

TEST REPORT

Report Number: 15605535-E9V4

Applicant : SAMSUNG ELECTRONICS CO., LTD.
129 SAMSUNG-RO, YEONGTONG-GU
SUWON-SI, GYEONGGI-DO, 16677, KOREA

Model : SM-X626B

FCC ID : A3LSMX626B

EUT Description : GSM/WCDMA/LTE/5G NR Tablet + BT/BLE, DTS/UNII a/b/g/n/ac/ax
and Digitizer

Test Standard(s) : FCC 47 CFR PART 15 SUBPART C

Date Of Issue:
2025-02-21

Prepared by:
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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2025-02-07	Initial Issue	--
V2	2025-02-17	Section 6.5 updated	Gerardo Abrego
V3	2025-02-19	Section 6.2 updated	Henry Lau
V4	2025-02-21	Section 10.1.3/4 updated Section 10.4	Henry Lau

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
129 SAMSUNG-RO, YEONGTONG-GU
SUWON-SI, GYEONGGI-DO, 16677, KOREA

EUT DESCRIPTION: GSM/WCDMA/LTE/5G NR Tablet + BT/BLE, DTS/UNII
a/b/g/n/ac/ax and Digitizer

MODEL: SM-X626B

SERIAL NUMBER: Radiated: R32XC0006AD
Conducted: R32XC00055M

DATE TESTED: 2024-12-16 TO 2025-02-04

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Complies

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document.

Approved & Released For
UL Verification Services Inc. By:



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2. TEST RESULTS SUMMARY

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for correctly integrating customer-provided data with measurements performed by UL Verification Services Inc.

Below is a list of the data provided by the customer:

- 1) Antenna gain and type (see section 6.3)
- 2) Cable Loss (see section 6.3)

FCC Clause	Requirement	Result	Comment
See Comment	Duty Cycle	Reporting purposes only	ANSI C63.10 Section 11.6.
15.247 (a) (2)	6dB BW	Complies	None.
15.247 (b) (3)	Output Power	Complies	None.
See Comment	Average power	Reporting purposes only	Per ANSI C63.10, Section 11.9.2.3.2.
15.247 (e)	PSD	Complies	None.
15.247 (d)	Conducted Spurious Emissions	Complies	None.
15.209, 15.205	Radiated Emissions	Complies	None.
15.207	AC Mains Conducted Emissions	Complies	None.

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with

- FCC CFR 47 Part 2
- FCC CFR 47 Part 15
- ANSI C63.10-2020
- KDB 558074 D01 15.247 Meas Guidance
- KDB 414788 D01 Radiated Test Site

4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, Certificate Number 0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☒	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	550739
☐	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
☐	Building 3: 843 Auburn Court, Fremont, CA 94538, USA			
☒	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			
☐	Building 5: 47670 Kato Rd, Fremont, CA 94538, USA			

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U _{Lab}
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22%
Power Spectral Density	2.47 dB
RF Power Measurement Direct Method Using Power Meter	1.3 dB (PK) / 0.45 dB (AV)
Unwanted Emissions, Conducted	1.94 dB
Worst Case Conducted Disturbance, 9kHz to 0.15 MHz	3.78 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Worst Case Radiated Disturbance, 9kHz to 30 MHz	2.87 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB
Time Domain Measurements	3.39%
Temperature	0.57°C
Relative Humidity	3.39%
DC Supply Voltages	0.57%

Uncertainty figures are valid to a confidence level of 95%.

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable
Loss (dB) – Preamp Gain (dB)

$36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) +
LISN Insertion Loss.

$36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$

6. EQUIPMENT UNDER TEST

6.1. EUT DESCRIPTION

The EUT is a GSM/WCDMA/LTE/5G NR Tablet + BT/BLE, DTS/UNII a/b/g/n/ac/ax and Digitizer.

6.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum peak conducted output power as follows:

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
2402 - 2480	BLE (125kbps)	12.20	16.60
	BLE (500kbps)	12.23	16.71
	BLE (1Mbps)	15.98	39.63
2404 - 2478	BLE (2Mbps)	15.92	39.08

The EUT does not support Primary PHY channels (2402[37] / 2426[38] / 2480[39] MHz) at the BLE 2Mbps data-rate. BLE 2Mbps channels used for testing are from 2404 – 2478 MHz

6.3. DESCRIPTION OF AVAILABLE ANTENNAS AND CABLE LOSS

The antenna(s) gain, type and cable loss, as provided by the manufacturer' are as follows:

The radio utilizes an internal antenna, with a maximum gain of -3.7dBi.
Cable loss: 0.7dB.

6.4. WORST-CASE CONFIGURATION AND MODE

Radiated emissions below 1GHz, above 18GHz, and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

Band edge and radiated emissions between 1GHz and 18GHz were performed with the EUT set to transmit at the highest power on low, middle and high channels.

For radiated emissions between 1GHz and 18GHz, 125kbps and 2Mbps were tested to cover worst case PSD and worst-case power.

The fundamental of the EUT was investigated in three orthogonal orientations X,Y,Z, it was determined that Y orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Y orientation.

EUT supports the following data rates:

- 125kbps
- 500kbps
- 1Mbps
- 2Mbps

6.5. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT				
Description	Manufacturer	Model	Serial Number	FCC ID/ DoC
AC Adapter	Samsung	EP-TA800	R37WBAA004BDKA	N/A
S-Pen	Samsung	N/A	N/A	N/A
Keyboard	Samsung	DX625	N/A	N/A

I/O CABLES (RF CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	Antenna	1	RF	Unshielded	0.2	N/A
2	USB-C	1	USB-C	Shielded	1	EUT to AC Mains

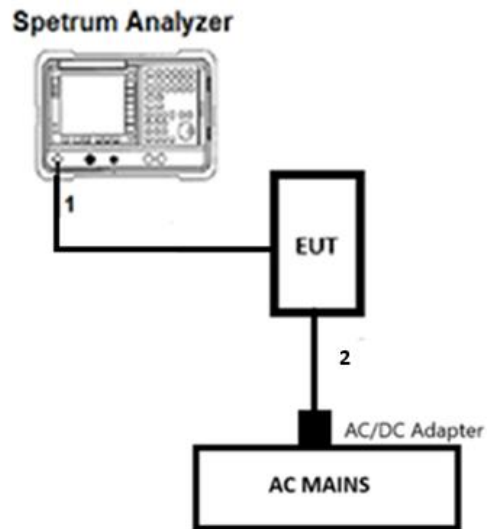
I/O CABLES (RF RADIATED and AC LINE CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	USB-C	1	USB-C	Shielded	1	N/A

TEST SETUP

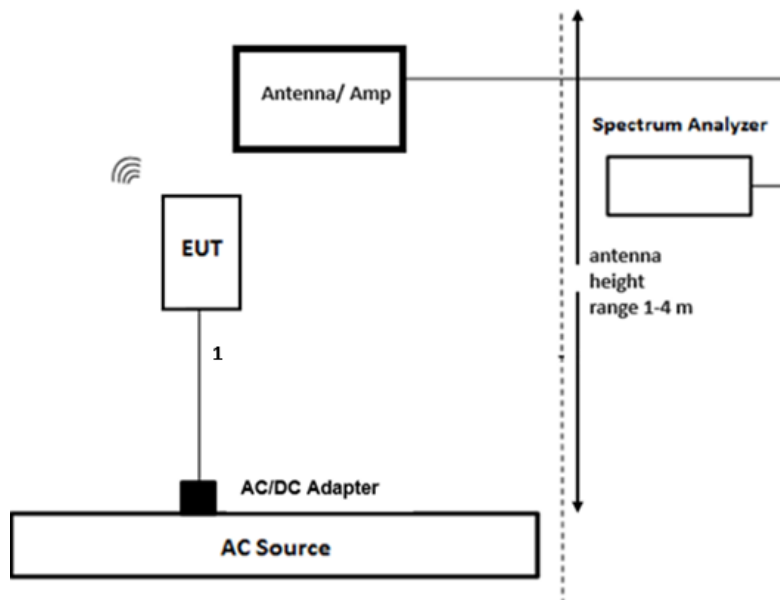
The EUT is a stand-alone device configured and tested in a worst-case setup. Worst case is using Y orientation with AC charger attached to the EUT. Test software exercised the radio card.

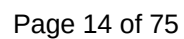
SETUP DIAGRAM

Conducted Configuration



Radiated Configuration





7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST					
Description	Manufacturer	Model	ID Num	Cal Due	Last Cal
Antenna, Passive Loop 30Hz - 1MHz	ELECTRO METRICS	EM-6871	219908	2025-05-31	2023-05-31
Antenna, Passive Loop 100KHz - 30MHz	ELECTRO METRICS	EM-6872	219910	2025-05-31	2023-05-31
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences Corp.	JB1	80293	2025-04-30	2023-04-11
Amplifier,9KHz to 1GHz, 32dB	SONOMA INSTRUMENT	310	170647	2025-03-31	2024-03-25
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	80707	2025-06-30	2024-06-07
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	206808	2025-04-30	2024-04-23
RF Filter Box, 1-18GHz	UL-FR1	n/a	171875	2025-03-31	2024-03-23
RF Filter Box, 1-18GHz	UL-FR1	SAC 8 port rf box 1	197920	2025-03-31	2024-03-30
EMI TEST RECEIVER, with B8 option	Rohde & Schwarz	ESW44	245268	2025-02-28	2024-02-15
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	225688	2025-02-28	2024-02-11
Antenna, Horn 18 to 26.5GHz	A.R.A.	MWH-1826/B	199658	2025-02-28	2024-02-02
Amplifier 18-26.5GHz, +5Vdc, -54dBm P1dB	AMPLICAL	AMP18G26.5-60	234683	2025-05-31	2024-05-13
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight Technologies Inc	N9030A	80396	2025-02-28	2024-02-21
Power Meter, P-series single channel	Keysight Technologies Inc	N1921A	90391	2025-06-30	2024-06-17
Power Sensor, P - series, 50MHz to 18GHz, Wideband	Keysight Technologies Inc	N1911A	90754	2025-01-31	2024-01-25
10dB Fixed Attenuator	Pasternack Enterprises	PE7087-10	236188	Verified Before Use	
AC Line Conducted					
LISN	Fischer Custom Communications, Inc	FCC-LISN-50/250-25-2-01-480V	175765	2025-01-31*	2024-01-26
EMI TEST RECEIVER	Rohde & Schwarz	ESR	171646	2025-02-28	2024-02-27
Transient Limiter	TE	TBFL1	207996	2025-01-31*	2024-01-23
UL TEST SOFTWARE LIST					
Radiated Software	UL	UL EMC	Ver 2024-08-15, 2023-03, 2023-05-01		
Antenna Port Software	UL	UL RF	Ver 2022-08-16		
AC Line Conducted Software	UL	UL EMC	Rev 9.5, 2023-03		

*Testing was performed within cal date.

8. MEASUREMENT METHOD

On Time and Duty Cycle: ANSI C63.10 Section 11.6.

6 dB BW: ANSI C63.10 Subclause -11.8.1 $RBW \geq DTS\ BW$

Output Power: ANSI C63.10 Subclause -11.9.1.2 Method PKPM1 Peak-reading power meter

Output Power: ANSI C63.10 Subclause -11.9.2.3.2 Method AVGPM-G (Measurement using a gated RF average-reading power meter)

PSD: ANSI C63.10 Subclause -11.10.2 Method PKPSD (peak PSD)

Radiated emissions non-restricted frequency bands: ANSI C63.10 Subclause -11.11

Radiated emissions restricted frequency bands: ANSI C63.10 Subclause -11.12.1

Conducted emissions in restricted frequency bands: ANSI C63.10 Subclause -11.12.2

Band-edge: ANSI C63.10 Subclause -6.10.5.2 Peak detection

Band-edge: ANSI C63.10 Subclause -6.10.5.2 Reduced VBW averaging

AC Power Line Conducted Emissions: ANSI C63.10 Section 6.2.

Radiated Spurious Emissions Below 30MHz: ANSI C63.10 Section 6.4

9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

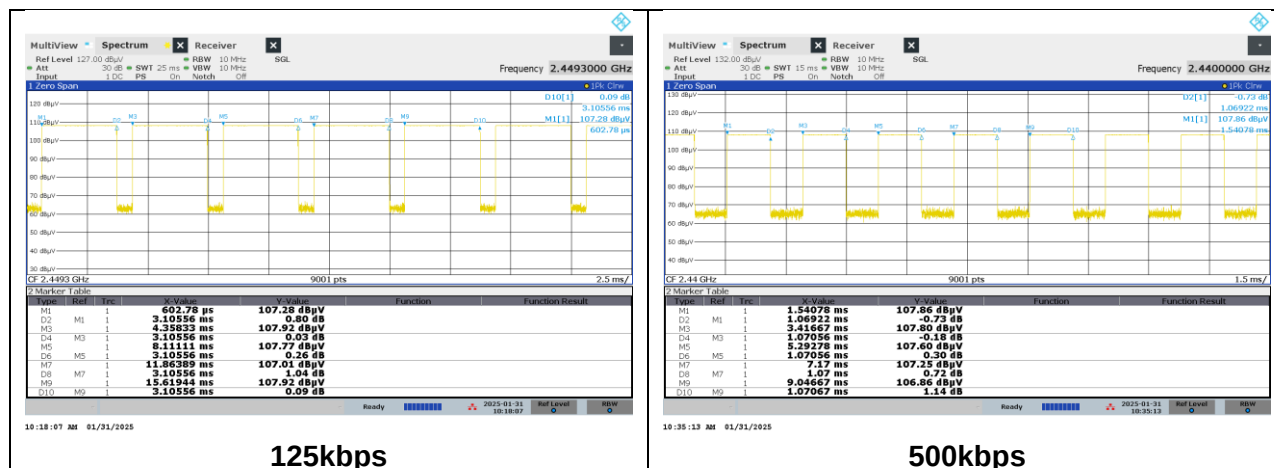
PROCEDURE

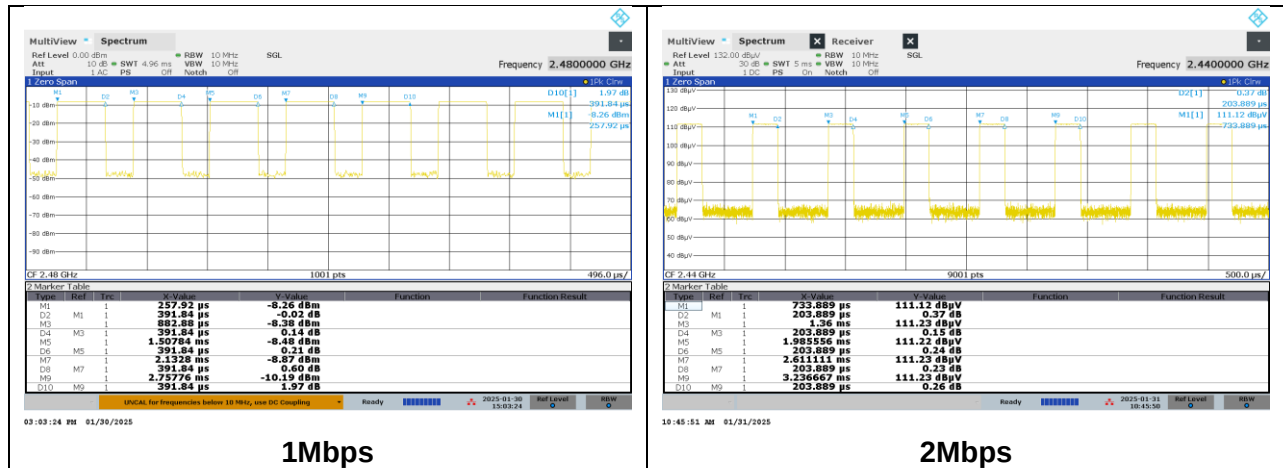
KDB 558074 Zero-Span Spectrum Analyzer Method.

ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time T (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)
125kbps	3.106					0.322
500kbps	1.069					0.935
1Mbps	0.392					2.552
2Mbps	0.204					4.905

The Duty Cycle is non constant and < 98% due to a 200ms off time therefore 1/T method was used for averaging.





9.2. 6 dB BANDWIDTH

LIMITS

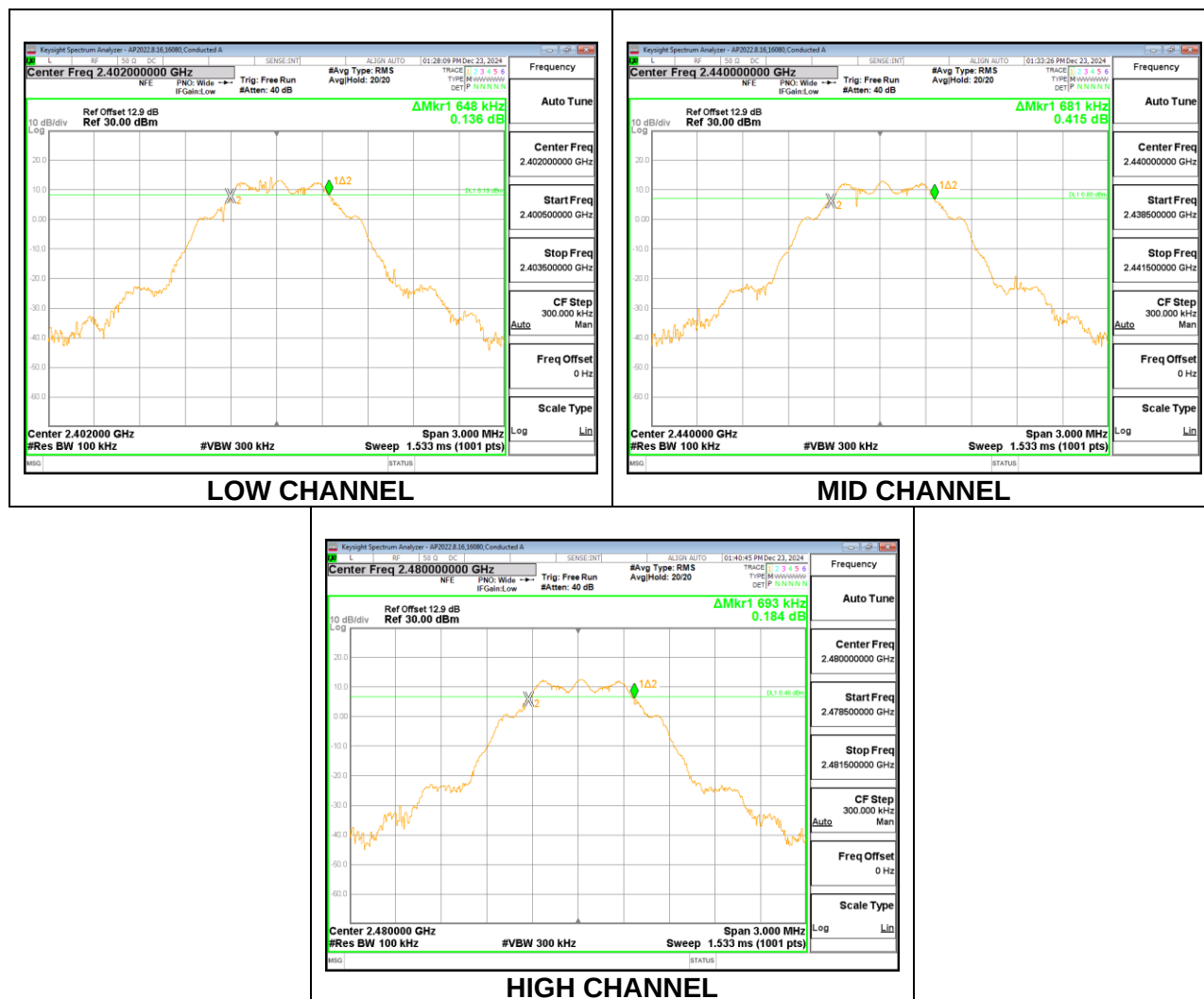
FCC §15.247 (a) (2)

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

RESULTS

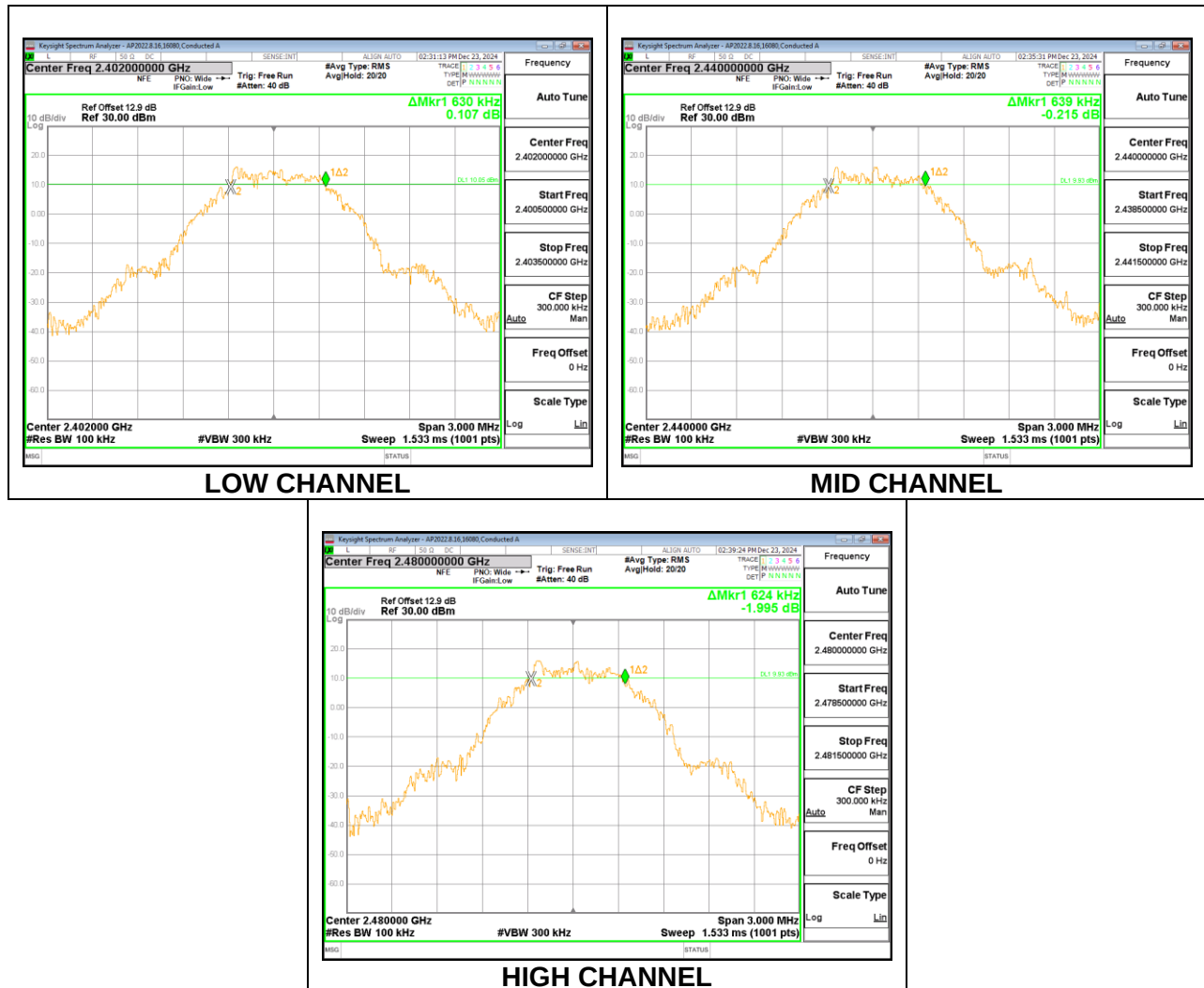
9.2.1. BLE (125kbps)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2402	0.6480	0.5
Middle	2440	0.6810	0.5
High	2480	0.6930	0.5



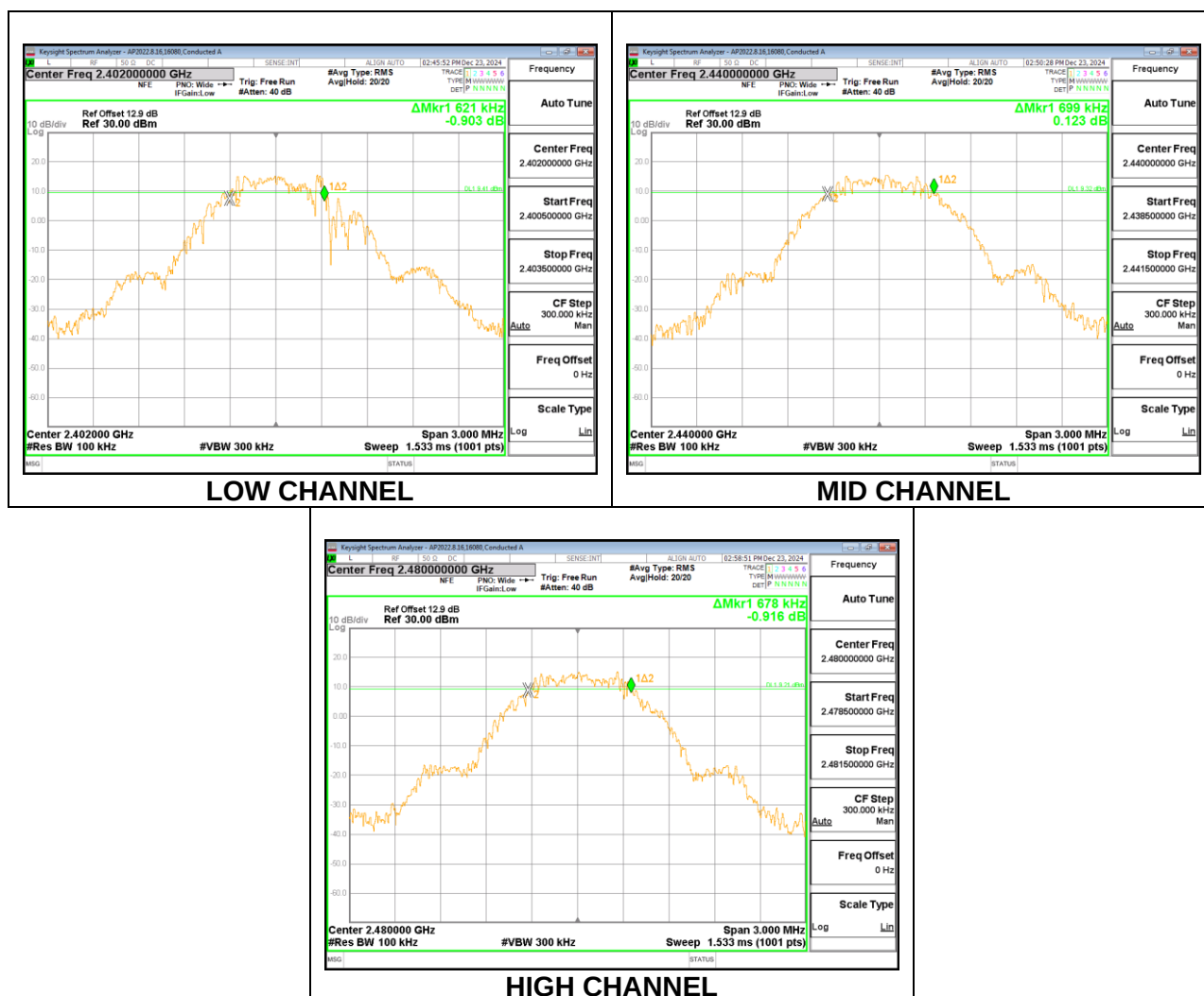
9.2.2. BLE (500kbps)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2402	0.6300	0.5
Middle	2440	0.6390	0.5
High	2480	0.6240	0.5



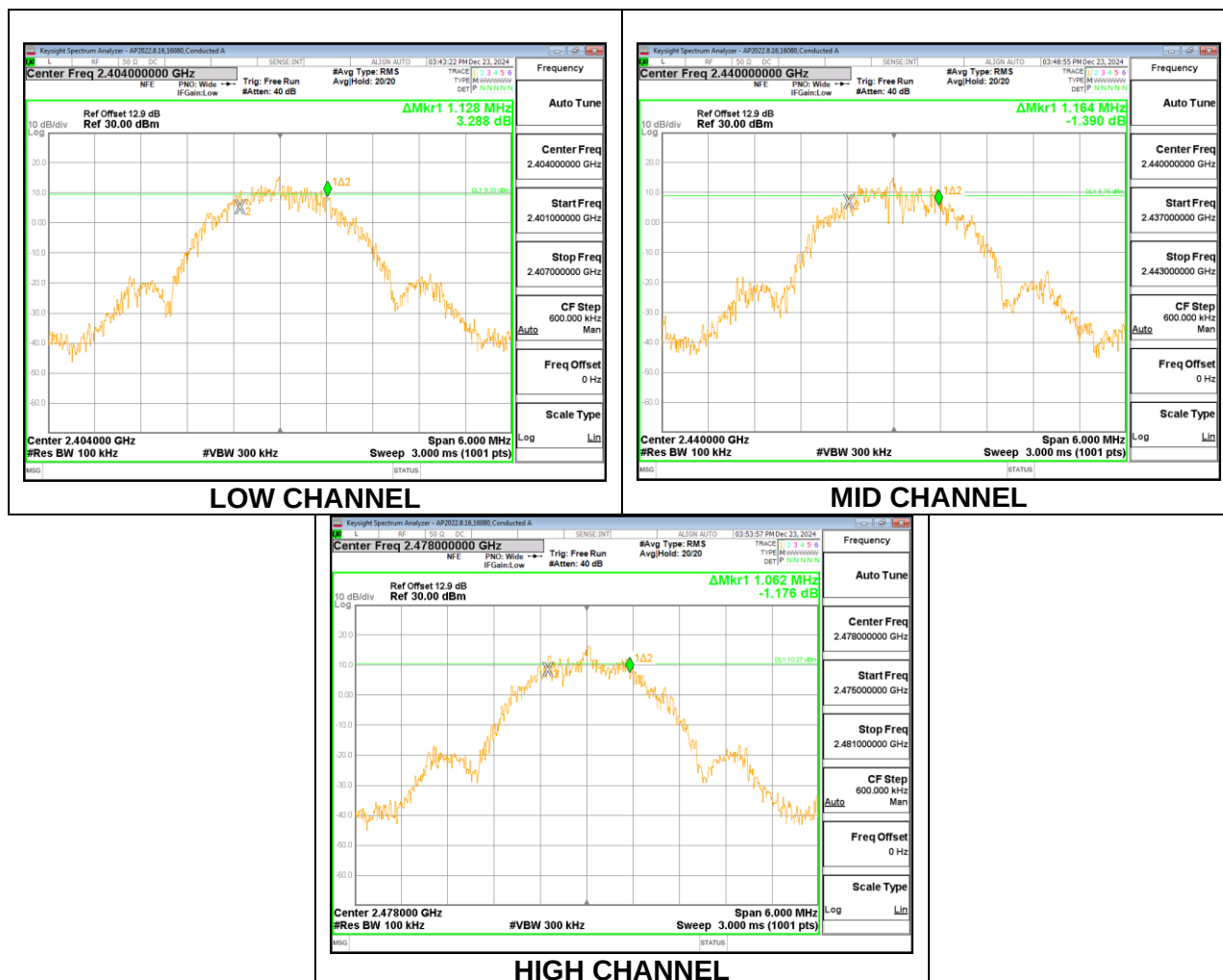
9.2.3. BLE (1Mbps)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2402	0.6210	0.5
Middle	2440	0.6990	0.5
High	2480	0.6780	0.5



9.2.4. BLE (2Mbps)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2404	1.1280	0.5
Middle	2440	1.1640	0.5
High	2478	1.0620	0.5



9.3. OUTPUT POWER

LIMITS

FCC §15.247 (b) (3)

The maximum antenna gain is less than or equal to 6 dBi, therefore the limit is 30 dBm.

TEST PROCEDURE

The transmitter output is connected to a power meter.

The power output was measured on the EUT antenna port using SMA cable with 10dB attenuator connected to a power meter via wideband power sensor. Peak output power was read directly from power meter.

RESULTS

9.3.1. BLE (125kbps)

Tested By:	16080
Date:	2025-01-14

Channel	Frequency (MHz)	Peak Power Reading (dBm)	Limit (dBm)	Margin (dB)
Low	2402	12.150	30	-17.850
Middle	2440	12.200	30	-17.800
High	2480	12.010	30	-17.990

9.3.2. BLE (500kbps)

Tested By:	16080
Date:	2025-01-14

Channel	Frequency (MHz)	Peak Power Reading (dBm)	Limit (dBm)	Margin (dB)
Low	2402	12.050	30	-17.950
Middle	2440	12.230	30	-17.770
High	2480	11.980	30	-18.020

9.3.3. BLE (1Mbps)

Tested By:	16080
Date:	2024-12-23

Channel	Frequency (MHz)	Peak Power Reading (dBm)	Limit (dBm)	Margin (dB)
Low	2402	15.540	30	-14.460
Middle	2440	15.980	30	-14.020
High	2480	15.770	30	-14.230

9.3.4. BLE (2Mbps)

Tested By:	16080
Date:	2024-12-23

Channel	Frequency (MHz)	Peak Power Reading (dBm)	Limit (dBm)	Margin (dB)
Low	2404	15.860	30	-14.140
Middle	2440	15.920	30	-14.080
High	2478	15.870	30	-14.130

9.4. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a power meter.

The power output was measured on the EUT antenna port using SMA cable with 10dB attenuator connected to a power meter via wideband power sensor. Gated average output power was read directly from power meter.

RESULTS

9.4.1. BLE (125kbps)

Tested By:	16080
Date:	2025-01-14

Channel	Frequency (MHz)	AV power (dBm)
Low	2402	11.82
Middle	2440	11.98
High	2480	11.67

9.4.2. BLE (500kbps)

Tested By:	16080
Date:	2025-01-14

Channel	Frequency (MHz)	AV power (dBm)
Low	2402	11.95
Middle	2440	11.99
High	2480	11.86

9.4.3. BLE (1Mbps)

Tested By:	16080
Date:	2024-12-23

Channel	Frequency (MHz)	AV power (dBm)
Low	2402	14.85
Middle	2440	15.02
High	2480	14.98

9.4.4. BLE (2Mbps)

Tested By:	16080
Date:	2024-12-23

Channel	Frequency (MHz)	AV power (dBm)
Low	2404	15.1
Middle	2440	15.17
High	2478	15.06

9.5. POWER SPECTRAL DENSITY

LIMITS

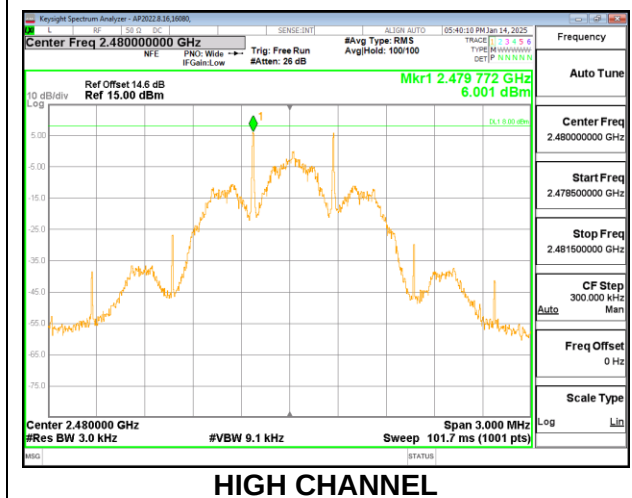
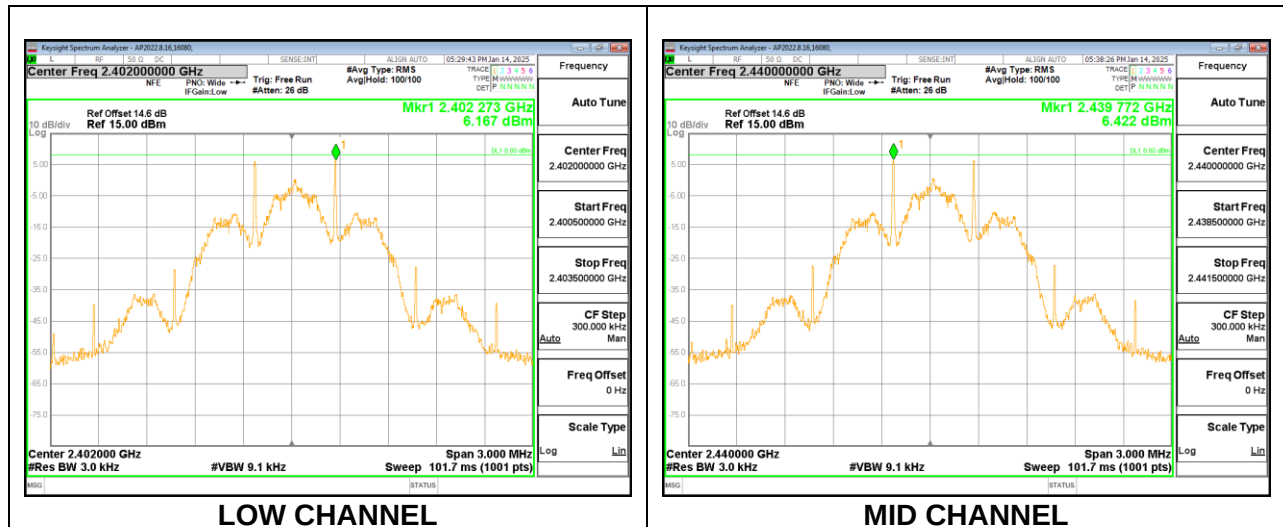
FCC §15.247 (e)

The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

RESULTS

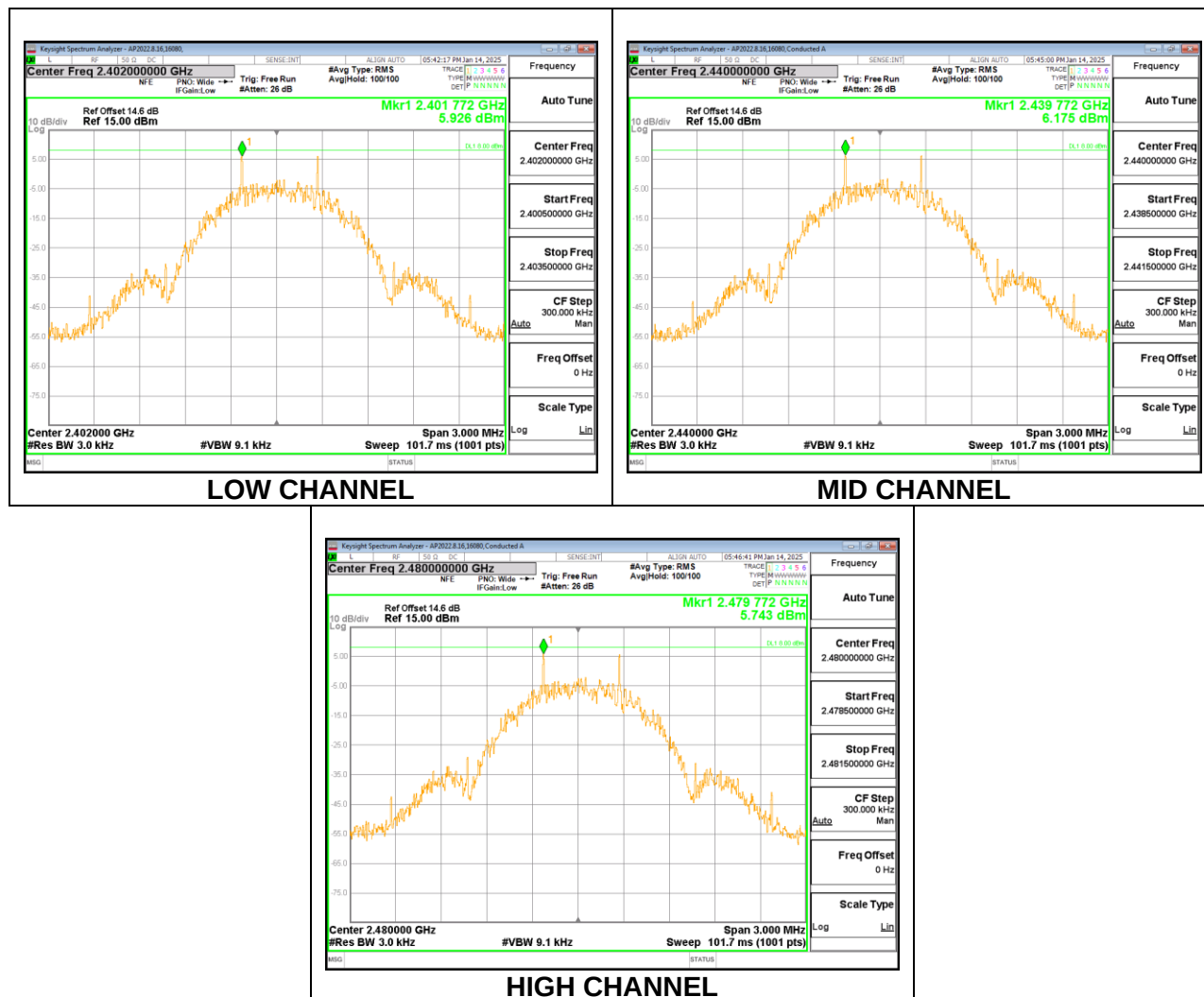
9.5.1. BLE (125kbps)

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low	2402	6.17	8	-1.83
Middle	2440	6.42	8	-1.58
High	2480	6.00	8	-2.00



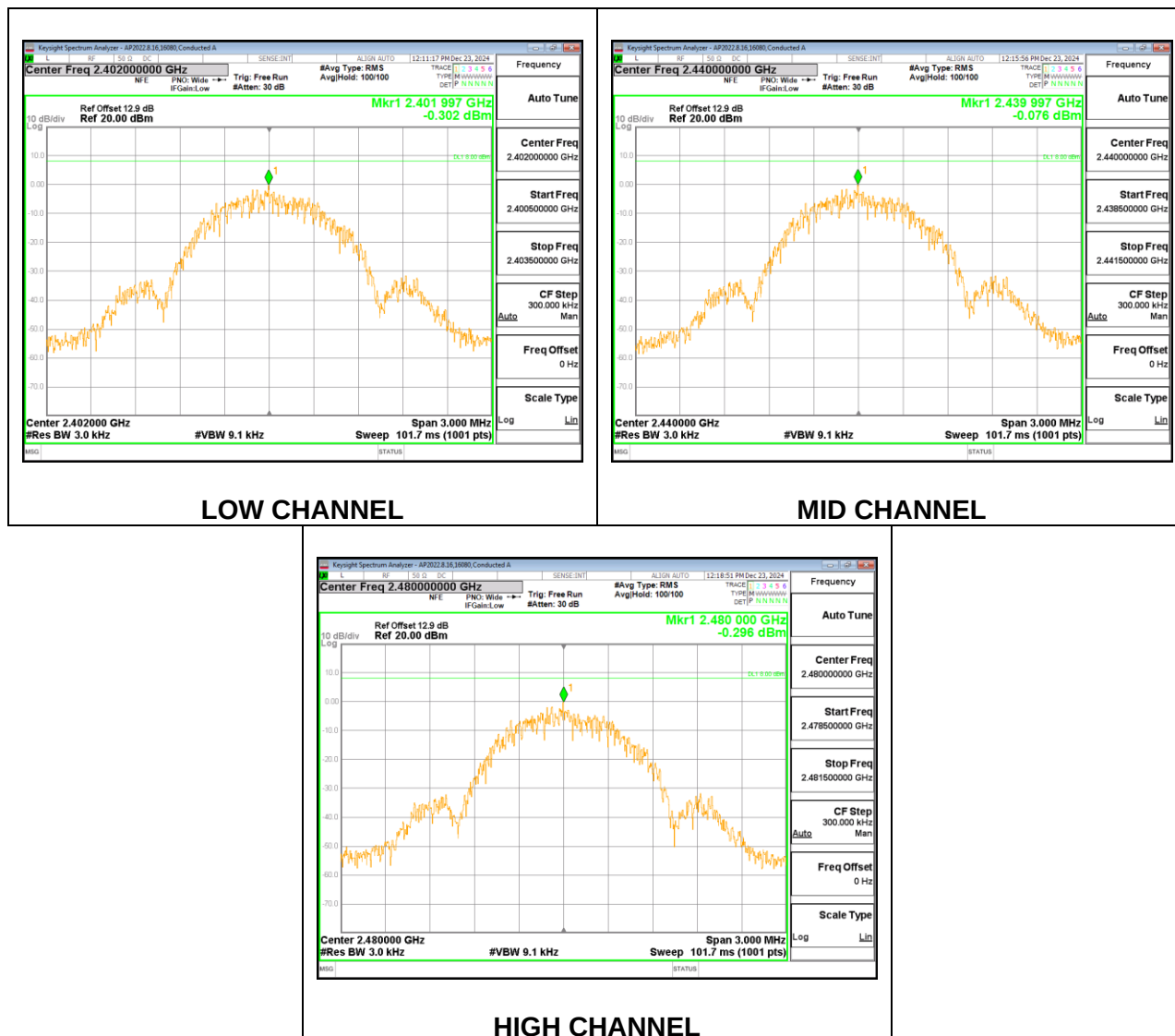
9.5.2. BLE (500kbps)

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low	2402	5.93	8	-2.07
Middle	2440	6.18	8	-1.83
High	2480	5.74	8	-2.26



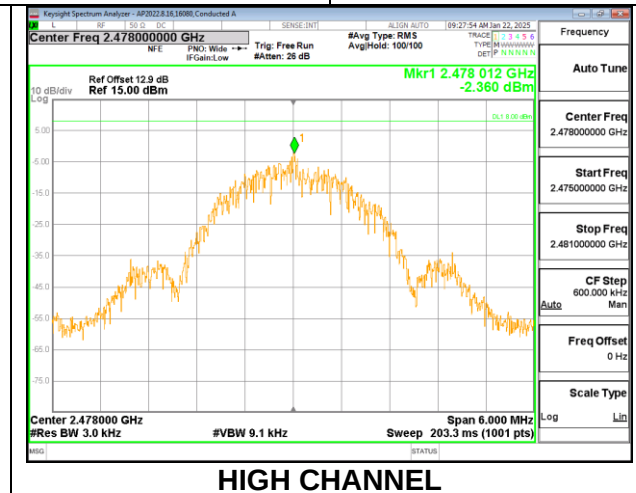
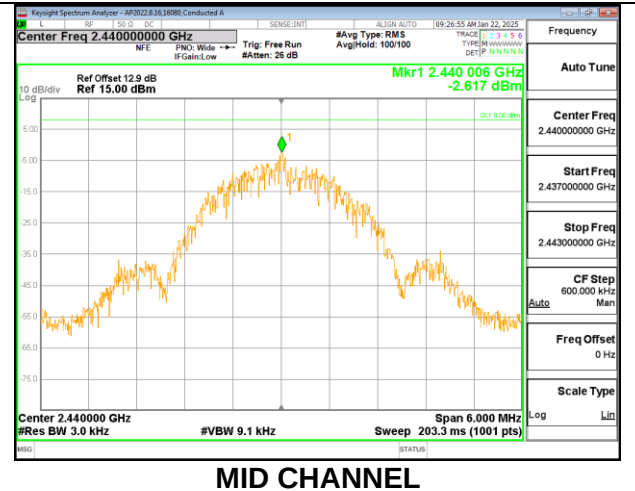
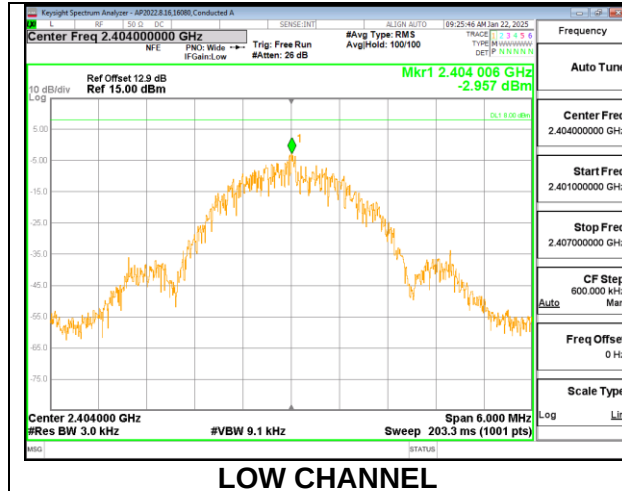
9.5.3. BLE (1Mbps)

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low	2402	-0.30	8	-8.30
Middle	2440	-0.08	8	-8.08
High	2480	-0.30	8	-8.30



9.5.4. BLE (2Mbps)

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low	2404	-2.96	8	-10.96
Middle	2440	-2.62	8	-10.62
High	2478	-2.36	8	-10.36



9.6. CONDUCTED SPURIOUS EMISSIONS

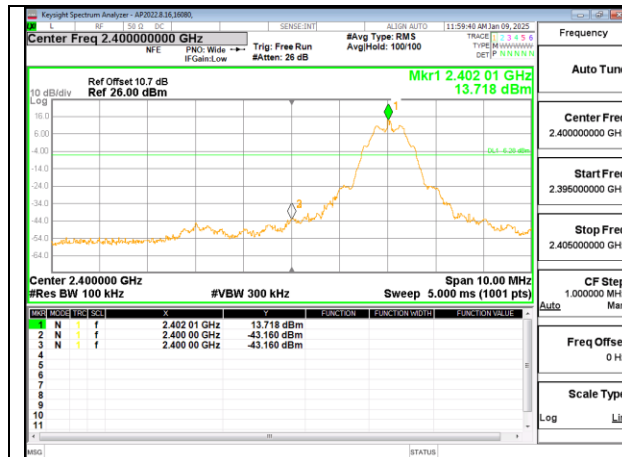
LIMITS

FCC §15.247 (d)

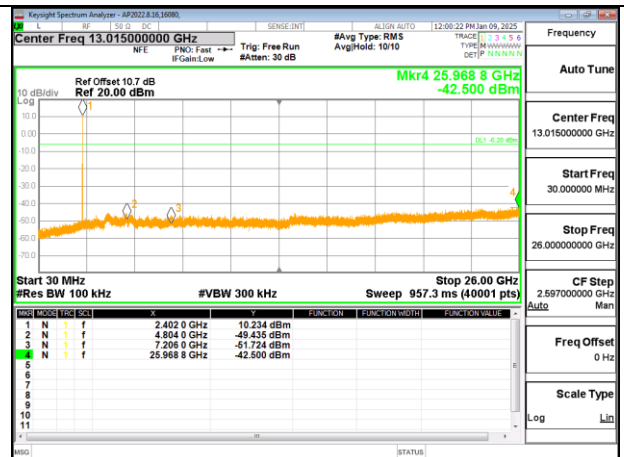
Output power was measured based on the use of a peak measurement, therefore the required attenuation is 20 dBc.

RESULTS

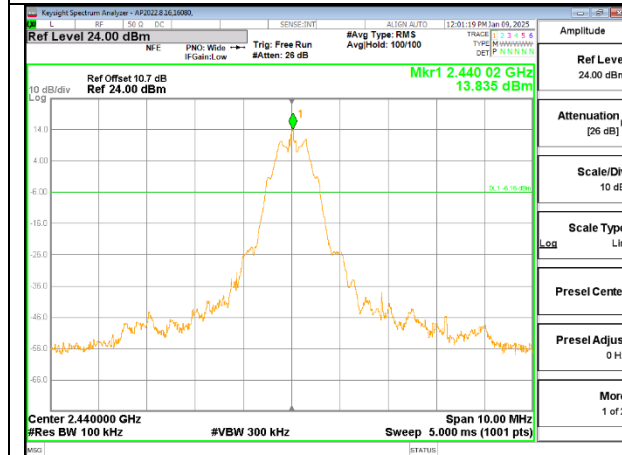
9.6.1. BLE (125kbps)



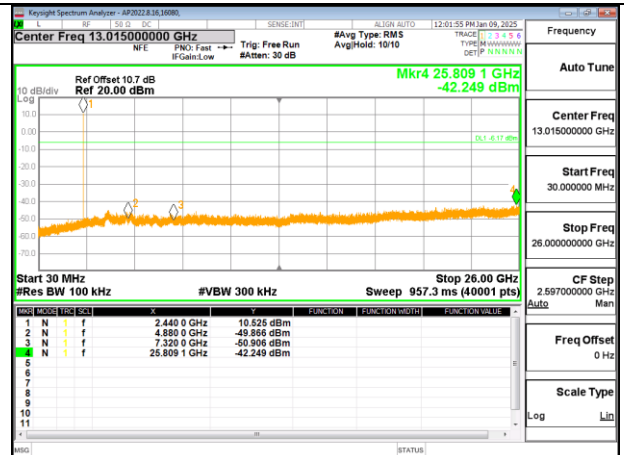
LOW CHANNEL BANDEDGE



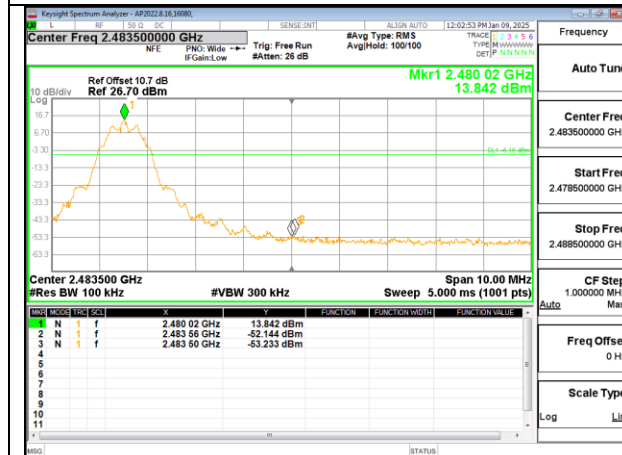
OUT-OF-BAND LOW CHANNEL



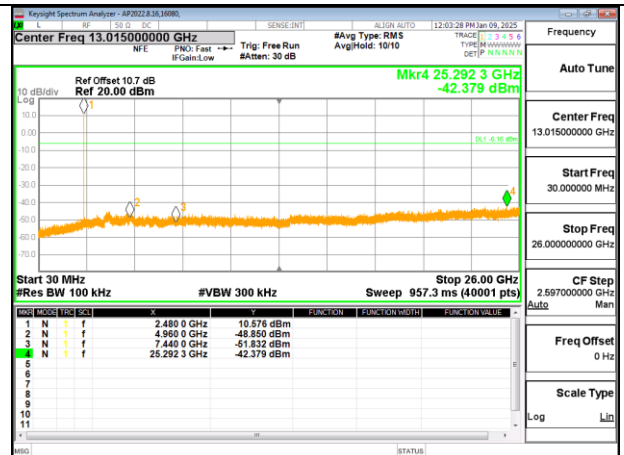
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL

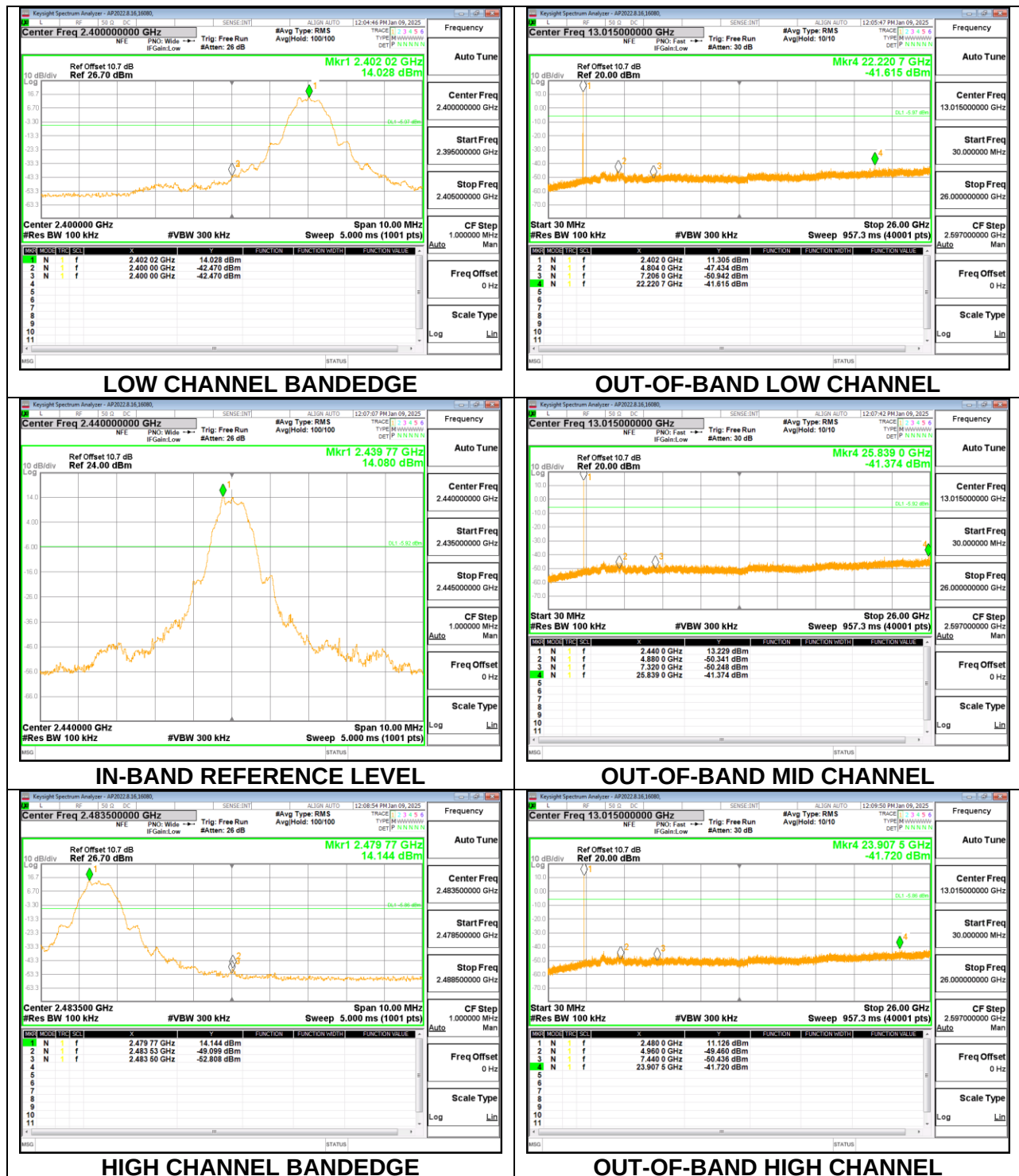


HIGH CHANNEL BANDEDGE

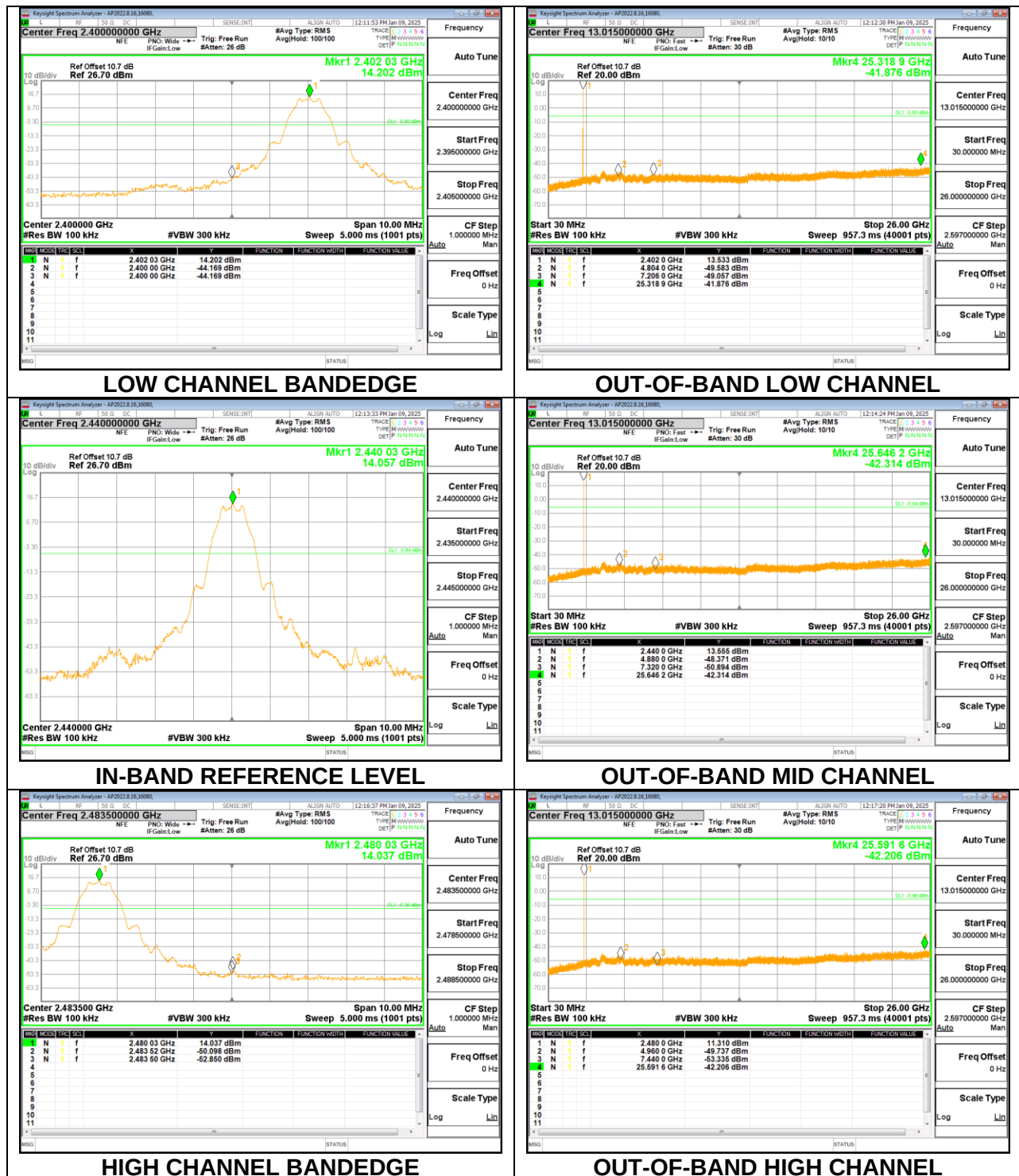


OUT-OF-BAND HIGH CHANNEL

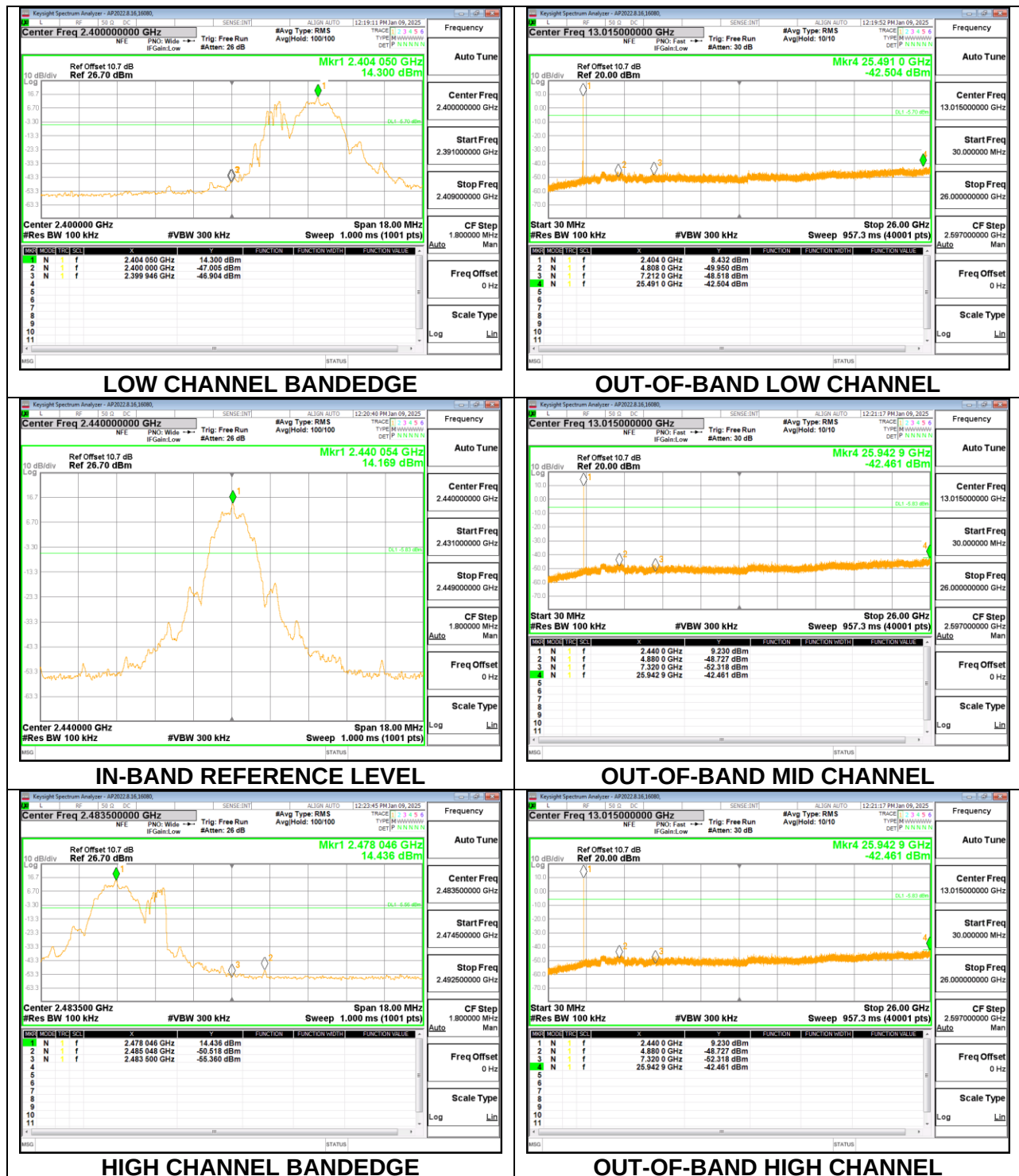
9.6.2. BLE (500kbps)



9.6.3. BLE (1Mbps)



9.6.4. BLE (2Mbps)



10. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements in the 30-1000MHz range, 9kHz for peak and/or quasi-peak detection measurements in the 0.15-30MHz range and 200Hz for peak and/or quasi-peak detection measurements in the 9 to 150kHz range. Peak detection is used unless otherwise noted as quasi-peak or average (9-90kHz and 110-490kHz).

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 kHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements. 1MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements where the actual VBW set for tests are as follows:

125kbps: 500Hz

500kbps:1kHz

1Mbps:3kHz

2Mbps: 5kHz

The spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. Below 1GHz and above 18GHz emissions, the channel with the highest output power was tested.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only.

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

KDB 414788 Open Field Site (OFS) and Chamber Correlation Justification

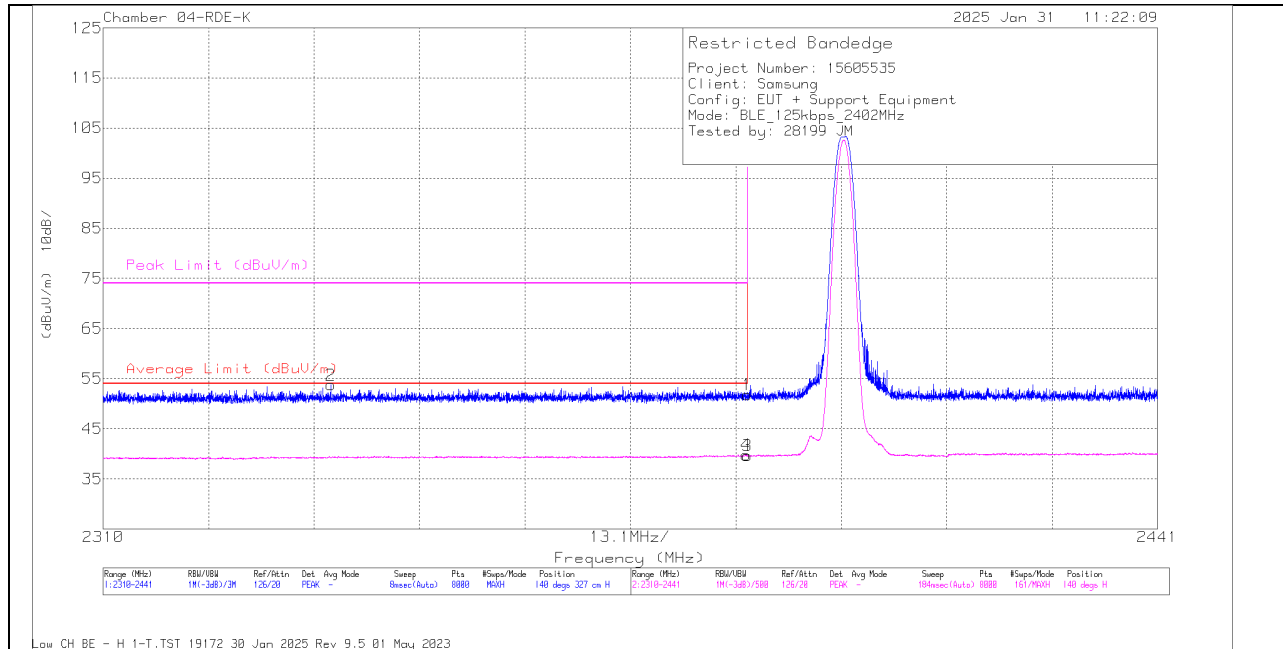
OFS and chamber correlation testing had been performed and chamber measured test result is the worst-case test result.

10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. BLE (125kbps)

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

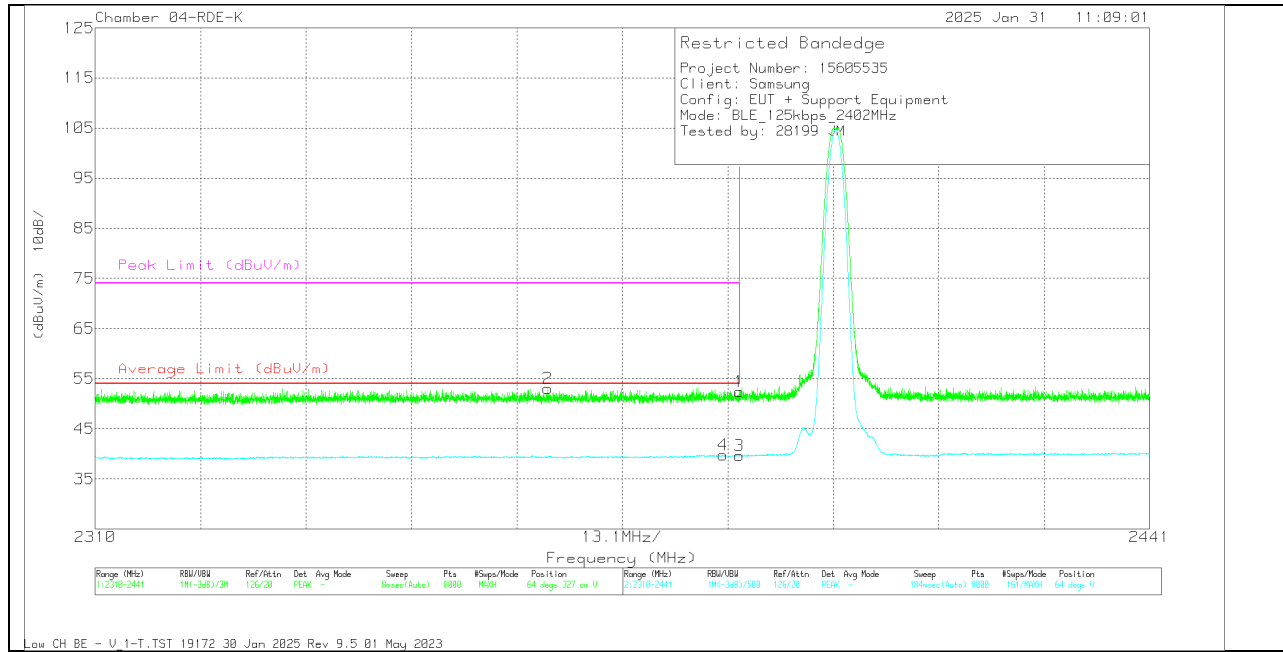


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	206808 ACF (dB/m)	Amp/Cbl/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2338.267	56.92	Pk	32.1	-35.3	53.72	-	-	74	-20.28	140	327	H
4	2389.887	42.7	V1TR	32.3	-35.2	39.8	54	-14.2	-	-	140	327	H
1	2390	54.64	Pk	32.3	-35.2	51.74	-	-	74	-22.26	140	327	H
3	2390	42.51	V1TR	32.3	-35.2	39.61	54	-14.39	-	-	140	327	H

Pk - Peak detector

V1TR - U-NII: VB=1/Ton, RMS Average where: Ton is packet duration

VERTICAL RESULT



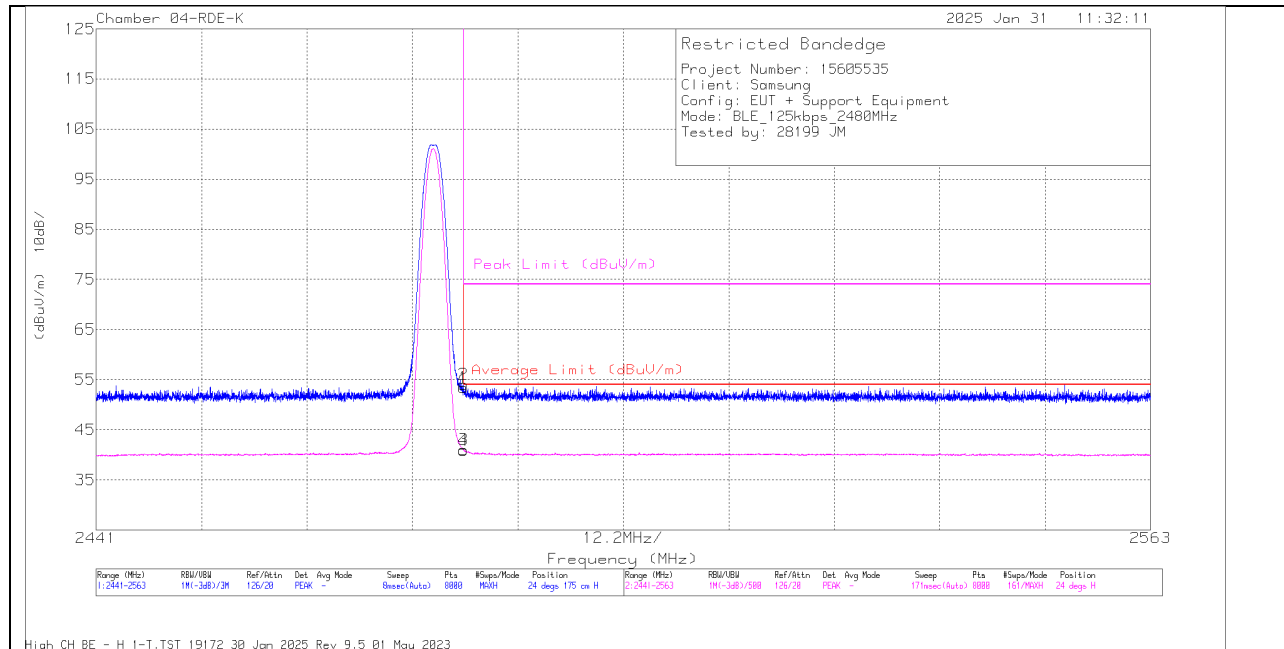
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	206808 ACF (dB/m)	Amp/Cbl/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2366.222	56.05	Pk	32.2	-35.2	53.05	-	-	74	-20.95	64	327	V
4	2387.987	42.55	V1TR	32.3	-35.1	39.75	54	-14.25	-	-	64	327	V
1	2390	55.34	Pk	32.3	-35.2	52.44	-	-	74	-21.56	64	327	V
3	2390	42.57	V1TR	32.3	-35.2	39.67	54	-14.33	-	-	64	327	V

Pk - Peak detector

V1TR - U-NII: VB=1/Ton, RMS Average where: Ton is packet duration

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

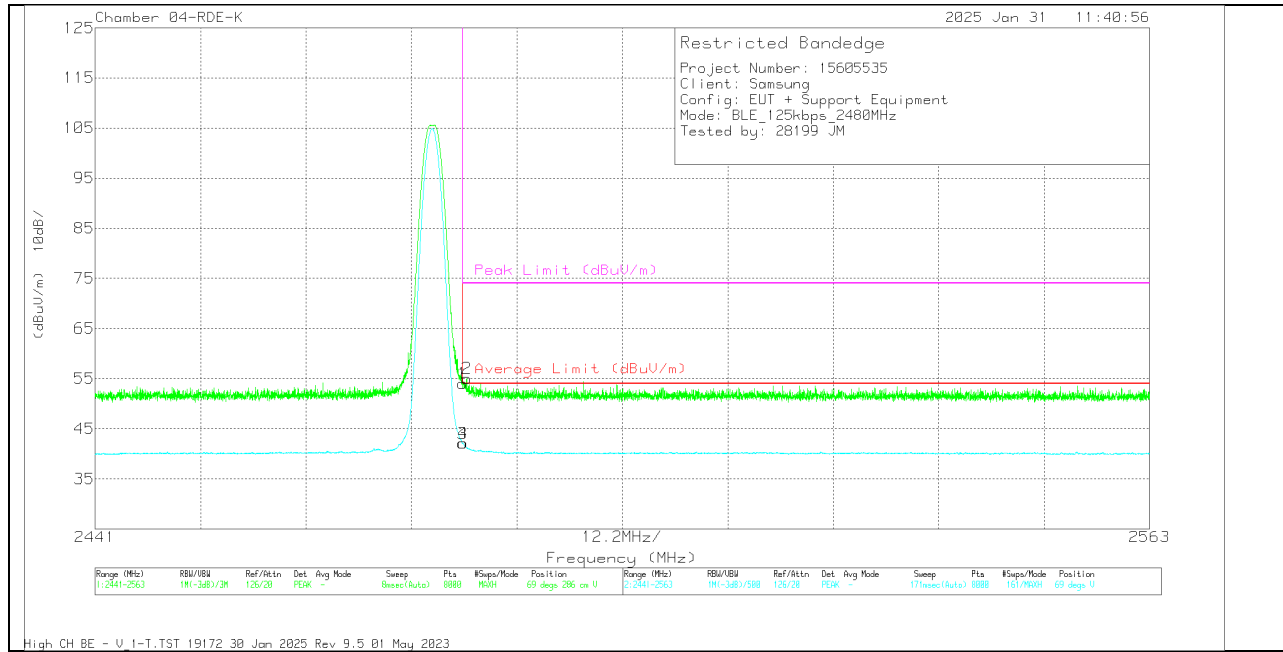


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	206808 ACF (dB/m)	Amp/Cbl/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2483.5	55.63	Pk	32.6	-34.8	53.43	-	-	74	-20.57	24	175	H
3	2483.5	43.19	V1TR	32.6	-34.8	40.99	54	-13.01	-	-	24	175	H
4	2483.507	43.14	V1TR	32.6	-34.8	40.94	54	-13.06	-	-	24	175	H
2	2483.523	56.25	Pk	32.6	-34.8	54.05	-	-	74	-19.95	24	175	H

Pk - Peak detector

V1TR - U-NII: VB=1/Ton, RMS Average where: Ton is packet duration

VERTICAL RESULT



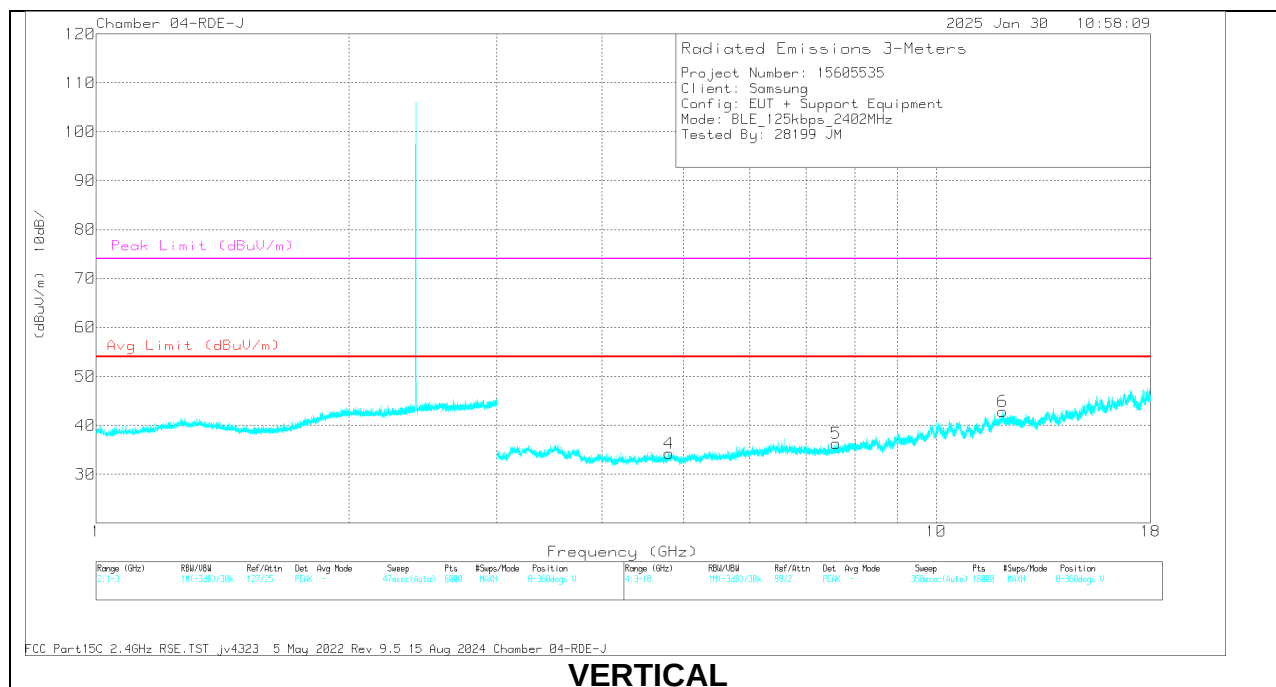
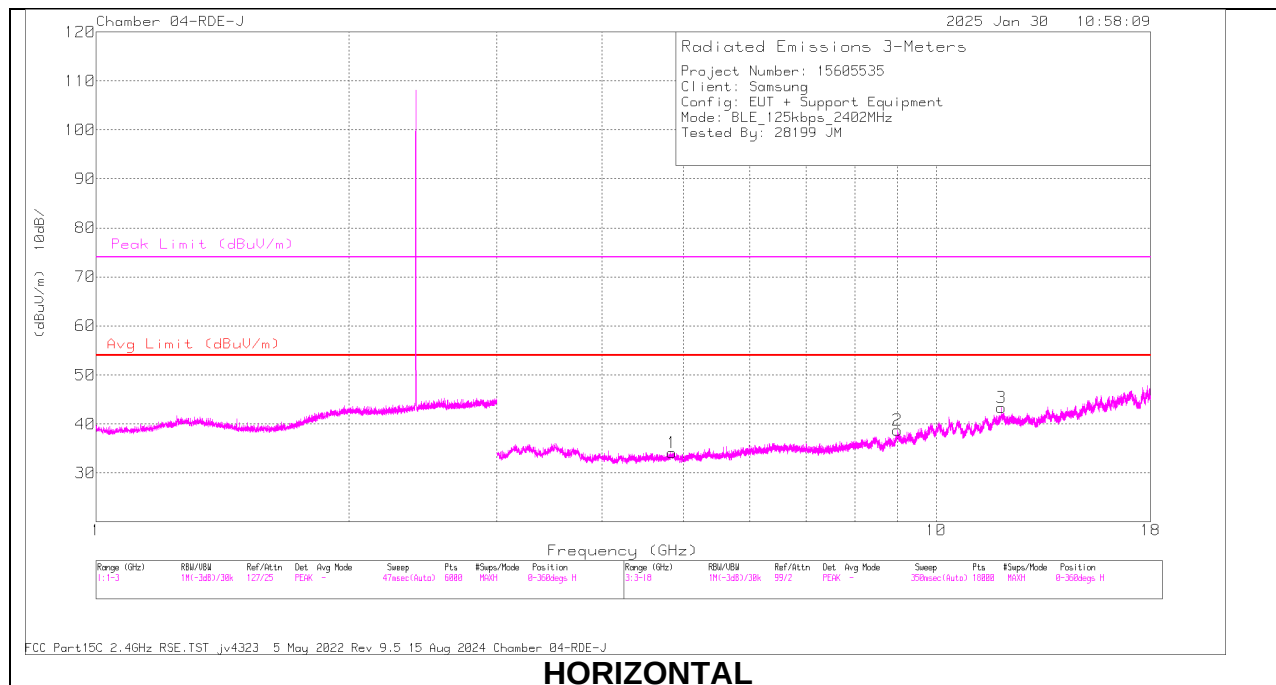
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	206808 ACF (dB/m)	Amp/Cbl/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2483.5	56.26	Pk	32.6	-34.8	54.06	-	-	74	-19.94	69	286	V
3	2483.5	44.28	V1TR	32.6	-34.8	42.08	54	-11.92	-	-	69	286	V
4	2483.599	44.29	V1TR	32.6	-34.8	42.09	54	-11.91	-	-	69	286	V
2	2483.995	57.23	Pk	32.6	-34.8	55.03	-	-	74	-18.97	69	286	V

Pk - Peak detector

V1TR - U-NII: VB=1/Ton, RMS Average where: Ton is packet duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



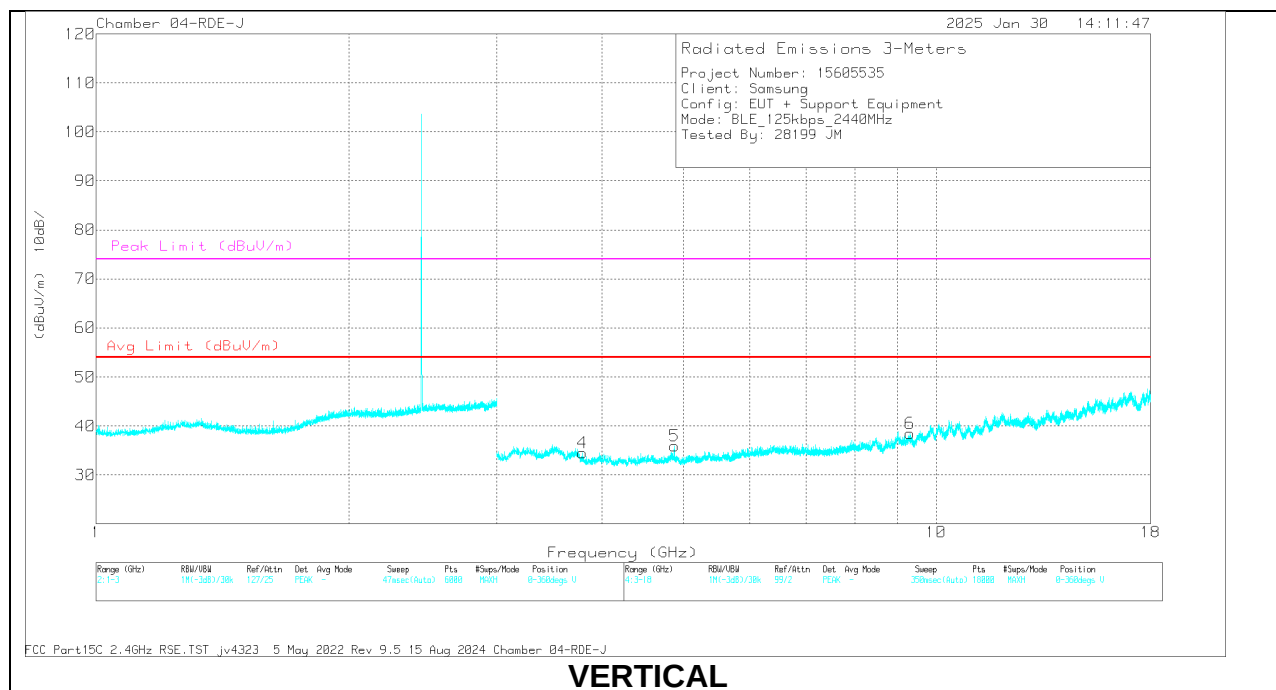
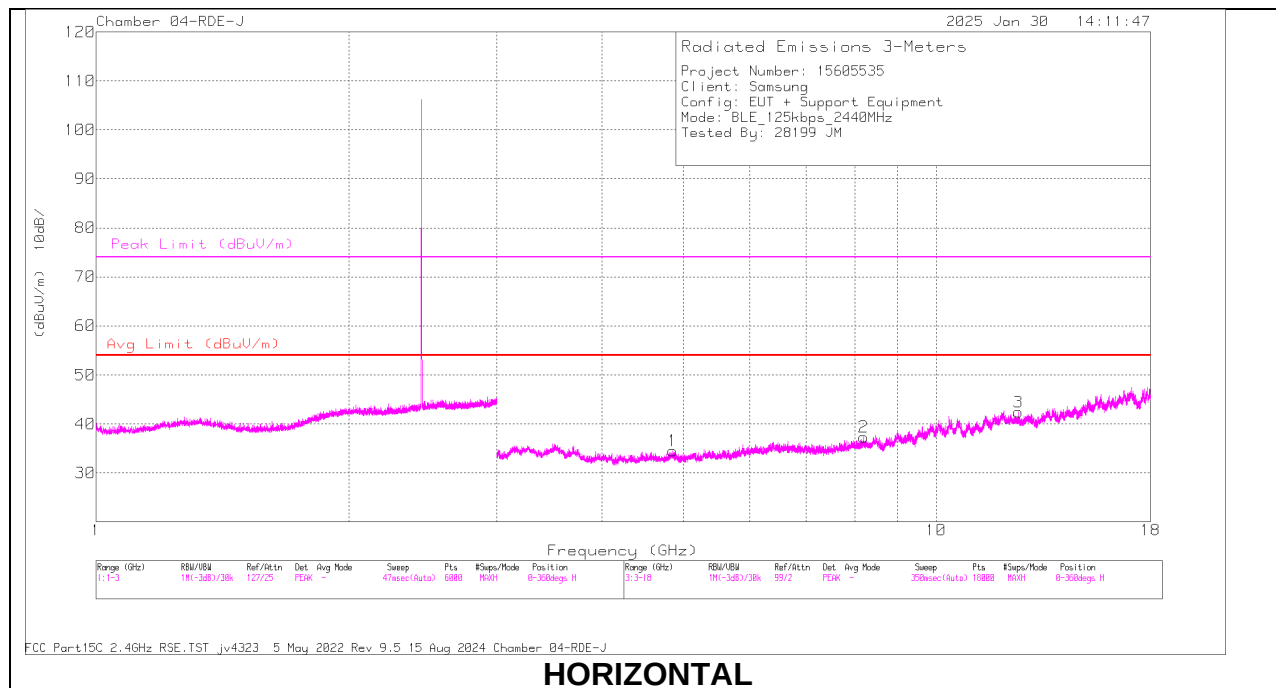
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB/m)	Amp/Cbl/Fitr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.843193	55.18	PK-U	34.3	-44.7	44.78	54	-9.22	74	-29.22	226	216	H
2	8.979529	51.88	PK-U	36.1	-40.3	47.68	-	-	-	-	294	109	H
3	* 11.970939	51.33	PK-U	39.7	-39.1	51.93	54	-2.07	74	-22.07	215	334	H
4	* 4.803773	55.4	PK-U	34.3	-45.1	44.6	54	-9.4	74	-29.4	282	112	V
5	* 7.592237	51.74	PK-U	35.7	-41.7	45.74	54	-8.26	74	-28.26	72	283	V
6	* 11.994213	51.59	PK-U	39.7	-39.3	51.99	54	-2.01	74	-22.01	93	111	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U: Maximum Peak

NOTE: According to ANSI C63.10 Section 6.6.4.3 NOTE 1— Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

MID CHANNEL RESULTS



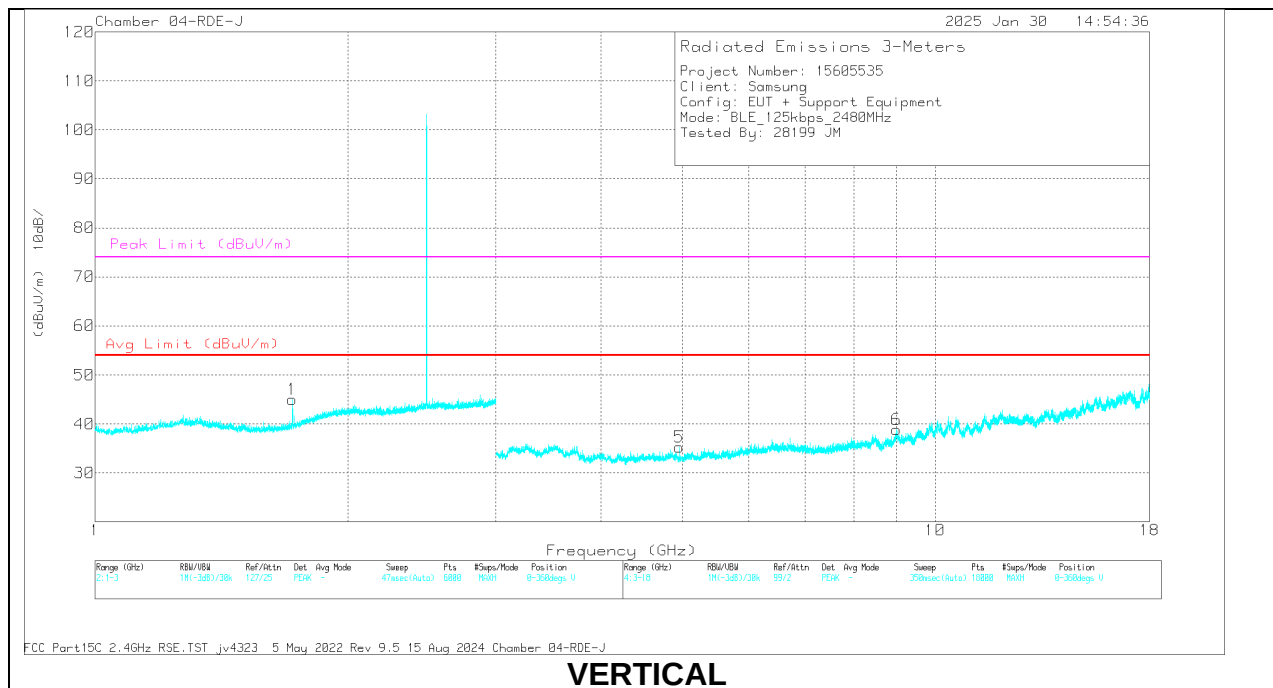
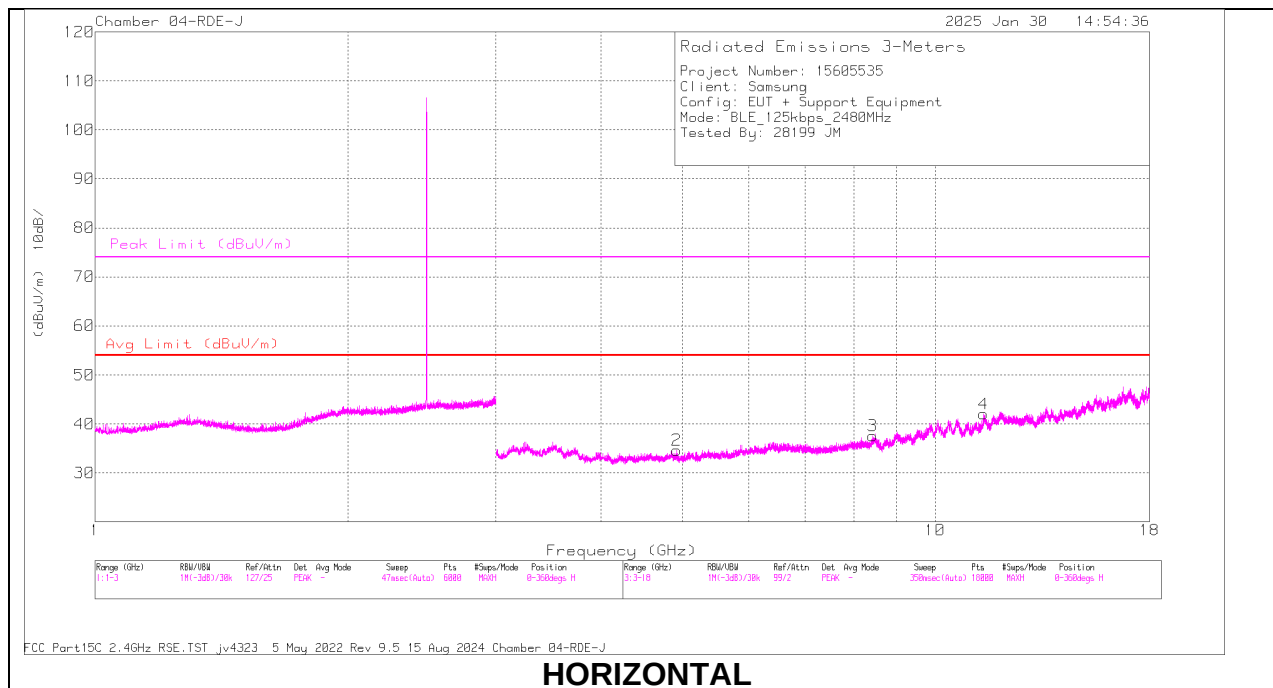
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB/m)	Amp/Cbl/Filtr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.864336	54.06	PK-U	34.3	-44.5	43.86	54	-10.14	74	-30.14	3	102	H
2	* 8.223961	50.81	PK-U	36	-40.7	46.11	54	-7.89	74	-27.89	357	365	H
3	* 12.547997	51.78	PK-U	39.2	-39.3	51.68	54	-2.32	74	-22.32	289	300	H
4	* 3.794929	53.68	PK-U	34	-44	43.68	54	-10.32	74	-30.32	224	184	V
5	* 4.880532	56.68	PK-U	34.3	-44.6	46.38	54	-7.62	74	-27.62	287	167	V
6	9.518744	51.49	PK-U	36.9	-40.3	48.09	-	-	-	-	335	195	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U: Maximum Peak

NOTE: According to ANSI C63.10 Section 6.6.4.3 NOTE 1— Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB/m)	Amp/Cbl/Pa d (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.718317	58.03	PK-U	29	-37.1	49.93	-	-	-	-	176	122	V
2	* 4.938103	53.69	PK-U	34.3	-44.6	43.39	54	-10.61	74	-30.61	151	203	H
3	* 8.427863	51.42	PK-U	36	-40.2	47.22	54	-6.78	74	-26.78	341	207	H
4	* 11.413811	52.38	PK-U	38.2	-39.9	50.68	54	-3.32	74	-23.32	20	266	H
5	* 4.959174	55.11	PK-U	34.2	-44.7	44.61	54	-9.39	74	-29.39	275	227	V
6	8.992762	52.07	PK-U	36.1	-40	48.17	-	-	-	-	322	137	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

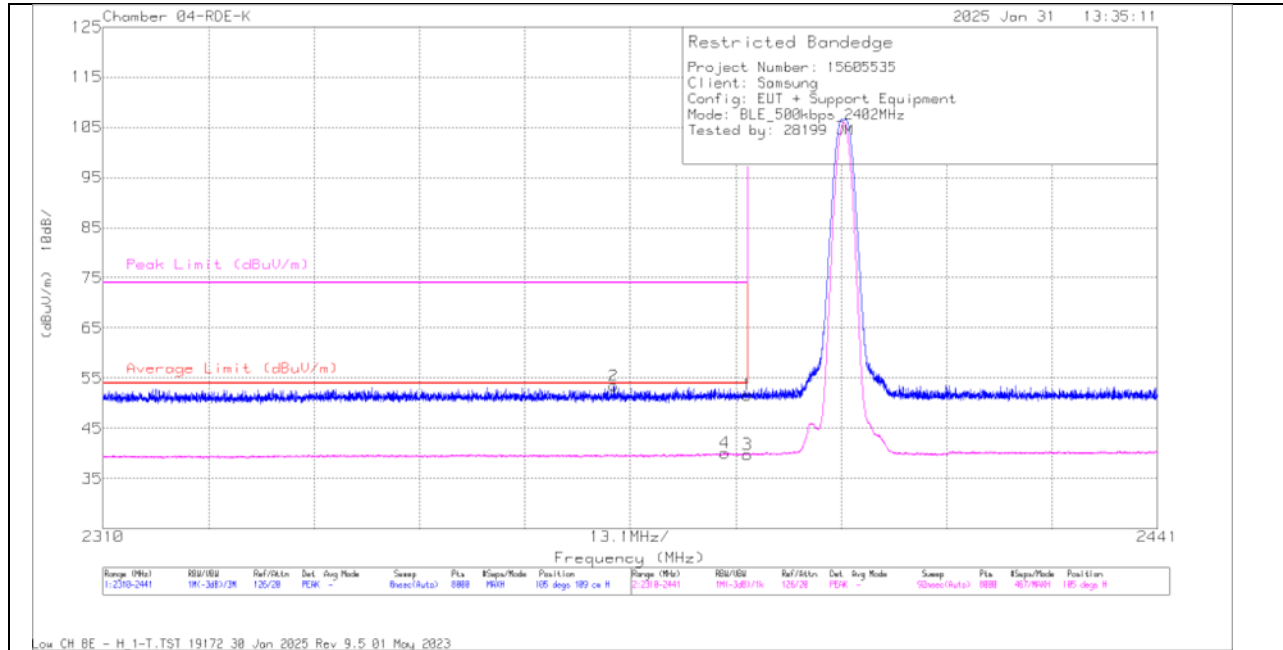
PK-U: Maximum Peak

NOTE: According to ANSI C63.10 Section 6.6.4.3 NOTE 1— Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

10.1.2. BLE (500kbps)

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

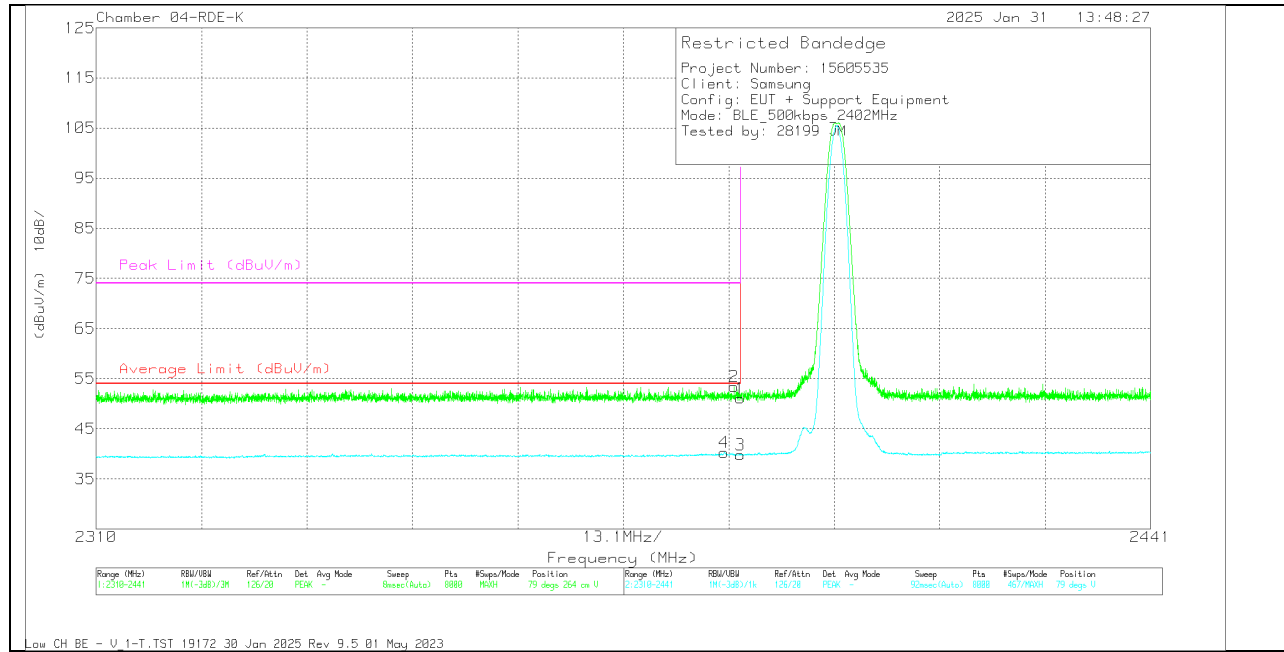


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	206808 ACF (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2373.428	56.48	Pk	32.2	-35.2	53.48	-	-	74	-20.52	105	109	H
4	2387.267	42.92	V1TR	32.3	-35.1	40.12	54	-13.88	-	-	105	109	H
1	2390	54.59	Pk	32.3	-35.2	51.69	-	-	74	-22.31	105	109	H
3	2390	42.67	V1TR	32.3	-35.2	39.77	54	-14.23	-	-	105	109	H

Pk - Peak detector

V1TR - U-NII: VB=1/Ton, RMS Average where: Ton is packet duration

VERTICAL RESULT



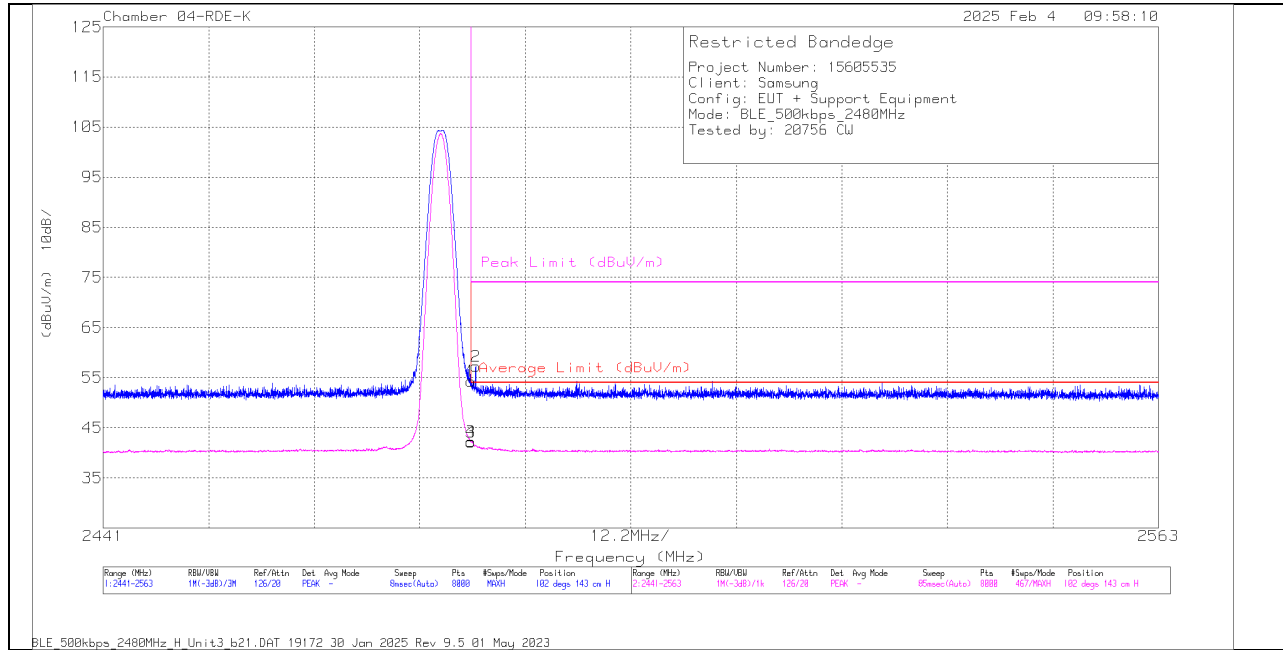
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	206808 ACF (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2388.036	43.08	V1TR	32.3	-35.1	40.28	54	-13.72	-	-	79	264	V
2	2389.281	56.29	Pk	32.3	-35.2	53.39	-	-	74	-20.61	79	264	V
1	2390	53.99	Pk	32.3	-35.2	51.09	-	-	74	-22.91	79	264	V
3	2390	42.72	V1TR	32.3	-35.2	39.82	54	-14.18	-	-	79	264	V

Pk - Peak detector

V1TR - U-NII: VB=1/Ton, RMS Average where: Ton is packet duration

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

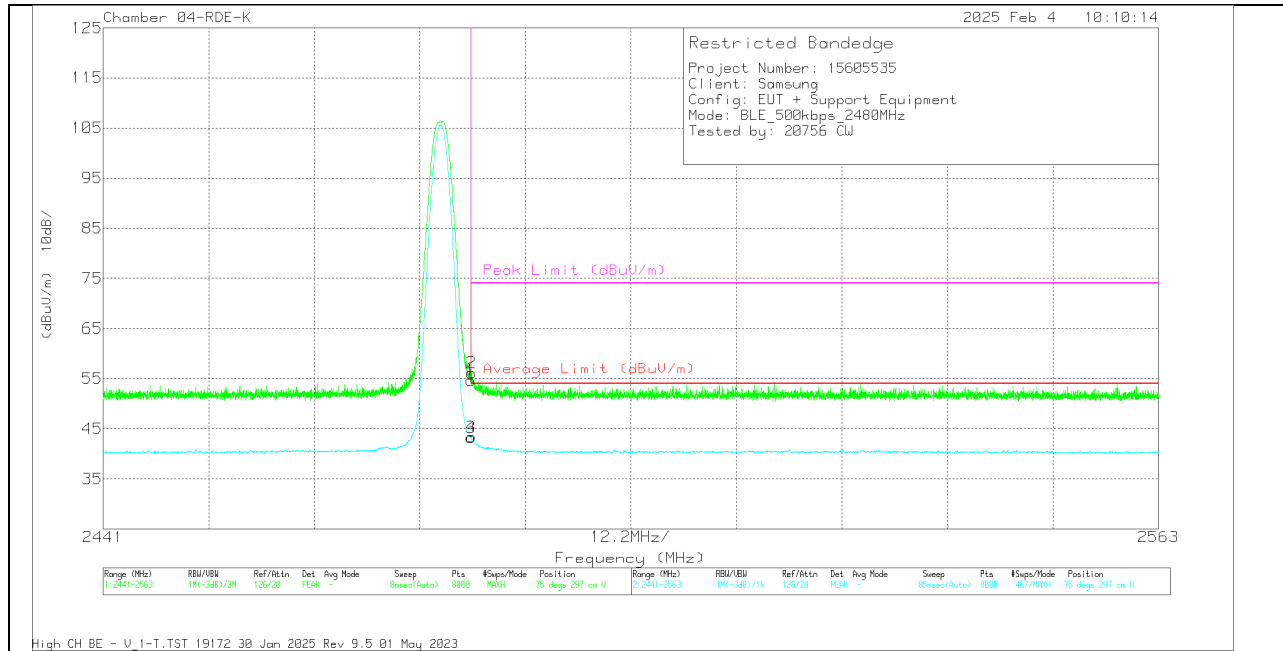


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	206808 ACF (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2483.5	56.52	Pk	32.6	-34.8	54.32	-	-	74	-19.68	102	143	H
3	2483.5	44.38	V1TR	32.6	-34.8	42.18	54	-11.82	-	-	102	143	H
4	2483.538	44.41	V1TR	32.6	-34.8	42.21	54	-11.79	-	-	102	143	H
2	2484.072	59.43	Pk	32.6	-34.8	57.23	-	-	74	-16.77	102	143	H

Pk - Peak detector

V1TR - $VB=1/Ton$, where: Ton is packet duration

VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	206808 ACF (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2483.5	56.81	Pk	32.6	-34.8	54.61	-	-	74	-19.39	75	297	V
3	2483.5	45.48	V1TR	32.6	-34.8	43.28	54	-10.72	-	-	75	297	V
2	2483.553	58.34	Pk	32.6	-34.8	56.14	-	-	74	-17.86	75	297	V
4	2483.553	45.54	V1TR	32.6	-34.8	43.34	54	-10.66	-	-	75	297	V

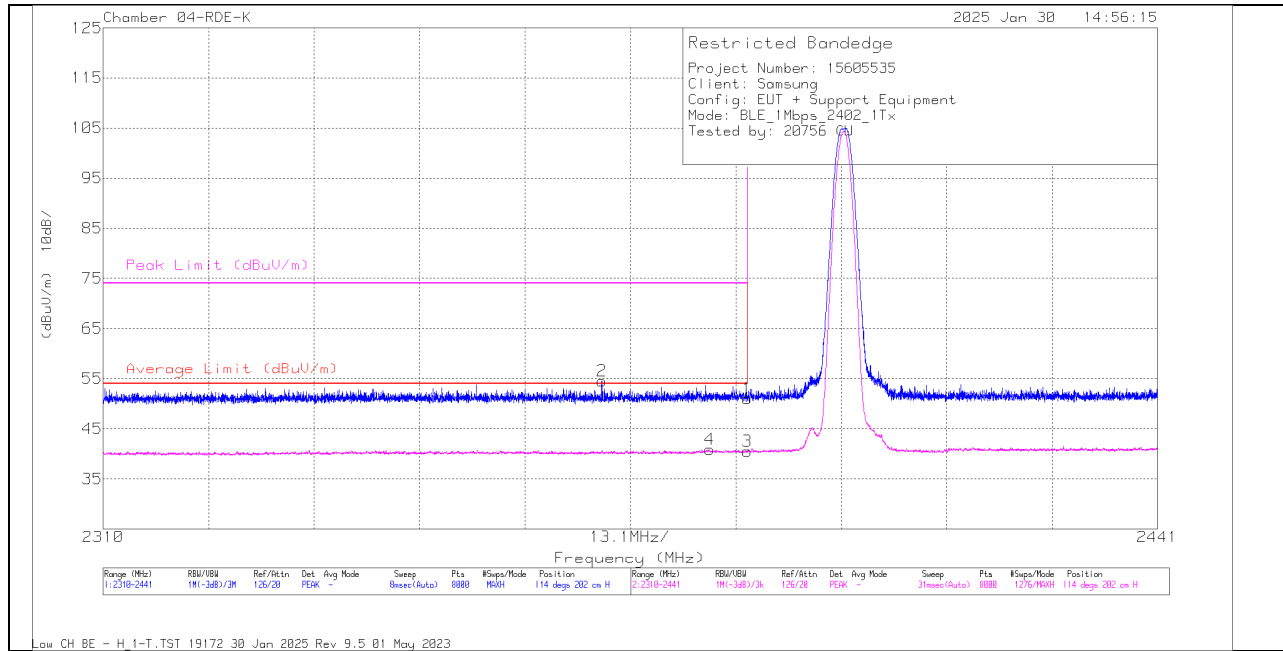
Pk - Peak detector

V1TR: VB=1/Ton, where: Ton is packet duration

10.1.3. BLE (1Mbps)

BANDEDGE (LOW CHANNEL)

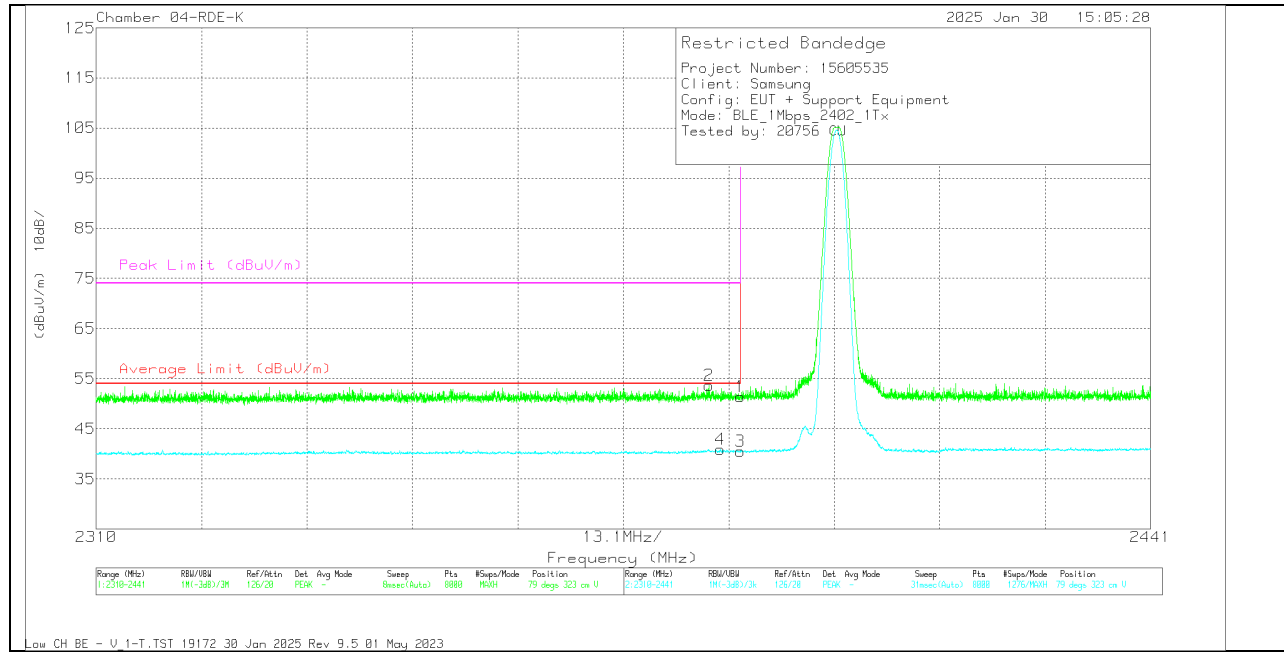
HORIZONTAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	206808 ACF (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2371.954	57.57	Pk	32.2	-35.2	54.57	-	-	74	-19.43	114	202	H
4	* 2385.351	43.68	V1TR	32.3	-35.1	40.88	54	-13.12	-	-	114	202	H
1	* 2390	53.88	Pk	32.3	-35.2	50.98	-	-	74	-23.02	114	202	H
3	* 2390	43.42	V1TR	32.3	-35.2	40.52	54	-13.48	-	-	114	202	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
V1TR - U-NII: VB=1/Ton, RMS Average where: Ton is packet duration

VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	206808 ACF (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2386.12	56.45	Pk	32.3	-35.1	53.65	-	-	74	-20.35	79	323	V
4	* 2387.561	43.68	V1TR	32.3	-35.1	40.88	54	-13.12	-	-	79	323	V
1	* 2390	54.31	Pk	32.3	-35.2	51.41	-	-	74	-22.59	79	323	V
3	* 2390	43.4	V1TR	32.3	-35.2	40.5	54	-13.5	-	-	79	323	V

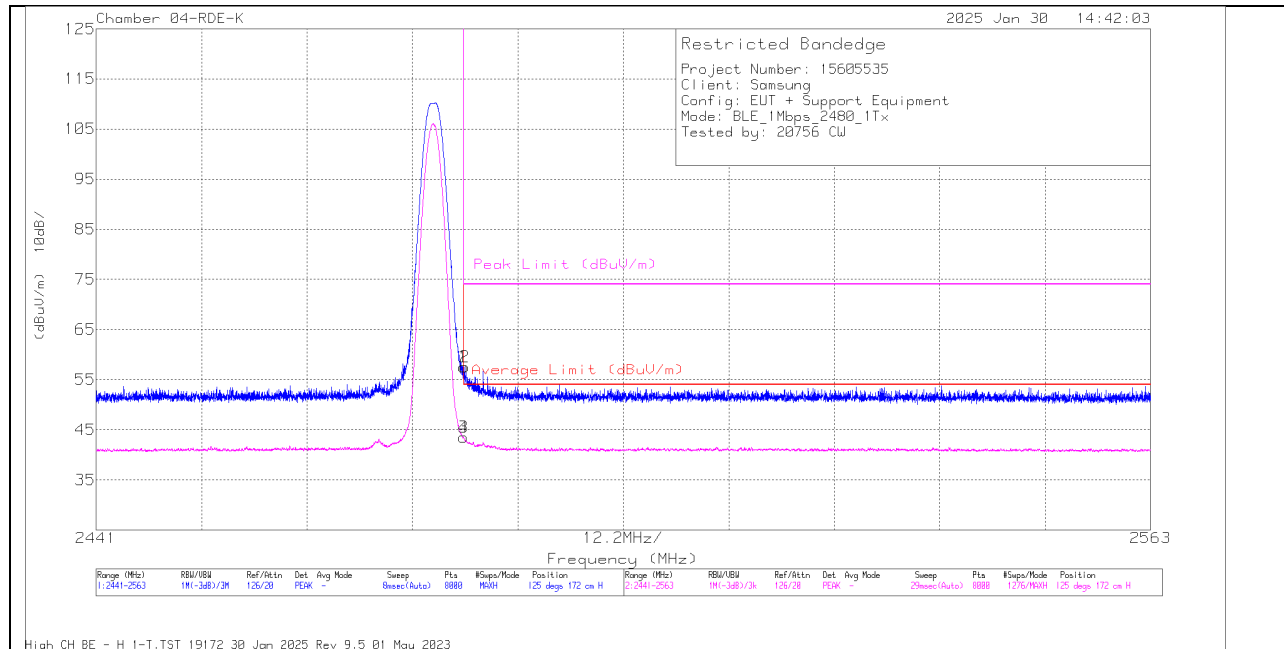
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

V1TR - U-NII: VB=1/Ton, RMS Average where: Ton is packet duration

BANDEDGE (HIGH CHANNEL)

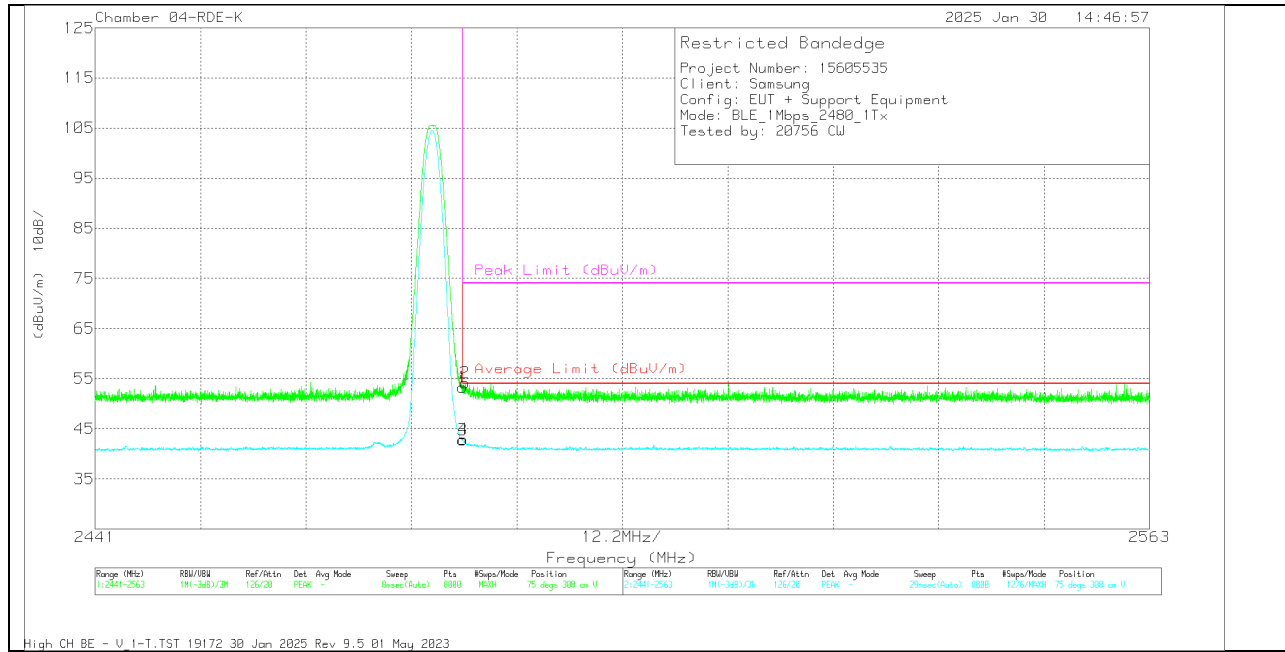
HORIZONTAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	206808 ACF (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	59.75	Pk	32.6	-34.8	57.55	-	-	74	-16.45	125	172	H
3	* 2483.5	45.67	V1TR	32.6	-34.8	43.47	54	-10.53	-	-	125	172	H
4	* 2483.507	45.66	V1TR	32.6	-34.8	43.46	54	-10.54	-	-	125	172	H
2	* 2483.675	59.75	Pk	32.6	-34.8	57.55	-	-	74	-16.45	125	172	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
V1TR - U-NII: VB=1/Ton, RMS Average where: Ton is packet duration

VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	206808 ACF (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2483.5	55.52	Pk	32.6	-34.8	53.32	-	-	74	-20.68	75	308	V
3	* 2483.5	44.96	V1TR	32.6	-34.8	42.76	54	-11.24	-	-	75	308	V
4	* 2483.553	45.13	V1TR	32.6	-34.8	42.93	54	-11.07	-	-	75	308	V
2	* 2483.812	56.4	Pk	32.6	-34.8	54.2	-	-	74	-19.8	75	308	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

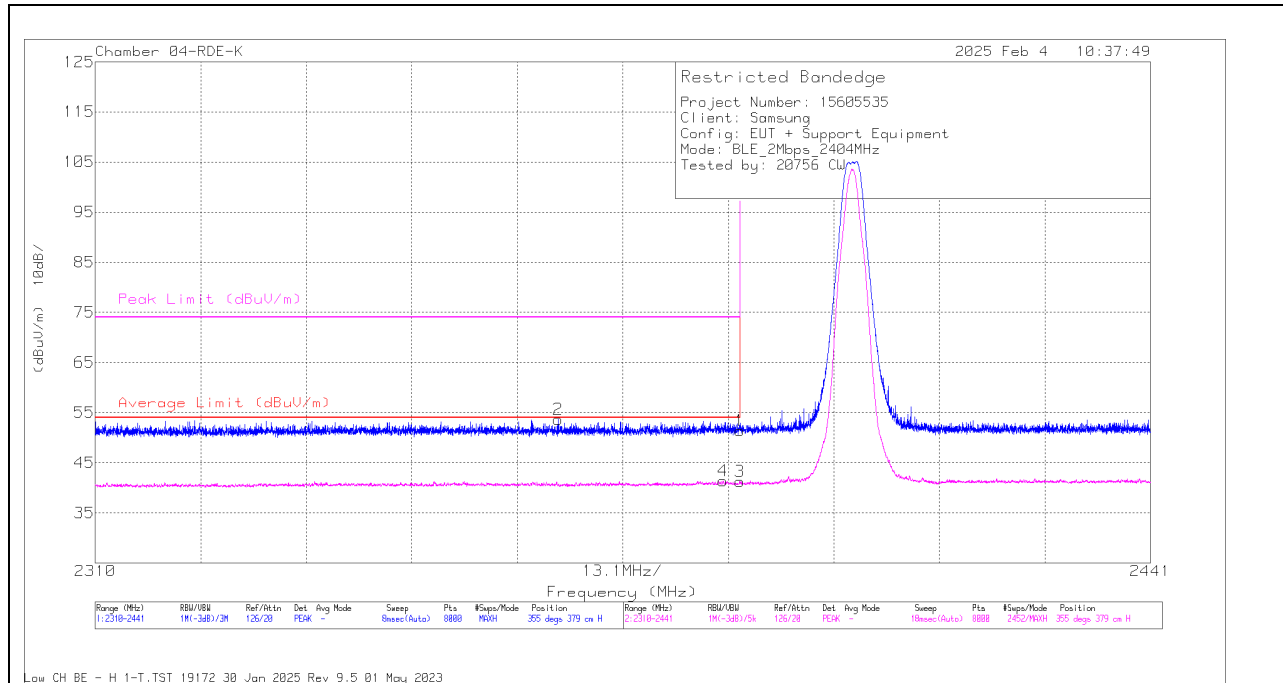
Pk - Peak detector

V1TR - U-NII: VB=1/Ton, RMS Average where: Ton is packet duration

10.1.4. BLE (2Mbps)

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

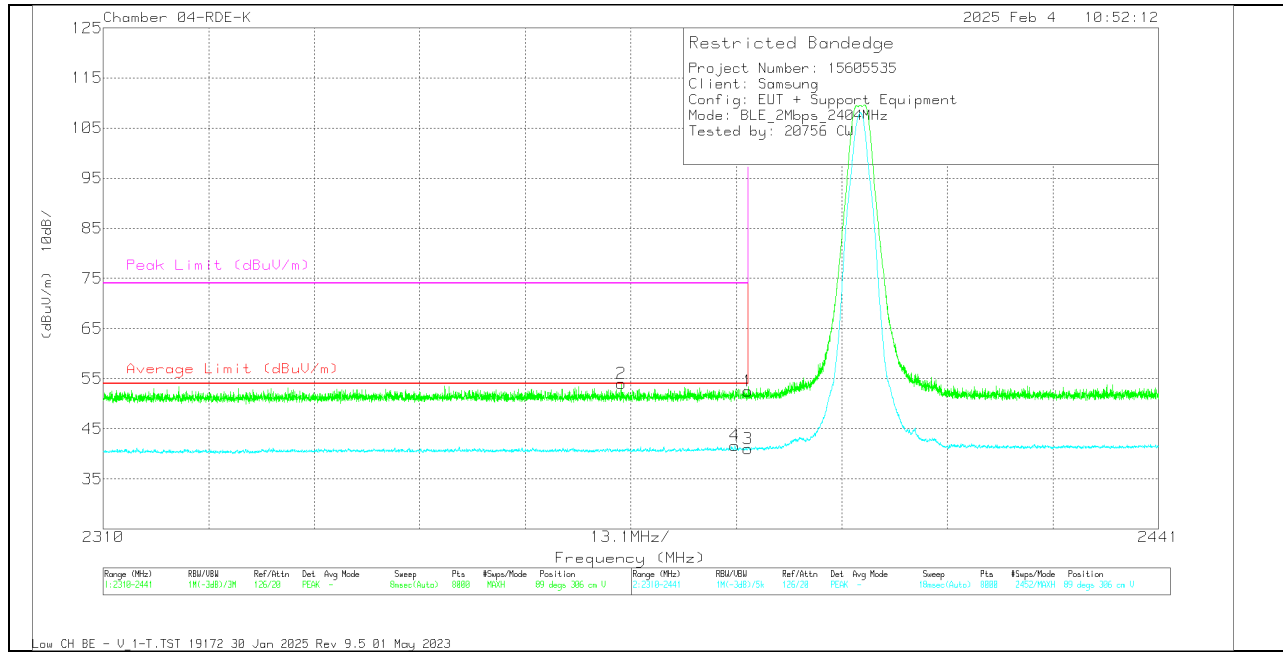


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	206808 ACF (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2367.467	56.67	Pk	32.2	-35.2	53.67	-	-	74	-20.33	355	379	H
4	2387.938	44.23	V1TR	32.3	-35.1	41.43	54	-12.57	-	-	355	379	H
1	2390	54.33	Pk	32.3	-35.2	51.43	-	-	74	-22.57	355	379	H
3	2390	44.2	V1TR	32.3	-35.2	41.3	54	-12.7	-	-	355	379	H

Pk - Peak detector

V1TR: VB=1/Ton, where: Ton is packet duration

VERTICAL RESULT



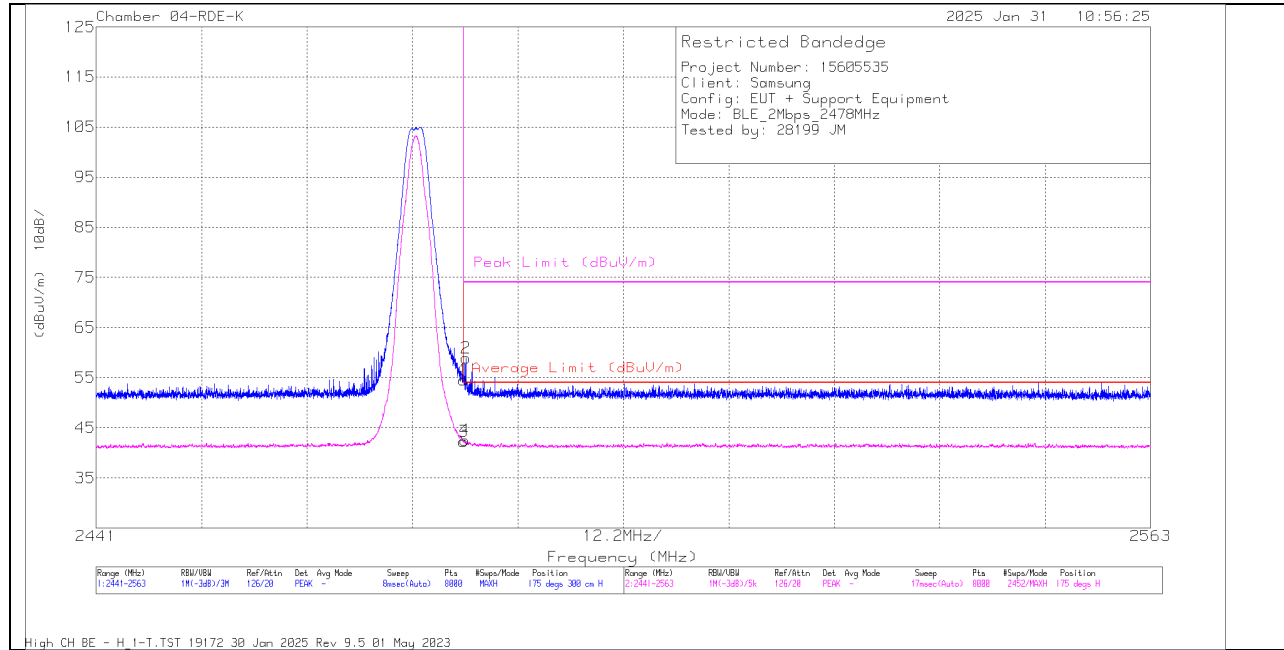
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	206808 ACF (dB/m)	Amp/Cbl/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2374.296	57	Pk	32.2	-35.2	54	-	-	74	-20	89	306	V
4	2388.413	44.43	V1TR	32.3	-35.1	41.63	54	-12.37	-	-	89	306	V
1	2390	55.41	Pk	32.3	-35.2	52.51	-	-	74	-21.49	89	306	V
3	2390	43.92	V1TR	32.3	-35.2	41.02	54	-12.98	-	-	89	306	V

Pk - Peak detector

V1TR: VB=1/Ton, where: Ton is packet duration

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

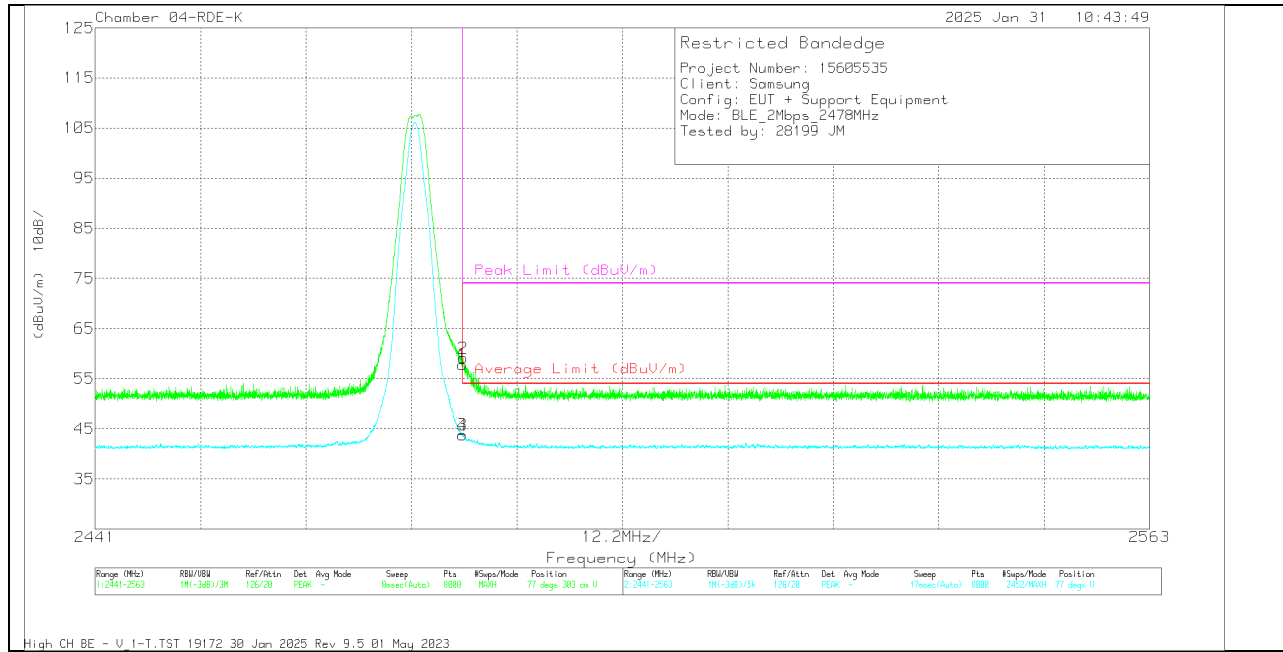


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	206808 ACF (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2483.5	56.73	Pk	32.6	-34.8	54.53	-	-	74	-19.47	175	300	H
3	2483.5	44.46	V1TR	32.6	-34.8	42.26	54	-11.74	-	-	175	300	H
4	2483.629	44.72	V1TR	32.6	-34.8	42.52	54	-11.48	-	-	175	300	H
2	2483.797	61.14	Pk	32.6	-34.8	58.94	-	-	74	-15.06	175	300	H

Pk - Peak detector

V1TR - U-NII: VB=1/Ton, RMS Average where: Ton is packet duration

VERTICAL RESULT



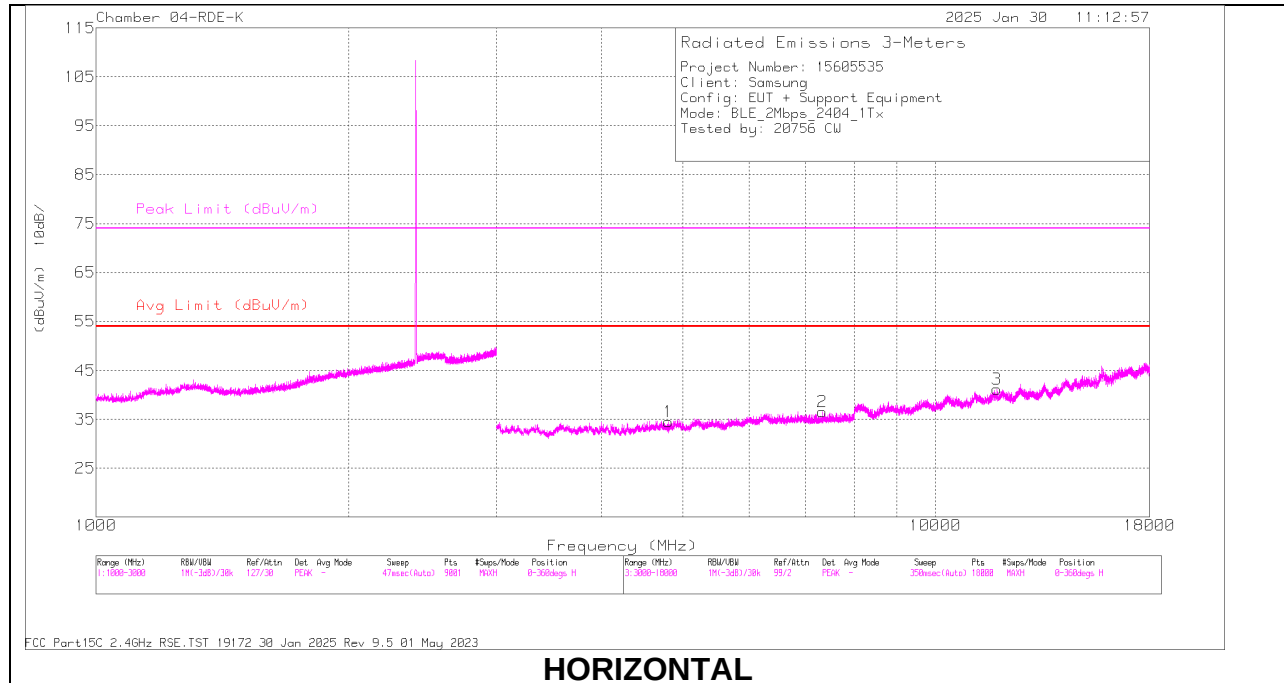
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	206808 ACF (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2483.5	60.03	Pk	32.6	-34.8	57.83	-	-	74	-16.17	77	303	V
3	2483.5	45.94	V1TR	32.6	-34.8	43.74	54	-10.26	-	-	77	303	V
4	2483.507	45.9	V1TR	32.6	-34.8	43.7	54	-10.3	-	-	77	303	V
2	2483.599	61.3	Pk	32.6	-34.8	59.1	-	-	74	-14.9	77	303	V

Pk - Peak detector

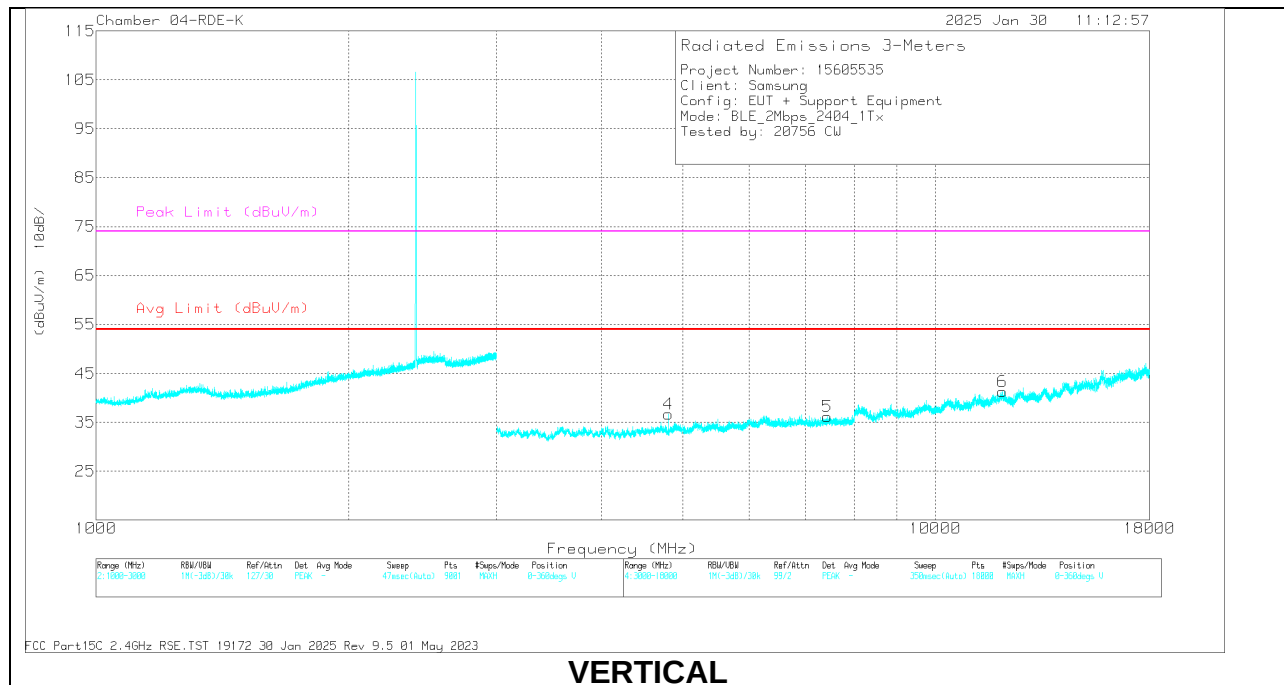
V1TR - U-NII: VB=1/Ton, RMS Average where: Ton is packet duration

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

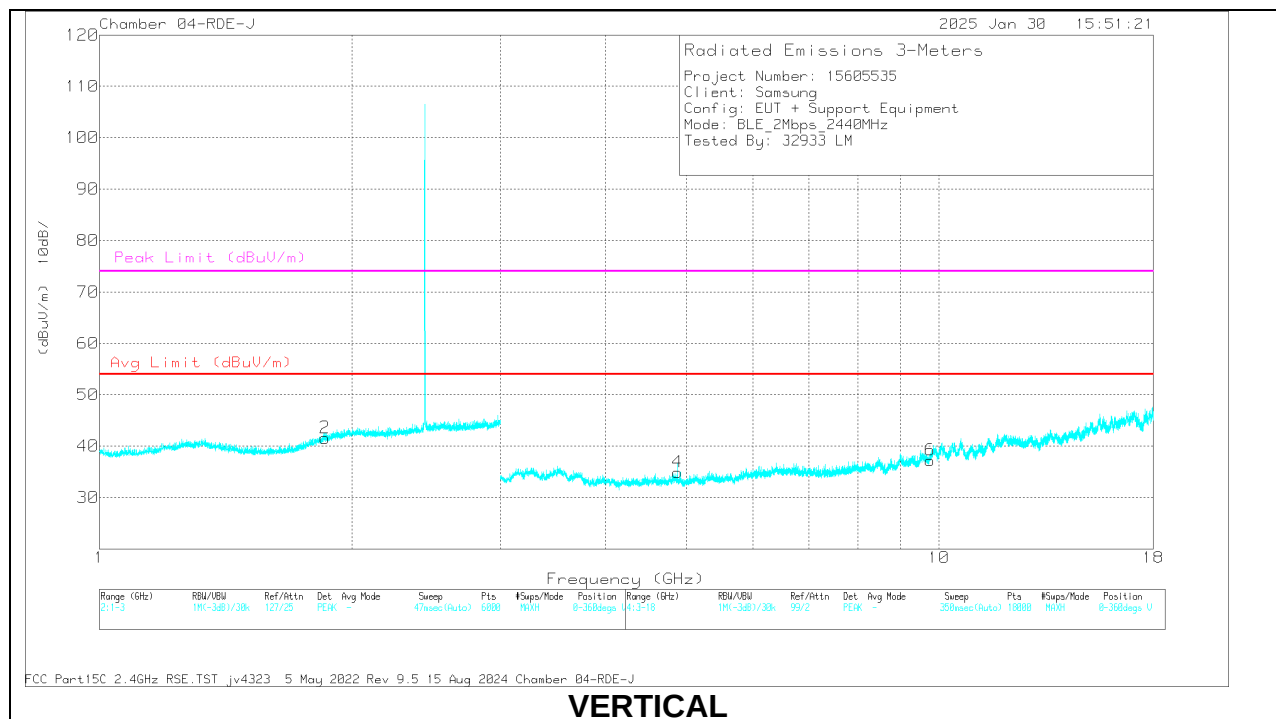
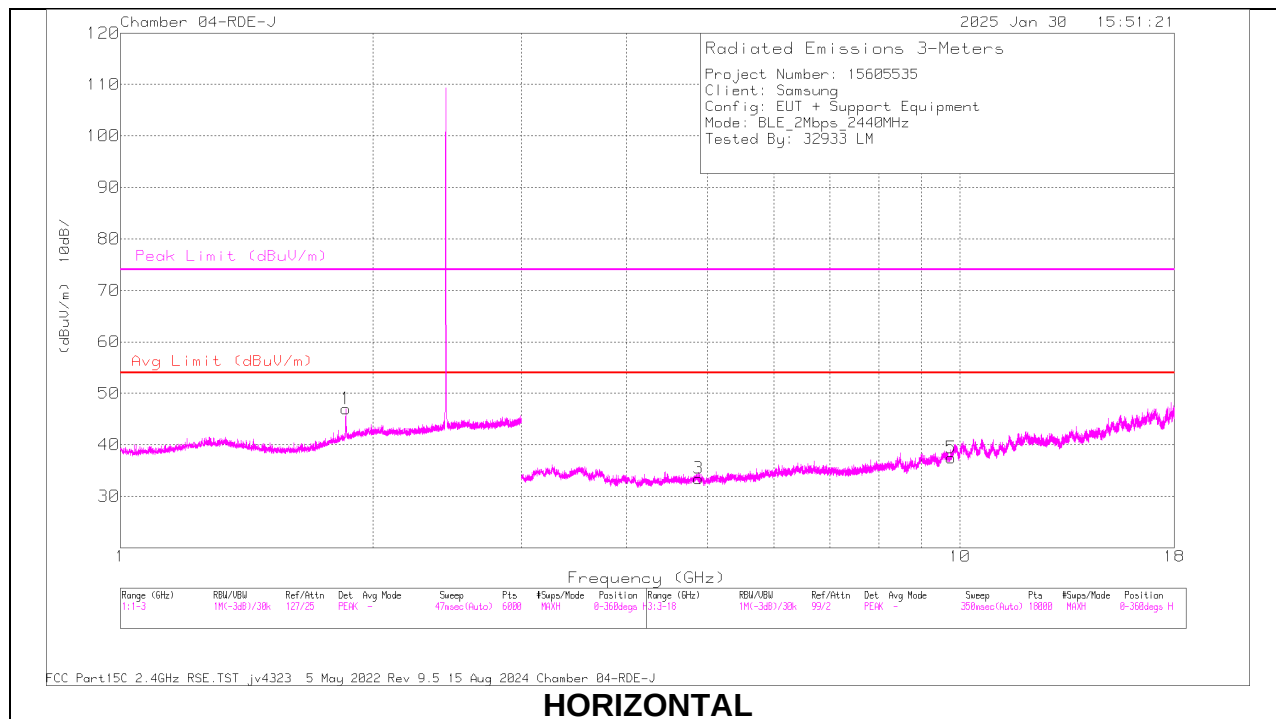
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	206808 ACF (dB/m)	Amp/Cbl/Fitr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4808.973	50.89	PK2	34.1	-40.9	44.09	54	-9.91	74	-29.91	54	268	H
2	* 7331.156	48.57	PK2	35.6	-38.6	45.57	54	-8.43	74	-28.43	340	285	H
3	* 11842.309	47.07	PK2	38.6	-35.1	50.57	54	-3.43	74	-23.43	36	222	H
4	* 4807.155	51.92	PK2	34.1	-41	45.02	54	-8.98	74	-28.98	33	169	V
5	* 7430.145	48.09	PK2	35.6	-38.3	45.39	54	-8.61	74	-28.61	230	130	V
6	* 12027.785	47.16	PK2	38.8	-35	50.96	54	-3.04	74	-23.04	356	197	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

NOTE: According to ANSI C63.10 Section 6.6.4.3 NOTE 1— Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

MID CHANNEL RESULTS



RADIATED EMISSIONS

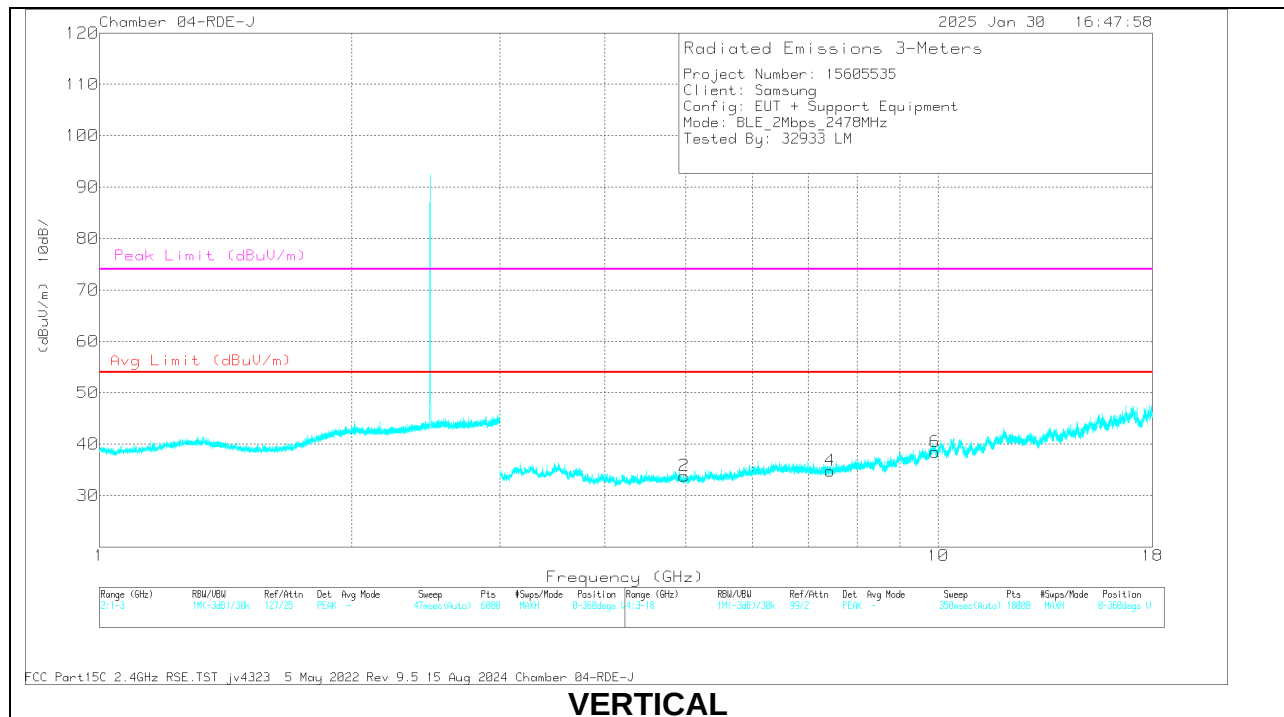
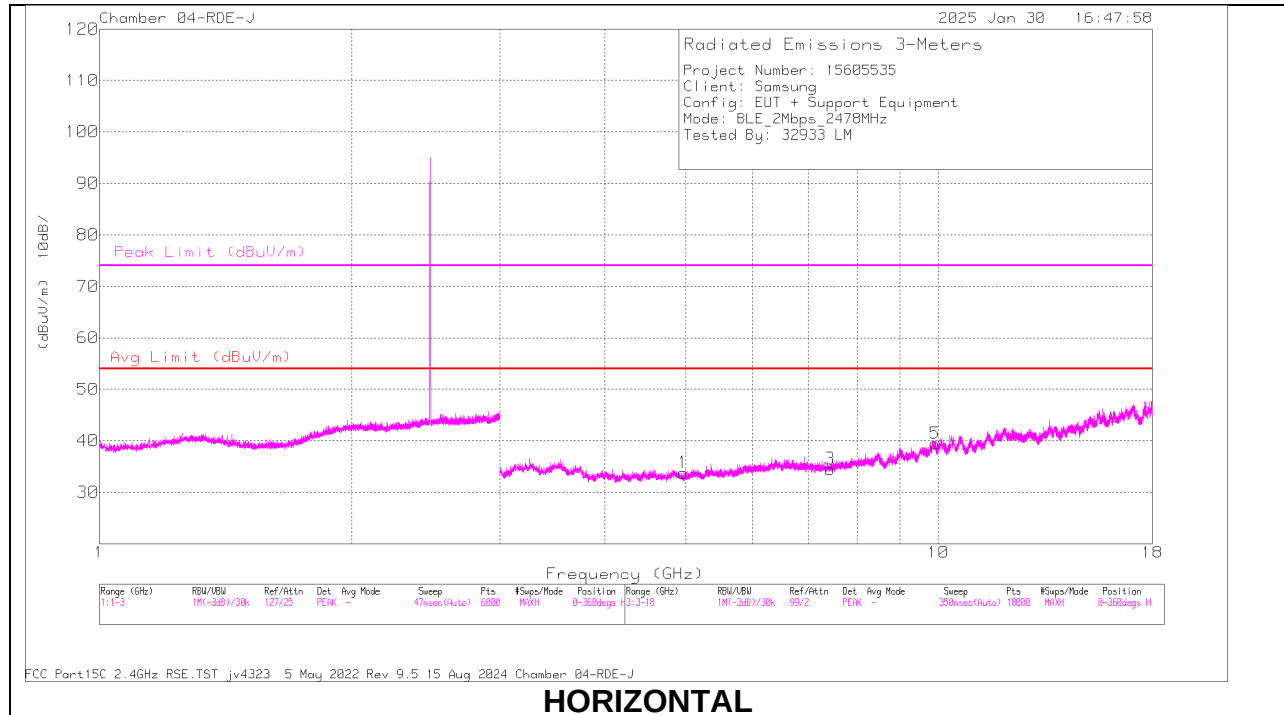
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.854706	58.01	PK-U	30.9	-37	51.91	-	-	-	-	267	176	H
2	1.852586	58.2	PK-U	30.9	-37	52.1	-	-	-	-	282	111	V
3	* 4.879001	56.48	PK-U	34.3	-44.6	46.18	54	-7.82	74	-27.82	289	341	H
4	* 4.880658	56.46	PK-U	34.3	-44.6	46.16	54	-7.84	74	-27.84	274	233	V
5	9.743634	52.98	PK-U	37.2	-41.1	49.08	-	-	-	-	5	147	H
6	9.742079	52	PK-U	37.2	-41.1	48.1	-	-	-	-	265	216	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

NOTE: According to ANSI C63.10 Section 6.6.4.3 NOTE 1— Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB/m)	Amp/Cbl/Filtr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.964562	53.63	PK-U	34.2	-44.7	43.13	54	-10.87	74	-30.87	258	101	H
2	* 4.982525	53.58	PK-U	34.3	-44.6	43.28	54	-10.72	74	-30.72	181	239	V
3	* 7.428503	51.65	PK-U	35.5	-42.1	45.05	54	-8.95	74	-28.95	258	235	H
4	* 7.416298	51.65	PK-U	35.5	-42.1	45.05	54	-8.95	74	-28.95	11	101	V
5	9.898298	51.59	PK-U	37.5	-39.5	49.59	-	-	-	-	284	101	H
6	9.92185	51.62	PK-U	37.5	-39.6	49.52	-	-	-	-	241	232	V

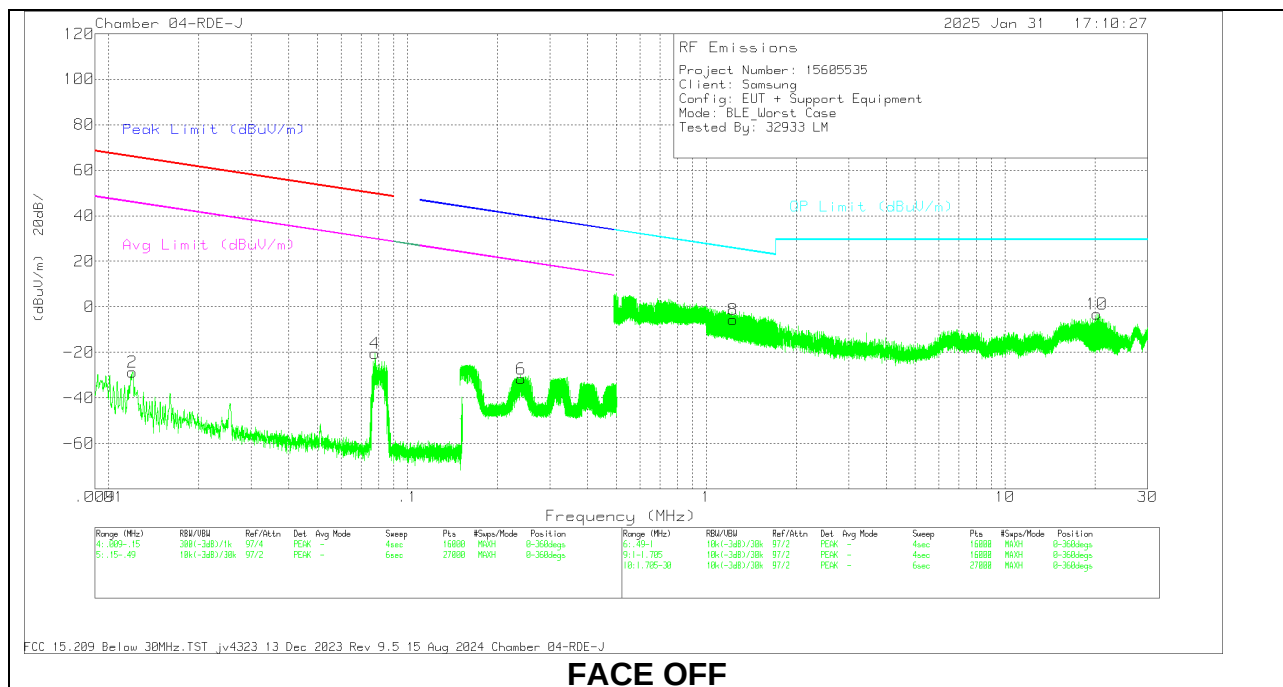
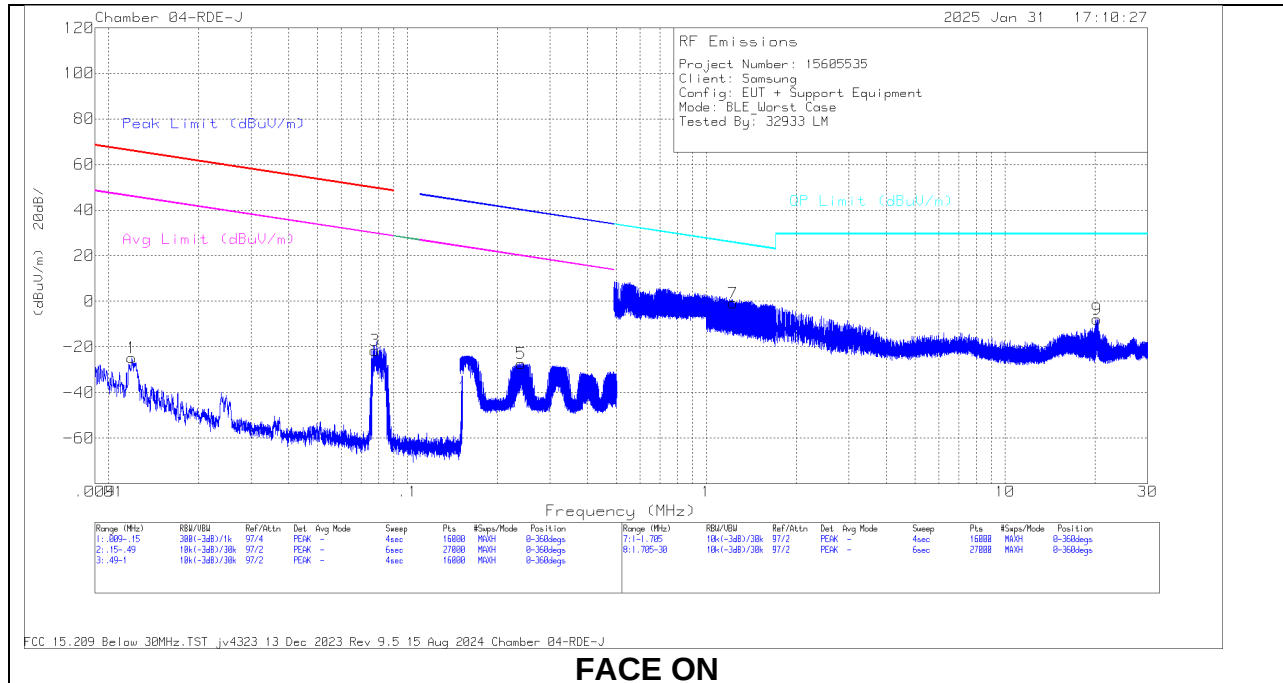
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

NOTE: According to ANSI C63.10 Section 6.6.4.3 NOTE 1— Where limits are specified by regulations for both average and peak detection, if the maximized peak measured value complies with the average limit, then it is unnecessary to perform an average measurement.

10.2. WORST CASE BELOW 30MHz

SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION)



Below 30MHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	CBL/AMP (dB)	Dist Corr 300m	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	FACE
1	.012	25.46	Pk	60.2	-30.4	-80	-24.74	66.04	-90.78	46.04	-70.78	-	-	-	-	0-360	On
2	.012	21.66	Pk	60.1	-30.4	-80	-28.64	65.99	-94.63	45.99	-74.63	-	-	-	-	0-360	Off
4	.0778	36.32	Pk	55.8	-32.6	-80	-20.48	49.76	-70.24	29.76	-50.24	-	-	-	-	0-360	Off
3	.0779	35.3	Pk	55.8	-32.6	-80	-21.5	49.75	-71.25	29.75	-51.25	-	-	-	-	0-360	On
5	.2403	28.55	Pk	56.3	-32.2	-80	-27.35	-	-	-	-	40	-67.35	20	-47.35	0-360	On
6	.2404	24.3	Pk	56.3	-32.2	-80	-31.6	-	-	-	-	40	-71.6	20	-51.6	0-360	Off

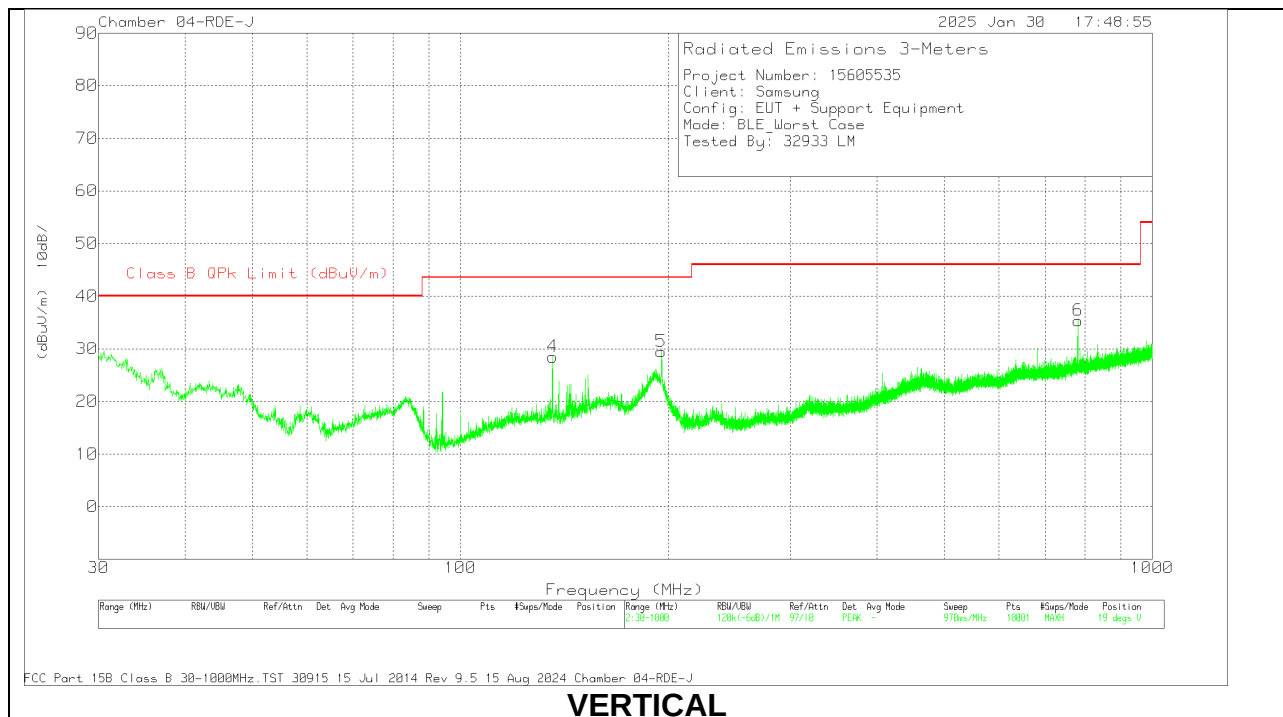
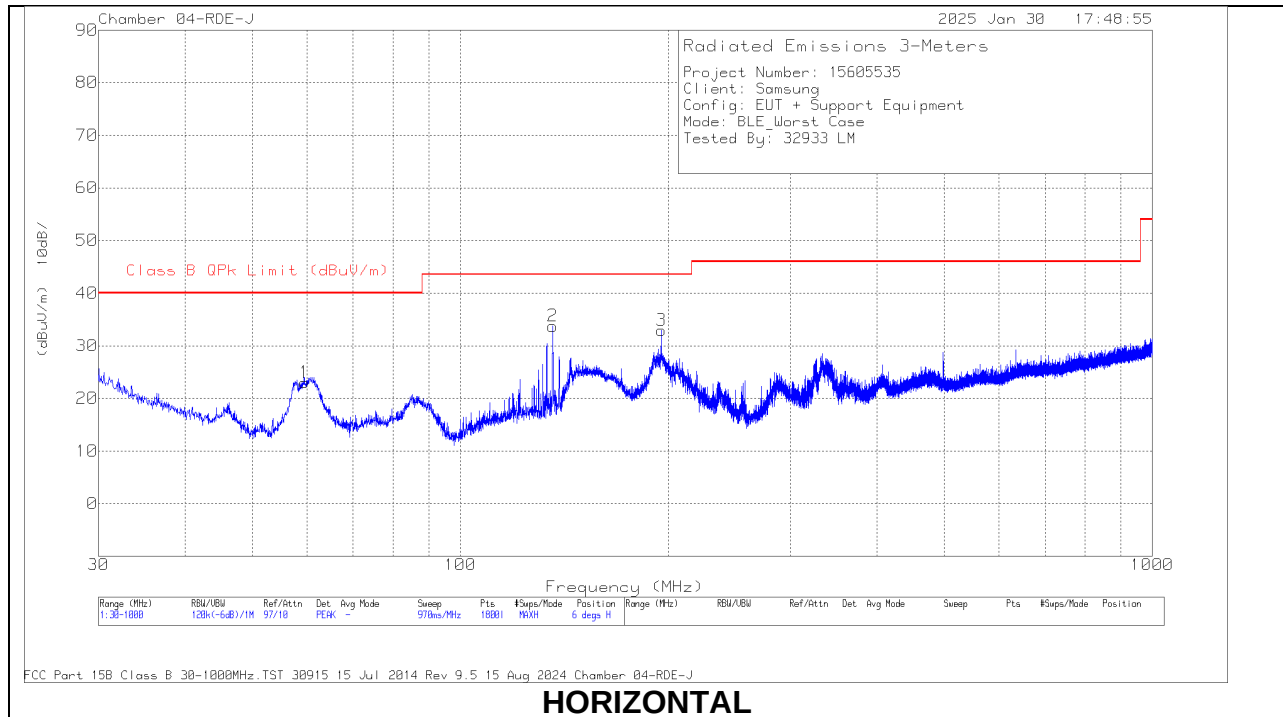
Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	CBL/AMP (dB)	Dist Corr 30m (dB) 40Log	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Face
8	1.2296	20.97	Pk	45.5	-32.1	-40	-5.63	25.83	-31.46	0-360	Off
7	1.2304	25.77	Pk	45.5	-32.1	-40	-.83	25.83	-26.66	0-360	On
9	20.2997	28.67	Pk	34.5	-31	-40	-7.83	29.5	-37.33	0-360	On
10	20.3154	33.49	Pk	34.5	-31.2	-40	-3.21	29.5	-32.71	0-360	Off

Pk - Peak detector

10.3. WORST CASE BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)



Below 1GHz Data

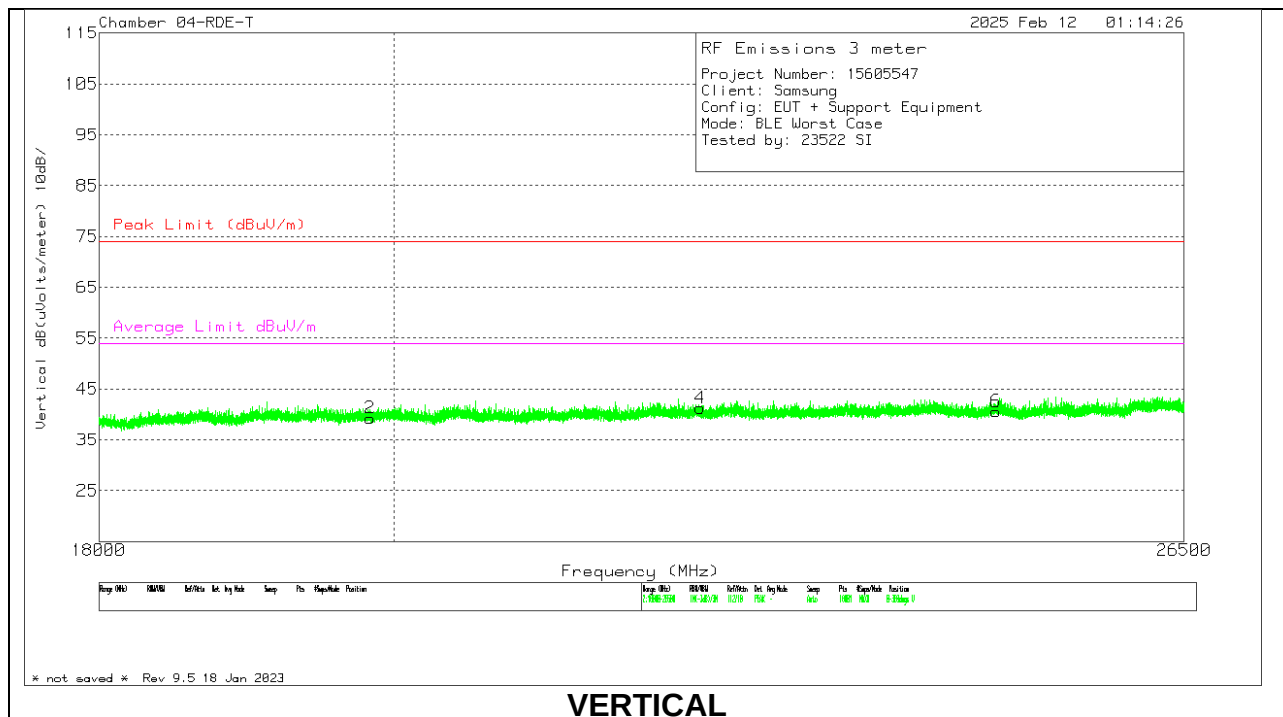
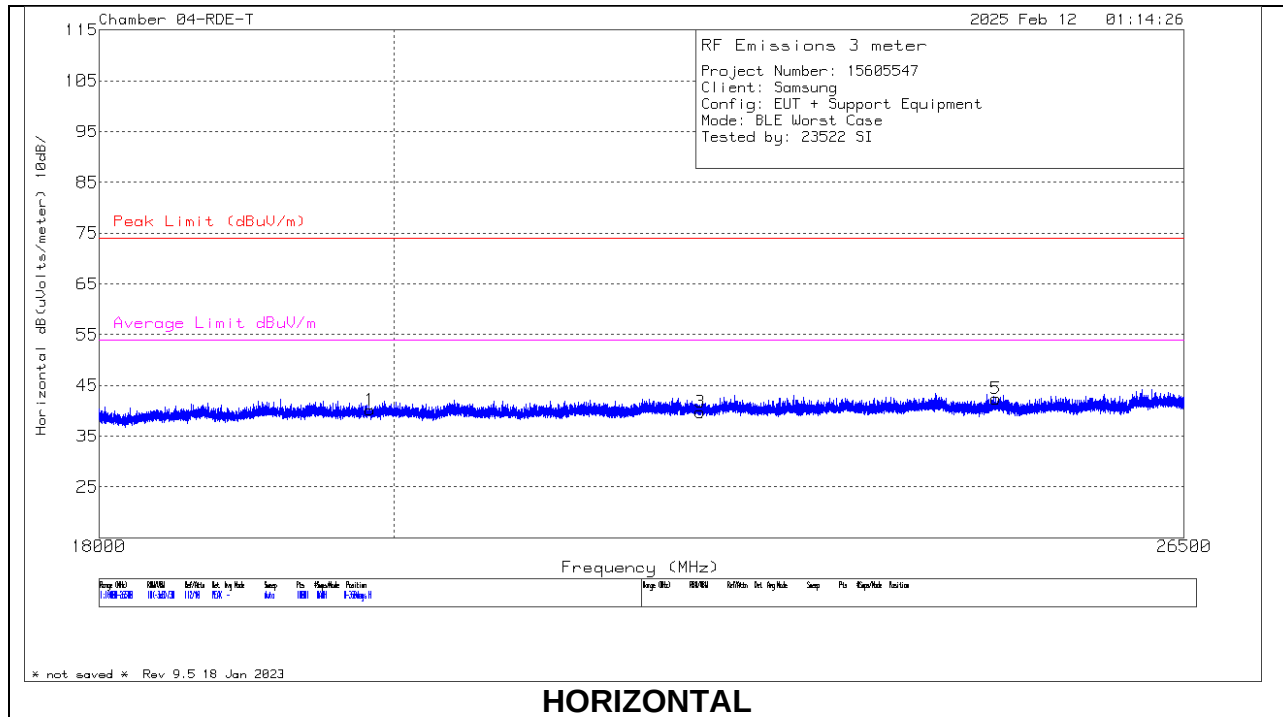
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80293 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	59.5312	41.23	Pk	13.3	-31.5	23.03	40	-16.97	0-360	99	H
2	135.984	43.28	Qp	19.5	-31.1	31.68	43.52	-11.84	208	245	H
3	195.278	45.93	Pk	17.8	-30.8	32.93	43.52	-10.59	0-360	99	H
4	135.946	40.08	Pk	19.5	-31.1	28.48	43.52	-15.04	0-360	101	V
5	195.17	42.55	Pk	17.7	-30.8	29.45	43.52	-14.07	0-360	101	V
6	781.32	37.25	Pk	26.9	-28.8	35.35	46.02	-10.67	0-360	101	V

Pk - Peak detector

Qp - Quasi-Peak detector

10.4. WORST CASE 18-26 GHz

SPURIOUS EMISSIONS 18-26 GHz (WORST-CASE CONFIGURATION)



18 – 26GHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	199658 ACF (dB/m)	amp/cbl (dB)	Cables (dB)	Corrected Reading dB(uVolts/meter)	Peak Limit (dBuV/m)	PK Margin (dB)	Average Limit dBuV/m	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 19824.666	55.47	Pk	32.6	-62.1	14.2	40.17	74	-33.83	-	-	0-360	199	H
3	* 22302.887	53.57	Pk	33.1	-62.1	15.2	39.77	74	-34.23	-	-	0-360	199	H
2	* 19824.666	54.55	Pk	32.6	-62.1	14.2	39.25	74	-34.75	-	-	0-360	101	V
4	* 22302.887	55.07	Pk	33.1	-62.1	15.2	41.27	74	-32.73	-	-	0-360	199	V
5	24780.636	53.91	Pk	33.8	-61.3	16	42.41	74	-31.59	-	-	0-360	101	H
6	24780.636	52.08	Pk	33.8	-61.3	16	40.58	74	-33.42	-	-	0-360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

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.

TEST PROCEDURE

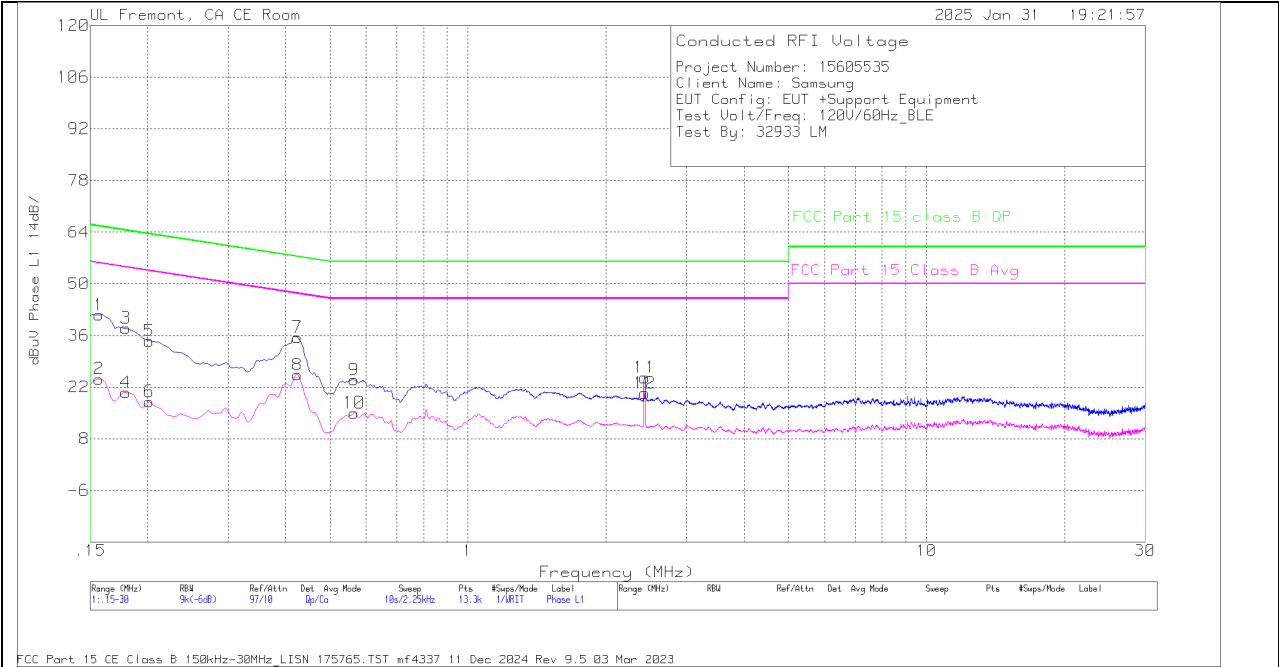
The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

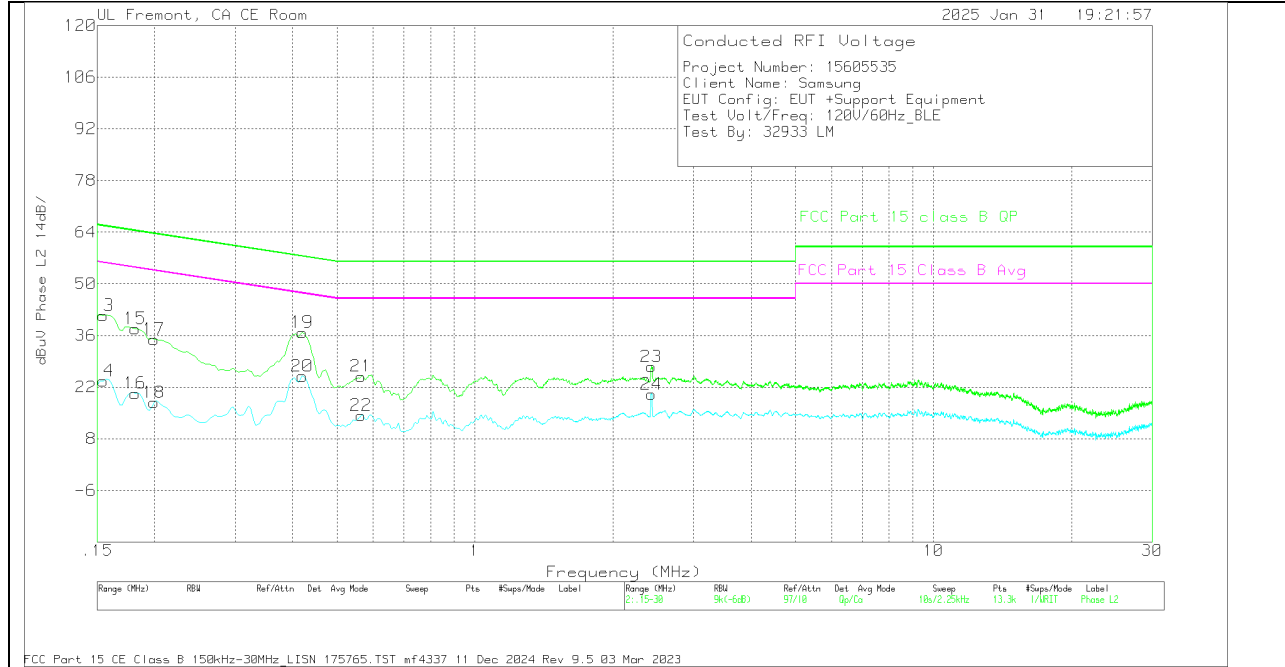
LINE 1 RESULTS



Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15C Avg	Margin (dB)	FCC Part 15C QP	Margin (dB)
2	.1568	5.23	Ca	.4	.1	8.5	10	24.23	55.63	-31.4	-	-
4	.1793	1.73	Ca	.3	.1	8.4	10	20.53	54.52	-33.99	-	-
6	.2018	-.46	Ca	.1	0	8.4	10	18.04	53.54	-35.5	-	-
8	.4245	6.91	Ca	-2	0	8.6	10	25.31	47.36	-22.05	-	-
10	.564	-2.44	Ca	-.4	0	7.8	10	14.96	46	-31.04	-	-
12	2.4293	2.12	Ca	-.1	0	8.3	10	20.32	46	-25.68	-	-
1	.1568	22.54	Qp	.4	.1	8.5	10	41.54	-	-	65.63	-24.09
3	.1793	19.2	Qp	.3	.1	8.4	10	38	-	-	64.52	-26.52
5	.2018	15.98	Qp	.1	0	8.4	10	34.48	-	-	63.54	-29.06
7	.4245	17.04	Qp	-2	0	8.6	10	35.44	-	-	57.36	-21.92
9	.564	6.53	Qp	-.4	0	7.8	10	23.93	-	-	56	-32.07
11	2.4293	6.39	Qp	-.1	0	8.3	10	24.59	-	-	56	-31.41

LINE 2 RESULTS



Range 2: Phase L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15C Avg	Margin (dB)	FCC Part 15C QP	Margin (dB)
14	.1545	4.6	Ca	.5	.1	8.5	10	23.7	55.75	-32.05	-	-
16	.1815	1.71	Ca	.2	0	8.4	10	20.31	54.42	-34.11	-	-
18	.1995	-.68	Ca	.1	0	8.4	10	17.82	53.63	-35.81	-	-
20	.42	6.63	Ca	-.2	0	8.5	10	24.93	47.45	-22.52	-	-
22	.564	-3.1	Ca	-.4	0	7.8	10	14.3	46	-31.7	-	-
24	2.4248	1.96	Ca	-.2	0	8.3	10	20.06	46	-25.94	-	-
13	.1545	22.29	Qp	.5	.1	8.5	10	41.39	-	-	65.75	-24.36
15	.1815	19.23	Qp	.2	0	8.4	10	37.83	-	-	64.42	-26.59
17	.1995	16.42	Qp	.1	0	8.4	10	34.92	-	-	63.63	-28.71
19	.42	18.5	Qp	-.2	0	8.5	10	36.8	-	-	57.45	-20.65
21	.564	7.5	Qp	-.4	0	7.8	10	24.9	-	-	56	-31.1
23	2.4248	9.44	Qp	-.2	0	8.3	10	27.54	-	-	56	-28.46

12. SETUP PHOTOS

Please refer to 15605535-EP1 for setup photos

END OF TEST REPORT