Report Number:	R14777408-E1
Issue Date:	2023-08-15
FCC ID:	PY7-43624K

Electromagnetic Compatibility Test Report

For

Sony Corporation
1-7-1 Konan Minato-ku
Tokyo, 108-0075, Japan

TEST REPORT DETAILS

Tests Performed By:	UL LLC 12 Laboratory Dr. Research Triangle Park, NC 27709, USA
Tests Performed For:	Sony Corporation 1-7-1 Konan Minato-ku Tokyo, 108-0075, Japan
Issue Date:	2023-08-15
FCC ID:	PY7-43624K
Sample Serial Number:	QV7700CTHT, QV7700GUHT
Applicable Standards:	FCC 47 CFR PART 15 SUBPART B:2023
Date Test Item Received:	2023-07-06
Testing Start Date:	2023-07-06
Date Testing Complete:	2023-07-17
Overall Results:	Compliant

UL LLC 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 LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC 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 a2La, NIST, or any agency of the U.S. government.

REPORT DIRECTORY

REPORT REVISION HISTORY

Revision Date	Revision Version	Description	Revised By	Revision Reviewed By
2023-08-15	V1	Initial Issue	B. Kiewra	M. Antola

1.0 TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4:2014.

1.1 Deviations from standard test methods

None

1.2 Device Modifications Necessary for Compliance

None

1.3 TEST RESULTS SUMMARY

This product is considered Class B

Requirement – Test	Result (Compliant / Non-Compliant)
CONDUCTED EMISSIONS	Compliant
RADIATED EMISSIONS	Compliant

Approved & Released For
UL LLC. By:

Michael Antola
Staff Engineer
Consumer Technology Division
UL LLC.

Prepared By:

Brian Kiewra
Project Engineer
Consumer Technology Division
UL LLC.

2.0 DECISION RULES AND MEASUREMENT UNCERTAINTY

2.1 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

2.2 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).

2.3 Measurement Uncertainty

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

PARAMETER	U_{lab}
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3dB
Worst Case Radiated Disturbance, All ranges	6dB

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

2.4 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 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 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 dBuV + 0 dB +10.1 dB+ 0 dB = 46.6 dBuV

3.0 GENERAL - Product Description

3.1 Equipment Description

GSM/WCDMA/LTE/5G Phone with BT, DTS/UNII a/b/g/n/ac/ax, GPS, WPT & NFC

3.2 Device Configuration During Test

3.2.1 Equipment Used During Test:

Use	Product Type	Manufacturer	Model	Comments
EUT	Cell phone	Sony	PY7-43624K	None
AE	Headphones	Sony	MDR-EX15AP	None
AE	Power Supply	Sony	XQZ-UC1	None
AE	Laptop	Dell	Inspiron 15 3000	Used for PC peripheral setup
AE	Power Supply	Dell	DA65NM191	Used for PC peripheral setup
AE	Monitor	ViewSonic	VS15453	Used for PC peripheral setup
AE	Mouse	Amazon Basics	MSU0939	Used for PC peripheral setup
Note: **EUT** - Equipment Under Test, **AE** - Auxiliary/Associated Equipment, or **SIM** - Simulator (Not Subjected to Test)				

3.2.2 Input/Output Ports:

Port #	Name	Type*	Cable Max. >3m (Y/N)	Cable Shielded (Y/N)	Comments
0	Enclosure	N/E	—	—	None
1	USB-C	DC	N	N	Connected to power supply/laptop
2	Audio	I/O	N	N	Connected to headphones
3	HDMI	I/O	N	N	Connected to monitor for PC Peripheral setup
4	Mains	I/O	N	N	Connected to PC Peripheral laptop power supply
5	USB	I/O	N	N	Connected to mouse for PC Peripheral setup
*Note: AC = AC Power Port DC = DC Power Port N/E = Non-Electrical I/O = Signal Input or Output Port (Not Involved in Process Control) TP = Telecommunication Ports					

3.2.3 EUT Highest Frequencies:

Frequency (MHz)	Description
5825	Highest Tx Frequency

3.2.4 Power Interface:

Mode # /Rated	Voltage (V)	Current (A)	Power (W)	Frequency (DC/AC-Hz)	Phases (#)	Comments
Rated	100-240	-	-	50/60	Single	None
1	120Vac	-	-	60Hz	Single	Power Supply
2	4.28Vdc	-	-	DC	-	Battery
3	5Vdc	-	-	DC	-	USB (PC Peripheral)

3.2.5 Subassemblies

Description	Manufacturer	Model
None		

3.2.6 Manufacturer's Description of Model Differences

None

3.2.7 Software and Firmware

The software installed during testing was 5.33 for unintentional idle testing and 5.34 for WWAN Rx mode testing.

3.3 Block Diagram

Refer to R14777408-EP1 for block diagram and setup photos.

3.4 EUT Configurations

Configuration #	Description
1	Configured as tabletop equipment

3.5 EUT Operation Modes

Mode of Operation#	Description
1	Operating as intended on battery. Radio idle.
2	Operating as intended connected to power supply. Radio idle.
3	Operating as intended connected to power supply. Radio in Rx mode on supported LTE bands that transmit <960MHz. Note: LTE B5 covers GSM850, WCDMA Band 5 and LTE B12 covers B17. Callbox was used to ensure that EUT was placed in Rx mode.
4	Operating as intended connected as PC Peripheral. Radio idle.

Supported Band(s)	Down Link Frequency Range (MHz)
GSM850, WCDMA 5, LTE B5	869-894
LTE B12	729-746
LTE B13	746-756
LTE B17	734-746

3.6 Rationale for EUT Configurations

Configuration #	Description
1	EUT was investigated in three orientations, X, Y, and Z. It was determined that worst-case orientation for radiated testing was Y for AC Adaptor, PC Peripheral modes, and battery mode.

3.7 Rationale for EUT Mode of Operation

Mode of Operation #	Description
1,2,3,4	EUT capable of operating on battery, connected to power supply, or connected as PC peripheral. LTE Rx tested on AC Adaptor as worst-case over battery.

4.0 APPLICABLE EMISSIONS LIMITS AND TEST RESULTS

4.1 Test Conditions and Results - MAINS TERMINAL - CONDUCTED EMISSIONS

Test Engineer	84740	
Test Date	2023-07-06, 2023-07-11	
Laboratory Parameters	Required prior to the test	During the test
Ambient Temperature	10 to 40 °C	20.8 - 21.5°C
Humidity	10 % to 90 %	47.8 - 51.2%
	Frequency range on each side of line	Measurement Point
Fully configured sample scanned over the following frequency range	150kHz to 30MHz	Mains

Limits - Class B

Frequency (MHz)	Limit (dBµV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

Supplementary information: None

Conducted Emissions EUT Configuration Settings

Power Interface #	EUT Configurations #	EUT Mode of Operation#
1,3	1	2,4

Supplementary information: Testing performed on EUT SN: QV7700CTHT

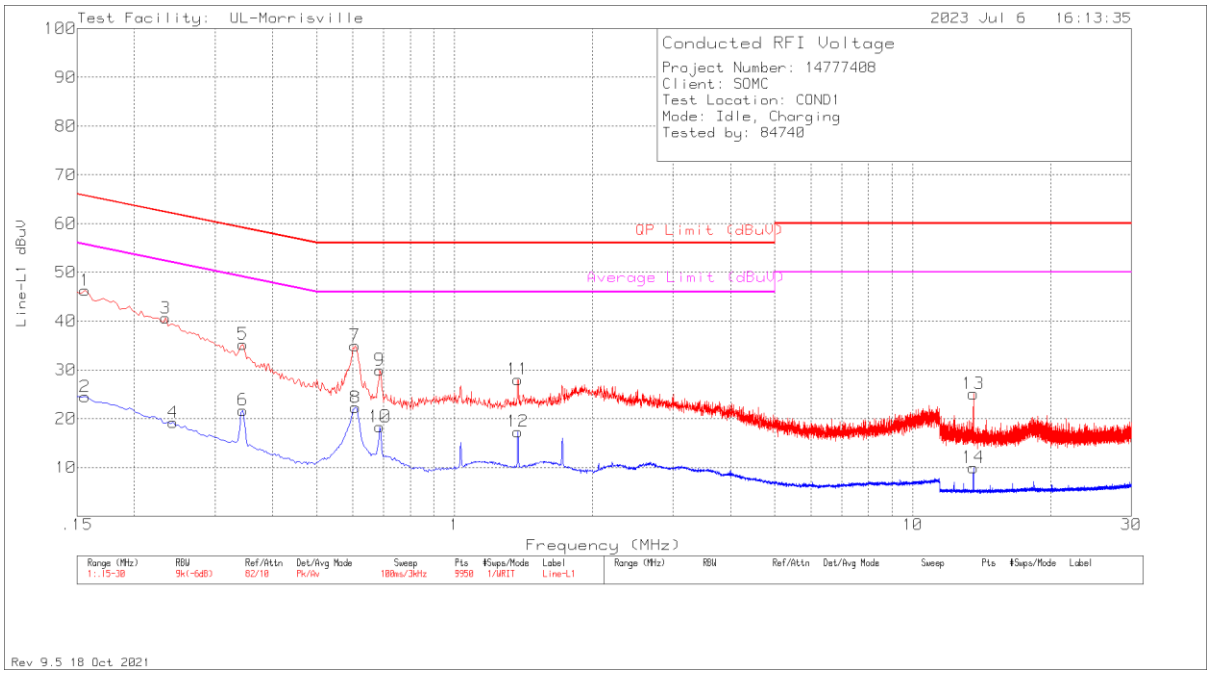
Refer to R14777408-EP1 for block diagram and setup photos.

Conducted Emissions Test Equipment

Test Equipment Used - Line-Conducted Emissions – Voltage (Morrisville – Conducted 1)

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
CBL087	Coax cable, RG223, N-male to BNC-male, 20-ft.	Pasternack	PE3W06143-240	2023-04-04	2024-04-04
HI0091	Environmental Meter	Fisher Scientific	15-077-963	2022-07-20	2023-07-20
LISN003	LISN, 50-ohm/50-uH, 250uH 2-conductor, 25A	Fischer Custom Com.	FCC-LISN-50/250-25-2-01	2022-08-01	2023-08-01
75141	EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESCI 7	2022-08-03	2023-08-03
52859	Transient Limiter, 0.009-100MHz	Electro-Metrics	EM-7600	2023-04-04	2024-04-04
PS214	AC Power Source	Elgar	CW2501M (s/n 1523A02396)	NA	NA
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
CDECABLE001	ANSI C63.4 1m extension cable.	UL	Per Annex B of ANSI C63.4	2022-09-12	2023-09-12

Conducted Emissions Graph – AC Adaptor Line 1

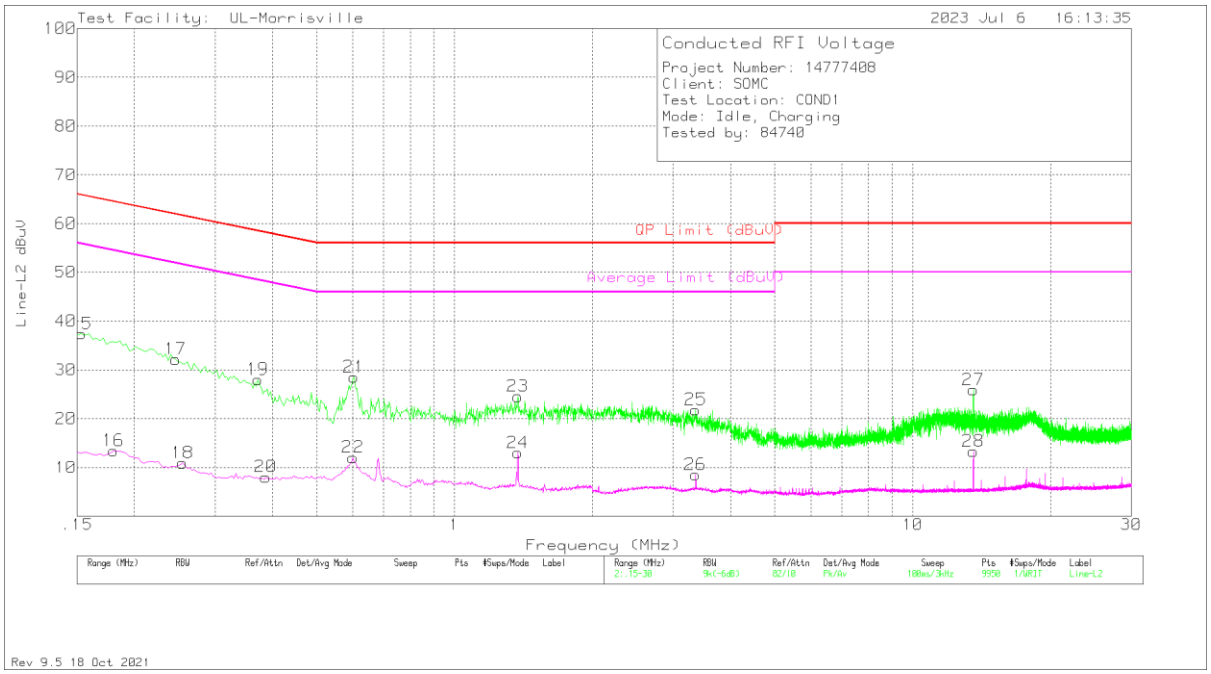


Conducted Emissions Data Points – AC Adaptor Line 1

Range 1: Line-L1 .15 - 30MHz										
Marker	**Frequency (MHz)**	**Meter Reading (dBuV)**	**Det**	**LISN VCF (dB)**	**Cbl/Limiter (dB)**	**Corrected Reading dBuV**	**QP Limit (dBuV)**	**Margin (dB)**	**Average Limit (dBuV)**	**Margin (dB)**
1	.156	36.28	Pk	.2	9.8	46.28	65.67	-19.39	-	-
2	.156	14.51	Av	.2	9.8	24.51	-	-	55.67	-31.16
3	.234	30.71	Pk	.1	9.8	40.61	62.31	-21.7	-	-
4	.243	9.29	Av	.1	9.8	19.19	-	-	51.99	-32.8
5	.345	25.37	Pk	.1	9.8	35.27	59.08	-23.81	-	-
6	.345	11.83	Av	.1	9.8	21.73	-	-	49.08	-27.35
7	.606	25.21	Pk	0	9.8	35.01	56	-20.99	-	-
8	.6075	12.52	Av	0	9.8	22.32	-	-	46	-23.68
9	.687	20.14	Pk	0	9.8	29.94	56	-26.06	-	-
10	.687	8.53	Av	0	9.8	18.33	-	-	46	-27.67
11	1.374	18.26	Pk	0	9.8	28.06	56	-27.94	-	-
12	1.374	7.54	Av	0	9.8	17.34	-	-	46	-28.66
13	13.563	15	Pk	.1	10	25.1	60	-34.9	-	-
14	13.56	-.13	Av	.1	10	9.97	-	-	50	-40.03

Pk - Peak detector
Av - Average detection

Conducted Emissions Graph – AC Adaptor Line 2

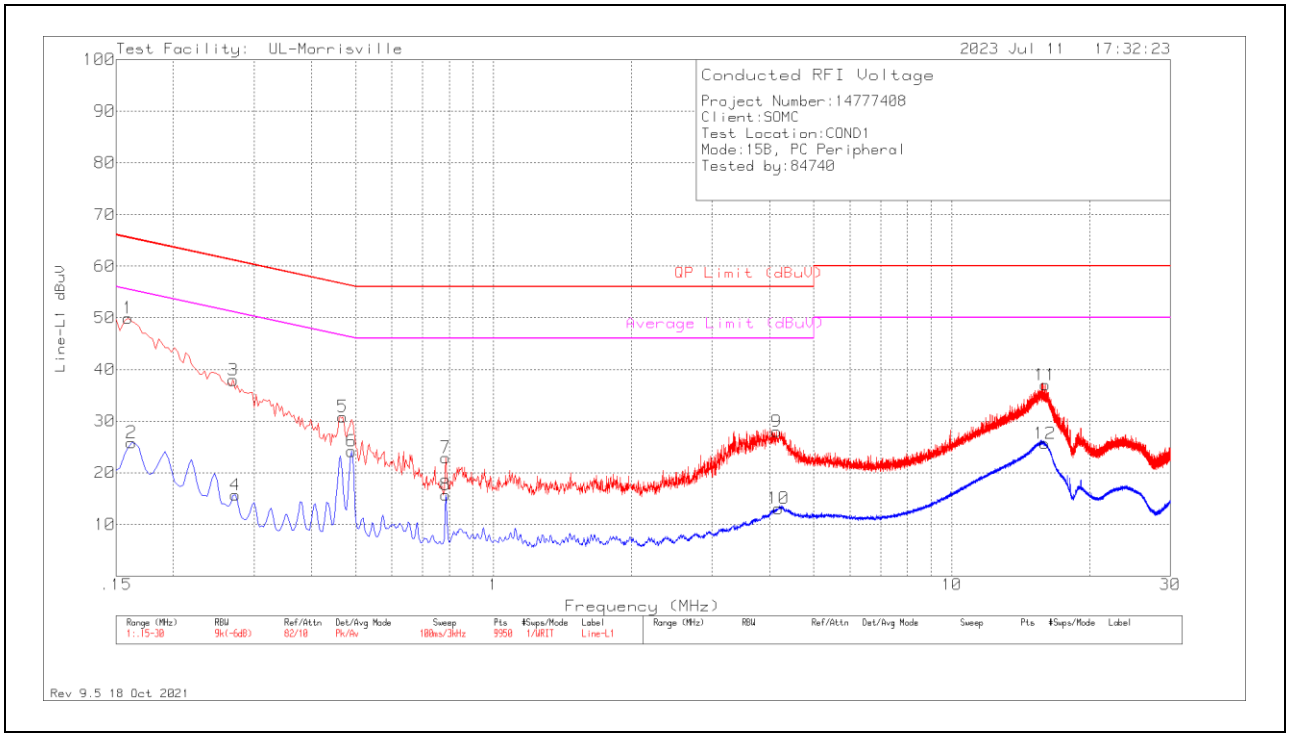


Conducted Emissions Data Points – AC Adaptor Line 2

Range 2: Line-L2 .15 - 30MHz										
Marker	**Frequency (MHz)**	**Meter Reading (dBuV)**	**Det**	**LISN VCF (dB)**	**Cbl/Limiter (dB)**	**Corrected Reading dBuV**	**QP Limit (dBuV)**	**Margin (dB)**	**Average Limit (dBuV)**	**Margin (dB)**
15	.153	27.41	Pk	.2	9.8	37.41	65.84	-28.43	-	-
16	.18	3.43	Av	.2	9.8	13.43	-	-	54.49	-41.06
17	.246	22.29	Pk	.1	9.8	32.19	61.89	-29.7	-	-
18	.255	1.02	Av	.1	9.8	10.92	-	-	51.59	-40.67
19	.372	18.13	Pk	.1	9.8	28.03	58.46	-30.43	-	-
20	.387	-1.85	Av	.1	9.8	8.05	-	-	48.13	-40.08
21	.603	18.72	Pk	0	9.8	28.52	56	-27.48	-	-
22	.6	2.26	Av	0	9.8	12.06	-	-	46	-33.94
23	1.374	14.78	Pk	0	9.8	24.58	56	-31.42	-	-
24	1.374	3.22	Av	0	9.8	13.02	-	-	46	-32.98
25	3.36	12.04	Pk	0	9.8	21.84	56	-34.16	-	-
26	3.354	-1.28	Av	0	9.8	8.52	-	-	46	-37.48
27	13.56	15.8	Pk	.1	10	25.9	60	-34.1	-	-
28	13.56	3.21	Av	.1	10	13.31	-	-	50	-36.69

Pk - Peak detector
Av - Average detection

Conducted Emissions Graph – PC Peripheral Line 1

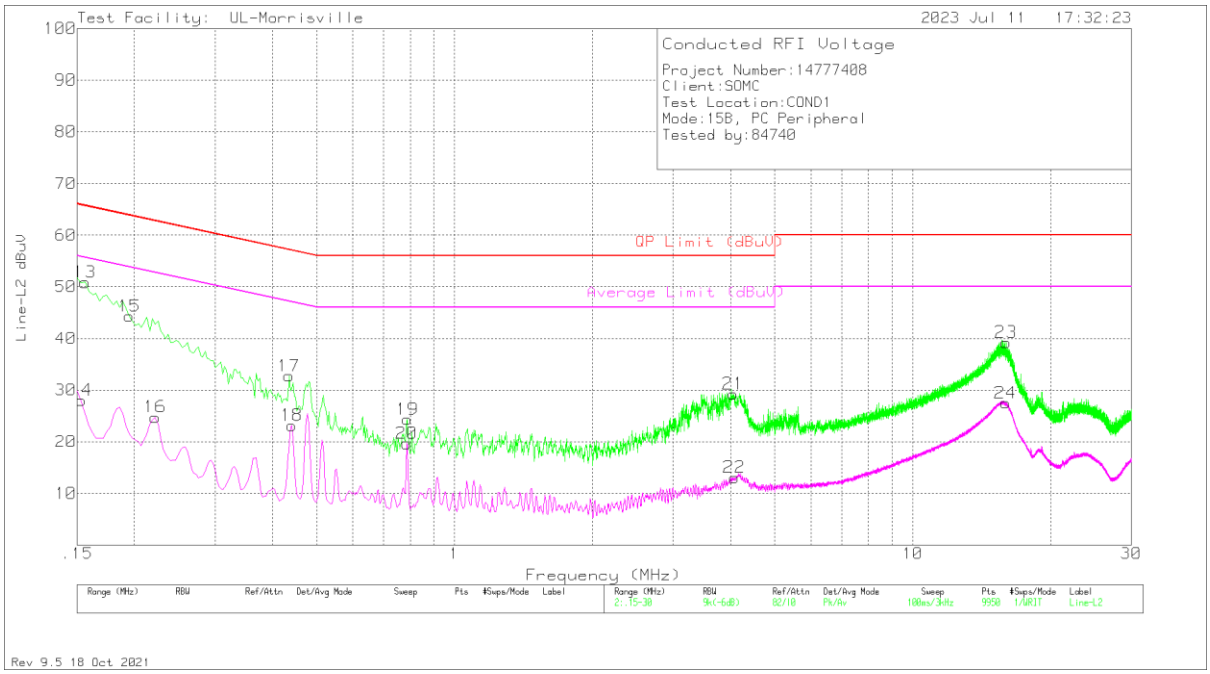


Conducted Emissions Data Points – PC Peripheral Line 1

Range 1: Line-L1 .15 - 30MHz										
Marker	**Frequency (MHz)**	**Meter Reading (dBuV)**	**Det**	**LISN VCF (dB)**	**Cbl/Limiter (dB)**	**Corrected Reading dBuV**	**QP Limit (dBuV)**	**Margin (dB)**	**Average Limit (dBuV)**	**Margin (dB)**
1	.159	39.93	Pk	.2	9.8	49.93	65.52	-15.59	-	-
2	.162	15.82	Av	.2	9.8	25.82	-	-	55.36	-29.54
3	.27	28.05	Pk	.1	9.8	37.95	61.12	-23.17	-	-
4	.273	5.78	Av	.1	9.8	15.68	-	-	51.03	-35.35
5	.468	21.04	Pk	0	9.8	30.84	56.55	-25.71	-	-
6	.489	14.39	Av	0	9.8	24.19	-	-	46.18	-21.99
7	.786	13.11	Pk	0	9.8	22.91	56	-33.09	-	-
8	.786	5.93	Av	0	9.8	15.73	-	-	46	-30.27
9	4.146	18.09	Pk	0	9.9	27.99	56	-28.01	-	-
10	4.185	3.2	Av	0	9.9	13.1	-	-	46	-32.9
11	15.999	26.81	Pk	.1	10.1	37.01	60	-22.99	-	-
12	15.972	15.47	Av	.1	10.1	25.67	-	-	50	-24.33

Pk - Peak detector
Av - Average detection

Conducted Emissions Graph – PC Peripheral Line 2



Conducted Emissions Data Points – PC Peripheral Line 2

Range 2: Line-L2 .15 - 30MHz										
Marker	**Frequency (MHz)**	**Meter Reading (dBuV)**	**Det**	**LISN VCF (dB)**	**Cbl/Limiter (dB)**	**Corrected Reading dBuV**	**QP Limit (dBuV)**	**Margin (dB)**	**Average Limit (dBuV)**	**Margin (dB)**
13	.156	40.85	Pk	.2	9.8	50.85	65.67	-14.82	-	-
14	.153	18.01	Av	.2	9.8	28.01	-	-	55.84	-27.83
15	.195	34.3	Pk	.2	9.8	44.3	63.82	-19.52	-	-
16	.222	14.86	Av	.1	9.8	24.76	-	-	52.74	-27.98
17	.435	22.92	Pk	0	9.8	32.72	57.16	-24.44	-	-
18	.441	13.36	Av	0	9.8	23.16	-	-	47.04	-23.88
19	.789	14.52	Pk	0	9.8	24.32	56	-31.68	-	-
20	.786	9.88	Av	0	9.8	19.68	-	-	46	-26.32
21	4.056	19.35	Pk	0	9.9	29.25	56	-26.75	-	-
22	4.077	3.18	Av	0	9.9	13.08	-	-	46	-32.92
23	15.981	29.02	Pk	.1	10.1	39.22	60	-20.78	-	-
24	15.939	17.3	Av	.1	10.1	27.5	-	-	50	-22.5

Pk - Peak detector
Av - Average detection

4.2 Test Conditions and Results - RADIATED EMISSIONS

Test Engineer	28100/11993, 85501/11993	
Test Date	2023-07-07 to 2023-07-17	
Laboratory Parameters	Required prior to the test	During the test
Ambient Temperature	10 to 40 °C	22.5 – 25.2°C
Humidity	10 % to 90 %	42.5 – 64.3%
	Frequency range	Measurement Point
Fully configured sample scanned over the following frequency range	30-40000MHz	3m

Limits - Class B		
Frequency (MHz)	Limit (dBµV/m)	
30-88	40	NA
88-216	43.5	NA
216-960	46	NA
Above 960	54	NA
	Peak	Average
Above 1 GHz	74	54
Supplementary information: None.		

Radiated Emissions EUT Configuration Settings

Power Interface #	EUT Configurations #	EUT Mode of Operation#
1,2,3	1	1,2,3,4
Supplementary information**:** All testing done with EUT SN: QV7700CTHT, QV7700GUHT		

Refer to R14777408-EP1 for block diagram and setup photos.

Radiated Emissions Test Equipment

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 4)

Equipment ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
30-1000 MHz					
90629	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2023-01-06	2024-01-06
1-18 GHz					
89509	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2023-05-23	2025-05-23
18-40 GHz					
204704	Horn Antenna, 18-26.5GHz	Com-Power	AH-626	2022-07-11	2023-07-11
204705	Horn Antenna, 26-40GHz	Com-Power	AH-640	2022-07-11	2023-07-11
Gain-Loss Chains					
207639	Gain-loss string: 25-1000MHz	Various	Various	2023-05-17	2024-05-17
207640	Gain-loss string: 1-18GHz	Various	Various	2023-05-17	2024-05-17
225795	Gain-loss string: 18-40GHz	Various	Various	2023-05-17	2024-05-17
Receiver & Software					
197955	Spectrum Analyzer	Rohde & Schwarz	ESW44	2023-04-10	2024-04-10
81018	Spectrum Analyzer	Agilent	E4446A	2022-08-02	2023-08-02
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
Additional Equipment used					
21642	Environmental Meter	Fisher Scientific	15-077-963 (s/n 210701692)	2021-08-16	2023-08-16

Note: All equipment within calibration at time of use.

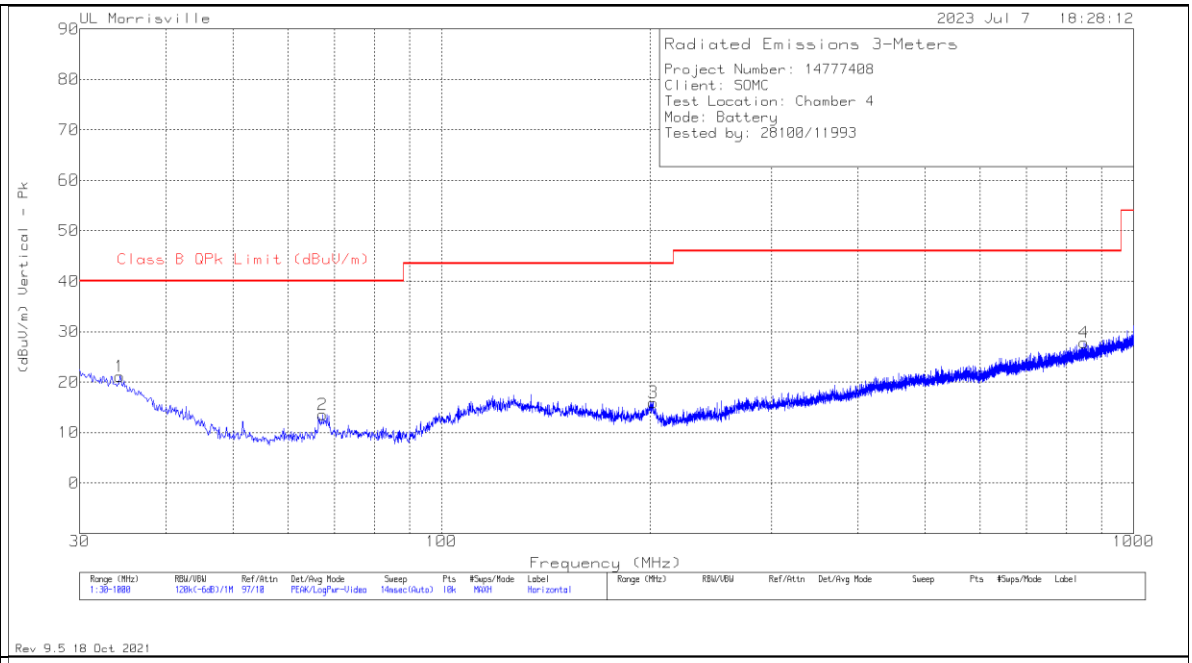
Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 2)

Equipment ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
18-40 GHz					
78835	Horn Antenna, 18-26.5GHz	ARA	MWH-1826/B	2022-12-15	2023-12-15
77783	Horn Antenna, 26-40GHz	ARA	MWH-2640/B	2022-12-15	2023-12-15
Gain-Loss Chains					
136042	Gain-loss string: 18-40GHz	Various	Various	2023-06-06	2024-06-06
Receiver & Software					
81018	Spectrum Analyzer	Agilent	E4446A	2022-08-02	2023-08-02
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
Additional Equipment used					
200540	Environmental Meter	Fisher Scientific	15-077-963	2022-10-05	2023-10-05

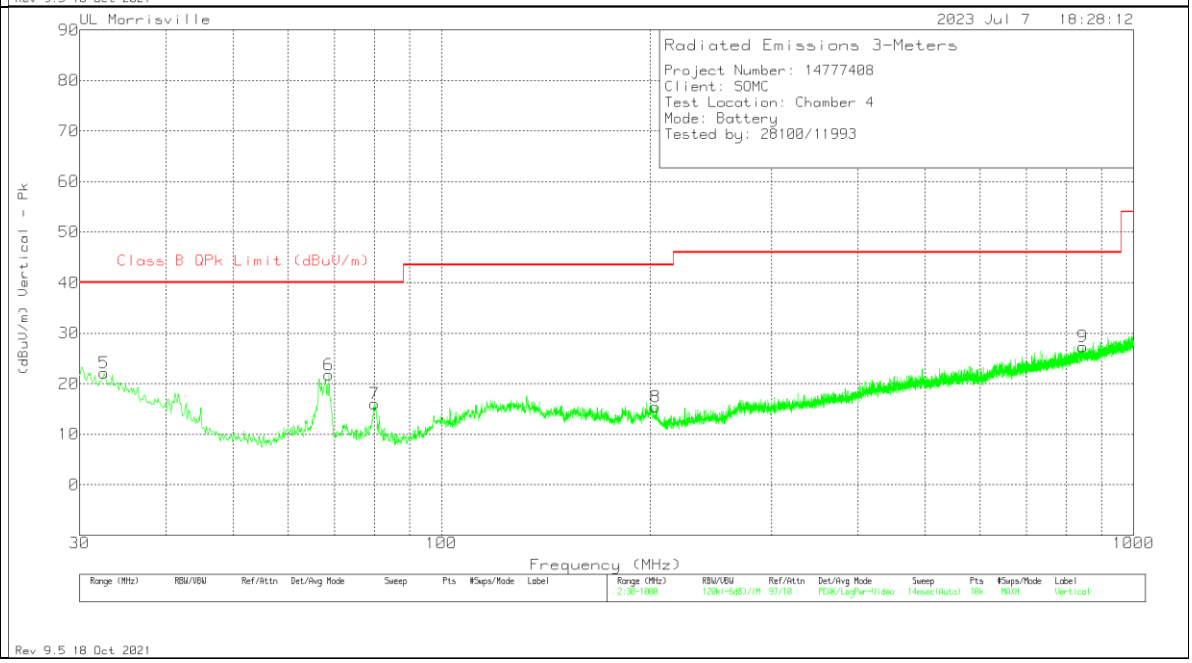
RADIATED EMISSIONS 30 TO 1000 MHz - Battery

Radiated Emissions Graph

HORIZONTAL



VERTICAL



Radiated Emissions Data Points

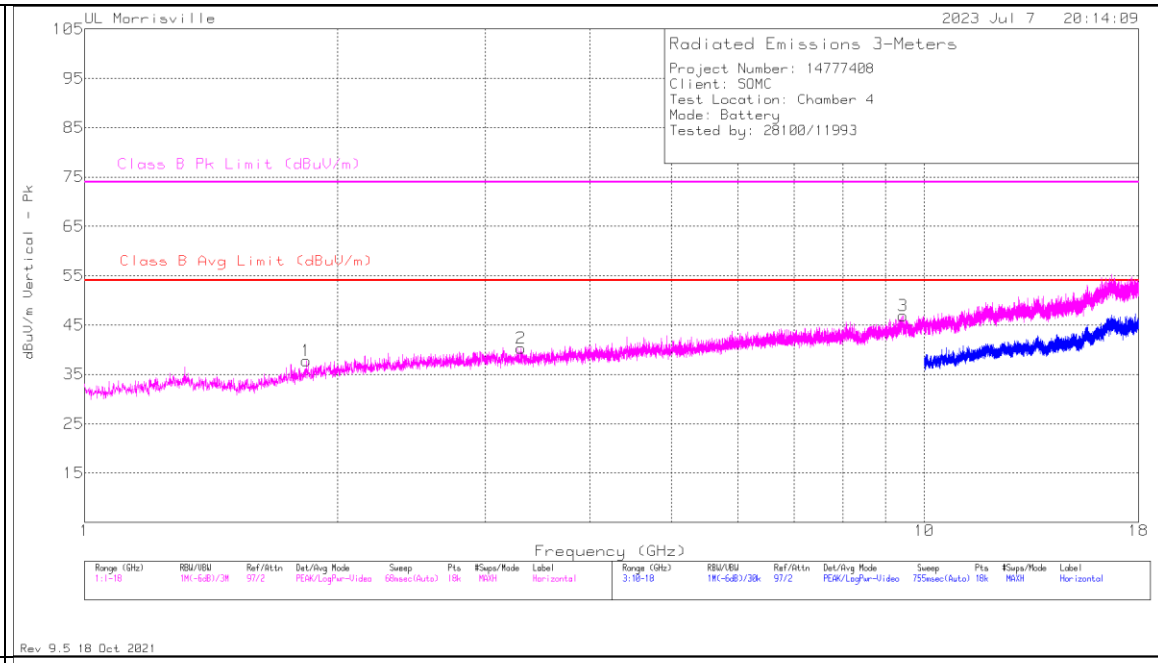
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90629 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	32.522	28.55	Pk	25.3	-31.7	22.15	40	-17.85	0-360	200	V
1	34.268	28.8	Pk	24	-31.7	21.1	40	-18.9	0-360	100	H
2	67.345	30.22	Pk	14.3	-31	13.52	40	-26.48	0-360	100	H
6	68.8	38.5	Pk	14.3	-31.1	21.7	40	-18.3	0-360	100	V
7	79.955	32.55	Pk	14.5	-31	16.05	40	-23.95	0-360	200	V
3	202.078	26.97	Pk	18.8	-29.8	15.97	43.52	-27.55	0-360	100	H
8	203.921	27.16	Pk	17.9	-29.6	15.46	43.52	-28.06	0-360	100	V
9	844.8	25.43	Pk	27.9	-26	27.33	46.02	-18.69	0-360	100	V
4	847.807	25.71	Pk	27.9	-25.8	27.81	46.02	-18.21	0-360	100	H

Pk - Peak detector

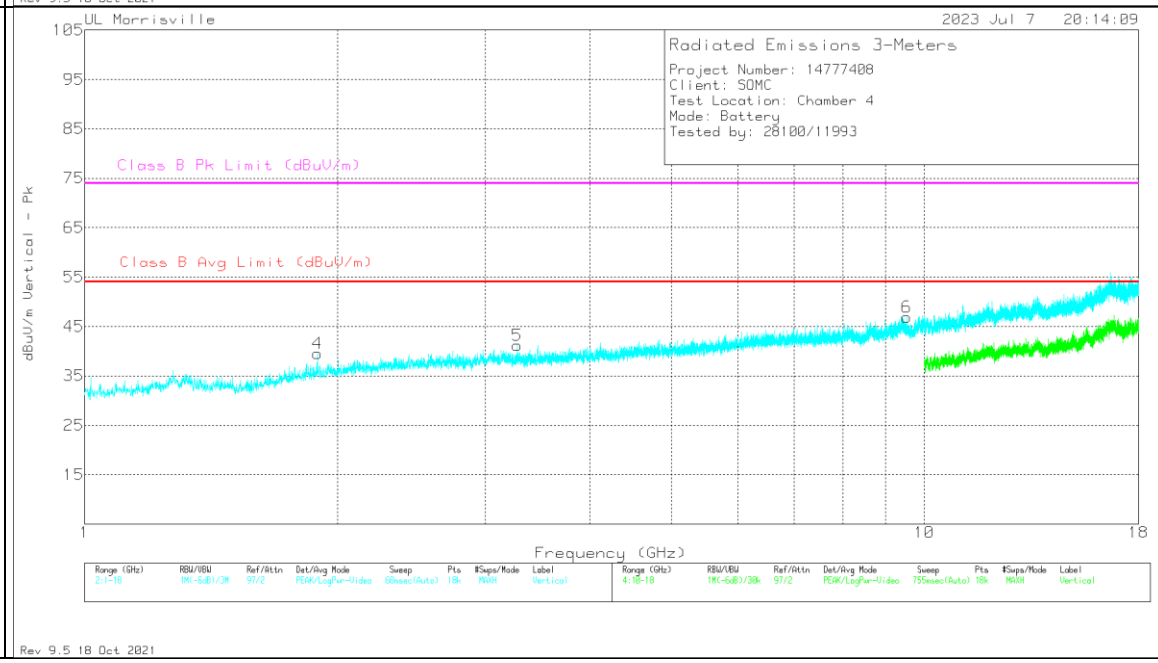
RADIATED EMISSIONS 1000 TO 18,000 MHz – Battery

Radiated Emissions Graph

HORIZONTAL



VERTICAL



Radiated Emissions Data Points

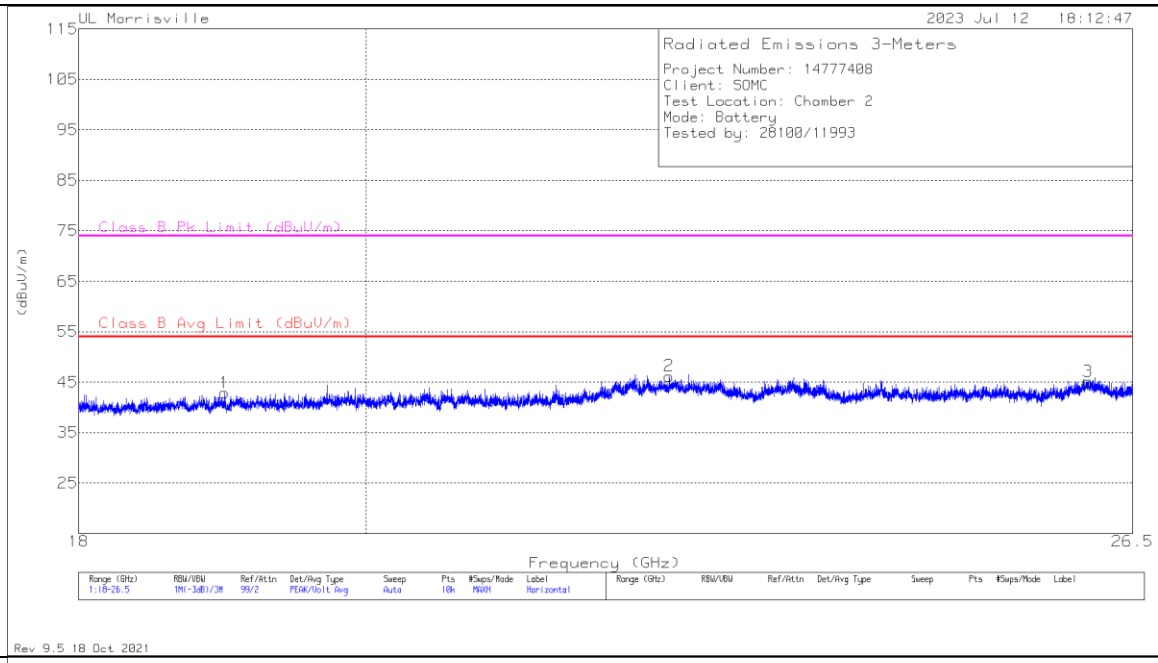
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.83678	43.35	Pk	30.4	-36	37.75	54	-16.25	74	-36.25	0-360	100	H
4	1.8925	44.99	Pk	30.7	-36.2	39.49	54	-14.51	74	-34.51	0-360	200	V
5	3.27611	42.95	Pk	32.9	-34.7	41.15	54	-12.85	74	-32.85	0-360	200	V
2	3.30728	42.16	Pk	33	-34.9	40.26	54	-13.74	74	-33.74	0-360	100	H
3	9.44238	36.05	Pk	36.7	-25.8	46.95	54	-7.05	74	-27.05	0-360	100	H
6	9.53588	35.92	Pk	36.7	-25.7	46.92	54	-7.08	74	-27.08	0-360	200	V

Pk - Peak detector

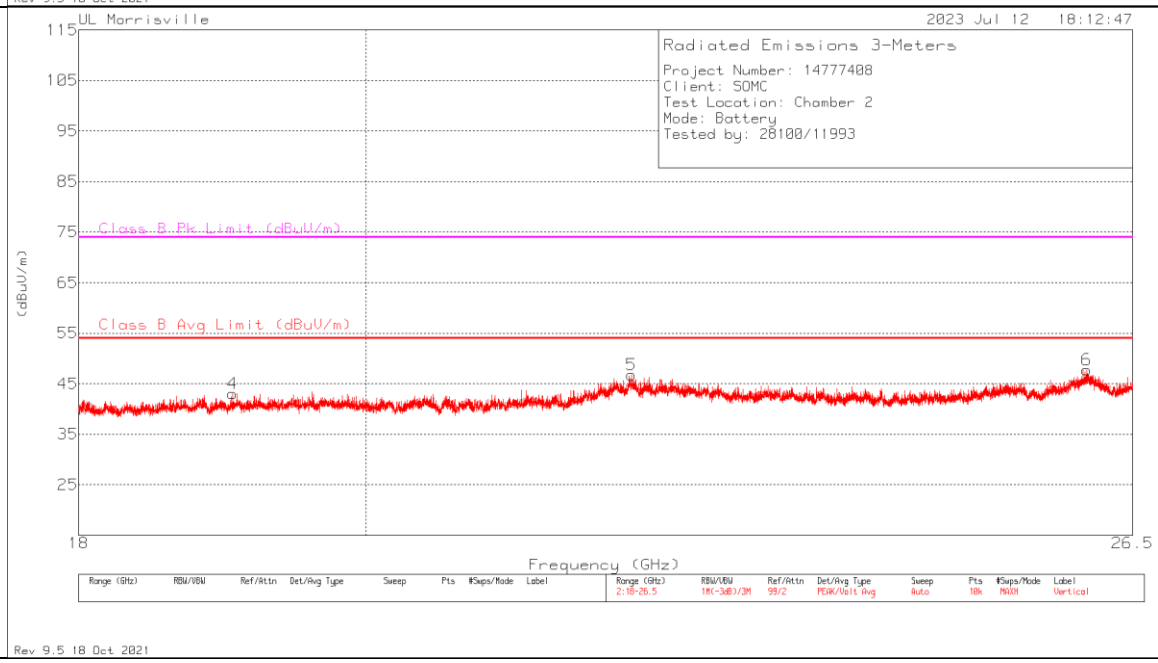
RADIATED EMISSIONS 18,000 TO 26,000 MHz – Battery

Radiated Emissions Graph

HORIZONTAL



VERTICAL



Radiated Emissions Data Points

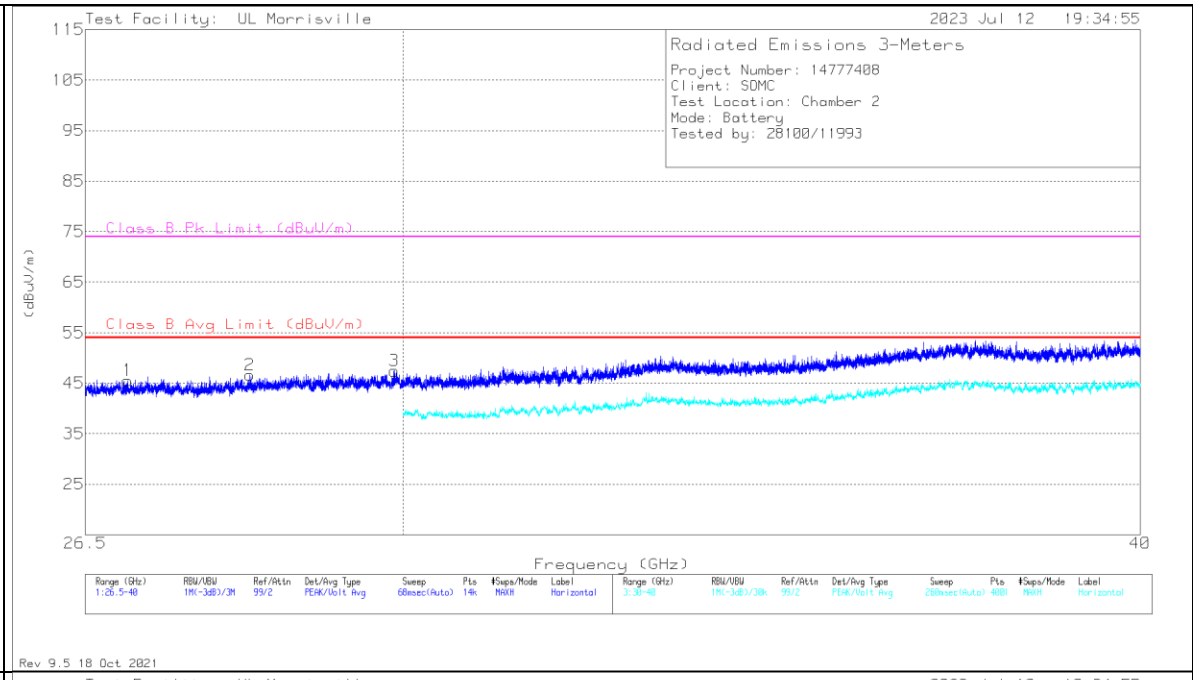
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	78835 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	18.98845	48.26	Pk	32.9	-38.3	42.86	54	-11.14	74	-31.14	0-360	250	H
4	19.04795	48.4	Pk	33	-38.4	43	54	-11	74	-31	0-360	200	V
5	22.049	48.18	Pk	36.5	-37.9	46.78	54	-7.22	74	-27.22	0-360	300	V
2	22.35496	48.29	Pk	35.9	-38	46.19	54	-7.81	74	-27.81	0-360	300	H
6	26.05889	48.97	Pk	34.7	-35.9	47.77	54	-6.23	74	-26.23	0-360	151	V
3	26.06824	46.26	Pk	34.7	-35.8	45.16	54	-8.84	74	-28.84	0-360	300	H

Pk - Peak detector

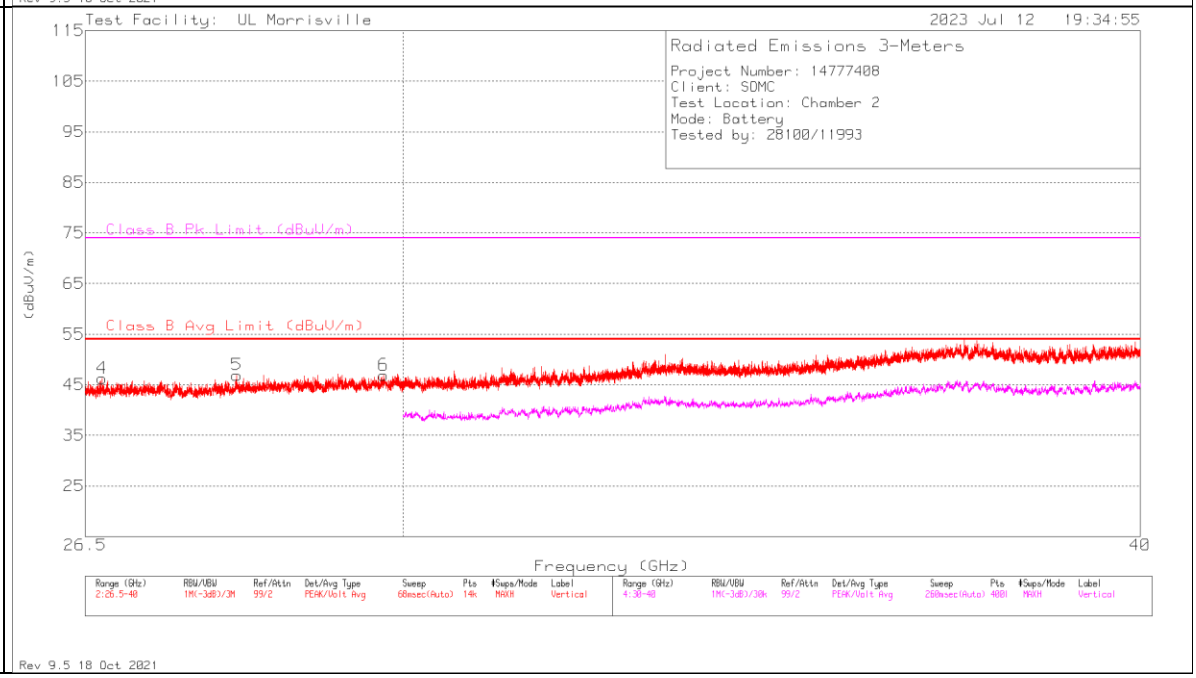
RADIATED EMISSIONS 26,000 TO 40,000 MHz – Battery

Radiated Emissions Graph

HORIZONTAL



VERTICAL



Radiated Emissions Data Points

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	77783 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	26.67259	46.28	Pk	35.9	-35.9	46.28	54	-7.72	74	-27.72	0-360	151	V
1	26.94161	45.53	Pk	36	-36	45.53	54	-8.47	74	-28.47	0-360	199	H
5	28.11506	45.32	Pk	36.2	-34.6	46.92	54	-7.08	74	-27.08	0-360	151	V
2	28.25584	45.12	Pk	36.3	-34.8	46.62	54	-7.38	74	-27.38	0-360	199	H
6	29.77448	44.21	Pk	36.5	-33.8	46.91	54	-7.09	74	-27.09	0-360	300	V
3	29.89597	44.55	Pk	36.6	-33.7	47.45	54	-6.55	74	-26.55	0-360	300	H

Pk - Peak detector

RADIATED EMISSIONS 30 TO 1000 MHz – AC Adaptor

This mode is covered by the 30 to 1000MHz LTE B13 Rx 751MHz scan

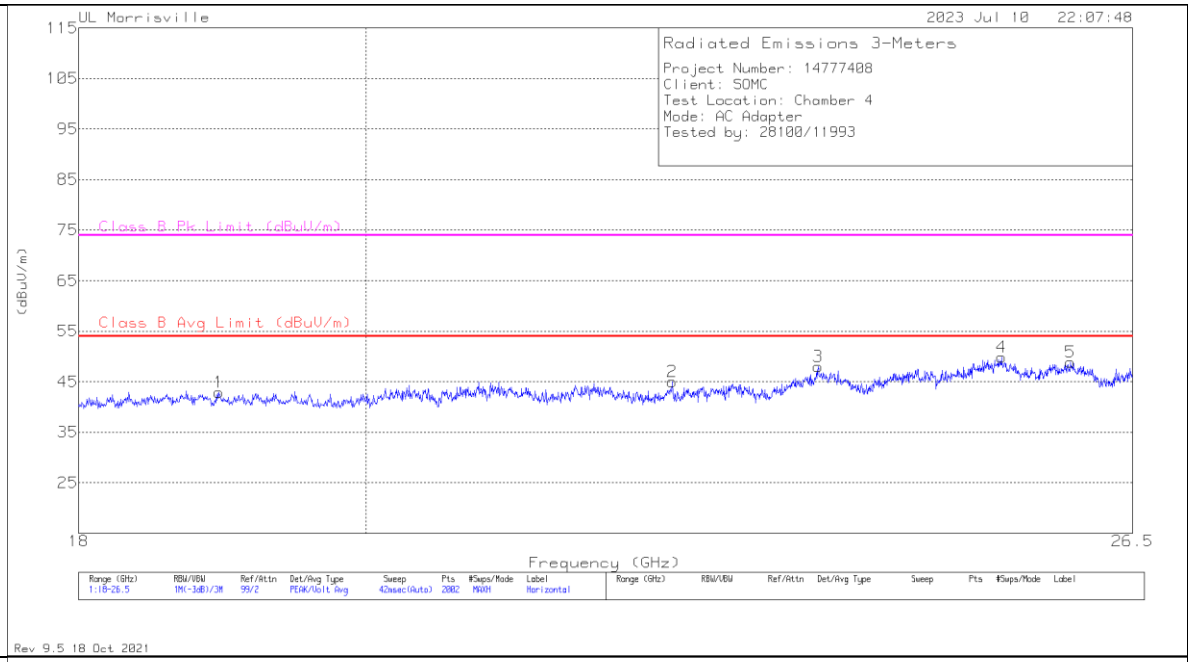
RADIATED EMISSIONS 1000 TO 18,000 MHz – AC Adaptor

This mode is covered by the 1000 to 18,000MHz LTE B13 Rx 751MHz scan

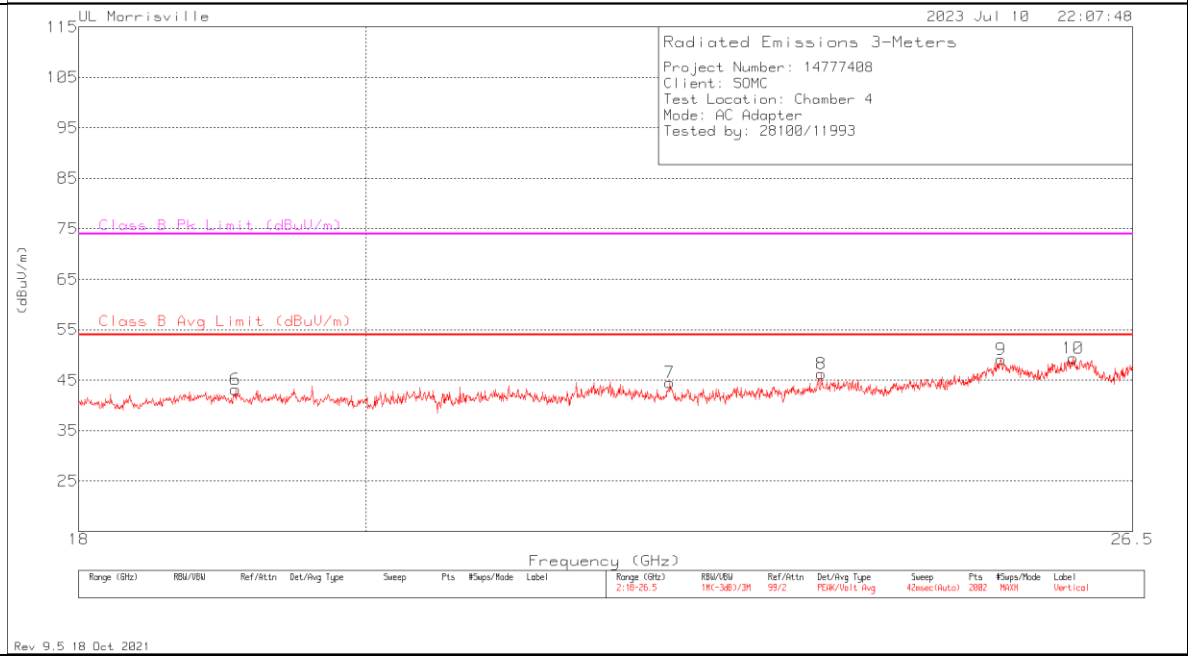
RADIATED EMISSIONS 18,000 TO 26,000 MHz – AC Adaptor

Radiated Emissions Graph

HORIZONTAL



VERTICAL



Radiated Emissions Data Points

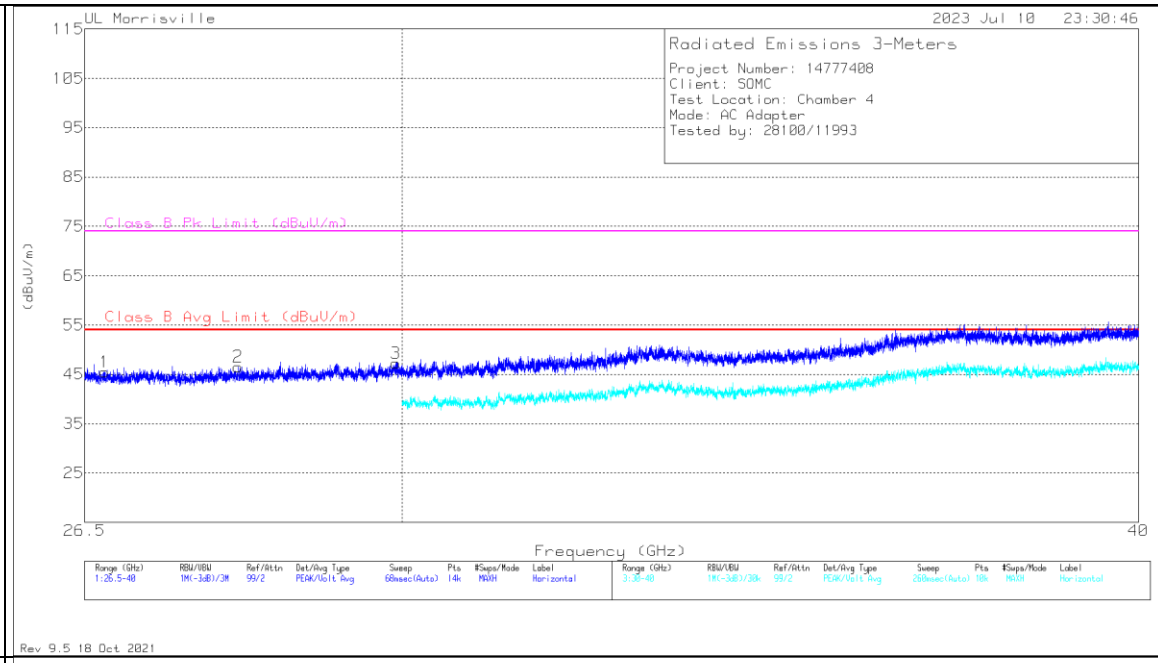
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	204704 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	18.95152	49.03	Pk	33.8	-39.9	42.93	54	-11.07	74	-31.07	0-360	100	H
6	19.06622	49.14	Pk	33.8	-39.8	43.14	54	-10.86	74	-30.86	0-360	150	V
7	22.36257	48.37	Pk	34.5	-38.4	44.47	54	-9.53	74	-29.53	0-360	150	V
2	22.37956	48.46	Pk	34.5	-38	44.96	54	-9.04	74	-29.04	0-360	100	H
3	23.61144	48.84	Pk	35.2	-36.1	47.94	54	-6.06	74	-26.06	0-360	100	H
8	23.64118	47.98	Pk	35.2	-36.9	46.28	54	-7.72	74	-27.72	0-360	150	V
9	25.2555	42.08	Pk	36.1	-34.1	44.08	-	-	74	-29.92	0	303	V
	25.25381	38.99	Av	36.1	-34	41.09	54	-12.91	-	-	0	303	V
4	25.25681	44.24	Pk	36.1	-34.4	45.94	-	-	74	-28.06	338	385	H
	25.25325	39.65	Av	36.1	-34.1	41.65	54	-12.35	-	-	338	385	H
5	25.90715	39.23	Av	35.9	-34	41.13	54	-12.87	-	-	191	397	H
	25.90855	41.35	Pk	35.9	-33.9	43.35	-	-	74	-30.65	191	397	H
10	25.9303	41.4	Pk	35.9	-33.9	43.4	-	-	74	-30.6	179	123	V
	25.93047	37.63	Av	35.9	-33.8	39.73	54	-14.27	-	-	179	123	V

Pk - Peak detector

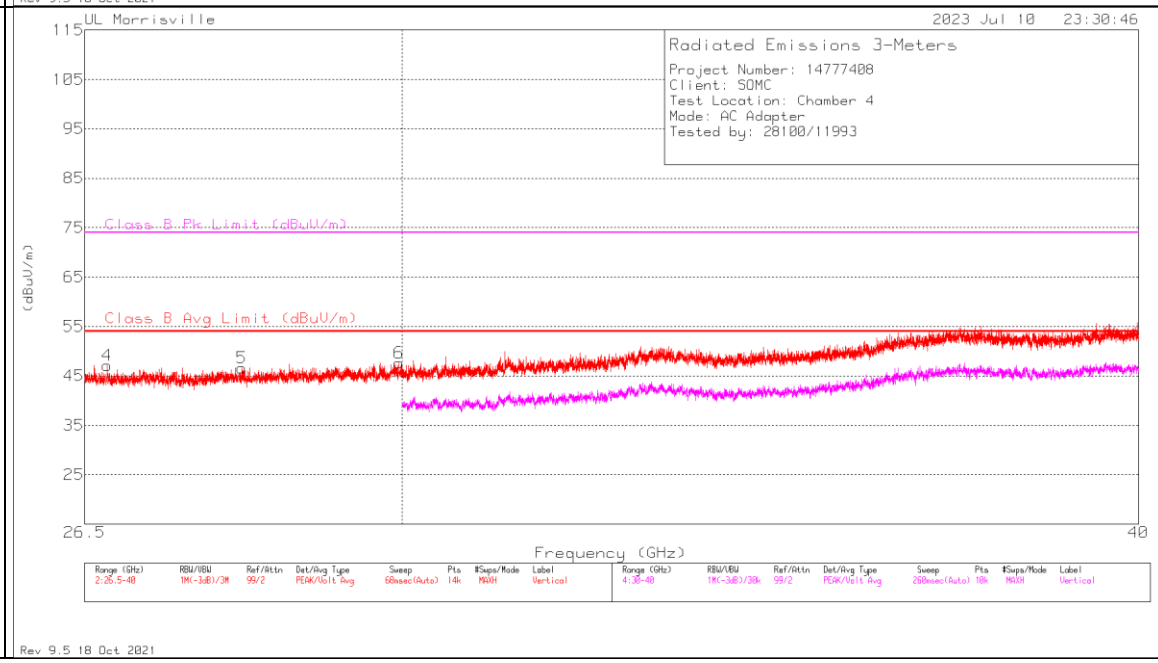
RADIATED EMISSIONS 26,000 TO 40,000 MHz – AC Adaptor

Radiated Emissions Graph

HORIZONTAL



VERTICAL



Radiated Emissions Data Points

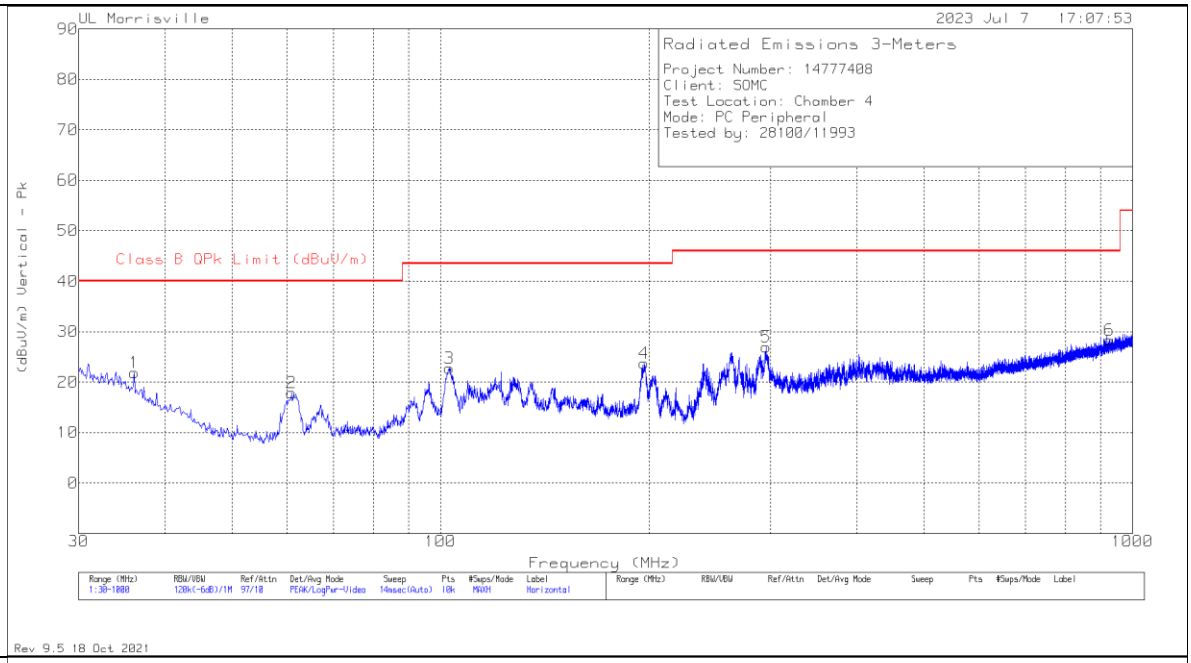
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	204705 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	26.7102	43.08	Pk	36.2	-33.8	45.48	54	-8.52	74	-28.52	0-360	200	H
4	26.7343	43.89	Pk	36.2	-33	47.09	54	-6.91	74	-26.91	0-360	150	V
2	28.13724	42.35	Pk	36.6	-32.4	46.55	54	-7.45	74	-27.45	0-360	100	H
5	28.17677	42.84	Pk	36.6	-32.8	46.64	54	-7.36	74	-27.36	0-360	250	V
3	29.92297	42.1	Pk	36.8	-31.6	47.3	54	-6.7	74	-26.7	0-360	100	H
6	29.95961	42.42	Pk	36.8	-31.6	47.62	54	-6.38	74	-26.38	0-360	250	V

Pk - Peak detector

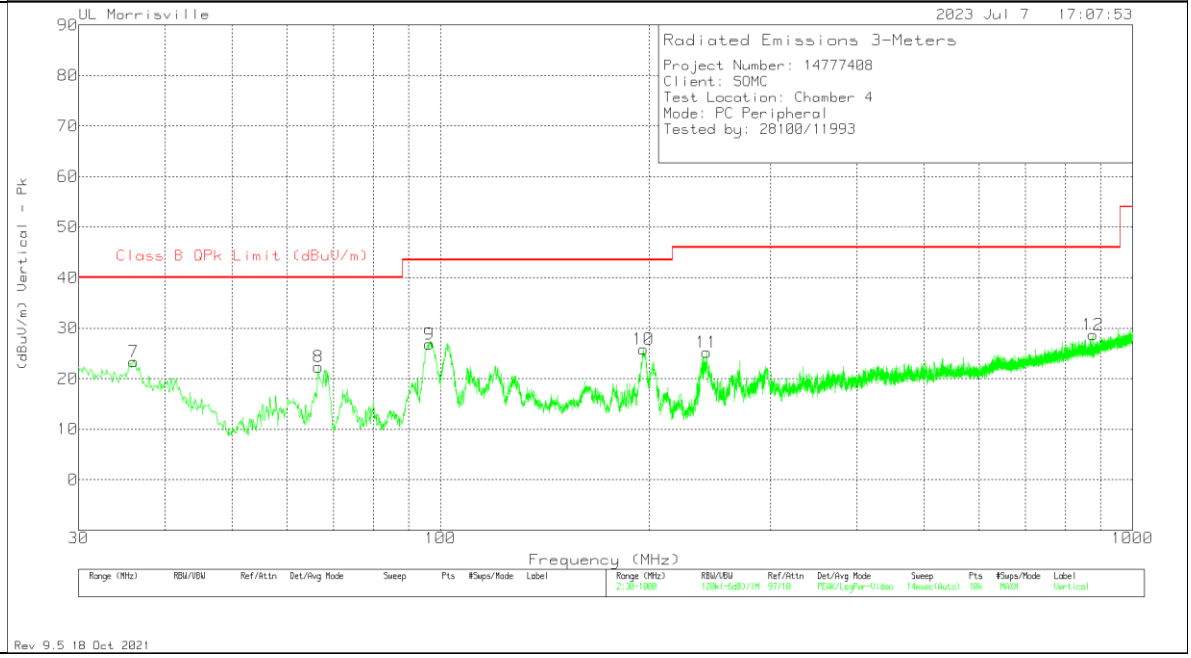
RADIATED EMISSIONS 30 TO 1000 MHz – PC Peripheral

Radiated Emissions Graph

HORIZONTAL



VERTICAL



Radiated Emissions Data Points

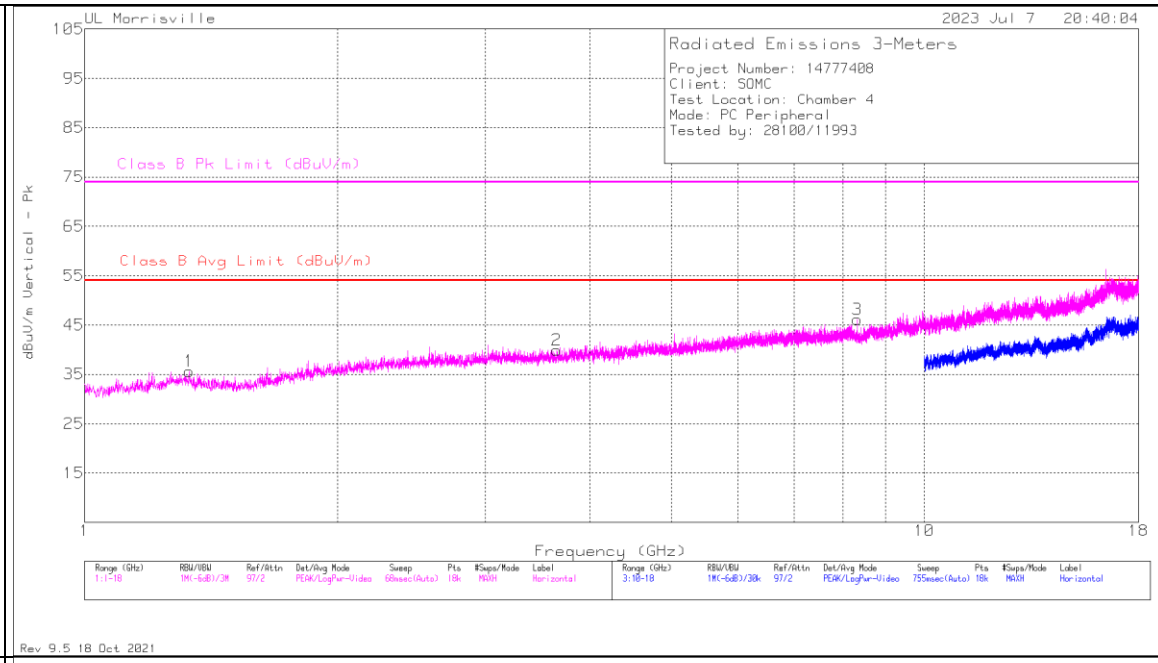
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90629 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7	36.014	31.94	Pk	22.8	-31.4	23.34	40	-16.66	0-360	100	V
1	36.111	30.52	Pk	22.7	-31.4	21.82	40	-18.18	0-360	200	H
2	60.943	35.45	Pk	13.8	-31.3	17.95	40	-22.05	0-360	300	H
8	66.569	39.21	Pk	14.3	-31.2	22.31	40	-17.69	0-360	100	V
9	96.348	41.48	Pk	16.2	-30.8	26.88	43.52	-16.64	0-360	100	V
3	102.944	36.4	Pk	17.1	-30.8	22.7	43.52	-20.82	0-360	200	H
10	196.452	37.29	Pk	18.2	-29.7	25.79	43.52	-17.73	0-360	100	V
4	197.034	35.08	Pk	18.3	-29.7	23.68	43.52	-19.84	0-360	100	H
11	242.333	36.98	Pk	17.7	-29.4	25.28	46.02	-20.74	0-360	100	V
5	295.489	36.48	Pk	19.4	-28.9	26.98	46.02	-19.04	0-360	100	H
12	876.228	26.09	Pk	28	-25.4	28.69	46.02	-17.33	0-360	200	V
6	924.922	24.78	Pk	28.6	-25	28.38	46.02	-17.64	0-360	100	H

Pk - Peak detector

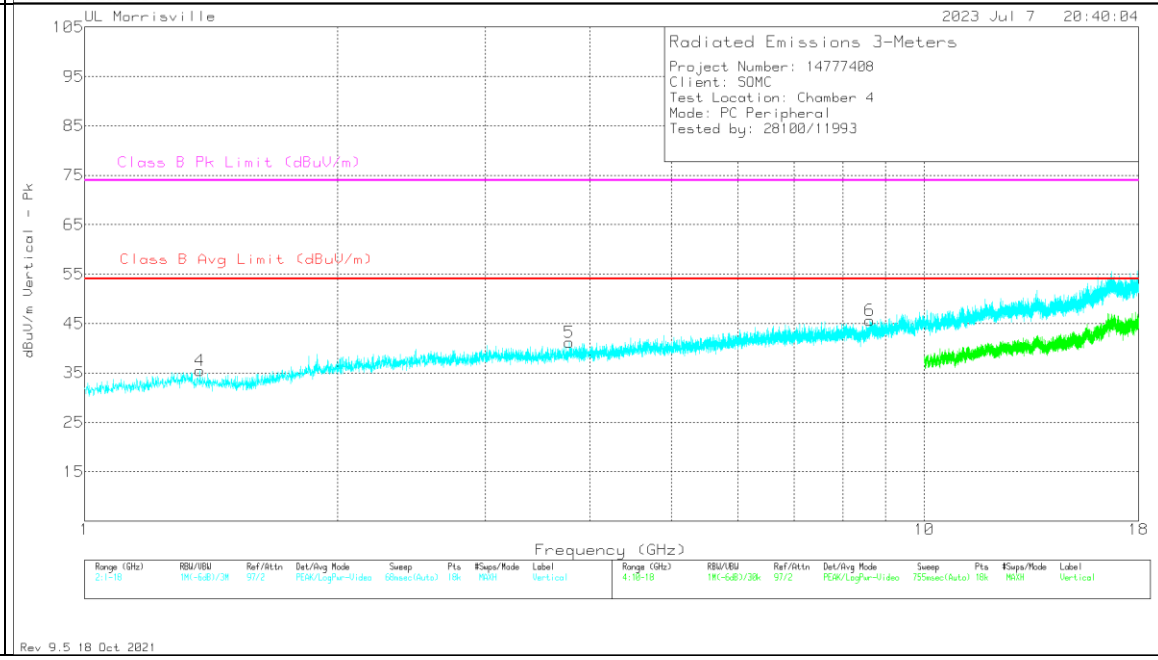
RADIATED EMISSIONS 1000 TO 18,000 MHz – PC Peripheral

Radiated Emissions Graph

HORIZONTAL



VERTICAL



Radiated Emissions Data Points

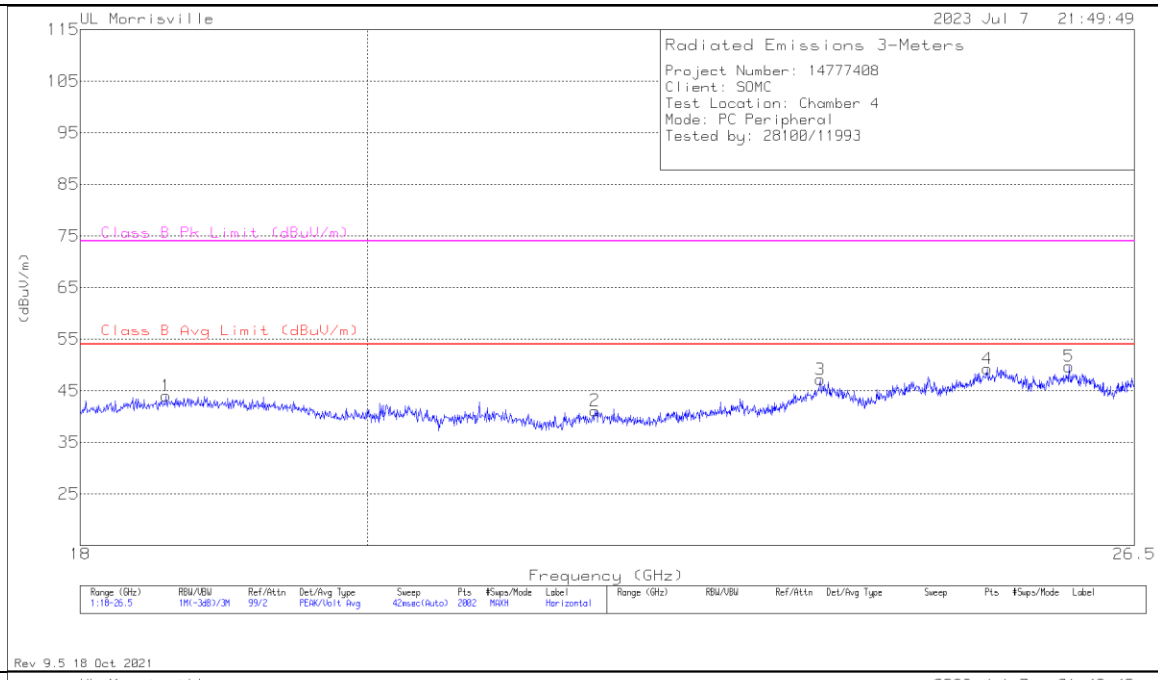
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.3315	42.56	Pk	29	-35.9	35.66	54	-18.34	74	-38.34	0-360	100	H
4	1.37211	42.96	Pk	28.5	-36	35.46	54	-18.54	74	-38.54	0-360	200	V
2	3.65294	41.06	Pk	33	-34.1	39.96	54	-14.04	74	-34.04	0-360	100	H
5	3.77855	41.84	Pk	33.2	-33.8	41.24	54	-12.76	74	-32.76	0-360	200	V
3	8.32605	37.65	Pk	35.8	-27.3	46.15	54	-7.85	74	-27.85	0-360	100	H
6	8.61033	36.28	Pk	35.8	-26.4	45.68	54	-8.32	74	-28.32	0-360	200	V

Pk - Peak detector

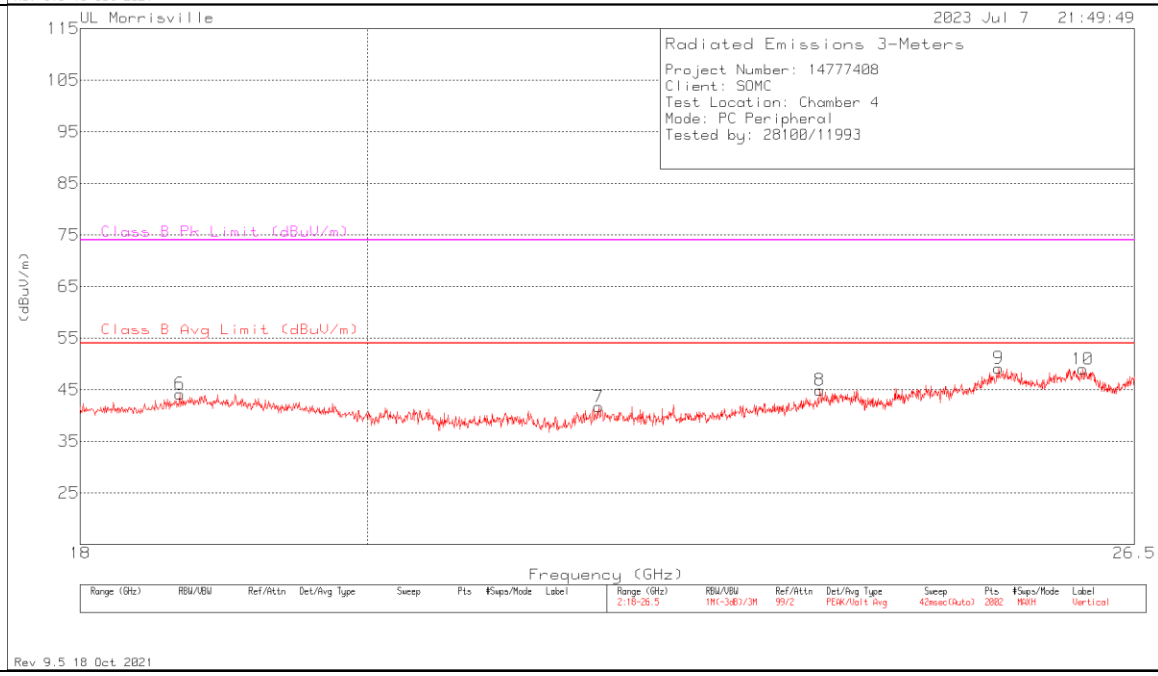
RADIATED EMISSIONS 18,000 TO 26,000 MHz – PC Peripheral

Radiated Emissions Graph

HORIZONTAL



VERTICAL



Radiated Emissions Data Points

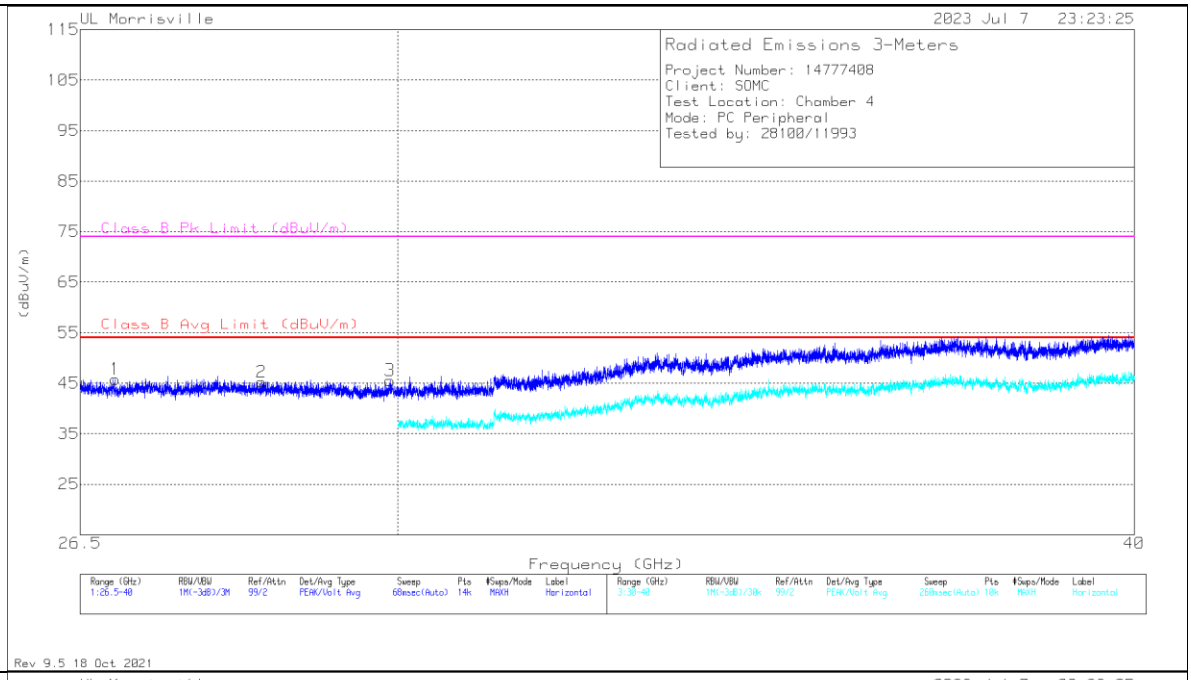
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	204704 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	18.57771	50.43	Pk	33.3	-39.7	44.03	54	-9.97	74	-29.97	0-360	100	H
6	18.67116	50.59	Pk	33.4	-39.8	44.19	54	-9.81	74	-29.81	0-360	300	V
2	21.74238	45.73	Pk	34.4	-39	41.13	54	-12.87	74	-32.87	0-360	250	H
7	21.77211	46.09	Pk	34.5	-38.9	41.69	54	-12.31	74	-32.31	0-360	300	V
8	23.61144	45.81	Pk	35.2	-36.1	44.91	54	-9.09	74	-29.09	0-360	300	V
3	23.61569	48.19	Pk	35.2	-36.2	47.19	54	-6.81	74	-26.81	0-360	100	H
4	25.10219	39.22	Av	35.7	-35	39.92	54	-14.08	-	-	208	350	H
	25.11168	41.96	Pk	35.8	-36.1	41.66	-	-	74	-32.34	208	350	H
9	25.2151	38.59	Av	36.1	-34.8	39.89	54	-14.11	-	-	261	108	V
	25.2164	42.1	Pk	36.1	-34.8	43.4	-	-	74	-30.6	261	108	V
5	25.87268	38.58	Av	35.9	-33.8	40.68	54	-13.32	-	-	0	256	H
	25.87305	41.29	Pk	35.9	-33.8	43.39	-	-	74	-30.61	0	256	H
10	25.99833	37.39	Av	35.9	-34.4	38.89	54	-15.11	-	-	345	118	V
	26.00126	45.71	Pk	35.9	-34.1	47.51	-	-	74	-26.49	345	118	V

Pk - Peak detector

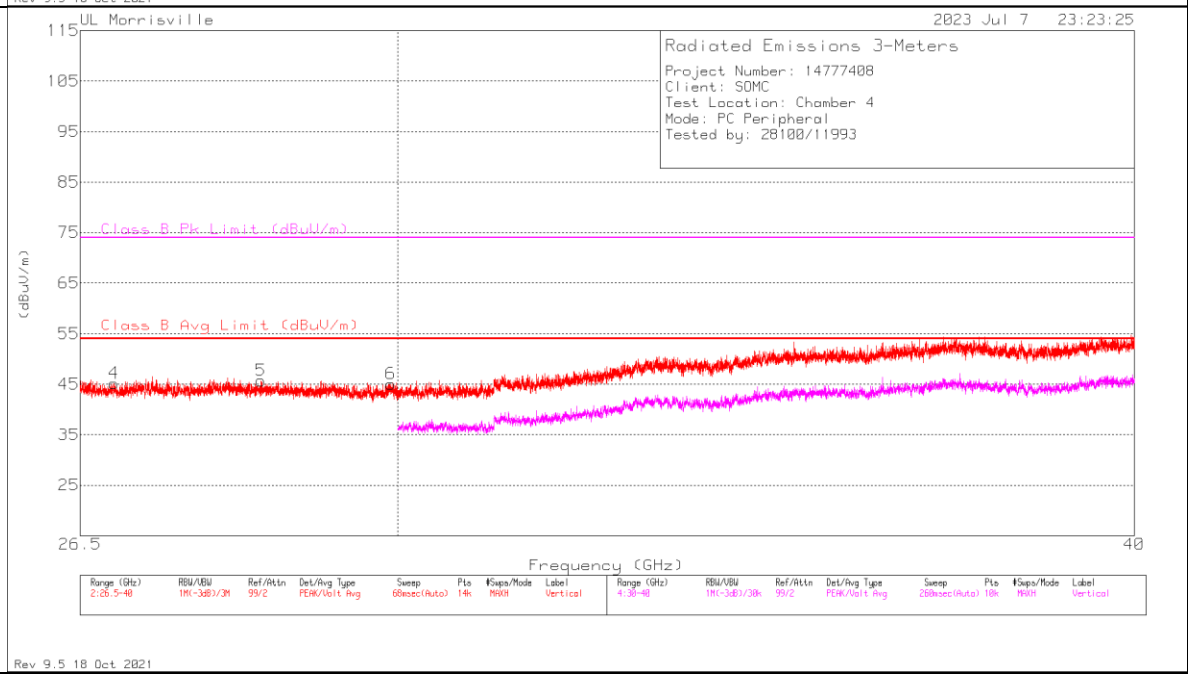
RADIATED EMISSIONS 26,000 TO 40,000 MHz – PC Peripheral

Radiated Emissions Graph

HORIZONTAL



VERTICAL



Radiated Emissions Data Points

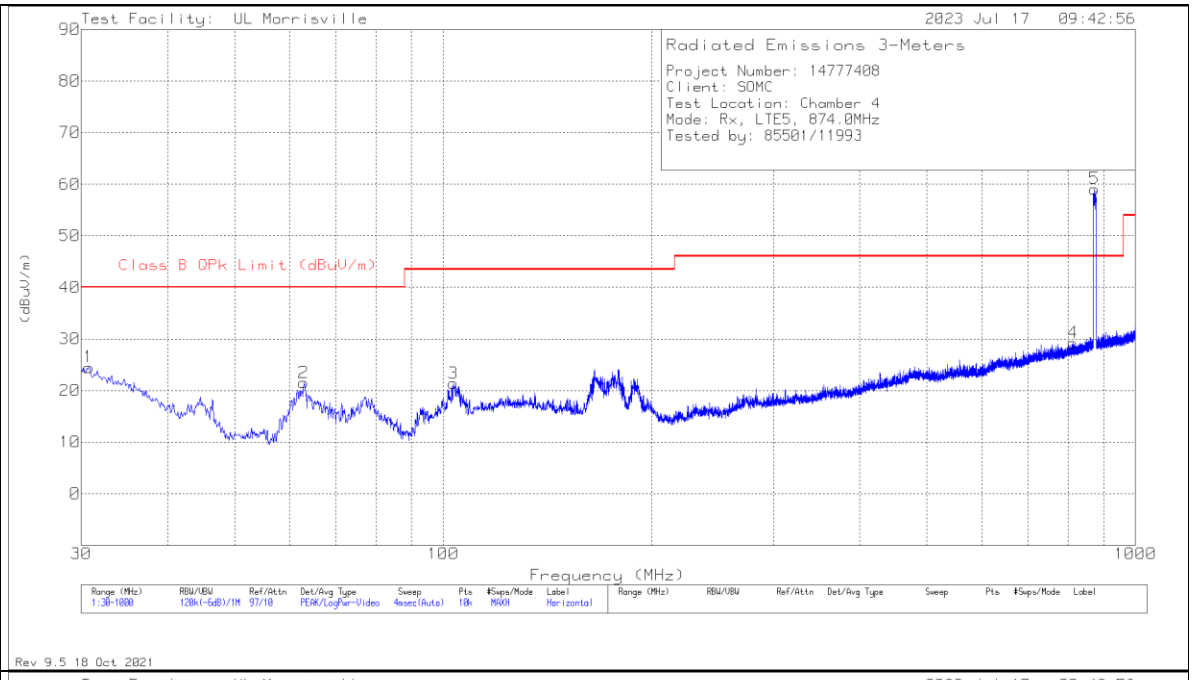
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	204705 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	26.85194	42.56	Pk	36.2	-33.6	45.16	54	-8.84	74	-28.84	0-360	200	V
1	26.86544	43.59	Pk	36.1	-33.9	45.79	54	-8.21	74	-28.21	0-360	100	H
5	28.44	41.79	Pk	36.5	-32.6	45.69	54	-8.31	74	-28.31	0-360	150	V
2	28.4429	40.95	Pk	36.5	-32.2	45.25	54	-8.75	74	-28.75	0-360	100	H
3	29.90851	40.11	Pk	36.8	-31.4	45.51	54	-8.49	74	-28.49	0-360	100	H
6	29.91911	39.96	Pk	36.8	-31.7	45.06	54	-8.94	74	-28.94	0-360	200	V

Pk - Peak detector

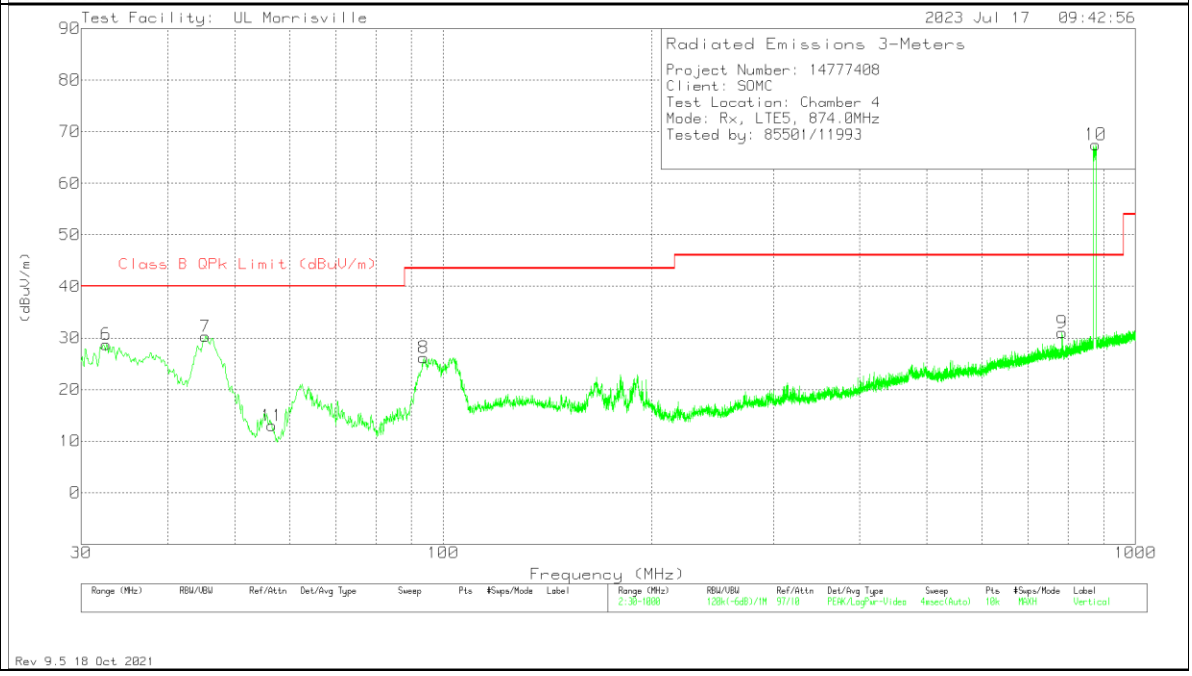
RADIATED EMISSIONS 30 TO 1000 MHz – LTE B5 Rx 874.0MHz

Radiated Emissions Graph

HORIZONTAL



VERTICAL



Radiated Emissions Data Points

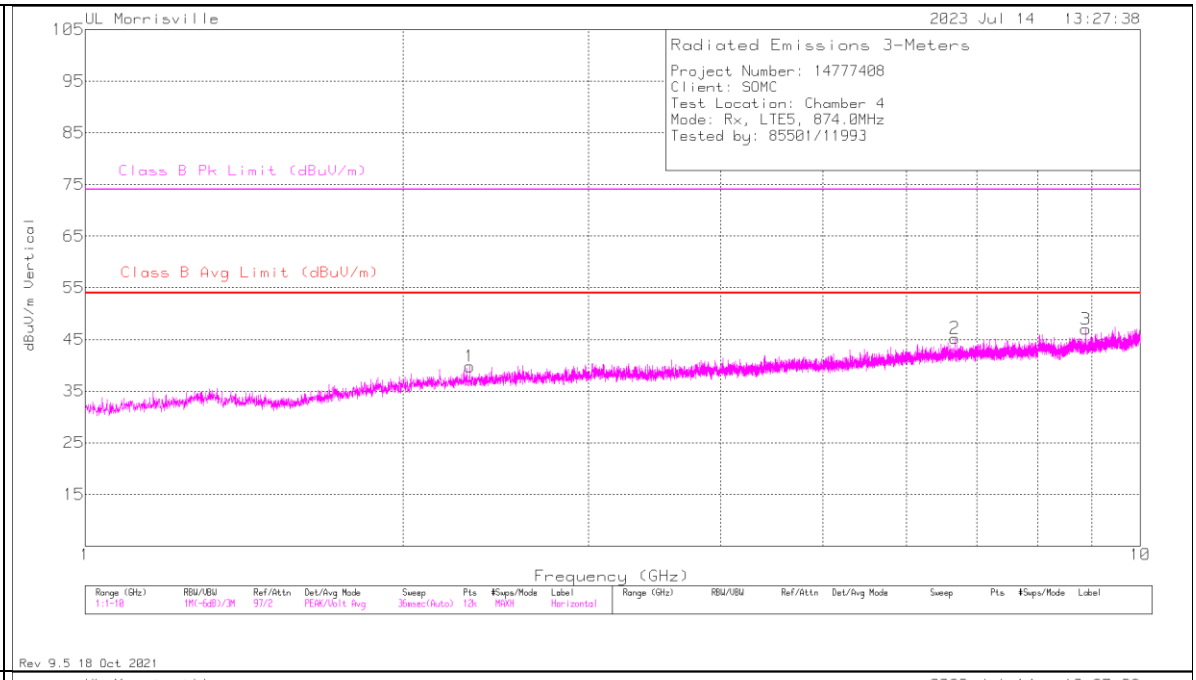
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90627 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.776	29.51	Pk	26.7	-31.7	24.51	40	-15.49	0-360	99	H
6	32.619	34.96	Pk	25.4	-31.6	28.76	40	-11.24	0-360	99	V
7	45.326	45.7	Pk	16.2	-31.6	30.3	40	-9.7	0-360	99	V
11	56.578	30.8	Pk	13.5	-31.3	13	40	-27	0-360	99	V
2	62.883	38.72	Pk	14.1	-31.3	21.52	40	-18.48	0-360	401	H
8	93.729	42.38	Pk	14.8	-31	26.18	43.52	-17.34	0-360	99	V
3	103.526	34.81	Pk	17.5	-30.9	21.41	43.52	-22.11	0-360	300	H
9	783.787	31.66	Pk	26.7	-27.3	31.06	46.02	-14.96	0-360	300	V
4	813.469	29.03	Pk	27.3	-27.1	29.23	46.02	-16.79	0-360	201	H
5	872.348 (DL)	57.9	Pk	27.8	-26.6	-	-	-	0-360	201	H
10	876.81 (DL)	66.08	Pk	27.8	-26.4	-	-	-	0-360	99	V

Pk - Peak detector
DL – Callbox downlink frequencies

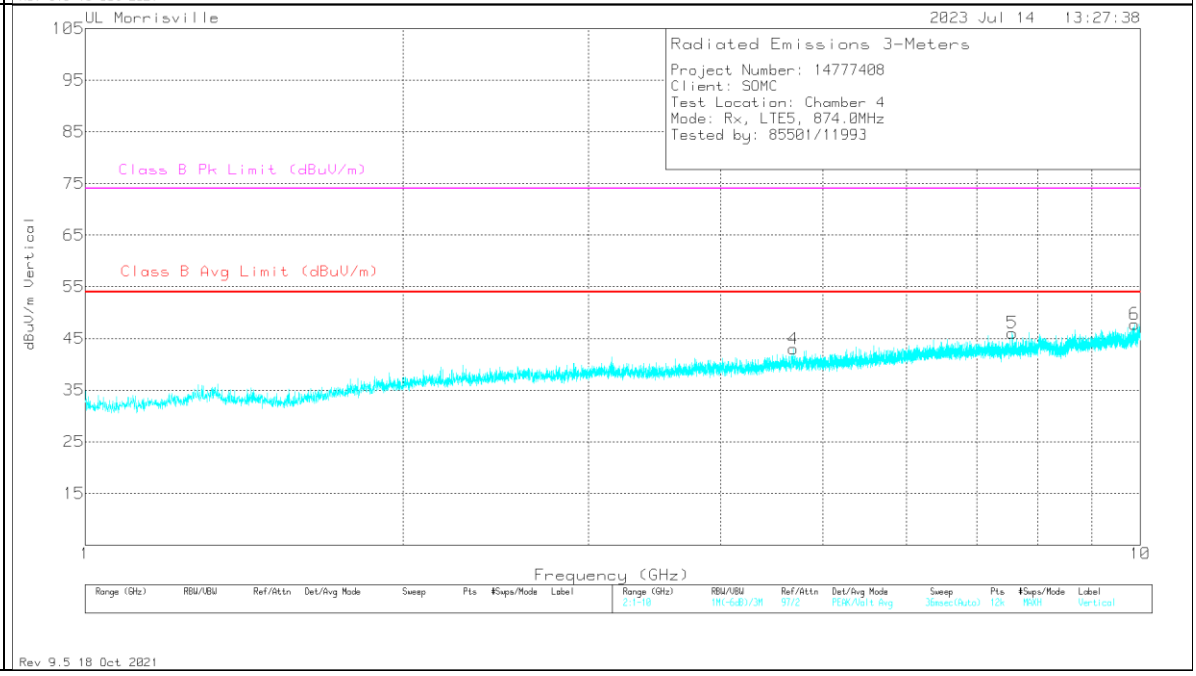
RADIATED EMISSIONS 1000 TO 10,000 MHz – LTE B5 Rx 874.0MHz

Radiated Emissions Graph

HORIZONTAL



VERTICAL



Radiated Emissions Data Points

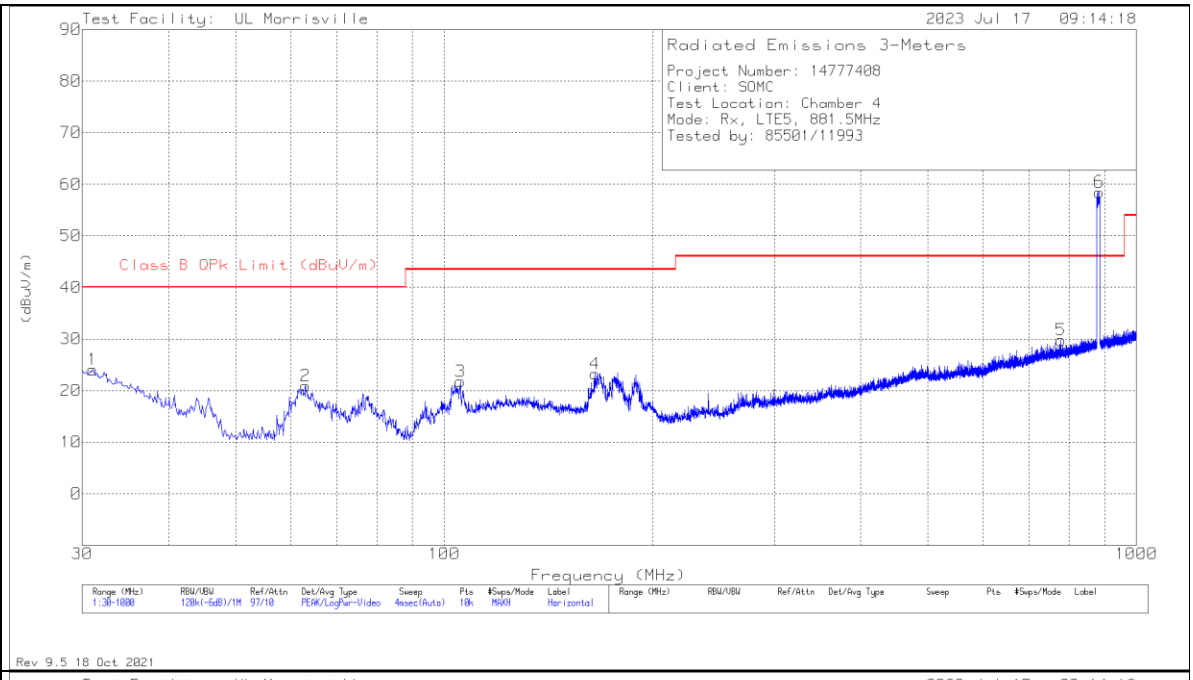
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.31325	43.98	Pk	32	-36.2	39.78	54	-14.22	74	-34.22	0-360	100	H
4	4.69075	41.08	Pk	34.1	-32.2	42.98	54	-11.02	74	-31.02	0-360	200	V
2	6.67225	37.99	Pk	35.5	-28.3	45.19	54	-8.81	74	-28.81	0-360	100	H
5	7.5625	38.58	Pk	35.7	-28.2	46.08	54	-7.92	74	-27.92	0-360	200	V
3	8.87875	36.99	Pk	36.2	-26.2	46.99	54	-7.01	74	-27.01	0-360	100	H
6	9.874	37.36	Pk	36.9	-26.5	47.76	54	-6.24	74	-26.24	0-360	200	V

Pk - Peak detector

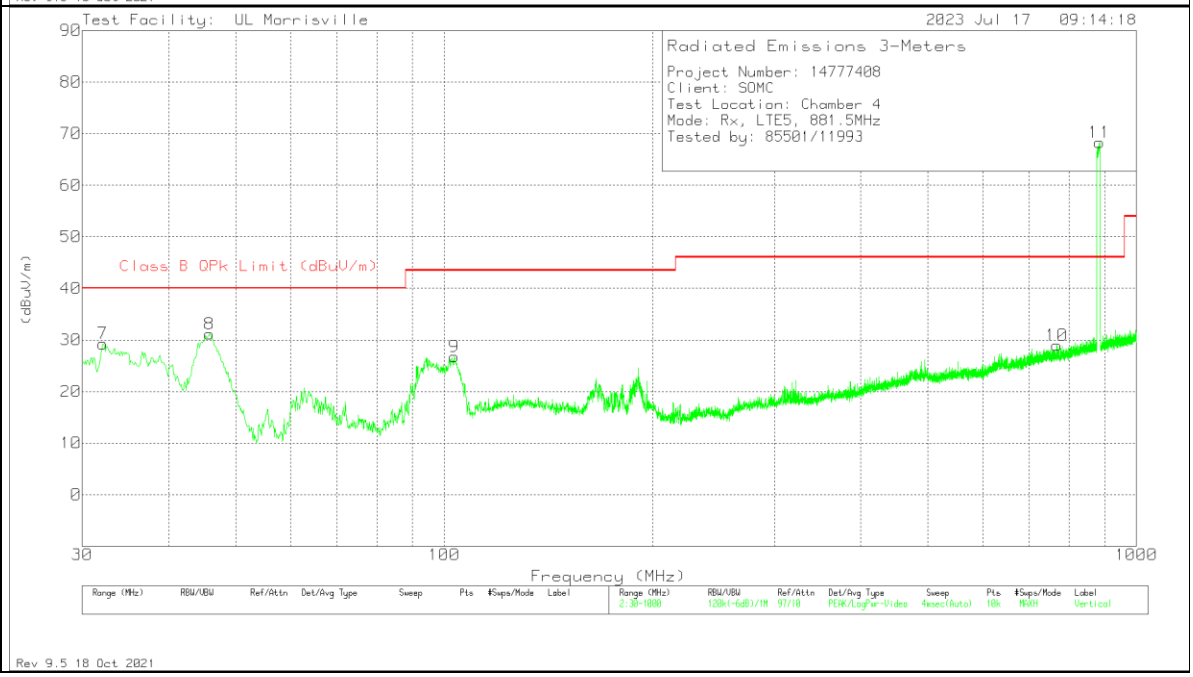
RADIATED EMISSIONS 30 TO 1000 MHz – LTE B5 Rx 881.5MHz

Radiated Emissions Graph

HORIZONTAL



VERTICAL



Radiated Emissions Data Points

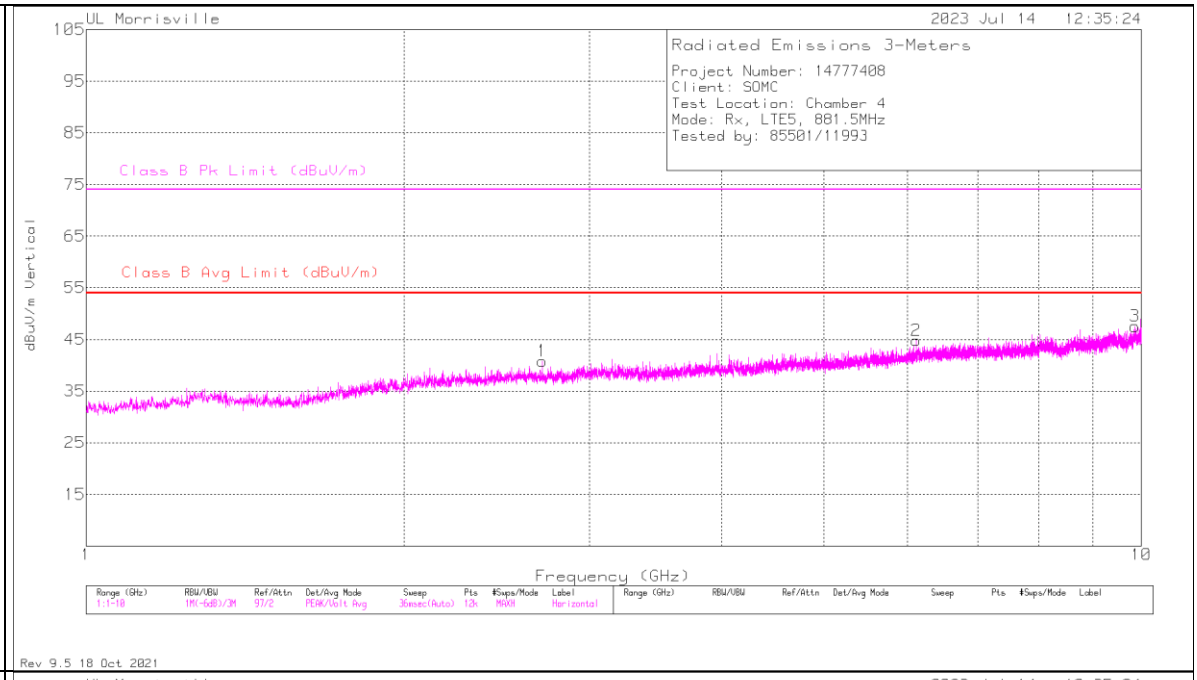
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90627 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	31.067	29.25	Pk	26.5	-31.7	24.05	40	-15.95	0-360	300	H
7	32.134	34.97	Pk	25.8	-31.5	29.27	40	-10.73	0-360	99	V
8	45.811	46.83	Pk	15.9	-31.6	31.13	40	-8.87	0-360	99	V
2	63.077	38.11	Pk	14.1	-31.3	20.91	40	-19.09	0-360	401	H
9	103.526	40.17	Pk	17.5	-30.9	26.77	43.52	-16.75	0-360	99	V
3	105.563	34.66	Pk	17.9	-30.8	21.76	43.52	-21.76	0-360	300	H
4	165.121	35.13	Pk	18.3	-30.2	23.23	43.52	-20.29	0-360	201	H
10	767.685	29.85	Pk	26.7	-27.6	28.95	46.02	-17.07	0-360	201	V
5	778.258	30.37	Pk	26.8	-27.4	29.77	46.02	-16.25	0-360	99	H
6	883.794 (DL)	56.78	Pk	27.9	-26.2	-	-	-	0-360	99	H
11	884.764 (DL)	66.69	Pk	27.9	-26.3	-	-	-	0-360	99	V

Pk - Peak detector
DL – Callbox downlink frequencies

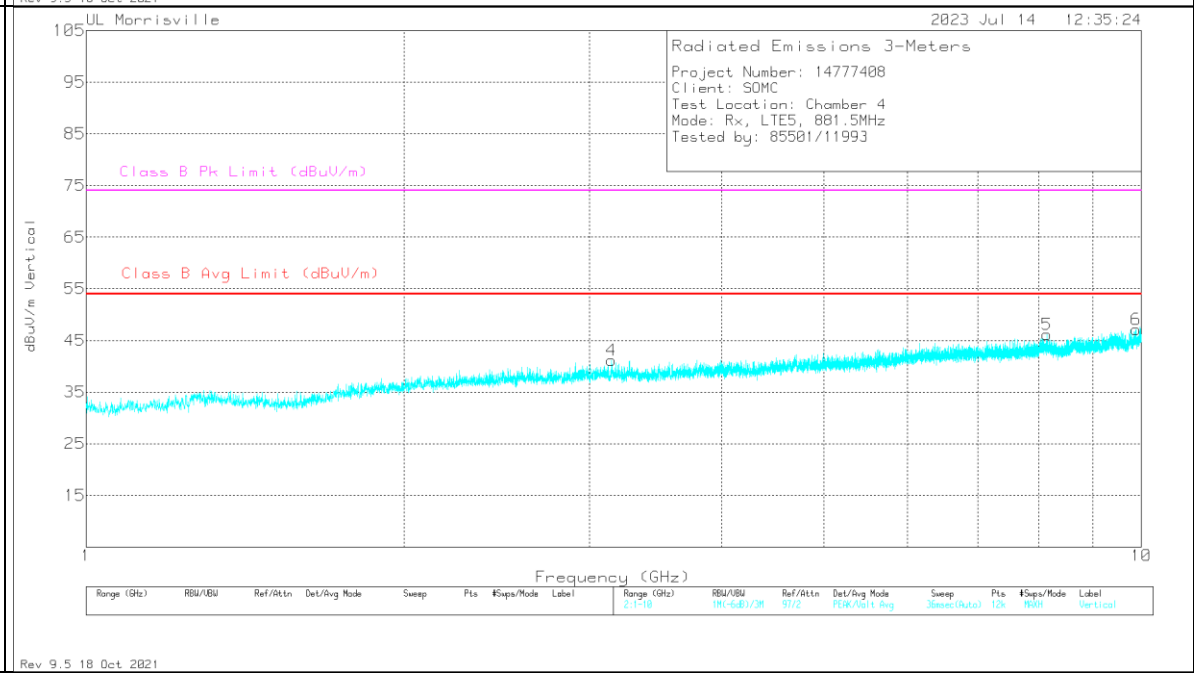
RADIATED EMISSIONS 1000 TO 10,000 MHz – LTE B5 Rx 881.5MHz

Radiated Emissions Graph

HORIZONTAL



VERTICAL



Radiated Emissions Data Points

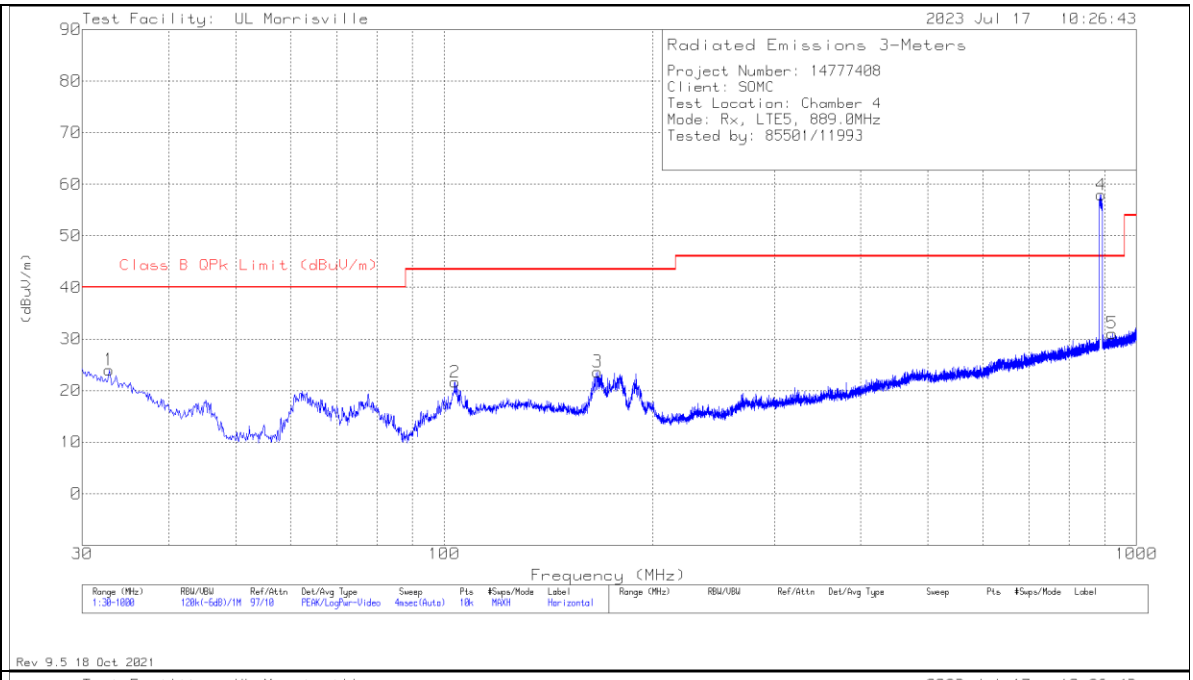
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.70625	44.3	Pk	32.4	-35.9	40.8	54	-13.2	74	-33.2	0-360	100	H
4	3.148	43.44	Pk	33	-35.3	41.14	54	-12.86	74	-32.86	0-360	200	V
2	6.12175	39.6	Pk	35.2	-30	44.8	54	-9.2	74	-29.2	0-360	100	H
5	8.13775	37.94	Pk	35.8	-27.6	46.14	54	-7.86	74	-27.86	0-360	200	V
3	9.862	36.56	Pk	36.9	-25.9	47.56	54	-6.44	74	-26.44	0-360	100	H
6	9.8905	36.43	Pk	37	-26.3	47.13	54	-6.87	74	-26.87	0-360	200	V

Pk - Peak detector

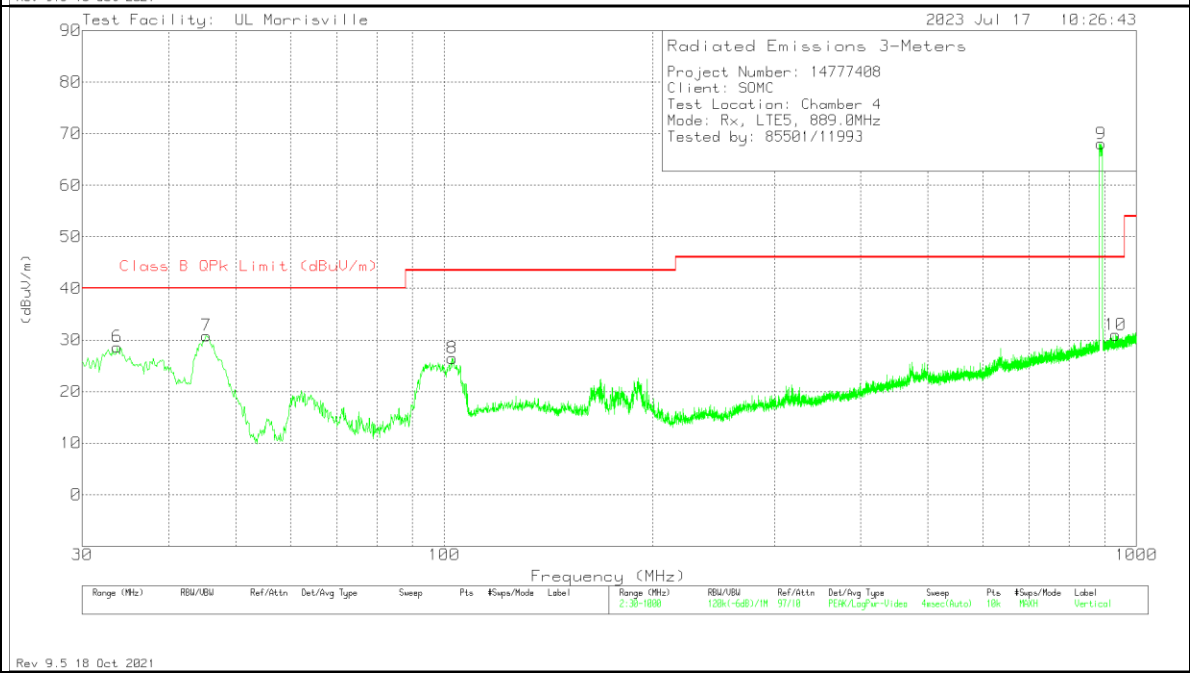
RADIATED EMISSIONS 30 TO 1000 MHz – LTE B5 Rx 889.0MHz

Radiated Emissions Graph

HORIZONTAL



VERTICAL



Radiated Emissions Data Points

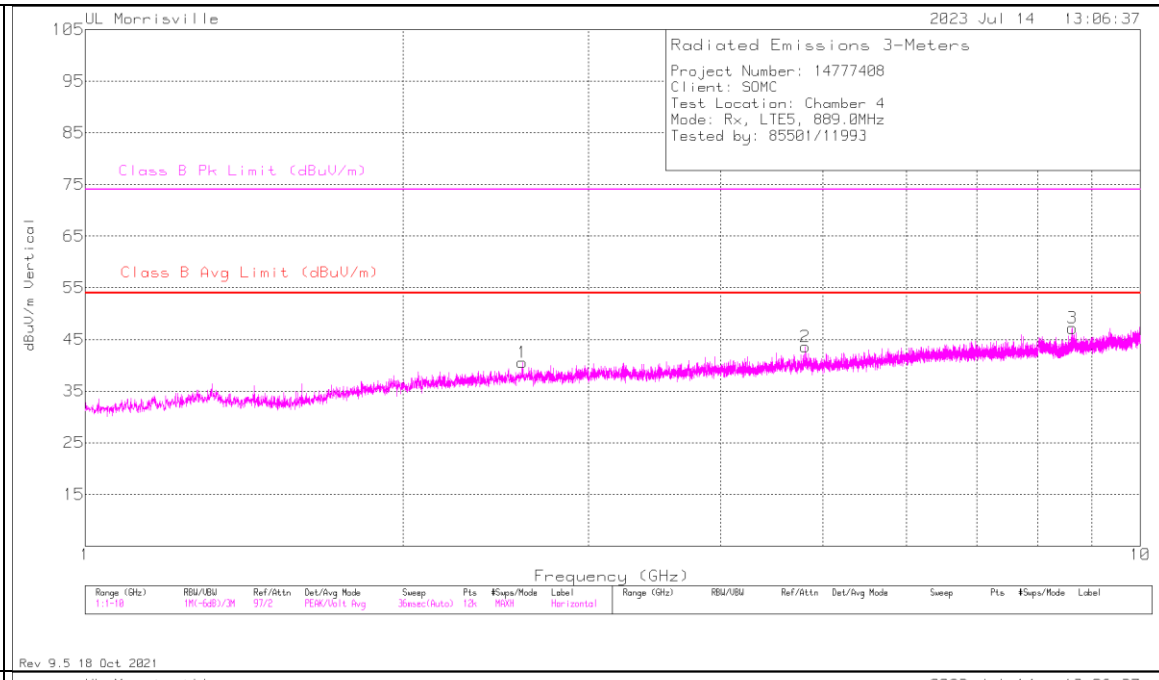
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90627 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	32.813	30.3	Pk	25.3	-31.6	24	40	-16	0-360	300	H
6	33.686	35.66	Pk	24.7	-31.7	28.66	40	-11.34	0-360	99	V
7	45.326	46.25	Pk	16.2	-31.6	30.85	40	-9.15	0-360	99	V
8	102.75	40.27	Pk	17.3	-31.1	26.47	43.52	-17.05	0-360	99	V
2	103.623	35.05	Pk	17.5	-30.9	21.65	43.52	-21.87	0-360	300	H
3	166.576	35.63	Pk	18.2	-30.2	23.63	43.52	-19.89	0-360	201	H
9	889.2745 (DL)	66.55	Pk	27.9	-26.4	-	-	-	0-360	99	V
4	889.323 (DL)	56.43	Pk	27.9	-26.4	-	-	-	0-360	401	H
5	922.788	28.89	Pk	28.2	-26	31.09	46.02	-14.93	0-360	201	H
10	933.458	28.59	Pk	28.3	-25.9	30.99	46.02	-15.03	0-360	201	V

Pk - Peak detector
DL – Callbox downlink frequencies

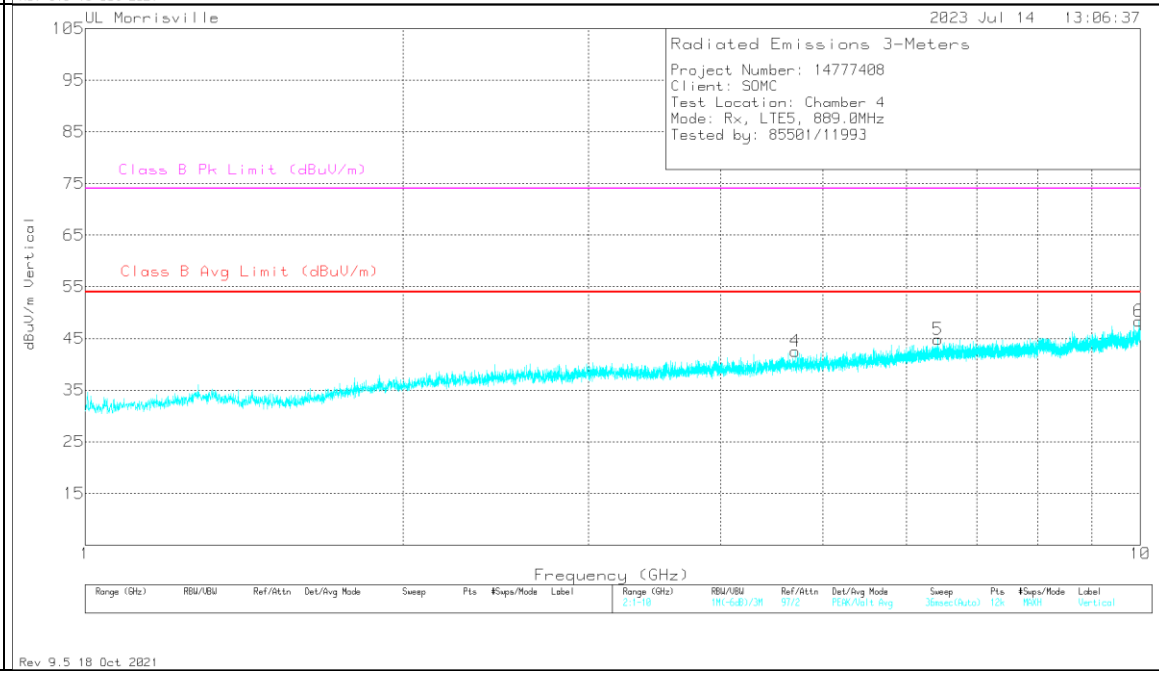
RADIATED EMISSIONS 1000 TO 10,000 MHz – LTE B5 Rx 889.0MHz

Radiated Emissions Graph

HORIZONTAL



VERTICAL



Radiated Emissions Data Points

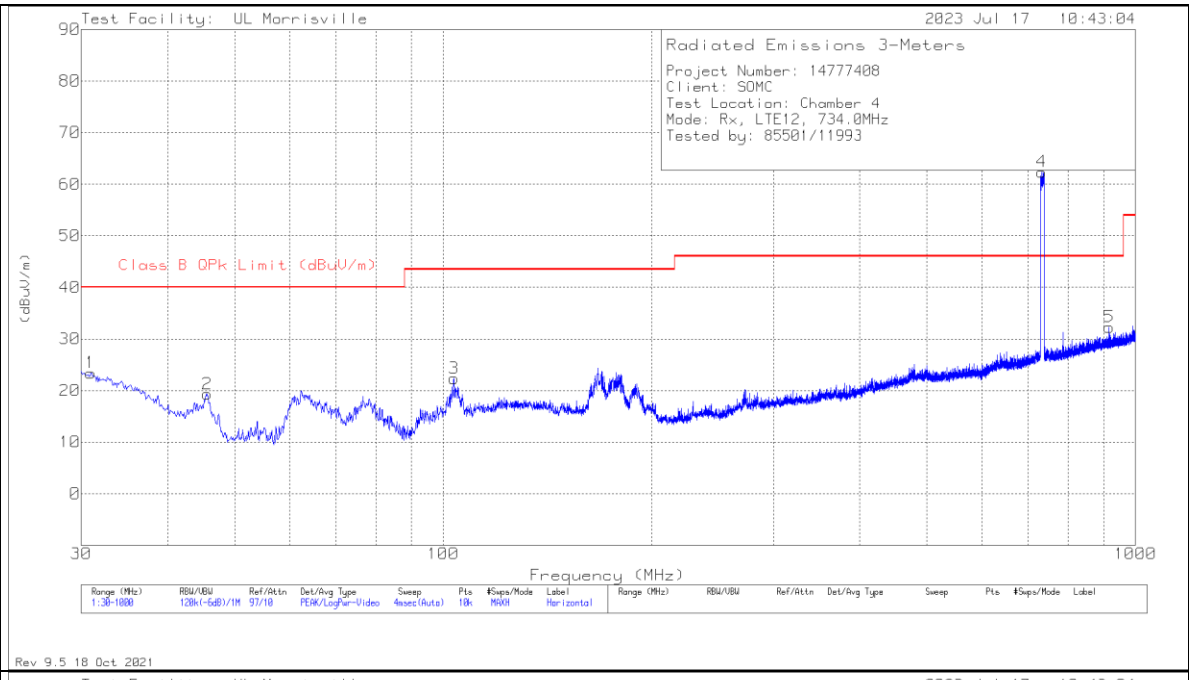
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.59525	43.94	Pk	32.6	-36	40.54	54	-13.46	74	-33.46	0-360	100	H
4	4.711	40.44	Pk	34.1	-32	42.54	54	-11.46	74	-31.46	0-360	200	V
2	4.816	41.08	Pk	34.1	-31.6	43.58	54	-10.42	74	-30.42	0-360	100	H
5	6.42925	38.82	Pk	35.4	-29.4	44.82	54	-9.18	74	-29.18	0-360	200	V
3	8.6245	37.91	Pk	35.8	-26.5	47.21	54	-6.79	74	-26.79	0-360	100	H
6	9.97453	38.53	Pk	37.1	-26.4	49.23	54	-4.77	74	-24.77	30	131	V

Pk - Peak detector

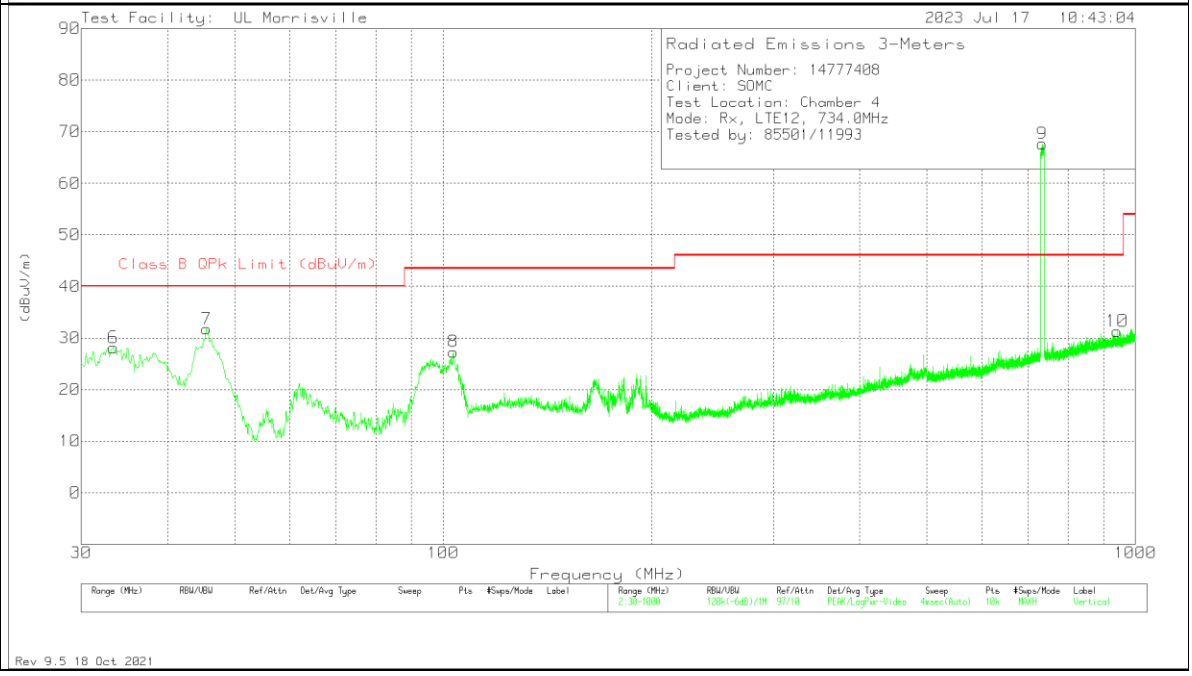
RADIATED EMISSIONS 30 TO 1000 MHz – LTE B12 Rx 734.0MHz

Radiated Emissions Graph

HORIZONTAL



VERTICAL



Radiated Emissions Data Points

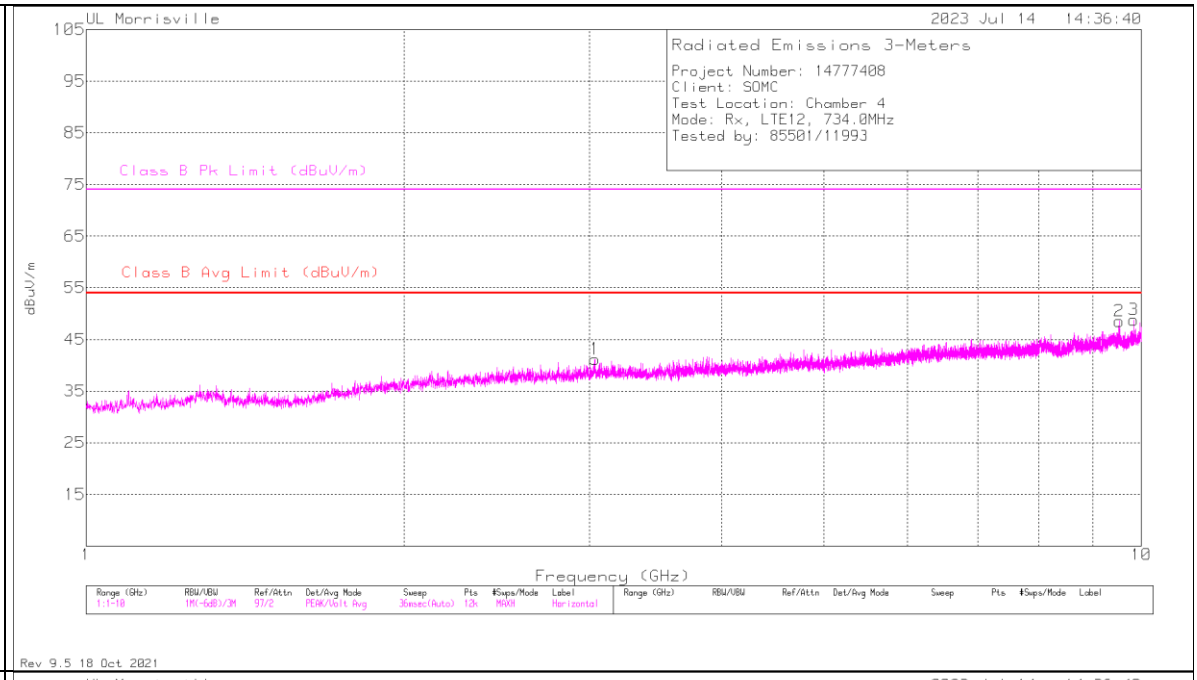
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90627 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.97	28.52	Pk	26.6	-31.7	23.42	40	-16.58	0-360	99	H
6	33.395	34.93	Pk	24.9	-31.7	28.13	40	-11.87	0-360	99	V
7	45.52	47.26	Pk	16.1	-31.6	31.76	40	-8.24	0-360	99	V
2	45.617	34.91	Pk	16	-31.6	19.31	40	-20.69	0-360	401	H
8	103.429	40.71	Pk	17.5	-30.9	27.31	43.52	-16.21	0-360	99	V
3	103.623	35.75	Pk	17.5	-30.9	22.35	43.52	-21.17	0-360	300	H
4	732.668 (DL)	63.4	Pk	26.6	-27.6	-	-	-	0-360	99	H
9	734.317 (DL)	68.54	Pk	26.6	-27.5	-	-	-	0-360	201	V
5	916.677	30.31	Pk	28.1	-26.1	32.31	46.02	-13.71	0-360	99	H
10	941.703	28.9	Pk	28.3	-25.9	31.3	46.02	-14.72	0-360	201	V

Pk - Peak detector
DL – Callbox downlink frequencies

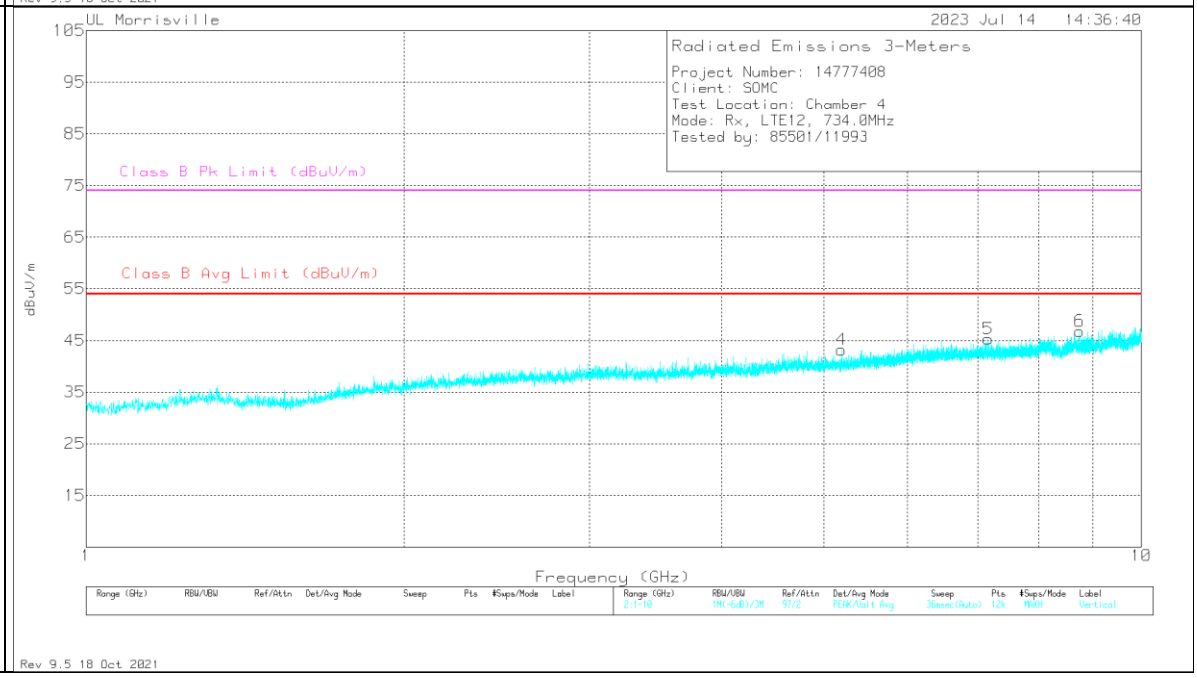
RADIATED EMISSIONS 1000 TO 10,000 MHz – LTE B12 Rx 734.0MHz

Radiated Emissions Graph

HORIZONTAL



VERTICAL



Radiated Emissions Data Points

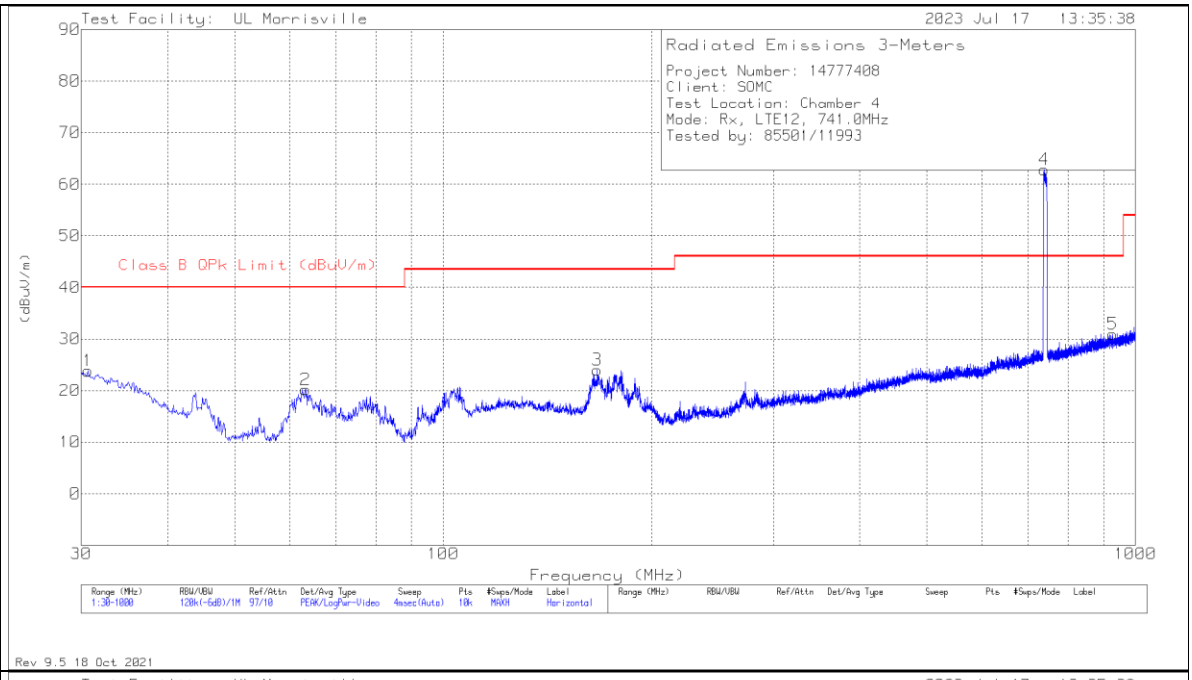
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.03475	43.7	Pk	33	-35.5	41.2	54	-12.8	74	-32.8	0-360	200	H
4	5.19925	40.78	Pk	34.2	-31.8	43.18	54	-10.82	74	-30.82	0-360	100	V
5	7.159	37.58	Pk	35.6	-27.9	45.28	54	-8.72	74	-28.72	0-360	100	V
6	8.7445	37.2	Pk	36	-26.4	46.8	54	-7.2	74	-27.2	0-360	100	V
2	9.53425	37.43	Pk	36.7	-25.6	48.53	54	-5.47	74	-25.47	93	152	H
3	9.83744	38.05	Pk	36.9	-25.8	49.15	54	-4.85	74	-24.85	215	266	H

Pk - Peak detector

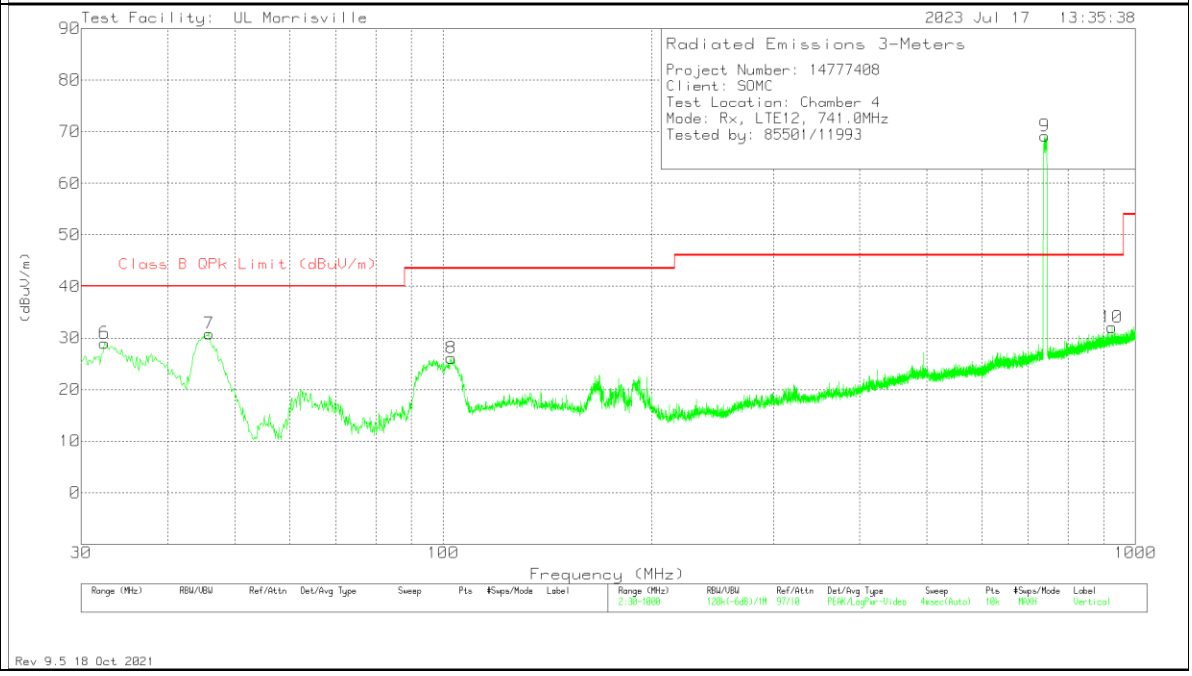
RADIATED EMISSIONS 30 TO 1000 MHz – LTE B12 Rx 741.0MHz

Radiated Emissions Graph

HORIZONTAL



VERTICAL



Radiated Emissions Data Points

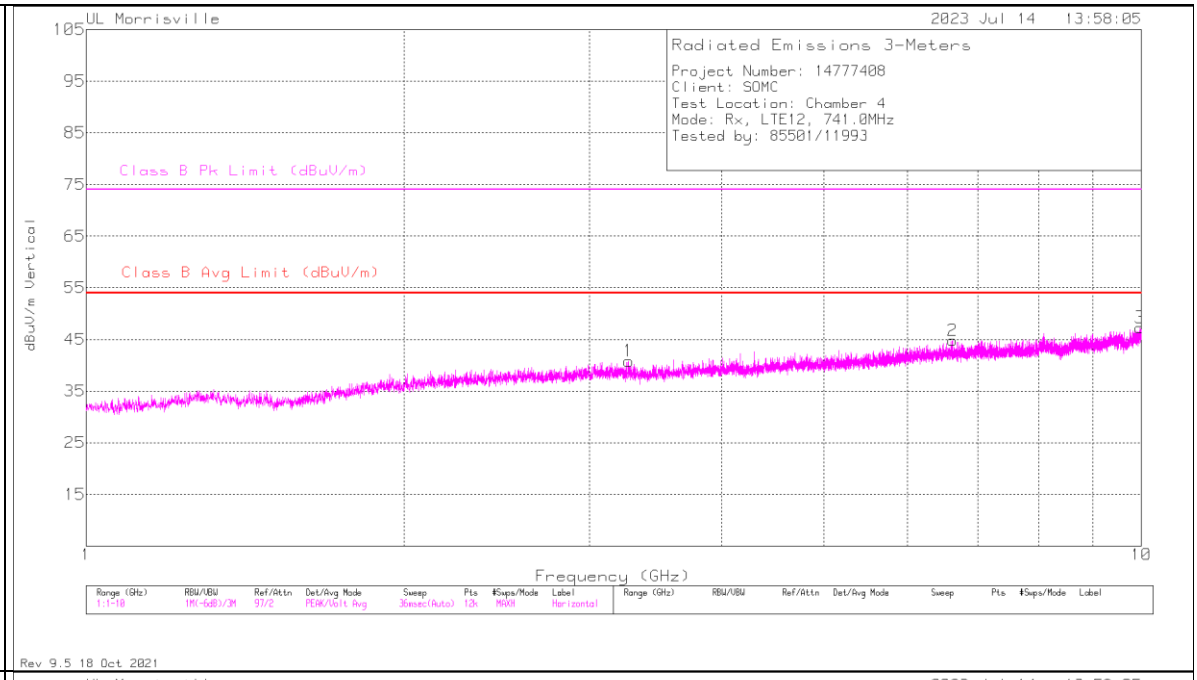
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90627 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.679	28.71	Pk	26.8	-31.7	23.81	40	-16.19	0-360	99	H
6	32.425	34.9	Pk	25.6	-31.5	29	40	-11	0-360	99	V
7	45.908	46.64	Pk	15.8	-31.6	30.84	40	-9.16	0-360	99	V
2	63.271	37.46	Pk	14.1	-31.4	20.16	40	-19.84	0-360	401	H
8	102.75	39.92	Pk	17.3	-31.1	26.12	43.52	-17.4	0-360	99	V
3	167.061	36.09	Pk	18.2	-30.3	23.99	43.52	-19.53	0-360	194	H
4	738.294 (DL)	63.83	Pk	26.6	-27.6	-	-	-	0-360	99	H
9	740.428 (DL)	70.08	Pk	26.7	-27.6	-	-	-	0-360	194	V
10	925.698	29.79	Pk	28.2	-25.9	32.09	46.02	-13.93	0-360	294	V
5	926.959	28.84	Pk	28.2	-26.1	30.94	46.02	-15.08	0-360	99	H

Pk - Peak detector
DL – Callbox downlink frequencies

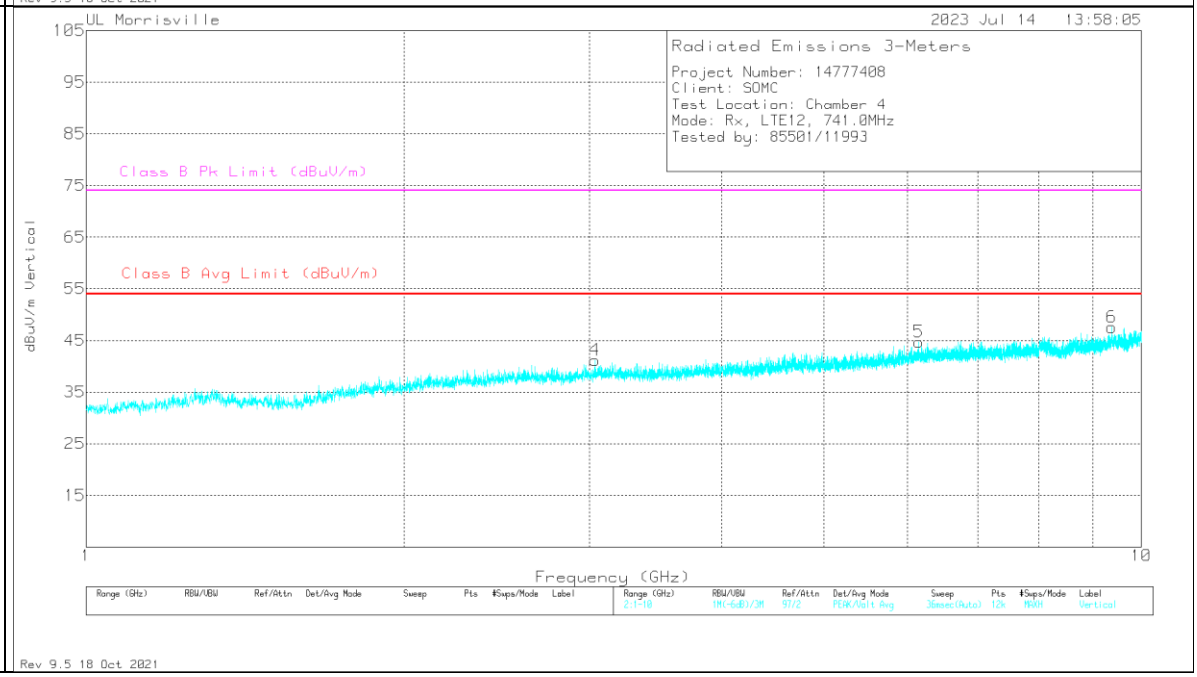
RADIATED EMISSIONS 1000 TO 10,000 MHz – LTE B12 Rx 741.0MHz

Radiated Emissions Graph

HORIZONTAL



VERTICAL



Radiated Emissions Data Points

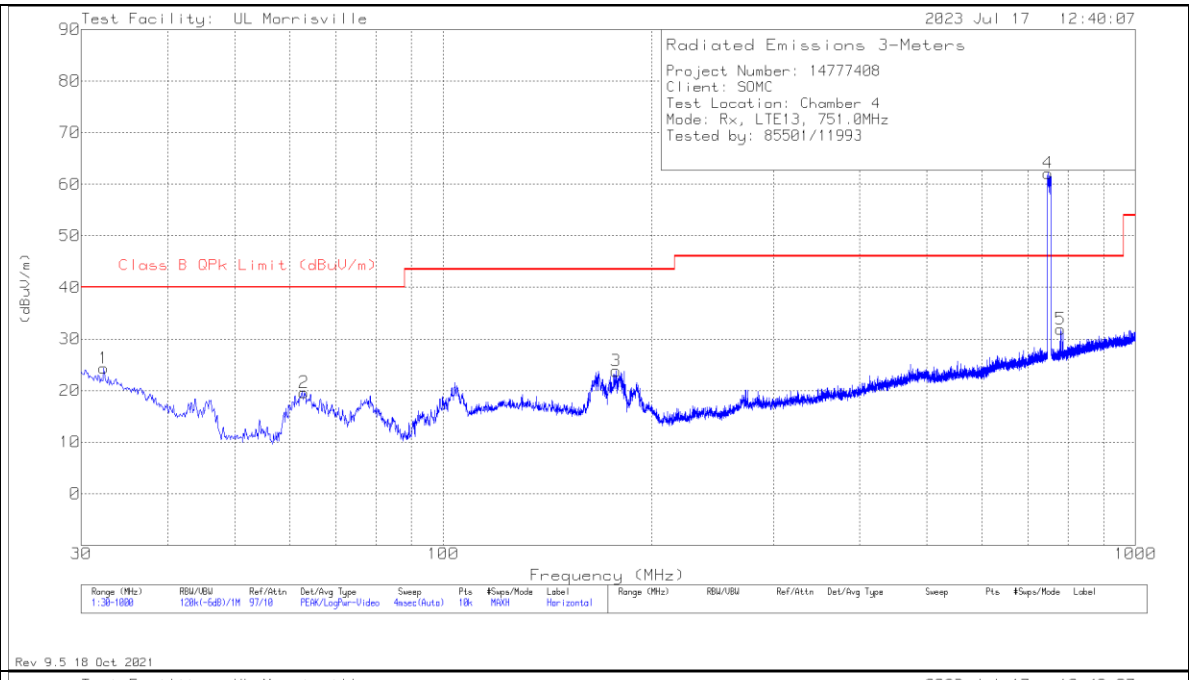
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	3.03475	43.7	Pk	33	-35.5	41.2	54	-12.8	74	-32.8	0-360	200	V
1	3.26725	42.81	Pk	32.9	-34.9	40.81	54	-13.19	74	-33.19	0-360	100	H
5	6.15025	38.92	Pk	35.3	-29.5	44.72	54	-9.28	74	-29.28	0-360	200	V
2	6.62425	38.1	Pk	35.5	-28.8	44.8	54	-9.2	74	-29.2	0-360	100	H
6	9.37675	36.77	Pk	36.6	-25.8	47.57	54	-6.43	74	-26.43	0-360	200	V
3	9.9685	36.47	Pk	37.1	-26.3	47.27	54	-6.73	74	-26.73	0-360	100	H

Pk - Peak detector

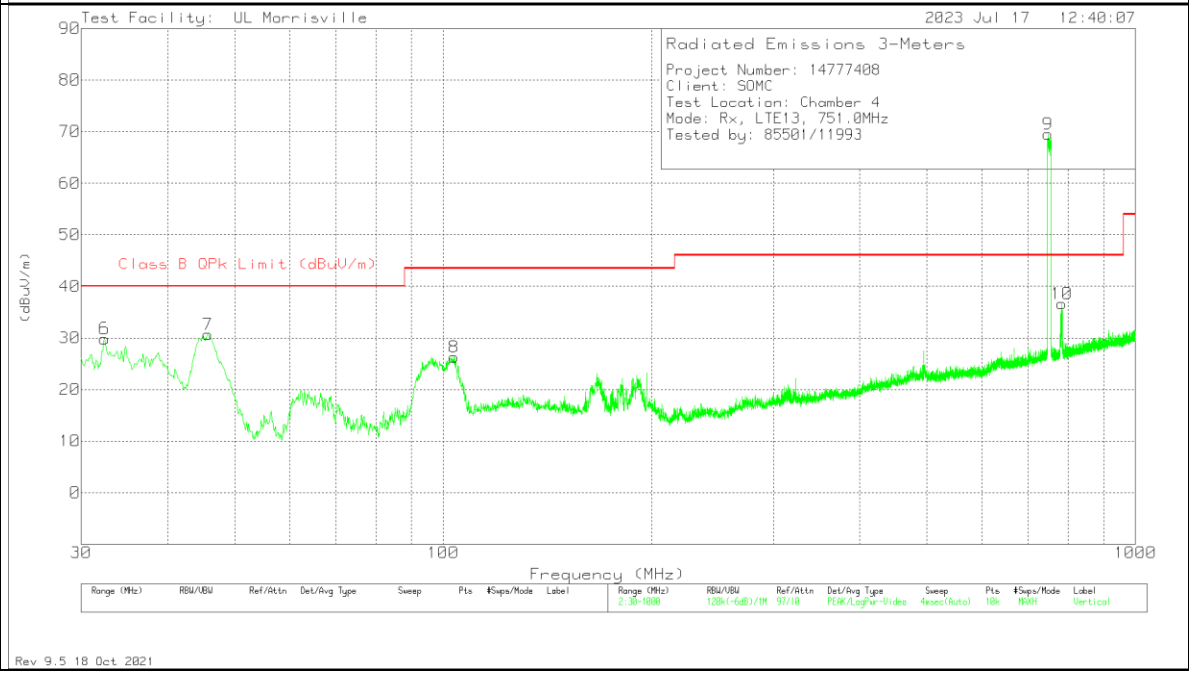
RADIATED EMISSIONS 30 TO 1000 MHz – LTE B13 Rx 751.0MHz

Radiated Emissions Graph

HORIZONTAL



VERTICAL



Radiated Emissions Data Points

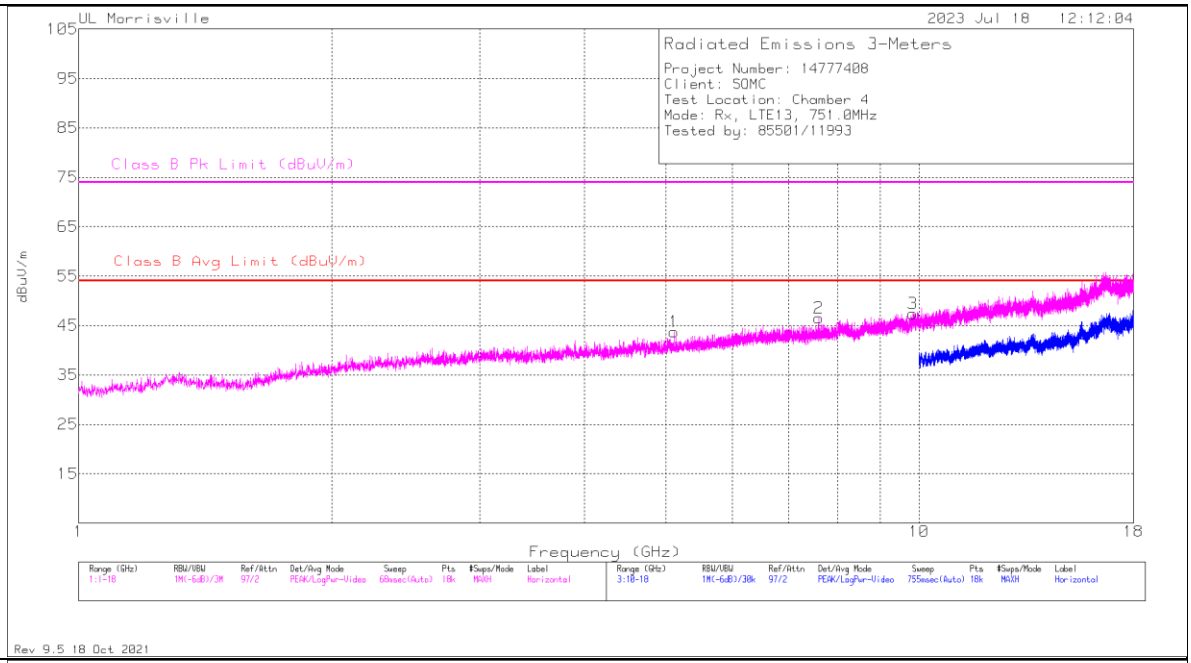
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90627 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	32.328	30.12	Pk	25.7	-31.5	24.32	40	-15.68	0-360	193	H
6	32.425	35.75	Pk	25.6	-31.5	29.85	40	-10.15	0-360	99	V
7	45.714	46.44	Pk	15.9	-31.7	30.64	40	-9.36	0-360	99	V
2	62.98	36.79	Pk	14.1	-31.3	19.59	40	-20.41	0-360	193	H
8	103.7685	39.56	Pk	17.6	-30.9	26.26	43.52	-17.26	0-360	99	V
3	177.731	36.5	Pk	17.6	-30.3	23.8	43.52	-19.72	0-360	193	H
9	748.091 (DL)	70.41	Pk	26.7	-27.6	-	-	-	0-360	193	V
4	748.188 (DL)	63.05	Pk	26.7	-27.6	-	-	-	0-360	99	H
5	780.198	32.42	Pk	26.8	-27.3	31.92	46.02	-14.1	0-360	193	H
10	782.817	37.11	Pk	26.7	-27.2	36.61	46.02	-9.41	0-360	99	V

Pk - Peak detector
DL – Callbox downlink frequencies

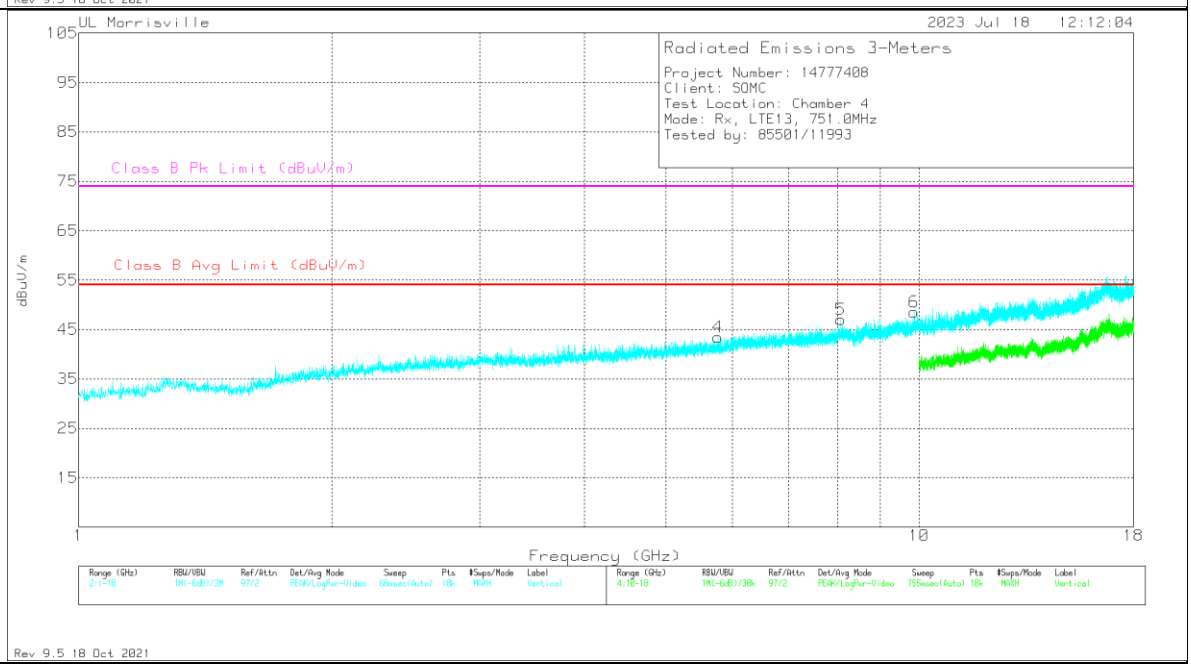
RADIATED EMISSIONS 1000 TO 18,000 MHz – LTE B13 Rx 751.0MHz

Radiated Emissions Graph

HORIZONTAL



VERTICAL



Radiated Emissions Data Points

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.10833	41.56	Pk	34.1	-31.9	43.76	54	-10.24	74	-30.24	0-360	100	H
4	5.76661	39.31	Pk	34.7	-30.5	43.51	54	-10.49	74	-30.49	0-360	200	V
2	7.59411	39.01	Pk	35.7	-28.2	46.51	54	-7.49	74	-27.49	0-360	100	H
5	8.07011	38.92	Pk	35.8	-27.7	47.02	54	-6.98	74	-26.98	0-360	200	V
3	9.84094	36.89	Pk	36.9	-26.4	47.39	54	-6.61	74	-26.61	0-360	100	H
6	9.86641	38.48	Pk	36.9	-26.4	48.98	54	-5.02	74	-25.02	174	292	V

Pk - Peak detector

Appendix A

Facilities, Accreditations and Authorizations

UL LLC is accredited by A2LA, certification # 0751.06, 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: 12 Laboratory Dr RTP, NC 27709, U.S.A	US0067	2180C	825374
☒	Building: 2800 Perimeter Park Dr. Suite B Morrisville, NC 27560, U.S.A		27265	

END OF TEST REPORT