FCC RADIO TEST REPORT

FCC ID	:	**A4RG1XJ6**
Equipment	:	**Wireless Device**
Model Name	:	**G1XJ6**
Applicant	:	**Google LLC** **1600 Amphitheatre Parkway,** **Mountain View, CA, 94043 USA**
Standard	:	**FCC Part 15 Subpart C §15.247**

The product was received on Jan. 26, 2026 and testing was performed from Jan. 30, 2026 to Mar. 13, 2026. 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.

Louis Wu

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
FR5O3008G	01	Initial issue of report	Apr. 01, 2026

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 A4RG0F3Y has been approved by FCC. The ECR inquiry and the associated document are submitted in the confidential exhibit.
2. A4RG1XJ6 is different from FCC ID: A4RG0F3Y (Reference model), in the following:
   - The only difference between A4RG0F3Y and A4RG1XJ6 are the LTE and NTN function, which is depopulated by hardware.
3. All the test results are referenced from A4RG0F3Y (Sporton Test Report FR5O3007G), 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/manufacturer 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: Shiori Chen

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs Bluetooth, Bluetooth-LE, Bluetooth-LE ASK, Bluetooth-LE 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**
5C261WRDQL13VE	RF Conducted Measurement
5C251WRDQL13PF	Radiated Spurious Emission
5C261WRDQL13RY	Conducted Emission

Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	-6.0

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

The test location is accredited based on TAF code 3786 designated by NCC (National Communication Commission).

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.)

FCC designation No.: TW3786

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

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 C63.10-2020 + Cor.1-2023

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

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 case emissions were reported in this report.

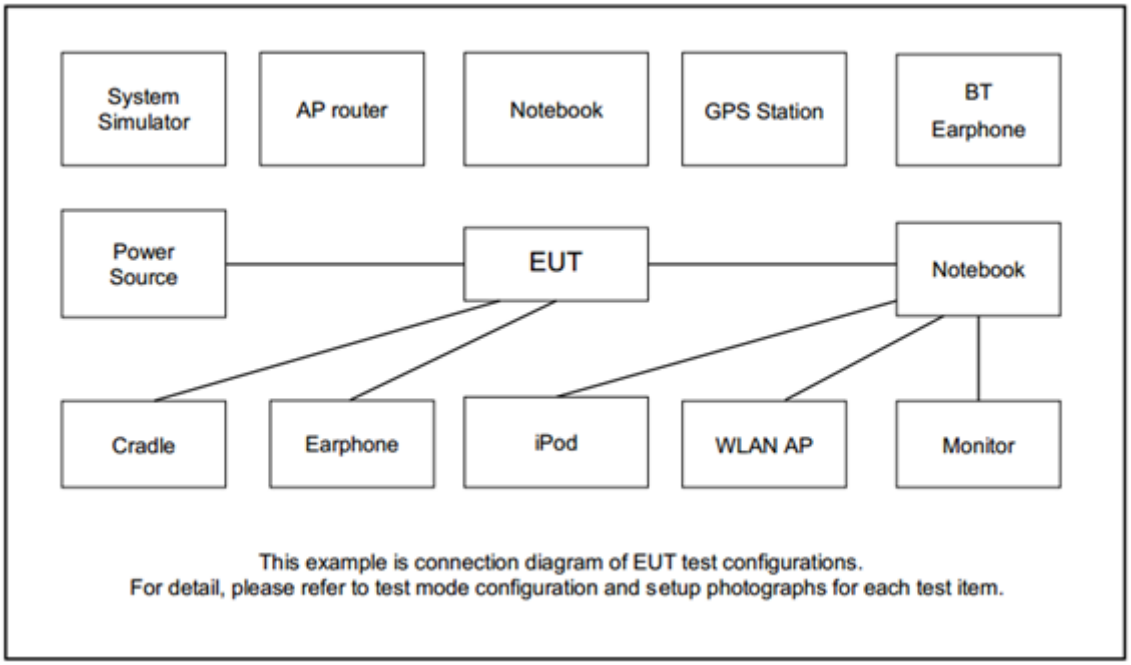
b. AC power line Conducted Emission was tested under maximum output power.

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 LE 1Mbps ASK**	**Bluetooth LE 2Mbps ASK**
	Mode 1: CH02_2404 MHz Mode 2: CH38_2440 MHz Mode 3: CH76_2478 MHz	Mode 4: CH02_2404 MHz Mode 5: CH38_2440 MHz Mode 6: CH76_2478 MHz
AC Conducted Emission	Mode 1: Bluetooth-LE (1MHz CH38) ASK Tx + USB Cable (Charging from AC Adapter)	

Remark:
1. For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.
2. The detailed Radiated test modes are shown in Appendix C.

2.3 Connection Diagram of Test System



2.4 EUT Operation Test Setup

The RF test items, utility "adb version 1.0.40" 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.

2.5 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.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

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.

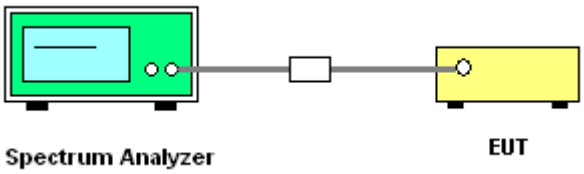
3.1.2 Measuring Instruments

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 ≥ 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.

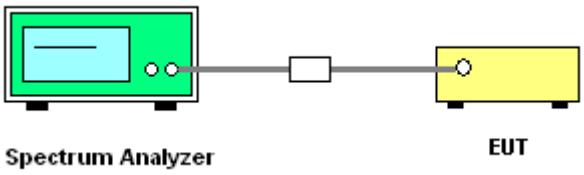
3.2.2 Measuring Instruments

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 ≥ 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.

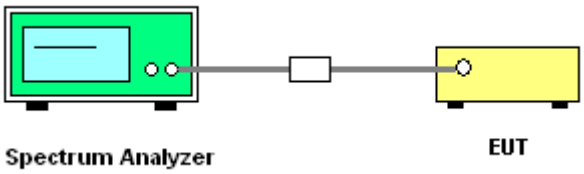
3.3.2 Measuring Instruments

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 ≥ 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

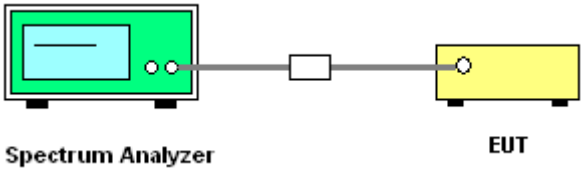
3.4.2 Measuring Instruments

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 ≥ 1% of the 20 dB bandwidth; VBW ≥ 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 within 1-5% of the 99% bandwidth; VBW ≥ 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.

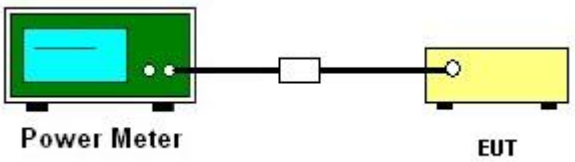
3.5.2 Measuring Instruments

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. The average power is compensated with duty factor.
6. 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.

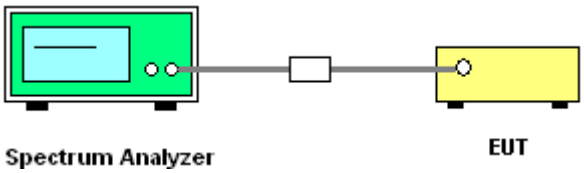
3.6.2 Measuring Instruments

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.

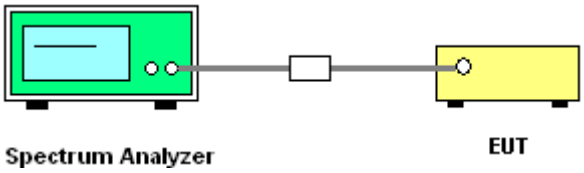
3.7.2 Measuring Instruments

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.

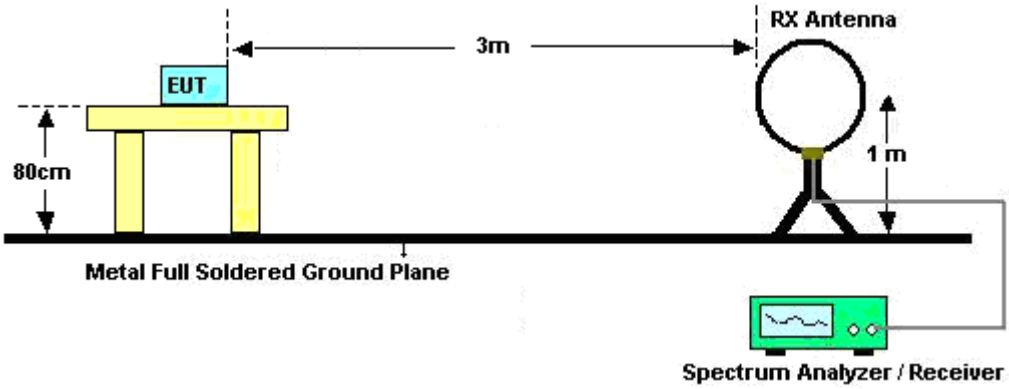
3.8.3 Test Procedures

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 ≥ 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 = $N_1*L_1+N_2*L_2+...+N_{n-1}*LN_{n-1}+N_n*L_n$
   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)

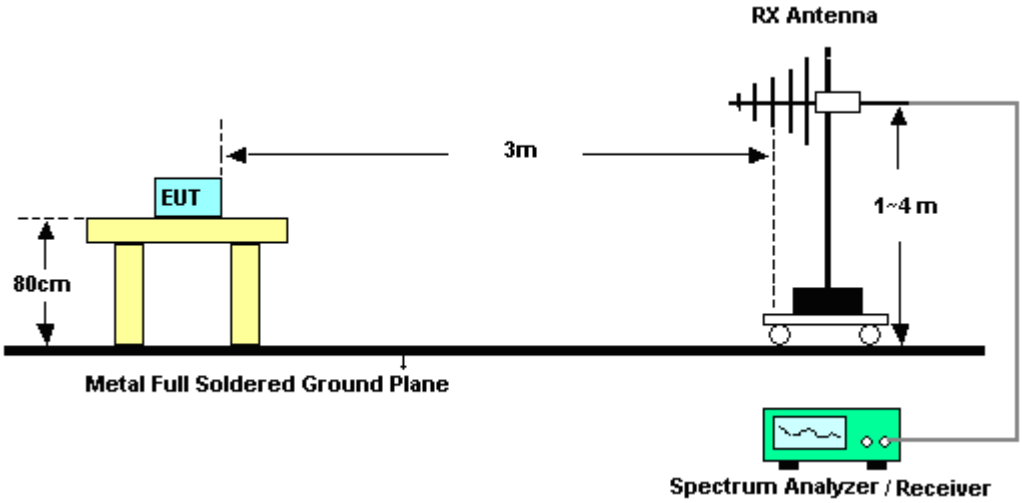
6. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
7. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected 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 "-".

3.8.4 Test Setup

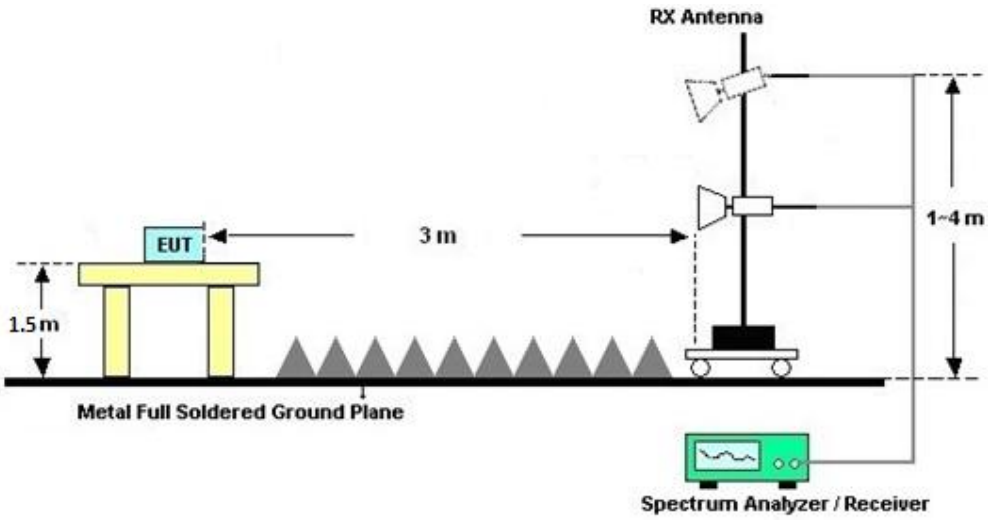
For radiated test below 30MHz



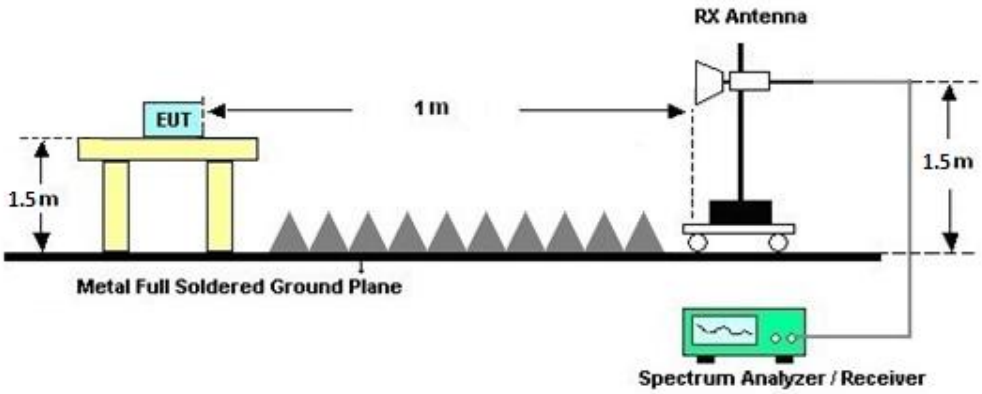
For radiated test from 30MHz to 1GHz



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 (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

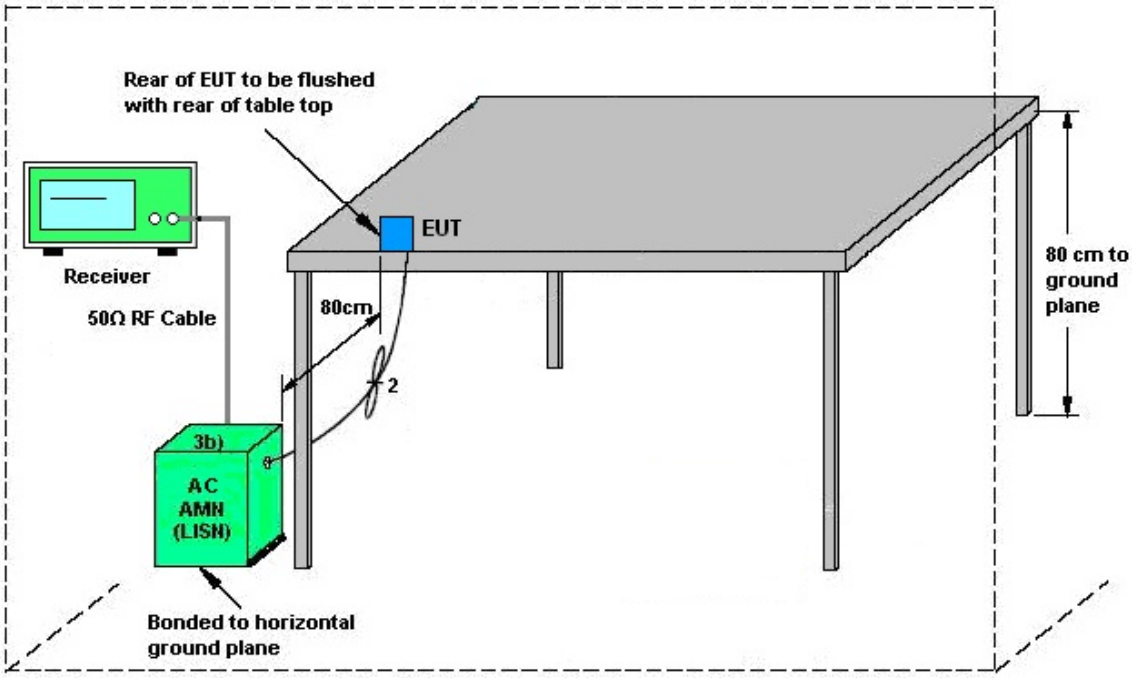
3.9.2 Measuring Instruments

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



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

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.

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
LOOP Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec. 11, 2025	Feb. 03, 2026~ Mar. 05, 2026	Dec. 10, 2026	Radiation (03CH21-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63303 & 001	30MHz~1GHz	Nov. 26, 2025	Feb. 03, 2026~ Mar. 05, 2026	Nov. 25, 2026	Radiation (03CH21-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C03A18EN	1GHz~18GHz	Aug. 07, 2025	Feb. 03, 2026~ Mar. 05, 2026	Aug. 06, 2026	Radiation (03CH21-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1223	18GHz~40GHz	Jul. 02, 2025	Feb. 03, 2026~ Mar. 05, 2026	Jul. 01, 2026	Radiation (03CH21-HY)
Amplifier	SONOMA	310N	421580	30MHz~1GHz	Jul. 13, 2025	Feb. 03, 2026~ Mar. 05, 2026	Jul. 12, 2026	Radiation (03CH21-HY)
Amplifier	EMEC	EM01G18GA	060876	1GHz~18GHz	Sep. 26, 2025	Feb. 03, 2026~ Mar. 05, 2026	Sep. 25, 2026	Radiation (03CH21-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Aug. 26, 2025	Feb. 03, 2026~ Mar. 05, 2026	Aug. 25, 2026	Radiation (03CH21-HY)
EXA Signal Analyzer	Keysight	N9010B	MY62170358	10Hz~44GHz	Sep. 09, 2025	Feb. 03, 2026~ Mar. 05, 2026	Sep. 08, 2026	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 05, 2025	Feb. 03, 2026~ Mar. 03, 2026	Mar. 04, 2026	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 04, 2026	Mar. 04, 2026~ Mar. 05, 2026	Mar. 03, 2027	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804397/2,804612/2,803954/2	30MHz~40GHz	Aug. 11, 2025	Feb. 03, 2026~ Mar. 05, 2026	Aug. 10, 2026	Radiation (03CH21-HY)
RF Cable	EMCI	EMC101Y-KM-KM-1000	240906	30MHz~40GHz	Oct. 21, 2025	Feb. 03, 2026~ Mar. 05, 2026	Oct. 20, 2026	Radiation (03CH21-HY)
Hygrometer	TECPEL	DTM-303A	TP211568	N/A	Oct. 21, 2025	Feb. 03, 2026~ Mar. 05, 2026	Oct. 20, 2026	Radiation (03CH21-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Feb. 03, 2026~ Mar. 05, 2026	N/A	Radiation (03CH21-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Feb. 03, 2026~ Mar. 05, 2026	N/A	Radiation (03CH21-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Feb. 03, 2026~ Mar. 05, 2026	N/A	Radiation (03CH21-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Feb. 03, 2026~ Mar. 05, 2026	N/A	Radiation (03CH21-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 04, 2025	Jan. 30, 2026~ Feb. 25, 2026	Nov. 03, 2026	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	17I00015SNO37 (NO:167)	10MHz~6GHz	Nov. 14, 2025	Jan. 30, 2026~ Feb. 25, 2026	Nov. 13, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101468	10HZ~44GHZ	Mar. 13, 2025	Jan. 30, 2026~ Feb. 25, 2026	Mar. 12, 2026	Conducted (TH05-HY)
Switch Control Mainframe	E-Instument	ETF-1405-0	EC1900067 (BOX7)	N/A	Jul. 02, 2025	Jan. 30, 2026~ Feb. 25, 2026	Jul. 01, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_version_240513	N/A	Conducted Other Test Item	N/A	Jan. 30, 2026~ Feb. 25, 2026	N/A	Conducted (TH05-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. 13, 2026	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Mar. 13, 2026	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 20, 2025	Mar. 13, 2026	Oct. 19, 2026	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 02, 2026	Mar. 13, 2026	Mar. 01, 2027	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 24, 2025	Mar. 13, 2026	Mar. 23, 2026	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 26, 2025	Mar. 13, 2026	Mar. 25, 2026	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Oct. 21, 2025	Mar. 13, 2026	Oct. 20, 2026	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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.4 dB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.8 dB

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.8 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.3 dB

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Shiming Liu	Temperature:	21~25	°C
Test Date:	2026/1/30~2026/2/25	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
BLE ASK	1Mbps	1	01	2404	0.055	0.184	1.012	0.0367	Pass
	1Mbps	1	19	2440	0.055	0.175	1.003	0.0369	Pass
	1Mbps	1	38	2478	0.055	0.175	0.999	0.0364	Pass
	2Mbps	1	01	2404	0.055	0.201	1.020	0.0365	Pass
	2Mbps	1	19	2440	0.055	0.206	1.007	0.0368	Pass
	2Mbps	1	38	2478	0.054	0.193	0.977	0.0361	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
BLE ASK	72	1870.000	0.06	0.12	0.4	Pass

TEST RESULTS DATA
Peak Power Table

DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
BLE ASK 1M	01	1	20.54	20.97	Pass
	19	1	20.61	20.97	Pass
	38	1	20.52	20.97	Pass
BLE ASK 2M	01	1	20.46	20.97	Pass
	19	1	20.54	20.97	Pass
	38	1	20.61	20.97	Pass

TEST RESULTS DATA
Average Power Table
(Reporting Only)

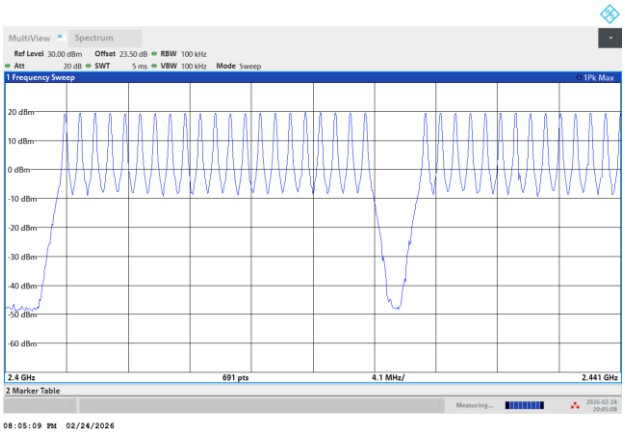
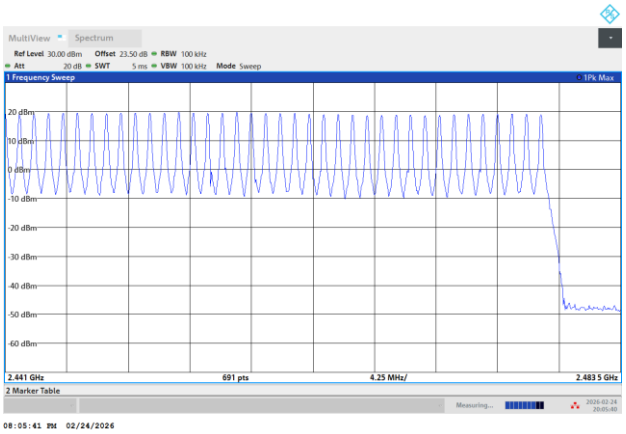
DH	CH.	NTX	Average Power (dBm)	Duty Factor (dB)
BLE ASK 1M	01	1	19.42	5.15
	19	1	19.49	5.15
	38	1	19.41	5.15
BLE ASK 2M	01	1	19.45	5.14
	19	1	19.45	5.14
	38	1	19.47	5.14

TEST RESULTS DATA
Number of Hopping Frequency

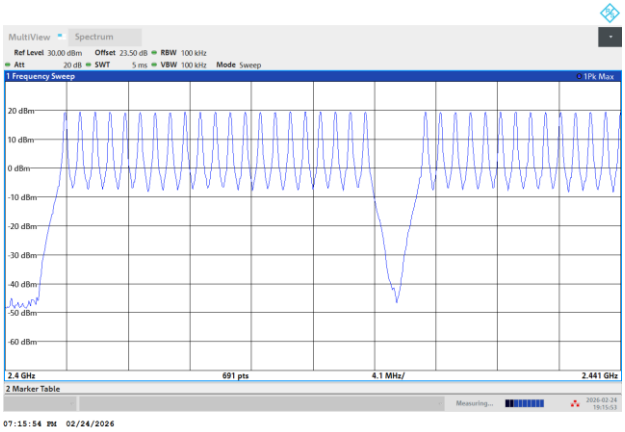
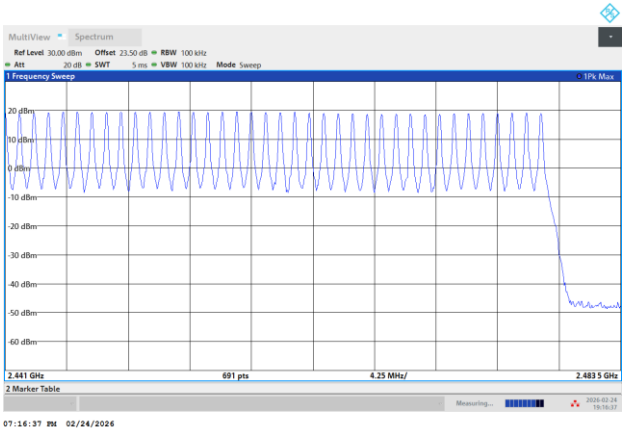
Number of Hopping (Channel)	Adaptive Frequency Hopping (Channel)	Limits (Channel)	Pass/Fail
72	20	> 15	Pass

Number of Hopping Frequency

<1Mbps>

Number of Hopping Channel Plot	
Channel 02 - 38	**Channel 38 - 76**
	

<2Mbps>

Number of Hopping Channel Plot	
Channel 02 - 38	**Channel 38 - 76**
	

Hopping Channel Separation

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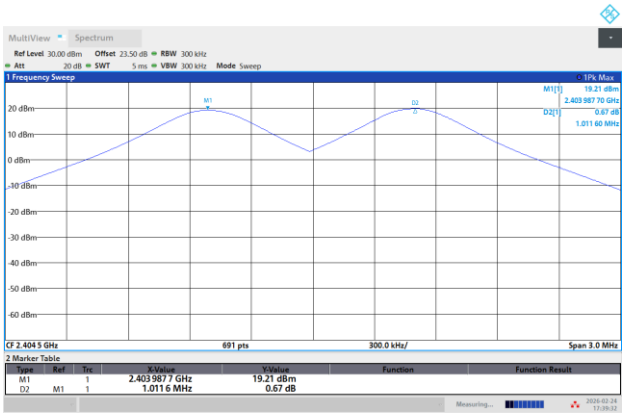
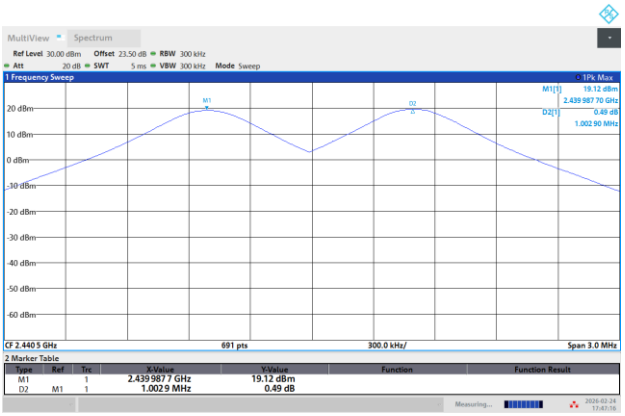
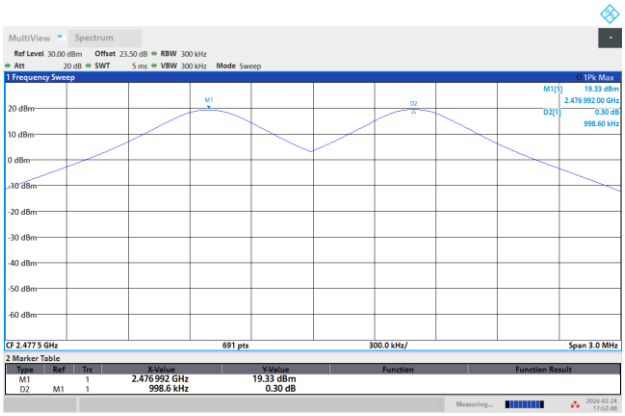
Channel Separation Plot on Channel 02 - 03	Channel Separation Plot on Channel 38 - 39
	
Channel Separation Plot on Channel 75 - 76	
	

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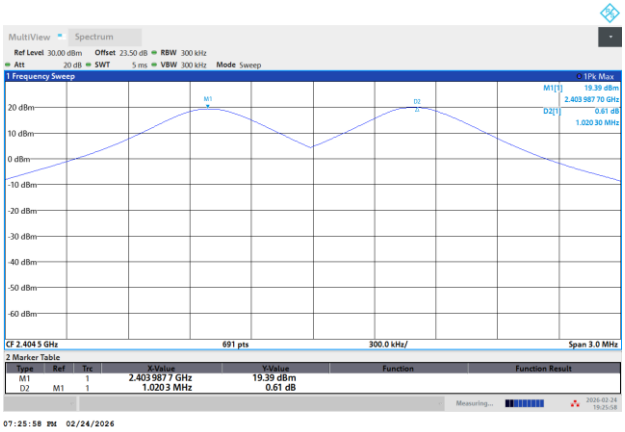
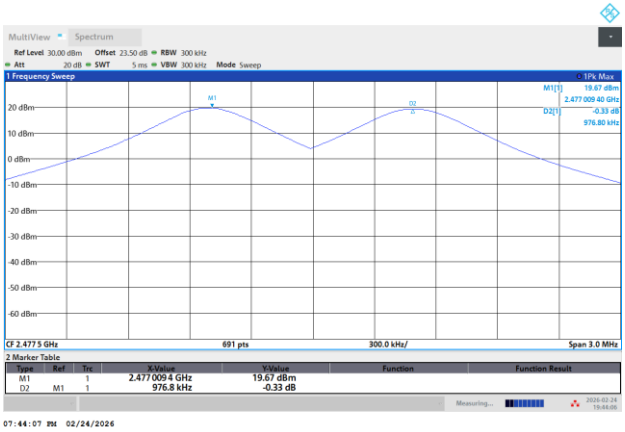
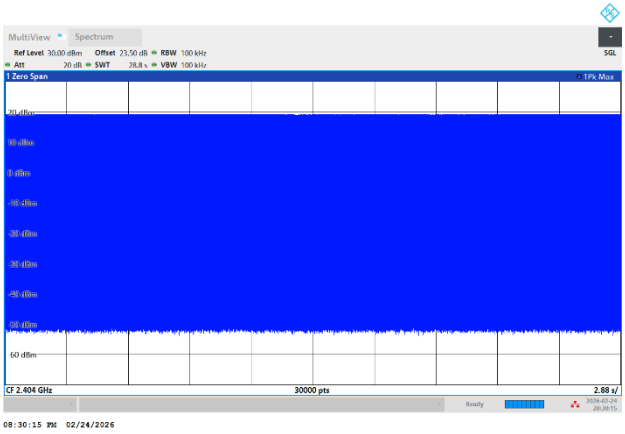
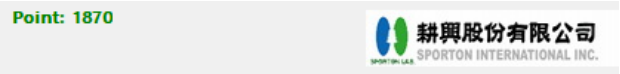
Channel Separation Plot on Channel 02 - 03	Channel Separation Plot on Channel 38 - 39
	
Channel Separation Plot on Channel 75 - 76	
	

Dwell Time

Total number of hops observed	On-time hops count
	

Remark:

1. Dwell Time(sec) = Hops Over Occupancy Time (hops) x Package Transfer Time (sec)
2. The Hops over occupancy time is the total number of hops observed in sweep point 30,000. This shows that 1ms per on-time contains 1 hop. The total hops is finally counted via computer analysis.
3. Package transfer time(sec) = Total hops / observation sweep time

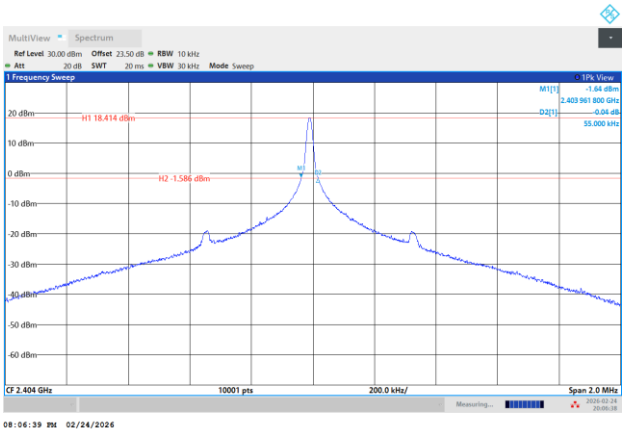
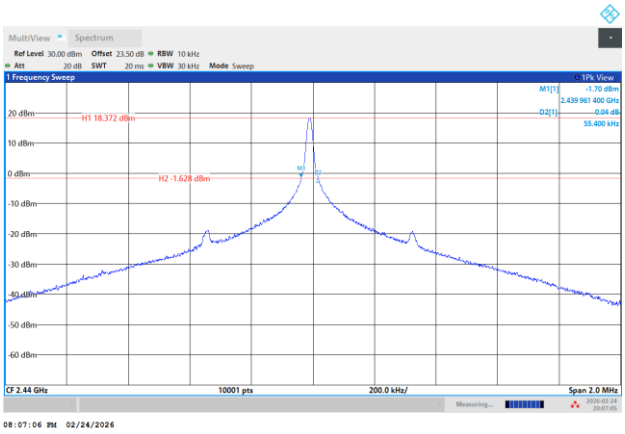
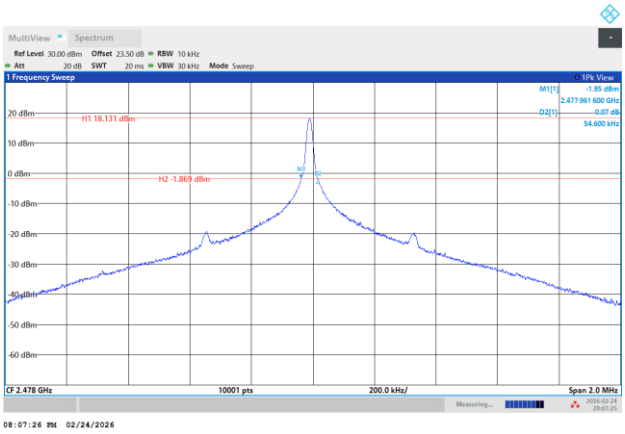
Calculation example:

Package transfer time(sec) = 1870 / 30000 = 0.0623 (msec)

Dwell Time(sec) = 1870 * 0.0000623 = 0.1165 (sec)

20dB Bandwidth

<1Mbps>

20 dB Bandwidth Plot in Channel 02	20 dB Bandwidth Plot in Channel 38
	
20 dB Bandwidth Plot in Channel 76	
	

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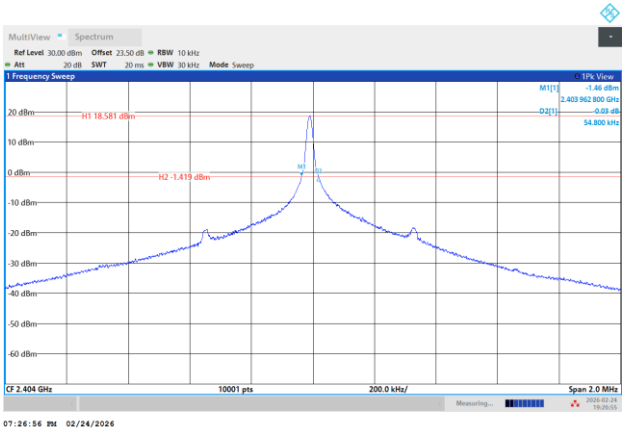
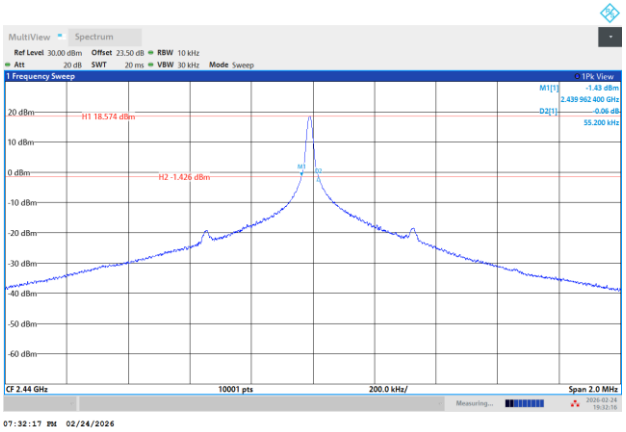
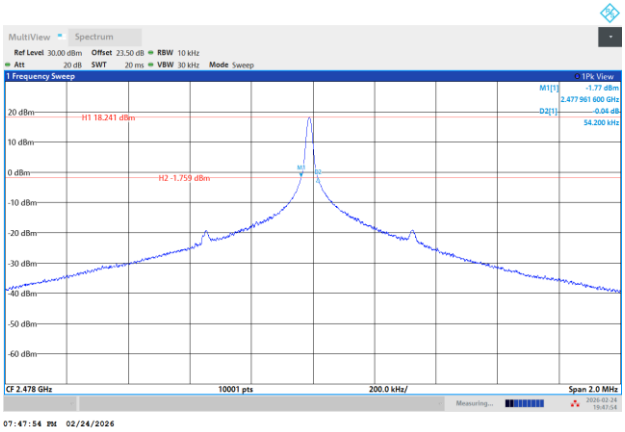
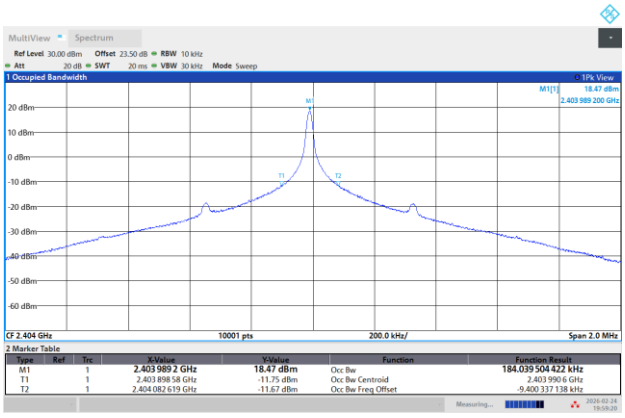
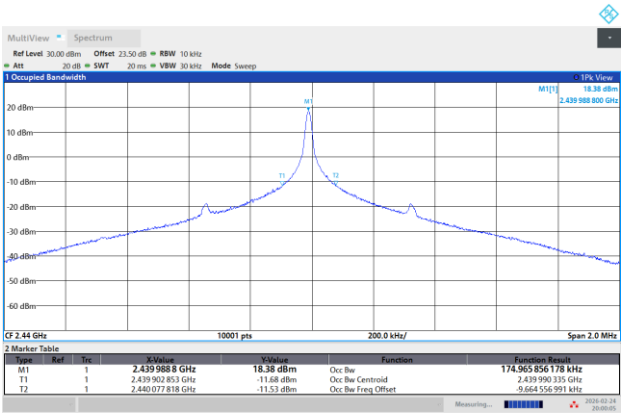
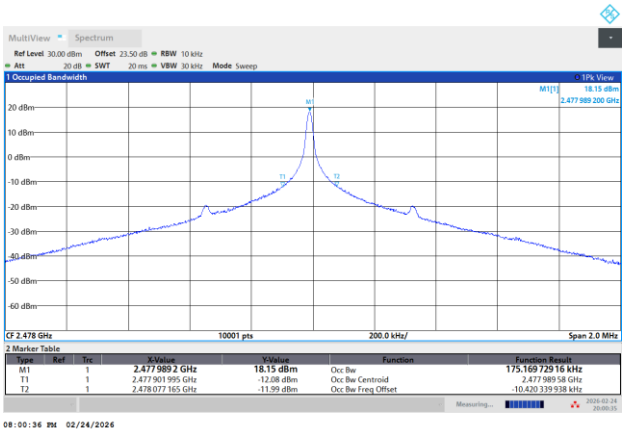
20 dB Bandwidth Plot in Channel 02	20 dB Bandwidth Plot in Channel 38
	
20 dB Bandwidth Plot in Channel 76	
	

99% Occupied Bandwidth

<1Mbps>

99% Occupied Bandwidth on Channel 02	99% Occupied Bandwidth on Channel 38
	
99% Occupied Bandwidth on Channel 76	
	

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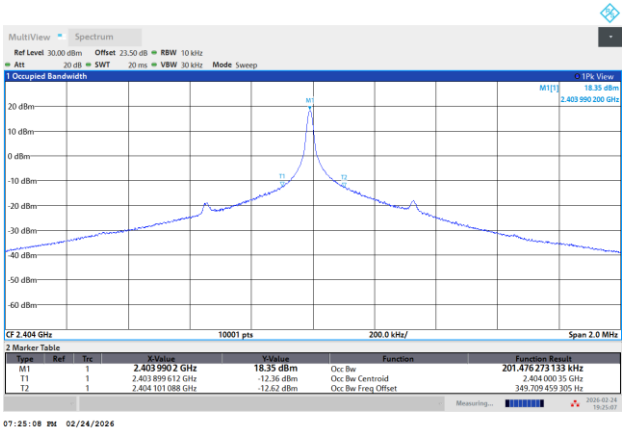
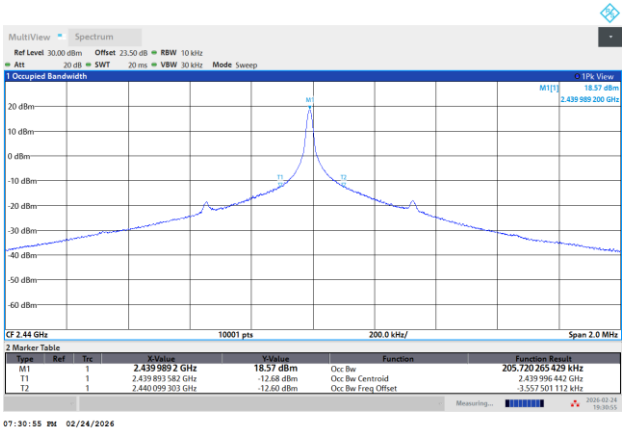
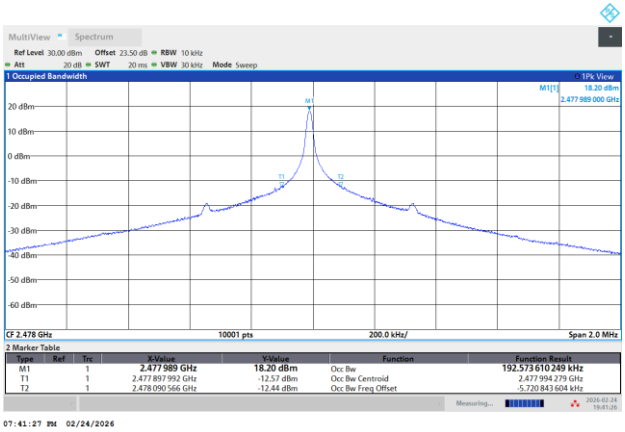
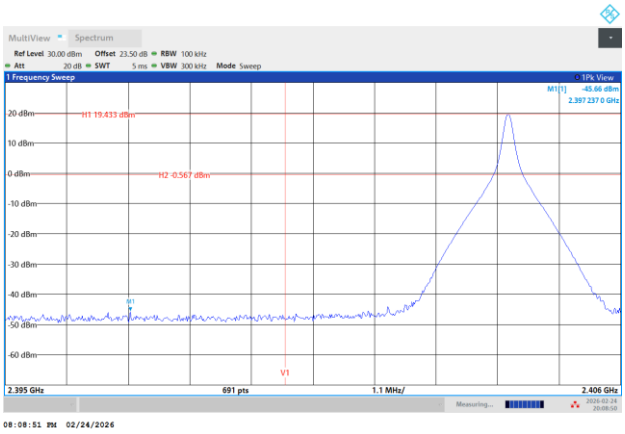
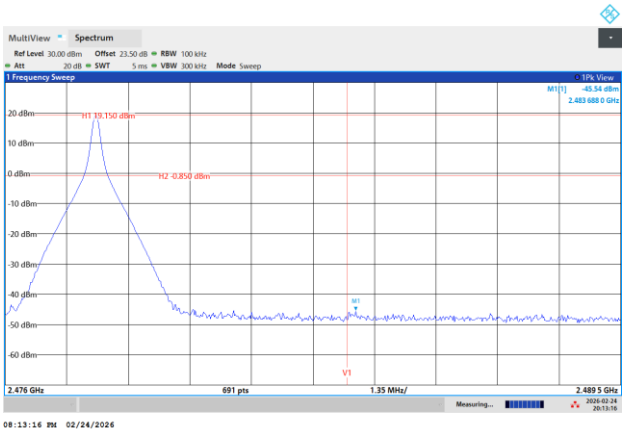
99% Occupied Bandwidth on Channel 02	99% Occupied Bandwidth on Channel 38
	
99% Occupied Bandwidth on Channel 76	
	

Band Edges

<1Mbps>

Band Edge Plot on Channel 02	Band Edge Plot on Channel 76
	

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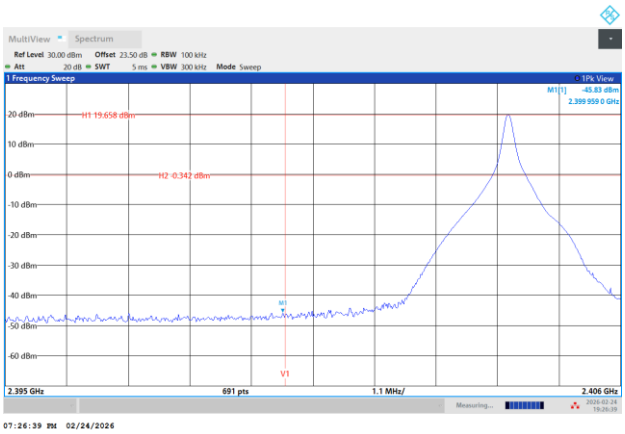
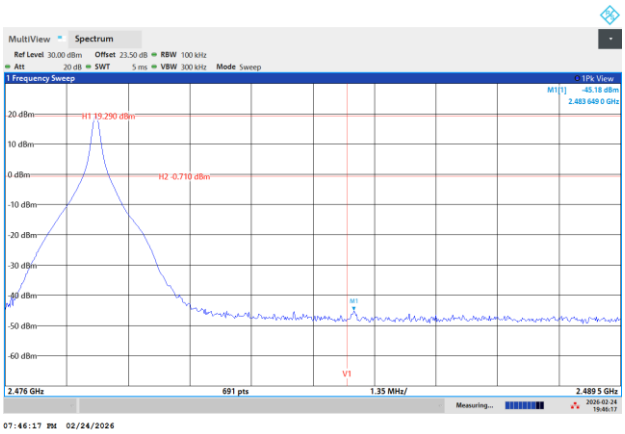
Band Edge Plot on Channel 02	Band Edge Plot on Channel 76
	

Hopping Mode Band Edges

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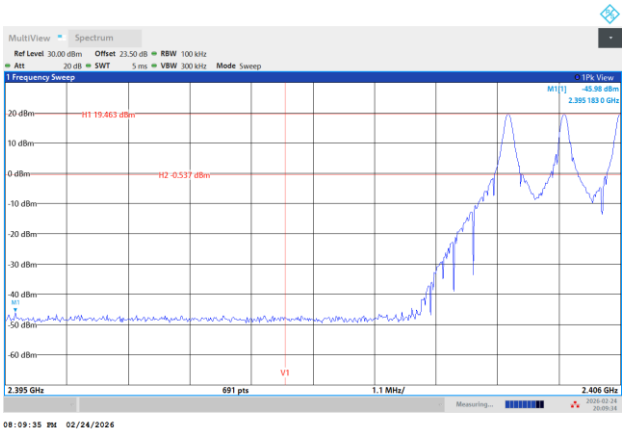
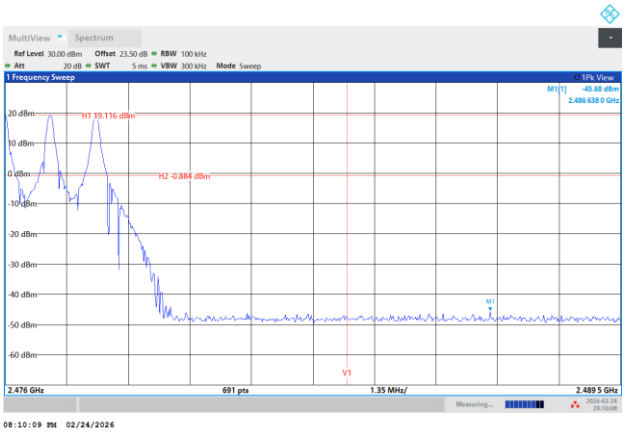
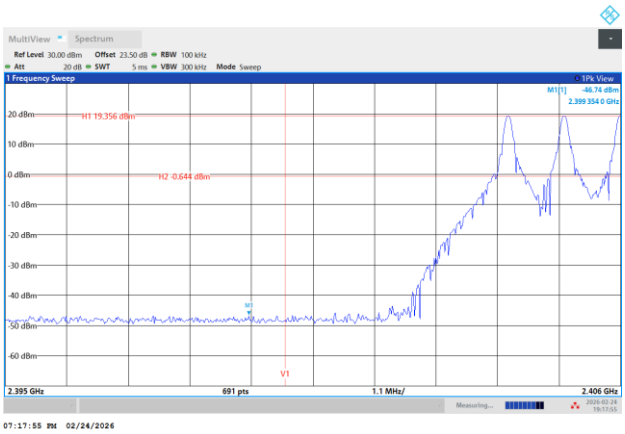
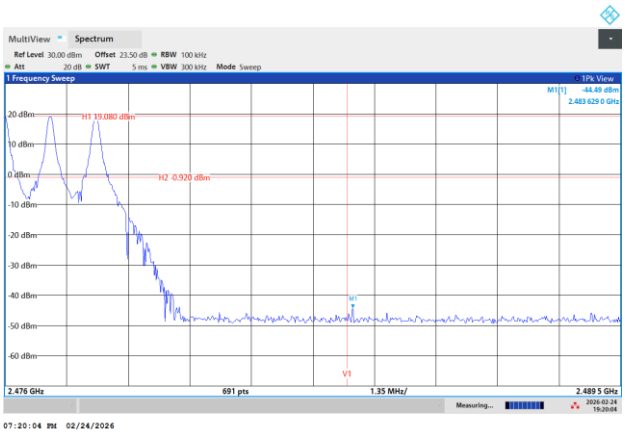
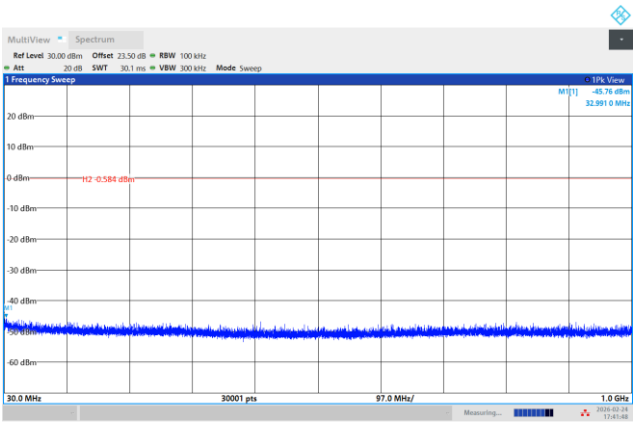
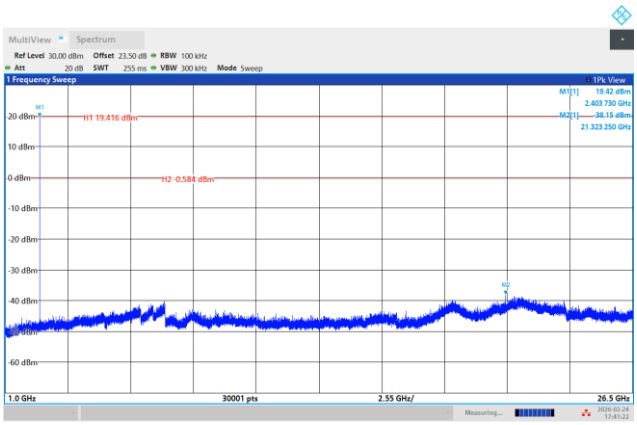
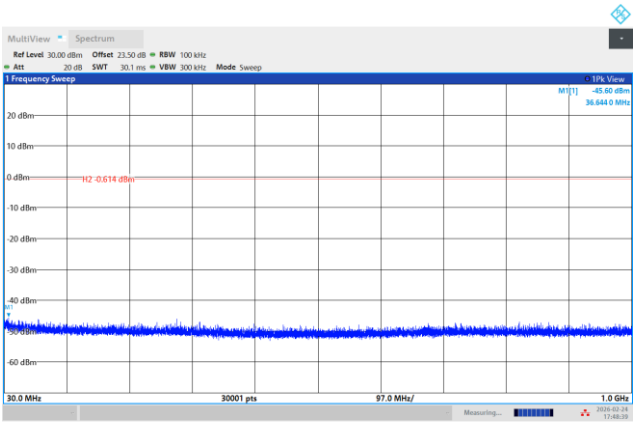
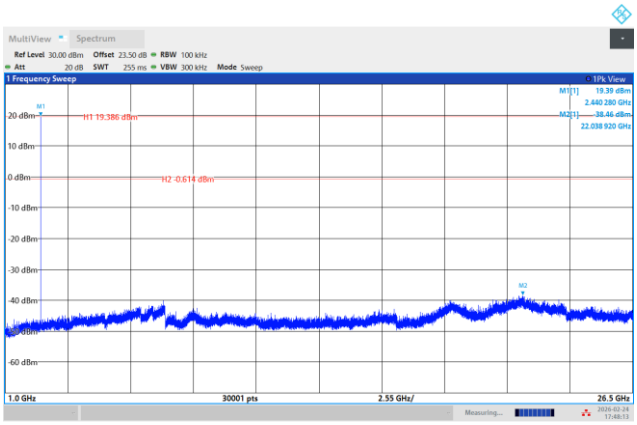
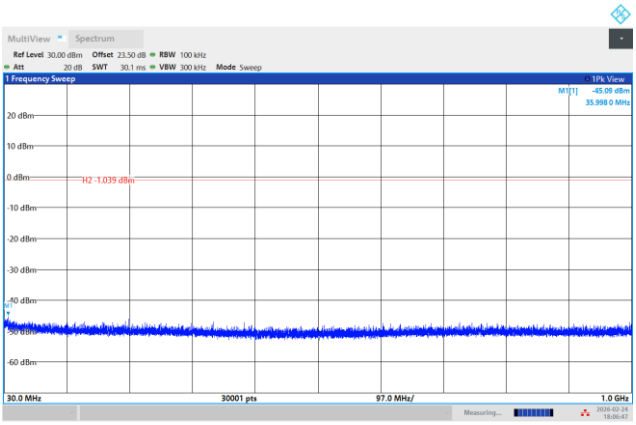
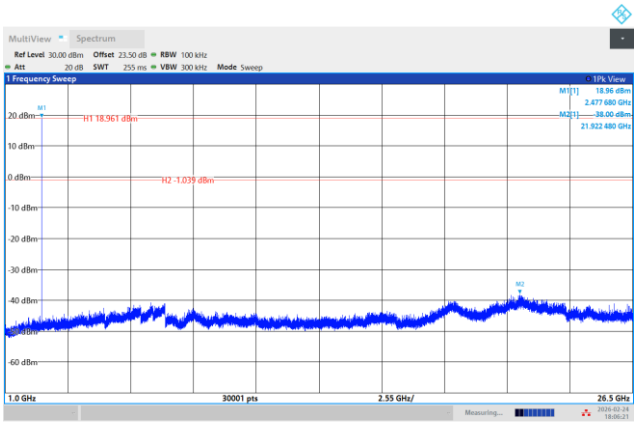
Hopping Mode Band Edge Plot on Channel 02	Hopping Mode Band Edge Plot on Channel 76
	

<2Mbps>

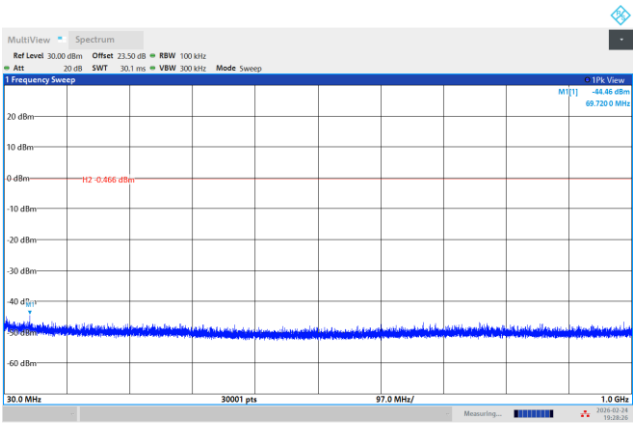
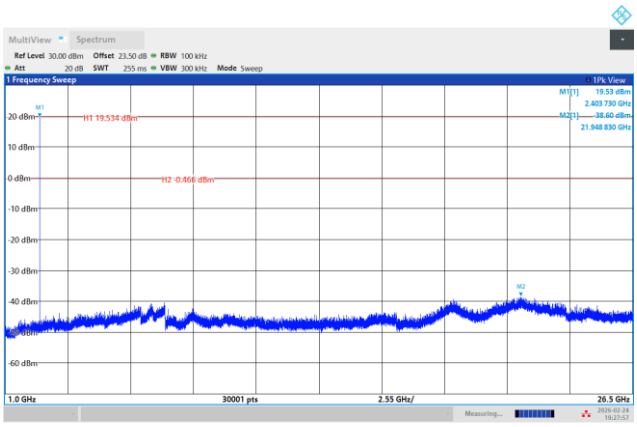
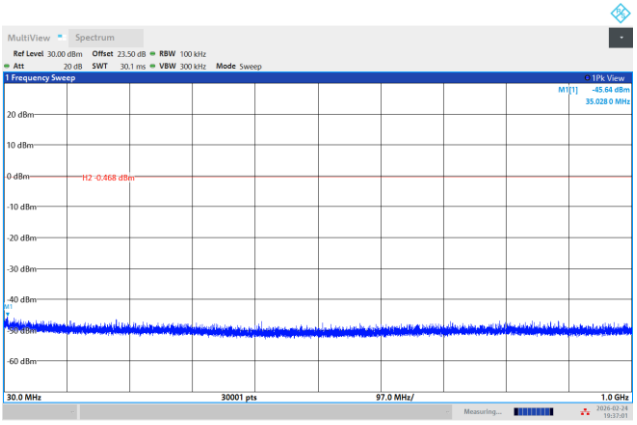
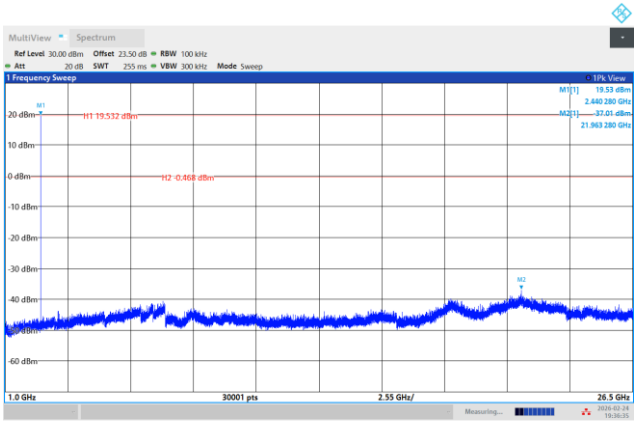
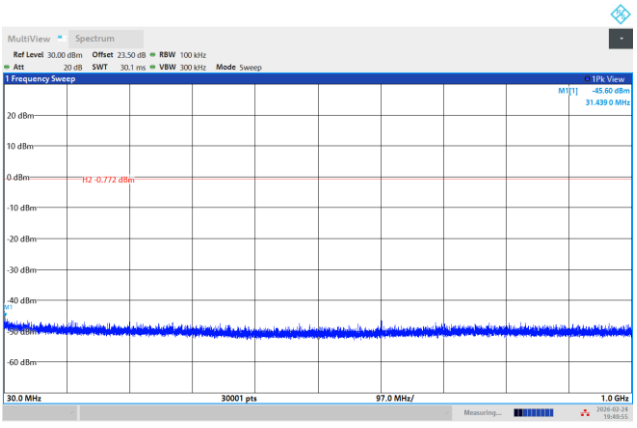
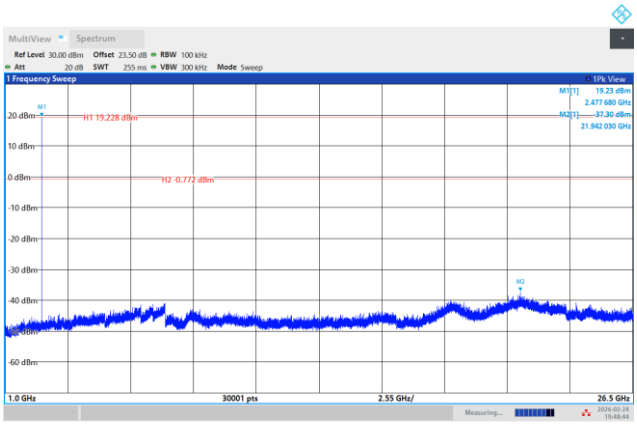
Hopping Mode Band Edge Plot on Channel 02	Hopping Mode Band Edge Plot on Channel 76
	

Conducted Spurious Emission

<1Mbps>

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**
	

<2Mbps>

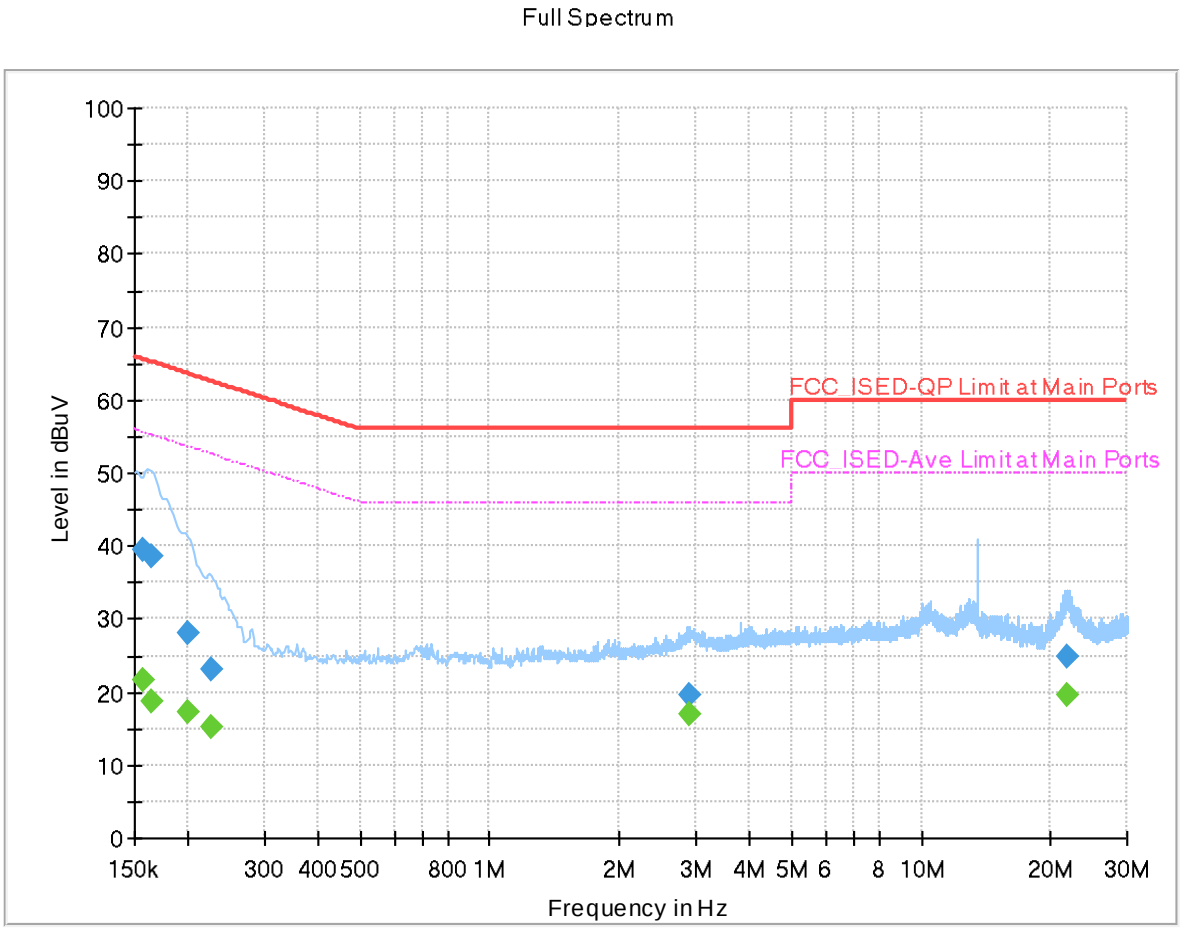
CSE Plot on Low Ch between 30MHz ~ 1 GHz	CSE Plot on Low Ch between 1GHz ~ 26.5GHz
	
CSE Plot on Mid. Ch between 30MHz ~ 1 GHz	**CSE Plot on Mid. Ch between 1GHz ~ 26.5GHz**
	
CSE Plot on High Ch between 30MHz ~ 1 GHz	**CSE Plot on High Ch between 1GHz ~ 26.5GHz**
	

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Brian Chen	**Temperature :**	17.2~23.6℃
		Relative Humidity :	46.7~49.9%

EUT Information

Report NO :	5O3008
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

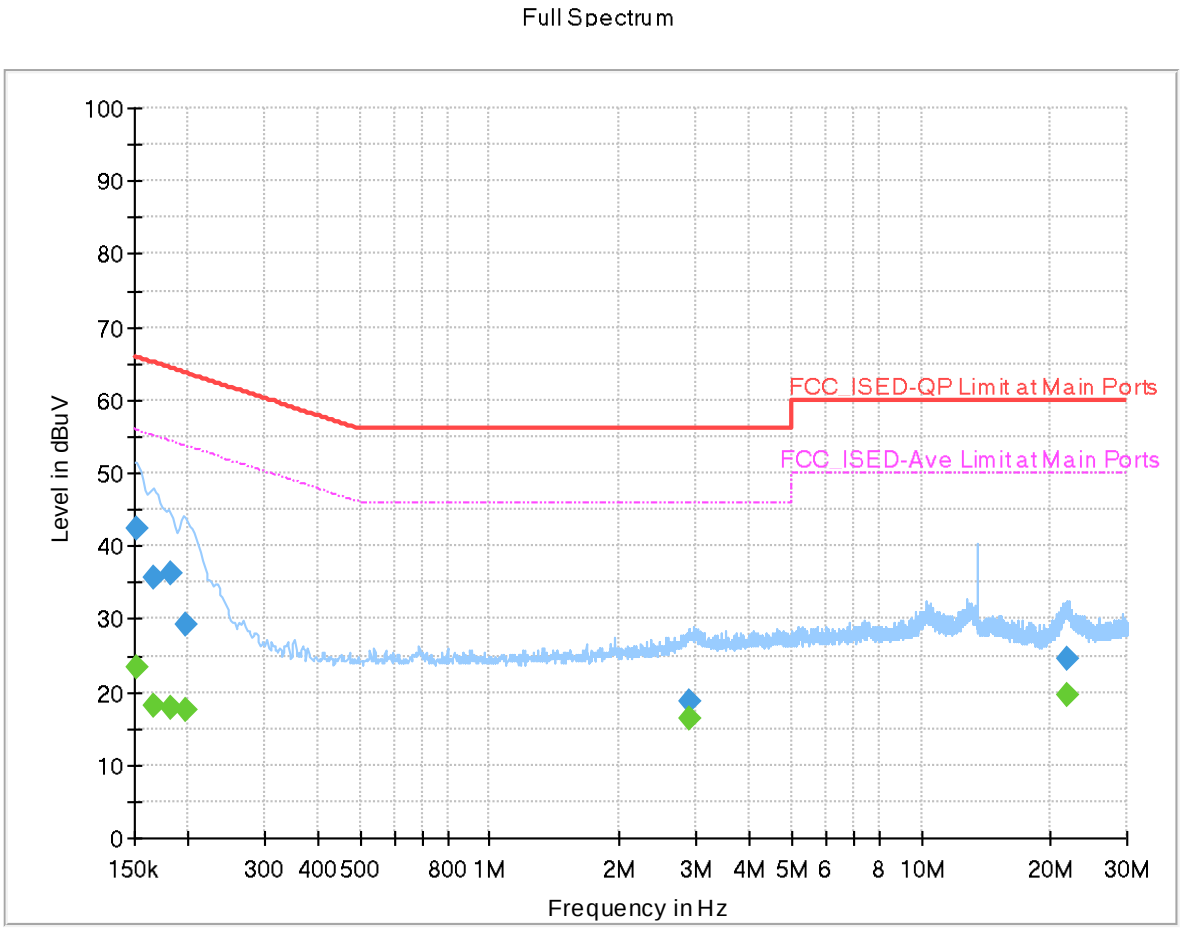


Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156278	---	21.63	55.66	34.03	L1	ON	20.0
0.156278	39.53	---	65.66	26.13	L1	ON	20.0
0.163500	---	18.76	55.28	36.52	L1	ON	20.0
0.163500	38.71	---	65.28	26.57	L1	ON	20.0
0.199500	---	17.11	53.63	36.52	L1	ON	20.0
0.199500	28.11	---	63.63	35.52	L1	ON	20.0
0.226500	---	15.21	52.58	37.37	L1	ON	20.0
0.226500	23.13	---	62.58	39.45	L1	ON	20.0
2.901750	---	16.97	46.00	29.03	L1	ON	20.1
2.901750	19.47	---	56.00	36.53	L1	ON	20.1
21.750000	---	19.60	50.00	30.40	L1	ON	20.9
21.750000	24.88	---	60.00	35.12	L1	ON	20.9

EUT Information

Report NO :	5O3008
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	23.35	55.88	32.53	N	ON	20.0
0.152250	42.51	---	65.88	23.37	N	ON	20.0
0.165750	---	18.16	55.17	37.01	N	ON	20.0
0.165750	35.53	---	65.17	29.64	N	ON	20.0
0.181500	---	17.90	54.42	36.52	N	ON	20.0
0.181500	36.39	---	64.42	28.03	N	ON	20.0
0.197250	---	17.52	53.73	36.21	N	ON	20.0
0.197250	29.19	---	63.73	34.54	N	ON	20.0
2.915250	---	16.46	46.00	29.54	N	ON	20.1
2.915250	18.80	---	56.00	37.20	N	ON	20.1
21.768000	---	19.69	50.00	30.31	N	ON	20.9
21.768000	24.69	---	60.00	35.31	N	ON	20.9

Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Jack Cheng and Ray Lung	**Temperature :**	21.1 ~ 25.7°C
		Relative Humidity :	55.8 ~ 63.2%

Note symbol

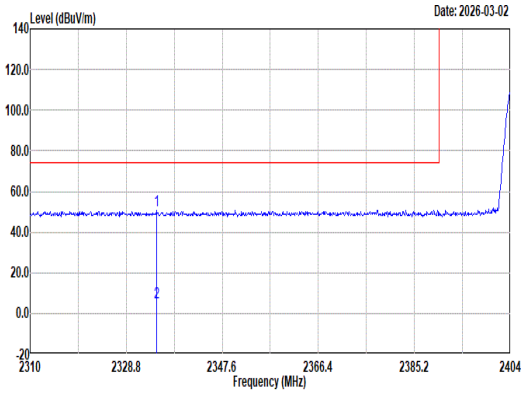
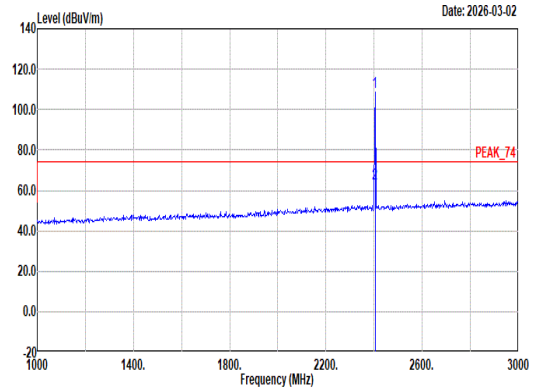
-L	**Low channel location**
-R	**High channel location**

C1. Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	Remark
Mode 1	2400-2483.5	0	Bluetooth-LE_ASK	02	2404	1Mbps	-
Mode 2	2400-2483.5	0	Bluetooth-LE_ASK	38	2440	1Mbps	-
Mode 3	2400-2483.5	0	Bluetooth-LE_ASK	76	2478	1Mbps	-
Mode 4	2400-2483.5	0	Bluetooth-LE_ASK	02	2404	2Mbps	-
Mode 5	2400-2483.5	0	Bluetooth-LE_ASK	38	2440	2Mbps	-
Mode 6	2400-2483.5	0	Bluetooth-LE_ASK	76	2478	2Mbps	-
Mode 7	2400-2483.5	0	Bluetooth-LE_ASK	SHF (Above 18GHz)			
Mode 8	2400-2483.5	0	Bluetooth-LE_ASK	LF (Below 1GHz)			

C2. Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Bluetooth-LE_ASK	02	2387.46	51.09	74.00	-22.91	V	Peak	Pass	Band Edge
	Bluetooth-LE_ASK	02	4808.00	46.91	74.00	-27.09	V	Peak	Pass	Harmonic
2	Bluetooth-LE_ASK	38	2497.60	51.56	74.00	-22.44	H	Peak	Pass	Band Edge
	Bluetooth-LE_ASK	38	7320.00	49.81	74.00	-24.19	V	Peak	Pass	Harmonic
3	Bluetooth-LE_ASK	76	2485.85	51.38	74.00	-22.62	V	Peak	Pass	Band Edge
	Bluetooth-LE_ASK	76	7434.00	49.39	74.00	-24.61	H	Peak	Pass	Harmonic
4	Bluetooth-LE_ASK	02	2366.68	52.19	74.00	-21.81	V	Peak	Pass	Band Edge
	Bluetooth-LE_ASK	02	4808.00	45.74	74.00	-28.26	H	Peak	Pass	Harmonic
5	Bluetooth-LE_ASK	38	2492.38	50.85	74.00	-23.15	H	Peak	Pass	Band Edge
	Bluetooth-LE_ASK	38	7320.00	49.41	74.00	-24.59	V	Peak	Pass	Harmonic
6	Bluetooth-LE_ASK	76	2483.92	51.47	74.00	-22.53	H	Peak	Pass	Band Edge
	Bluetooth-LE_ASK	76	7434.00	48.65	74.00	-25.35	V	Peak	Pass	Harmonic
7	SHF		24759.88	41.08	74.00	-32.92	H	Peak	Pass	-
8	LF		38.73	30.38	40.00	-9.62	H	Peak	Pass	-

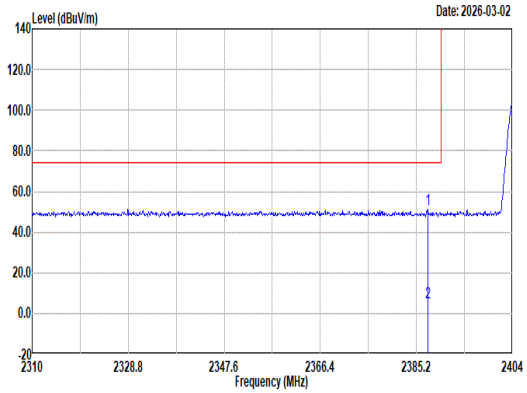
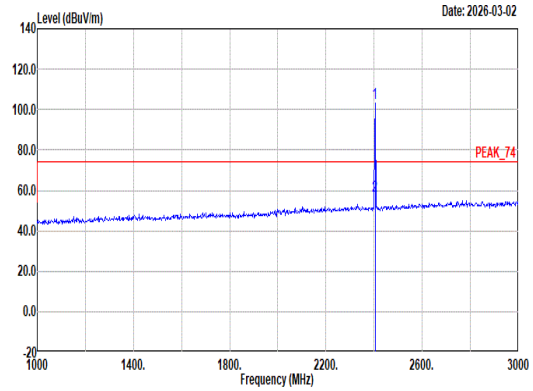
Mode	1	
	Band Edge	
	2400-2483.5_Bluetooth-LE_ASK _CH02_2404MHz	
ANT	0	
Pol.	Horizontal	Fundamental
Peak		

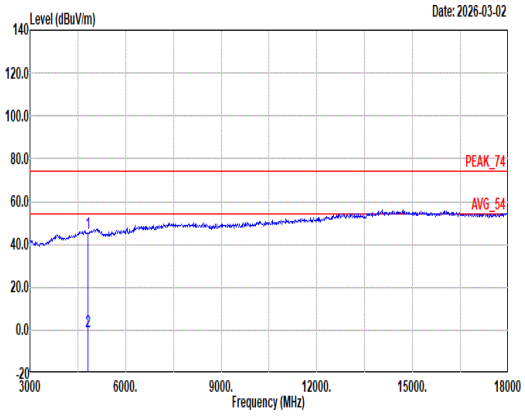
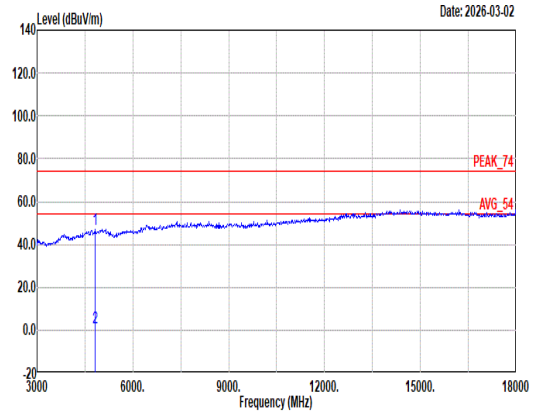
Site : 03CH21-HY
Condition: PEAK_BE_74 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Detector : PEAK
Mode : 1
Setting : 7F

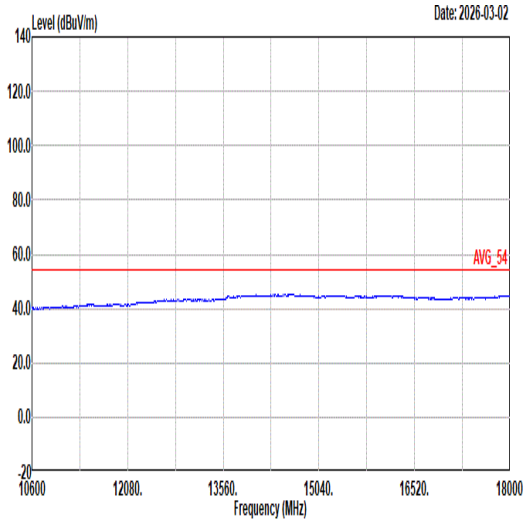
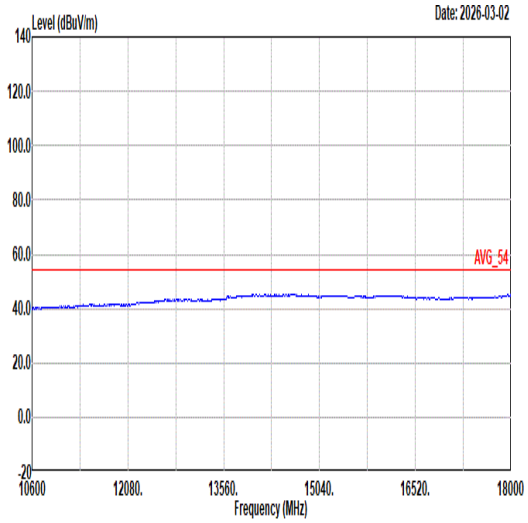
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2334.72	50.77	74.00	-23.23	37.92	26.85	8.40	32.79	10.39	116	306	Peak
2	2334.72	5.12	54.00	-48.88	--	--	--	--	--	--	--	AVERAGE

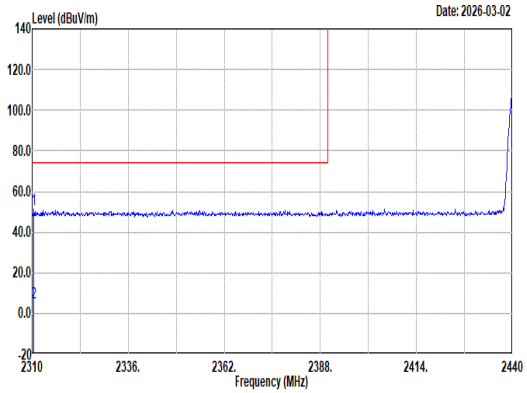
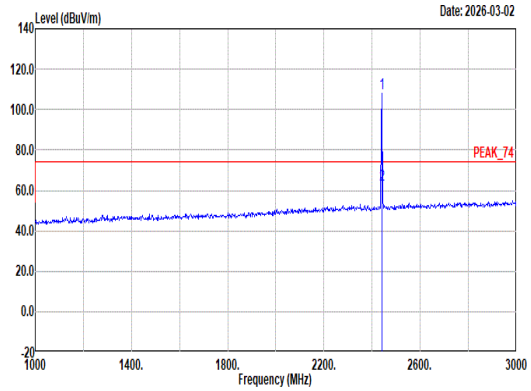
Site : 03CH21-HY
Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Detector : PEAK
Mode : 1
Setting : 7F

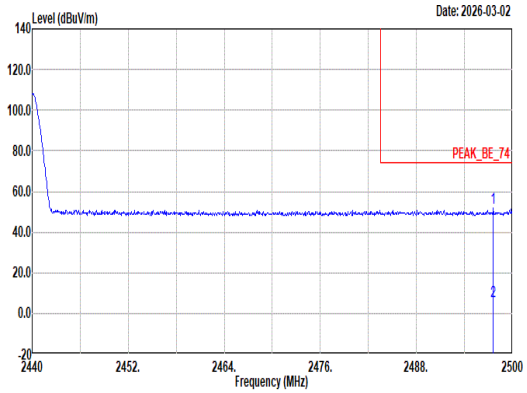
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2404.00	108.74	------	------	95.90	26.74	8.54	32.84	10.40	116	306	Peak
2	2404.00	63.09	------	------	--	--	--	--	--	--	--	Average

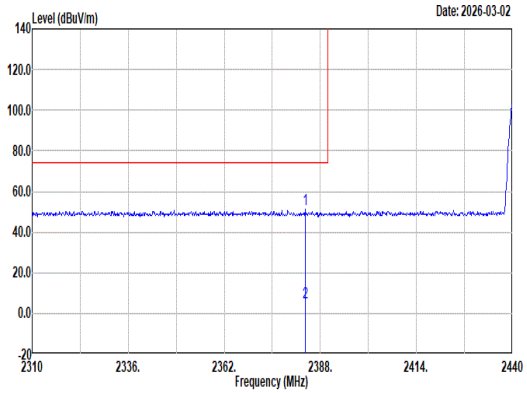
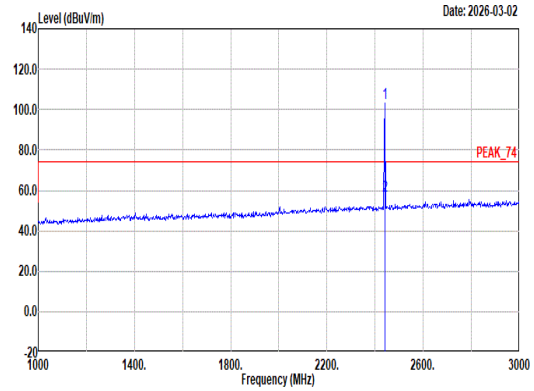
Mode	1	
	Band Edge	
	2400-2483.5_Bluetooth-LE_ASK _CH02_2404MHz	
ANT	0	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C03A18EN_250807 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : PEAK Mode : 1 Setting : 7F Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2387.46 51.09 74.00 -22.91 38.39 26.63 8.50 32.83 10.40 330 0 Peak 2 2387.46 5.44 54.00 -48.56 -- -- -- -- -- -- -- AVERAGE	 Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250807 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : PEAK Mode : 1 Setting : 7F Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2404.00 103.17 ------ ------ 90.33 26.74 8.54 32.84 10.40 330 0 Peak 2 2404.00 57.52 ------ ------ -- -- -- -- -- -- -- Average

Mode	1	
	Harmonic	
	2400-2483.5_Bluetooth-LE_ASK _CH02_2404MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL Mode : 1 Setting : 7F 1 4808.00 45.19 74.00 -28.81 32.52 32.22 12.13 34.11 2.43 -- -- Peak 2 4808.00 -0.46 54.00 -54.46 -- -- -- -- -- -- -- Average	 Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250807 VERTICAL Mode : 1 Setting : 7F 1 4808.00 46.91 74.00 -27.09 34.24 32.22 12.13 34.11 2.43 -- -- Peak 2 4808.00 1.26 54.00 -52.74 -- -- -- -- -- -- -- Average

Mode	1	
	Harmonic	
	2400-2483.5_Bluetooth-LE_ASK _CH02_2404MHz	
ANT	0	
Pol.	Horizontal	Vertical
10.6G ~18G Avg	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL Mode : 1 Setting : 7F	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_250807 VERTICAL Mode : 1 Setting : 7F

Mode	2	
	Band Edge - L	
	2400-2483.5_Bluetooth-LE_ASK _CH38_2440MHz	
ANT	0	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : PEAK Mode : 2 Setting : 7F Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2310.52 51.21 74.00 -22.79 38.34 26.91 8.35 32.78 10.39 114 306 Peak 2 2310.52 5.56 54.00 -48.44 -- -- -- -- -- -- -- AVERAGE	 Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : PEAK Mode : 2 Setting : 7F Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 108.23 ------ ------ 95.49 26.60 8.60 32.86 10.40 114 306 Peak 2 2440.00 62.58 ------ ------ -- -- -- -- -- -- -- Average

Mode	2	
	Band Edge - R	
	2400-2483.5_Bluetooth-LE_ASK _CH38_2440MHz	
ANT	0	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : PEAK Mode : 2 Setting : 7F Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2497.60 51.56 74.00 -22.44 38.54 26.80 8.71 32.90 10.41 114 306 Peak 2 2497.60 5.91 54.00 -48.09 -- -- -- -- -- -- -- AVERAGE	Blank

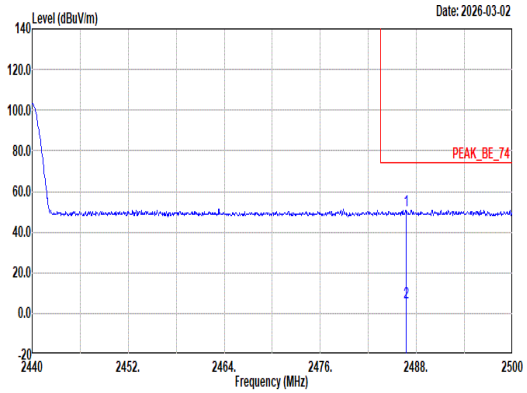
Mode	2	
	Band Edge - L	
	2400-2483.5_Bluetooth-LE_ASK _CH38_2440MHz	
ANT	0	
Pol.	Vertical	Fundamental
Peak		

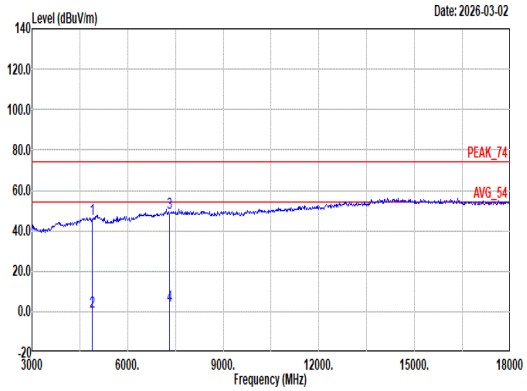
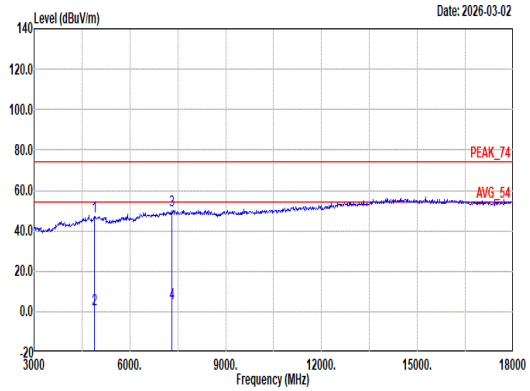
Site : 03CH21-HY
Condition: PEAK_BE_74 3m DRH18-E_LE2C03A18EN_250807 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Detector : PEAK
Mode : 2
Setting : 7F

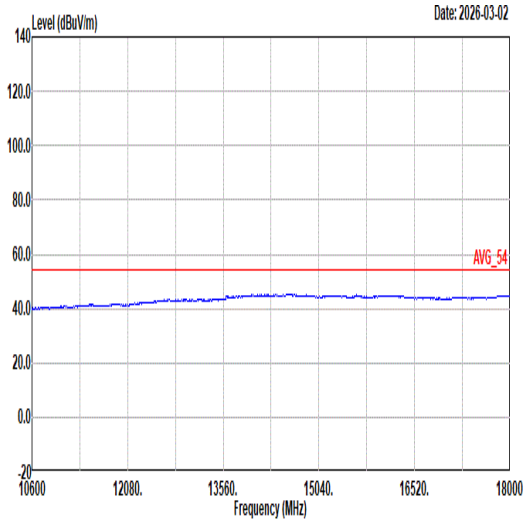
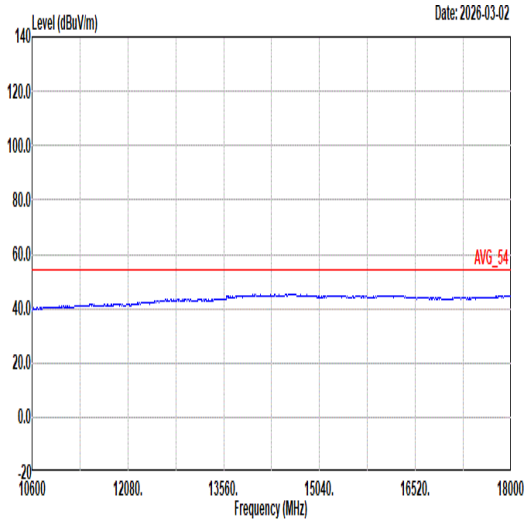
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2383.97	50.96	74.00	-23.04	38.23	26.66	8.50	32.83	10.40	155	176	Peak
2	2383.97	5.31	54.00	-48.69	--	--	--	--	--	--	--	AVERAGE

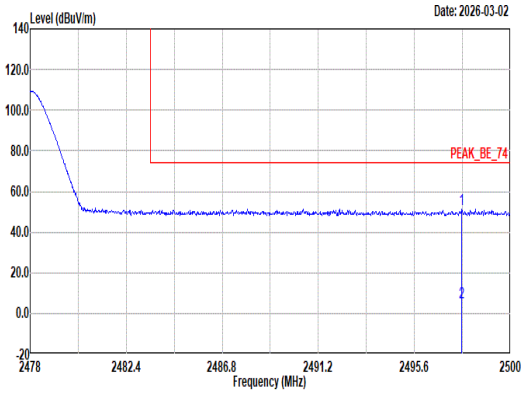
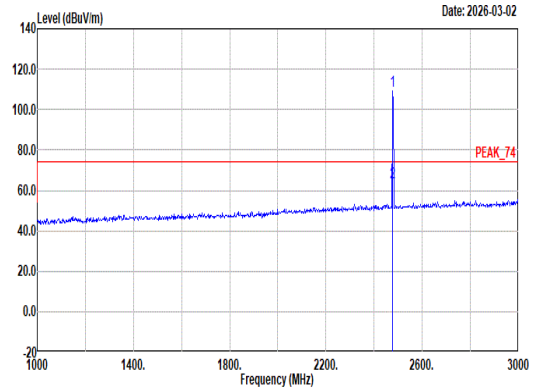
Site : 03CH21-HY
Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250807 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Detector : PEAK
Mode : 2
Setting : 7F

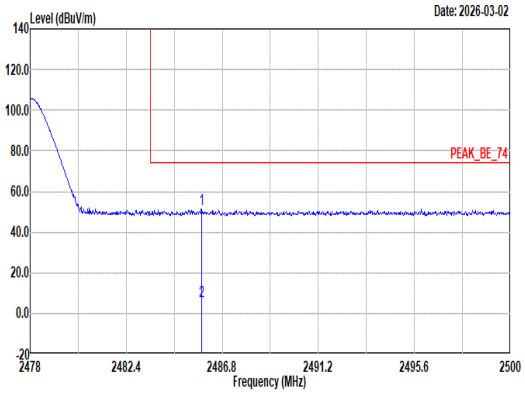
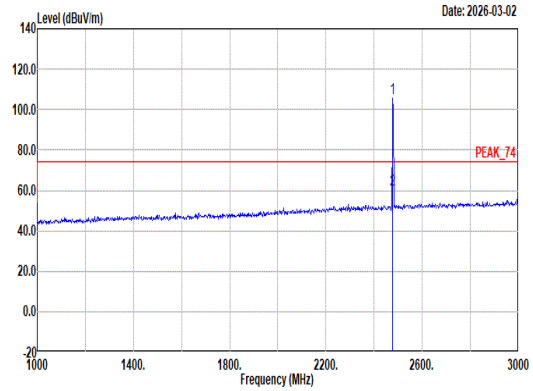
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2440.00	103.10	------	------	90.36	26.60	8.60	32.86	10.40	155	176	Peak
2	2440.00	57.45	------	------	--	--	--	--	--	--	--	Average

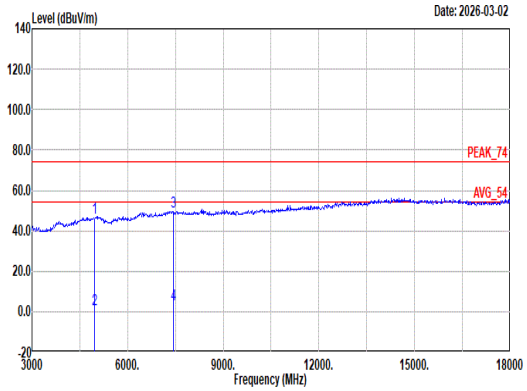
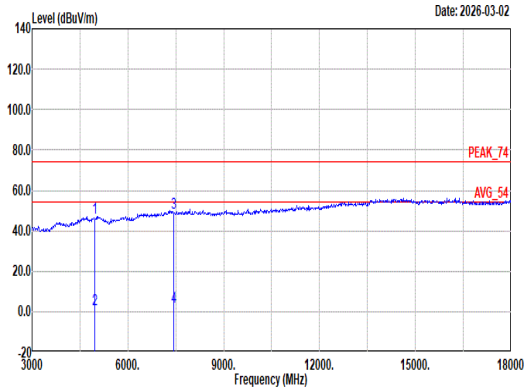
Mode	2	
	Band Edge - R	
	2400-2483.5_Bluetooth-LE_ASK _CH38_2440MHz	
ANT	0	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C03A18EN_250807 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : PEAK Mode : 2 Setting : 7F Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2486.68 50.81 74.00 -23.19 37.87 26.73 8.69 32.89 10.41 155 176 Peak 2 2486.68 5.16 54.00 -48.84 -- -- -- -- -- -- -- AVERAGE	Blank

Mode	2	
	Harmonic	
	2400-2483.5_Bluetooth-LE_ASK _CH38_2440MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL Mode : 2 Setting : 7F 1 4880.00 45.87 74.00 -28.13 32.97 32.36 12.26 34.09 2.37 -- -- Peak 2 4880.00 0.22 54.00 -53.78 -- -- -- -- -- -- -- Average 3 7320.00 48.79 74.00 -25.21 31.99 36.72 15.06 36.38 1.40 -- -- Peak 4 7320.00 3.14 54.00 -50.86 -- -- -- -- -- -- -- Average	 Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250807 VERTICAL Mode : 2 Setting : 7F 1 4880.00 46.74 74.00 -27.26 33.84 32.36 12.26 34.09 2.37 -- -- Peak 2 4880.00 1.09 54.00 -52.91 -- -- -- -- -- -- -- Average 3 7320.00 49.81 74.00 -24.19 33.01 36.72 15.06 36.38 1.40 -- -- Peak 4 7320.00 4.16 54.00 -49.84 -- -- -- -- -- -- -- Average

Mode	2	
	Harmonic	
	2400-2483.5_Bluetooth-LE_ASK _CH38_2440MHz	
ANT	0	
Pol.	Horizontal	Vertical
10.6G ~18G Avg	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL Mode : 2 Setting : 7F	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_250807 VERTICAL Mode : 2 Setting : 7F

Mode	3	
	Band Edge	
	2400-2483.5_Bluetooth-LE_ASK _CH76_2478MHz	
ANT	0	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : PEAK Mode : 3 Setting : 7F 1 2497.78 51.18 74.00 -22.82 38.16 26.80 8.71 32.90 10.41 112 308 Peak 2 2497.78 5.53 54.00 -48.47 -- -- -- -- -- -- -- AVERAGE	 Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : PEAK Mode : 3 Setting : 7F 1 2478.00 109.36 ------ ------ 96.57 26.60 8.67 32.89 10.41 112 308 Peak 2 2478.00 63.71 ------ ------ -- -- -- -- -- -- -- Average

Mode	3	
	Band Edge	
	2400-2483.5_Bluetooth-LE_ASK _CH76_2478MHz	
ANT	0	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C03A18EN_250807 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : PEAK Mode : 3 Setting : 7F Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2485.85 51.38 74.00 -22.62 38.45 26.72 8.69 32.89 10.41 132 168 Peak 2 2485.85 5.73 54.00 -48.27 -- -- -- -- -- -- -- AVERAGE	 Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250807 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : PEAK Mode : 3 Setting : 7F Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2478.00 105.69 ------ ------ 92.90 26.60 8.67 32.89 10.41 132 168 Peak 2 2478.00 60.04 ------ ------ -- -- -- -- -- -- -- Average

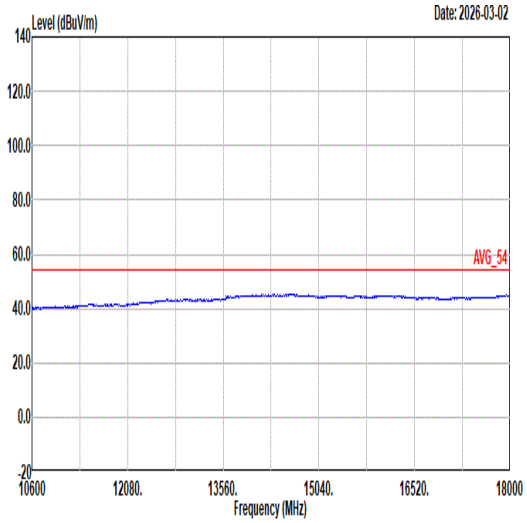
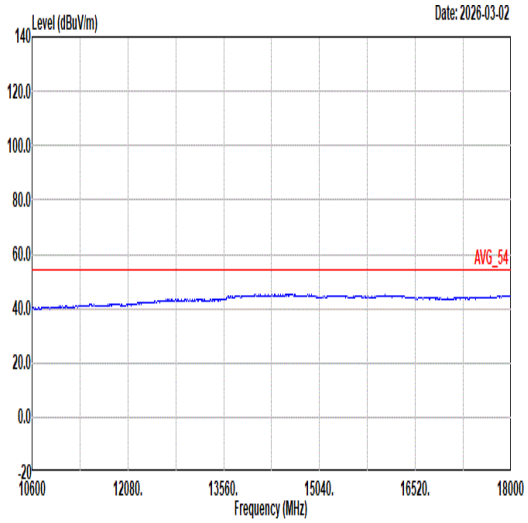
Mode	3	
	Harmonic	
	2400-2483.5_Bluetooth-LE_ASK _CH76_2478MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL Mode : 3 Setting : 7F	 Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250807 VERTICAL Mode : 3 Setting : 7F

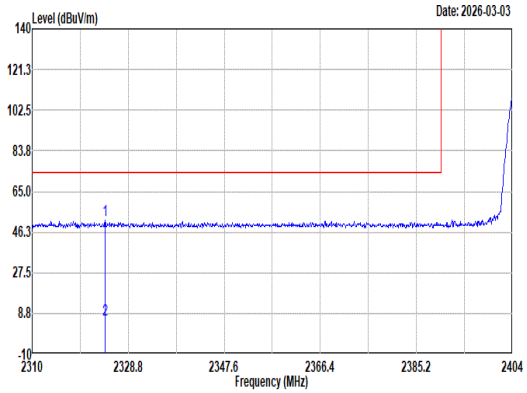
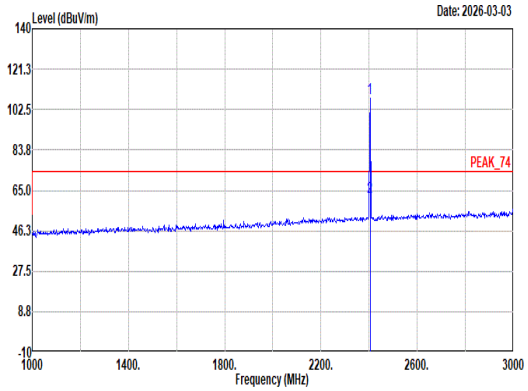
Horizontal:

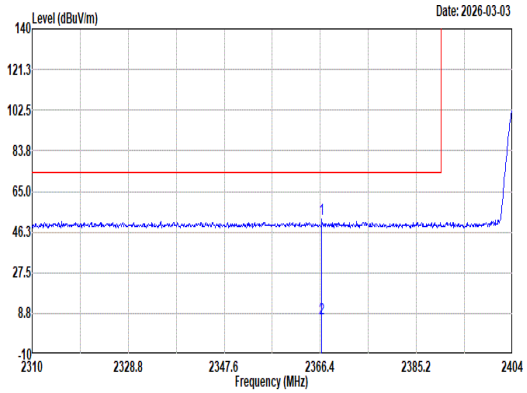
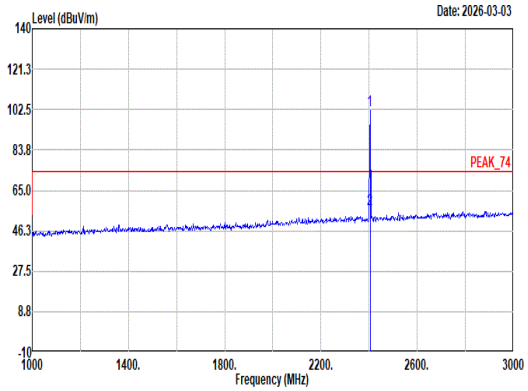
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	4956.00	46.70	74.00	-27.30	33.44	32.62	12.40	34.07	2.31	--	--	Peak
2	4956.00	1.05	54.00	-52.95	--	--	--	--	--	--	--	Average
3	7434.00	49.39	74.00	-24.61	32.32	36.83	15.19	36.42	1.47	--	--	Peak
4	7434.00	3.74	54.00	-50.26	--	--	--	--	--	--	--	Average

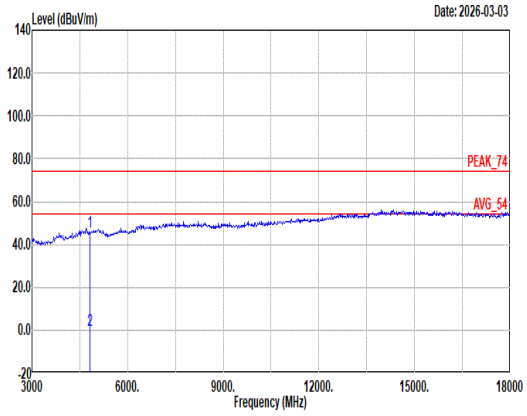
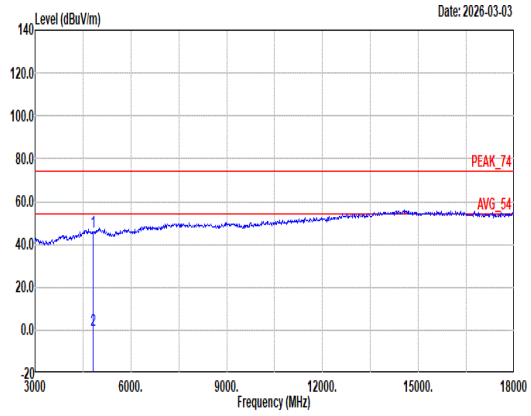
Vertical:

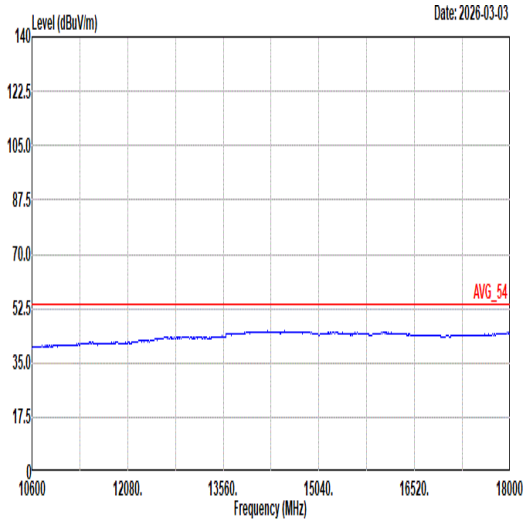
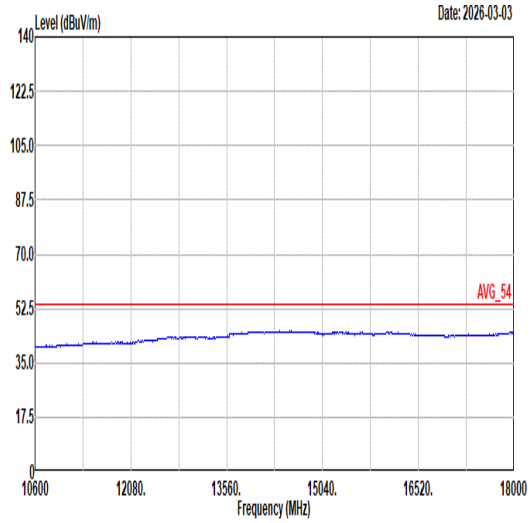
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	4956.00	46.65	74.00	-27.35	33.39	32.62	12.40	34.07	2.31	--	--	Peak
2	4956.00	1.00	54.00	-53.00	--	--	--	--	--	--	--	Average
3	7434.00	49.07	74.00	-24.93	32.00	36.83	15.19	36.42	1.47	--	--	Peak
4	7434.00	2.42	54.00	-51.58	--	--	--	--	--	--	--	Average

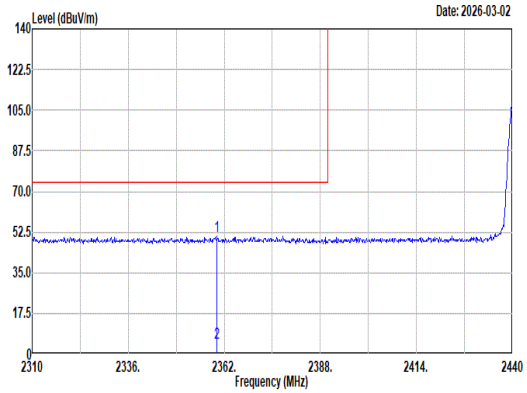
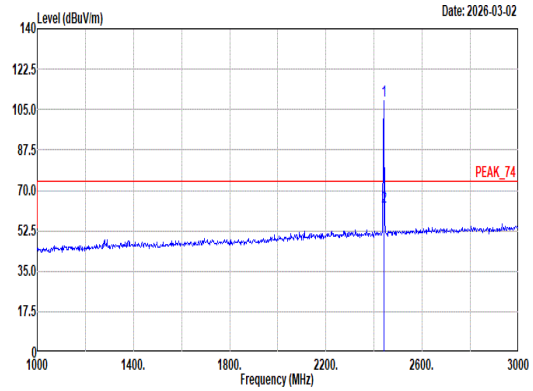
Mode	3	
	Harmonic	
	2400-2483.5_Bluetooth-LE_ASK _CH76_2478MHz	
ANT	0	
Pol.	Horizontal	Vertical
10.6G ~18G Avg	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL Mode : 3 Setting : 7F	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_250807 VERTICAL Mode : 3 Setting : 7F

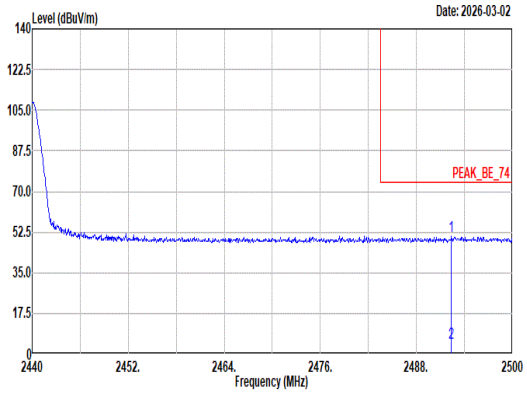
Mode	4	
	Band Edge	
	2400-2483.5_Bluetooth-LE_ASK _CH02_2404MHz	
ANT	0	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : PEAK Mode : 4 Setting : 7F Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2324.29 51.68 74.00 -22.32 38.74 26.96 8.38 32.79 10.39 120 312 Peak 2 2324.29 5.83 54.00 -48.17 -- -- -- -- -- -- -- AVERAGE	 Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : PEAK Mode : 4 Setting : 7F Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2404.00 107.96 ------ ------ 95.12 26.74 8.54 32.84 10.40 120 312 Peak 2 2404.00 62.11 ------ ------ -- -- -- -- -- -- -- Average

Mode	4	
	Band Edge	
	2400-2483.5_Bluetooth-LE_ASK _CH02_2404MHz	
ANT	0	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C03A18EN_250807 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : PEAK Mode : 4 Setting : 7F Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2366.68 52.19 74.00 -21.81 39.24 26.90 8.46 32.81 10.40 100 102 Peak 2 2366.68 6.34 54.00 -47.66 -- -- -- -- -- -- -- AVERAGE	 Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250807 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : PEAK Mode : 4 Setting : 7F Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2404.00 102.01 ------ ------ 89.17 26.74 8.54 32.84 10.40 100 102 Peak 2 2404.00 56.16 ------ ------ -- -- -- -- -- -- -- Average

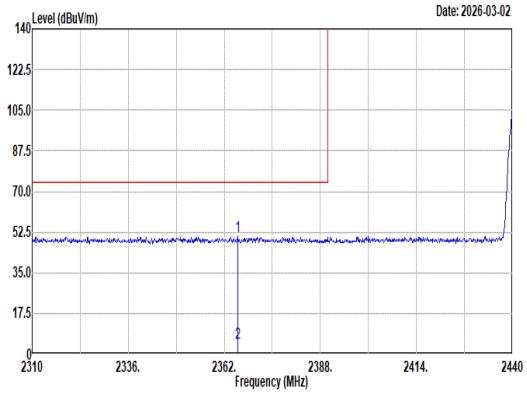
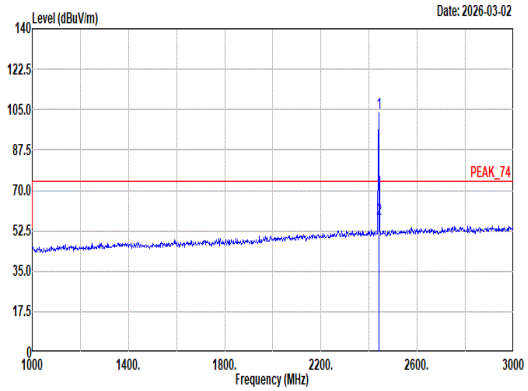
Mode	4	
	Harmonic	
	2400-2483.5_Bluetooth-LE_ASK _CH02_2404MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL Mode : 4 Setting : 7F 1 4808.00 45.74 74.00 -28.26 33.07 32.22 12.13 34.11 2.43 -- -- Peak 2 4808.00 -0.11 54.00 -54.11 -- -- -- -- -- -- -- Average	 Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250807 VERTICAL Mode : 4 Setting : 7F 1 4808.00 45.61 74.00 -28.39 32.94 32.22 12.13 34.11 2.43 -- -- Peak 2 4808.00 -0.24 54.00 -54.24 -- -- -- -- -- -- -- Average

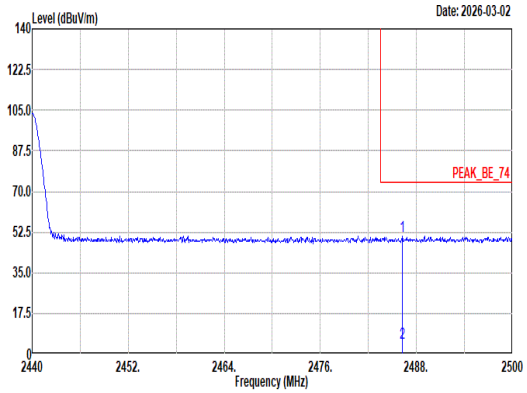
Mode	4	
	Harmonic	
	2400-2483.5_Bluetooth-LE_ASK _CH02_2404MHz	
ANT	0	
Pol.	Horizontal	Vertical
10.6G ~18G Avg	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL Mode : 4 Setting : 7F	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_250807 VERTICAL Mode : 4 Setting : 7F

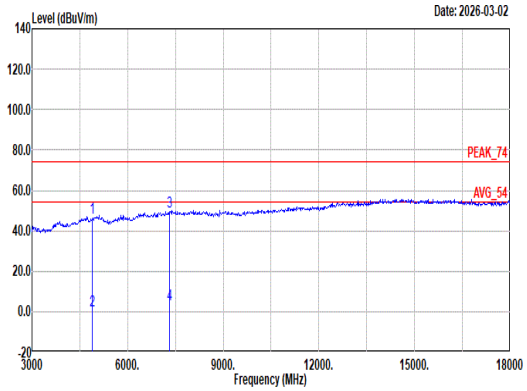
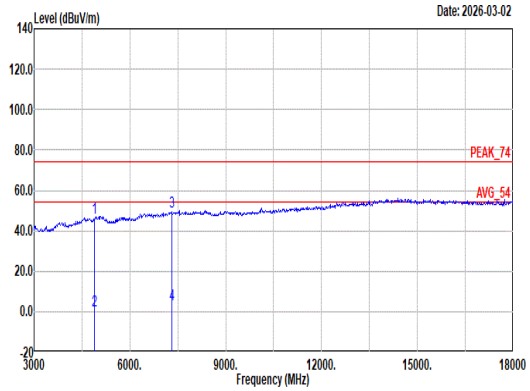
Mode	5	
	Band Edge - L	
	2400-2483.5_Bluetooth-LE_ASK _CH38_2440MHz	
ANT	0	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : PEAK Mode : 5 Setting : 7F Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2360.05 50.47 74.00 -23.53 37.53 26.90 8.45 32.81 10.40 113 306 Peak 2 2360.05 4.62 54.00 -49.38 -- -- -- -- -- -- -- AVERAGE	 Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : PEAK Mode : 5 Setting : 7F Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 108.59 ------ ------ 95.85 26.60 8.60 32.86 10.40 113 306 Peak 2 2440.00 62.74 ------ ------ -- -- -- -- -- -- -- Average

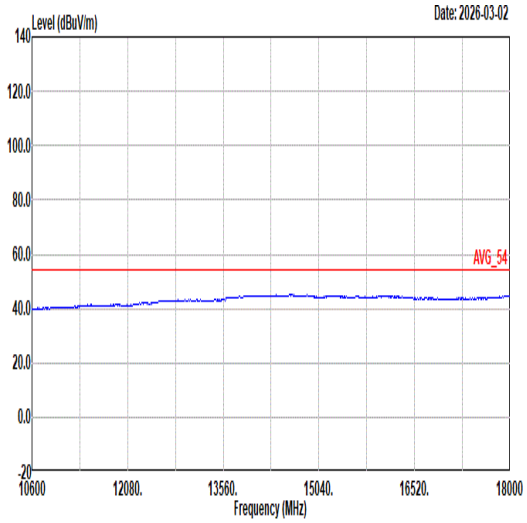
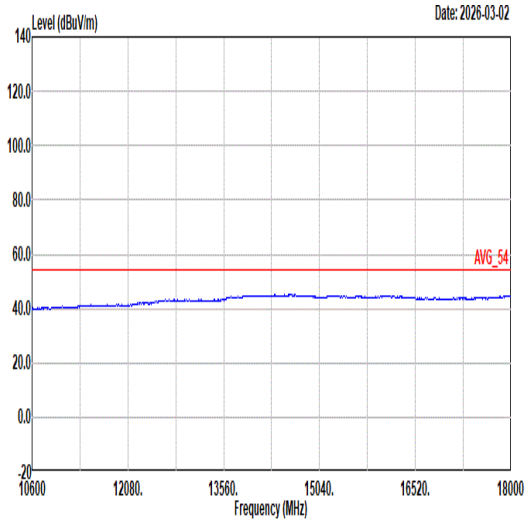
Mode	5	
	Band Edge - R	
	2400-2483.5_Bluetooth-LE_ASK _CH38_2440MHz	
ANT	0	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : PEAK Mode : 5 Setting : 7F	Blank

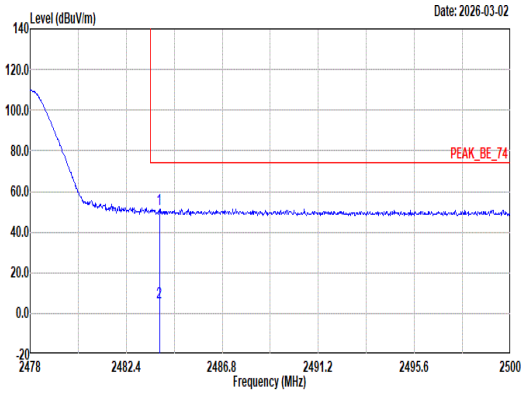
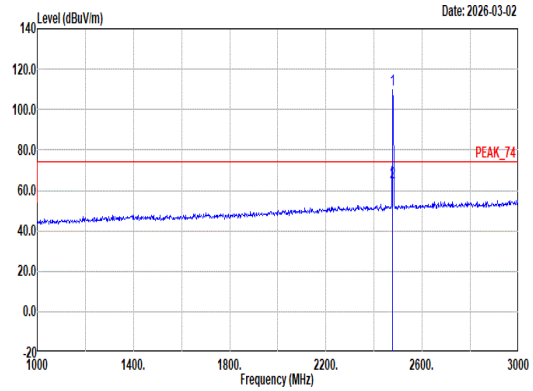
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2492.38	50.85	74.00	-23.15	37.84	26.80	8.70	32.90	10.41	113	306	Peak
2	2492.38	5.00	54.00	-49.00	--	--	--	--	--	--	--	AVERAGE

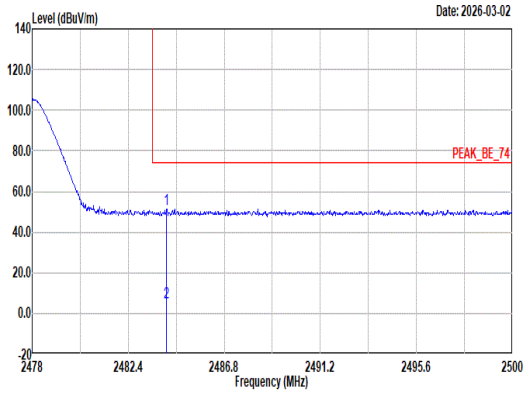
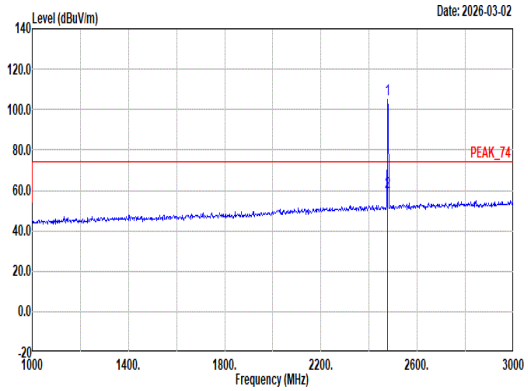
Mode	5	
	Band Edge - L	
	2400-2483.5_Bluetooth-LE_ASK _CH38_2440MHz	
ANT	0	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C03A18EN_250807 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : PEAK Mode : 5 Setting : 7F Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2365.64 50.80 74.00 -23.20 37.85 26.90 8.46 32.81 10.40 100 161 Peak 2 2365.64 4.95 54.00 -49.05 -- -- -- -- -- -- -- AVERAGE	 Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250807 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : PEAK Mode : 5 Setting : 7F Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2440.00 103.55 ------ ------ 90.81 26.60 8.60 32.86 10.40 100 161 Peak 2 2440.00 57.70 ------ ------ -- -- -- -- -- -- -- Average

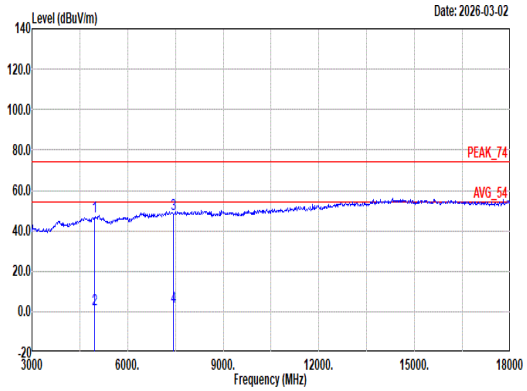
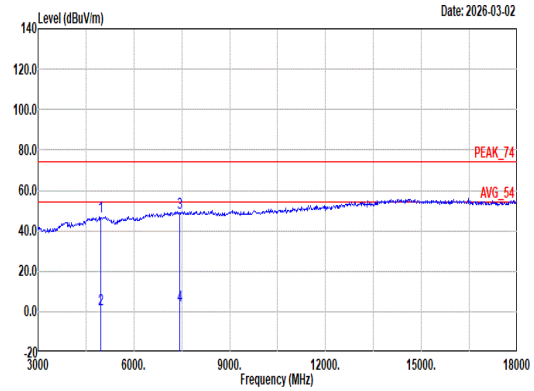
Mode	5	
	Band Edge - R	
	2400-2483.5_Bluetooth-LE_ASK _CH38_2440MHz	
ANT	0	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C03A18EN_250807 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : PEAK Mode : 5 Setting : 7F Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2486.26 50.65 74.00 -23.35 37.71 26.73 8.69 32.89 10.41 100 161 Peak 2 2486.26 4.80 54.00 -49.20 -- -- -- -- -- -- -- AVERAGE	Blank

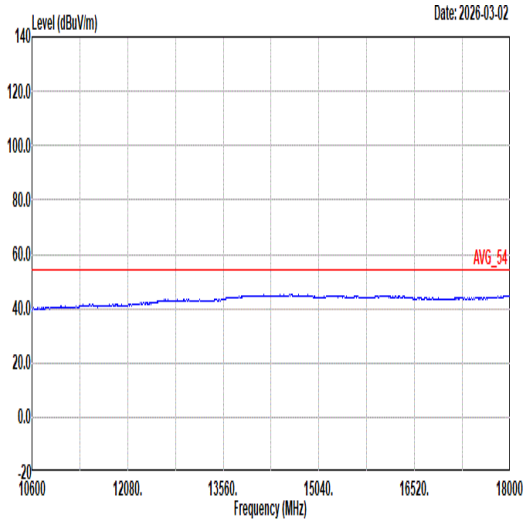
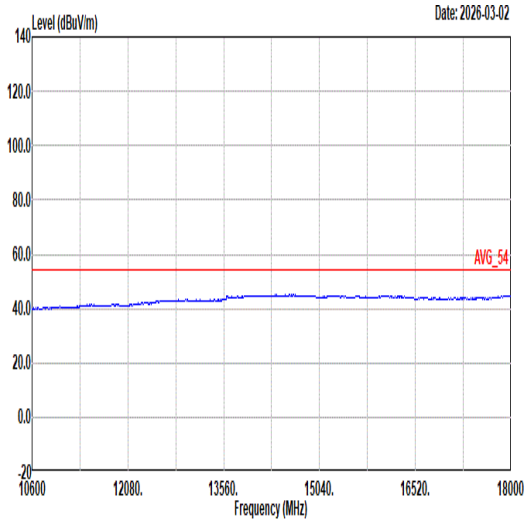
Mode	5	
	Harmonic	
	2400-2483.5_Bluetooth-LE_ASK _CH38_2440MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL Mode : 5 Setting : 7F 1 4880.00 46.18 74.00 -27.82 33.28 32.36 12.26 34.09 2.37 -- -- Peak 2 4880.00 0.33 54.00 -53.67 -- -- -- -- -- -- -- Average 3 7320.00 49.28 74.00 -24.72 32.48 36.72 15.06 36.38 1.40 -- -- Peak 4 7320.00 3.43 54.00 -50.57 -- -- -- -- -- -- -- Average	 Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250807 VERTICAL Mode : 5 Setting : 7F 1 4880.00 46.26 74.00 -27.74 33.36 32.36 12.26 34.09 2.37 -- -- Peak 2 4880.00 0.41 54.00 -53.59 -- -- -- -- -- -- -- Average 3 7320.00 49.41 74.00 -24.59 32.61 36.72 15.06 36.38 1.40 -- -- Peak 4 7320.00 3.56 54.00 -50.44 -- -- -- -- -- -- -- Average

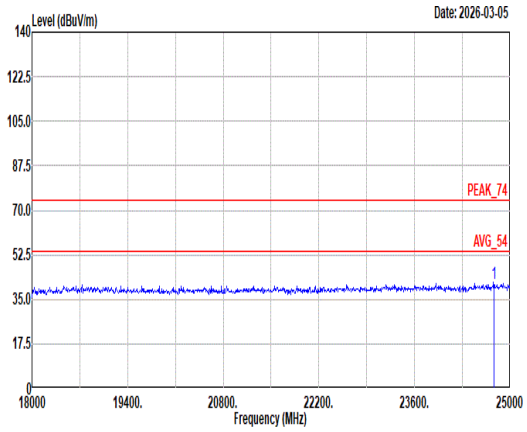
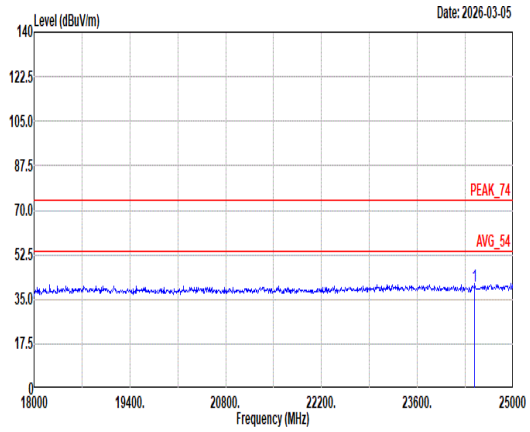
Mode	5	
	Harmonic	
	2400-2483.5_Bluetooth-LE_ASK _CH38_2440MHz	
ANT	0	
Pol.	Horizontal	Vertical
10.6G ~18G Avg	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL Mode : 5 Setting : 7F	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_250807 VERTICAL Mode : 5 Setting : 7F

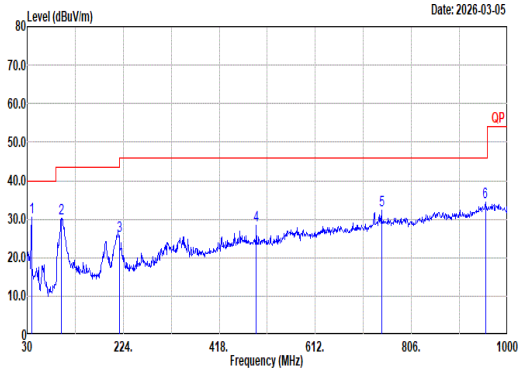
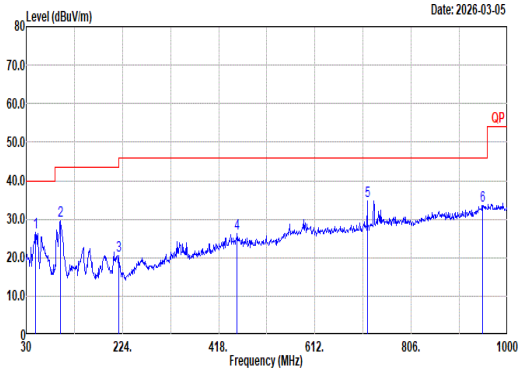
Mode	6	
	Band Edge	
	2400-2483.5_Bluetooth-LE_ASK _CH76_2478MHz	
ANT	0	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : PEAK Mode : 6 Setting : 7F Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.92 51.47 74.00 -22.53 38.58 26.68 8.69 32.89 10.41 112 307 Peak 2 2483.92 5.62 54.00 -48.38 -- -- -- -- -- -- -- AVERAGE	 Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : PEAK Mode : 6 Setting : 7F Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2478.00 109.71 ------ ------ 96.92 26.60 8.67 32.89 10.41 112 307 Peak 2 2478.00 63.86 ------ ------ -- -- -- -- -- -- -- Average

Mode	6	
	Band Edge	
	2400-2483.5_Bluetooth-LE_ASK _CH76_2478MHz	
ANT	0	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH21-HY Condition: PEAK_BE_74 3m DRH18-E_LE2C03A18EN_250807 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : PEAK Mode : 6 Setting : 7F 1 2484.16 51.32 74.00 -22.68 38.43 26.68 8.69 32.89 10.41 100 184 Peak 2 2484.16 5.47 54.00 -48.53 -- -- -- -- -- -- -- AVERAGE	 Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250807 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : PEAK Mode : 6 Setting : 7F 1 2478.00 105.19 ------ ------ 92.40 26.60 8.67 32.89 10.41 100 184 Peak 2 2478.00 59.34 ------ ------ -- -- -- -- -- -- -- Average

Mode	6	
	Harmonic	
	2400-2483.5_Bluetooth-LE_ASK _CH76_2478MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL Mode : 6 Setting : 7F 1 4956.00 46.84 74.00 -27.16 33.58 32.62 12.40 34.07 2.31 -- -- Peak 2 4956.00 0.99 54.00 -53.01 -- -- -- -- -- -- -- Average 3 7434.00 48.41 74.00 -25.59 31.34 36.83 15.19 36.42 1.47 -- -- Peak 4 7434.00 2.56 54.00 -51.44 -- -- -- -- -- -- -- Average	 Site : 03CH21-HY Condition: PEAK_74 3m DRH18-E_LE2C03A18EN_250807 VERTICAL Mode : 6 Setting : 7F 1 4956.00 46.95 74.00 -27.05 33.69 32.62 12.40 34.07 2.31 -- -- Peak 2 4956.00 1.10 54.00 -52.90 -- -- -- -- -- -- -- Average 3 7434.00 48.65 74.00 -25.35 31.58 36.83 15.19 36.42 1.47 -- -- Peak 4 7434.00 2.80 54.00 -51.20 -- -- -- -- -- -- -- Average

Mode	6	
	Harmonic	
	2400-2483.5_Bluetooth-LE_ASK _CH76_2478MHz	
ANT	0	
Pol.	Horizontal	Vertical
10.6G ~18G Avg	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_250807 HORIZONTAL Mode : 6 Setting : 7F	 Site : 03CH21-HY Condition: AVG_54 3m DRH18-E_LE2C03A18EN_250807 VERTICAL Mode : 6 Setting : 7F

Mode	7	
	SHF	
ANT	0	
Pol.	Horizontal	Vertical
Peak	 Site : 03CH21-HY Condition: PEAK_74 1m BBHA9170_1223_250702 HORIZONTAL Mode : 7 Setting : Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 24759.88 41.08 74.00 -32.92 42.55 39.52 28.71 60.16 -9.54 -- -- PEAK	 Site : 03CH21-HY Condition: PEAK_74 1m BBHA9170_1223_250702 VERTICAL Mode : 7 Setting : Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 24438.56 40.29 74.00 -33.71 41.99 39.32 28.53 60.01 -9.54 -- -- PEAK

Mode	8	
	LF	
ANT	0	
Pol.	Horizontal	Vertical
QP/ Peak	 Site : 03CH21-HY Condition: QP 3m LF_63303&001_251126 HORIZONTAL Mode : 8 Setting :	 Site : 03CH21-HY Condition: QP 3m LF_63303&001_251126 VERTICAL Mode : 8 Setting :

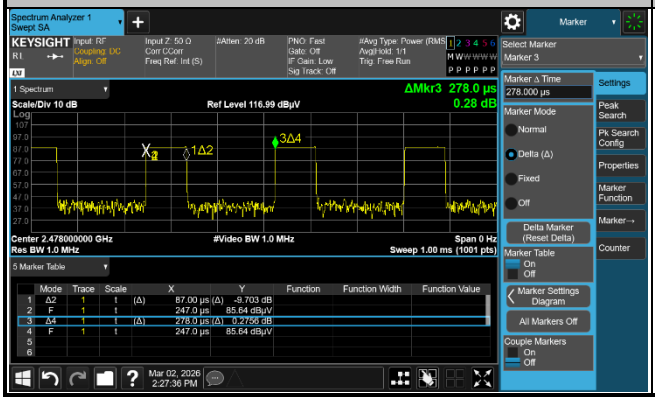
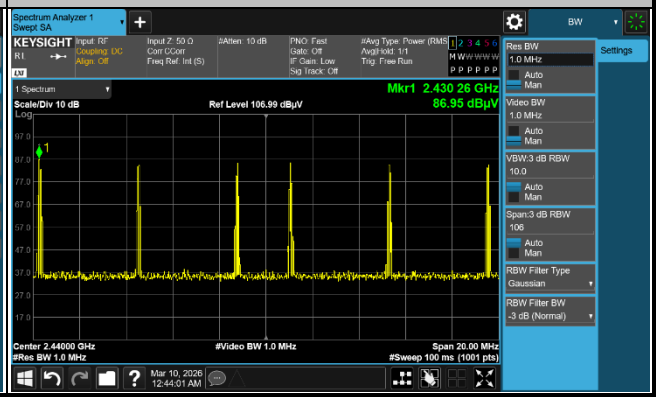
Horizontal:

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	38.73	30.38	40.00	-9.62	41.55	20.27	1.03	32.49	0.02	--	--	Peak
2	98.87	30.17	43.50	-13.33	44.78	16.05	1.75	32.46	0.05	--	--	Peak
3	216.24	25.78	46.00	-20.22	40.68	14.93	2.57	32.46	0.06	--	--	Peak
4	492.69	28.37	46.00	-17.63	33.08	23.93	3.89	32.64	0.11	--	--	Peak
5	745.86	32.36	46.00	-13.64	31.75	28.25	4.78	32.56	0.14	--	--	Peak
6	955.38	34.55	46.00	-11.45	28.94	31.16	5.41	31.17	0.21	--	--	Peak

Vertical:

	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	49.40	26.71	40.00	-13.29	43.20	14.76	1.19	32.47	0.03	--	--	Peak
2	98.87	29.48	43.50	-14.02	44.09	16.05	1.75	32.46	0.05	--	--	Peak
3	217.21	20.60	46.00	-25.40	35.46	14.97	2.57	32.46	0.06	--	--	Peak
4	454.86	26.12	46.00	-19.88	31.71	23.21	3.74	32.62	0.08	--	--	Peak
5	717.73	34.81	46.00	-11.19	35.55	27.08	4.70	32.65	0.13	--	--	Peak
6	950.53	33.55	46.00	-12.45	28.07	31.11	5.39	31.22	0.20	--	--	Peak

Appendix D. Duty Cycle Plots

Bluetooth - LE for 1Mbps	Bluetooth - LE for 1Mbps
	

Note:

1. Worst case Duty cycle = on time/100 milliseconds = 6 * 0.087 / 100 = 0.52%
2. Worst case Duty cycle correction factor = 20*log(Duty cycle) = -45.65 dB

Duty Cycle Correction Factor Consideration for AFH mode:

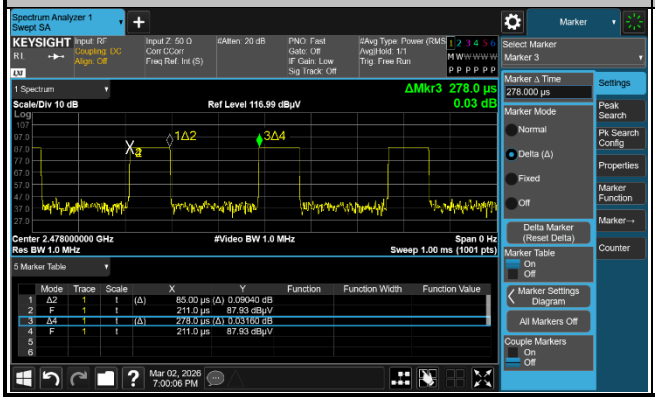
The maximum possible ON time:

0.087 ms x 6 =0.522 ms

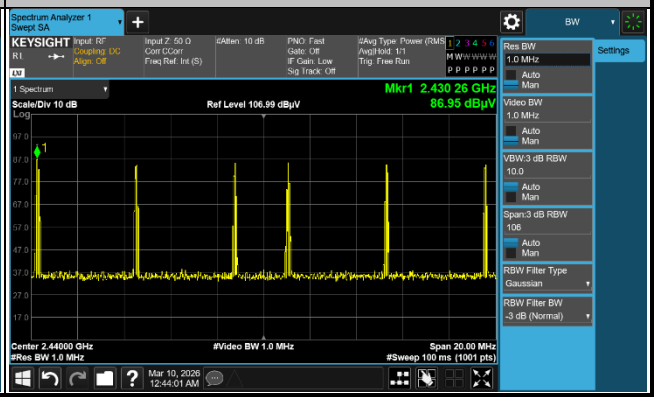
Worst case Duty Cycle Correction factor, which is derived from the maximum possible ON time,

20 x log(0.522 ms/100 ms) = -45.65 dB

Bluetooth - LE for 2Mbps



Bluetooth - LE for 2Mbps



Note:

1. Worst case Duty cycle = on time/100 milliseconds = 6 * 0.085 / 100 = 0.51%
2. Worst case Duty cycle correction factor = 20*log(Duty cycle) = -45.85 dB

Duty Cycle Correction Factor Consideration for AFH mode:

The maximum possible ON time:

0.085 ms x 6 =0.5152 ms

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

20 x log(0.51 ms/100 ms) = -45.8568 dB

Appendix E. Spot Check Evaluation on G1XJ6

Conducted power test and radiated spurious emission test configurations were selected from the worst cases identified in the reference model and tested to demonstrate the test data from reference 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	A4RG0F3Y Reference Worst Result	A4RG1XJ6 Variant Check Result	Difference (dB)
Conducted Power (dBm)	BT	20.62	20.60	0.10
	BLE	19.50	19.40	0.06
	BLE ASK	20.61	20.55	0.10
	BLE GFSK	19.40	19.30	0.30
	WiFi 2.4GHz	20.70	20.40	0.10
	WiFi 5GHz	17.80	17.70	0.02
	UWB	-2.84	-2.86	0.04
	60GHz	-0.83	-0.87	0.48
Radiated Band Edges and Spurious Emission (dBuV/m)	BT	-24.09	-24.57	1.03
	BLE	-11.32	-10.29	1.11
	BLE ASK	-21.81	-22.92	1.23
	BLE GFSK	-7.33	-8.56	1.31
	WiFi 2.4GHz	-2.78	-4.09	0.74
	WiFi 5GHz	-1.57	-2.31	0.01
	UWB	-0.12	-0.11	0.30
	60GHz	-6.71	-6.41	0.10

Reference detail Section

Rule Part	Equipment Class	Wireless Technology	Rule Part	Reference FCC ID (Parent)	Type Grant/ Permissive Change	Reference Exhibit	Full report referenced	FCC ID Filling (Variant)
15C	DSS	BT BR	§15.247	A4RG0F3Y	Original Grant	G0F3Y_FCC Part 15C BT	Y	A4RG1XJ6
	DTS	BLE	§15.247	A4RG0F3Y	Original Grant	G0F3Y_FCC Part 15C BLE	Y	A4RG1XJ6
	DSS	BLE ASK	§15.247	A4RG0F3Y	Original Grant	G0F3Y_FCC Part 15C BLE ASK	Y	A4RG1XJ6
	DTS	BLE GFSK	§15.247	A4RG0F3Y	Original Grant	G0F3Y_FCC Part 15C BLE GFSK	Y	A4RG1XJ6
	DTS	WiFi	§15.247	A4RG0F3Y	Original Grant	G0F3Y_FCC Part 15C WLAN2.4G	Y	A4RG1XJ6
	DXX	60GHz	§15.255	A4RG0F3Y	Original Grant	G0F3Y_FCC Part 15C 60HJz	Y	A4RG1XJ6
15E	NII	WiFi	§15.407	A4RG0F3Y	Original Grant	G0F3Y_FCC Part 15E WLAN UNII-1-4	Y	A4RG1XJ6
15F	UWB	UWB	§15.519	A4RG0F3Y	Original Grant	G0F3Y_FCC Part 15F UWB	Y	A4RG1XJ6

List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
LOOP Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec. 11, 2025	Mar. 04, 2026~ Mar. 10, 2026	Dec. 10, 2026	Radiation (03CH21-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63303 & 001	30MHz~1GHz	Nov. 26, 2025	Mar. 04, 2026~ Mar. 10, 2026	Nov. 25, 2026	Radiation (03CH21-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C03A18EN	1GHz~18GHz	Aug. 07, 2025	Mar. 04, 2026~ Mar. 10, 2026	Aug. 06, 2026	Radiation (03CH21-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1223	18GHz~40GHz	Jul. 02, 2025	Mar. 04, 2026~ Mar. 10, 2026	Jul. 01, 2026	Radiation (03CH21-HY)
Amplifier	SONOMA	310N	421580	30MHz~1GHz	Jul. 13, 2025	Mar. 04, 2026~ Mar. 10, 2026	Jul. 12, 2026	Radiation (03CH21-HY)
Amplifier	EMEC	EM01G18GA	060876	1GHz~18GHz	Sep. 26, 2025	Mar. 04, 2026~ Mar. 10, 2026	Sep. 25, 2026	Radiation (03CH21-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Aug. 26, 2025	Mar. 04, 2026~ Mar. 10, 2026	Aug. 25, 2026	Radiation (03CH21-HY)
EXA Signal Analyzer	Keysight	N9010B	MY62170358	10Hz~44GHz	Sep. 09, 2025	Mar. 04, 2026~ Mar. 10, 2026	Sep. 08, 2026	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 05, 2025	Mar. 04, 2026~ Mar. 03, 2026	Mar. 04, 2026	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 04, 2026	Mar. 04, 2026~ Mar. 10, 2026	Mar. 03, 2027	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804397/2,804612/2,803954/2	30MHz~40GHz	Aug. 11, 2025	Mar. 04, 2026~ Mar. 10, 2026	Aug. 10, 2026	Radiation (03CH21-HY)
RF Cable	EMCI	EMC101Y-KM-KM-1000	240906	30MHz~40GHz	Oct. 21, 2025	Mar. 04, 2026~ Mar. 10, 2026	Oct. 20, 2026	Radiation (03CH21-HY)
Hygrometer	TECPEL	DTM-303A	TP211568	N/A	Oct. 21, 2025	Mar. 04, 2026~ Mar. 10, 2026	Oct. 20, 2026	Radiation (03CH21-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Mar. 04, 2026~ Mar. 10, 2026	N/A	Radiation (03CH21-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Mar. 04, 2026~ Mar. 10, 2026	N/A	Radiation (03CH21-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Mar. 04, 2026~ Mar. 10, 2026	N/A	Radiation (03CH21-HY)
Software	Audix	E3 6.2009-8-24	RK-001053	N/A	N/A	Mar. 04, 2026~ Mar. 10, 2026	N/A	Radiation (03CH21-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	N/A	Oct. 16, 2025	Mar. 04, 2026~ Mar. 09, 2026	Oct. 15, 2026	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec. 11, 2025	Mar. 04, 2026~ Mar. 09, 2026	Dec. 10, 2026	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May. 26, 2025	Mar. 04, 2026~ Mar. 09, 2026	May. 25, 2026	Radiation (03CH20-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Mar. 04, 2026~ Mar. 09, 2026	N/A	Radiation (03CH20-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Mar. 04, 2026~ Mar. 09, 2026	N/A	Radiation (03CH20-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Mar. 04, 2026~ Mar. 09, 2026	N/A	Radiation (03CH20-HY)
Signal Analyzer	Keysight	N9010B	MY60240520	10Hz~44GHz	Dec. 10, 2025	Mar. 04, 2026~ Mar. 09, 2026	Dec. 09, 2026	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N-06	47020 & 06	30MHz~1GHz	Oct. 04, 2025	Mar. 04, 2026~ Mar. 09, 2026	Oct. 03, 2026	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	02360	1GHz-18GHz	Nov. 05, 2025	Mar. 04, 2026~ Mar. 09, 2026	Nov. 04, 2026	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1224	18GHz-40GHz	Jul. 02, 2025	Mar. 04, 2026~ Mar. 09, 2026	Jul. 01, 2026	Radiation (03CH20-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Preamplifier	COM-POWER	PAM-103	18020201	1MHz-1000MHz	Dec. 30, 2025	Mar. 04, 2026~ Mar. 09, 2026	Dec. 29, 2026	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45SE	980792	N/A	Nov. 11, 2025	Mar. 04, 2026~ Mar. 09, 2026	Nov. 10, 2026	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,804015/2,804027/2	N/A	Jan. 15, 2026	Mar. 04, 2026~ Mar. 09, 2026	Jan. 14, 2027	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303A	TP211382	N/A	Mar. 31, 2025	Mar. 04, 2026~ Mar. 09, 2026	Mar. 30, 2026	Radiation (03CH20-HY)
Software	Audix	N/A	RK-002156	N/A	N/A	Mar. 04, 2026~ Mar. 09, 2026	N/A	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	37059 & 01	30MHz~1GHz	Nov. 26, 2025	Mar. 11, 2026~ Mar. 13, 2026	Nov. 25, 2026	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec. 11, 2025	Mar. 11, 2026~ Mar. 13, 2026	Dec. 10, 2026	Radiation (03CH11-HY)
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-01620	1GHz~18GHz	Sep. 15, 2025	Mar. 11, 2026~ Mar. 13, 2026	Sep. 14, 2026	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1224	18GHz~40GHz	Jul. 02, 2025	Mar. 11, 2026~ Mar. 13, 2026	Jul. 01, 2026	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 06, 2025	Mar. 11, 2026~ Mar. 13, 2026	Dec. 05, 2026	Radiation (03CH11-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18G-56-01-A70	EC1900249	1GHz~18GHz	Jan. 20, 2026	Mar. 11, 2026~ Mar. 13, 2026	Jan. 19, 2027	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May 26, 2025	Mar. 11, 2026~ Mar. 13, 2026	May 25, 2026	Radiation (03CH11-HY)
Signal Analyzer	Keysight	N9010A	MY54200486	10Hz~44GHz	Oct. 23, 2025	Mar. 11, 2026~ Mar. 13, 2026	Oct. 22, 2026	Radiation (03CH11-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290045	20Hz~8.4GHz	Apr. 21, 2025	Mar. 11, 2026~ Mar. 13, 2026	Apr. 20, 2026	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Mar. 11, 2026~ Mar. 13, 2026	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Mar. 11, 2026~ Mar. 13, 2026	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Mar. 11, 2026~ Mar. 13, 2026	N/A	Radiation (03CH11-HY)
Software	Audix	E3	RK-002391	N/A	N/A	Mar. 11, 2026~ Mar. 13, 2026	N/A	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP210117	N/A	Oct. 02, 2025	Mar. 11, 2026~ Mar. 13, 2026	Oct. 01, 2026	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP200880	N/A	Aug. 26, 2025	Mar. 11, 2026~ Mar. 13, 2026	Aug. 25, 2026	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804013/2	30M~40G	Mar. 04, 2026	Mar. 11, 2026~ Mar. 13, 2026	Mar. 03, 2027	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 04, 2026	Mar. 11, 2026~ Mar. 13, 2026	Mar. 03, 2027	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	30M~40G	Mar. 04, 2026	Mar. 11, 2026~ Mar. 13, 2026	Mar. 03, 2027	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	805139 2	9K~30M	Mar. 04, 2026	Mar. 11, 2026~ Mar. 13, 2026	Mar. 03, 2027	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	805139 2	30M~40G	Mar. 04, 2026	Mar. 11, 2026~ Mar. 13, 2026	Mar. 03, 2027	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN11	1.53GHz Low Pass Filter	Sep. 09, 2025	Mar. 11, 2026~ Mar. 13, 2026	Sep. 08, 2026	Radiation (03CH11-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	Rohde & Schwarz	FSW43	101456	2Hz to 43.5GHz	Feb. 04, 2026	Mar. 06, 2026~ Mar. 13, 2026	Feb. 03, 2027	Radiation (03CH18-HY)
Harmonic Mixer	Rohde & Schwarz	RPG FS-Z75	102042	50 GHz to 75 GHz	Jun. 27, 2024	Mar. 06, 2026~ Mar. 13, 2026	Jun. 26, 2027	Radiation (03CH18-HY)
Harmonic Mixer*	Rohde & Schwarz	RPG FS-Z60	101033	40GHz to 60GHz	Jun. 27, 2024	Mar. 06, 2026~ Mar. 13, 2026	Jun. 26, 2027	Radiation (03CH18-HY)
Harmonic Mixer*	Rohde & Schwarz	FSZ-90	101867	60GHz to 90GHz	Jun. 27, 2024	Mar. 06, 2026~ Mar. 13, 2026	Jun. 26, 2027	Radiation (03CH18-HY)
Harmonic Mixer*	Rohde & Schwarz	RPG FS-Z140	101130	90GHz to 140GHz	Jun. 27, 2024	Mar. 06, 2026~ Mar. 13, 2026	Jun. 26, 2027	Radiation (03CH18-HY)
Harmonic Mixer	Rohde & Schwarz	RPG FS-Z220	101042	140GHz to 220GHz	Jun. 27, 2024	Mar. 06, 2026~ Mar. 13, 2026	Jun. 26, 2027	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-VPRR00	1371800008	50-75 GHz	Jun. 27, 2024	Mar. 06, 2026~ Mar. 13, 2026	Jun. 26, 2027	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-UPRR00	1410300003	40-60 GHz	Jun. 27, 2024	Mar. 06, 2026~ Mar. 13, 2026	Jun. 26, 2027	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-EPRR00	1372000000	60-90 GHz	Jun. 27, 2024	Mar. 06, 2026~ Mar. 13, 2026	Jun. 26, 2027	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-FPRR00	1011500008	90-140 GHz	Jun. 27, 2024	Mar. 06, 2026~ Mar. 13, 2026	Jun. 26, 2027	Radiation (03CH18-HY)
Antenna	Quinstar	QWH-GPRR00	QWH-GPRR00 -01	140-220 GHz	Jun. 27, 2024	Mar. 06, 2026~ Mar. 13, 2026	Jun. 26, 2027	Radiation (03CH18-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801607/2	N/A	Dec. 24, 2025	Mar. 06, 2026~ Mar. 13, 2026	Dec. 23, 2026	Radiation (03CH18-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519231/2	N/A	Dec. 24, 2025	Mar. 06, 2026~ Mar. 13, 2026	Dec. 23, 2026	Radiation (03CH18-HY)
Detector	Quinstars	QEA-FBFBVP	2672009	50 ~ 75 GHz	Jul. 09, 2024	Mar. 06, 2026~ Mar. 13, 2026	Jul. 08, 2027	Radiation (03CH18-HY)
Oscilloscope	Rohde & Schwarz	RTO 1002	400025	600MHz, 10GSa/sec	Aug. 29, 2025	Mar. 06, 2026~ Mar. 13, 2026	Aug. 28, 2026	Radiation (03CH18-HY)
Temperature Chamber	ESPEC	SU-641	92013720	-40℃ ~90℃	Sep. 10, 2025	Mar. 06, 2026~ Mar. 13, 2026	Sep. 09, 2026	Radiation (03CH18-HY)
AC Power Source	AC POWER	AFC-500W	F104070011	50Hz~60Hz	May 12, 2025	Mar. 06, 2026~ Mar. 13, 2026	N/A	Radiation (03CH18-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 04, 2025	Mar. 06, 2026	Nov. 03, 2026	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	17I00015SNO 37 (NO:167)	10MHz~6GHz	Nov. 14, 2025	Mar. 06, 2026	Nov. 13, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101468	10HZ~44GHZ	Mar. 13, 2025	Mar. 06, 2026	Mar. 12, 2026	Conducted (TH05-HY)
Switch Control Mainframe	E-Instument	ETF-1405-0	EC1900067 (BOX7)	N/A	Jul. 02, 2025	Mar. 06, 2026	Jul. 01, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_ve rsion_240513	N/A	Conducted Other Test Item	N/A	Mar. 06, 2026	N/A	Conducted (TH05-HY)

Note: (*) Equipment manufacturer's Calibration Certificate.

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