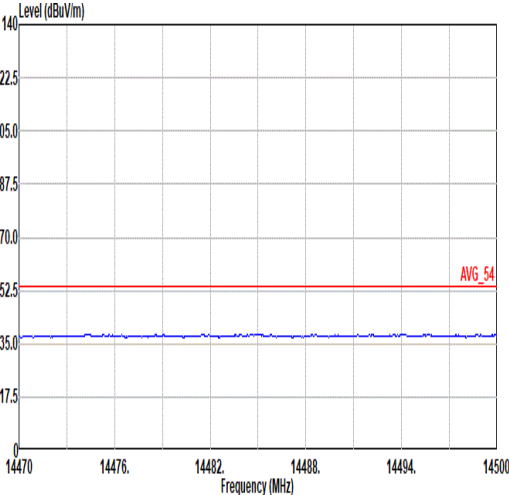
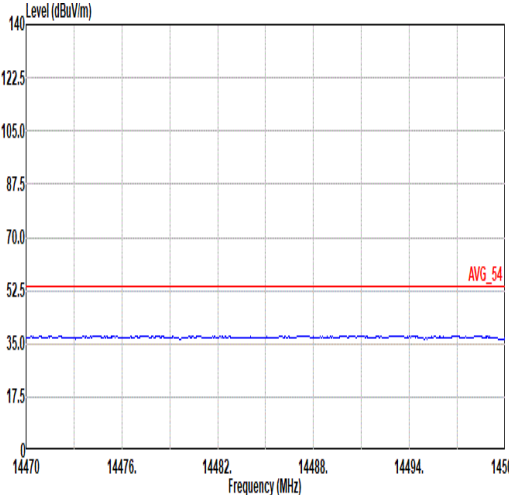
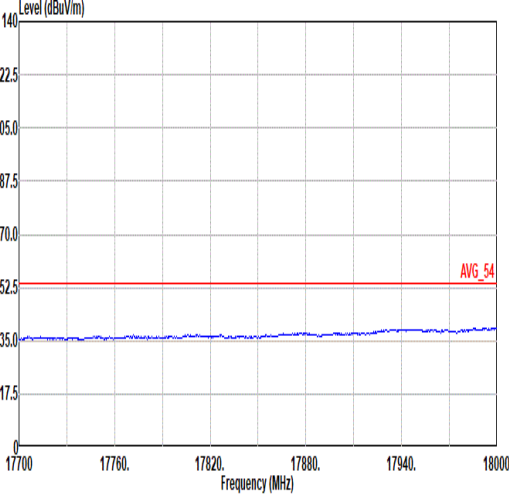
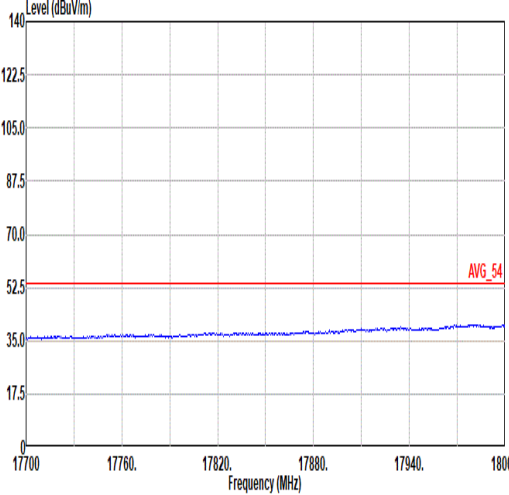


Mode	2																																																										
	Band Edge - R																																																										
	2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz																																																										
Pol.	Vertical	Fundamental																																																									
Peak	<div><p>Site : 03CH11-HY Condition: PEAK_BE_74 3m 91200_01620_240828 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Detector : PEAK Mode : 2 Setting : Default Plane : Y with adapter</p><table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2495.52</td><td>44.59</td><td>74.00</td><td>-29.41</td><td>42.46</td><td>27.90</td><td>7.33</td><td>33.10</td><td>0.00</td><td>181</td><td>0</td><td>PEAK</td></tr><tr><td>2</td><td>2495.52</td><td>19.81</td><td>54.00</td><td>-34.19</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>181</td><td>0</td><td>AVERAGE</td></tr></table></div>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2495.52	44.59	74.00	-29.41	42.46	27.90	7.33	33.10	0.00	181	0	PEAK	2	2495.52	19.81	54.00	-34.19	--	--	--	--	--	181	0	AVERAGE	Blank
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																			
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark																																																		
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																	
1	2495.52	44.59	74.00	-29.41	42.46	27.90	7.33	33.10	0.00	181	0	PEAK																																															
2	2495.52	19.81	54.00	-34.19	--	--	--	--	--	181	0	AVERAGE																																															

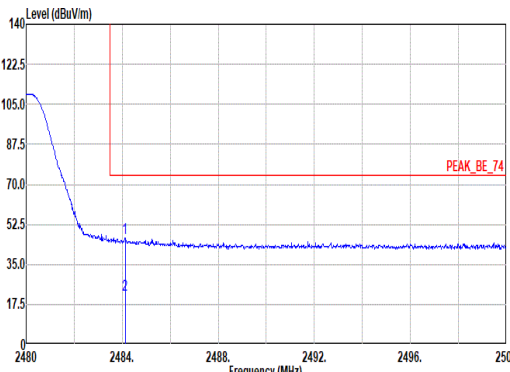
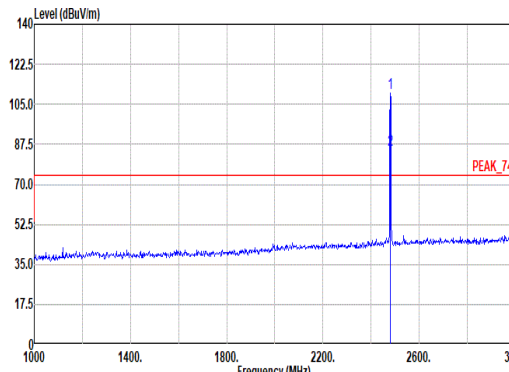


Mode	2																																																																																								
	Harmonic																																																																																								
	2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz																																																																																								
Pol.	Horizontal																																																																																								
Peak Avg																																																																																									
	<p>Site : 03CH11-HY Condition: PEAK_74 3m 91280_01620_240828 HORIZONTAL Mode : 2 Setting : Default Plane : Y with adapter</p> <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>4882.00</td><td>39.39</td><td>74.00</td><td>-34.61</td><td>62.70</td><td>32.73</td><td>10.11</td><td>66.69</td><td>0.54</td><td>--</td><td>PEAK</td></tr><tr><td>2</td><td>4882.00</td><td>14.61</td><td>54.00</td><td>-39.39</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>AVERAGE</td></tr><tr><td>3</td><td>7323.00</td><td>40.95</td><td>74.00</td><td>-33.05</td><td>56.92</td><td>36.75</td><td>12.76</td><td>65.79</td><td>0.31</td><td>--</td><td>PEAK</td></tr><tr><td>4</td><td>7323.00</td><td>16.17</td><td>54.00</td><td>-37.83</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>AVERAGE</td></tr></table>												Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	4882.00	39.39	74.00	-34.61	62.70	32.73	10.11	66.69	0.54	--	PEAK	2	4882.00	14.61	54.00	-39.39	--	--	--	--	--	--	AVERAGE	3	7323.00	40.95	74.00	-33.05	56.92	36.75	12.76	65.79	0.31	--	PEAK	4	7323.00	16.17	54.00	-37.83	--	--	--	--	--	--
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																																																																	
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																															
1	4882.00	39.39	74.00	-34.61	62.70	32.73	10.11	66.69	0.54	--	PEAK																																																																														
2	4882.00	14.61	54.00	-39.39	--	--	--	--	--	--	AVERAGE																																																																														
3	7323.00	40.95	74.00	-33.05	56.92	36.75	12.76	65.79	0.31	--	PEAK																																																																														
4	7323.00	16.17	54.00	-37.83	--	--	--	--	--	--	AVERAGE																																																																														
Peak Avg																																																																																									
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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																																																																	
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																															
1	4882.00	40.16	74.00	-33.84	63.47	32.73	10.11	66.69	0.54	--	PEAK																																																																														
2	4882.00	-7.94	54.00	-61.94	--	--	--	--	--	--	AVERAGE																																																																														
3	7323.00	40.47	74.00	-33.53	56.44	36.75	12.76	65.79	0.31	--	PEAK																																																																														
4	7323.00	15.69	54.00	-38.31	--	--	--	--	--	--	AVERAGE																																																																														



Mode	2	
	Harmonic	
	2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 <p>Site : 03CH11-HY Condition: AVG_54 3m 91280_01620_240828 HORIZONTAL Mode : 2 Setting : Default Plane : Y with adapter</p>	 <p>Site : 03CH11-HY Condition: AVG_54 3m 91280_01620_240828 VERTICAL Mode : 2 Setting : Default Plane : Y with adapter</p>
17.7G ~18G Avg	 <p>Site : 03CH11-HY Condition: AVG_54 3m 91280_01620_240828 HORIZONTAL Mode : 2 Setting : Default Plane : Y with adapter</p>	 <p>Site : 03CH11-HY Condition: AVG_54 3m 91280_01620_240828 VERTICAL Mode : 2 Setting : Default Plane : Y with adapter</p>



Mode	3																																																																																																																			
	Band Edge																																																																																																																			
	2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz																																																																																																																			
Pol.	Horizontal	Fundamental																																																																																																																		
Peak	<div><p>Site : 03CH11-HY Condition: PEAK_BE_74 3m 91200_01620_240828 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Detector : PEAK Mode : 3 Setting : Default Plane : Y with adapter</p><table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2484.12</td><td>46.36</td><td>74.00</td><td>-27.64</td><td>44.31</td><td>27.84</td><td>7.32</td><td>33.11</td><td>0.00</td><td>136</td><td>334</td><td>PEAK</td></tr><tr><td>2</td><td>2484.12</td><td>21.58</td><td>54.00</td><td>-32.42</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>136</td><td>334</td><td>AVERAGE</td></tr></table></div>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	2484.12	46.36	74.00	-27.64	44.31	27.84	7.32	33.11	0.00	136	334	PEAK	2	2484.12	21.58	54.00	-32.42	--	--	--	--	--	136	334	AVERAGE	<div><p>Site : 03CH11-HY Condition: PEAK_74 3m 91200_01620_240828 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Detector : PEAK Mode : 3 Setting : Default Plane : Y with adapter</p><table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2480.00</td><td>109.76</td><td>-----</td><td>-----</td><td>107.77</td><td>27.80</td><td>7.31</td><td>33.12</td><td>0.00</td><td>136</td><td>334</td><td>PEAK</td></tr><tr><td>2</td><td>2480.00</td><td>84.98</td><td>-----</td><td>-----</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>136</td><td>334</td><td>AVERAGE</td></tr></table></div>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	2480.00	109.76	-----	-----	107.77	27.80	7.31	33.12	0.00	136	334	PEAK	2	2480.00	84.98	-----	-----	--	--	--	--	--	136	334	AVERAGE
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																											
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3

Mode

Band Edge

2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz

Pol.

Vertical

Fundamental

Peak

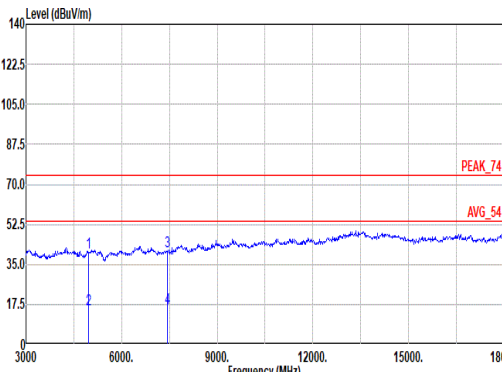
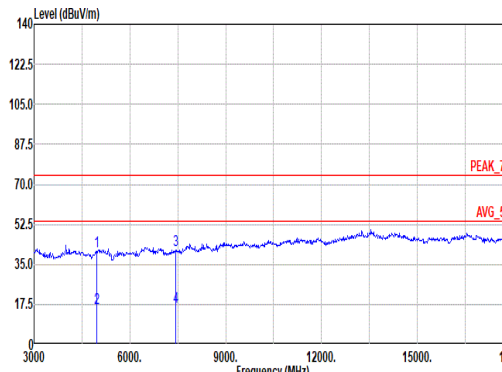
Site : 03CH11-HY
Condition: PEAK_BE_74 3m 91200_01620_240828 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Detector : PEAK
Mode : 3
Setting : Default
Plane : Y with adapter

	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark			
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor				
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg		
1	2484.48	44.76	74.00	-29.24	42.71	27.84	7.32	33.11	0.00	127	279	PEAK
2	2484.48	19.98	54.00	-34.02	--	--	--	--	--	127	279	AVERAGE

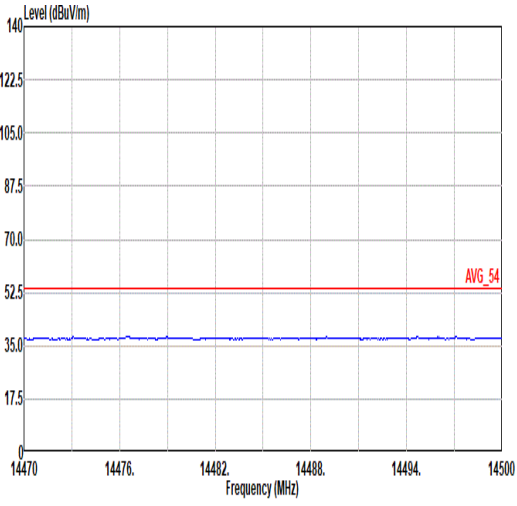
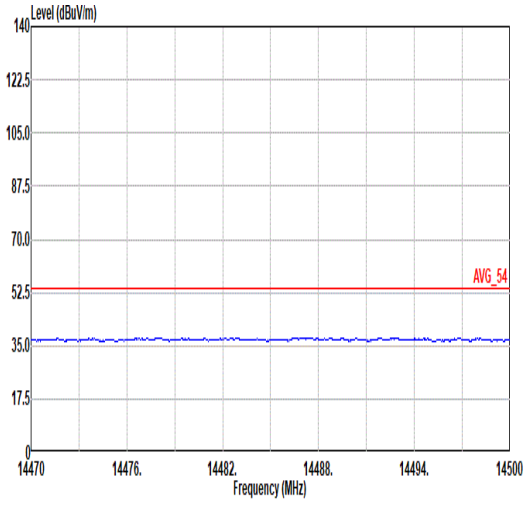
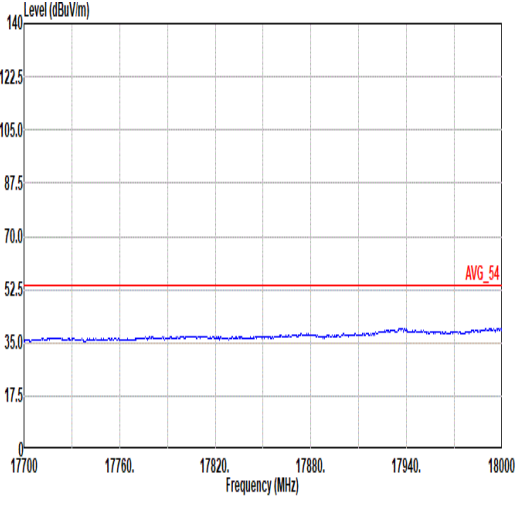
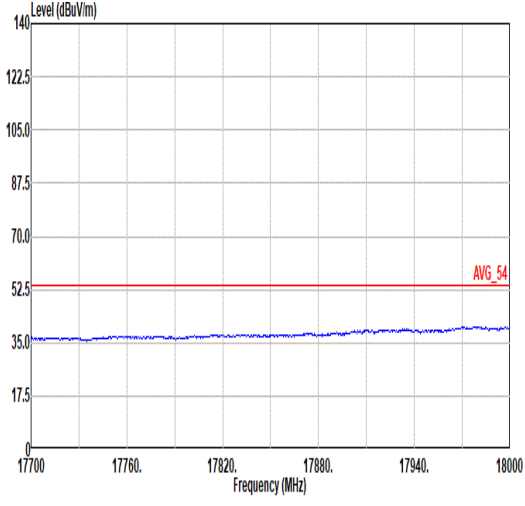
Site : 03CH11-HY
Condition: PEAK_74 3m 91200_01620_240828 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SMT:Auto
Detector : PEAK
Mode : 3
Setting : Default
Plane : Y with adapter

	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark			
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor				
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg		
1	2480.00	105.53	-----	-----	103.54	27.80	7.31	33.12	0.00	127	279	PEAK
2	2480.00	80.75	-----	-----	--	--	--	--	--	127	279	AVERAGE



Mode	3																																																																																								
	Harmonic																																																																																								
	2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz																																																																																								
Pol.	Horizontal																																																																																								
Peak Avg																																																																																									
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4	7440.00	15.91	54.00	-38.09	--	--	--	--	--	--	AVERAGE																																																																														
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3	7440.00	41.15	74.00	-32.85	57.70	36.24	12.82	65.93	0.32	--	PEAK																																																																														
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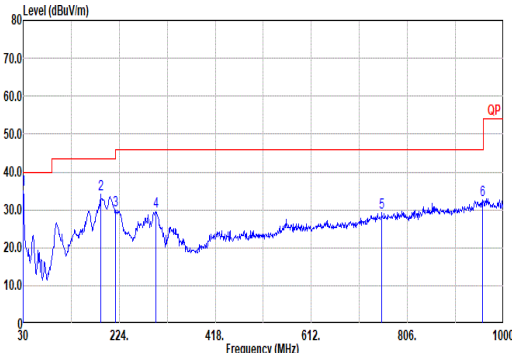
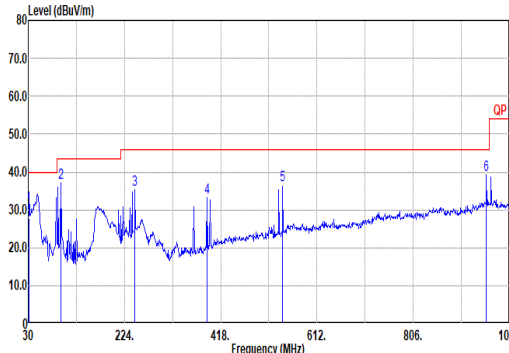


Mode	3	
	Harmonic	
	2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg	 <p>Site : 03CH11-HY Condition: AVG_54 3m 91280_01620_240828 HORIZONTAL Mode : 3 Setting : Default Plane : Y with adapter</p>	 <p>Site : 03CH11-HY Condition: AVG_54 3m 91280_01620_240828 VERTICAL Mode : 3 Setting : Default Plane : Y with adapter</p>
17.7G ~18G Avg	 <p>Site : 03CH11-HY Condition: AVG_54 3m 91280_01620_240828 HORIZONTAL Mode : 3 Setting : Default Plane : Y with adapter</p>	 <p>Site : 03CH11-HY Condition: AVG_54 3m 91280_01620_240828 VERTICAL Mode : 3 Setting : Default Plane : Y with adapter</p>

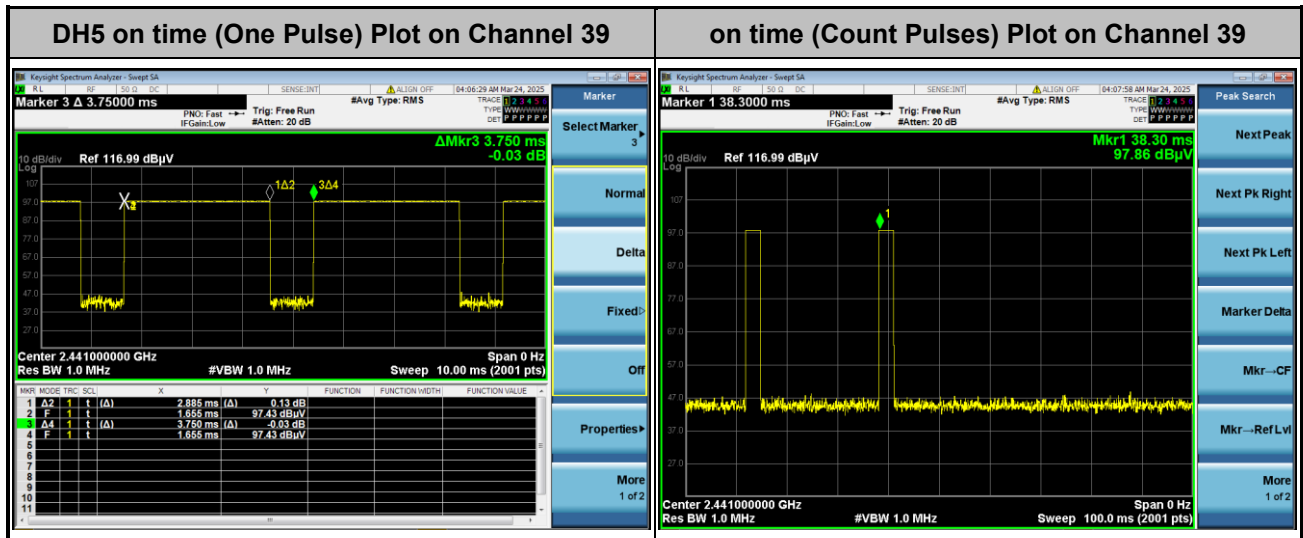


Mode	4																																																																																																																						
	SHF																																																																																																																						
	2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz																																																																																																																						
Pol.	Horizontal											Vertical																																																																																																											
Peak																																																																																																																							
	<div>Site : 03CH11-HY Condition: PEAK_74 1m SHF_1224_240624 HORIZONTAL Mode : 4 Setting : default Plane : Y with adapter</div> <table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th colspan="3">Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>cm</th><th>deg</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1 19169.02</td><td>40.06</td><td>74.00</td><td>-33.94</td><td>50.62</td><td>38.02</td><td>25.29</td><td>64.33</td><td>-9.54</td><td>--</td><td>--</td><td>PEAK</td></tr></tbody></table>													Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark			Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	cm	deg		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1 19169.02	40.06	74.00	-33.94	50.62	38.02	25.29	64.33	-9.54	--	--	PEAK	<div>Site : 03CH11-HY Condition: PEAK_74 1m SHF_1224_240624 VERTICAL Mode : 4 Setting : default Plane : Y with adapter</div> <table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th colspan="3">Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>cm</th><th>deg</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1 19508.03</td><td>40.81</td><td>74.00</td><td>-33.19</td><td>51.30</td><td>37.83</td><td>25.61</td><td>64.39</td><td>-9.54</td><td>--</td><td>--</td><td>PEAK</td></tr></tbody></table>													Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark			Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	cm	deg		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1 19508.03	40.81	74.00	-33.19	51.30	37.83	25.61	64.39	-9.54	--	--
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																														
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Pol.	Horizontal	Vertical																																																																																																																																																																																																																								
QPI Peak	<div><p>Site : 03CH11-HY Condition: QP 3m B1LOG_37059801_241127 HORIZONTAL Mode : 5 Setting : Plane : Y with adapter</p><table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th></tr><tr><td>1</td><td>30.00</td><td>35.32</td><td>40.00</td><td>-4.68</td><td>42.38</td><td>24.51</td><td>0.86</td><td>32.43</td><td>0.00</td><td>100</td><td>360</td><td>QP</td></tr><tr><td>2</td><td>186.17</td><td>33.98</td><td>43.50</td><td>-9.52</td><td>49.11</td><td>15.00</td><td>2.00</td><td>32.21</td><td>0.00</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>3</td><td>216.24</td><td>30.04</td><td>46.00</td><td>-15.96</td><td>45.04</td><td>15.04</td><td>2.15</td><td>32.19</td><td>0.00</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>4</td><td>298.69</td><td>29.63</td><td>46.00</td><td>-16.37</td><td>39.90</td><td>19.40</td><td>2.54</td><td>32.21</td><td>0.00</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>5</td><td>754.59</td><td>29.21</td><td>46.00</td><td>-16.79</td><td>28.92</td><td>28.37</td><td>4.00</td><td>32.08</td><td>0.00</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>6</td><td>957.32</td><td>32.62</td><td>46.00</td><td>-13.38</td><td>27.73</td><td>31.17</td><td>4.54</td><td>30.82</td><td>0.00</td><td>--</td><td>--</td><td>Peak</td></tr></table></div>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	1	30.00	35.32	40.00	-4.68	42.38	24.51	0.86	32.43	0.00	100	360	QP	2	186.17	33.98	43.50	-9.52	49.11	15.00	2.00	32.21	0.00	--	--	Peak	3	216.24	30.04	46.00	-15.96	45.04	15.04	2.15	32.19	0.00	--	--	Peak	4	298.69	29.63	46.00	-16.37	39.90	19.40	2.54	32.21	0.00	--	--	Peak	5	754.59	29.21	46.00	-16.79	28.92	28.37	4.00	32.08	0.00	--	--	Peak	6	957.32	32.62	46.00	-13.38	27.73	31.17	4.54	30.82	0.00	--	--	Peak	<div><p>Site : 03CH11-HY Condition: QP 3m B1LOG_37059801_241127 VERTICAL Mode : 5 Setting : Plane : Y with adapter</p><table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th></tr><tr><td>1</td><td>30.97</td><td>27.00</td><td>40.00</td><td>-12.20</td><td>35.13</td><td>24.21</td><td>0.87</td><td>32.41</td><td>0.00</td><td>100</td><td>5</td><td>QP</td></tr><tr><td>2</td><td>95.96</td><td>37.11</td><td>43.50</td><td>-6.39</td><td>52.27</td><td>15.69</td><td>1.47</td><td>32.32</td><td>0.00</td><td>129</td><td>0</td><td></td></tr><tr><td>3</td><td>245.34</td><td>35.17</td><td>46.00</td><td>-10.83</td><td>47.03</td><td>18.03</td><td>2.31</td><td>32.20</td><td>0.00</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>4</td><td>389.87</td><td>33.28</td><td>46.00</td><td>-12.72</td><td>40.77</td><td>21.67</td><td>2.91</td><td>32.07</td><td>0.00</td><td>200</td><td>360</td><td></td></tr><tr><td>5</td><td>543.13</td><td>36.38</td><td>46.00</td><td>-9.62</td><td>40.34</td><td>24.78</td><td>3.43</td><td>32.17</td><td>0.00</td><td>--</td><td>--</td><td>Peak</td></tr><tr><td>6</td><td>953.44</td><td>39.18</td><td>46.00</td><td>-6.82</td><td>34.43</td><td>31.08</td><td>4.53</td><td>30.86</td><td>0.00</td><td>137</td><td>0</td><td></td></tr></table></div>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	1	30.97	27.00	40.00	-12.20	35.13	24.21	0.87	32.41	0.00	100	5	QP	2	95.96	37.11	43.50	-6.39	52.27	15.69	1.47	32.32	0.00	129	0		3	245.34	35.17	46.00	-10.83	47.03	18.03	2.31	32.20	0.00	--	--	Peak	4	389.87	33.28	46.00	-12.72	40.77	21.67	2.91	32.07	0.00	200	360		5	543.13	36.38	46.00	-9.62	40.34	24.78	3.43	32.17	0.00	--	--	Peak	6	953.44	39.18	46.00	-6.82	34.43	31.08	4.53	30.86	0.00	137	0	
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Appendix D. Duty Cycle Plots



Note:

1. Worst case Duty cycle = on time/100 milliseconds = $2 \times 2.89 / 100 = 5.78 \%$
2. Worst case Duty cycle correction factor = $20 \times \log(\text{Duty cycle}) = -24.78 \text{ dB}$
3. DH5 has the highest duty cycle worst case and is reported.

Duty Cycle Correction Factor Consideration for AFH mode:

Bluetooth normal hopping rate is 1600Hz and reduced to 800Hz in AFH mode; due to the reduced number of hopping frequencies, with the same packet configuration the dwell time in each channel frequency within 100msec period is longer in AFH mode than normal mode.

In AFH mode, the minimum hopping frequencies are 20, to get the longest dwell time DH5 packet is observed; the on time period to have DH5 packet completing one hopping sequence is

$$2.89 \text{ ms} \times 20 \text{ channels} = 57.8 \text{ ms}$$

There cannot be 2 complete hopping sequences within 100ms period, considering the random hopping behavior, maximum 2 hops can be possibly observed within the period. $[100 \text{ ms} / 57.8 \text{ ms}] = 2 \text{ hops}$

Thus, the maximum possible ON time:

$$2.89 \text{ ms} \times 2 = 5.78 \text{ ms}$$

Worst case Duty Cycle Correction factor, which is derived from the maximum possible ON time,

$$20 \times \log(5.78 \text{ ms}/100 \text{ ms}) = -24.78 \text{ dB}$$



Appendix E. Spot Check Evaluation on G8AK3

Conducted power test and radiated spurious emission test configurations were selected from the worst cases identified in the parent model and tested to demonstrate the test data from original model remains representative for the variant model.

The deviation between the spot check and the referenced values is within 3dB, therefore data referencing is justified according to the guidance in the ECR inquiry

Summary for power and RSE spot check for each FCC rule part is listed as below:

Test Item	Mode	A4RG1KAW Reference Worst Result	A4RG8AK3 Variant Check Result	Difference (dB)
Conducted Power (dBm)	BT	19.76	19.49	0.27
	BLE	19.53	19.40	0.13
	BLE ASK	19.64	19.32	0.32
	BLE GFSK	19.60	19.40	0.20
	WiFi 2.4GHz	20.90	20.80	0.10
	WiFi 5GHz	18.40	18.40	0.00
Radiated Band Edges and Spurious Emission (dBuV/m)	BT	-26.90	-29.46	2.56
	BLE	-8.96	-7.07	1.89
	BLE ASK	-28.11	-26.86	1.25
	BLE GFSK	-4.78	-5.00	0.22
	WiFi 2.4GHz	-1.76	-3.56	1.80
	WiFi 5GHz	-2.45	-2.80	0.35



Reference detail Section

Rule Part	Equipment Class	Wireless Technology	Rule Part & Frequency Band	Reference FCC ID (Parent)	Type Grant/ Permissive Change	Reference Exhibit	Full report referenced	FCC ID Filling (Variant)
15C	DSS	BT BR	§15.247 2.4GHz	A4RG1KAW	Original Grant	G1KAW_FCC Part 15C BT	Y	A4RG8AK3



List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 01, 2024	Mar. 26, 2025~ Mar. 27, 2025	Oct. 31, 2025	Conducted (TH05-HY)
Power Meter	Anritsu	ML2495A	1036004	N/A	Jul. 04, 2024	Mar. 26, 2025~ Mar. 27, 2025	Jul. 03, 2025	Conducted (TH05-HY)
Power Meter	Agilent	E4416A	GB41292344	N/A	Jun. 26, 2024	Mar. 26, 2025~ Mar. 27, 2025	Jun. 25, 2025	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1027253	300MHz~40GHz	Jul. 04, 2024	Mar. 26, 2025~ Mar. 27, 2025	Jul. 03, 2025	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	13100030SNO 31 (NO:182)	9kHz~6GHz	Jan. 09, 2025	Mar. 26, 2025~ Mar. 27, 2025	Jan. 08, 2026	Conducted (TH05-HY)
Power Sensor	Agilent	E9327A	US40441548	50MHz~18GHz	Jun. 25, 2024	Mar. 26, 2025~ Mar. 27, 2025	Jun. 24, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 23, 2024	Mar. 26, 2025~ Mar. 27, 2025	Aug. 22, 2025	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101467	10HZ~44GHZ	Jan. 14, 2025	Mar. 26, 2025~ Mar. 27, 2025	Jan. 13, 2026	Conducted (TH05-HY)
Switch Control Mainframe	Burgeon	ETF-058	EC1300484 (BOX3)	N/A	May 20, 2024	Mar. 26, 2025~ Mar. 27, 2025	May 19, 2025	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_v ersion_240513	N/A	Conducted Other Test Item	N/A	Mar. 26, 2025~ Mar. 27, 2025	N/A	Conducted (TH05-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N- 06	37059 & 01	30MHz~1GHz	Nov. 27, 2024	Mar. 25, 2025 ~ Apr. 08, 2025	Nov. 26, 2025	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Aug. 29, 2024	Mar. 25, 2025 ~ Apr. 08, 2025	Aug. 28, 2025	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-01620	1GHz~18GHz	Aug. 28, 2024	Mar. 25, 2025 ~ Apr. 08, 2025	Aug. 27, 2025	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1224	18GHz~40GHz	Jun. 24, 2024	Mar. 25, 2025 ~ Apr. 08, 2025	Jun. 23, 2025	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 07, 2024	Mar. 25, 2025 ~ Apr. 08, 2025	Dec. 06, 2025	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Mar. 23, 2025	Mar. 25, 2025 ~ Apr. 08, 2025	Mar. 22, 2026	Radiation (03CH11-HY)
Preamplifier	E- INSTRUMENT TECH LTD.	ERA-100M-18G- 56-01-A70	EC1900249	1GHz~18GHz	Jan. 21, 2025	Mar. 25, 2025 ~ Apr. 08, 2025	Jan. 20, 2026	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Sep. 02, 2024	Mar. 25, 2025 ~ Apr. 08, 2025	Sep. 01, 2025	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 14, 2024	Mar. 25, 2025 ~ Apr. 08, 2025	Oct. 13, 2025	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY55420170	20MHz~8.4GHz	Jul. 19, 2024	Mar. 25, 2025 ~ Apr. 08, 2025	Jul. 18, 2025	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Mar. 25, 2025 ~ Apr. 08, 2025	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Mar. 25, 2025 ~ Apr. 08, 2025	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Mar. 25, 2025 ~ Apr. 08, 2025	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Mar. 25, 2025 ~ Apr. 08, 2025	N/A	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP200880	N/A	Aug. 29, 2024	Mar. 25, 2025 ~ Apr. 08, 2025	Aug. 28, 2025	Radiation (03CH11-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804013/2	30M~40G	May 05, 2025	Mar. 25, 2025 ~ Apr. 08, 2025	May 04, 2026	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz~40GHz	May 05, 2025	Mar. 25, 2025 ~ Apr. 08, 2025	May 04, 2026	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	May 05, 2025	Mar. 25, 2025 ~ Apr. 08, 2025	May 04, 2026	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	30M~40G	May 05, 2025	Mar. 25, 2025 ~ Apr. 08, 2025	May 04, 2026	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60SS	SN3	3GHz High Pass Filter	Sep. 10, 2024	Mar. 25, 2025 ~ Apr. 08, 2025	Sep. 09, 2025	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN11	1.53GHz Low Pass Filter	Sep. 10, 2024	Mar. 25, 2025 ~ Apr. 08, 2025	Sep. 09, 2025	Radiation (03CH11-HY)
Attenuator	HONOVA	5910 SMA-50-005	0028	N/A	Sep. 10, 2024	Mar. 25, 2025 ~ Apr. 08, 2025	Sep. 09, 2025	Radiation (03CH11-HY)

————THE END————