FCC RADIO TEST REPORT

FCC ID	:	W2Z-03000019
Equipment	:	DIGITAL CAMERA
Brand Name	:	FUJIFILM Corporation
Model Name	:	FI054
Applicant	:	FUJIFILM Corporation 7-3, AKASAKA 9-CHOME, MINATO-KU, TOKYO 107-0052, JAPAN
Manufacturer	:	ALTEK SDN. BHD. NO. 10, JALAN TEKNOLOGI PERINTIS 1/3, TAMAN TEKNOLOGI NUSAJAYA, ISKANDAR PUTERI, JOHOR MALAYSIA
Standard	:	FCC Part 15 Subpart C §15.247

The product was received on Feb. 11, 2026 and testing was performed from Mar. 02, 2026 to Apr. 10, 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.)

Table of Contents

History of this test report **3**
Summary of Test Result **4**
1 General Description **5**
1.1 Product Feature of Equipment Under Test 5
1.2 Modification of EUT 5
1.3 Testing Location 5
1.4 Applicable Standards 6
2 Test Configuration of Equipment Under Test **7**
2.1 Carrier Frequency Channel 7
2.2 Test Mode 8
2.3 Connection Diagram of Test System 9
2.4 Support Unit used in test configuration and system 9
2.5 EUT Operation Test Setup 9
2.6 Measurement Results Explanation Example 10
3 Test Result **11**
3.1 6dB and 99% Bandwidth Measurement 11
3.2 Output Power Measurement 12
3.3 Power Spectral Density Measurement 13
3.4 Conducted Band Edges and Spurious Emission Measurement 14
3.5 Radiated Band Edges and Spurious Emission Measurement 15
3.6 AC Conducted Emission Measurement 19
3.7 Antenna Requirements 21
4 List of Measuring Equipment **22**
5 Measurement Uncertainty **24**
Appendix A. Conducted Test Results
Appendix B. AC Conducted Emission Test Result
Appendix C. Radiated Spurious Emission Test Result
Appendix D. Duty Cycle Plots
Appendix E. Setup Photographs

History of this test report

Report No.	Version	Description	Issue Date
FR620359	01	Initial issue of report	May 11, 2026

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
3.2	15.247(b)(3) 15.247(b)(4)	Output Power	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges and Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Spurious Emission	Pass	-
3.6	15.207	AC Conducted Emission	Pass	-
3.7	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

1. 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.
2. 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: Freda Wu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs Bluetooth-LE **Antenna Type** Bluetooth: FPC Antenna

Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	3.76

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 1190 and 3786 designated by NCC (National Communication Commission).

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

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.: TW1190 and TW3786

Note:

1. The test site complies with ANSI C63.4 2014 requirement.
2. The AC Conducted Emission test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory.

1.4 Applicable Standards

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

- FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- FCC KDB 414788 D01 Radiated Test Site v01r01
- FCC Part 15 Subpart C §15.247
- 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.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

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

2.2 Test Mode

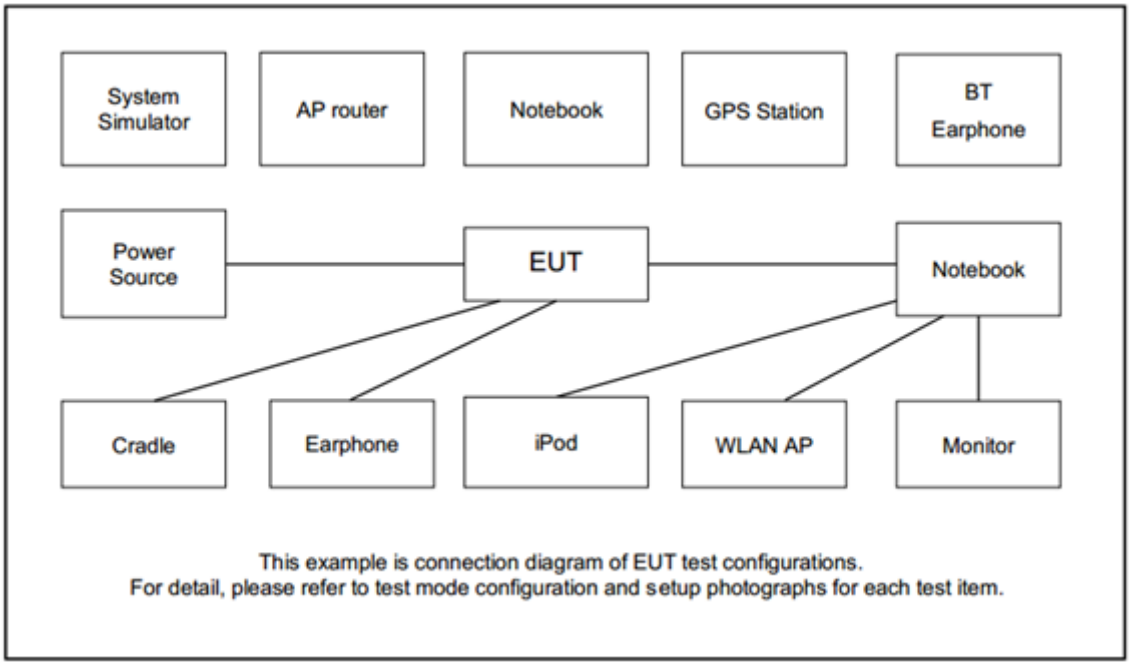
a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). 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 / GFSK**
	Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps Mode 4: Bluetooth Tx CH00_2402 MHz_2Mbps Mode 5: Bluetooth Tx CH19_2440 MHz_2Mbps Mode 6: Bluetooth Tx CH39_2480 MHz_2Mbps
AC Conducted Emission	Mode 1: Bluetooth-LE Tx (1Mbps Ch19) + USB Port Charging with 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 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Adapter	OPPO	VCA7JBUH	FCC DoC	N/A	N/A
2.	Power Supply	GW Instek	GPE-2323	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “BO-54 Test Tool v0.256” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

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

Offset = RF cable loss + attenuator factor.

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

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

= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

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

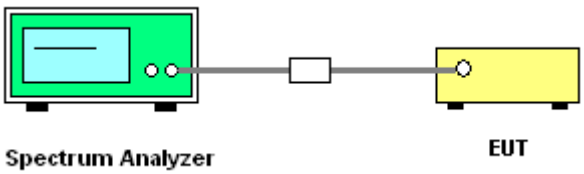
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
2. The RF output of EUT 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. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 1% to 5% of the OBW but not less than 100 kHz. Set the Video bandwidth VBW ≥ 3 * RBW. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth, and set the Video bandwidth (VBW) ≥ 3 * RBW.
6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

3.1.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

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

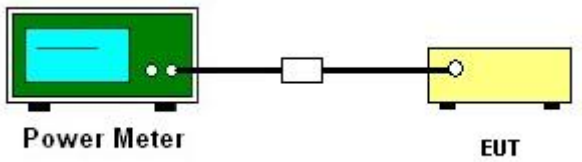
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Average Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

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

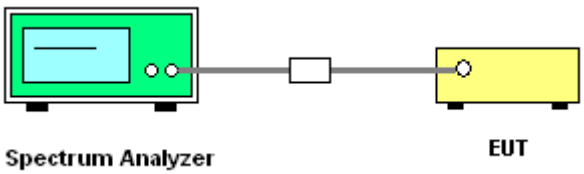
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. The RF output of EUT 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. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth (VBW) = 10 kHz. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6 dB BW)
5. Detector = peak, Sweep time = No faster than coupled (auto) time, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. The Measured power density (dBm)/ 100 kHz is a reference level and is used as 20 dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission

All harmonics/spurious must be at least 30 dB down from the highest emission level within the authorized band.

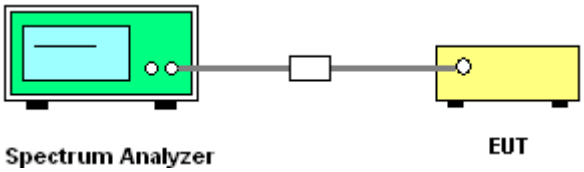
3.4.2 Measuring Instruments

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

3.4.3 Test Procedure

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

3.4.4 Test Setup



3.4.5 Test Result of Conducted Band Edges Plots

Please refer to Appendix A.

3.4.6 Test Result of Conducted Spurious Emission Plots

Please refer to Appendix A.

3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

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

3.5.2 Measuring Instruments

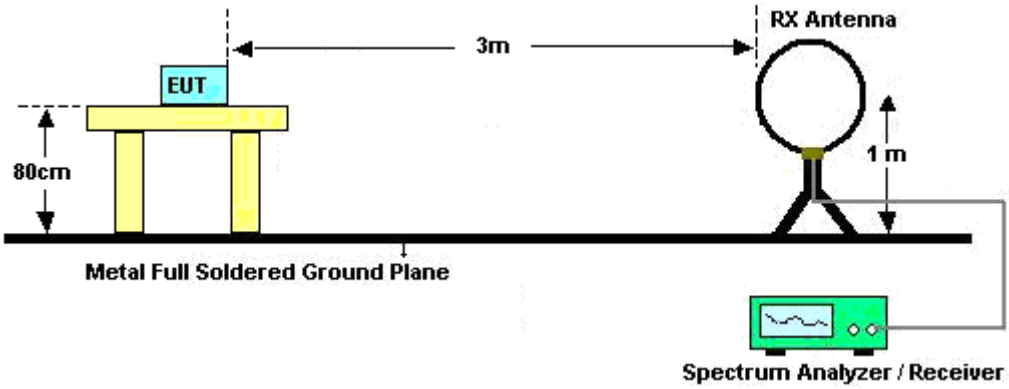
Please refer to the measuring equipment list in this test report.

3.5.3 Test Procedures

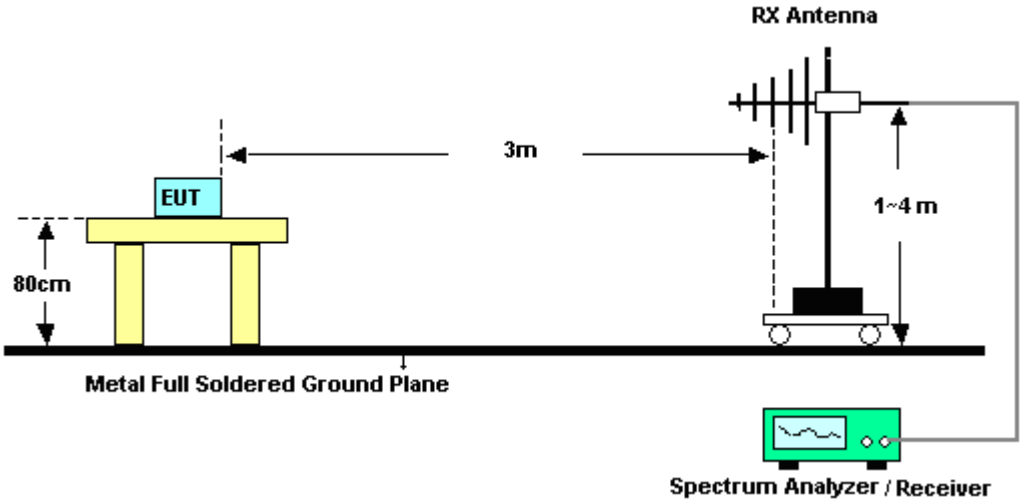
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. 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.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. 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 "-".
7. 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 "-".
8. Use the following spectrum analyzer settings:
   (1) Span shall wide enough to fully capture the emission being measured;
   (2) Set RBW = 100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
   (3) Set RBW = 1 MHz, VBW = 3 MHz for f ≥ 1 GHz for peak measurement.
   For average measurement:
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

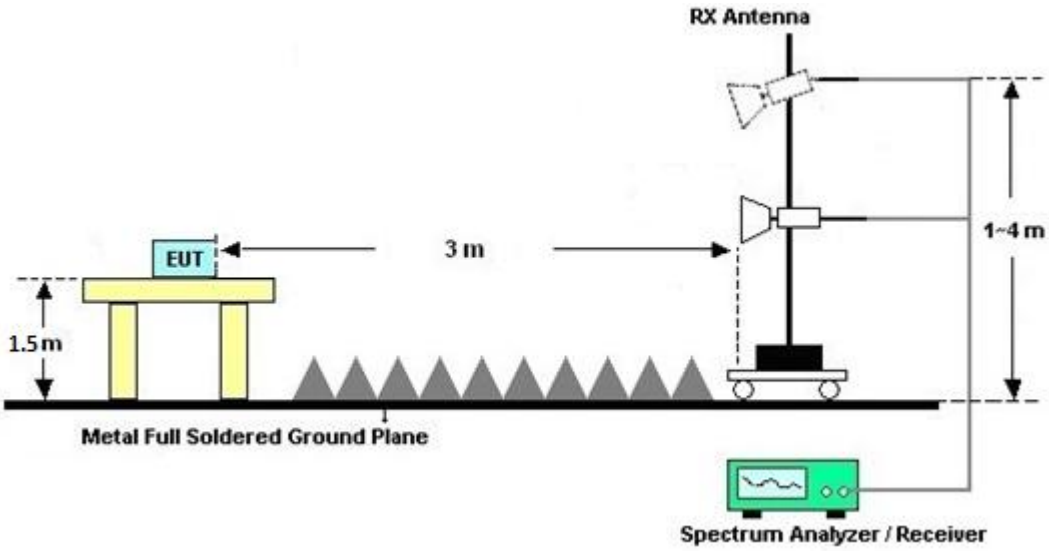
For radiated test below 30MHz



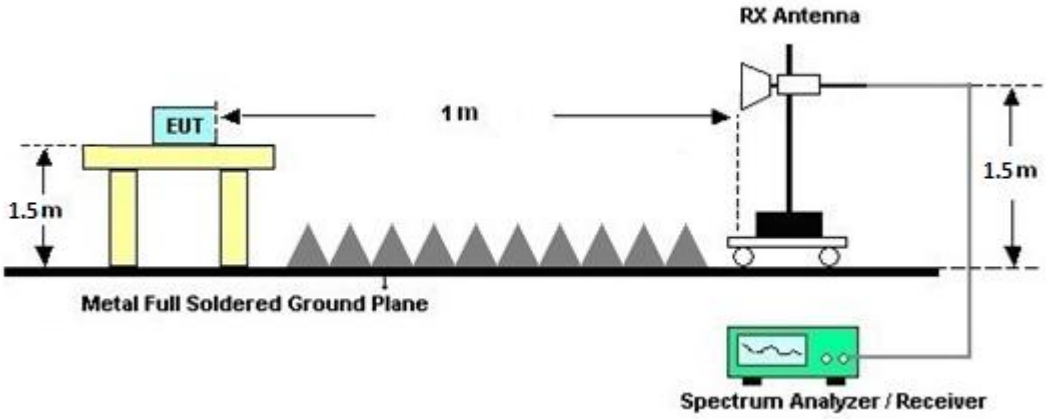
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

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.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.5.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix C.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

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

Frequency of emission (MHz)	Conducted limit (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.

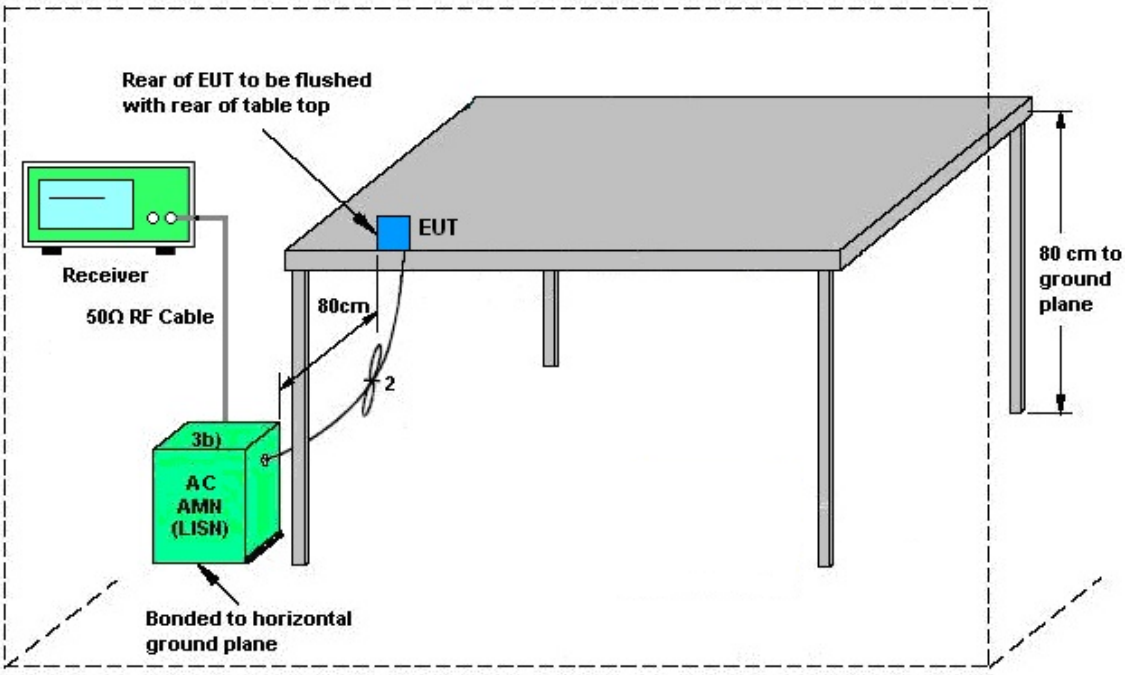
3.6.2 Measuring Instruments

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

3.6.3 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. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
6. The frequency range from 150 kHz to 30 MHz is scanned.
7. 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.

3.6.4 Test Setup



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

3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.7 Antenna Requirements

3.7.1 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.

3.7.2 Antenna Anti-Replacement Construction

Unique (non-standard) antenna connector.

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	N/A	Oct. 16, 2025	Apr. 09, 2026 ~ Apr. 10, 2026	Oct. 15, 2026	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec. 11, 2025	Apr. 09, 2026 ~ Apr. 10, 2026	Dec. 10, 2026	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060871	18GHz~40GHz	Aug. 25, 2025	Apr. 09, 2026 ~ Apr. 10, 2026	Aug. 24, 2026	Radiation (03CH20-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Apr. 09, 2026 ~ Apr. 10, 2026	N/A	Radiation (03CH20-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Apr. 09, 2026 ~ Apr. 10, 2026	N/A	Radiation (03CH20-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Apr. 09, 2026 ~ Apr. 10, 2026	N/A	Radiation (03CH20-HY)
Signal Analyzer	Keysight	N9010B	MY60240520	10Hz~44GHz	Dec. 10, 2025	Apr. 09, 2026 ~ Apr. 10, 2026	Dec. 09, 2026	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N -06	47020 & 06	30MHz~1GHz	Oct. 04, 2025	Apr. 09, 2026 ~ Apr. 10, 2026	Oct. 03, 2026	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	02360	1GHz-18GHz	Nov. 05, 2025	Apr. 09, 2026 ~ Apr. 10, 2026	Nov. 04, 2026	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1223	18GHz-40GHz	Jul. 02, 2025	Apr. 09, 2026 ~ Apr. 10, 2026	Jul. 01, 2026	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz-1000MHz	Dec. 30, 2025	Apr. 09, 2026 ~ Apr. 10, 2026	Dec. 29, 2026	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45SE	980792	N/A	Nov. 11, 2025	Apr. 09, 2026 ~ Apr. 10, 2026	Nov. 10, 2026	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,804015/2,804027/2	N/A	Jan. 15, 2026	Apr. 09, 2026 ~ Apr. 10, 2026	Jan. 14, 2027	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303A	TP211568	N/A	Oct. 21, 2025	Apr. 09, 2026 ~ Apr. 10, 2026	Oct. 20, 2026	Radiation (03CH20-HY)
Software	Audix	N/A	RK-002156	N/A	N/A	Apr. 09, 2026 ~ Apr. 10, 2026	N/A	Radiation (03CH20-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Mar. 02, 2026	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	N/A	Dec. 16, 2025	Mar. 02, 2026	Dec. 15, 2026	Conduction (CO05-HY)
Hygrometer	TECPEL	DTM-303A	TP210031	N/A	Jun. 26, 2025	Mar. 02, 2026	Jun. 25, 2026	Conduction (CO05-HY)
Two-Line V-Network	Rohde & Schwarz	ENV216	100080	N/A	Sep. 09, 2025	Mar. 02, 2026	Sep. 08, 2026	Conduction (CO05-HY)
Two-Line V-Network	Rohde & Schwarz	ENV216	100081	N/A	Jul. 25, 2025	Mar. 02, 2026	Jul. 24, 2026	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Mar. 02, 2026	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	N/A	Jul. 29, 2025	Mar. 02, 2026	Jul. 28, 2026	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	MQT24082501	N/A	Oct. 14, 2025	Mar. 02, 2026	Oct. 13, 2026	Conduction (CO05-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 04, 2025	Mar. 27, 2026	Nov. 03, 2026	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	17I00015SNO37 (NO:167)	10MHz~6GHz	Nov. 14, 2025	Mar. 27, 2026	Nov. 13, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101466	10HZ~44GHZ	Nov. 12, 2025	Mar. 27, 2026	Nov. 11, 2026	Conducted (TH05-HY)
Switch Control Mainframe	E-Instument	ETF-1405-0	EC1900067 (BOX7)	N/A	Jul. 02, 2025	Mar. 27, 2026	Jul. 01, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_version_240513	N/A	Conducted Other Test Item	N/A	Mar. 27, 2026	N/A	Conducted (TH05-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))	6.5 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.7 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.7 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.2 dB

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Jay Chen	Temperature:	21~25	°C
Test Date:	2026/3/27	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE	1Mbps	1	0	2402	1.055	0.688	0.50	Pass
BLE	1Mbps	1	19	2440	1.056	0.681	0.50	Pass
BLE	1Mbps	1	39	2480	1.056	0.676	0.50	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	1Mbps	1	0	2402	0.15	30.00	3.76	3.91	36.00	Pass
BLE	1Mbps	1	19	2440	0.19	30.00	3.76	3.95	36.00	Pass
BLE	1Mbps	1	39	2480	0.33	30.00	3.76	4.09	36.00	Pass

TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	1Mbps	1	0	2402	0.35	-14.62	3.76	8.00	Pass
BLE	1Mbps	1	19	2440	0.26	-14.73	3.76	8.00	Pass
BLE	1Mbps	1	39	2480	0.17	-14.66	3.76	8.00	Pass

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

Report Number : FR620359

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE	2Mbps	1	0	2402	2.031	1.141	0.50	Pass
BLE	2Mbps	1	19	2440	2.036	1.142	0.50	Pass
BLE	2Mbps	1	39	2480	2.038	1.145	0.50	Pass

TEST RESULTS DATA
Average Power Table

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
BLE	2Mbps	1	0	2402	0.24	30.00	3.76	4.00	36.00	Pass
BLE	2Mbps	1	19	2440	0.26	30.00	3.76	4.02	36.00	Pass
BLE	2Mbps	1	39	2480	0.35	30.00	3.76	4.11	36.00	Pass

TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	2Mbps	1	0	2402	0.32	-16.64	3.76	8.00	Pass
BLE	2Mbps	1	19	2440	0.34	-16.62	3.76	8.00	Pass
BLE	2Mbps	1	39	2480	0.24	-16.86	3.76	8.00	Pass

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

6dB Bandwidth

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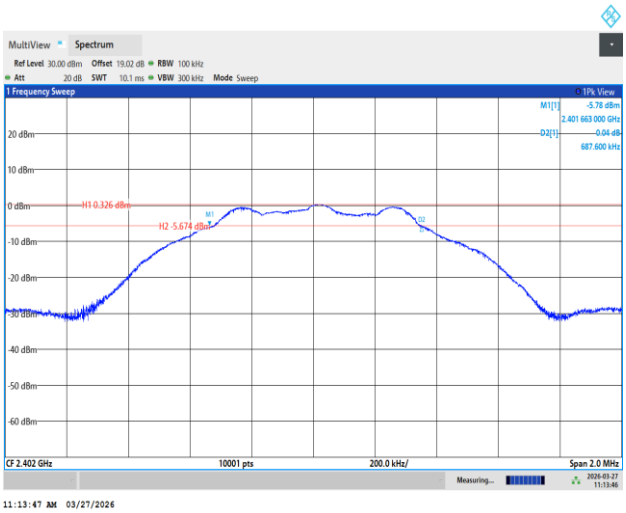
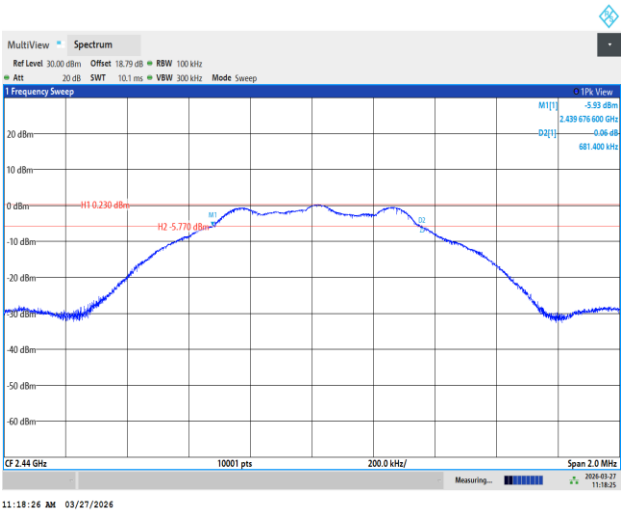
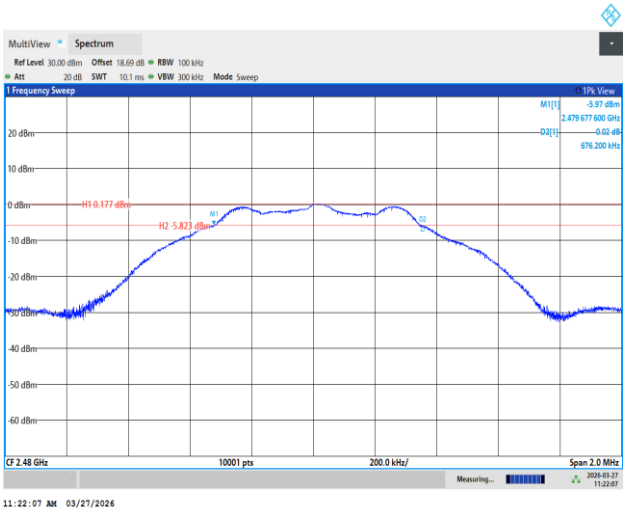
6 dB Bandwidth Plot on Channel 00	6 dB Bandwidth Plot on Channel 19
	
6 dB Bandwidth Plot on Channel 39	
	

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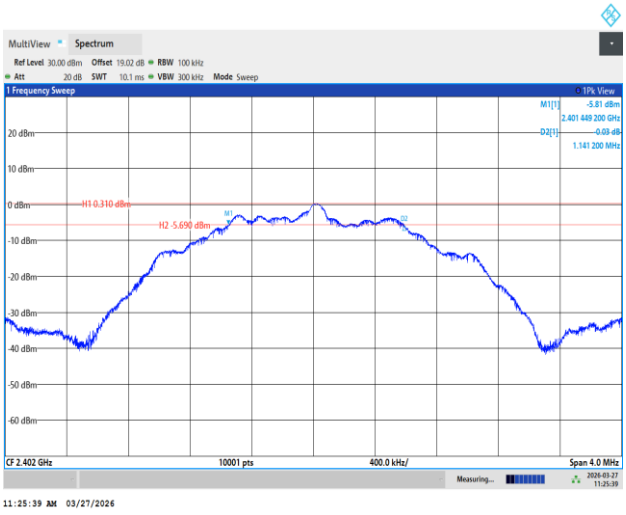
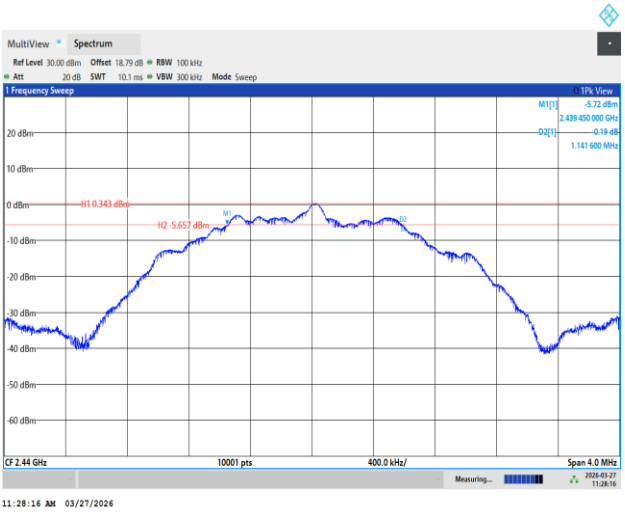
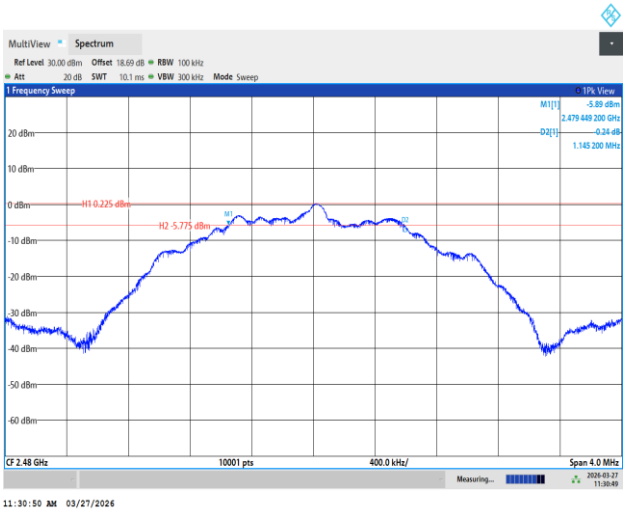
6 dB Bandwidth Plot on Channel 00	6 dB Bandwidth Plot on Channel 19
	
6 dB Bandwidth Plot on Channel 39	
	

99% Occupied Bandwidth

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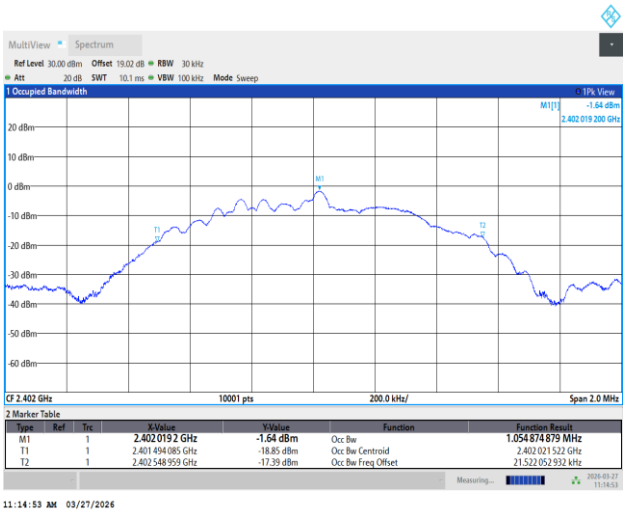
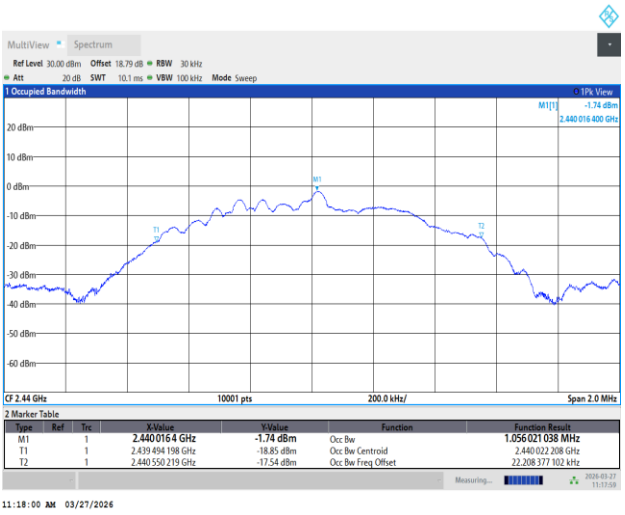
99% Occupied Bandwidth Plot on Channel 00	99% Occupied Bandwidth Plot on Channel 19
	
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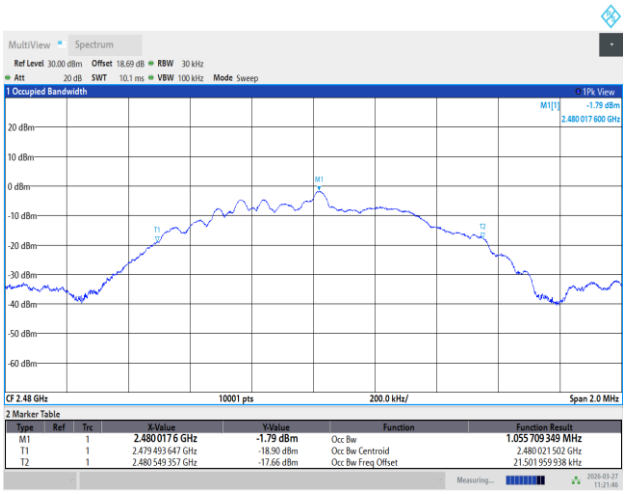	

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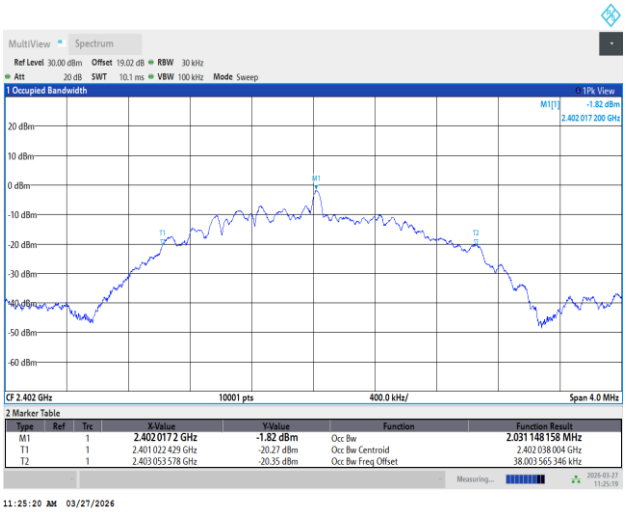
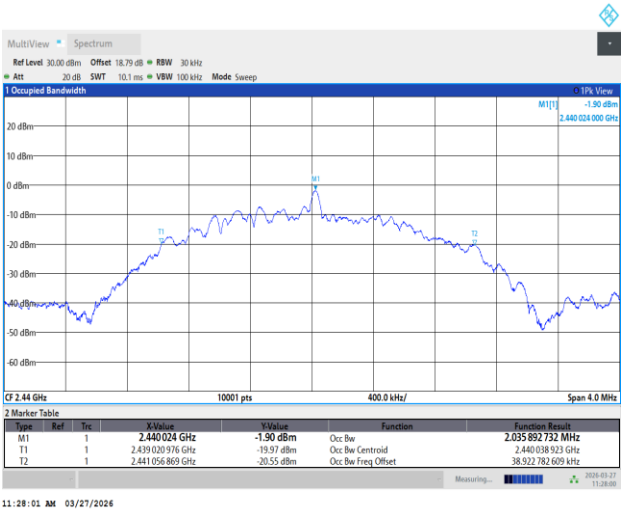
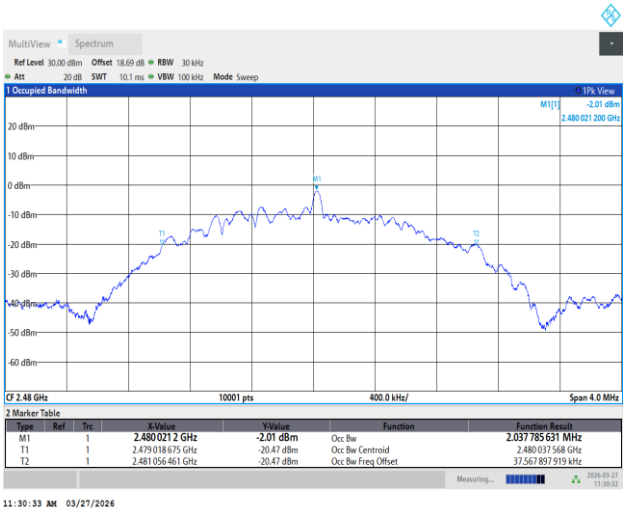
99% Occupied Bandwidth Plot on Channel 00	99% Occupied Bandwidth Plot on Channel 19
	
99% Occupied Bandwidth Plot on Channel 39	
	

Power Spectral Density (dBm/3kHz)

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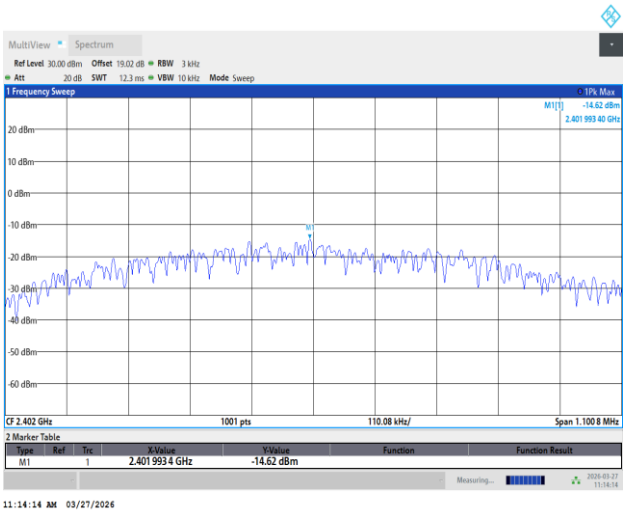
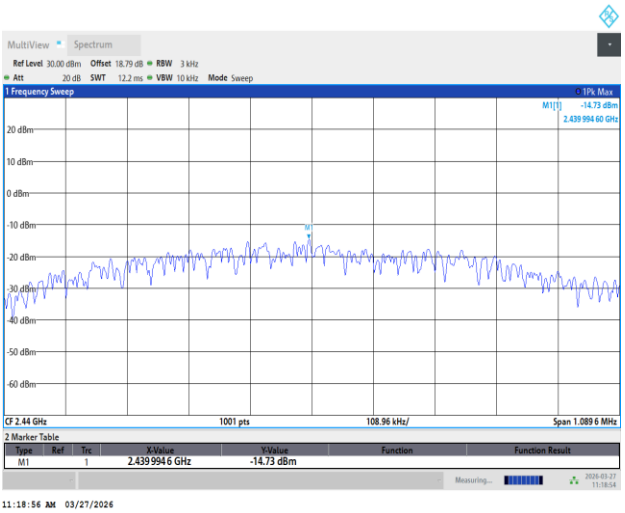
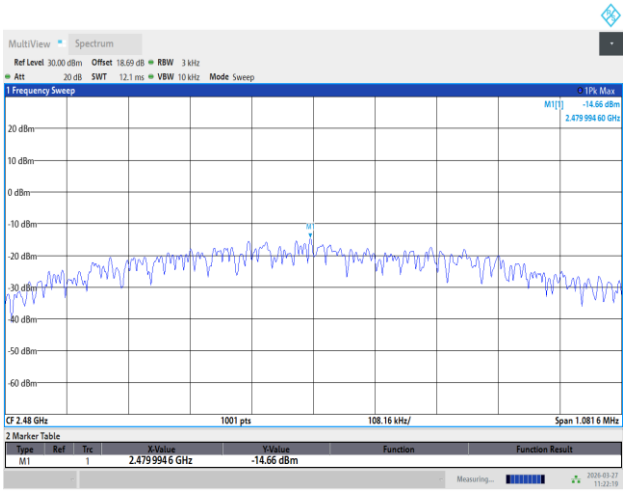
Power Density (dBm/3kHz) Plot Channel 00	Power Density (dBm/3kHz) Plot Channel 19
	
Power Density (dBm/3kHz) Plot Channel 39	
	

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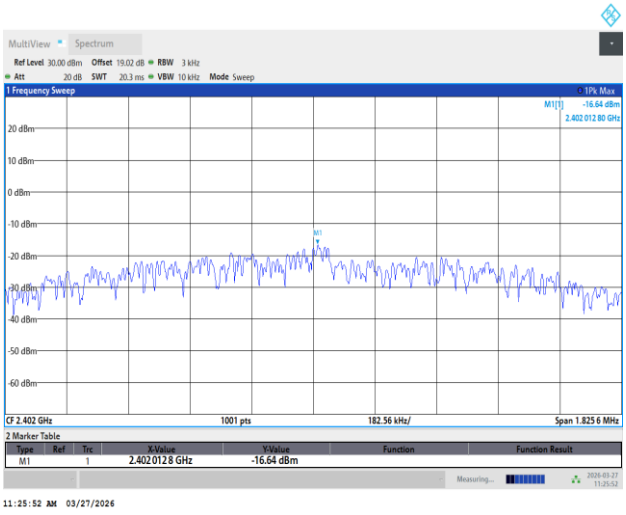
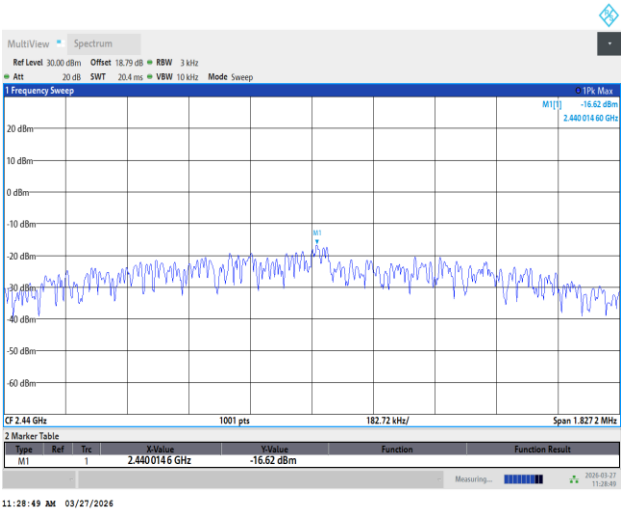
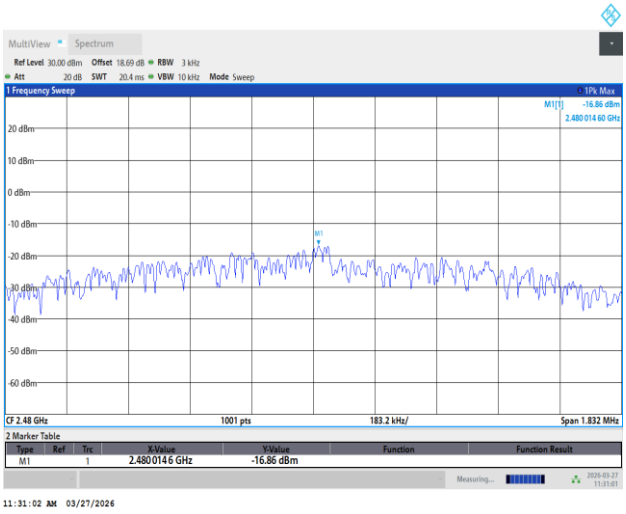
Power Density (dBm/3kHz) Plot Channel 00	Power Density (dBm/3kHz) Plot Channel 19
	
Power Density (dBm/3kHz) Plot Channel 39	
	

Band Edge and Conducted Spurious Emission

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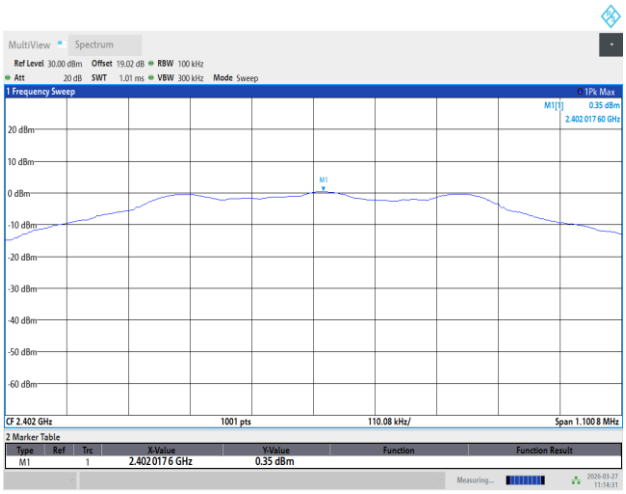
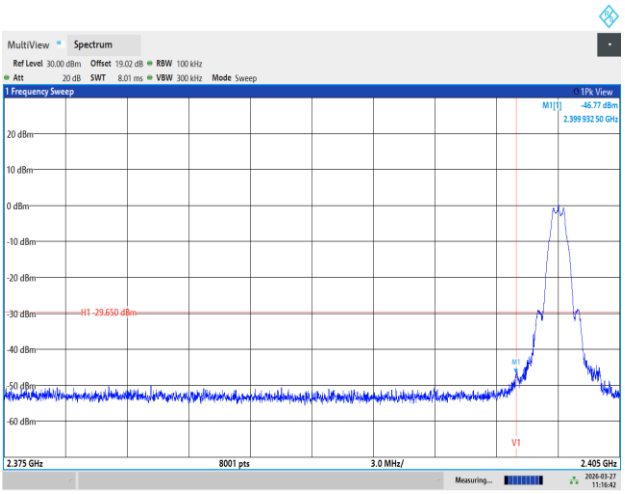
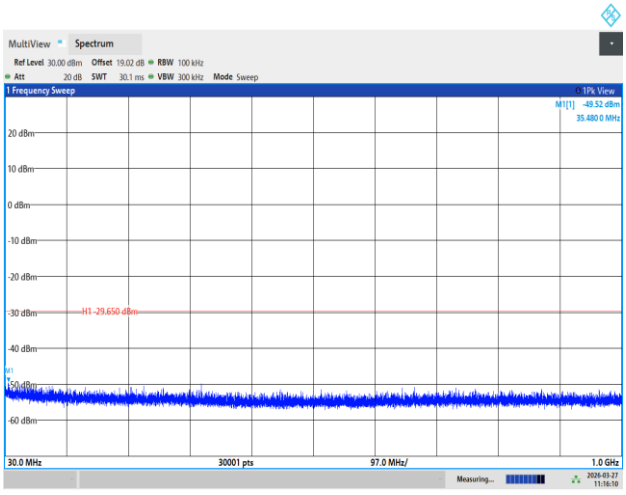
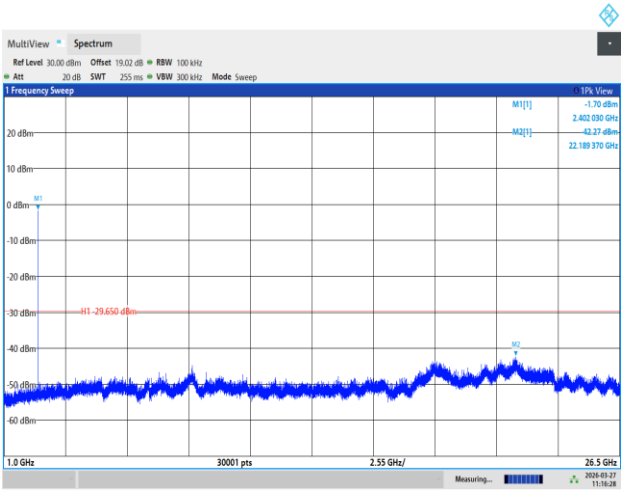
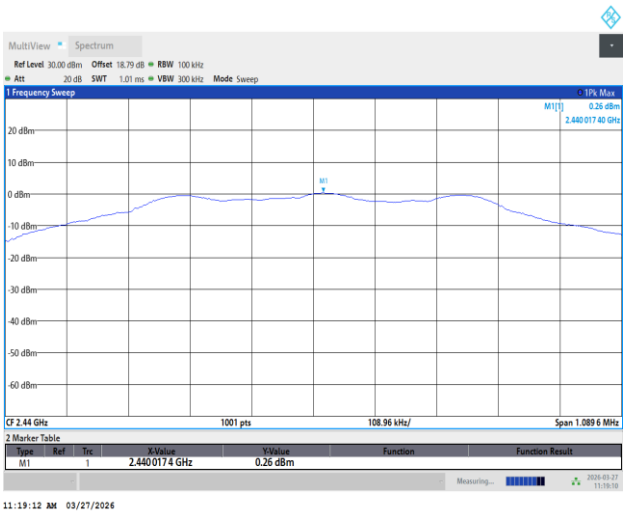
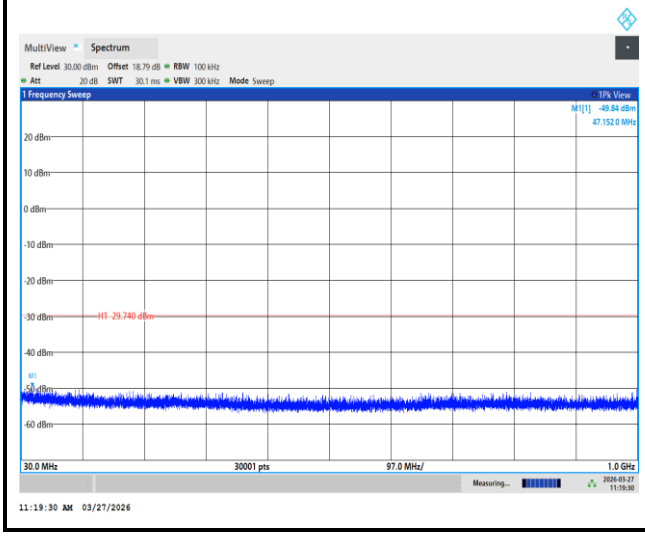
Channel 00	
100kHz PSD reference Level Plot	**Plot on Channel 00**
	
Spurious Emission 30MHz~1GHz Plot	**Spurious Emission 1GHz~26.5GHz Plot**
	

Channel 19

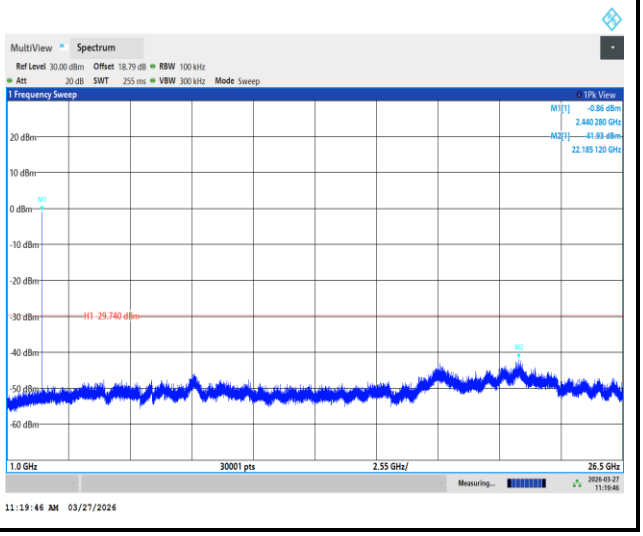
100kHz PSD reference Level Plot

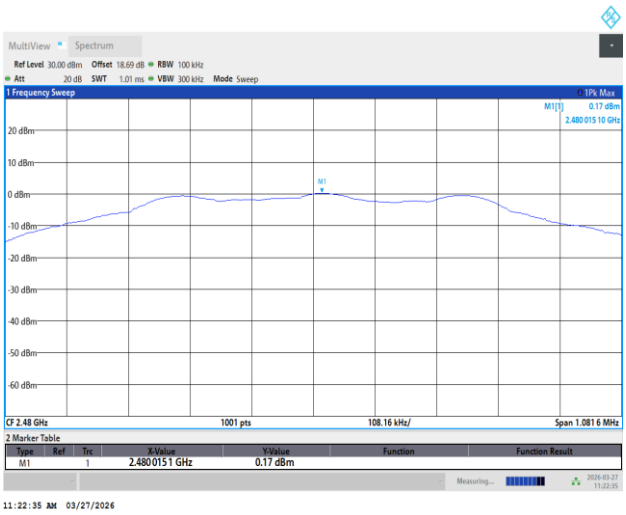
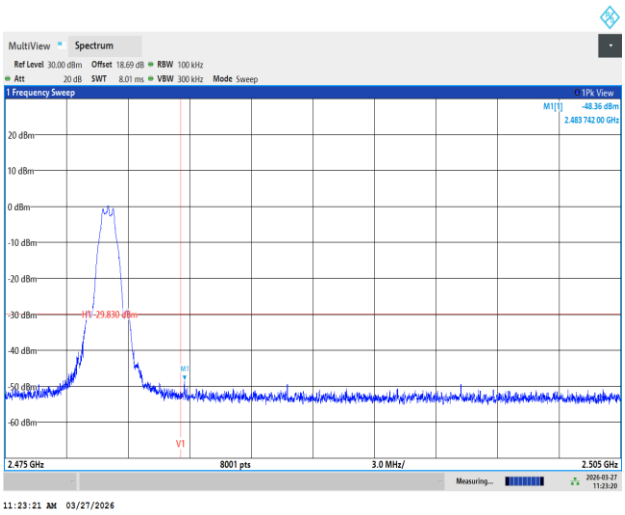
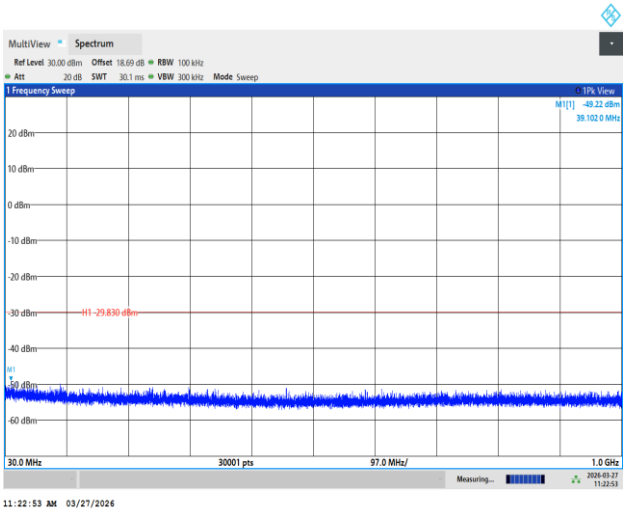
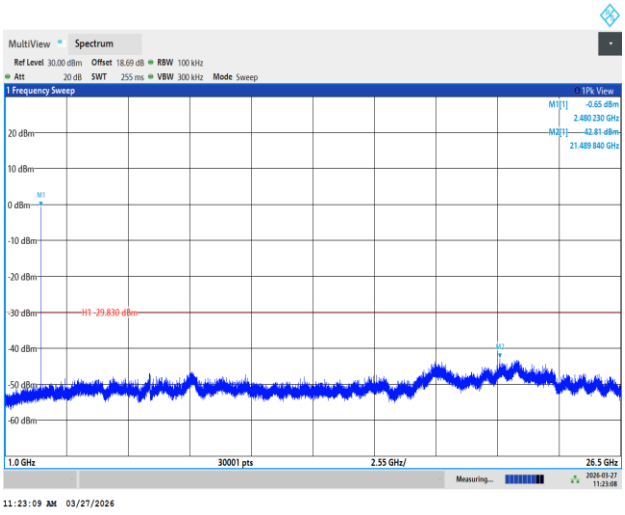


Spurious Emission 30MHz~1GHz Plot



Spurious Emission 1GHz~26.5GHz Plot



Channel 39	
100kHz PSD reference Level Plot	**Plot on Channel 39**
	
Spurious Emission 30MHz~1GHz Plot	**Spurious Emission 1GHz~26.5GHz Plot**
	

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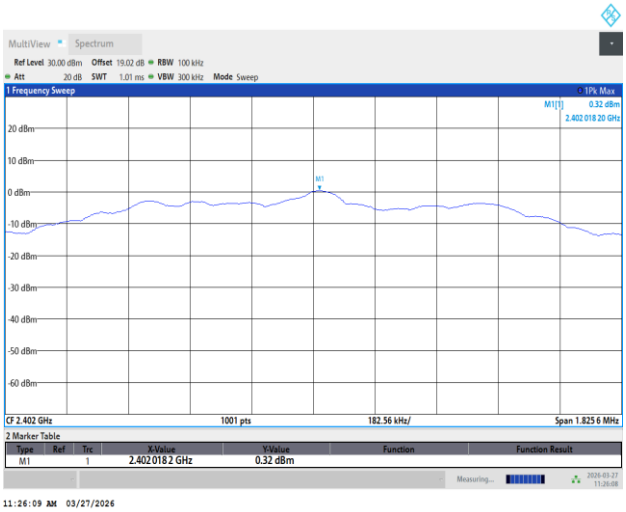
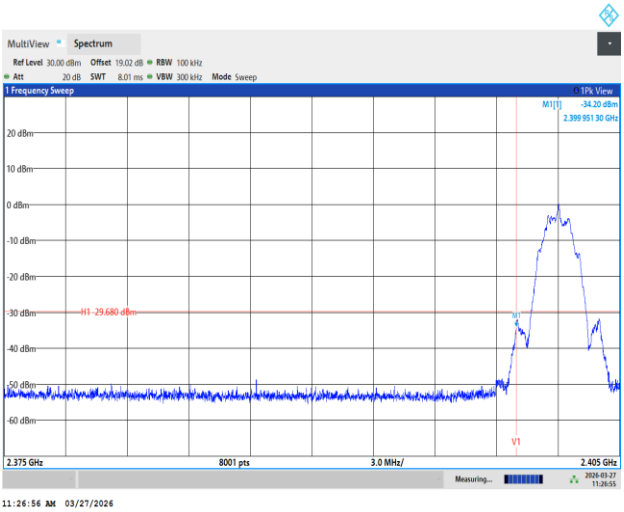
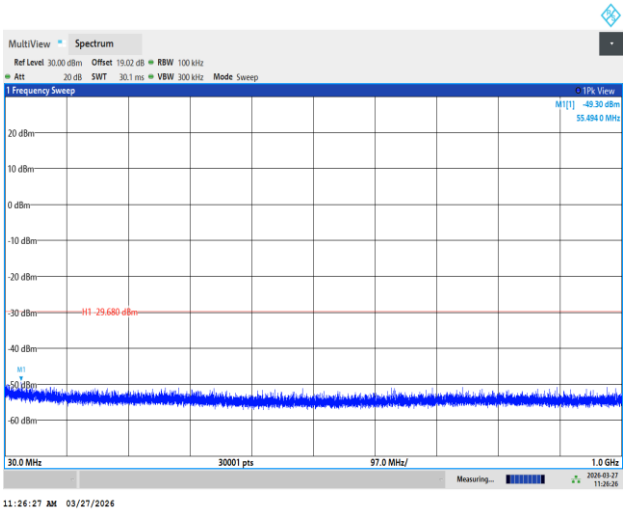
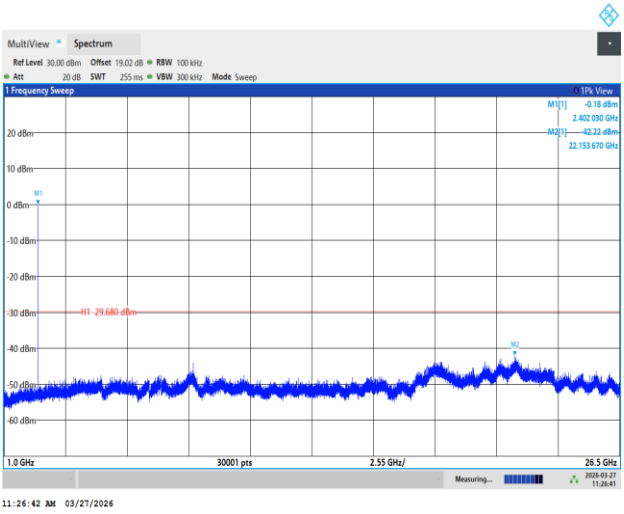
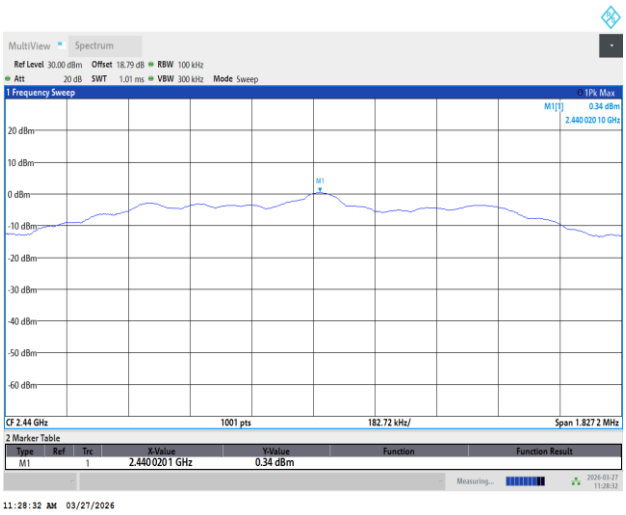
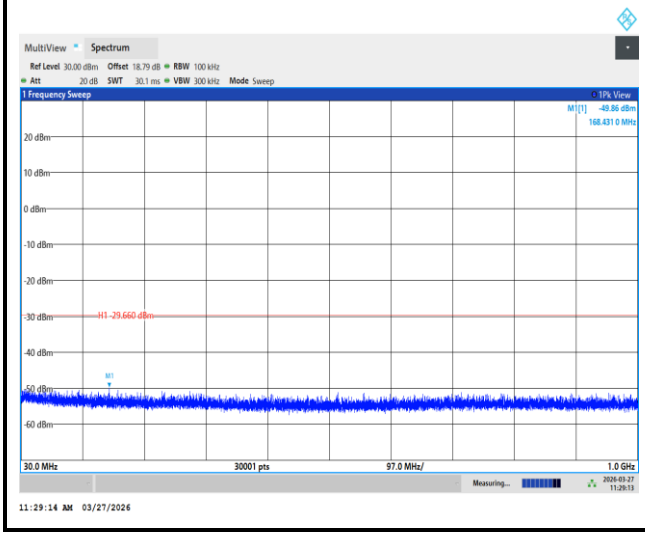
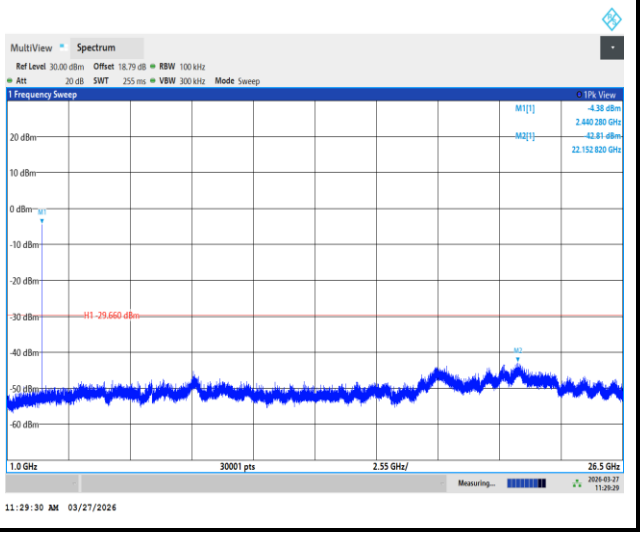
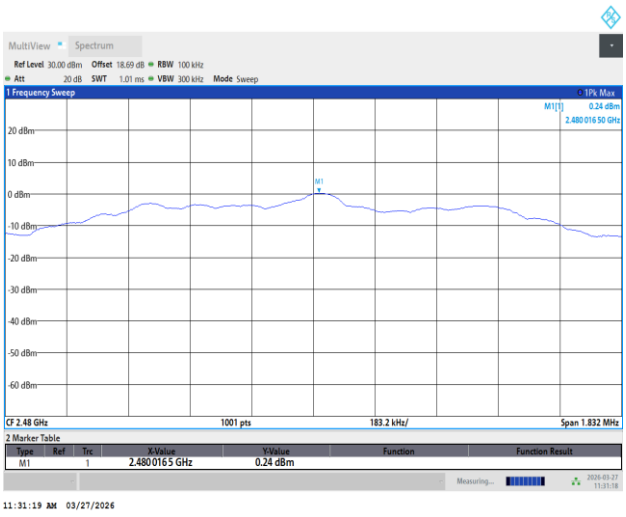
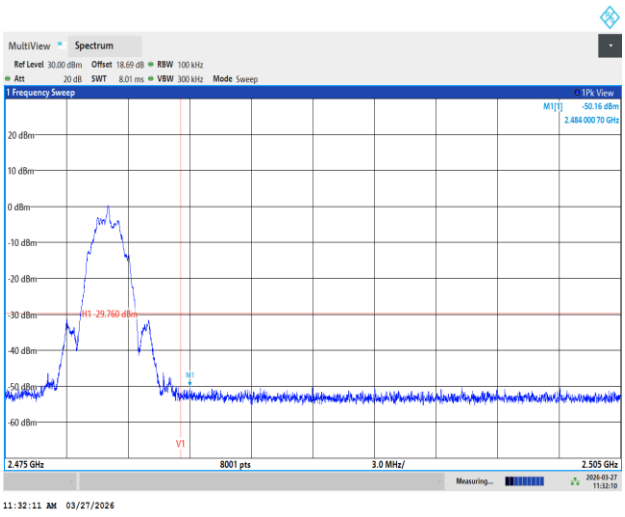
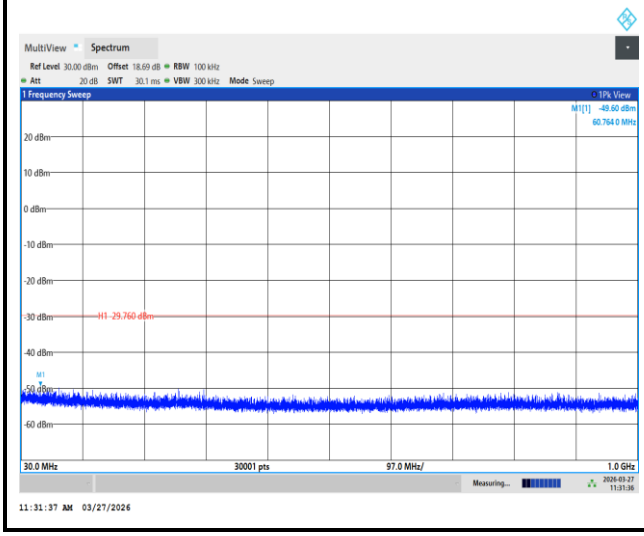
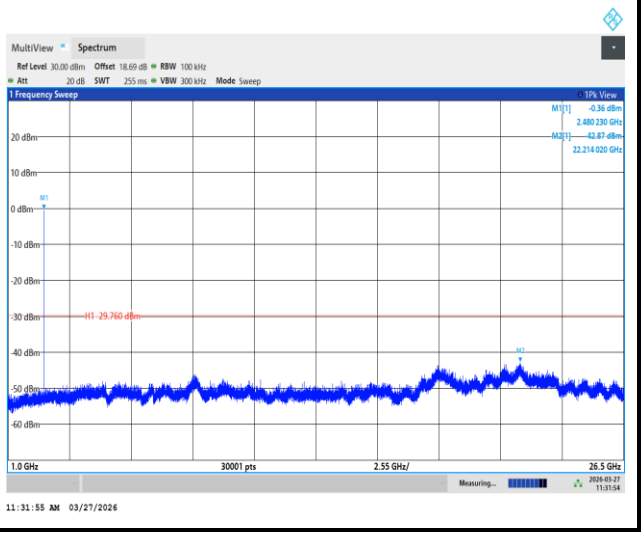
Channel 00	
100kHz PSD reference Level Plot	Plot on Channel 00
	
Spurious Emission 30MHz~1GHz Plot	Spurious Emission 1GHz~26.5GHz Plot
	

Channel 19	
100kHz PSD reference Level Plot	
	
Spurious Emission 30MHz~1GHz Plot	**Spurious Emission 1GHz~26.5GHz Plot**
	

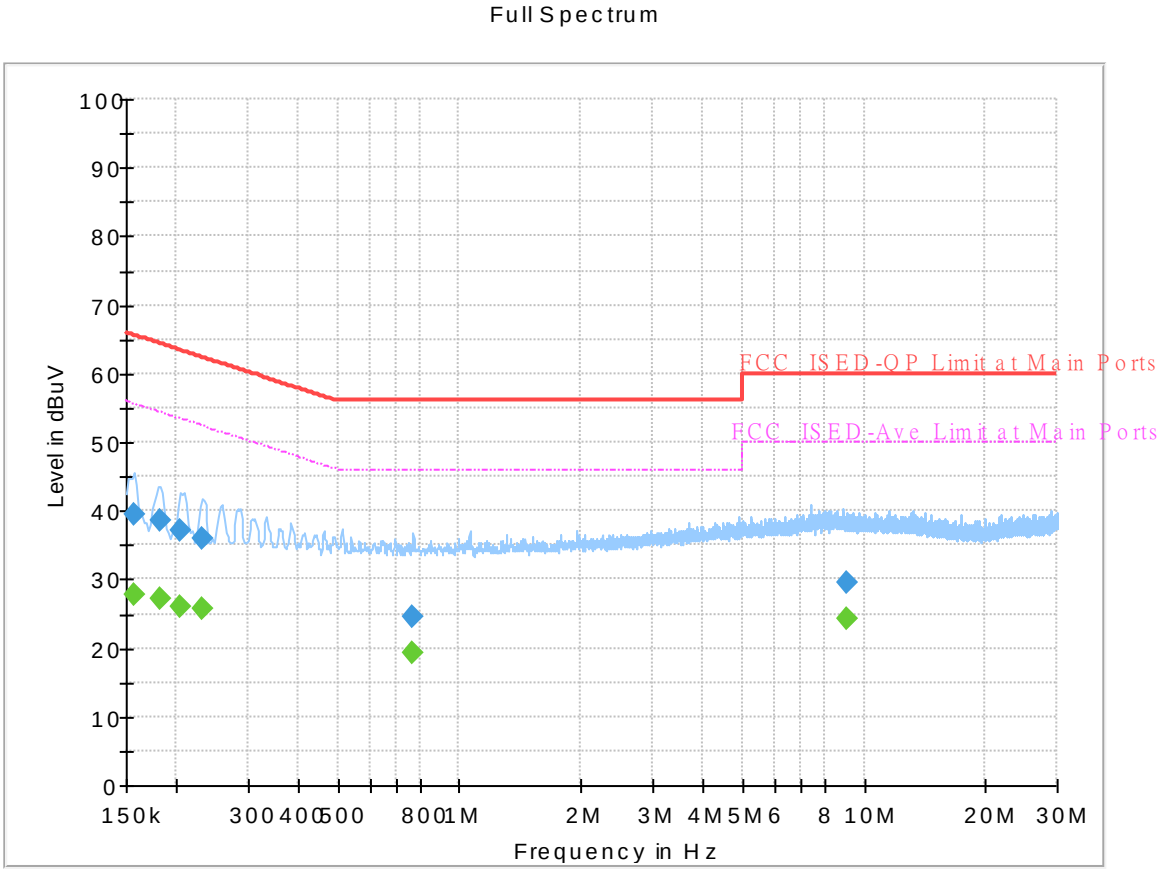
Channel 39	
100kHz PSD reference Level Plot	**Plot on Channel 39**
	
Spurious Emission 30MHz~1GHz Plot	**Spurious Emission 1GHz~26.5GHz Plot**
	

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Calvin Wang	Temperature :	23~26℃
		Relative Humidity :	45~55%

EUT Information

Report NO :	620359
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

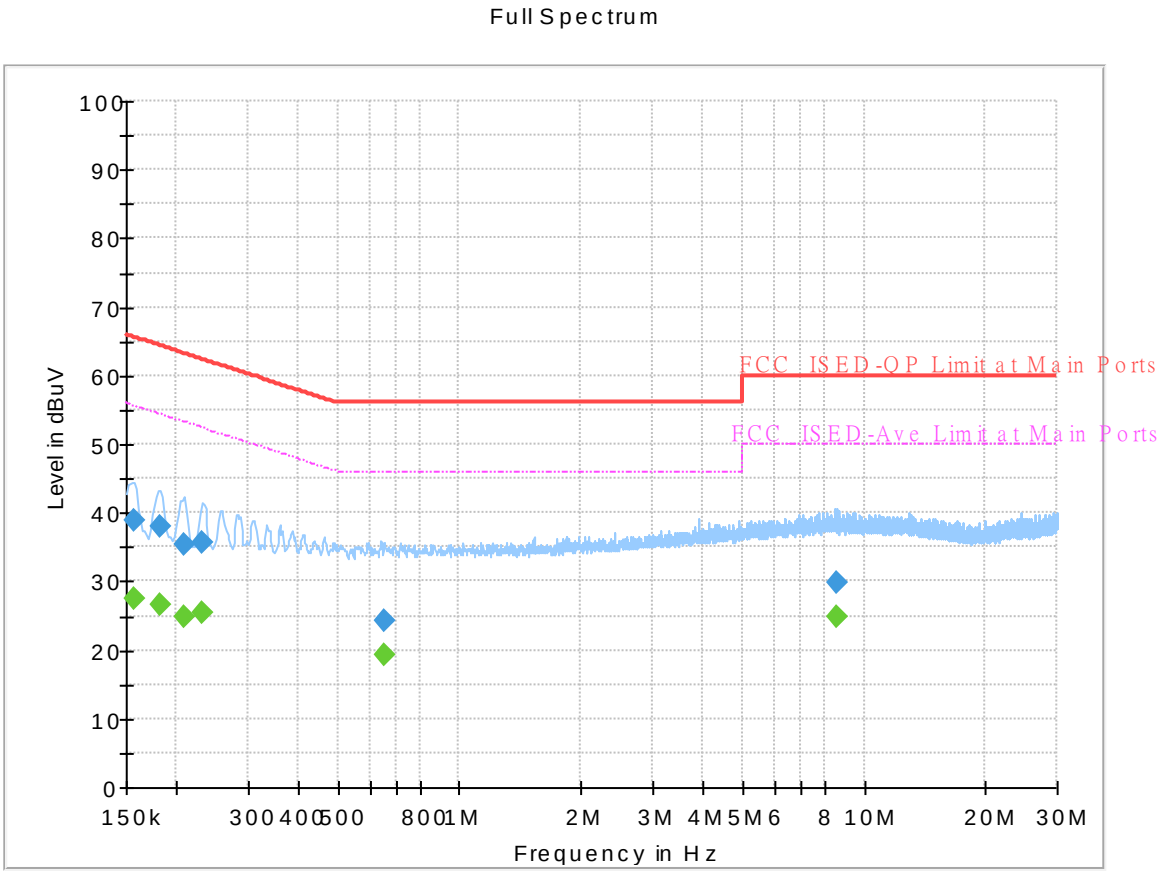


Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156750	---	27.66	55.63	27.97	L1	OFF	19.8
0.156750	39.34	---	65.63	26.29	L1	OFF	19.8
0.181500	---	27.09	54.42	27.33	L1	OFF	19.8
0.181500	38.58	---	64.42	25.84	L1	OFF	19.8
0.204000	---	26.04	53.45	27.41	L1	OFF	19.8
0.204000	36.99	---	63.45	26.46	L1	OFF	19.8
0.231000	---	25.59	52.41	26.82	L1	OFF	19.8
0.231000	35.99	---	62.41	26.42	L1	OFF	19.8
0.768750	---	19.30	46.00	26.70	L1	OFF	19.9
0.768750	24.49	---	56.00	31.51	L1	OFF	19.9
9.048750	---	24.18	50.00	25.82	L1	OFF	20.4
9.048750	29.65	---	60.00	30.35	L1	OFF	20.4

EUT Information

Report NO :	620359
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)
0.156750	---	27.40	55.63	28.23	N	OFF	19.8
0.156750	38.78	---	65.63	26.85	N	OFF	19.8
0.181500	---	26.72	54.42	27.70	N	OFF	19.8
0.181500	38.11	---	64.42	26.31	N	OFF	19.8
0.208500	---	24.74	53.27	28.53	N	OFF	19.8
0.208500	35.46	---	63.27	27.81	N	OFF	19.8
0.231000	---	25.34	52.41	27.07	N	OFF	19.8
0.231000	35.68	---	62.41	26.73	N	OFF	19.8
0.649500	---	19.16	46.00	26.84	N	OFF	19.9
0.649500	24.25	---	56.00	31.75	N	OFF	19.9
8.540250	---	24.71	50.00	25.29	N	OFF	20.4
8.540250	29.96	---	60.00	30.04	N	OFF	20.4

Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	John Chuang, David Dai and Sam Chou	**Temperature :**	18.7 ~ 19.8°C
		Relative Humidity :	65.2 ~ 69.7%

Note symbol

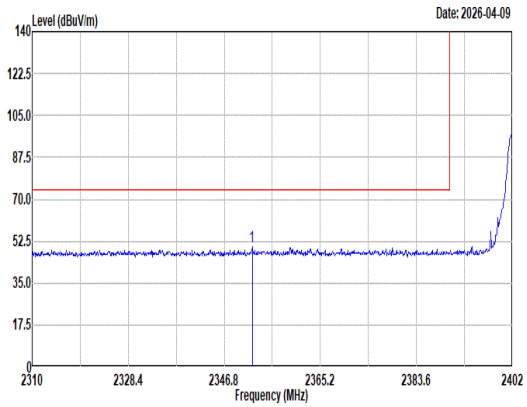
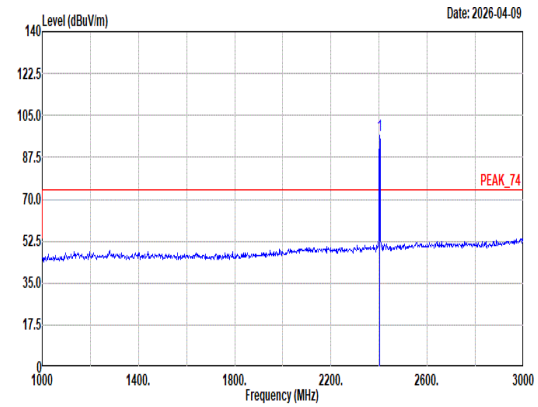
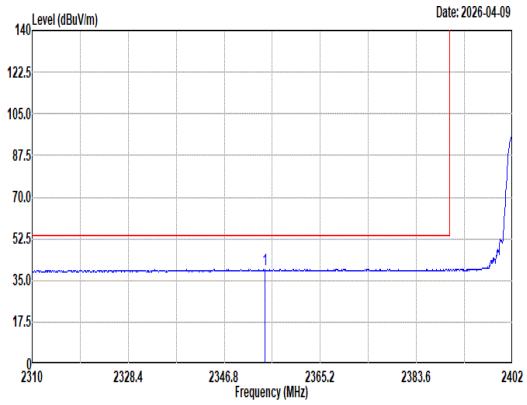
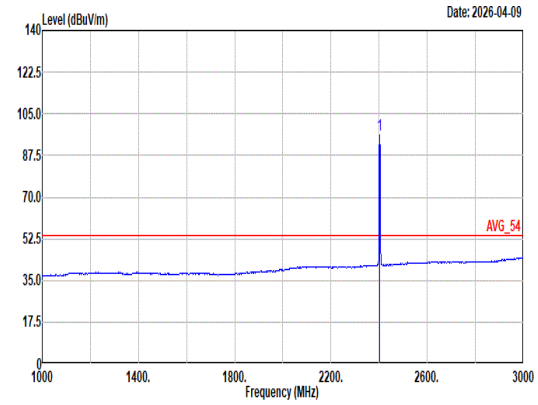
-L	**Low channel location**
-R	**High channel location**

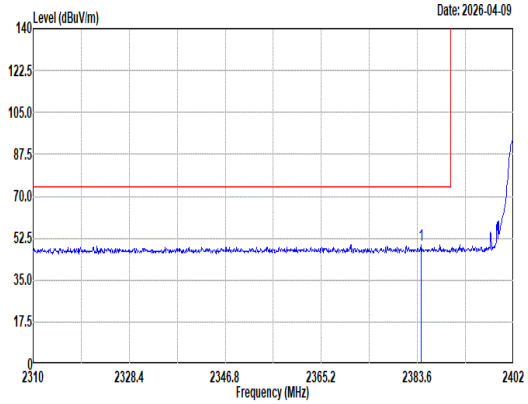
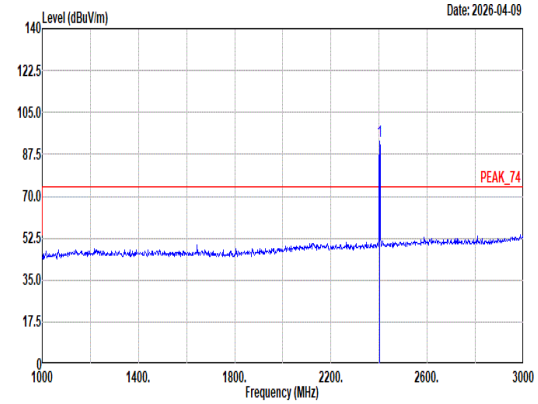
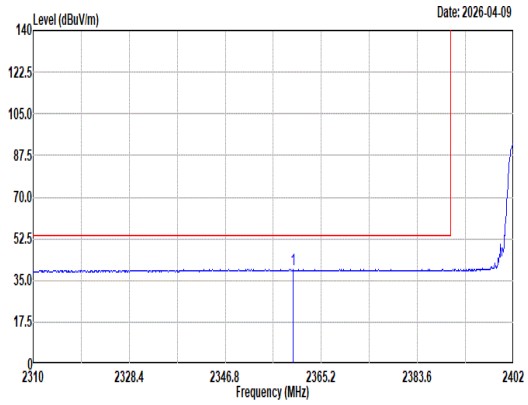
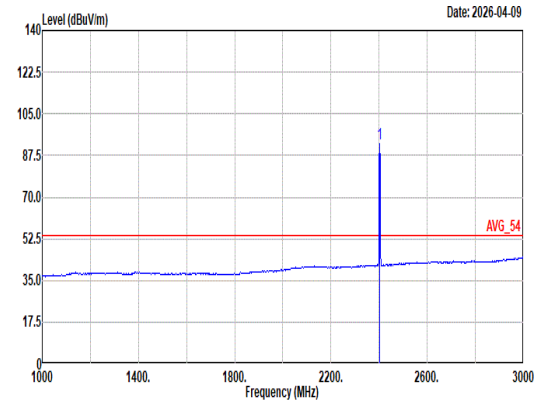
C1. Radiated Spurious Emission Test Modes

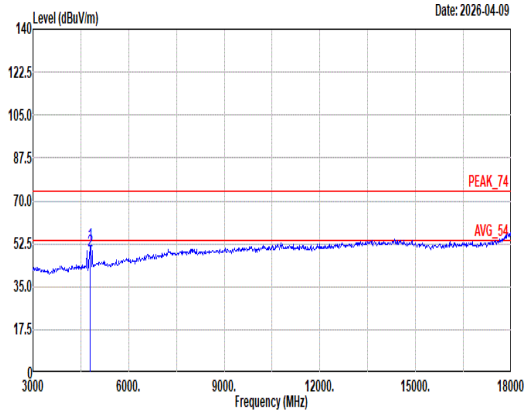
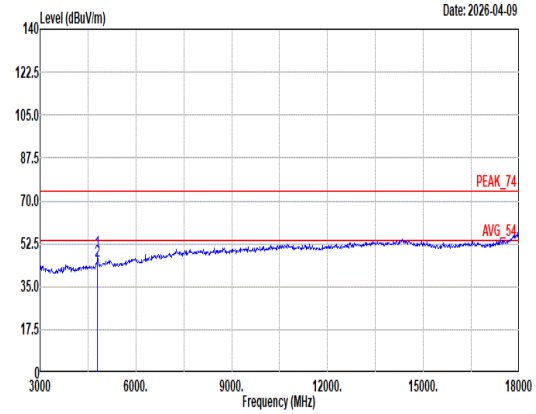
Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	Remark
Mode 1	2400-2483.5	0	Bluetooth-LE GSFK	00	2402	1Mbps	-
Mode 2	2400-2483.5	0	Bluetooth-LE GSFK	19	2440	1Mbps	-
Mode 3	2400-2483.5	0	Bluetooth-LE GSFK	39	2480	1Mbps	-
Mode 4	2400-2483.5	0	Bluetooth-LE GSFK	00	2402	2Mbps	-
Mode 5	2400-2483.5	0	Bluetooth-LE GSFK	19	2440	2Mbps	-
Mode 6	2400-2483.5	0	Bluetooth-LE GSFK	39	2480	2Mbps	-
Mode 7	2400-2483.5	0	Bluetooth-LE GSFK	LF (Below 1GHz)			
Mode 8	2400-2483.5	0	Bluetooth-LE GSFK	SHF (Above 18GHz)			

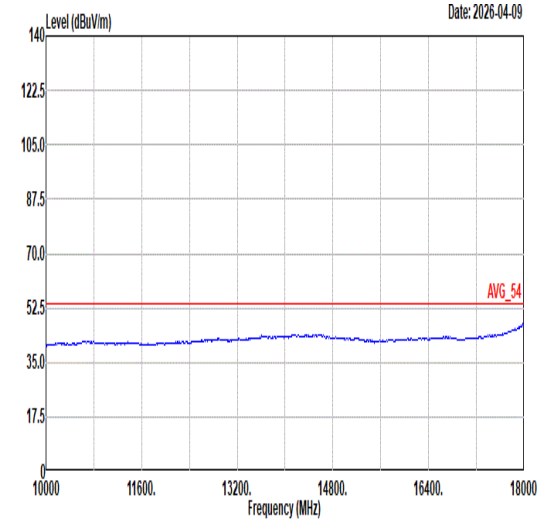
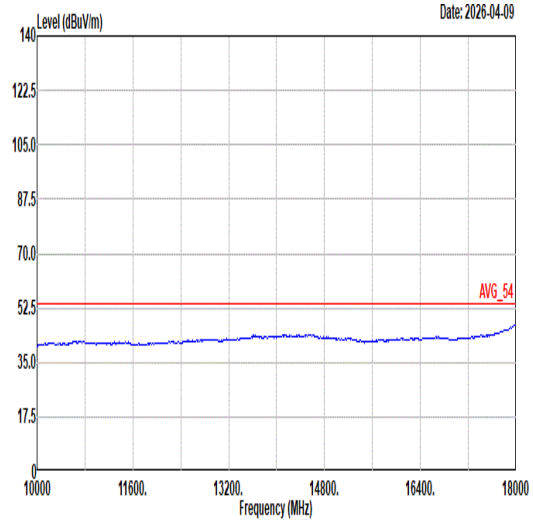
C2. Summary of each worse mode

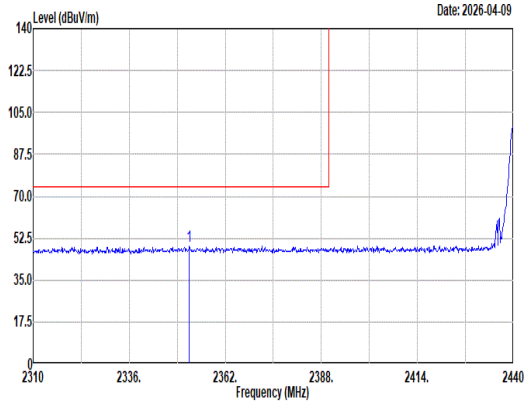
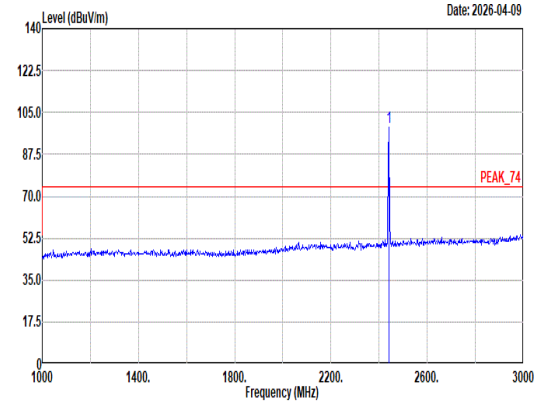
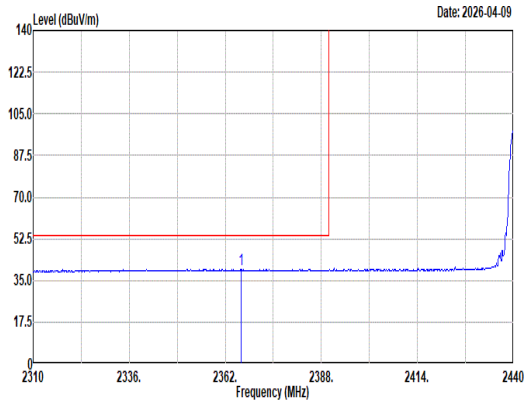
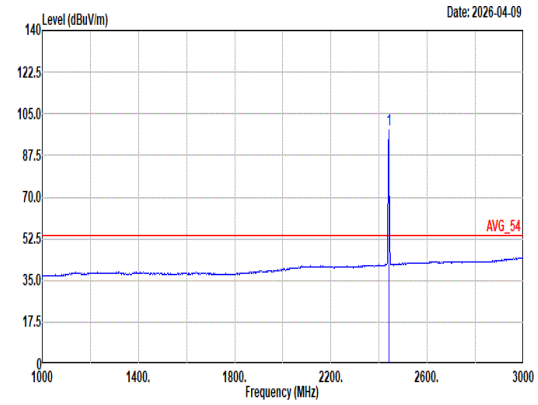
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Bluetooth-LE GSFK	00	2359.77	39.80	54.00	-14.20	V	Avg.	Pass	Band Edge
	Bluetooth-LE GSFK	00	4804.00	49.68	54.00	-4.32	H	Avg.	Pass	Harmonic
2	Bluetooth-LE GSFK	19	2499.16	40.36	54.00	-13.64	V	Avg.	Pass	Band Edge
	Bluetooth-LE GSFK	19	4880.00	49.39	54.00	-4.61	H	Avg.	Pass	Harmonic
3	Bluetooth-LE GSFK	39	2483.84	48.04	54.00	-5.96	H	Avg.	Pass	Band Edge
	Bluetooth-LE GSFK	39	4960.00	50.86	54.00	-3.14	H	Avg.	Pass	Harmonic
4	Bluetooth-LE GSFK	00	2360.42	40.86	54.00	-13.14	H	Avg.	Pass	Band Edge
	Bluetooth-LE GSFK	00	4804.00	48.72	54.00	-5.28	H	Avg.	Pass	Harmonic
5	Bluetooth-LE GSFK	19	2498.20	41.10	54.00	-12.90	V	Avg.	Pass	Band Edge
	Bluetooth-LE GSFK	19	4880.00	48.93	54.00	-5.07	H	Avg.	Pass	Harmonic
6	Bluetooth-LE GSFK	39	2483.62	73.56	74.00	-0.44	H	Peak	Pass	Band Edge
	Bluetooth-LE GSFK	39	4960.00	51.94	54.00	-2.06	H	Avg.	Pass	Harmonic
7	LF		904.94	37.52	46.00	-8.48	V	Peak	Pass	-
8	SHF		23803.00	41.64	74.00	-32.36	H	Peak	Pass	-

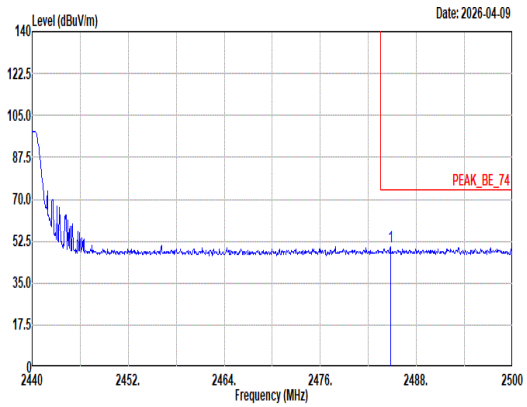
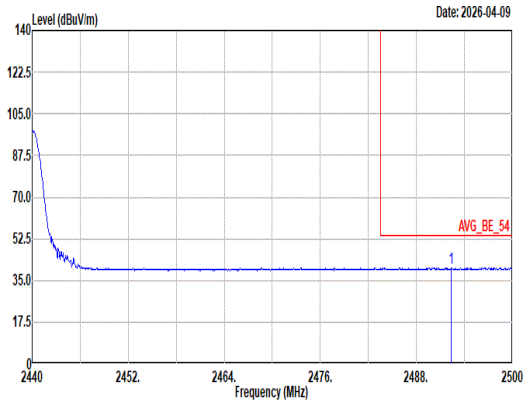
Mode	1	
	Band Edge	
	2400-2483.5_Bluetooth-LE GSFK_CH00_2402MHz	
ANT	0	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE_74 3m HF_9120D_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2352.14 50.05 74.00 -23.95 40.75 27.30 8.57 36.25 9.68 200 184 Peak	 Site : 03CH20-HY Condition: PEAK_74 3m HF_9120D_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 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 2402.00 96.76 ------ ------ 87.28 27.40 8.66 36.26 9.68 200 184 Peak
Avg	 Site : 03CH20-HY Condition: AVG_BE_54 3m HF_9120D_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:2.700kHz SWT:Auto 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 2354.62 39.67 54.00 -14.33 30.37 27.30 8.57 36.25 9.68 200 184 Average	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:2.700kHz SWT:Auto 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 2402.00 96.22 ------ ------ 86.74 27.40 8.66 36.26 9.68 200 184 Average

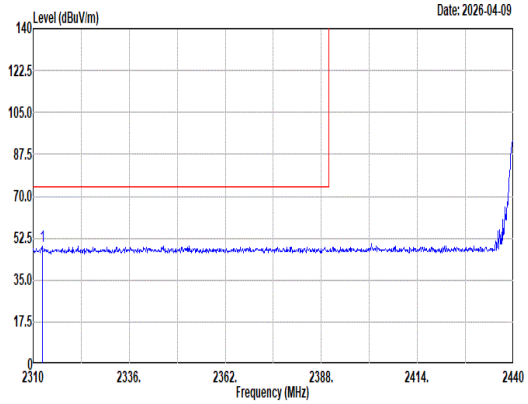
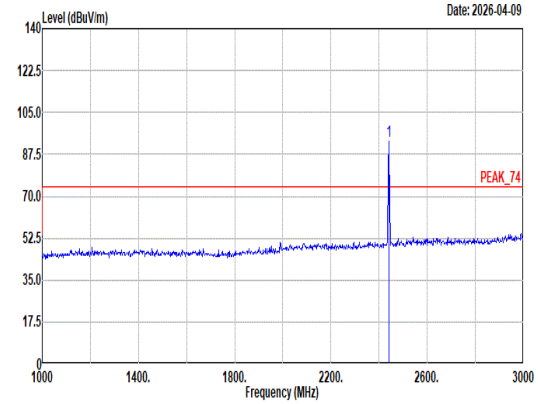
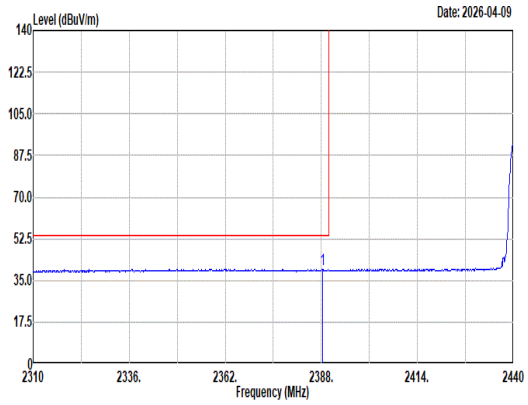
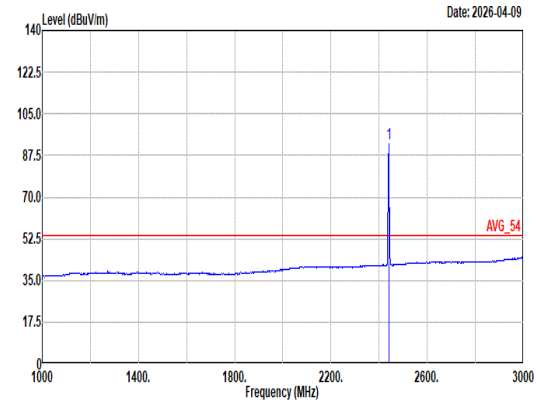
Mode	1	
	Band Edge	
	2400-2483.5_Bluetooth-LE GSFK_CH00_2402MHz	
ANT	0	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE_74 3m HF_9120D_02360_251105 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2384.34 49.83 74.00 -24.17 40.53 27.24 8.63 36.25 9.68 289 18 Peak	 Site : 03CH20-HY Condition: PEAK_74 3m HF_9120D_02360_251105 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 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 2402.00 93.24 ------ ------ 83.76 27.40 8.66 36.26 9.68 289 18 Peak
Avg	 Site : 03CH20-HY Condition: AVG_BE_54 3m HF_9120D_02360_251105 VERTICAL : RBW:1000.000kHz VBW:2.700kHz SWT:Auto 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 2359.77 39.80 54.00 -14.20 30.49 27.30 8.58 36.25 9.68 289 18 Average	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_251105 VERTICAL : RBW:1000.000kHz VBW:2.700kHz SWT:Auto 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 2402.00 92.67 ------ ------ 83.19 27.40 8.66 36.26 9.68 289 18 Average

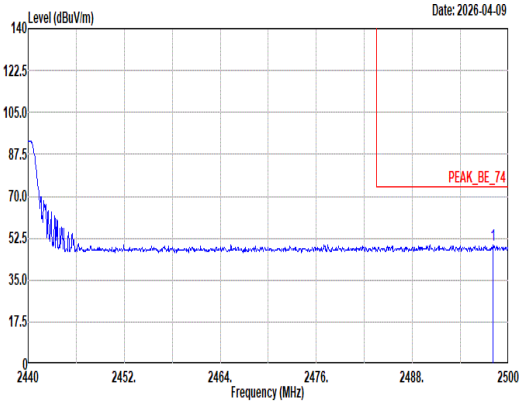
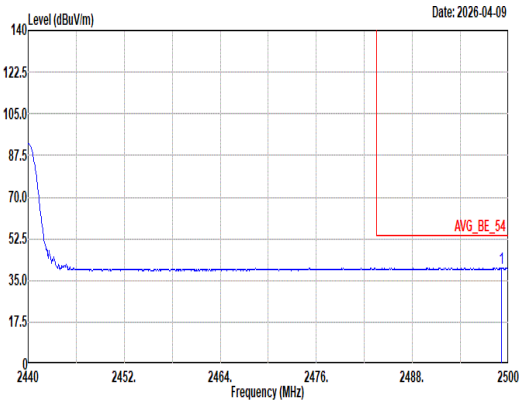
Mode	1	
	Harmonic	
	2400-2483.5_Bluetooth-LE GSFK_CH00_2402MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH20-HY Condition: PEAK_74 3m HF_9120D_02360_251105 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4804.00 52.14 74.00 -21.86 44.50 32.22 12.34 37.44 0.52 369 4 Peak 2 4804.00 49.68 54.00 -4.32 42.04 32.22 12.34 37.44 0.52 369 4 Average	 Site : 03CH20-HY Condition: PEAK_74 3m HF_9120D_02360_251105 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 4804.00 49.38 74.00 -24.62 41.74 32.22 12.34 37.44 0.52 105 295 Peak 2 4804.00 45.58 54.00 -8.42 37.94 32.22 12.34 37.44 0.52 105 295 Average

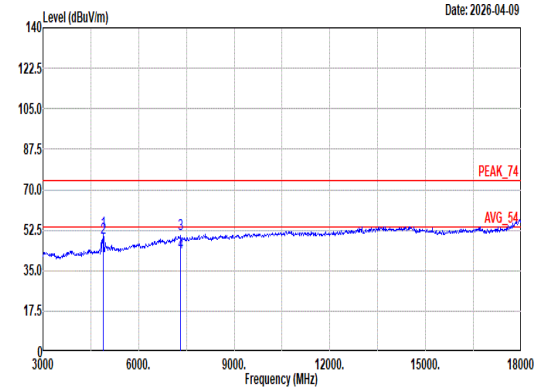
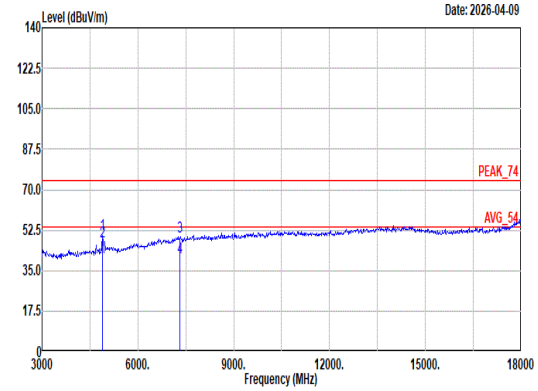
Mode	1	
	Harmonic	
	2400-2483.5_Bluetooth-LE GSFK_CH00_2402MHz	
ANT	0	
Pol.	Horizontal	Vertical
10G ~18G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_251105 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_251105 VERTICAL

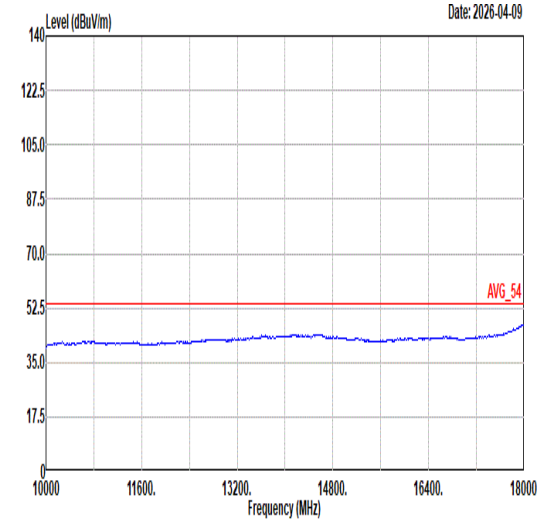
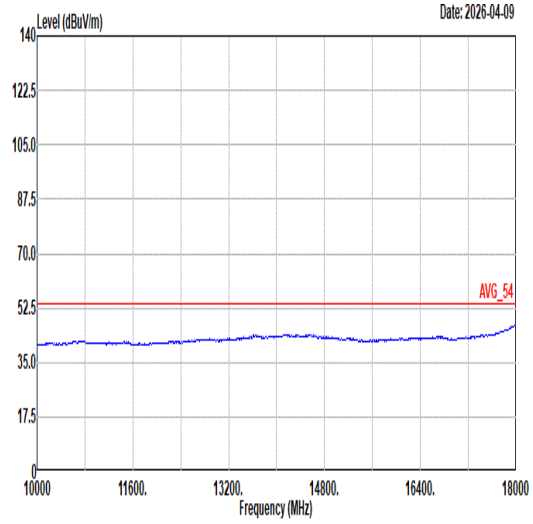
Mode	2	
	Band Edge - L	
	2400-2483.5_Bluetooth-LE GSFK_CH19_2440MHz	
ANT	0	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE_74 3m HF_9120D_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 2352.25 49.27 74.00 -24.73 39.97 27.30 8.57 36.25 9.68 269 187 Peak	 Site : 03CH20-HY Condition: PEAK_74 3m HF_9120D_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 2440.00 98.79 ------ ------ 89.13 27.50 8.74 36.26 9.68 269 187 Peak
Avg	 Site : 03CH20-HY Condition: AVG_BE_54 3m HF_9120D_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:2.700kHz SWT:Auto 1 2366.29 39.67 54.00 -14.33 30.35 27.30 8.59 36.25 9.68 269 187 Average	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:2.700kHz SWT:Auto 1 2440.00 98.30 ------ ------ 88.64 27.50 8.74 36.26 9.68 269 187 Average

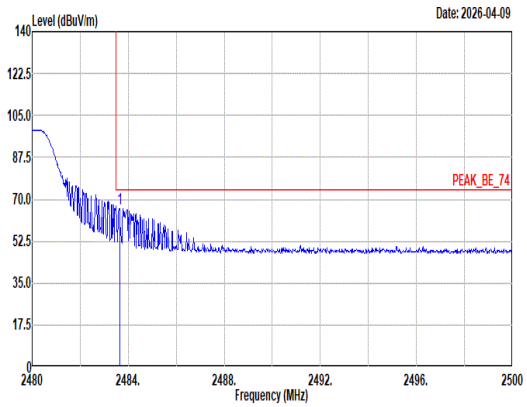
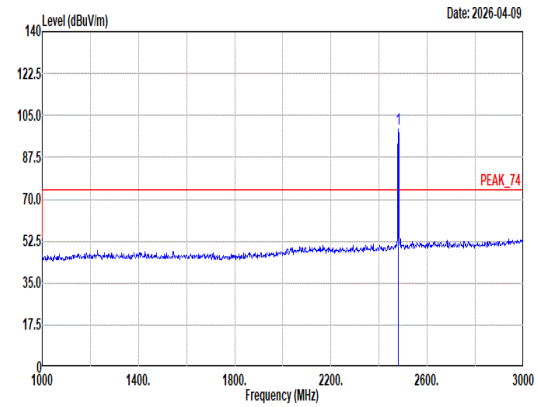
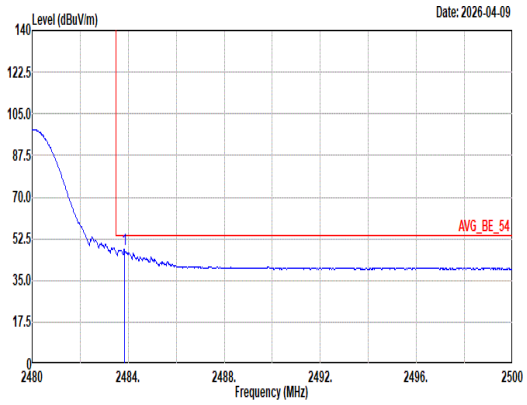
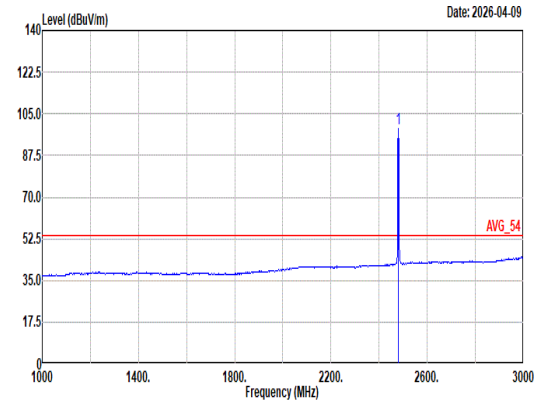
Mode	2	
	Band Edge - R	
	2400-2483.5_Bluetooth-LE GSFK_CH19_2440MHz	
ANT	0	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE_74 3m HF_9120D_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2484.76 50.43 74.00 -23.57 40.45 27.75 8.82 36.27 9.68 269 187 Peak	Blank
Avg	 Site : 03CH20-HY Condition: AVG_BE_54 3m HF_9120D_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:2.700kHz SWT:Auto 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 40.35 54.00 -13.65 30.30 27.80 8.84 36.27 9.68 269 187 Average	Blank

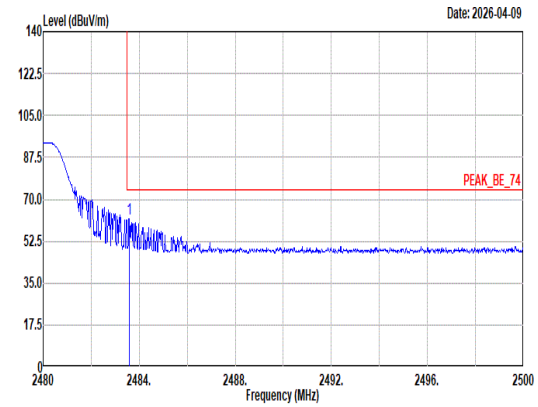
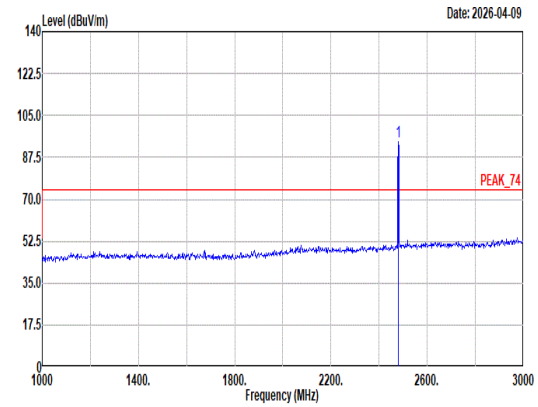
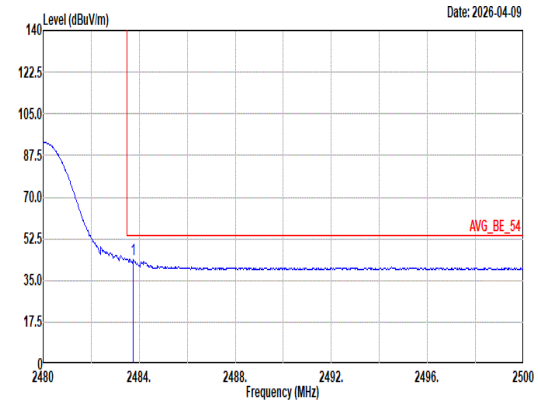
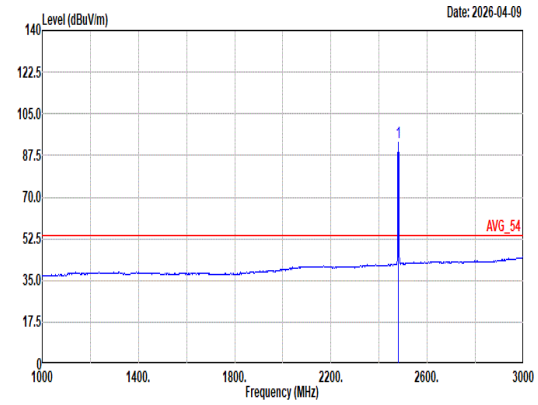
Mode	2	
	Band Edge - L	
	2400-2483.5_Bluetooth-LE GSFK_CH19_2440MHz	
ANT	0	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE_74 3m HF_9120D_02360_251105 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2312.47 49.22 74.00 -24.78 40.09 27.20 8.49 36.24 9.68 134 29 Peak	 Site : 03CH20-HY Condition: PEAK_74 3m HF_9120D_02360_251105 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 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 93.16 ------ ------ 83.50 27.50 8.74 36.26 9.68 134 29 Peak
Avg	 Site : 03CH20-HY Condition: AVG_BE_54 3m HF_9120D_02360_251105 VERTICAL : RBW:1000.000kHz VBW:2.700kHz SWT:Auto 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 2388.26 39.68 54.00 -14.32 30.33 27.28 8.64 36.25 9.68 134 29 Average	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_251105 VERTICAL : RBW:1000.000kHz VBW:2.700kHz SWT:Auto 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 92.61 ------ ------ 82.95 27.50 8.74 36.26 9.68 134 29 Average

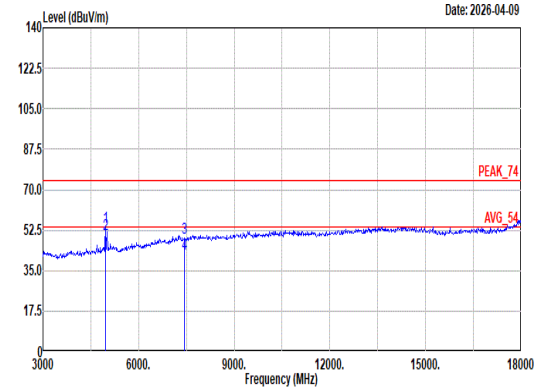
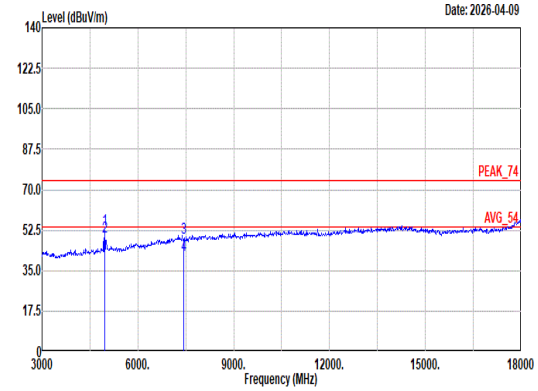
Mode	2	
	Band Edge - R	
	2400-2483.5_Bluetooth-LE GSFK_CH19_2440MHz	
ANT	0	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE_74 3m HF_9120D_02360_251105 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2498.02 49.68 74.00 -24.32 39.62 27.80 8.85 36.27 9.68 134 29 Peak	Blank
Avg	 Site : 03CH20-HY Condition: AVG_BE_54 3m HF_9120D_02360_251105 VERTICAL : RBW:1000.000kHz VBW:2.700kHz SWT:Auto 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 2499.16 40.36 54.00 -13.64 30.30 27.80 8.85 36.27 9.68 134 29 Average	Blank

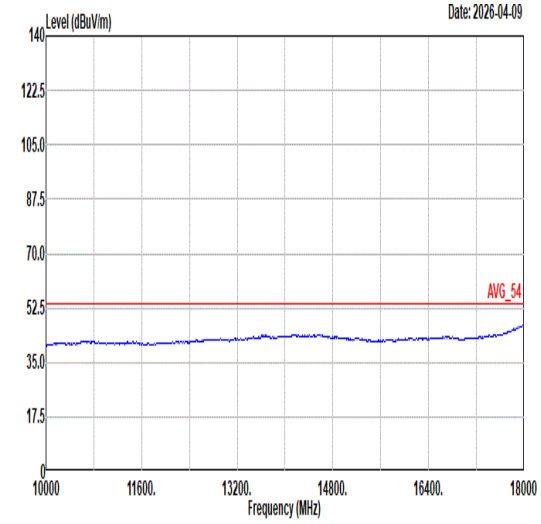
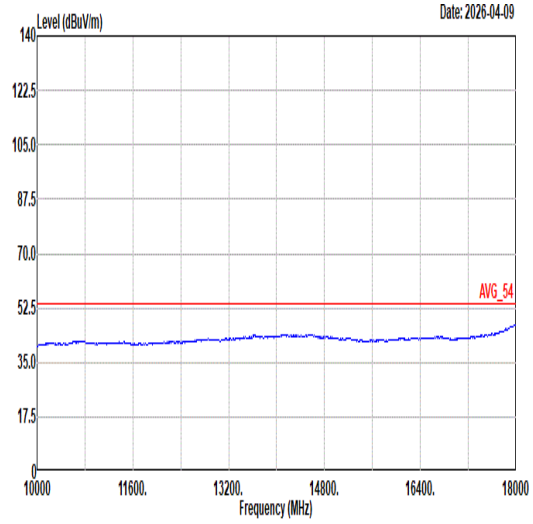
Mode	2	
	Harmonic	
	2400-2483.5_Bluetooth-LE GSFK_CH19_2440MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH20-HY Condition: PEAK_74 3m HF_9120D_02360_251105 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 4880.00 52.01 74.00 -21.99 43.91 32.62 12.46 37.49 0.51 341 9 Peak 2 4880.00 49.39 54.00 -4.61 41.29 32.62 12.46 37.49 0.51 341 9 Average 3 7320.00 50.69 74.00 -23.31 35.88 36.78 15.89 38.25 0.39 181 37 Peak 4 7320.00 42.97 54.00 -11.03 28.16 36.78 15.89 38.25 0.39 181 37 Average	 Site : 03CH20-HY Condition: PEAK_74 3m HF_9120D_02360_251105 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark 1 4880.00 50.95 74.00 -23.05 42.85 32.62 12.46 37.49 0.51 100 273 Peak 2 4880.00 47.32 54.00 -6.68 39.22 32.62 12.46 37.49 0.51 100 273 Average 3 7320.00 49.72 74.00 -24.28 34.91 36.78 15.89 38.25 0.39 300 310 Peak 4 7320.00 40.52 54.00 -13.48 25.71 36.78 15.89 38.25 0.39 300 310 Average

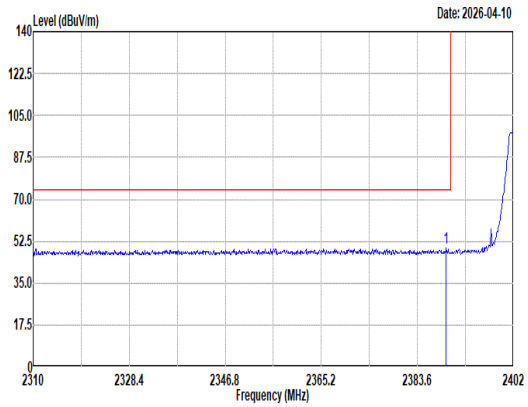
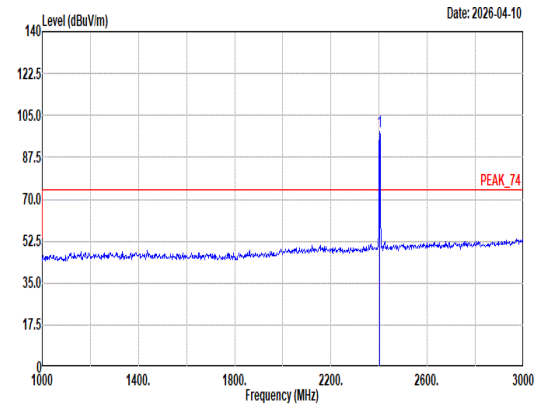
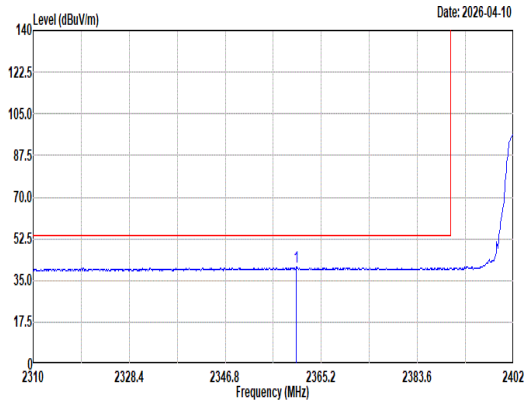
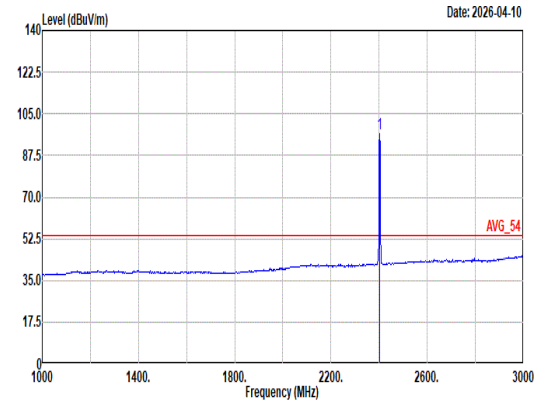
Mode	2	
	Harmonic	
	2400-2483.5_Bluetooth-LE GSFK_CH19_2440MHz	
ANT	0	
Pol.	Horizontal	Vertical
10G ~18G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_251105 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_251105 VERTICAL

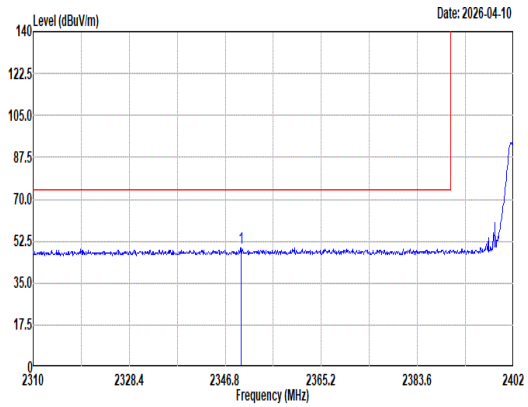
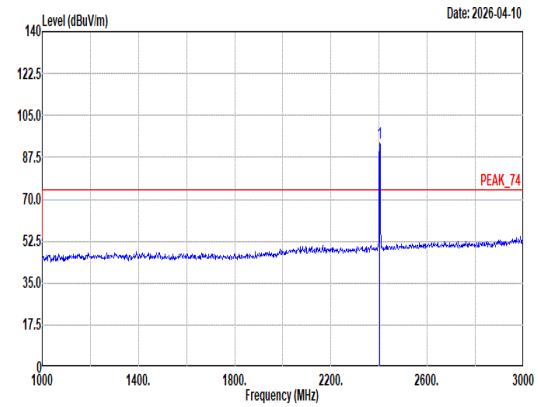
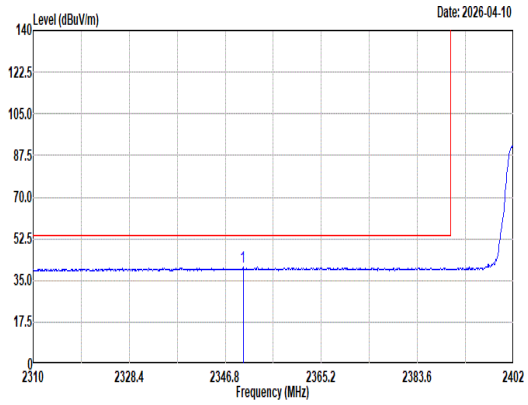
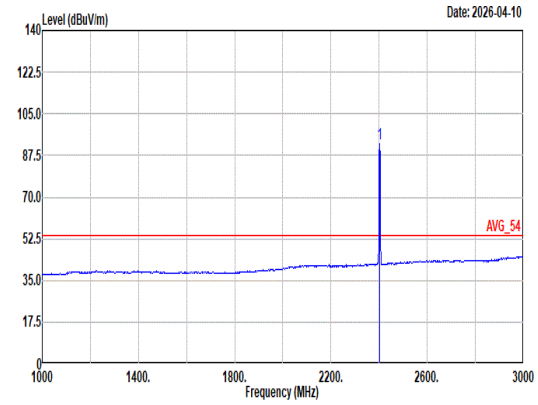
Mode	3	
	Band Edge	
	2400-2483.5_Bluetooth-LE GSFK_CH39_2480MHz	
ANT	0	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE_74 3m HF_9120D_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.64 66.27 74.00 -7.73 56.30 27.74 8.82 36.27 9.68 295 182 Peak	 Site : 03CH20-HY Condition: PEAK_74 3m HF_9120D_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 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 2480.00 99.21 ------ ------ 89.29 27.70 8.81 36.27 9.68 295 182 Peak
Avg	 Site : 03CH20-HY Condition: AVG_BE_54 3m HF_9120D_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:2.700kHz SWT:Auto 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 2483.84 48.04 54.00 -5.96 38.07 27.74 8.82 36.27 9.68 295 182 Average	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:2.700kHz SWT:Auto 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 2480.00 98.67 ------ ------ 88.75 27.70 8.81 36.27 9.68 295 182 Average

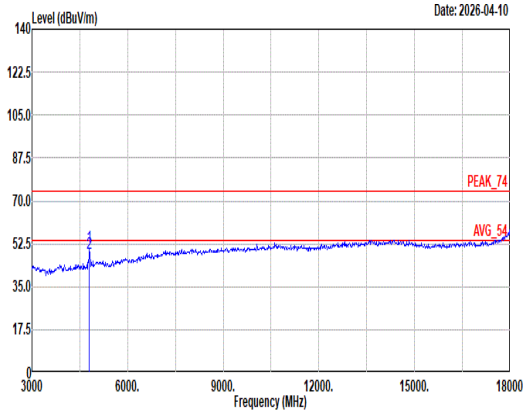
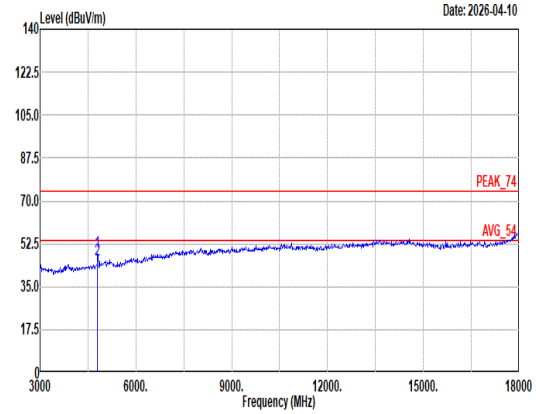
Mode	3	
	Band Edge	
	2400-2483.5_Bluetooth-LE GSFK_CH39_2480MHz	
ANT	0	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE_74 3m HF_9120D_02360_251105 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.58 61.87 74.00 -12.13 51.90 27.74 8.82 36.27 9.68 100 143 Peak	 Site : 03CH20-HY Condition: PEAK_74 3m HF_9120D_02360_251105 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 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 2480.00 93.78 ------ ------ 83.86 27.70 8.81 36.27 9.68 100 143 Peak
Avg	 Site : 03CH20-HY Condition: AVG_BE_54 3m HF_9120D_02360_251105 VERTICAL : RBW:1000.000kHz VBW:2.700kHz SWT:Auto 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 2483.76 43.76 54.00 -10.24 33.79 27.74 8.82 36.27 9.68 100 143 Average	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_251105 VERTICAL : RBW:1000.000kHz VBW:2.700kHz SWT:Auto 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 2480.00 93.22 ------ ------ 83.30 27.70 8.81 36.27 9.68 100 143 Average

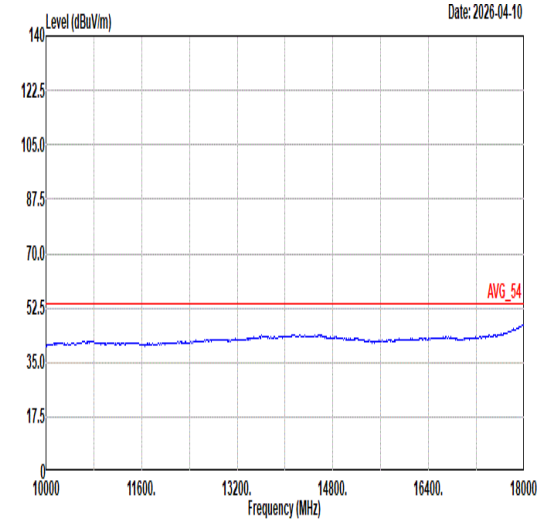
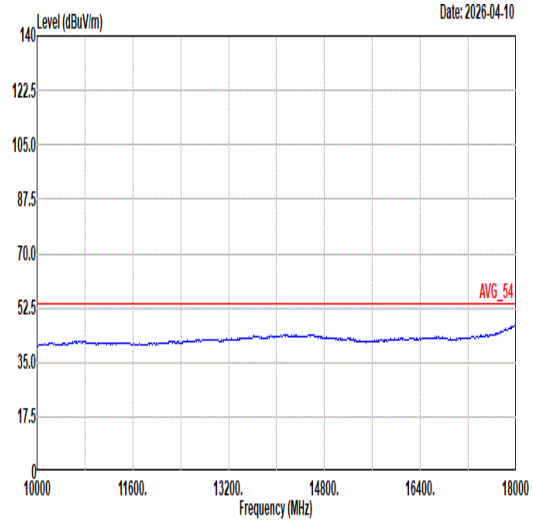
Mode	3	
	Harmonic	
	2400-2483.5_Bluetooth-LE GSFK_CH39_2480MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH20-HY Condition: PEAK_74 3m HF_9120D_02360_251105 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4960.00 53.63 74.00 -20.37 45.02 33.06 12.59 37.54 0.50 100 357 Peak 2 4960.00 50.86 54.00 -3.14 42.25 33.06 12.59 37.54 0.50 100 357 Average 3 7440.00 49.09 74.00 -24.91 34.27 36.48 16.31 38.38 0.41 200 124 Peak 4 7440.00 42.07 54.00 -11.93 27.25 36.48 16.31 38.38 0.41 200 124 Average	 Site : 03CH20-HY Condition: PEAK_74 3m HF_9120D_02360_251105 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 4960.00 52.88 74.00 -21.12 44.27 33.06 12.59 37.54 0.50 150 278 Peak 2 4960.00 49.45 54.00 -4.55 40.84 33.06 12.59 37.54 0.50 150 278 Average 3 7440.00 49.17 74.00 -24.83 34.35 36.48 16.31 38.38 0.41 300 203 Peak 4 7440.00 41.59 54.00 -12.41 26.77 36.48 16.31 38.38 0.41 300 203 Average

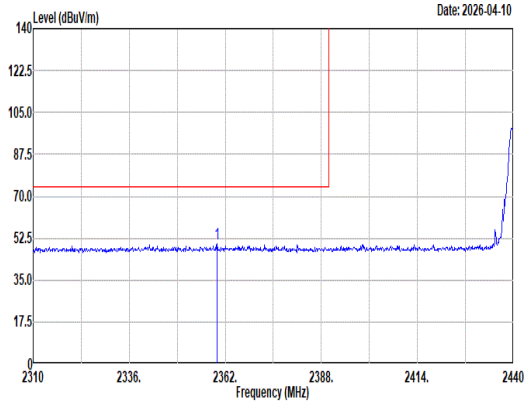
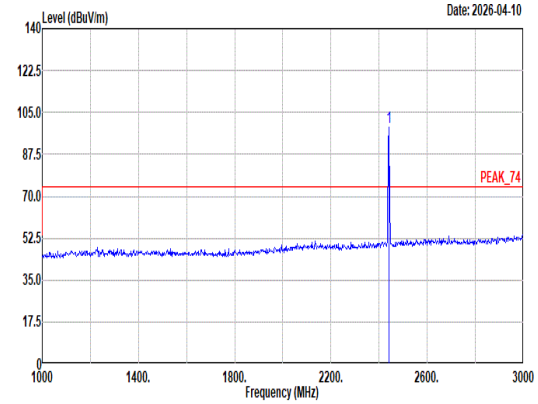
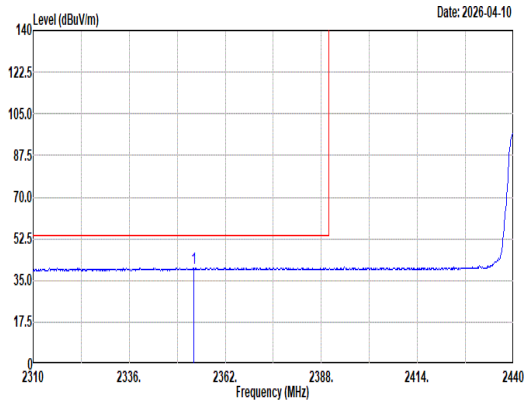
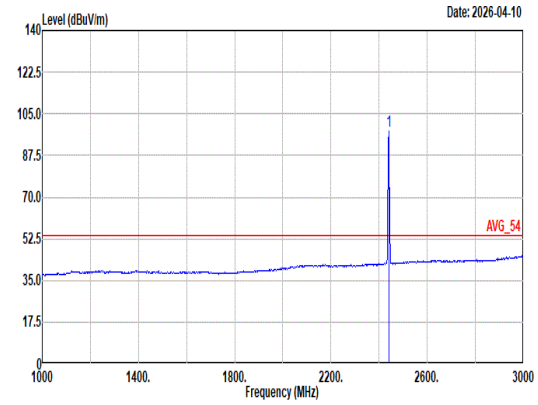
Mode	3	
	Harmonic	
	2400-2483.5_Bluetooth-LE GSFK_CH39_2480MHz	
ANT	0	
Pol.	Horizontal	Vertical
10G ~18G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_251105 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_251105 VERTICAL

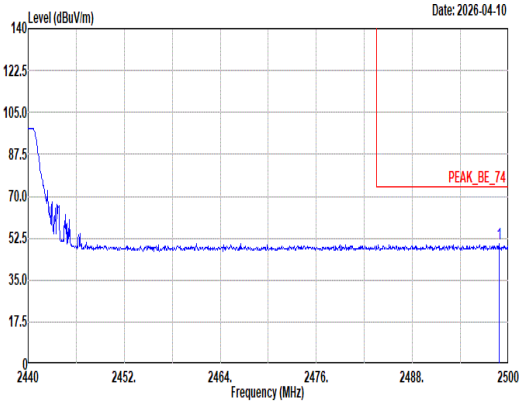
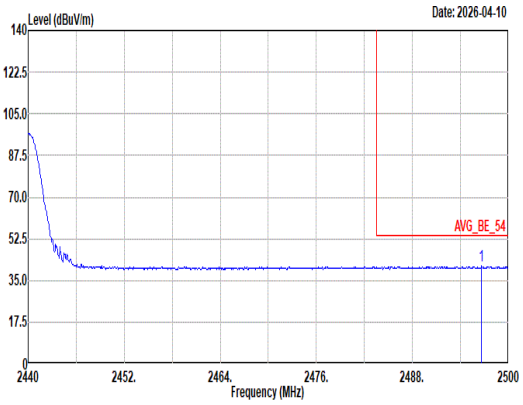
Mode	4	
	Band Edge	
	2400-2483.5_Bluetooth-LE GSFK _CH00_2402MHz	
ANT	0	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE_74 3m HF_9120D_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2389.12 49.41 74.00 -24.59 40.05 27.29 8.64 36.25 9.68 207 201 Peak	 Site : 03CH20-HY Condition: PEAK_74 3m HF_9120D_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 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 2402.00 98.15 ------ ------ 88.67 27.40 8.66 36.26 9.68 207 201 Peak
Avg	 Site : 03CH20-HY Condition: AVG_BE_54 3m HF_9120D_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:5.100kHz SWT:Auto 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 2360.42 40.86 54.00 -13.14 31.55 27.30 8.58 36.25 9.68 207 201 Average	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:5.100kHz SWT:Auto 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 2402.00 96.88 ------ ------ 87.40 27.40 8.66 36.26 9.68 207 201 Average

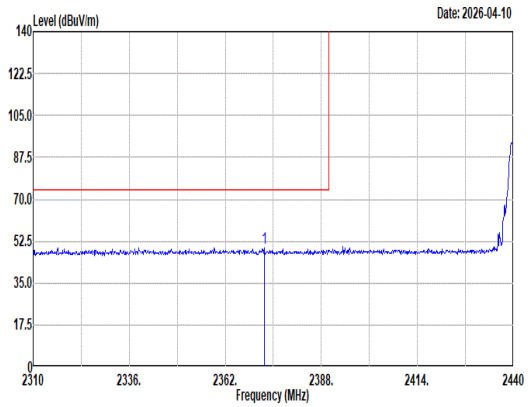
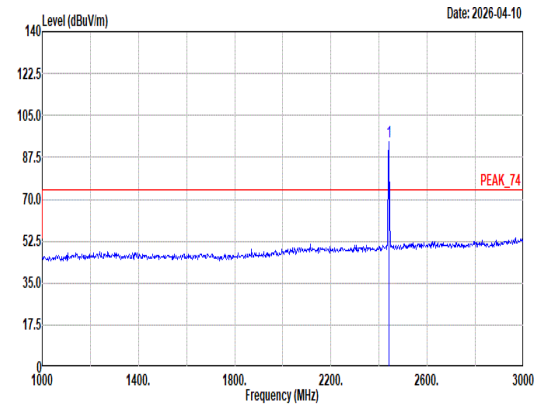
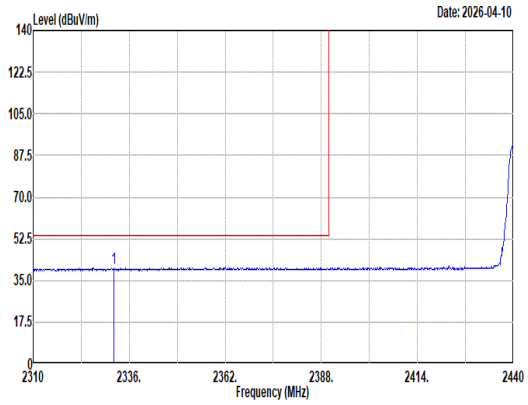
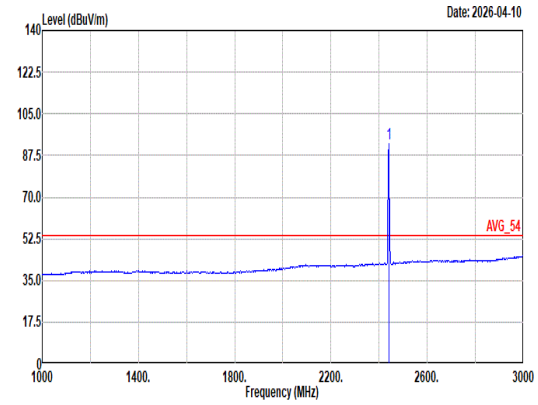
Mode	4	
	Band Edge	
	2400-2483.5_Bluetooth-LE GSFK _CH00_2402MHz	
ANT	0	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE_74 3m HF_9120D_02360_251105 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2349.84 49.92 74.00 -24.08 40.63 27.30 8.56 36.25 9.68 300 36 Peak	 Site : 03CH20-HY Condition: PEAK_74 3m HF_9120D_02360_251105 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 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 2402.00 93.76 ------ ------ 84.28 27.40 8.66 36.26 9.68 300 36 Peak
Avg	 Site : 03CH20-HY Condition: AVG_BE_54 3m HF_9120D_02360_251105 VERTICAL : RBW:1000.000kHz VBW:5.100kHz SWT:Auto 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 2350.20 40.63 54.00 -13.37 31.34 27.30 8.56 36.25 9.68 300 36 Average	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_251105 VERTICAL : RBW:1000.000kHz VBW:5.100kHz SWT:Auto 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 2402.00 92.42 ------ ------ 82.94 27.40 8.66 36.26 9.68 300 36 Average

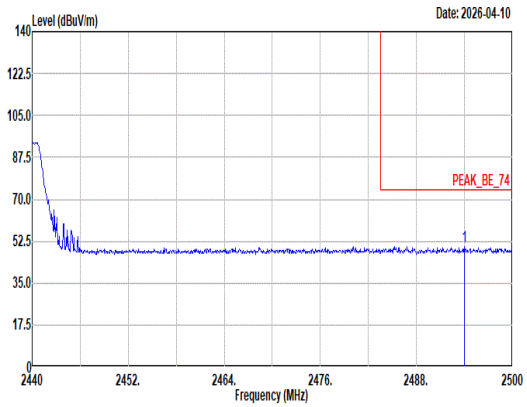
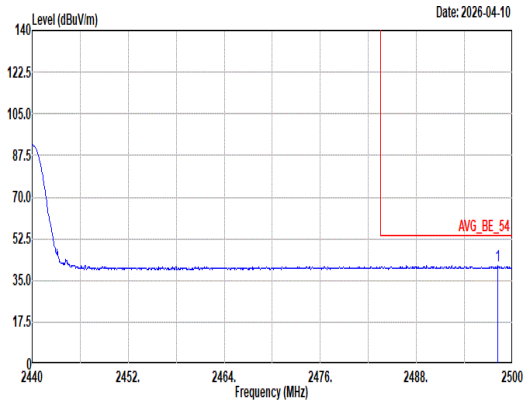
Mode	4	
	Harmonic	
	2400-2483.5_Bluetooth-LE GSFK _CH00_2402MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH20-HY Condition: PEAK_74 3m HF_9120D_02360_251105 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4804.00 51.01 74.00 -22.99 43.37 32.22 12.34 37.44 0.52 256 40 Peak 2 4804.00 48.72 54.00 -5.28 41.08 32.22 12.34 37.44 0.52 256 40 Average	 Site : 03CH20-HY Condition: PEAK_74 3m HF_9120D_02360_251105 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 4804.00 49.38 74.00 -24.62 41.74 32.22 12.34 37.44 0.52 100 119 Peak 2 4804.00 46.16 54.00 -7.84 38.52 32.22 12.34 37.44 0.52 100 119 Average

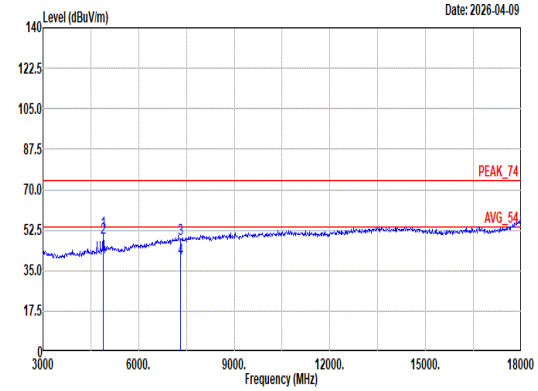
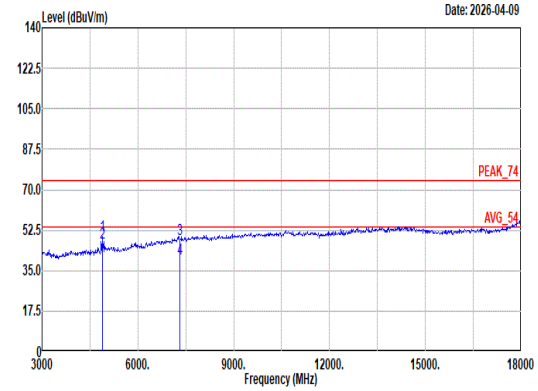
Mode	4	
	Harmonic	
	2400-2483.5_Bluetooth-LE GSFK _CH00_2402MHz	
ANT	0	
Pol.	Horizontal	Vertical
10G ~18G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_251105 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_251105 VERTICAL

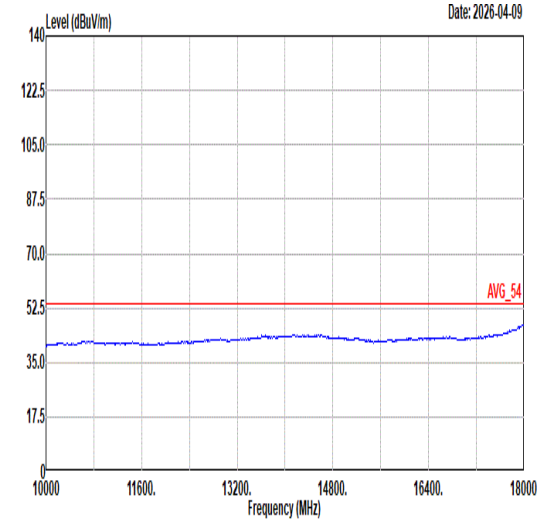
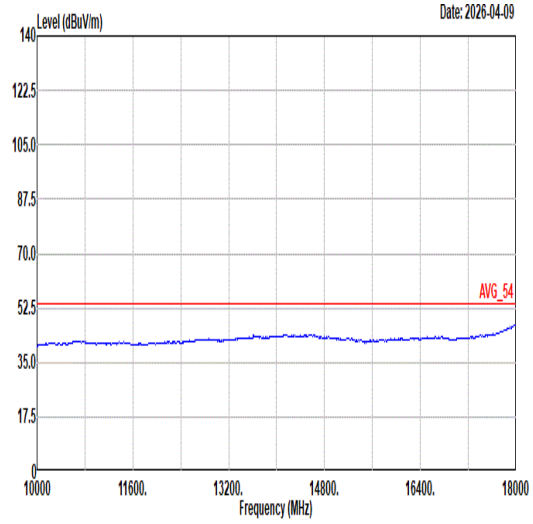
Mode	5	
	Band Edge - L	
	2400-2483.5_Bluetooth-LE GSFK _CH19_2440MHz	
ANT	0	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE_74 3m HF_9120D_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2359.79 49.95 74.00 -24.05 40.64 27.30 8.58 36.25 9.68 300 176 Peak	 Site : 03CH20-HY Condition: PEAK_74 3m HF_9120D_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 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 98.74 ------ ------ 89.08 27.50 8.74 36.26 9.68 300 176 Peak
Avg	 Site : 03CH20-HY Condition: AVG_BE_54 3m HF_9120D_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:5.100kHz SWT:Auto 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 2353.55 40.40 54.00 -13.60 31.10 27.30 8.57 36.25 9.68 300 176 Average	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:5.100kHz SWT:Auto 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 97.47 ------ ------ 87.81 27.50 8.74 36.26 9.68 300 176 Average

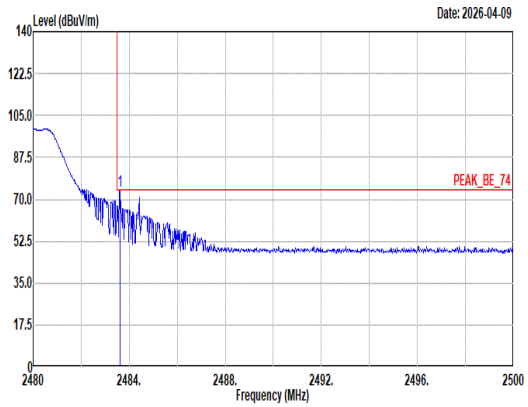
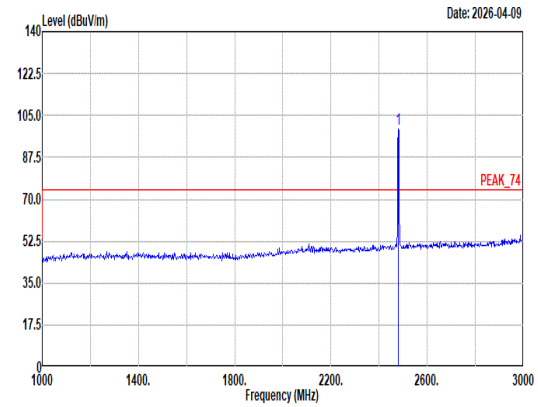
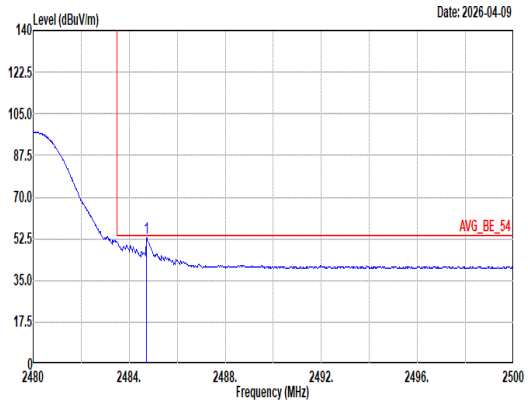
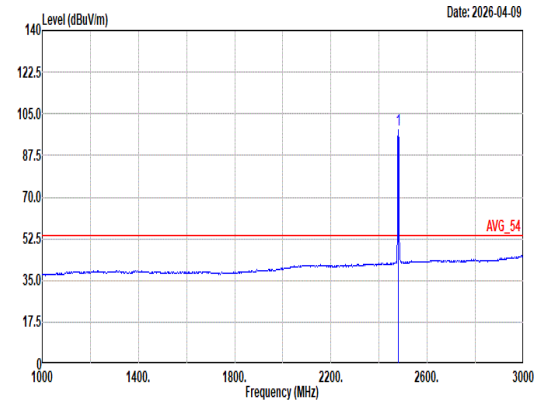
Mode	5	
	Band Edge - R	
	2400-2483.5_Bluetooth-LE GSFK _CH19_2440MHz	
ANT	0	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE_74 3m HF_9120D_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2498.80 49.95 74.00 -24.05 39.89 27.80 8.85 36.27 9.68 300 176 Peak	Blank
Avg	 Site : 03CH20-HY Condition: AVG_BE_54 3m HF_9120D_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:5.100kHz SWT:Auto 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 2496.64 41.00 54.00 -13.00 30.95 27.80 8.84 36.27 9.68 300 176 Average	Blank

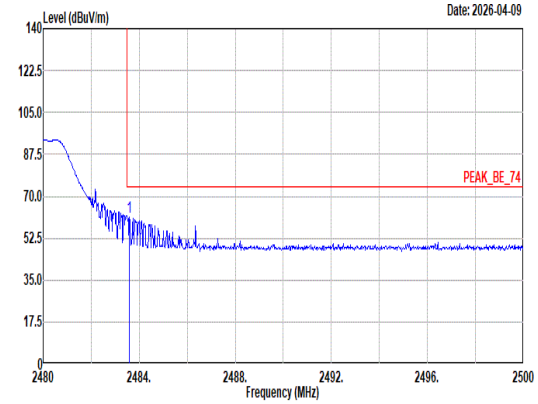
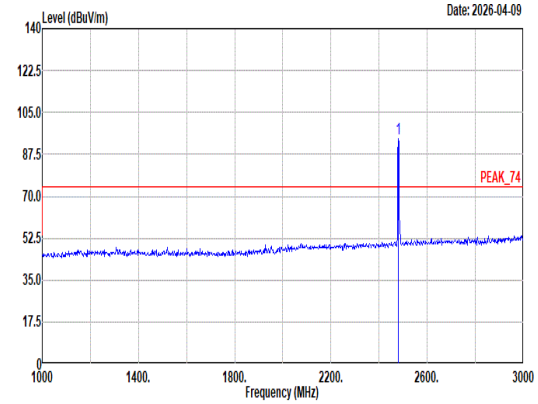
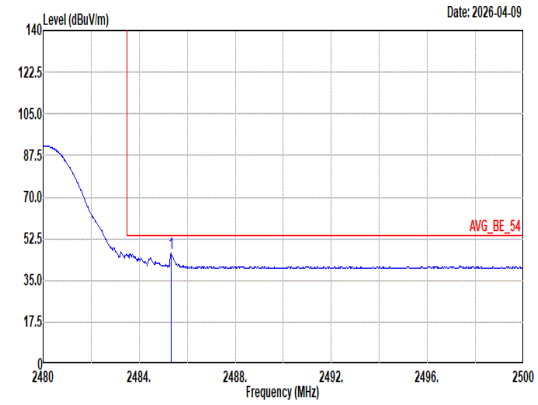
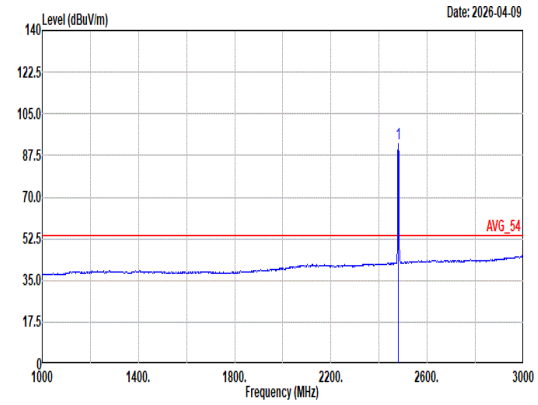
Mode	5	
	Band Edge - L	
	2400-2483.5_Bluetooth-LE GSFK _CH19_2440MHz	
ANT	0	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE_74 3m HF_9120D_02360_251105 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2372.53 49.71 74.00 -24.29 40.40 27.27 8.61 36.25 9.68 115 142 Peak	 Site : 03CH20-HY Condition: PEAK_74 3m HF_9120D_02360_251105 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 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 93.89 ------ ------ 84.23 27.50 8.74 36.26 9.68 115 142 Peak
Avg	 Site : 03CH20-HY Condition: AVG_BE_54 3m HF_9120D_02360_251105 VERTICAL : RBW:1000.000kHz VBW:5.100kHz SWT:Auto 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 2331.84 40.36 54.00 -13.64 31.20 27.20 8.53 36.25 9.68 115 142 Average	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_251105 VERTICAL : RBW:1000.000kHz VBW:5.100kHz SWT:Auto 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 92.58 ------ ------ 82.92 27.50 8.74 36.26 9.68 115 142 Average

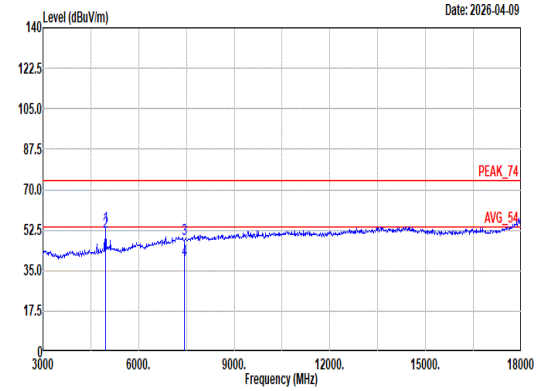
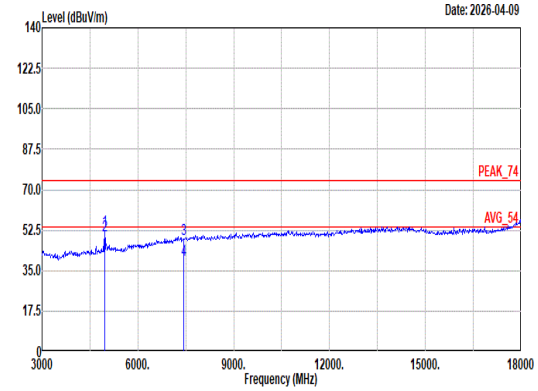
Mode	5	
	Band Edge - R	
	2400-2483.5_Bluetooth-LE GSFK _CH19_2440MHz	
ANT	0	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE_74 3m HF_9120D_02360_251105 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2494.00 50.12 74.00 -23.88 40.07 27.80 8.84 36.27 9.68 115 142 Peak	Blank
Avg	 Site : 03CH20-HY Condition: AVG_BE_54 3m HF_9120D_02360_251105 VERTICAL : RBW:1000.000kHz VBW:5.100kHz SWT:Auto 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 2498.20 41.10 54.00 -12.90 31.04 27.80 8.85 36.27 9.68 115 142 Average	Blank

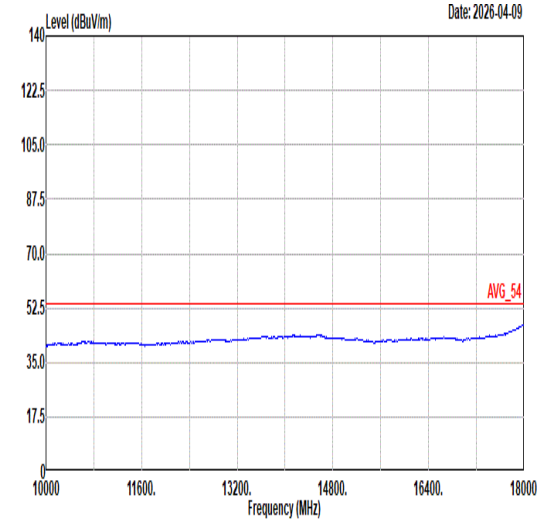
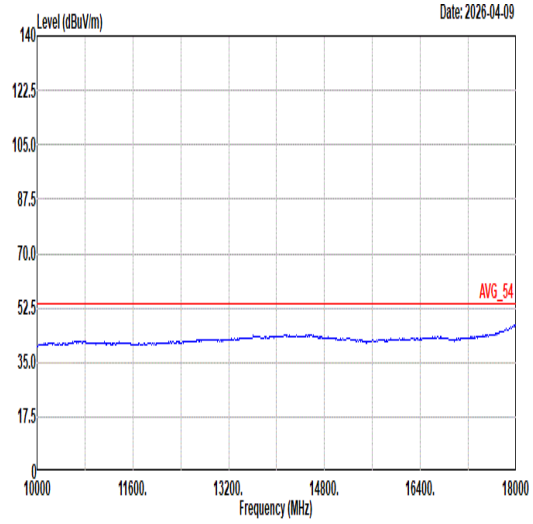
Mode	5	
	Harmonic	
	2400-2483.5_Bluetooth-LE GSFK _CH19_2440MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH20-HY Condition: PEAK_74 3m HF_9120D_02360_251105 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4880.00 51.57 74.00 -22.43 43.47 32.62 12.46 37.49 0.51 100 12 Peak 2 4880.00 48.93 54.00 -5.07 40.83 32.62 12.46 37.49 0.51 100 12 Average 3 7320.00 48.61 74.00 -25.39 33.80 36.78 15.89 38.25 0.39 200 204 Peak 4 7320.00 40.27 54.00 -13.73 25.46 36.78 15.89 38.25 0.39 200 204 Average	 Site : 03CH20-HY Condition: PEAK_74 3m HF_9120D_02360_251105 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 4880.00 50.26 74.00 -23.74 42.16 32.62 12.46 37.49 0.51 177 277 Peak 2 4880.00 46.82 54.00 -7.18 38.72 32.62 12.46 37.49 0.51 177 277 Average 3 7320.00 48.84 74.00 -25.16 34.03 36.78 15.89 38.25 0.39 400 74 Peak 4 7320.00 40.34 54.00 -13.66 25.53 36.78 15.89 38.25 0.39 400 74 Average

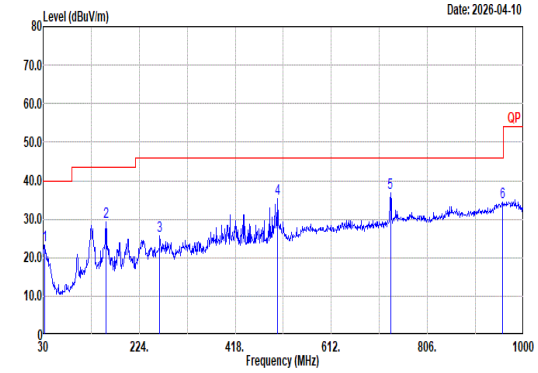
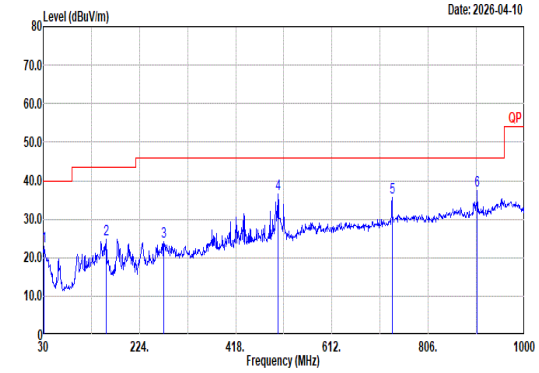
Mode	5	
	Harmonic	
	2400-2483.5_Bluetooth-LE GSFK _CH19_2440MHz	
ANT	0	
Pol.	Horizontal	Vertical
10G ~18G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_251105 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_251105 VERTICAL

Mode	6	
	Band Edge	
	2400-2483.5_Bluetooth-LE GSFK_CH39_2480MHz	
ANT	0	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE_74 3m HF_9120D_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 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 2483.62 73.56 74.00 -0.44 63.59 27.74 8.82 36.27 9.68 294 202 Peak	 Site : 03CH20-HY Condition: PEAK_74 3m HF_9120D_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 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 2480.00 99.53 ------ ------ 89.61 27.70 8.81 36.27 9.68 294 202 Peak
Avg	 Site : 03CH20-HY Condition: AVG_BE_54 3m HF_9120D_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:5.100kHz SWT:Auto 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 2484.72 52.66 54.00 -1.34 42.68 27.75 8.82 36.27 9.68 294 202 Average	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_251105 HORIZONTAL : RBW:1000.000kHz VBW:5.100kHz SWT:Auto 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 2480.00 98.26 ------ ------ 88.34 27.70 8.81 36.27 9.68 294 202 Average

Mode	6	
	Band Edge	
	2400-2483.5_Bluetooth-LE GSFK_CH39_2480MHz	
ANT	0	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition: PEAK_BE_74 3m HF_9120D_02360_251105 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 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 2483.60 61.05 74.00 -12.95 51.08 27.74 8.82 36.27 9.68 100 143 Peak	 Site : 03CH20-HY Condition: PEAK_74 3m HF_9120D_02360_251105 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 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 2480.00 93.78 ------ ------ 83.86 27.70 8.81 36.27 9.68 100 143 Peak
Avg	 Site : 03CH20-HY Condition: AVG_BE_54 3m HF_9120D_02360_251105 VERTICAL : RBW:1000.000kHz VBW:5.100kHz SWT:Auto 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 2485.32 46.31 54.00 -7.69 36.33 27.75 8.82 36.27 9.68 100 143 Average	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_251105 VERTICAL : RBW:1000.000kHz VBW:5.100kHz SWT:Auto 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 2480.00 92.49 ------ ------ 82.57 27.70 8.81 36.27 9.68 100 143 Average

Mode	6	
	Harmonic	
	2400-2483.5_Bluetooth-LE GSFK_CH39_2480MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH20-HY Condition: PEAK_74 3m HF_9120D_02360_251105 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 4960.00 54.09 74.00 -19.91 45.48 33.06 12.59 37.54 0.50 100 8 Peak 2 4960.00 51.94 54.00 -2.06 43.33 33.06 12.59 37.54 0.50 100 8 Average 3 7440.00 48.78 74.00 -25.22 33.96 36.48 16.31 38.38 0.41 100 102 Peak 4 7440.00 39.83 54.00 -14.17 25.01 36.48 16.31 38.38 0.41 100 102 Average	 Site : 03CH20-HY Condition: PEAK_74 3m HF_9120D_02360_251105 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 4960.00 52.44 74.00 -21.56 43.83 33.06 12.59 37.54 0.50 400 325 Peak 2 4960.00 50.28 54.00 -3.72 41.67 33.06 12.59 37.54 0.50 400 325 Average 3 7440.00 48.58 74.00 -25.42 33.76 36.48 16.31 38.38 0.41 100 60 Peak 4 7440.00 39.87 54.00 -14.13 25.05 36.48 16.31 38.38 0.41 100 60 Average

Mode	6	
	Harmonic	
	2400-2483.5_Bluetooth-LE GSFK_CH39_2480MHz	
ANT	0	
Pol.	Horizontal	Vertical
10G ~18G Avg	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_251105 HORIZONTAL	 Site : 03CH20-HY Condition: AVG_54 3m HF_9120D_02360_251105 VERTICAL

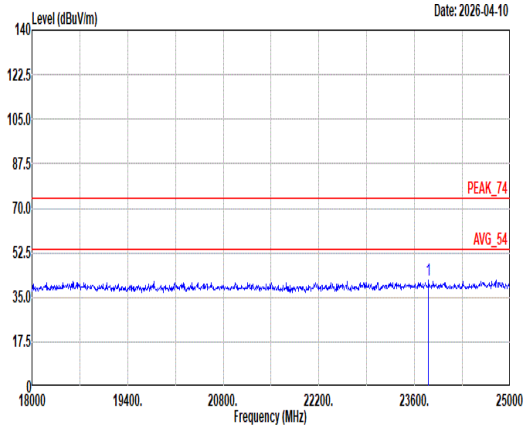
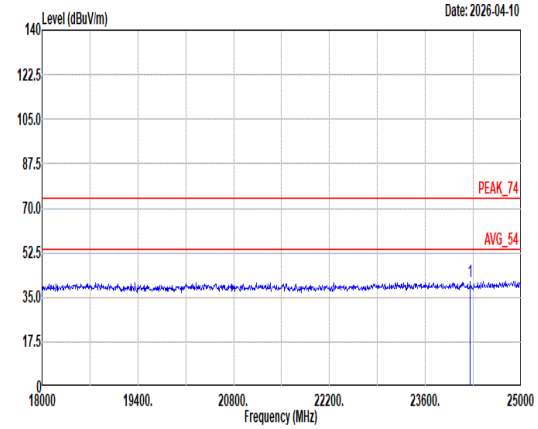
Mode	7	
	LF	
	2400-2483.5_Bluetooth-LE GSFK_CH39_2480MHz	
ANT	0	
Pol.	Horizontal	Vertical
QP/ Peak		

Site : 03CH20-HY
Condition: QP 3m Bilog_55606 & 08_251126 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	33.88	23.39	40.00	-16.61	35.64	22.47	0.96	35.80	0.12	--	--	Peak
2	157.07	29.22	43.50	-14.28	45.54	16.97	2.16	35.60	0.15	--	--	Peak
3	265.71	25.65	46.00	-20.35	38.36	19.74	2.83	35.37	0.09	--	--	Peak
4	503.36	35.32	46.00	-10.68	42.02	24.06	3.91	34.76	0.09	--	--	Peak
5	731.31	36.76	46.00	-9.24	38.11	27.68	4.74	33.98	0.21	--	--	Peak
6	958.29	34.40	46.00	-11.60	30.93	30.89	5.42	33.15	0.31	--	--	Peak

Site : 03CH20-HY
Condition: QP 3m Bilog_55606 & 08_251126 VERTICAL

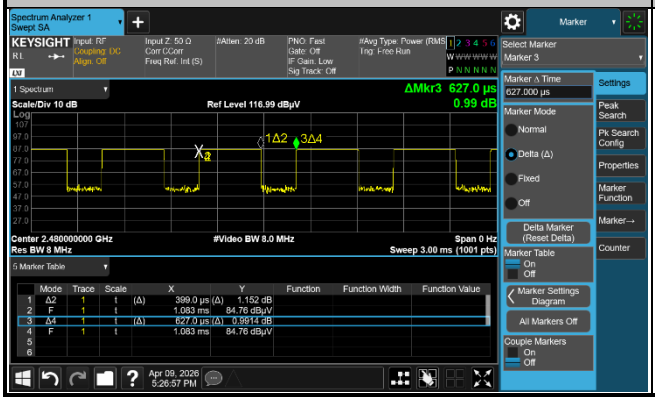
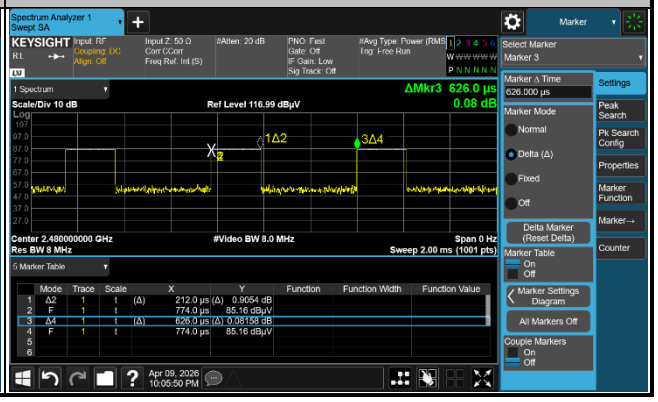
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	30.97	22.97	40.00	-17.03	33.74	23.98	0.92	35.81	0.14	--	--	Peak
2	157.07	24.85	43.50	-18.65	41.17	16.97	2.16	35.60	0.15	--	--	Peak
3	272.50	24.09	46.00	-21.91	37.71	18.77	2.87	35.35	0.09	--	--	Peak
4	503.36	36.52	46.00	-9.48	43.22	24.06	3.91	34.76	0.09	--	--	Peak
5	733.25	35.72	46.00	-10.28	36.97	27.76	4.75	33.97	0.21	--	--	Peak
6	904.94	37.52	46.00	-8.48	36.31	29.00	5.34	33.34	0.21	--	--	Peak

Mode	8	
	SHF	
	2400-2483.5_Bluetooth-LE GSFK_CH39_2480MHz	
ANT	0	
Pol.	Horizontal	Vertical
Peak	 Site : 03CH20-HY Condition: PEAK_74 1m BBHA9170_1225_250702 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 23803.00 41.64 74.00 -32.36 43.73 39.00 28.55 60.10 -9.54 -- -- Peak	 Site : 03CH20-HY Condition: PEAK_74 1m BBHA9170_1225_250702 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 24258.00 41.34 74.00 -32.66 42.88 39.22 28.83 60.05 -9.54 -- -- Peak

Appendix D. Duty Cycle Plots

Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting
Bluetooth - LE for 1Mbps	63.64	399	2.51	2.7kHz
Bluetooth - LE for 2Mbps	33.87	212	4.72	5.1kHz

Bluetooth - LE for 1Mbps



Bluetooth - LE for 2Mbps