

CERTIFICATION TEST REPORT

Report Number. : 4790841160-E5V3

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

Model : SC-55D, SCG22

FCC ID : A3LSMF946JPN

EUT Description : GSM/WCDMA/LTE 5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax,
NFC, WPT and UWB

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

Date Of Issue:

2023-07-10

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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V1	2023-06-30	Initial issue	Myeongjun Kwon
V2	2023-07-07	Updated to address TCB's question	Myeongjun Kwon
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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.

EUT DESCRIPTION: GSM/WCDMA/LTE 5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax, NFC, WPT and UWB

MODEL NUMBER: SC-55D, SCG22

SERIAL NUMBER: R3CW408VAHK, 732bb529284c7ece (CONDUCTED);
R3CW408V0DL (RADIATED);

DATE TESTED: 2023-05-23 - 2023-06-27;

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

UL KOREA LTD. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL KOREA LTD. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL KOREA LTD. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL KOREA LTD. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by IAS, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL KOREA LTD. By:



Seokhwan Hong
Suwon Lab Engineer
UL KOREA LTD.

Tested By:



Myeongjun Kwon
Suwon Lab Engineer
UL KOREA LTD.

2. TEST METHODOLOGY

1. FCC CFR 47 Part 2.
2. FCC CFR 47 Part 15.
3. KDB 558074 D01 15.247 Meas Guidance v05r02.
4. ANSI C63.10-2013.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea. Line conducted emissions are measured only at the 218 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

218 Maeyeong-ro	
<input checked="" type="checkbox"/>	Chamber 1(3m semi-anechoic chamber)
<input checked="" type="checkbox"/>	Chamber 2(3m semi-anechoic chamber)
<input checked="" type="checkbox"/>	Chamber 3(3m semi-anechoic chamber)
<input type="checkbox"/>	Chamber 4(3m Full-anechoic chamber)
<input type="checkbox"/>	Chamber 5(3m Full-anechoic chamber)

UL KOREA LTD. is accredited by IAS, Laboratory Code TL-637. The full scope of accreditation can be viewed at <https://www.iasonline.org/wp-content/uploads/2017/05/TL-637-cert-New.pdf>.

4. DECISION RULES AND MEASUREMENT UNCERTAINTY

4.1. METROLOGICAL TRACEABILITY

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamp Gain (dB)} \\ 28.9 \text{ dBuV/m} &= 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} \end{aligned}$$

$$\begin{aligned} \text{AC Corrected Reading (dBuV)} &= \text{Measured Voltage (dBuV)} + \text{Extension Cord} \\ &\text{Loss (dB)} + \text{Cable Loss (dB)} \\ 44.72 \text{ dBuV} &= 34.72 \text{ dBuV} + 9.9 \text{ dB} + 0.1 \text{ dB} \end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	2.80 dB
Radiated Disturbance, 9 kHz to 30 MHz	1.69 dB
Radiated Disturbance, 30 MHz to 1 GHz	3.92 dB
Radiated Disturbance, 1 GHz to 18 GHz	5.06 dB
Radiated Disturbance, Above 18 GHz	6.02 dB

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

4.4. DECISION RULES

Decision rule for statement(s) of conformity is based on Procedure 2, Clause 4.4.3 in IEC Guide 115:2021.

5. EQUIPMENT UNDER TEST

5.1. EUT DESCRIPTION

The EUT is a GSM/WCDMA/LTE 5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax, NFC, WPT and UWB. This test report addresses the DTS (BLE) operational mode.

Representative model	Difference	Derivative model
		SCG22
SC-55D	Hardware	Same as SC-55D.
	Software	Supported WWAN Band is different.

Thus, SC-55D was set for final test.

5.2. MAXIMUM OUTPUT POWER

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

Frequency Range[MHz]	Mode	Power Mode	Output Power [dBm]	Output Power [mW]
2 402 ~ 2 480	500 Kbps (255 pkt)	Peak	8.380	6.887
		Average	8.107	6.467
	2 Mbps (255 pkt)	Peak	8.470	7.031
		Average	7.806	6.034

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 internal antenna was Permanently attached.
 Therefore this E.U.T Complies with the requirement of §15.203.**

The radio utilizes an internal antennas with ANT1's maximum gain of -2.76 dBi and ANT2's maximum gain of -1.53 dBi.

"Q5_NA Wi-Fi1" and "Q5_NA Wi-Fi2" as indicated in antenna specification are written as ANT1 and ANT2 in this report.

5.4. WORST-CASE CONFIGURATION AND MODE

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

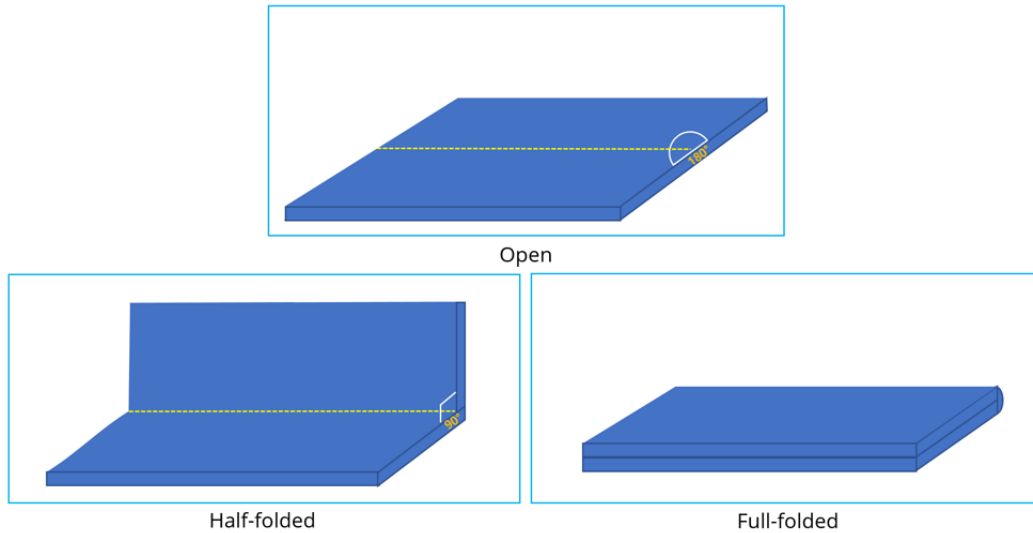
Radiated emission above 1GHz was performed with the EUT set to transmit low/mid/high channels.

i. Worst case of antenna axis:

ANT1	ANT2
Y	Y

ii. Foldable condition

ANT1	ANT2
Open	Full-folded



All radiated and power line conducted tests were performed attached with travel adapter for the worst-case condition mode.

Power verification

The Output Power of all data rate are all investigated, the 500 Kbps (255 pkt) and 2 Mbps(255 pkt) power is the worst case for symbol rate. All tests were performed in these two modes.

Symbol Rate [Ms/s]	Mode	Freq. [MHz]	Conducted Burst Avg [dBm]	Symbol Rate [Ms/s]	Mode	Freq. [MHz]	Conducted Burst Avg [dBm]
1	1 Mbps 37 pkt ANT1	2 402	7.253	2	2 Mbps 37 pkt ANT1	2 402	7.031
		2 440	8.007			2 440	7.767
		2 480	6.249			2 480	6.021
	1 Mbps 37 pkt ANT2	2 402	5.401		2 Mbps 37 pkt ANT2	2 402	5.099
		2 440	5.582			2 440	5.359
		2 480	4.575			2 480	4.334
	1 Mbps 255 pkt ANT1	2 402	7.259		2 Mbps 255 pkt ANT1	2 402	7.057
		2 440	7.999			2 440	7.806
		2 480	6.205			2 480	5.967
	1 Mbps 255 pkt ANT2	2 402	5.387		2 Mbps 255 pkt ANT2	2 402	5.186
		2 440	5.562			2 440	5.361
		2 480	4.551			2 480	4.335
1 Coded S=8	125 kbps 37 pkt ANT1	2 402	7.256	1 Coded S=2	500 kbps 37 pkt ANT1	2 402	7.367
		2 440	7.982			2 440	8.091
		2 480	6.212			2 480	6.238
	125 kbps 37 pkt ANT2	2 402	5.415		500 kbps 37 pkt ANT2	2 402	5.432
		2 440	5.594			2 440	5.611
		2 480	4.573			2 480	4.603
	125 kbps 255 pkt ANT1	2 402	7.214		500 kbps 255 pkt ANT1	2 402	7.361
		2 440	7.945			2 440	8.107
		2 480	6.133			2 480	6.225
	125 kbps 255 pkt ANT2	2 402	5.386		500 kbps 255 pkt ANT2	2 402	5.406
		2 440	5.565			2 440	5.580
		2 480	4.541			2 480	4.549

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Charger	SAMSUNG	EP-TA800	R37N9QP4SL9DK3	N/A
Data Cable	SAMSUNG	WBR0062M	GH39-02112A	N/A

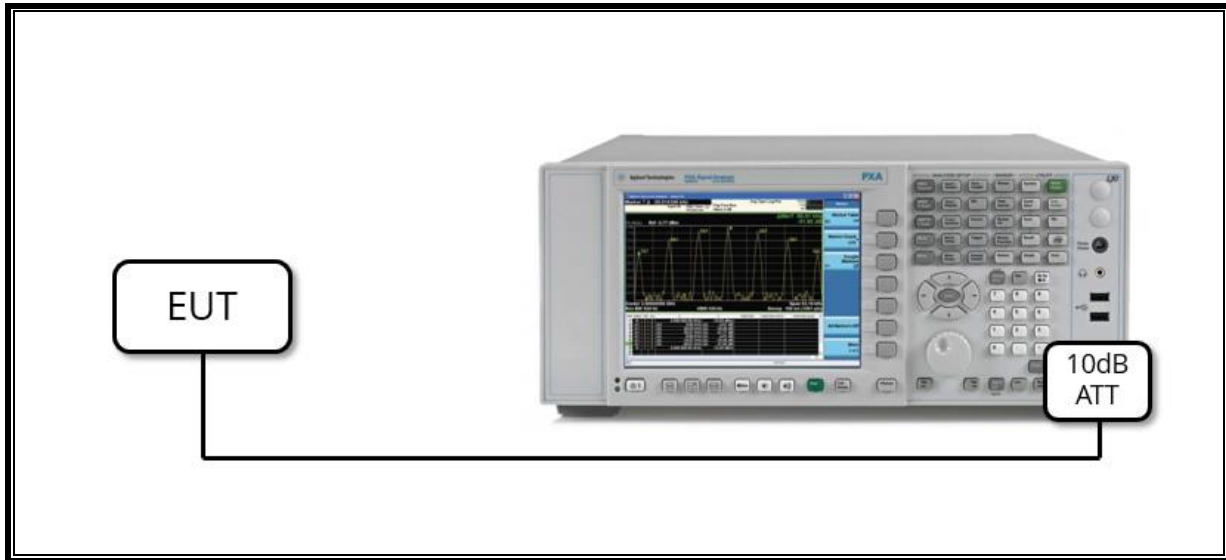
I/O CABLE

I/O Cable List						
Cable No.	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	C Type	Shielded	1.0 m	N/A

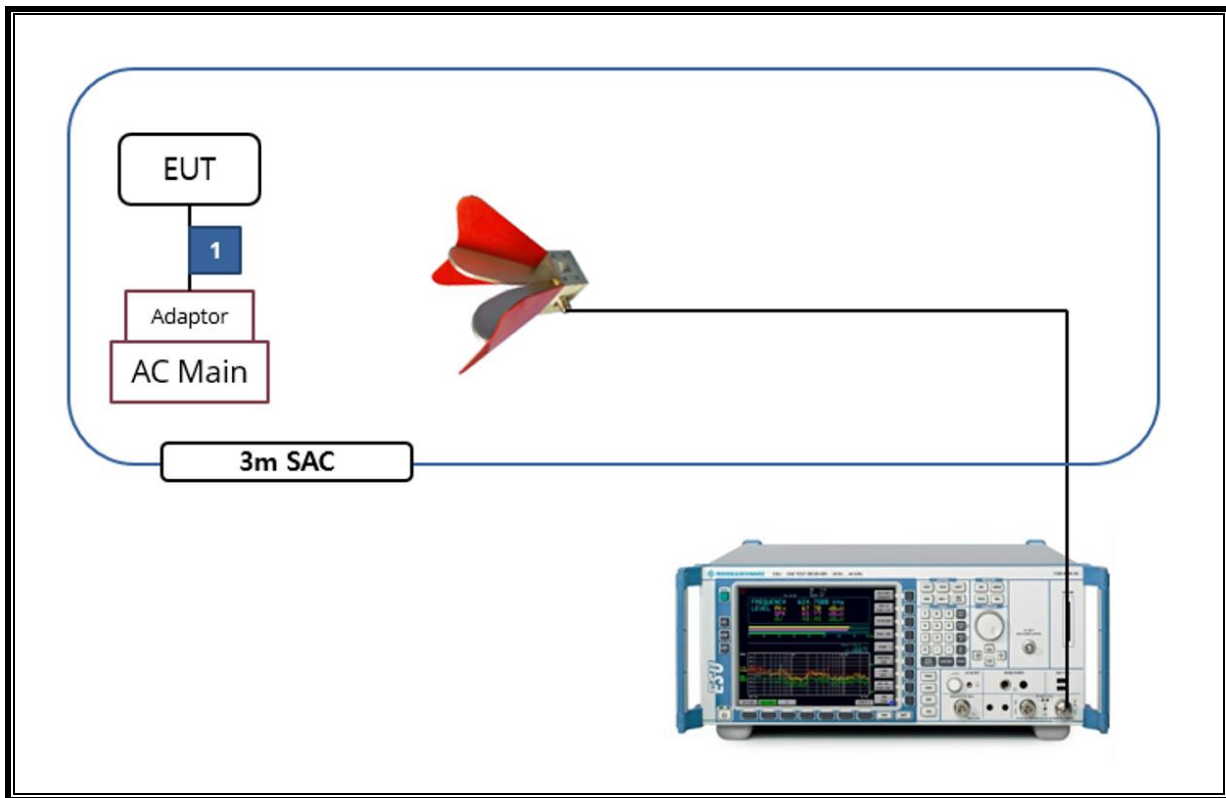
TEST SETUP

The EUT is a stand-alone unit during the tests.
Test software in hidden menu exercised the EUT to enable BLE mode.

SETUP DIAGRAM FOR TESTS (CONDUCTED TEST SETUP)



SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP)



6. MEASUREMENT METHOD

6 dB BW : ANSI C63.10-2013, Section 11.8.2 Option 2

OUTPUT POWER : ANSI C63.10-2013, Section 11.9.1.1 RBW \geq DTS bandwidth

POWER SPECTRAL DENSITY : ANSI C63.10-2013, Section 11.10.2 Method PKPSD (peak PSD)

Out-of-band Emissions (Conducted) : ANSI C63.10-2013, Section 11.11 Emissions in nonrestricted frequency bands

Out-of-band Emissions in Non-restricted Bands: ANSI C63.10-2013, Section 11.11 Emissions in nonrestricted frequency bands

Out-of-band Emissions in Restricted Bands : ANSI C63.10-2013, Section 11.12 Emissions in restricted frequency bands

AC Power Line Conducted Emission : ANSI C63.10-2013, Section 6.2

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	S/N	Cal Due
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	750	2024-08-15
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	749	2024-08-15
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	845	2024-08-15
Antenna, Horn, 18 GHz	ETS	3115	00167211	2024-08-04
Antenna, Horn, 18 GHz	ETS	3115	00161451	2024-08-21
Antenna, Horn, 18 GHz	ETS	3117	00168724	2024-08-04
Antenna, Horn, 18 GHz	ETS	3117	00168717	2024-08-21
Antenna, Horn, 40 GHz	ETS	3116C	00166155	2024-08-02
Preamplifier	ETS	3115-PA	00167475	2023-08-04
Preamplifier	ETS	3116C-PA	00168841	2023-08-04
Preamplifier, 1000 MHz	Sonoma	310N	341282	2023-08-02
Preamplifier, 1000 MHz	Sonoma	310N	351741	2023-08-02
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1896138	2023-08-01
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	2029169	2023-08-01
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54170614	2023-08-03
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54490312	2023-08-01
Spectrum Analyzer, 44 GHz	KEYSIGHT	N9030B	MY60070693	2024-01-09
Spectrum Analyzer, 44 GHz	KEYSIGHT	N9040B	MY60080268	2024-01-09
Average Power Sensor	Agilent / HP	U2000A	MY54270007	2023-08-03
Average Power Sensor	Agilent / HP	U2000A	MY54260010	2023-08-03
Attenuator	PASTERNAK	PE7087-10	A001	2023-08-03
Attenuator	PASTERNAK	PE7087-10	A008	2023-08-03
Attenuator	PASTERNAK	PE7004-10	2	2023-08-01
Attenuator	PASTERNAK	PE7087-10	A009	2023-08-03
EMI Test Receive, 40 GHz	R&S	ESU40	100439	2023-08-02
EMI Test Receive, 40 GHz	R&S	ESU40	100457	2023-07-29
EMI Test Receive, 3 GHz	R&S	ESR3	101832	2023-08-01
Low Pass Filter 5GHz	Micro-Tronics	LPS17541	009	2023-08-02
Low Pass Filter 5GHz	Micro-Tronics	LPS17541	015	2023-08-01
Low Pass Filter 5GHz	Micro-Tronics	LPS17541	020	2023-08-01
High Pass Filter 3GHz	Micro-Tronics	HPM17543	010	2023-08-02
High Pass Filter 3GHz	Micro-Tronics	HPM17543	020	2023-08-01
High Pass Filter 6GHz	Micro-Tronics	HPS17542	009	2023-08-02
High Pass Filter 6GHz	Micro-Tronics	HPS17542	021	2023-08-01
LISN	R&S	ENV-216	101837	2023-08-04
Antenna, Loop, 9kHz-30MHz	R&S	HFH2-Z2	100418	2023-10-06
UL Software				
Description	Manufacturer	Model	Version	
Radiated software	UL	UL EMC	Ver 9.5	
AC Line Conducted software	UL	UL EMC	Ver 9.5	

8. TEST RESULTS SUMMARY

FCC Part Section	Test Description	Test Limit	Test Condition	Test Result
15.247 (a)(2)	Occupied Bandwidth(6dB)	> 500kHz	Conducted	Complies
2.1051, 15.247(d)	Band Edge / Conducted Spurious Emission	-20 dBc		Complies
15.247 (b)(3)	TX conducted output power	< 30 dBm		Complies
15.247(e)	PSD	< 8 dBm/3kHz		Complies
15.207(a)	AC Power Line conducted emissions	Section 11	Power Line conducted	Complies
15.205, 15.209	Radiated Spurious Emission	< 54dBuV/m(Av)	Radiated	Complies

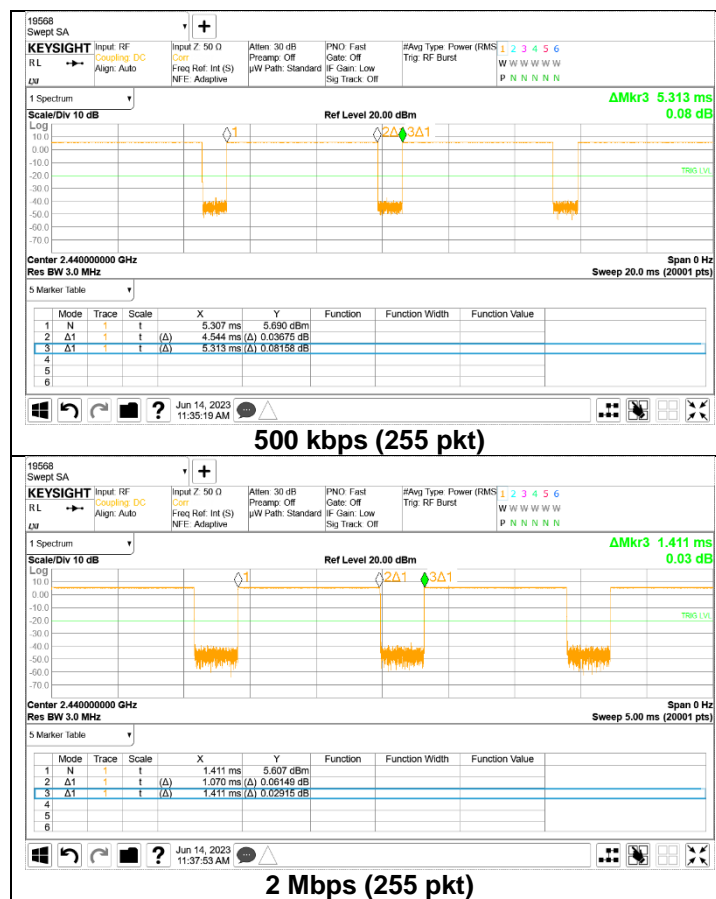
9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

Mode	On time [msec]	Period [msec]	Duty cycle x [Linear]	Duty Cycle [%]	Duty Cycle Correction Factor [dB]	1/T Minimum VBW [kHz]
2 400 ~ 2 483.5 MHz Bands						
500 kbps [255 pkt]	4.544	5.313	0.855	85.526	0.68	0.22
2 Mbps [255 pkt]	1.070	1.411	0.758	75.833	1.20	0.93



9.2. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

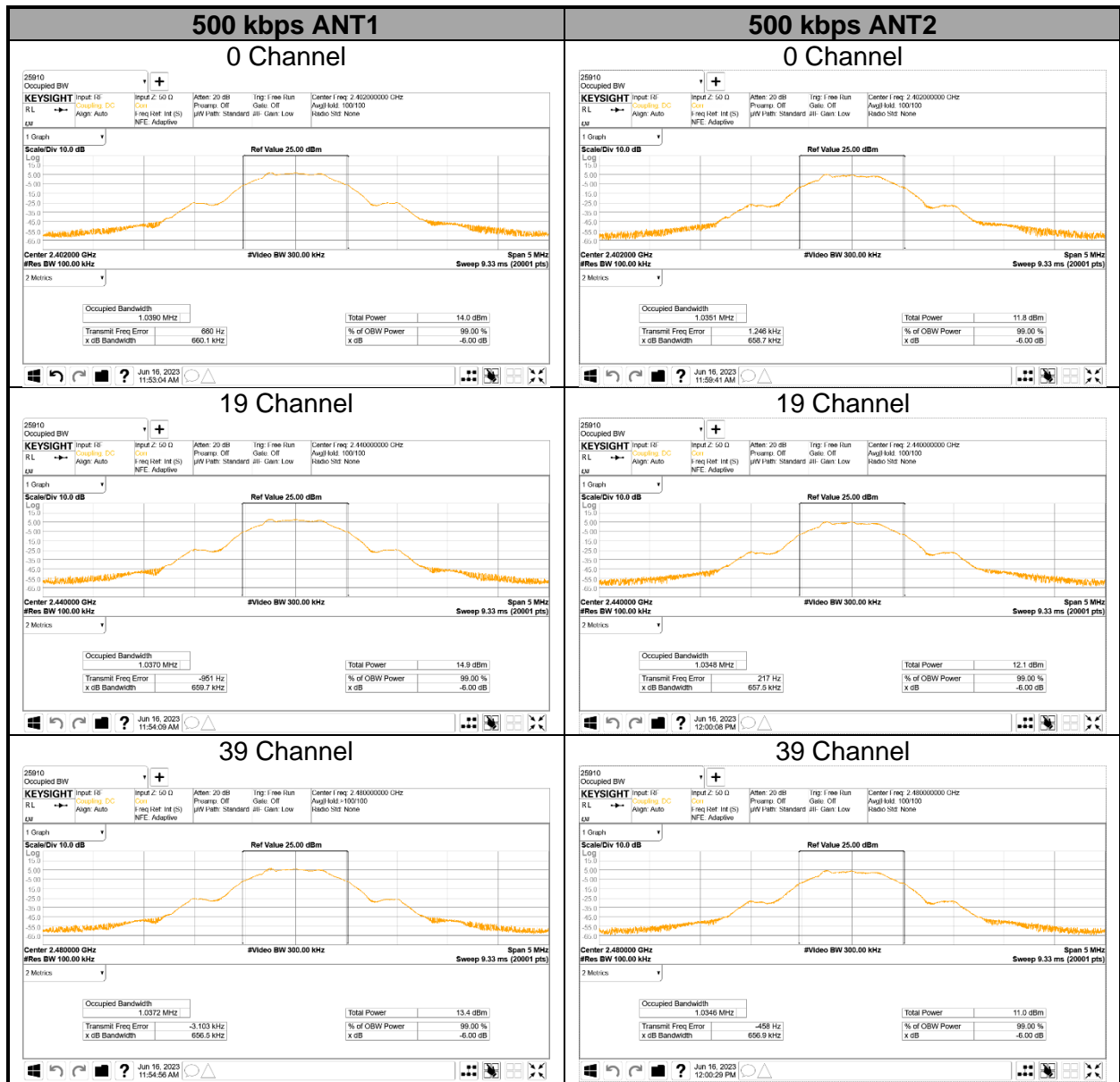
The minimum 6 dB bandwidth shall be at least 500 kHz.

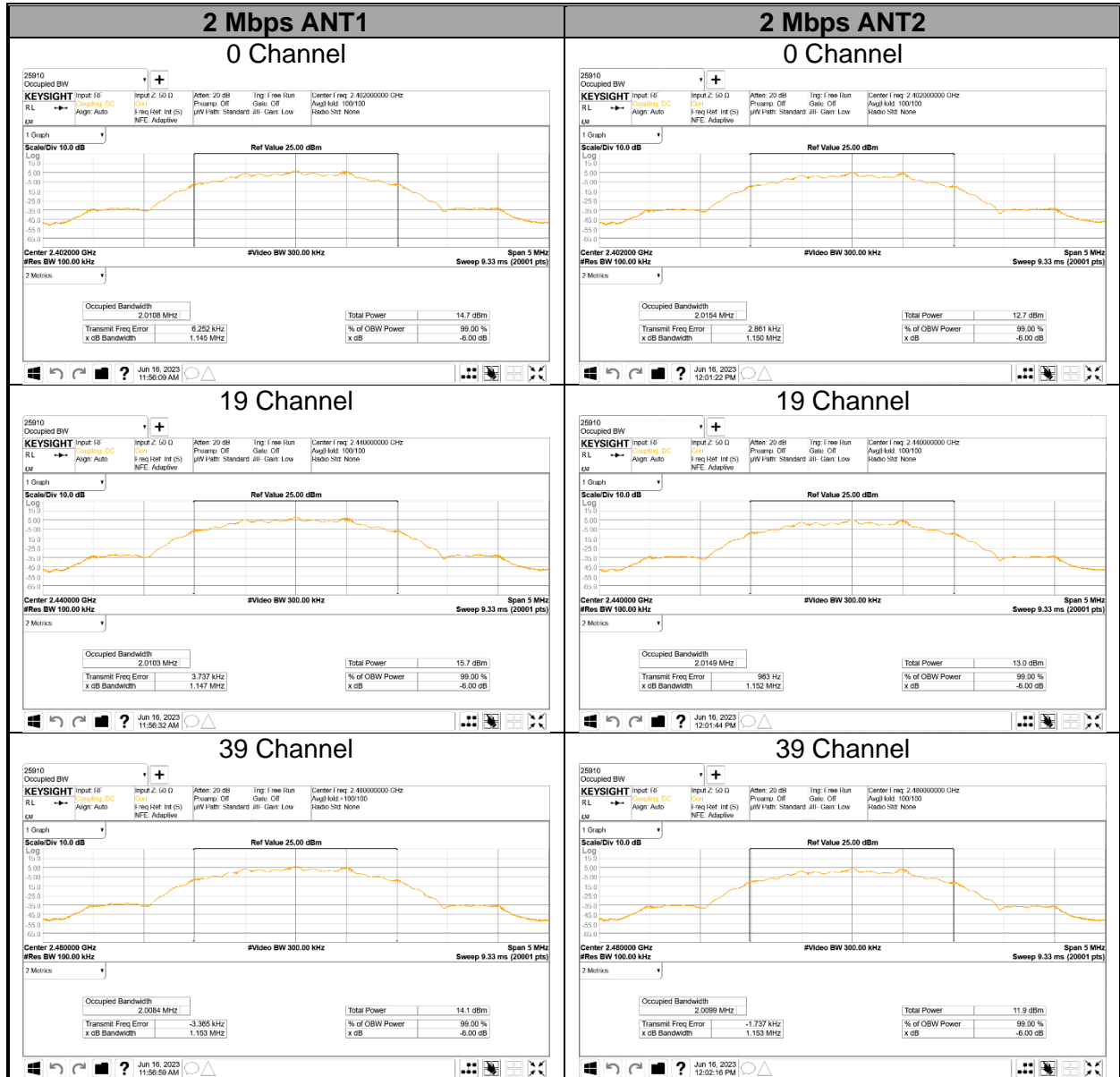
RESULTS

9.2.1. Test data

Mode	Antenna	Channel	Frequency [MHz]	6 dB Bandwidth [kHz]	Minimum Limit [kHz]
500 kbps (255pkt)	ANT1	0	2 402	660.1	500.0
		19	2 440	659.7	500.0
		39	2 480	656.5	500.0
	ANT2	0	2 402	658.7	500.0
		19	2 440	657.5	500.0
		39	2 480	656.9	500.0
2 Mbps (255pkt)	ANT1	0	2 402	1145.0	500.0
		19	2 440	1147.0	500.0
		39	2 480	1153.0	500.0
	ANT2	0	2 402	1150.0	500.0
		19	2 440	1152.0	500.0
		39	2 480	1153.0	500.0
Worst				656.5	500.0

9.2.2. 6 dB BANDWIDTH PLOTS





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

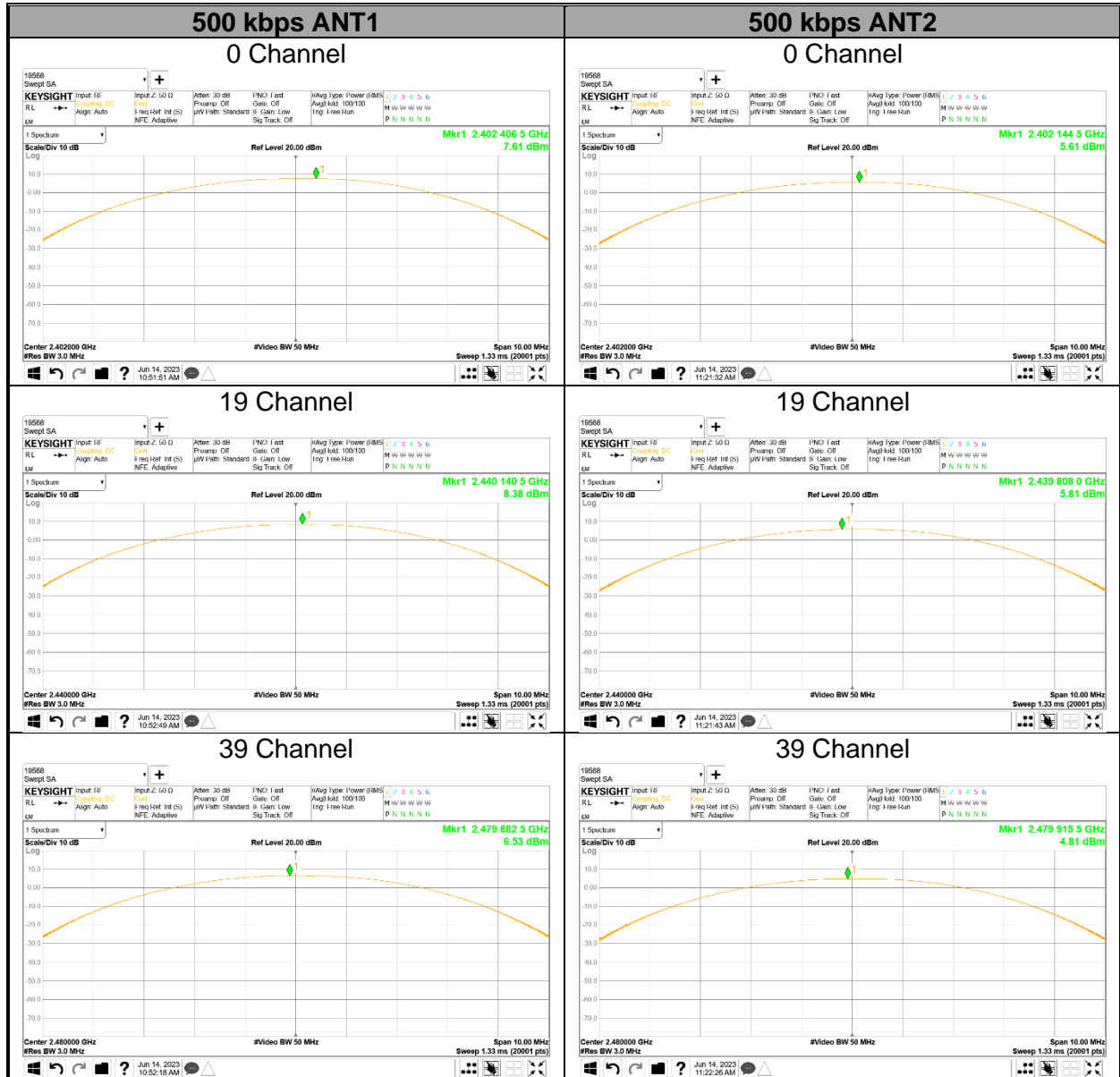
Peak power is measured using ANSI C63.10(2013) under section 11.9.1.1 utilizing spectrum analyzer(RBW ≧ DTS bandwidth).

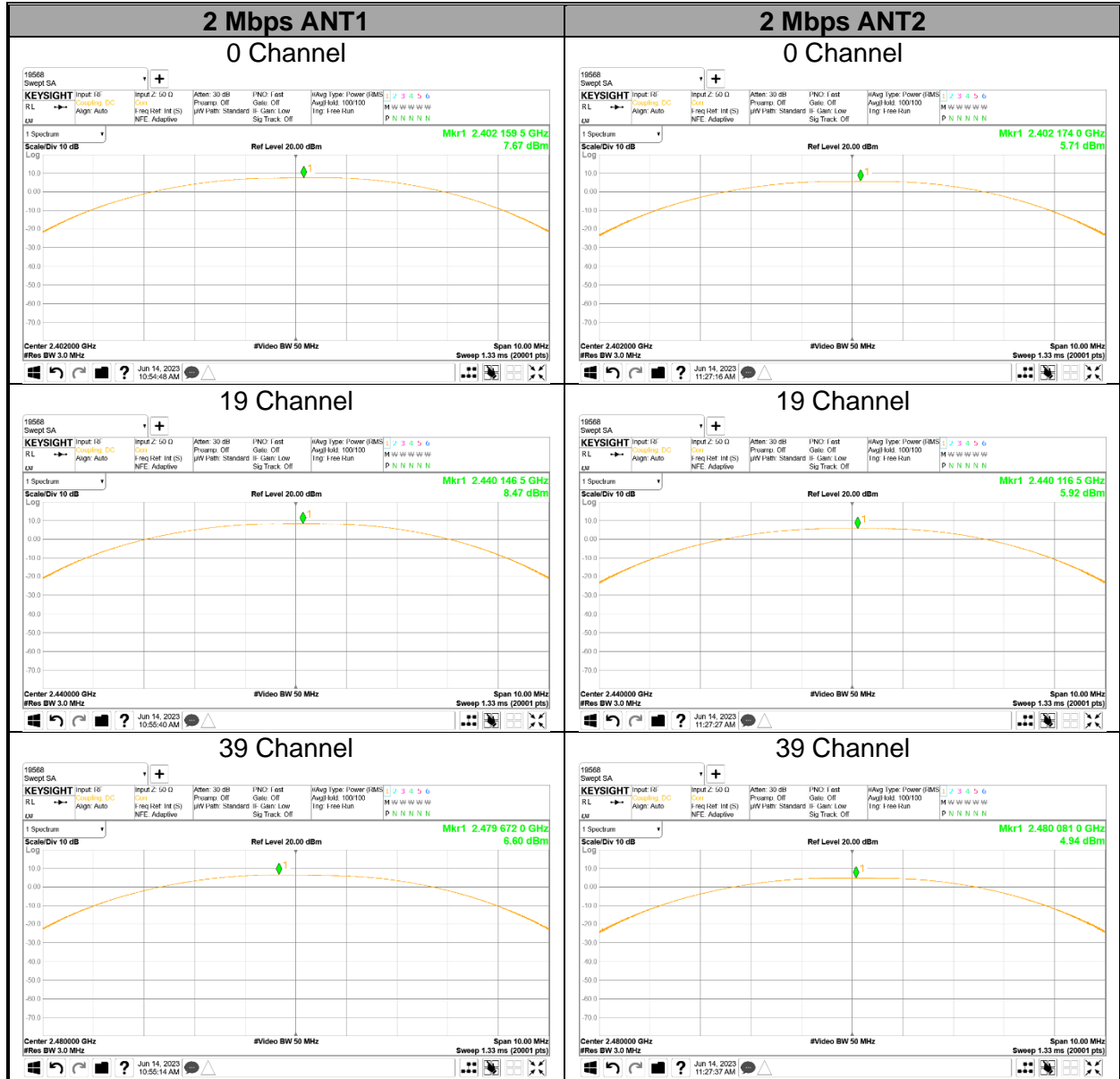
RESULTS

9.3.1. Test data

Mode	Antenna	Channel	Frequency [MHz]	Peak Output Power [dBm]	Limit [dBm]	Margin [dB]
500 kbps (255pkt)	ANT1	0	2 402	7.61	30.000	-22.39
		19	2 440	8.38		-21.62
		39	2 480	6.53		-23.47
	ANT2	0	2 402	5.61		-24.39
		19	2 440	5.81		-24.19
		39	2 480	4.81		-25.19
2 Mbps (255pkt)	ANT1	0	2 402	7.67		-22.33
		19	2 440	8.47		-21.53
		39	2 480	6.60		-23.40
	ANT2	0	2 402	5.71	-24.29	
		19	2 440	5.92	-24.08	
		39	2 480	4.94	-25.06	
Worst				8.47		-21.53

9.3.2. PEAK POWER PLOTS





9.4. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband RF frame average power sensor. The cable assembly insertion loss and duty cycle correction factor were entered as an offset in the power meter to allow for direct reading of power.

RESULTS

9.4.1. Test data

Mode	Antenna	Channel	Frequency [MHz]	Average Output Power [dBm]	Average Output Power [mW]
500 kbps (255pkt)	ANT1	0	2 402	7.361	5.446
		19	2 440	8.107	6.467
		39	2 480	6.225	4.193
	ANT2	0	2 402	5.406	3.472
		19	2 440	5.580	3.614
		39	2 480	4.549	2.850
2 Mbps (255pkt)	ANT1	0	2 402	7.057	5.078
		19	2 440	7.806	6.034
		39	2 480	5.967	3.951
	ANT2	0	2 402	5.186	3.301
		19	2 440	5.361	3.437
		39	2 480	4.335	2.713

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.

TEST PROCEDURE

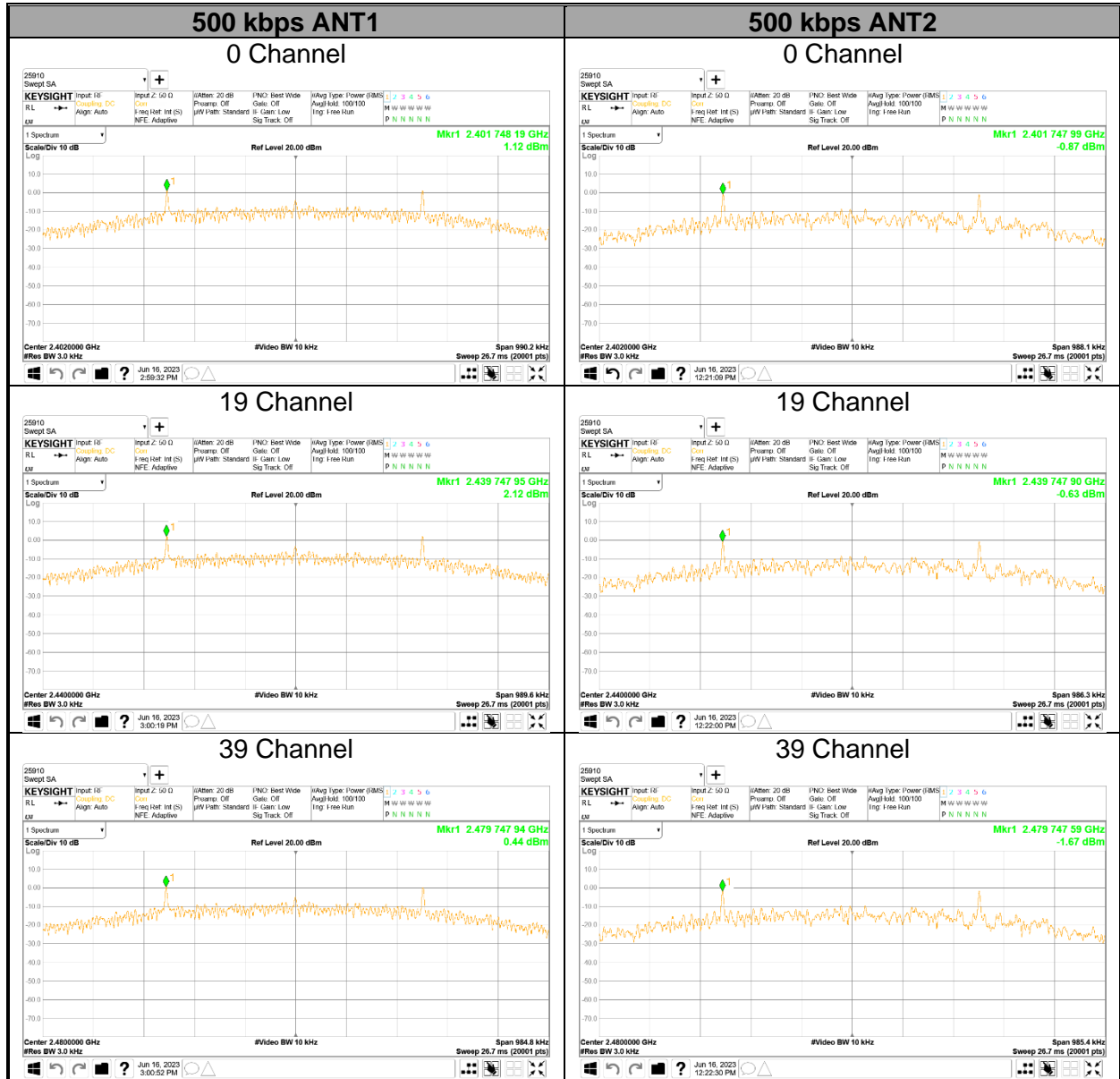
ANSI C63.10-2013, Section 11.10.2 Method PKPSD (peak PSD)

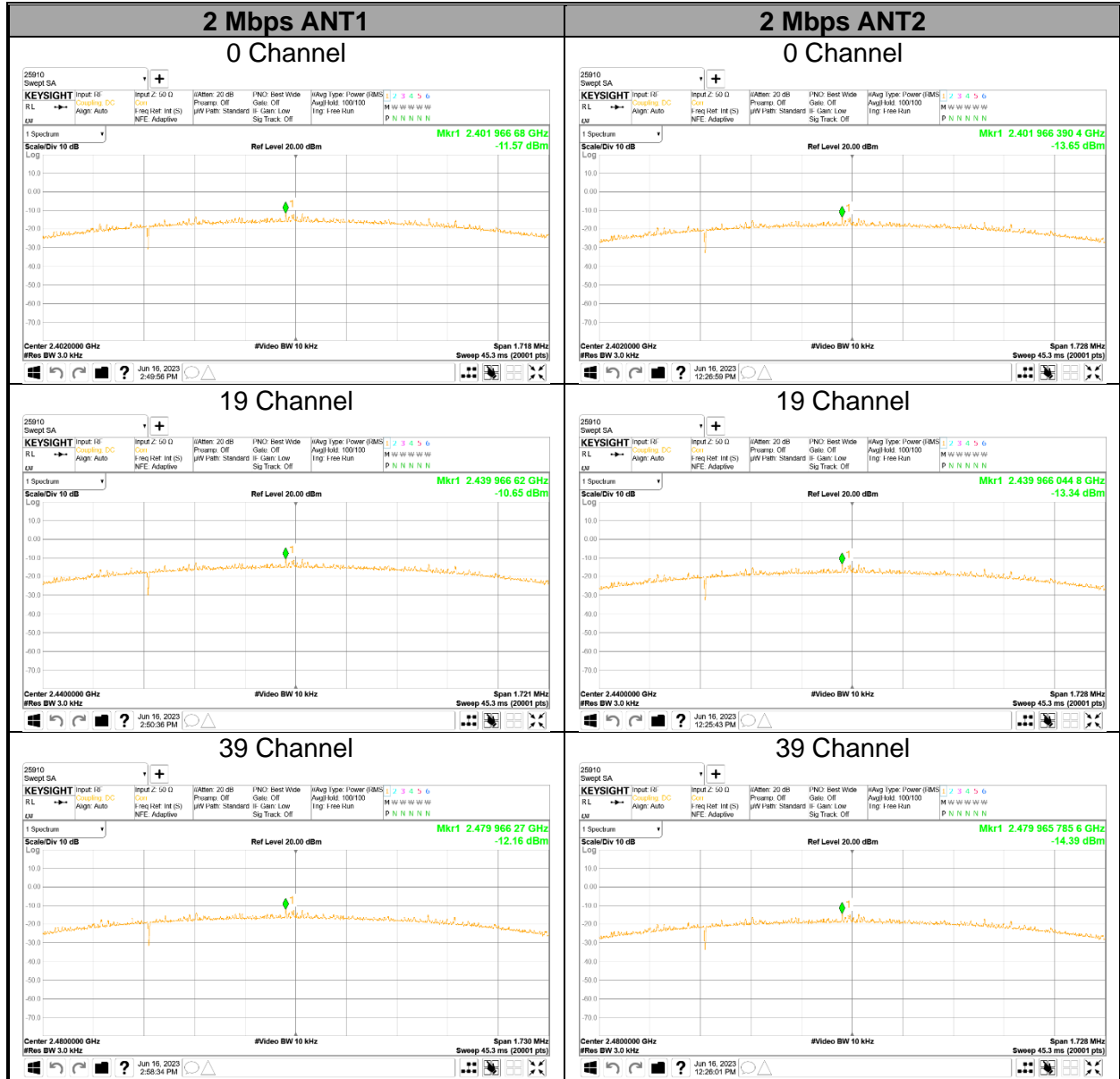
RESULTS

9.5.1. Test data

Mode	Antenna	Channel	Frequency [MHz]	PSD [dBm/3kHz]	Limit [dBm/3kHz]	Margin [dB]
500 kbps (255pkt)	ANT1	0	2 402	1.12	8.00	-6.88
		19	2 440	2.12		-5.88
		39	2 480	0.44		-7.56
	ANT2	0	2 402	-0.87		-8.87
		19	2 440	-0.63		-8.63
		39	2 480	-1.67		-9.67
2 Mbps (255pkt)	ANT1	0	2 402	-11.57		-19.57
		19	2 440	-10.65		-18.65
		39	2 480	-12.16		-20.16
	ANT2	0	2 402	-13.65	-21.65	
		19	2 440	-13.34	-21.34	
		39	2 480	-14.39	-22.39	
Worst				2.12	-5.88	

9.5.2. PSD TEST PLOTS





9.6. CONDUCTED SPURIOUS EMISSIONS

LIMITS

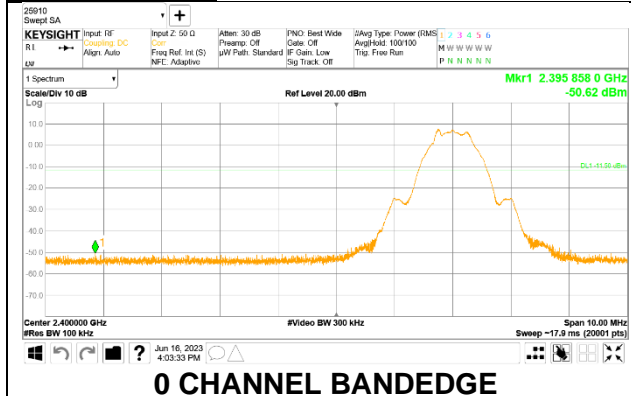
FCC §15.247 (d)

Output power was measured based on the use of a peak measurement.
Therefore, spurious emissions are required to be 20 dBc.

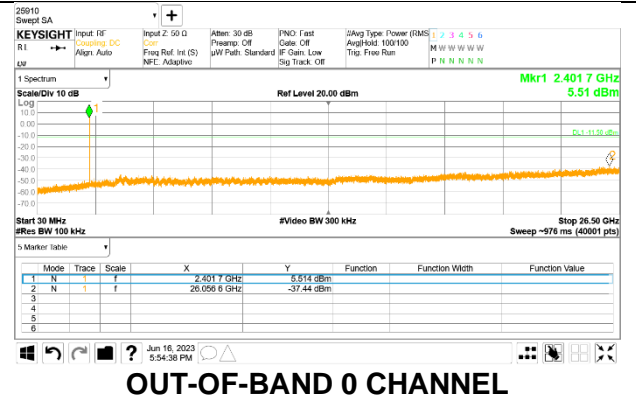
RESULTS

9.6.1. Test plot

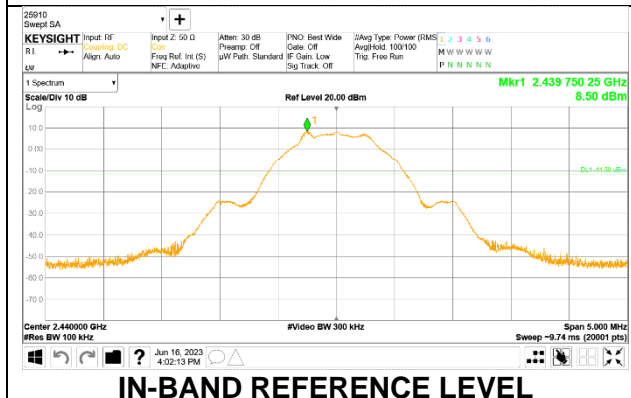
500 kbps ANT1



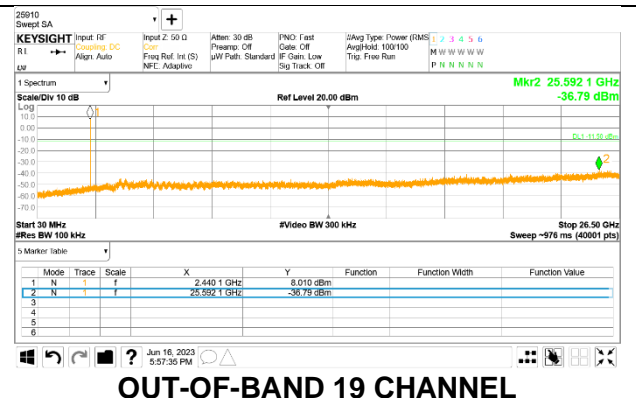
0 CHANNEL BANDEDGE



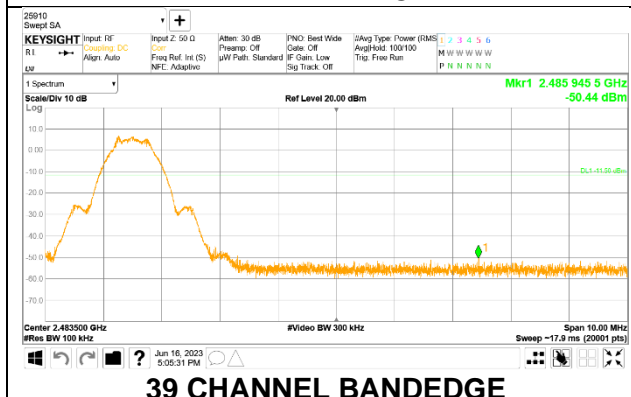
OUT-OF-BAND 0 CHANNEL



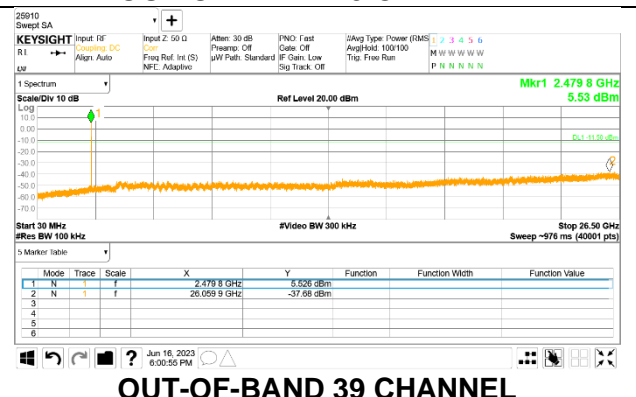
IN-BAND REFERENCE LEVEL



OUT-OF-BAND 19 CHANNEL

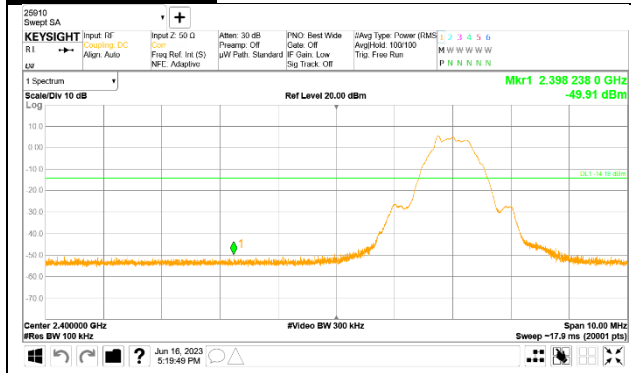


39 CHANNEL BANDEDGE

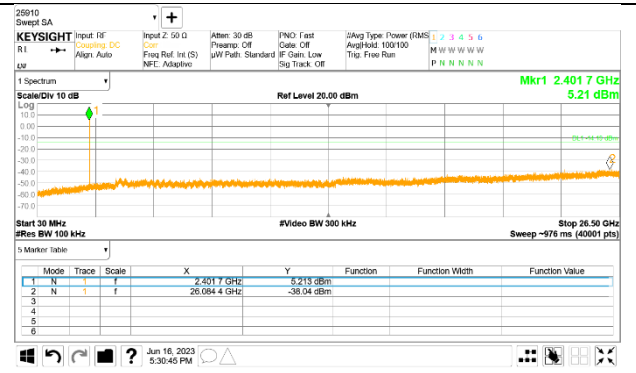


OUT-OF-BAND 39 CHANNEL

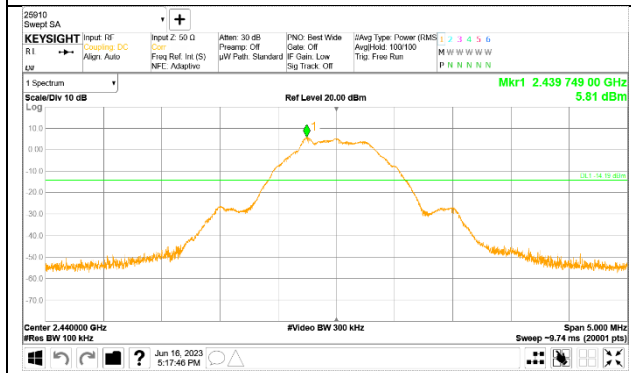
500 kbps ANT2



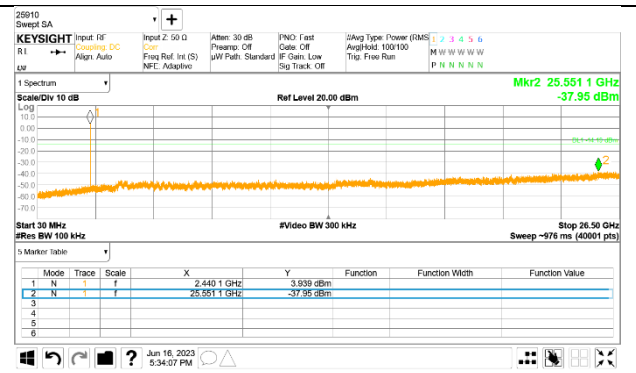
0 CHANNEL BANDEDGE



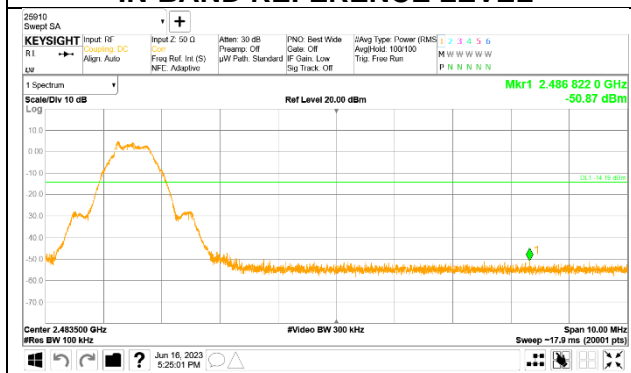
OUT-OF-BAND 0 CHANNEL



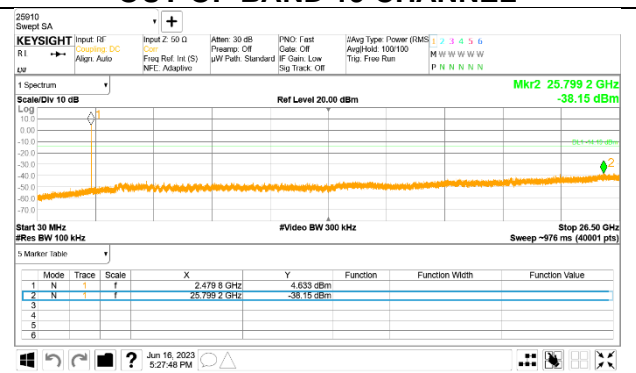
IN-BAND REFERENCE LEVEL



OUT-OF-BAND 19 CHANNEL

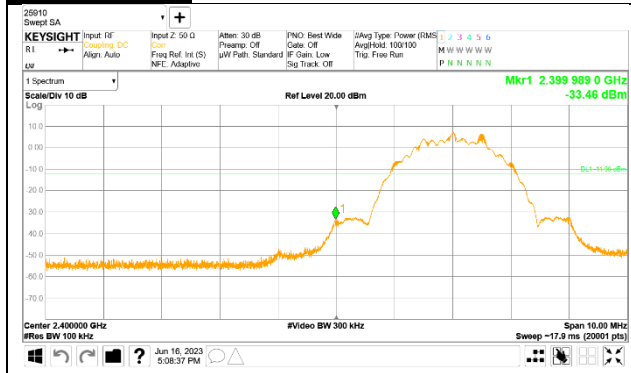


39 CHANNEL BANDEDGE

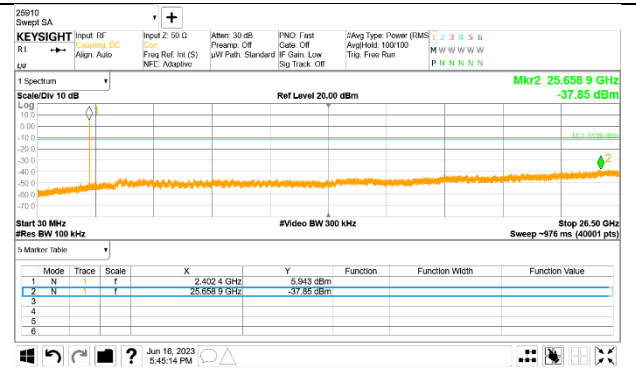


OUT-OF-BAND 39 CHANNEL

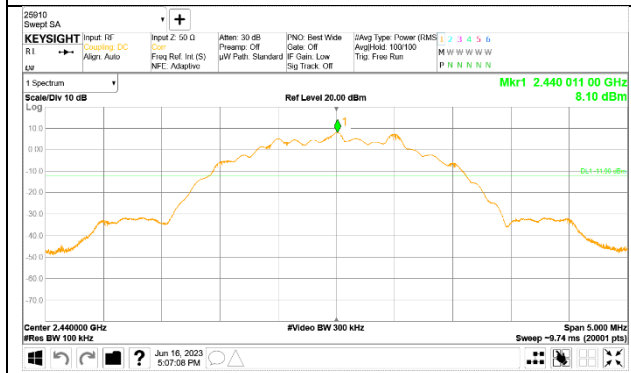
2 Mbps ANT1



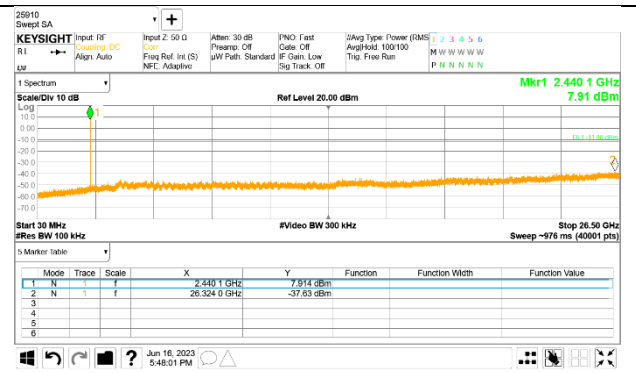
0 CHANNEL BANDEDGE



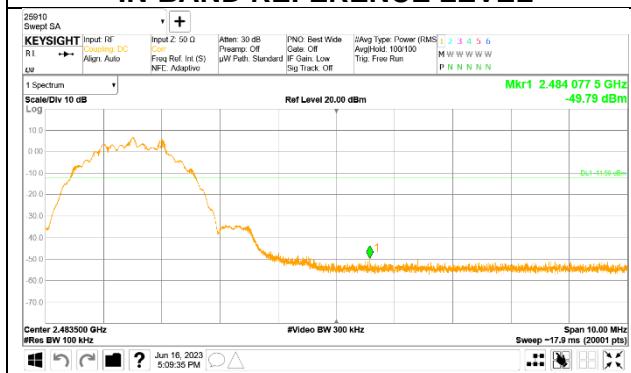
OUT-OF-BAND 0 CHANNEL



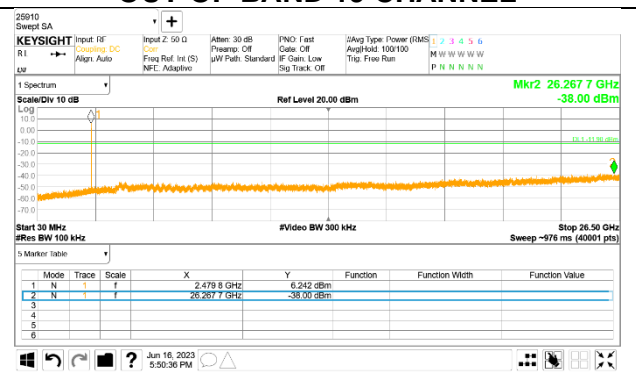
IN-BAND REFERENCE LEVEL



OUT-OF-BAND 19 CHANNEL

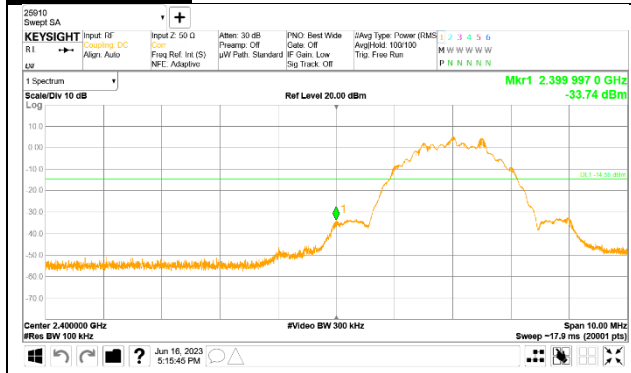


39 CHANNEL BANDEDGE

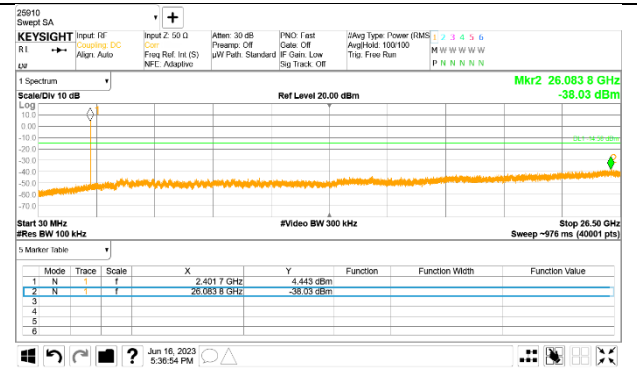


OUT-OF-BAND 39 CHANNEL

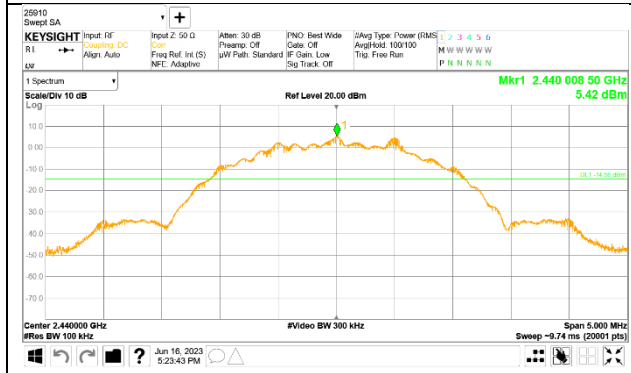
2 Mbps ANT2



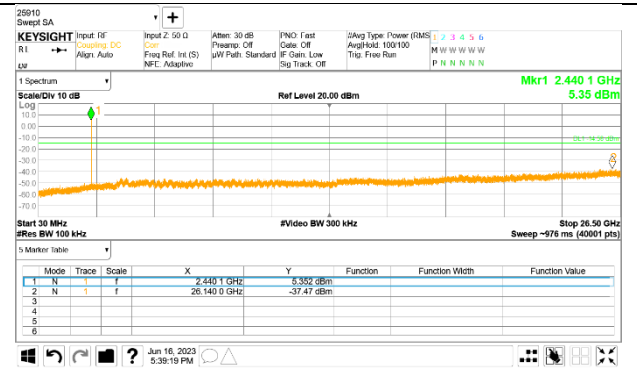
0 CHANNEL BANDEDGE



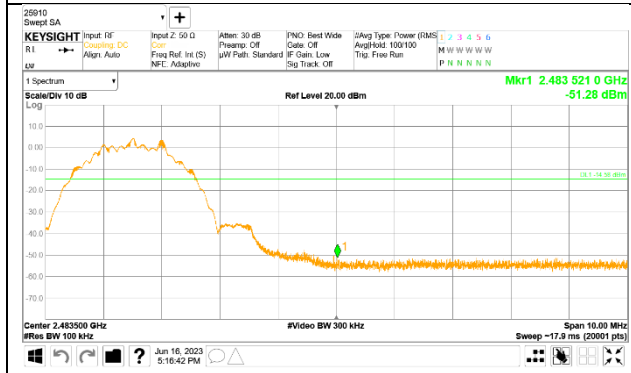
OUT-OF-BAND 0 CHANNEL



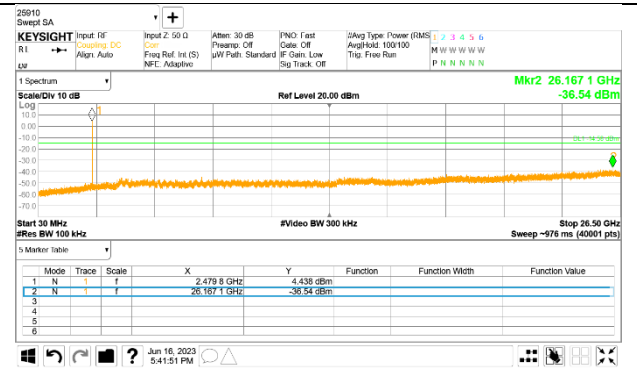
IN-BAND REFERENCE LEVEL



OUT-OF-BAND 19 CHANNEL



39 CHANNEL BANDEDGE



OUT-OF-BAND 39 CHANNEL

10. RADIATED TEST RESULTS

10.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

Limits for radiated disturbance of an intentional radiator		
Frequency range (MHz)	Limits ($\mu\text{V}/\text{m}$)	Measurement Distance (m)
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

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g. §§ 15.231 and 15.241.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz and 150 cm for 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. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor for average measurements. (Restricted band-edge, Final detection of spurious harmonic emissions)
Duty cycle factor = $10 \log(1/x)$. For this sample: For 500 Kbps, $DCF = 10\log(1/0.855)=0.679$ dB (Spectrum Analyzer round it up to 0.68 dB) and for 2 Mbps, $DCF = 10\log(1/0.758)=1.203$ dB (Spectrum Analyzer round it up to 1.20 dB).

Pre-scans to detect harmonic and spurious emissions, the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 kHz for peak measurements.

The spectrum from 1 GHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

(From 30MHz to 1GHz, test was performed with the EUT set to transmit at the channel with highest output power)

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.

Note : Emission was pre-scanned from 9kHz to 30MHz; No emissions were detected which was at least 20dB below the specification limit (consider distance correction factor).
Per FCC part 15.31(o), test results were not reported.

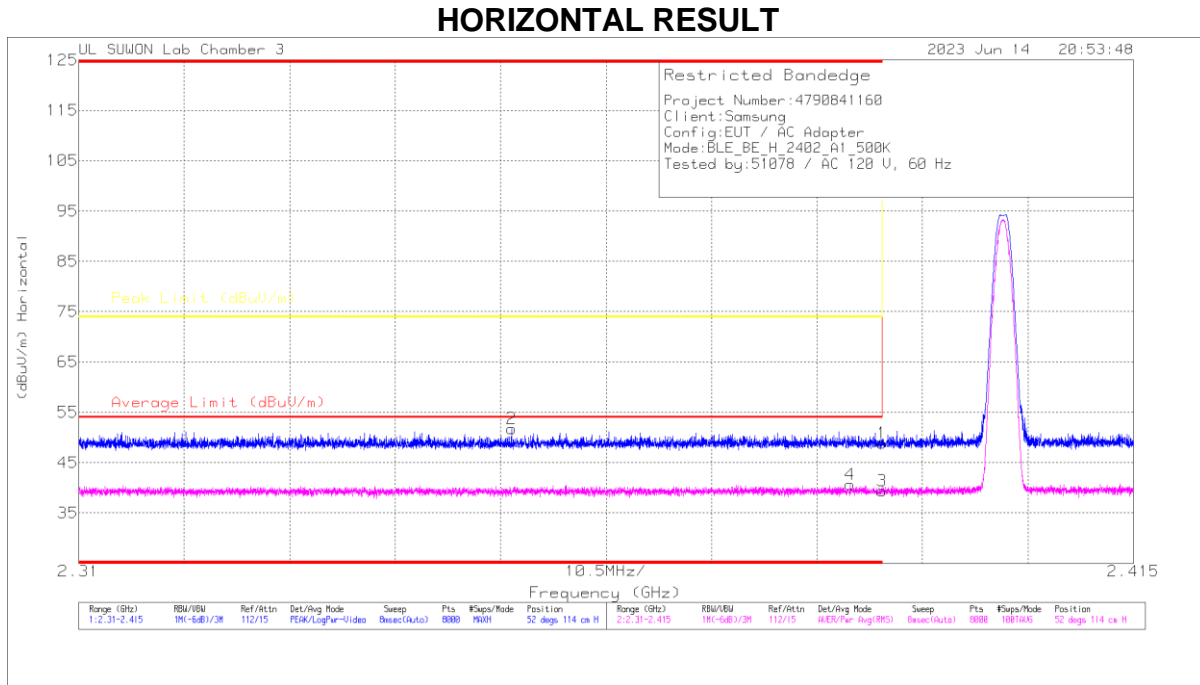
Although these tests were performed other than open field test site, adequate comparison measurements were confirmed against 30 m open are test site.

Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field based on KDB 414788.

10.2. TRANSMITTER ABOVE 1 GHz

10.2.1. 500 kbps_ANT1

BANDEDGE (0 CHANNEL)

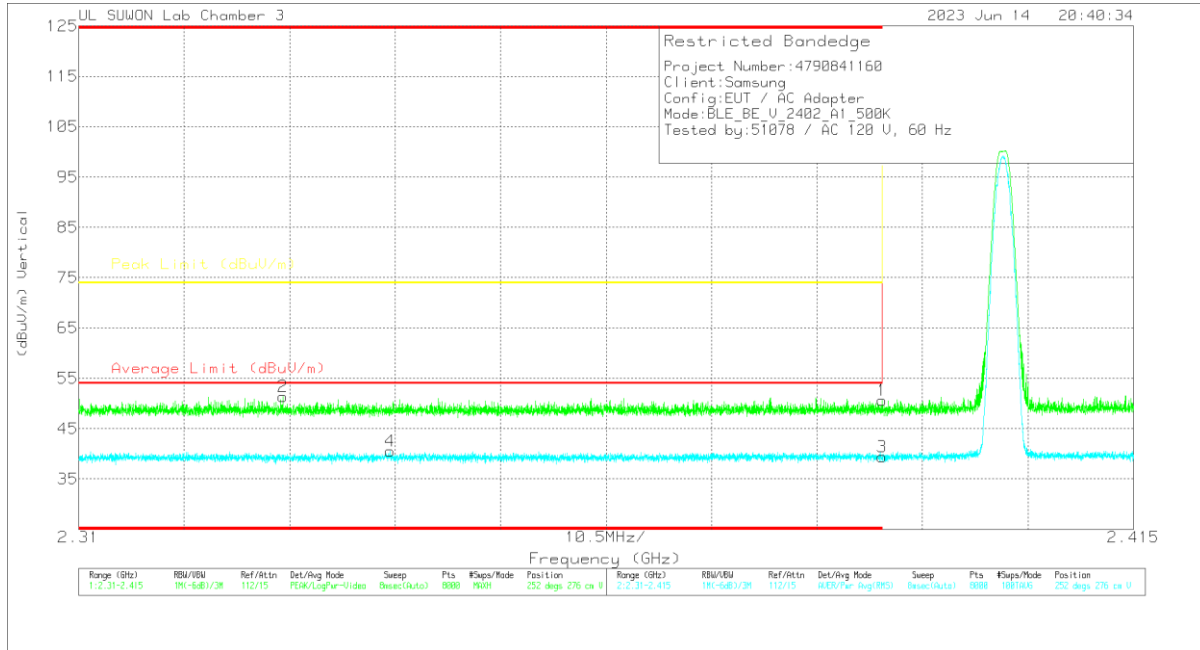


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.9	PK	32.1	-25.1	0	40.9	-	-	74	-25.1	52	114	H
2	* 2.35308	44.8	PK	32	-25.1	0	51.7	-	-	74	-22.3	52	114	H
3	* 2.39	31.73	RMS	32.1	-25.1	68	30.41	54	-14.59	-	-	52	114	H
4	* 2.38679	33	RMS	32.1	-25.1	68	40.68	54	-13.32	-	-	52	114	H

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

VERTICAL RESULT



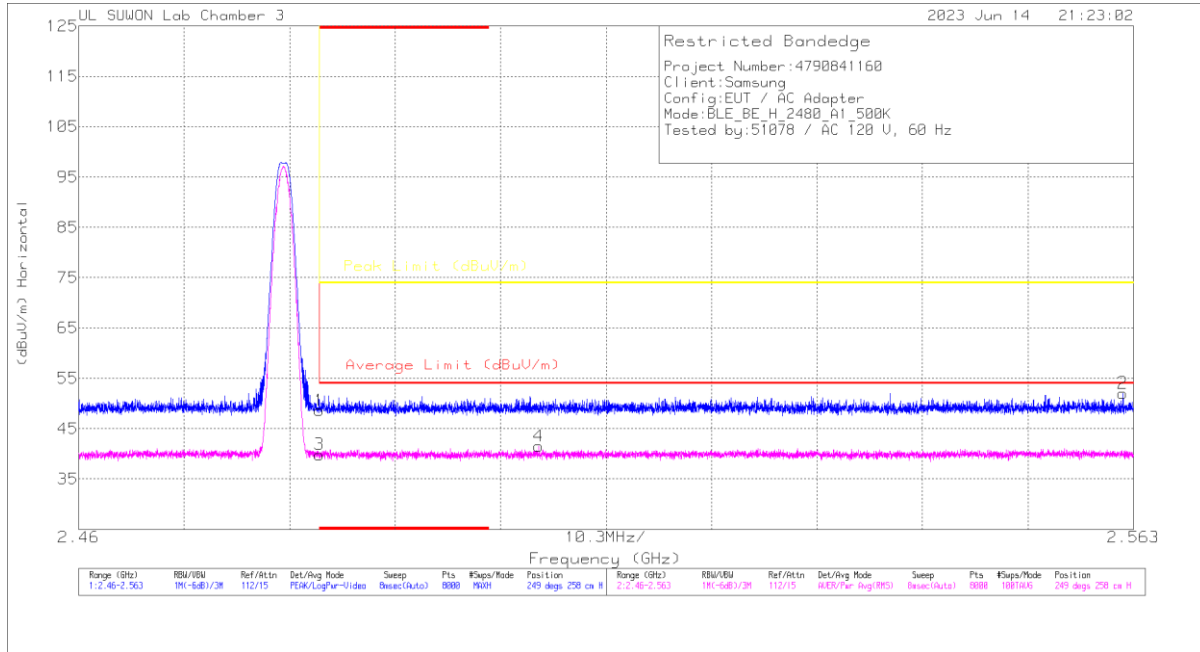
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	43.64	Pk	32.1	-25.1	0	50.64	-	-	74	-23.36	252	276	V
2	* 2.33032	44.73	Pk	31.9	-25.2	0	51.43	-	-	74	-22.57	252	276	V
3	* 2.39	31.72	RMS	32.1	-25.1	68	39.4	54	-14.6	-	-	252	276	V
4	* 2.34101	33.03	RMS	32	-25.2	68	40.51	54	-13.49	-	-	252	276	V

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

BANDEDGE (39 CHANNEL)

HORIZONTAL RESULT

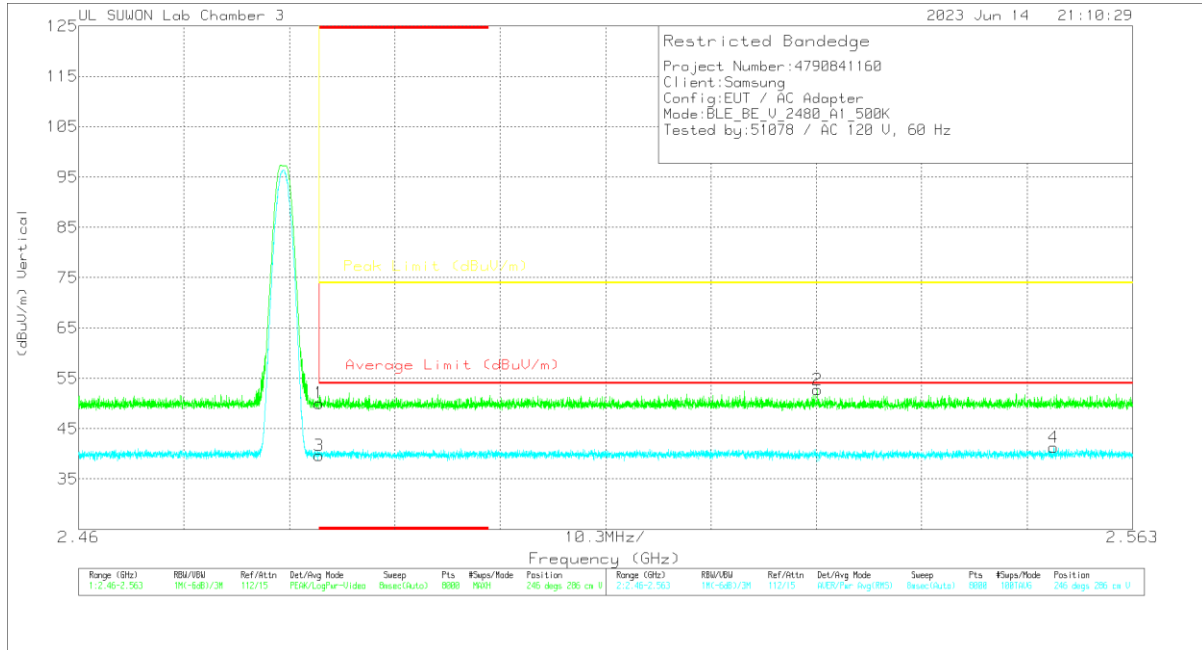


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	41.22	PK	32.4	-25	0	48.62	-	-	74	-25.38	249	258	H
2	2.56196	44.66	PK	32.4	-25	0	52.06	-	-	74	-21.94	249	258	H
3	* 2.4835	31.77	RMS	32.4	-25	.68	39.85	54	-14.15	-	-	249	258	H
4	2.5049	33.33	RMS	32.4	-24.9	.68	41.51	54	-12.49	-	-	249	258	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK - Peak detector
 RMS - RMS detection

VERTICAL RESULT



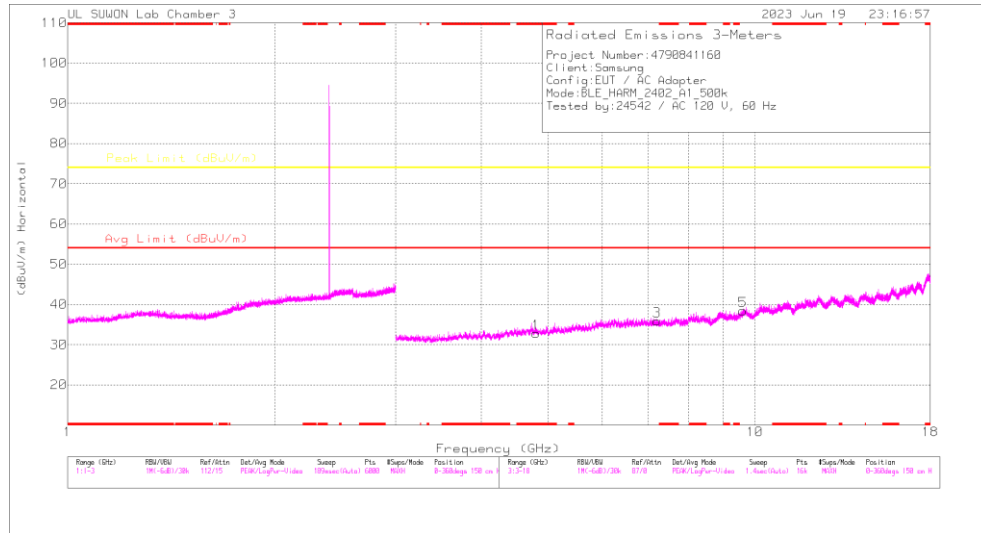
Trace Markers

Marker	Frequency (GHz)	Meas Reading (dBu)	Det	3117_00218957	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBu/m)	Average Limit (dBu/m)	Margin (dB)	Peak Limit (dBu/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	42.67	Pk	32.4	-25	0	50.07	-	-	74	-23.93	246	286	V
2	2.53223	45.22	Pk	32.4	-24.9	0	52.72	-	-	74	-21.28	246	286	V
3	* 2.4835	31.62	RMS	32.4	-25	.68	39.7	54	-14.3	-	-	246	286	V
4	2.55532	33.12	RMS	32.4	-24.9	.68	41.3	54	-12.7	-	-	246	286	V

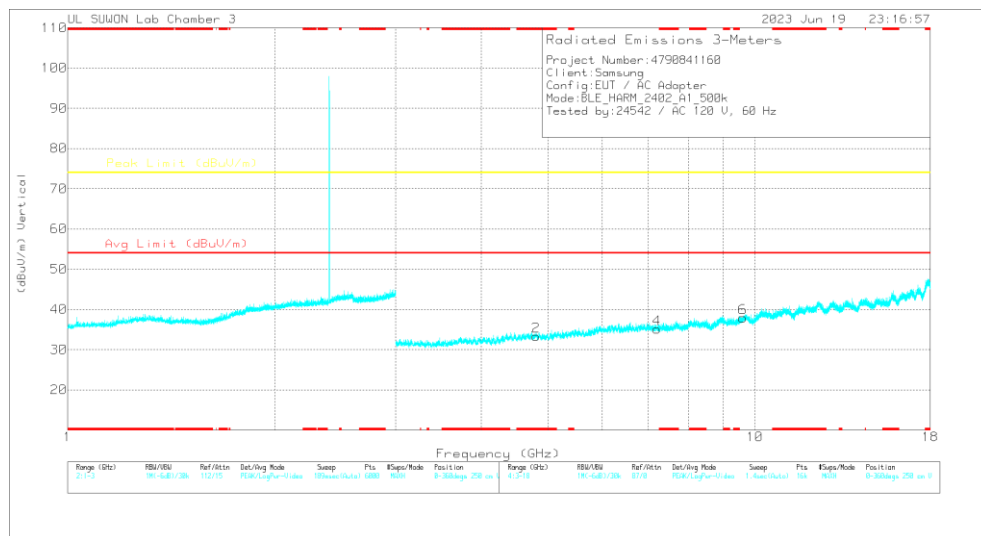
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

0 CHANNEL RESULTS



HORIZONTAL



VERTICAL

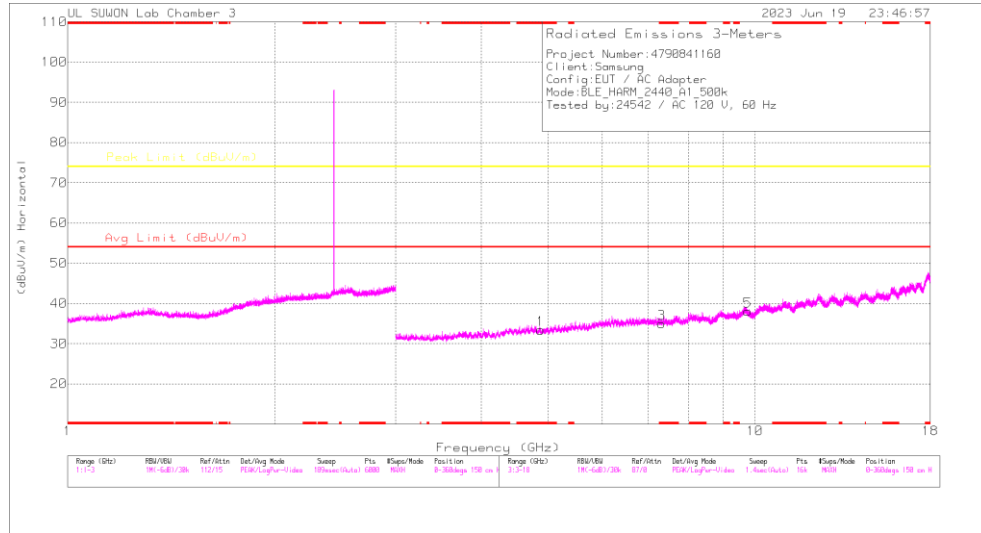
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Radiated Emissions

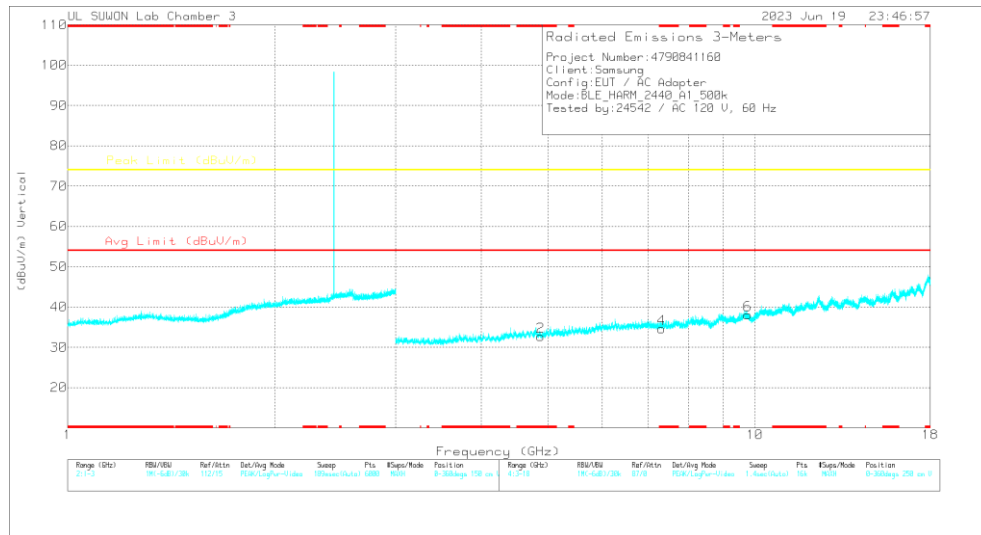
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	3GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.8015	39.86	PK2	34.3	-30.1	0	44.06	-	-	74	-29.94	0	100	H
* 4.80347	39.54	PK2	34.3	-30.1	0	43.74	-	-	74	-30.26	0	100	V
7.19956	36.07	PK2	35.8	-25.9	0	45.97	-	-	74	-28.03	0	100	H
7.20889	35.35	PK2	35.8	-25.8	0	45.35	-	-	74	-28.65	0	100	V
9.60974	32.27	PK2	36.7	-21.7	0	47.27	-	-	74	-26.73	0	100	H
9.60941	32.41	PK2	36.7	-21.7	0	47.41	-	-	74	-26.59	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak

19 CHANNEL RESULTS



HORIZONTAL



VERTICAL

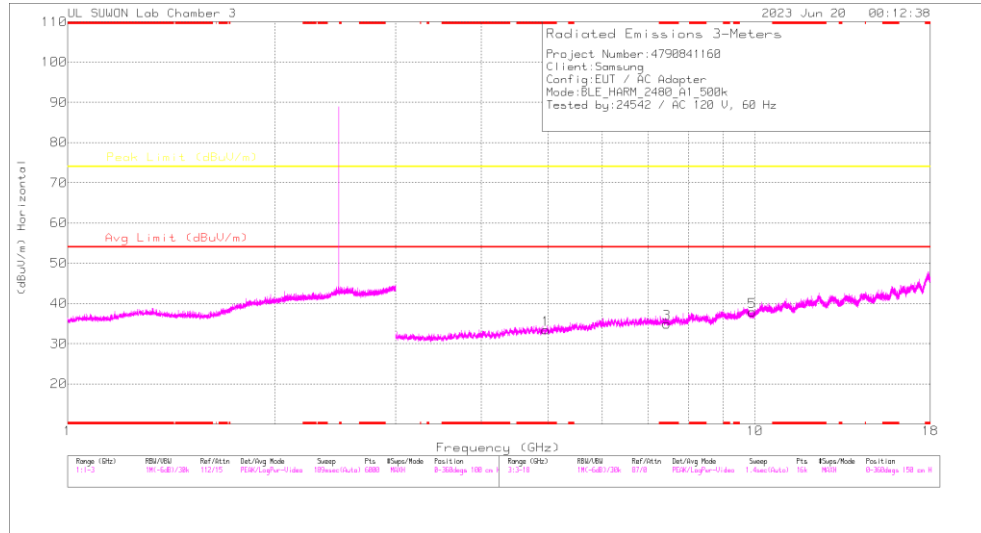
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Radiated Emissions

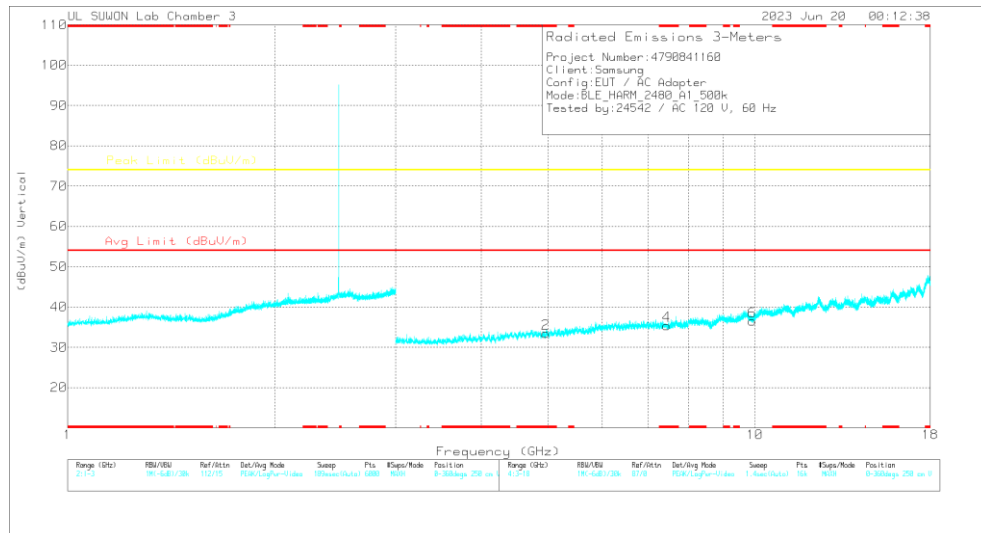
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	3GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.882	40.18	PK2	34.2	-30.9	0	43.48	-	-	74	-30.52	0	100	H
* 4.87451	40.33	PK2	34.2	-30.8	0	43.73	-	-	74	-30.27	0	100	V
* 7.31067	35.29	PK2	35.8	-25.5	0	45.59	-	-	74	-28.41	0	100	H
* 7.31235	35.2	PK2	35.8	-25.5	0	45.5	-	-	74	-28.5	0	100	V
9.75638	31.76	PK2	36.9	-21.2	0	47.46	-	-	74	-26.54	0	100	H
9.75168	32.49	PK2	36.9	-21.2	0	48.19	-	-	74	-25.81	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak

39 CHANNEL RESULTS



HORIZONTAL



VERTICAL

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Radiated Emissions

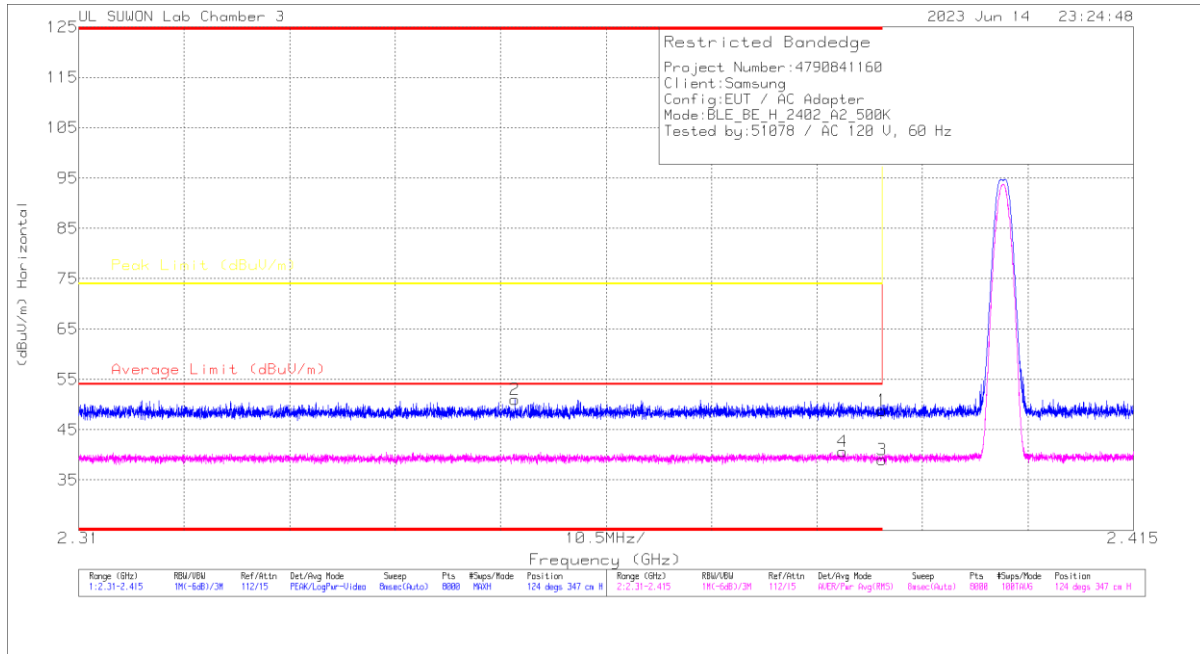
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	3GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.95318	39.87	PK2	34.3	-30.6	0	43.57	-	-	74	-30.43	0	100	H
* 4.96499	39.27	PK2	34.3	-30.5	0	43.07	-	-	74	-30.93	0	100	V
* 7.43266	34.75	PK2	35.7	-25.1	0	45.35	-	-	74	-28.65	0	100	H
* 7.43984	35.22	PK2	35.7	-25.1	0	45.82	-	-	74	-28.18	0	100	V
9.91951	31.04	PK2	37.1	-21.3	0	46.84	-	-	74	-27.16	0	100	H
9.91505	31.41	PK2	37.1	-21.3	0	47.21	-	-	74	-26.79	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak

10.2.2. 500 kbps ANT2

BANDEDGE (0 CHANNEL)

HORIZONTAL RESULT

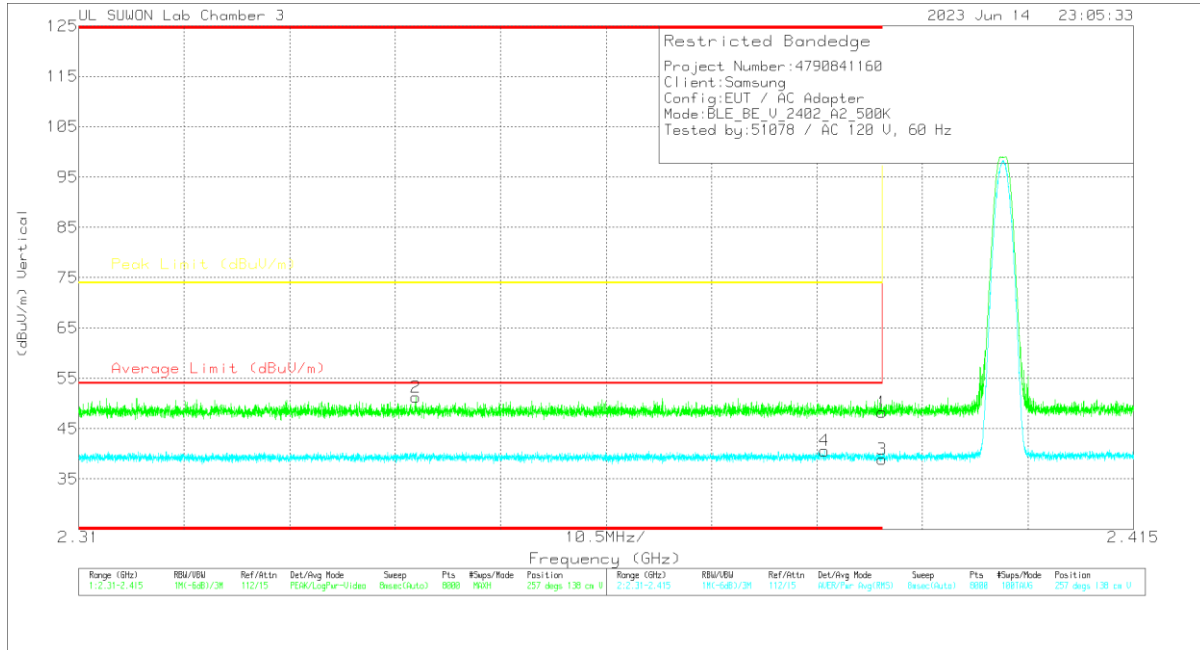


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.82	Pk	32.1	-25.1	0	48.92	-	-	74	-25.18	124	347	H
2	* 2.35342	44.16	Pk	32	-25.1	0	51.06	-	-	74	-22.94	124	347	H
3	* 2.39	31.36	RMS	32.1	-25.1	68	39.04	54	-14.96	-	-	124	347	H
4	* 2.38607	33.02	RMS	32.1	-25.1	68	40.7	54	-13.3	-	-	124	347	H

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

VERTICAL RESULT



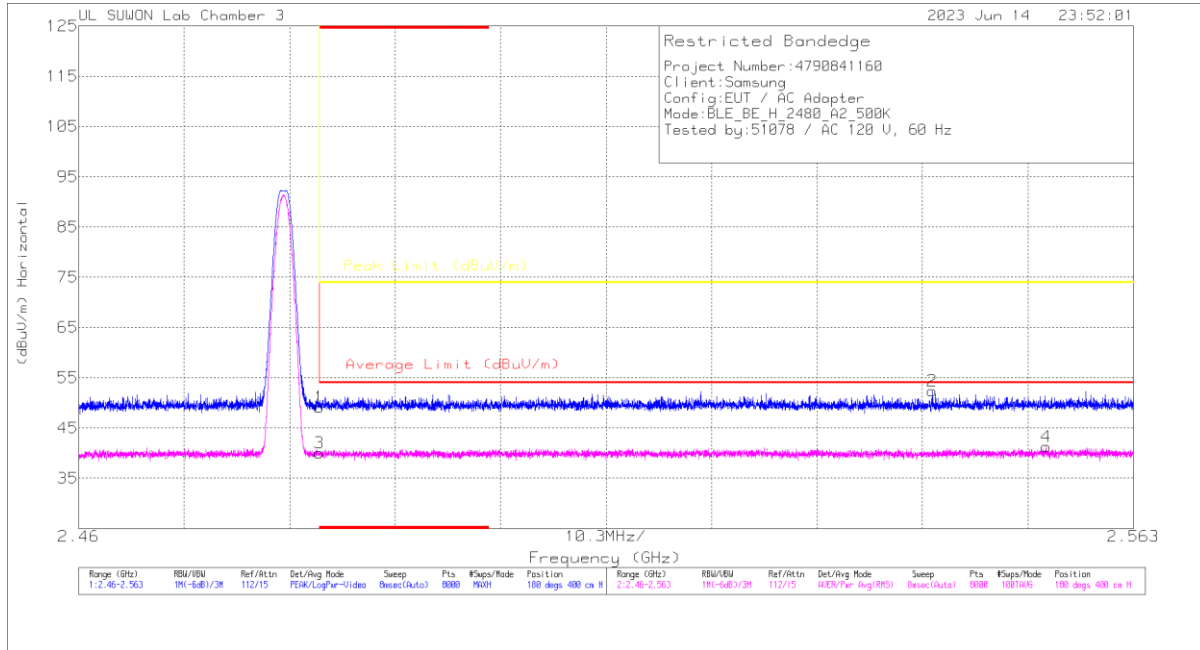
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.26	Pk	32.1	-25.1	0	48.26	-	-	74	-25.74	257	138	V
2	* 2.34354	44.39	Pk	32	-25.1	0	51.29	-	-	74	-22.71	257	138	V
3	* 2.39	31.27	RMS	32.1	-25.1	.68	38.95	54	-15.05	-	-	257	138	V
4	* 2.38422	32.92	RMS	32.1	-25.1	.68	40.6	54	-13.4	-	-	257	138	V

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

BANDEDGE (39 CHANNEL)

HORIZONTAL RESULT



Trace Markers

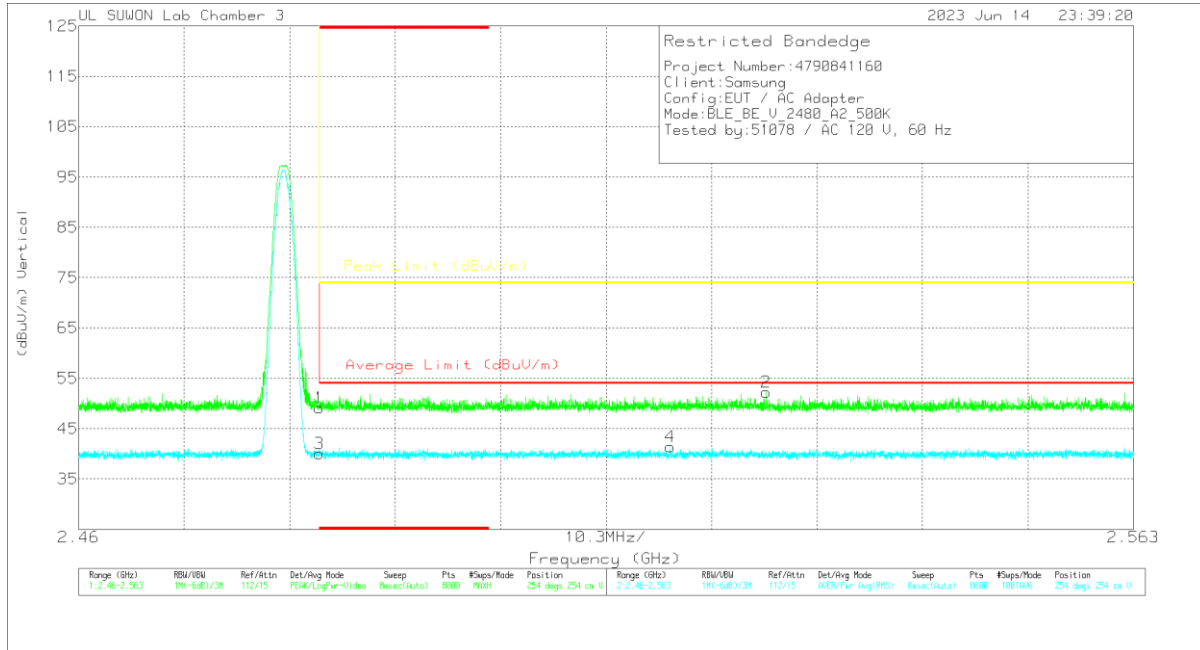
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Pk Margin (dB)	Azimuh (Degs)	Height (cm)	Polarity
1	* 2.4835	41.72	PK	32.4	-25	0	49.12	-	-	74	-24.88	180	400	H
2	2.54338	44.93	PK	32.4	-25	0	52.33	-	-	74	-21.67	180	400	H
3	* 2.4835	31.97	RMS	32.4	-25	.68	40.05	54	-13.95	-	-	180	400	H
4	2.55447	33.05	RMS	32.4	-24.9	.68	41.23	54	-12.77	-	-	180	400	H

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

PK - Peak detector

RMS - RMS detection

VERTICAL RESULT



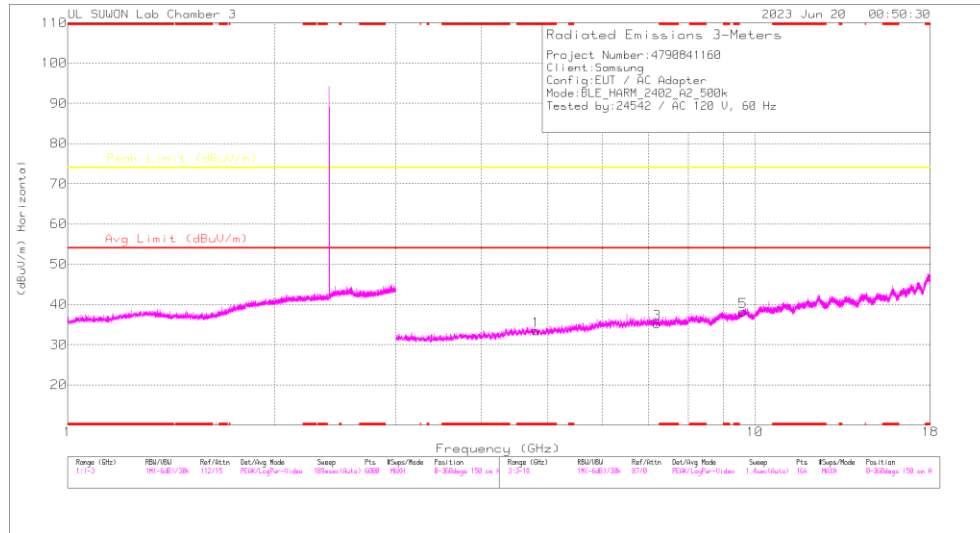
Trace Markers

Marker	Frequency (GHz)	Meas Reading (dBuV)	Det	3117_00218957	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	41.68	Pk	32.4	-25	0	49.08	-	-	74	-24.92	254	254	V
2	2.52711	44.71	Pk	32.4	-24.9	0	52.21	-	-	74	-21.79	254	254	V
3	* 2.4835	31.94	RMS	32.4	-25	.68	40.02	54	-13.98	-	-	254	254	V
4	2.51779	33.32	RMS	32.4	-25	.68	41.4	54	-12.6	-	-	254	254	V

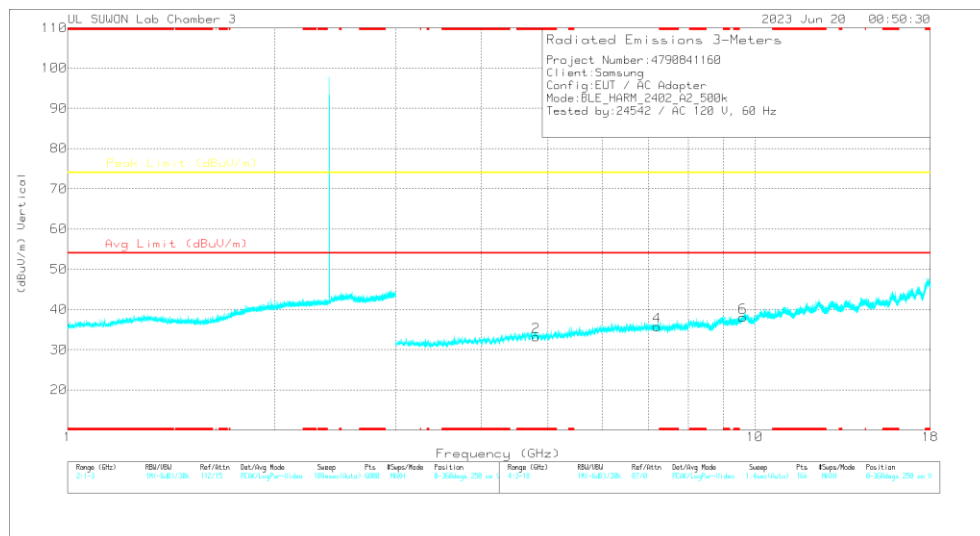
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

0 CHANNEL RESULTS



HORIZONTAL



VERTICAL

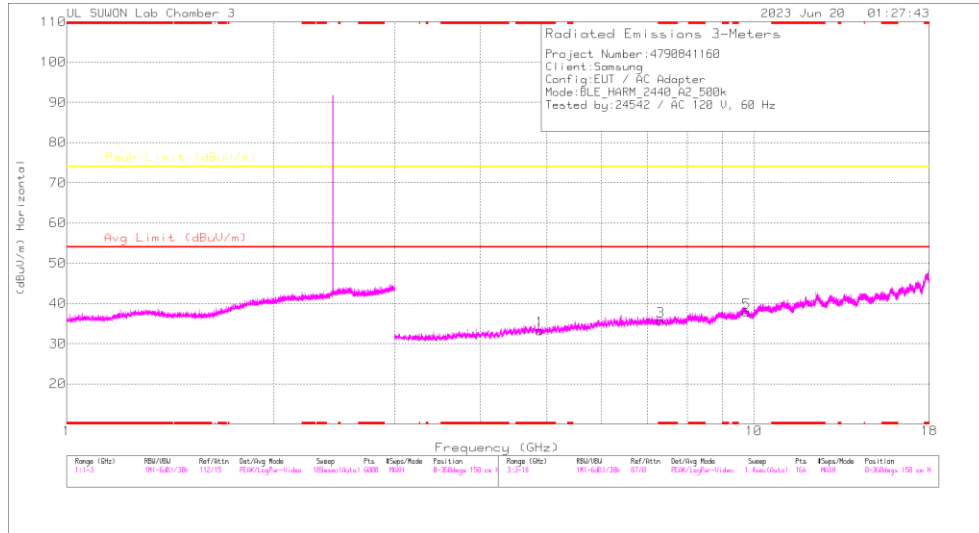
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Radiated Emissions

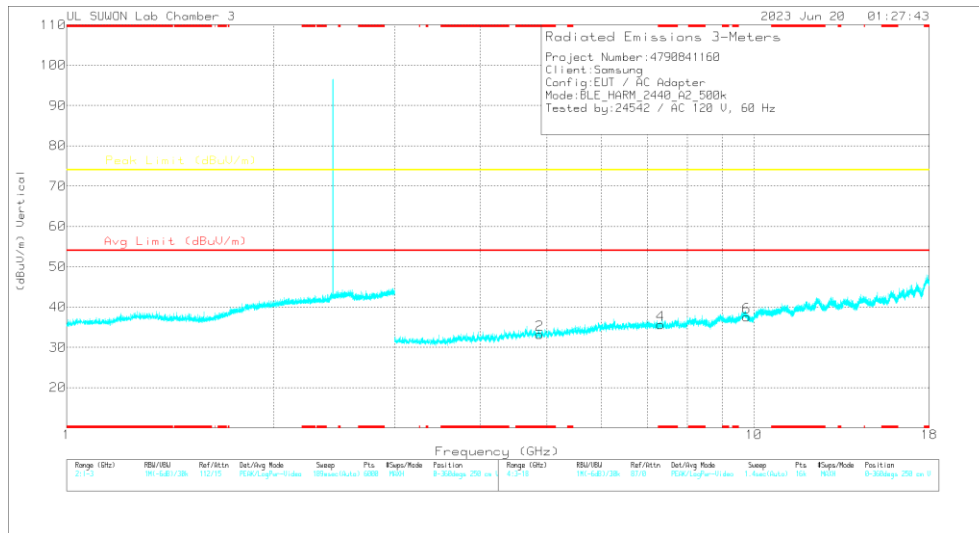
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	3GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.80468	40.35	PK2	34.3	-30.1	0	44.55	-	-	74	-29.45	0	100	H
* 4.8038	40.2	PK2	34.3	-30.1	0	44.4	-	-	74	-29.6	0	100	V
7.20713	35.45	PK2	35.8	-25.8	0	45.45	-	-	74	-28.55	0	100	H
7.20793	35.34	PK2	35.8	-25.9	0	45.24	-	-	74	-28.76	0	100	V
9.60652	32.48	PK2	36.7	-21.6	0	47.58	-	-	74	-26.42	0	100	H
9.60848	32.41	PK2	36.7	-21.7	0	47.41	-	-	74	-26.59	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak

19 CHANNEL RESULTS



HORIZONTAL



VERTICAL

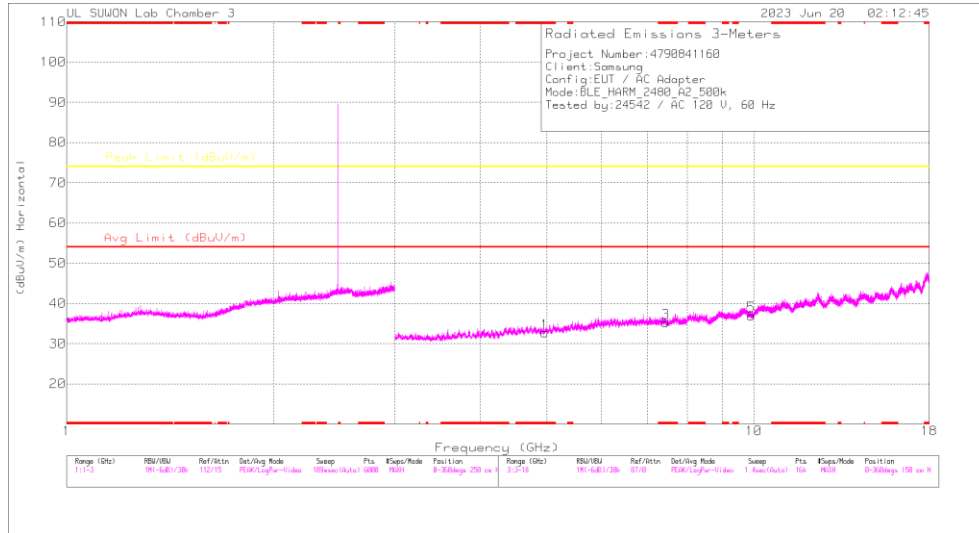
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Radiated Emissions

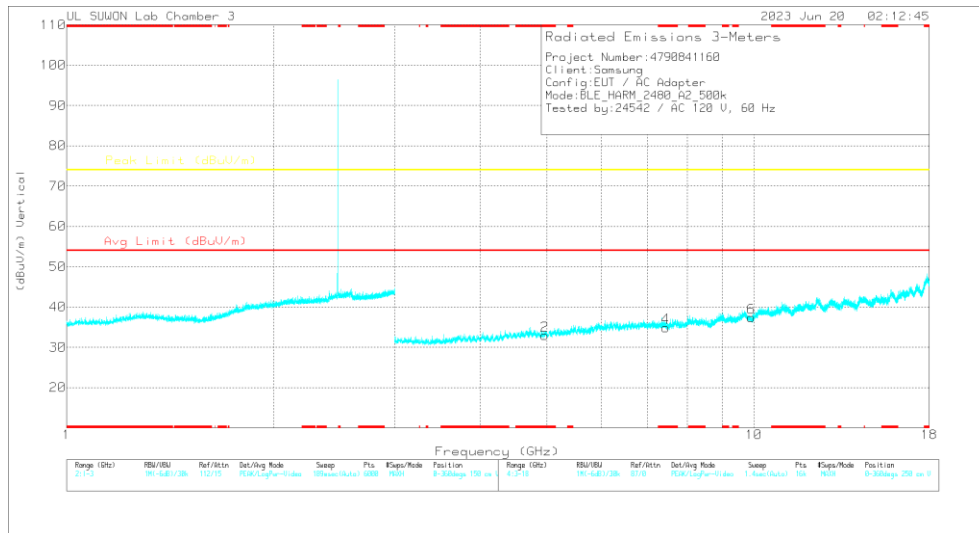
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	3GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.88094	39.98	PK2	34.2	-30.9	0	43.28	-	-	74	-30.72	0	100	H
* 4.88086	39.87	PK2	34.2	-30.9	0	43.17	-	-	74	-30.83	0	100	V
* 7.32004	34.97	PK2	35.8	-25.3	0	45.47	-	-	74	-28.53	0	100	H
* 7.3203	35.41	PK2	35.8	-25.3	0	45.91	-	-	74	-28.09	0	100	V
9.76064	32.45	PK2	36.9	-21.2	0	48.15	-	-	74	-25.85	0	100	H
9.7607	31.97	PK2	36.9	-21.2	0	47.67	-	-	74	-26.33	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak

39 CHANNEL RESULTS



HORIZONTAL



VERTICAL

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Radiated Emissions

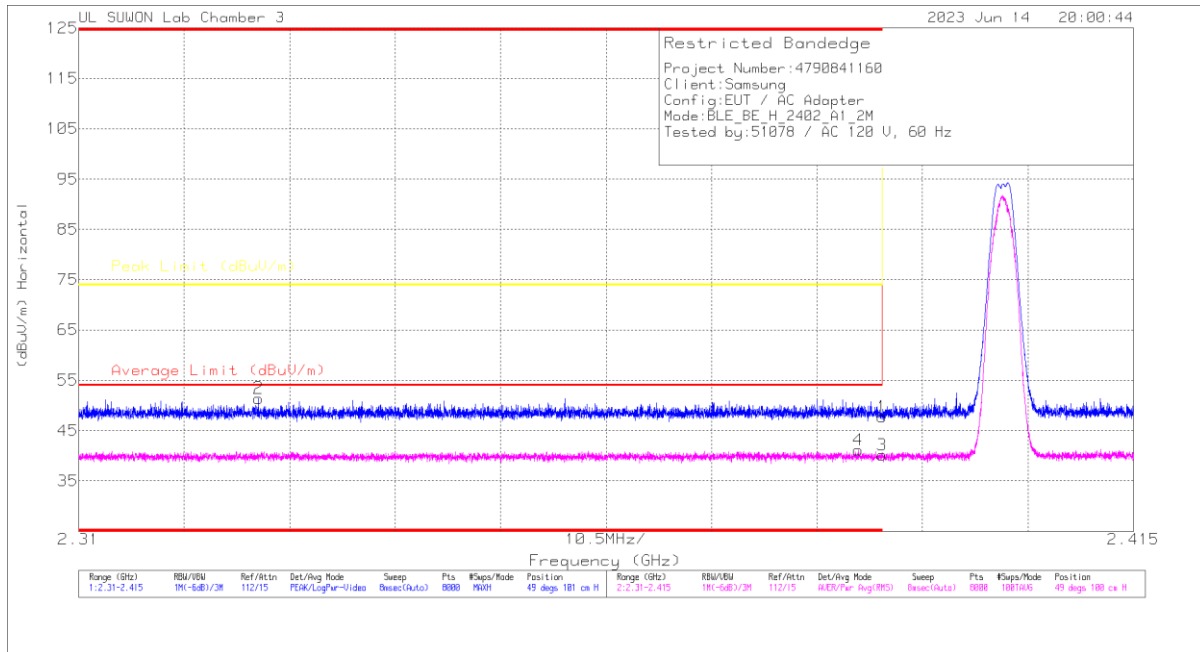
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	3GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.96141	39.5	PK2	34.3	-30.5	0	43.3	-	-	74	-30.7	0	100	H
* 4.96081	39.41	PK2	34.3	-30.5	0	43.21	-	-	74	-30.79	0	100	V
* 7.43989	35	PK2	35.7	-25.1	0	45.6	-	-	74	-28.4	0	100	H
* 7.4396	35.27	PK2	35.7	-25.1	0	45.87	-	-	74	-28.13	0	100	V
9.91991	31.71	PK2	37.1	-21.4	0	47.41	-	-	74	-26.59	0	100	H
9.91965	31.27	PK2	37.1	-21.4	0	46.97	-	-	74	-27.03	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak

10.2.3. 2 Mbps ANT1

BANDEDGE (0 CHANNEL)

HORIZONTAL RESULT

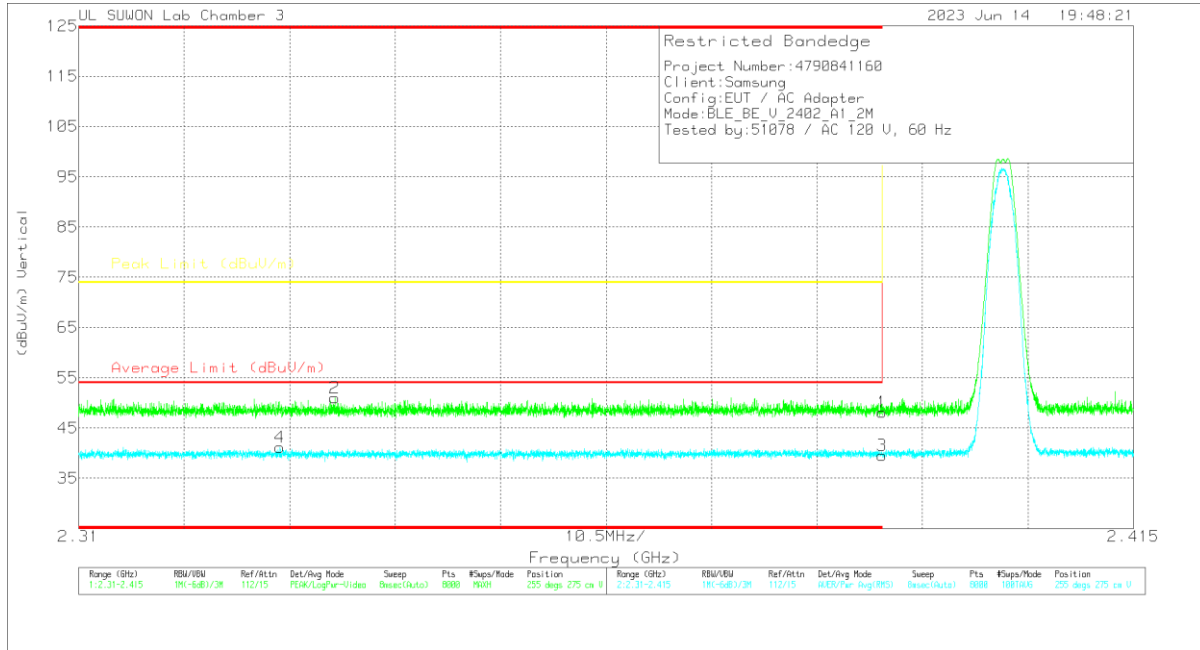


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.9	Pk	32.1	-25.1	0	47.8	-	-	74	-26.2	49	101	H
2	* 2.32789	44.64	Pk	31.9	-25.1	0	51.44	-	-	74	-22.56	49	101	H
3	* 2.39	32	RMS	32.1	-25.1	1.2	40.2	54	-13.8	-	-	49	100	H
4	* 2.38759	33.01	RMS	32.1	-25.1	1.2	41.21	54	-12.79	-	-	49	100	H

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

VERTICAL RESULT



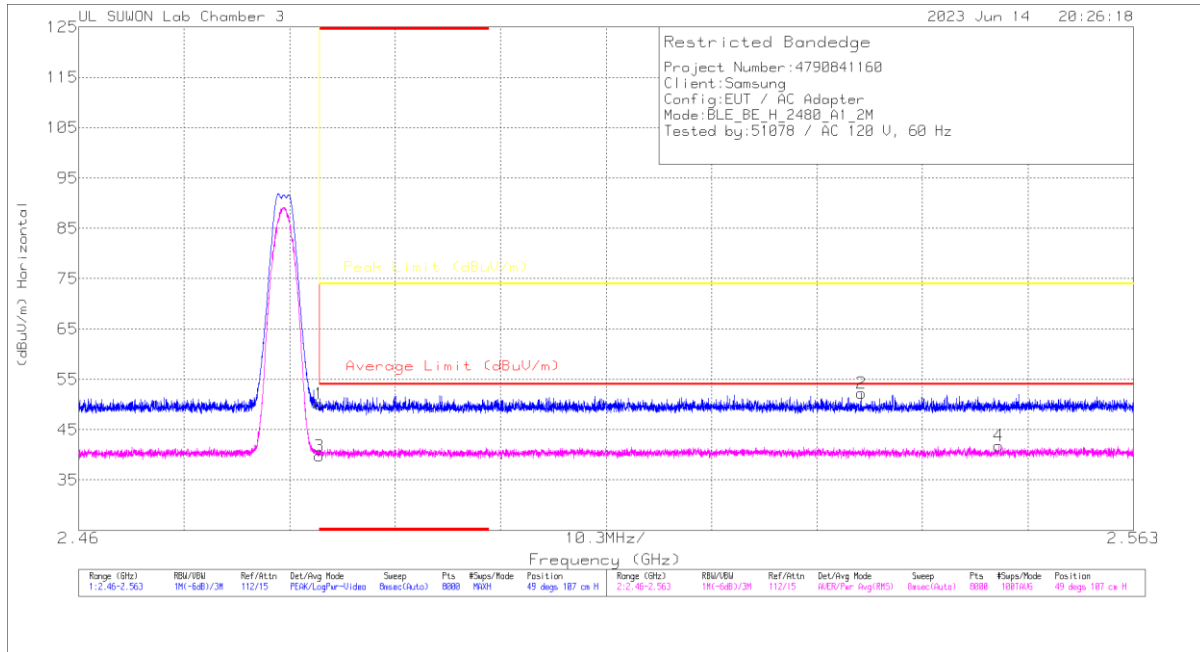
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.12	Pk		-25.1	0	48.12	-	-	74	-25.88	255	275	V
2	* 2.33548	44.24	Pk		-25.1	0	51.04	-	-	74	-22.96	255	275	V
3	* 2.39	31.33	RMS		-25.1	1.2	39.53	54	-14.47	-	-	255	275	V
4	* 2.33004	33.22	RMS		-25.2	1.2	41.12	54	-12.88	-	-	255	275	V

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

BANDEDGE (39 CHANNEL)

HORIZONTAL RESULT

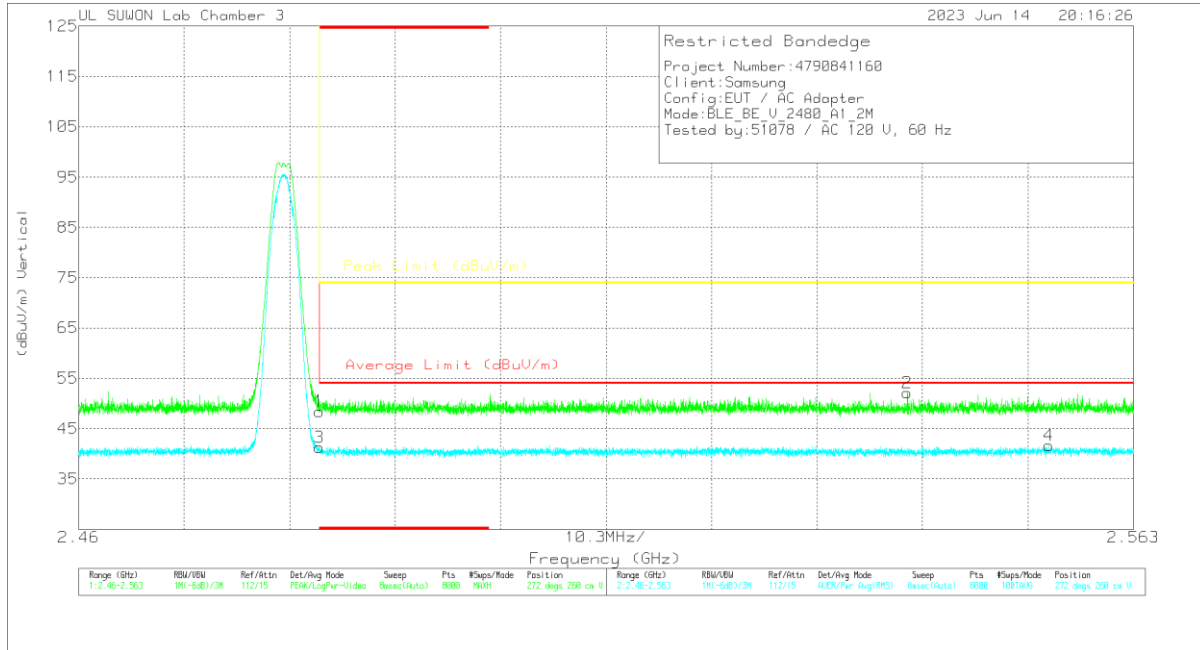


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBu)	Det	3117_00218957	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBu/m)	Average Limit (dBu/m)	Margin (dB)	Peak Limit (dBu/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	42.75	PK		-25	0	50.15	-	-	74	-23.85	49	107	H
2	2.53644	44.8	PK		-25	0	52.2	-	-	74	-21.8	49	107	H
3	* 2.4835	31.24	RMS		-25	1.2	30.84	54	-14.16	-	-	49	107	H
4	2.54983	33.24	RMS		-25	1.2	41.84	54	-12.16	-	-	49	107	H

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

VERTICAL RESULT



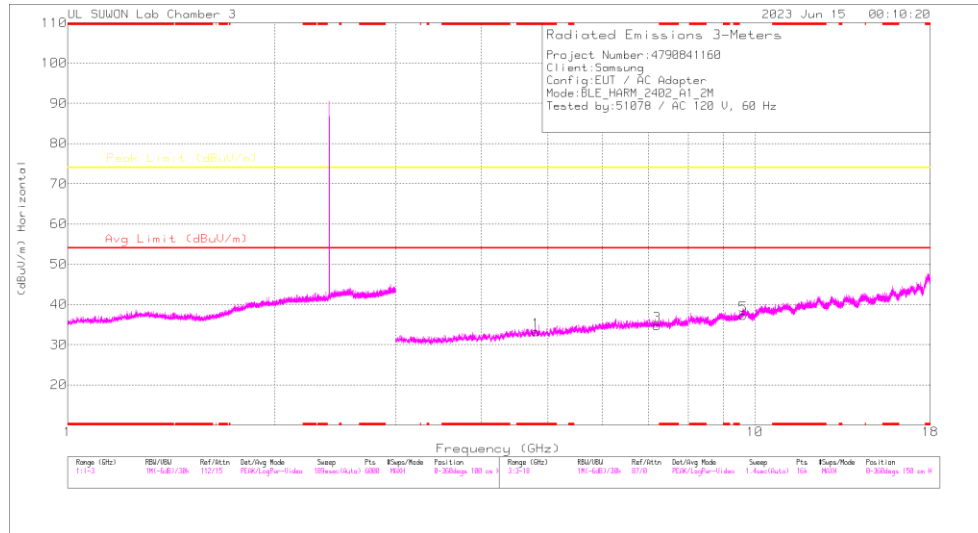
Trace Markers

Marker	Frequency (GHz)	Meas Reading (dBuV)	Det	3117_00218957	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	41.05	PK	32.4	-25	0	48.45	-	-	74	-25.55	272	260	V
2	2.54093	44.75	PK	32.4	-25	0	52.15	-	-	74	-21.85	272	260	V
3	* 2.4835	32.65	RMS	32.4	-25	1.2	41.25	54	-12.75	-	-	272	260	V
4	2.55474	32.97	RMS	32.4	-24.9	1.2	41.67	54	-12.33	-	-	272	260	V

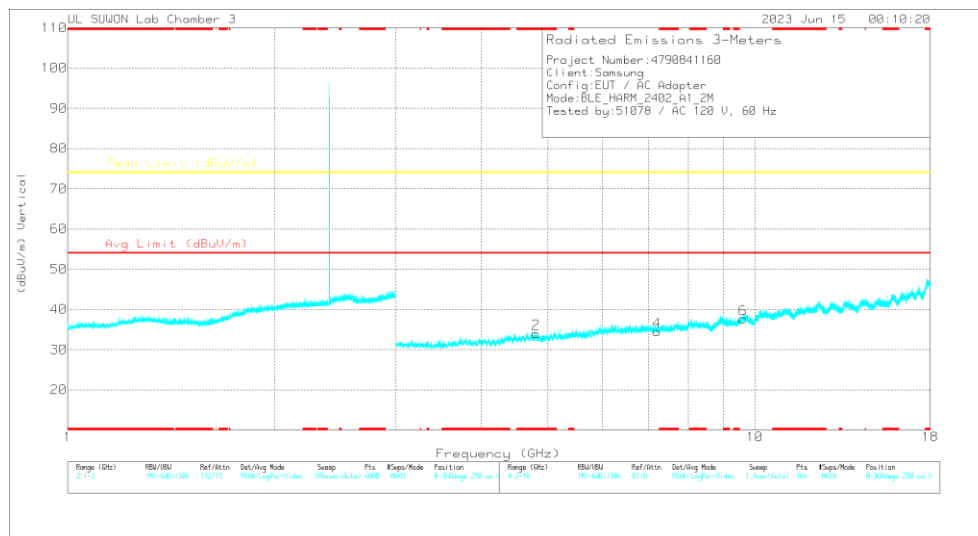
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

0 CHANNEL RESULTS



HORIZONTAL



VERTICAL

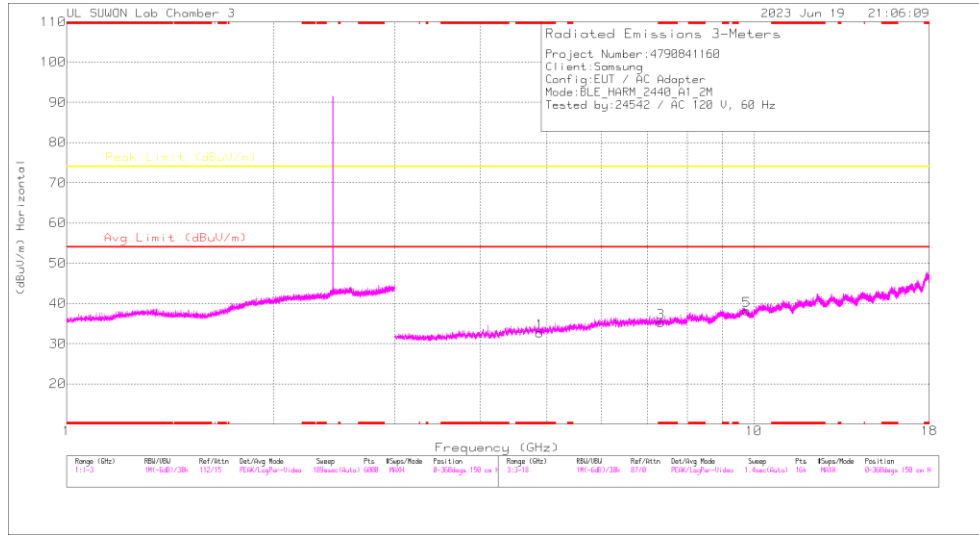
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Radiated Emissions

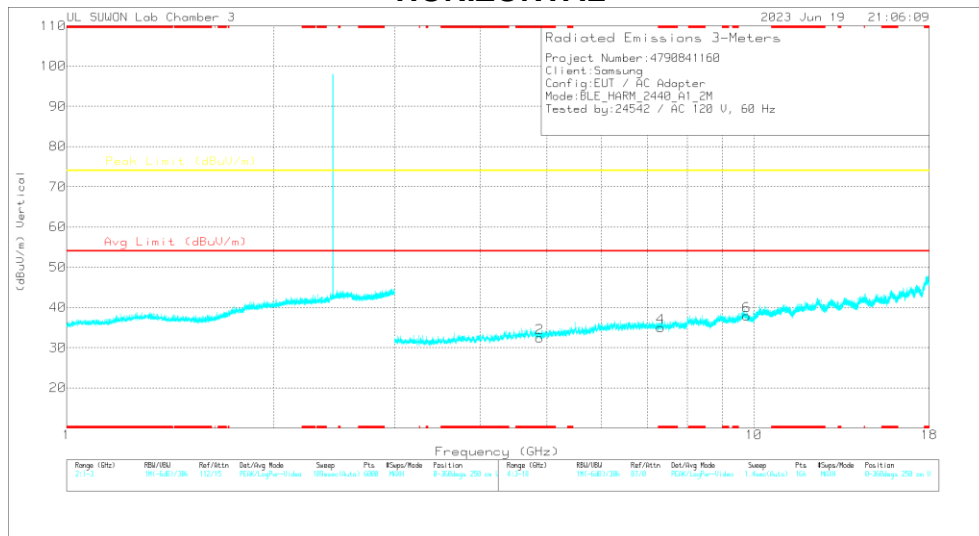
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	3GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.80681	39.53	PK2	34.3	-30.1	0	43.73	-	-	74	-30.27	0	100	H
* 4.80812	39.45	PK2	34.3	-30.1	0	43.65	-	-	74	-30.35	0	100	V
7.20092	35.48	PK2	35.8	-25.9	0	45.38	-	-	74	-28.62	0	100	H
7.20916	34.91	PK2	35.8	-25.8	0	44.91	-	-	74	-29.09	0	100	V
9.60886	32.45	PK2	36.7	-21.7	0	47.45	-	-	74	-26.55	0	100	H
9.60525	32.67	PK2	36.7	-21.6	0	47.77	-	-	74	-26.23	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak

19 CHANNEL RESULTS



HORIZONTAL



VERTICAL

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	3GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.87847	40.17	PK2	34.2	-30.8	0	43.57	-	-	74	-30.43	0	100	H
* 4.87179	40.45	PK2	34.2	-30.8	0	43.85	-	-	74	-30.15	0	100	V
* 7.32548	35.04	PK2	35.8	-25.3	0	45.54	-	-	74	-28.46	0	100	H
* 7.32329	35.29	PK2	35.8	-25.3	0	45.79	-	-	74	-28.21	0	100	V
9.76605	32.15	PK2	36.9	-21.1	0	47.95	-	-	74	-26.05	0	100	H
9.76728	31.76	PK2	36.9	-21.2	0	47.46	-	-	74	-26.54	0	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK2 - KDB558074 Method: Maximum Peak