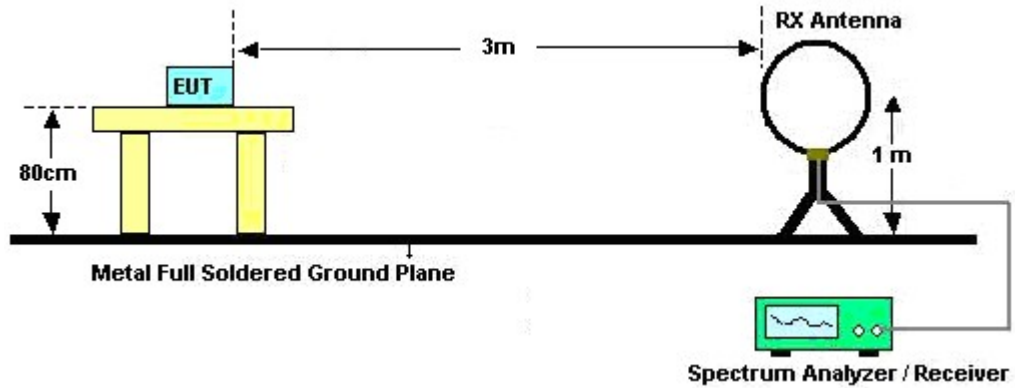
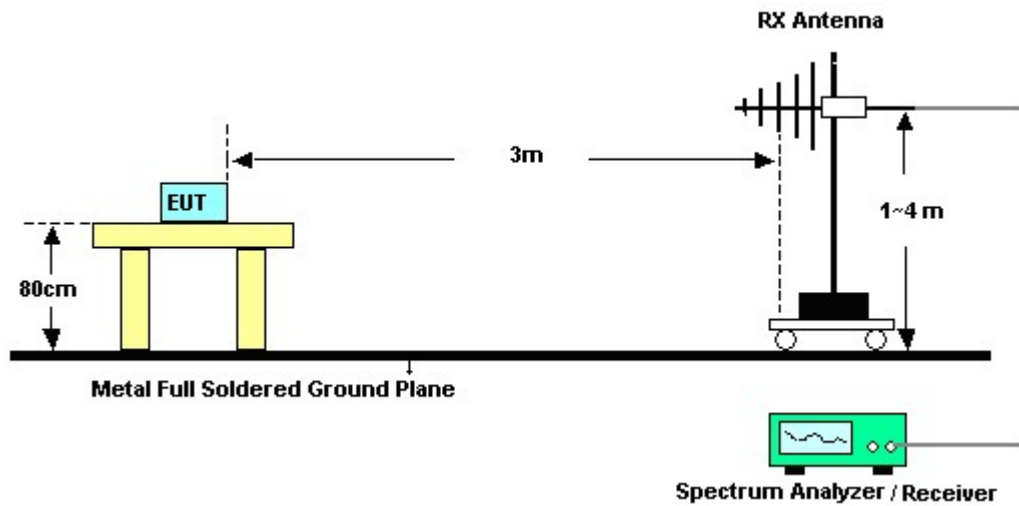


3.5.4 Test Setup

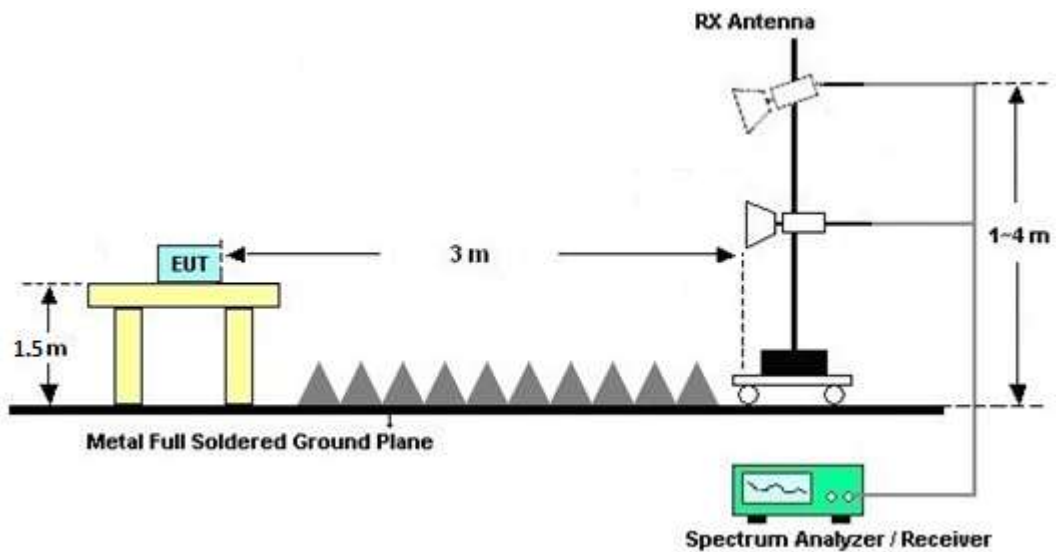
For radiated test below 30MHz



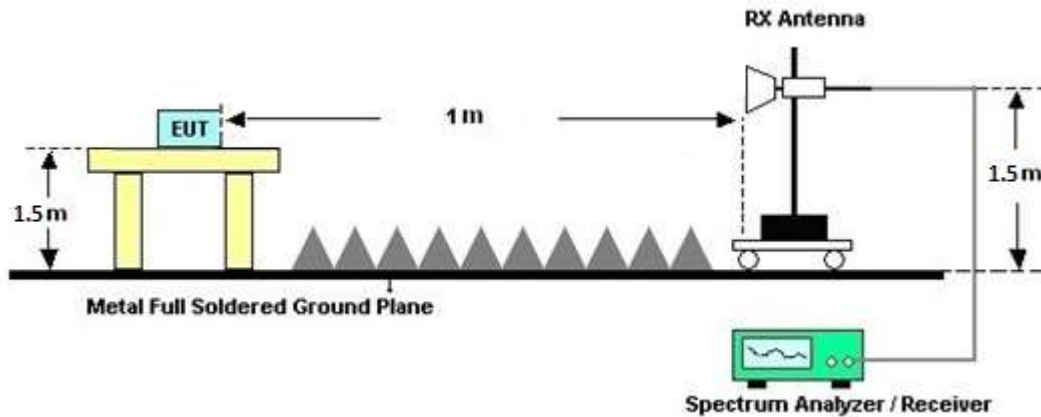
For radiated test from 30MHz to 1GHz



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 B.

3.5.7 Duty Cycle

Please refer to Appendix C.

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

Please refer to Appendix B.



3.6 Antenna Requirements

3.6.1 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.

3.6.2 Antenna Anti-Replacement Construction

Antenna permanently attached.



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	Feb. 09, 2026~ Feb. 23, 2026	Oct. 15, 2026	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec. 11, 2025	Feb. 09, 2026~ Feb. 23, 2026	Dec. 10, 2026	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May. 26, 2025	Feb. 09, 2026~ Feb. 23, 2026	May. 25, 2026	Radiation (03CH20-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Feb. 09, 2026~ Feb. 23, 2026	N/A	Radiation (03CH20-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Feb. 09, 2026~ Feb. 23, 2026	N/A	Radiation (03CH20-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Feb. 09, 2026~ Feb. 23, 2026	N/A	Radiation (03CH20-HY)
Signal Analyzer	Keysight	N9010B	MY60240520	10Hz~44GHz	Dec. 10, 2025	Feb. 09, 2026~ Feb. 23, 2026	Dec. 09, 2026	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N -06	47020 & 06	30MHz~1GHz	Oct. 04, 2025	Feb. 09, 2026~ Feb. 23, 2026	Oct. 03, 2026	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	02360	1GHz-18GHz	Nov. 05, 2025	Feb. 09, 2026~ Feb. 23, 2026	Nov. 04, 2026	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1224	18GHz-40GHz	Jul. 02, 2025	Feb. 09, 2026~ Feb. 23, 2026	Jul. 01, 2026	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz-1000MHz	Dec. 30, 2025	Feb. 09, 2026~ Feb. 23, 2026	Dec. 29, 2026	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45S E	980792	N/A	Nov. 11, 2025	Feb. 09, 2026~ Feb. 23, 2026	Nov. 10, 2026	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,804 015/2,804027 /2	N/A	Jan. 15, 2026	Feb. 09, 2026~ Feb. 23, 2026	Jan. 14, 2027	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303A	TP211382	N/A	Mar. 31, 2025	Feb. 09, 2026~ Feb. 23, 2026	Mar. 30, 2026	Radiation (03CH20-HY)
Software	Audix	N/A	RK-002156	N/A	N/A	Feb. 09, 2026~ Feb. 23, 2026	N/A	Radiation (03CH20-HY)



FCC RADIO TEST REPORT

Report No. : FR620524A

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 04, 2025	Feb. 12, 2026~ Feb. 26, 2026	Nov. 03, 2026	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	17I00015SNO 37 (NO:167)	10MHz~6GHz	Nov. 14, 2025	Feb. 12, 2026~ Feb. 26, 2026	Nov. 13, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 29, 2025	Feb. 12, 2026~ Feb. 26, 2026	Aug. 28, 2026	Conducted (TH05-HY)
Switch Control Mainframe	E-Instument	ETF-1405-0	EC1900067 (BOX7)	N/A	Jul. 02, 2025	Feb. 12, 2026~ Feb. 26, 2026	Jul. 01, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_ version_24051 3	N/A	Conducted Other Test Item	N/A	Feb. 12, 2026~ Feb. 26, 2026	N/A	Conducted (TH05-HY)



5 Measurement Uncertainty

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
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Joseph Hu	Temperature:	21~25	°C
Test Date:	2026/2/12~2026/02/26	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE	1Mbps	1	0	2402	1.055	0.697	0.50	Pass
BLE	1Mbps	1	19	2440	1.053	0.675	0.50	Pass
BLE	1Mbps	1	39	2480	1.054	0.704	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	Setting
BLE	1Mbps	1	0	2402	8.04	30.00	2.21	10.25	36.00	Pass	8
BLE	1Mbps	1	19	2440	8.01	30.00	2.21	10.22	36.00	Pass	8
BLE	1Mbps	1	39	2480	8.02	30.00	2.21	10.23	36.00	Pass	8

TEST RESULTS DATA
Peak Power Density

Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	Peak PSD (dBm /100kHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
BLE	1Mbps	1	0	2402	7.73	-7.12	2.21	8.00	Pass
BLE	1Mbps	1	19	2440	7.45	-7.39	2.21	8.00	Pass
BLE	1Mbps	1	39	2480	7.68	-7.30	2.21	8.00	Pass

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

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
BLE	2Mbps	1	0	2402	2.099	1.153	0.50	Pass
BLE	2Mbps	1	19	2440	2.097	1.144	0.50	Pass
BLE	2Mbps	1	39	2480	2.094	1.228	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	Setting
BLE	2Mbps	1	0	2402	8.05	30.00	2.21	10.26	36.00	Pass	8
BLE	2Mbps	1	19	2440	8.01	30.00	2.21	10.22	36.00	Pass	8
BLE	2Mbps	1	39	2480	8.06	30.00	2.21	10.27	36.00	Pass	8

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	7.58	-10.25	2.21	8.00	Pass
BLE	2Mbps	1	19	2440	7.55	-10.33	2.21	8.00	Pass
BLE	2Mbps	1	39	2480	7.73	-9.98	2.21	8.00	Pass

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

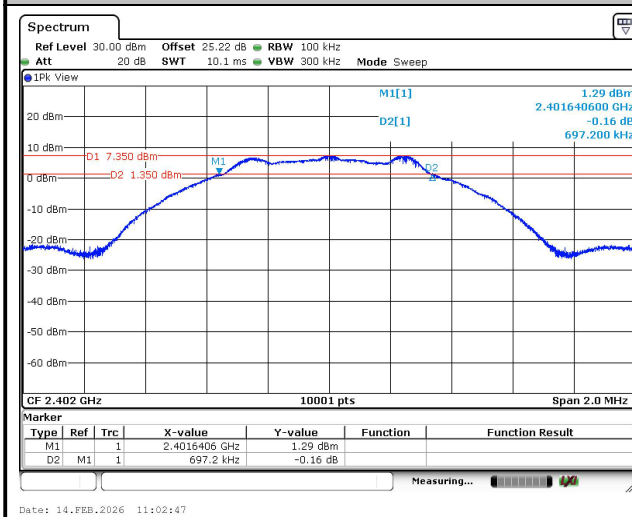


Number of TX = 1, Ant. 0 (Measured)

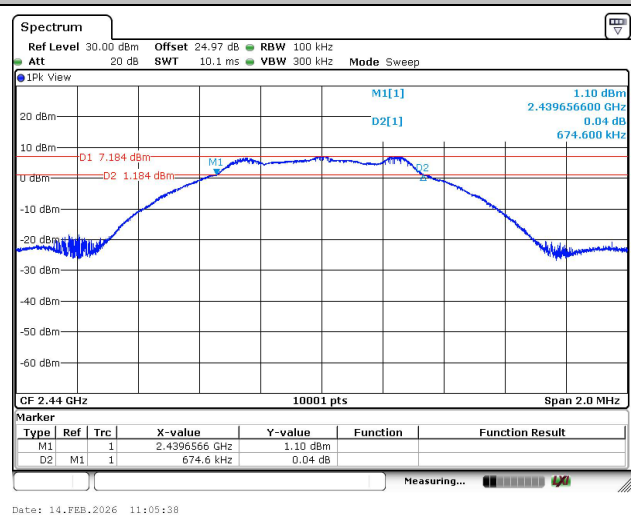
6dB Bandwidth

<1M>

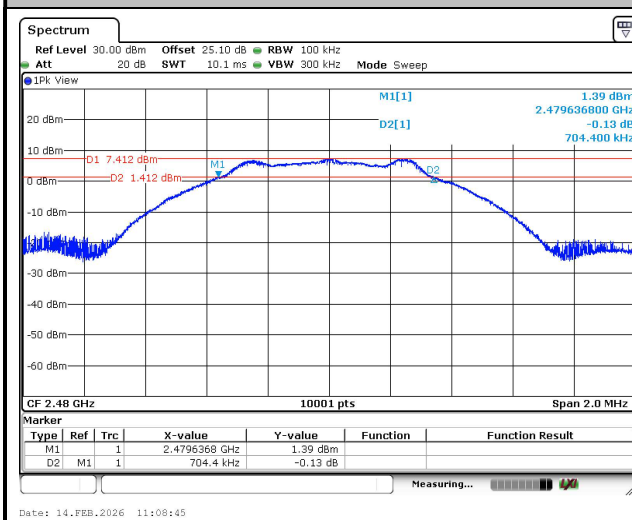
6 dB Bandwidth Plot on Channel 00



6 dB Bandwidth Plot on Channel 19



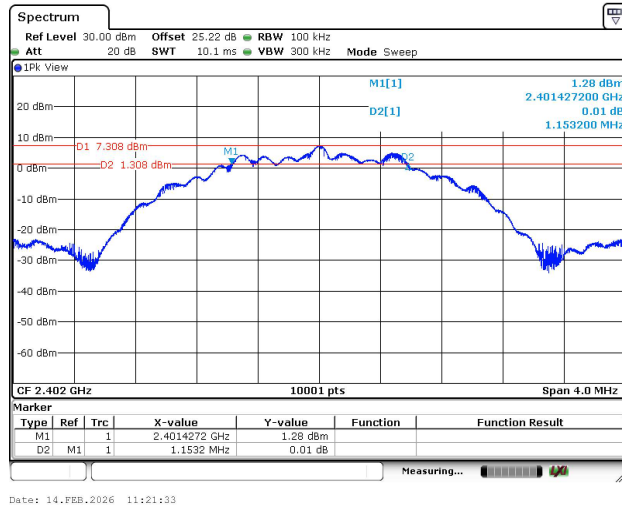
6 dB Bandwidth Plot on Channel 39



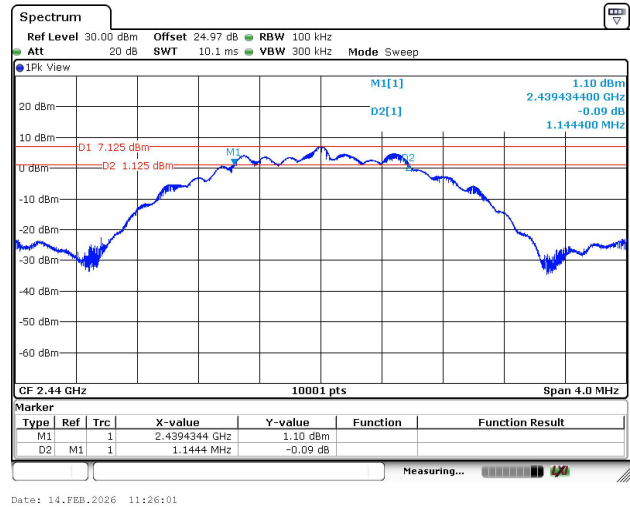


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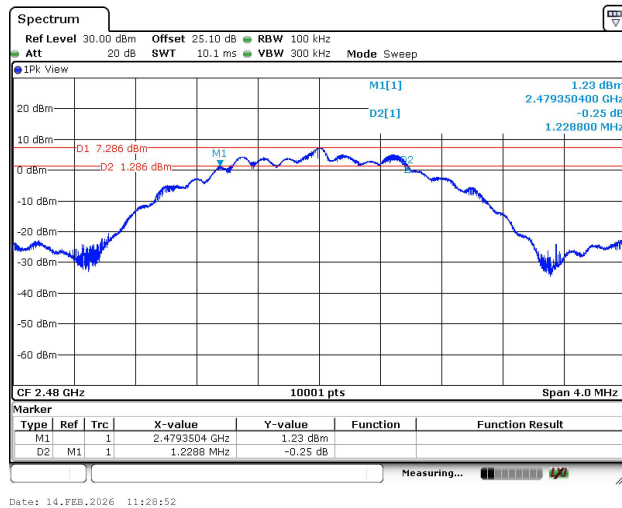
6 dB Bandwidth Plot on Channel 00



6 dB Bandwidth Plot on Channel 19

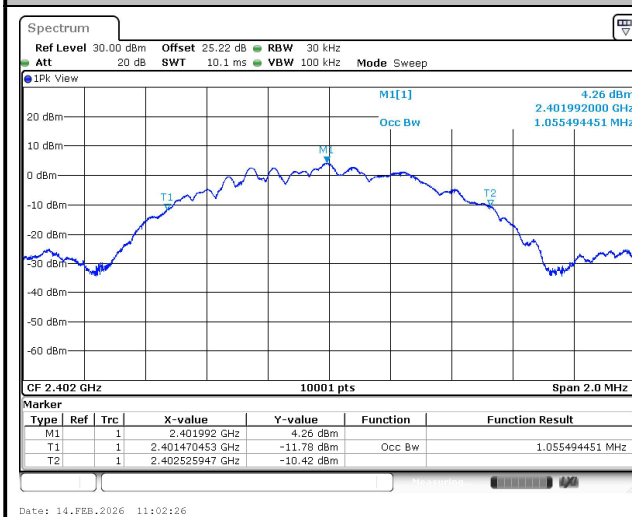
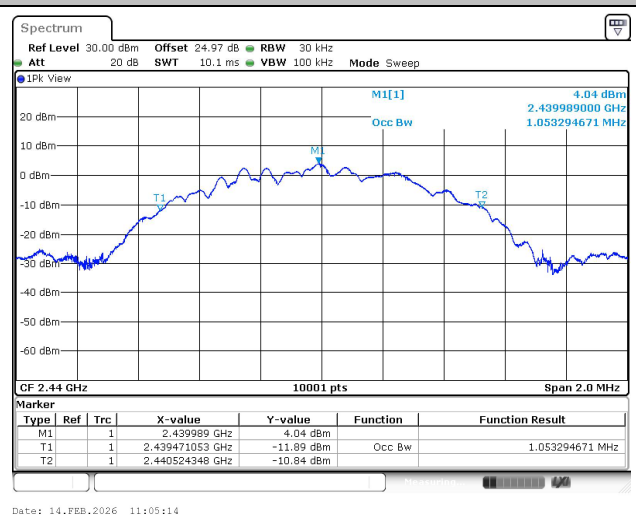
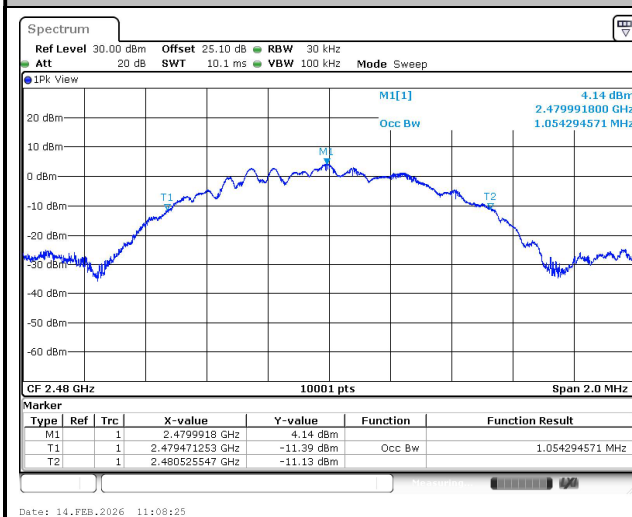


6 dB Bandwidth Plot on Channel 39



**99% Occupied Bandwidth**

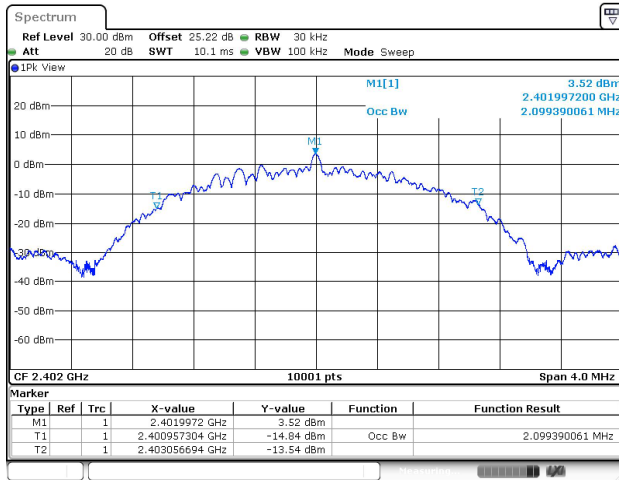
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99% Occupied Bandwidth Plot on Channel 00**99% Occupied Bandwidth Plot on Channel 19****99% Occupied Bandwidth Plot on Channel 39**

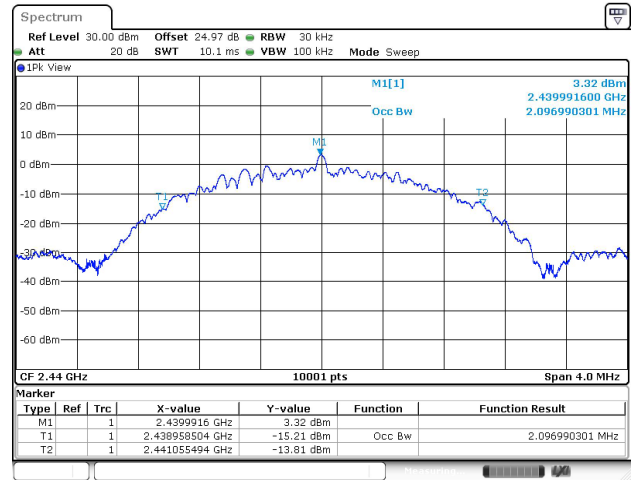


<2M>

99% Occupied Bandwidth Plot on Channel 00



99% Occupied Bandwidth Plot on Channel 19



99% Occupied Bandwidth Plot on Channel 39

