



Report Number: R16314687-E13a
Issue Date: 2026-07-09
Product Name: GSM/WCDMA/LTE/NR/SCS
Phone + BT/BLE, DTS/UNII
a/b/g/n/ac/ax, WPT and NFC
Model Number: SM-S741U, SM-S741U1

Electromagnetic Compatibility Test Report

For

Samsung Electronics Co Ltd
129, Samsung-ro, Yeongtong-gu, Suwon-si,
Gyeonggi-do, 16677, Rep. of Korea



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Test Report Details

Tests Performed By: UL LLC
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Durham, NC 27713, USA

Tests Performed For: Samsung Electronics Co Ltd
129, Samsung-ro, Yeongtong-gu, Suwon-si,
Gyeonggi-do, 16677, Rep. of Korea

Issue Date: 2026-07-09

Product Name: GSM/WCDMA/LTE/NR/SCS Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax,
WPT and NFC

Model Number Tested: SM-S741U, SM-S741U1

FCC ID: A3LSMS741U

Sample Serial Number: ZDR0384M

Applicable Standards: FCC 47 CFR PART 15 SUBPART B: 2026
ICES-003 ISSUE 7:2020
ICES-Gen, ISSUE 2: 2024
ANSI C63.4-2014

Date Test Item Received: 2026-04-27

Testing Start Date: 2026-06-29

Date Testing Complete: 2026-06-30

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.

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Report Revision History

Revision Date	Revision Version	Description	Revised By	Revision Reviewed By
2026-07-09	V1	Initial Issue	Noah Bennett	Jeff Moser

1.0 SUMMARY

All tests were performed in accordance with ANSI C63.4:2014, ICES-003 ISSUE 7:2020, and ICES-Gen ISSUE 2: 2024.

1.1 Deviations from standard test methods

None

1.2 Device Modifications Necessary for Compliance

None

1.3 Applicable Standards

Standard
FCC 47 CFR PART 15 SUBPART B: 2026
ICES-003 ISSUE 7: 2020
ICES-Gen ISSUE 2: 2024
ANSI C63.4-2014

1.4 Summary of Tests

This product is considered Class B

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

Approved & Released For

UL LLC. By:



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UL LLC.

Prepared By:



Noah Bennett
Engineer Project Associate
Consumer, Medical, and IT Segment
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	± 3 dB
Worst Case Radiated Disturbance, All ranges	± 6 dB

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)

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

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

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

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

3.0 GENERAL - Product Description

3.1 Equipment Description

The EUT is a GSM/WCDMA/LTE/NR/SCS Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax, WPT and NFC.
--

3.2 Equipment Marking Plate

N/A

3.3 Device Configuration During Test

3.3.1 Equipment Used During Test:

Use	Product Type	Manufacturer	Model	Comments
EUT	GSM/WCDMA/LTE/NR/SCS Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax, WPT and NFC	Samsung	SM-S741U, SM-S741U1	None
AE	Power Adapter	Sony	XQZ-UC11-010-236-21	Used to Power EUT

Note: **EUT** - Equipment Under Test, **AE** - Auxiliary/Associated Equipment, or **SIM** - Simulator (Not Subjected to Test)

3.3.2 Input/Output Ports:

Port #	Name	Type*	Cable Max. >3m (Y/N)	Cable Shielded (Y/N)	Comments
0	Enclosure	N/E	N/A	N/A	EUT Housing
1	Charging Cable	DC	N	Y	EUT to Power Adapter

*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

3.3.3 EUT Internal Operating Frequencies:

Frequency (MHz)	Description
7115	Highest internal frequency.

3.3.4 Power Interface:

Mode # /Rated	Voltage (V)	Current (A)	Power (W)	Frequency (DC/AC-Hz)	Phases (#)	Comments
Rated	5 VDC	1	-	DC	-	None
1	5 VDC	1	-	DC	-	Phone

3.3.5 Subassemblies

Description	Manufacturer	Model
None		

3.3.6 Manufacturer's Description of Model Differences

This report covers 2 models, the model differences and the representative model is shown below:

Representative Model	Difference	Derivative Model
		SM-S741U1
SM-S741U	Hardware	Same as SM-S741U
	Software	Different UI

3.4 Block Diagram:

Refer to R16314687-EP1 for Setup Photos and Setup Diagrams.

3.5 EUT Configurations

Configuration #	Description
1	The EUT is tested as tabletop equipment and connected to power for charging.

3.6 EUT Operation Modes

Mode of Operation#	Description
1	The EUT is connected to power for charging and the radios are left in an idle state.
2	The EUT is powered on and configured to run as intended. Its WWAN radios are set to Rx mode. The EUT supports below 1GHz bands LTE B26, LTE B5, LTE B12, LTE B13, LTE B71, LTE B14, GSM850, WCDMA850, NR n26, NR n12, NR n71, NR n14. Band 26, 12, 13, 71, and 5 were tested to represent all applicable supported bands (30-960 MHz).

3.7 Rationale for EUT Configurations

Configuration #	Description
1	The EUT was investigated in three orthogonal orientations: X, Y, and Z. Through pretesting, it was determined that the Y-orientation was worst-case; therefore, all testing was performed with the EUT in the Y-orientation. The selected EUT configurations was chosen to maximize emissions.

3.8 Rationale for EUT Mode of Operation

Mode of Operation #	Description
1	This report covers unintentional emissions. Therefore, testing was performed with the radio idle.
2	This report covers unintentional emissions. Therefore, testing was performed with the WWAN radios set to receive. The below 1GHz supported bands are: LTE B26, LTE B5, LTE B12, LTE B13, LTE B71, LTE B14, GSM850, WCDMA850, NR n26, NR n12, NR n71, NR n14. Band 26, 12, 13, 71, and 5 were tested to represent all applicable supported bands (30-960 MHz).

4.0 APPLICABLE EMISSIONS LIMITS AND TEST RESULTS

This report contains data provided by the applicant which can impact the validity of results. UL LLC is only responsible for the validity of results after the integration of the data provided by the customer.

4.1 Test Conditions and Results – MAINS TERMINAL – CONDUCTED EMISSIONS

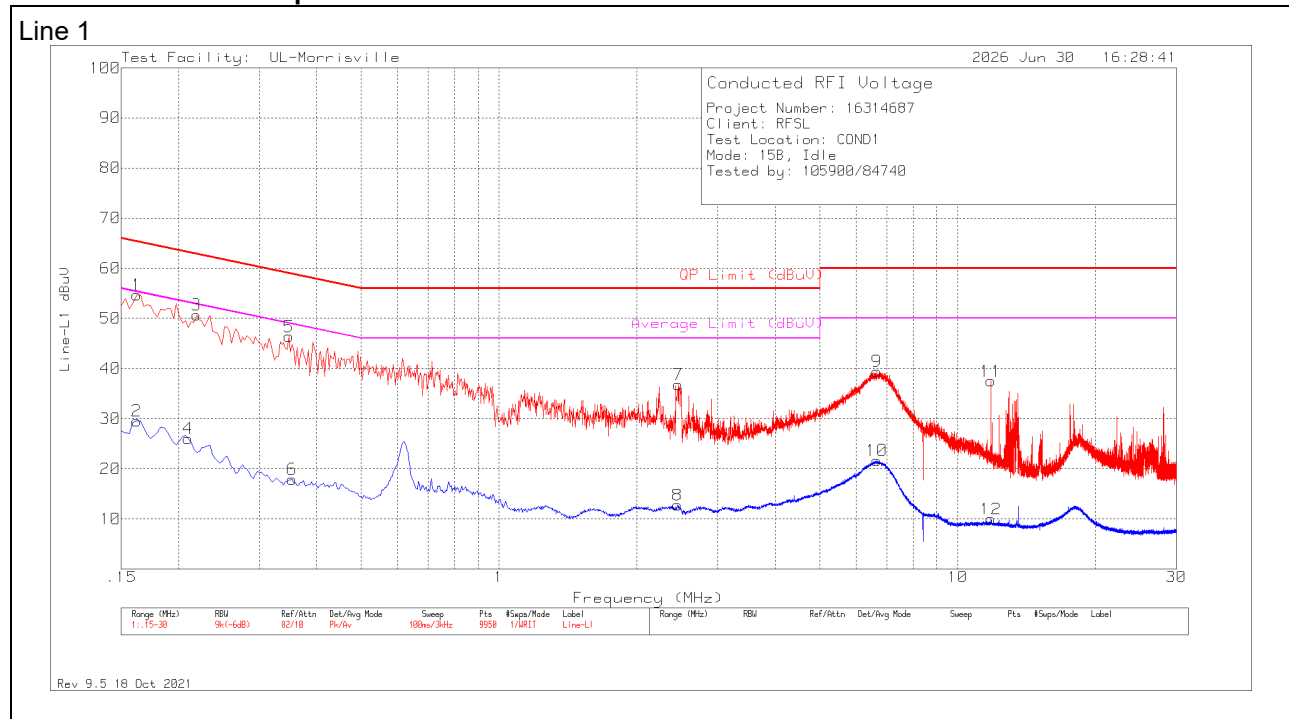
Test Standards	ANSI C63.4-2014 ICES-003 ISSUE 7: 2020 ICES-GEN ISSUE 2: 2024	
Test Engineer	105900/84740	
Test Date	2026-06-30	
Laboratory Parameters	Required prior to the test	During the test
Ambient Temperature	10-40°C	24.6 C
Humidity	10% - 90%	29.0 %
	Frequency range on each side of line	Measurement 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	1	1
Supplementary information: None		

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	2026-05-11	2027-05-11
179892	Environmental Meter	Fisher Scientific	15-077-963	2025-08-05	2026-08-06
80391	LISN, 50-ohm/50-uH, 2-conductor, 25A	Fischer Custom Com.	FCC-LISN-50-25-2-01-550V	2025-08-01	2026-08-01
70374	EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESCI 7	2025-07-30	2026-07-30
52859	Transient Limiter, 0.009-100MHz	Electro-Metrics	EM-7600	2026-05-11	2027-05-11
PS214	AC Power Source	Elgar	CW2501M	NA	NA
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
	Miscellaneous (if needed)				
84681	AC Mains Extension Cable	UL	CDECABLE001	2026-05-11	2027-05-11

Results**Conducted Emissions Graph****Conducted Emissions Data Points**

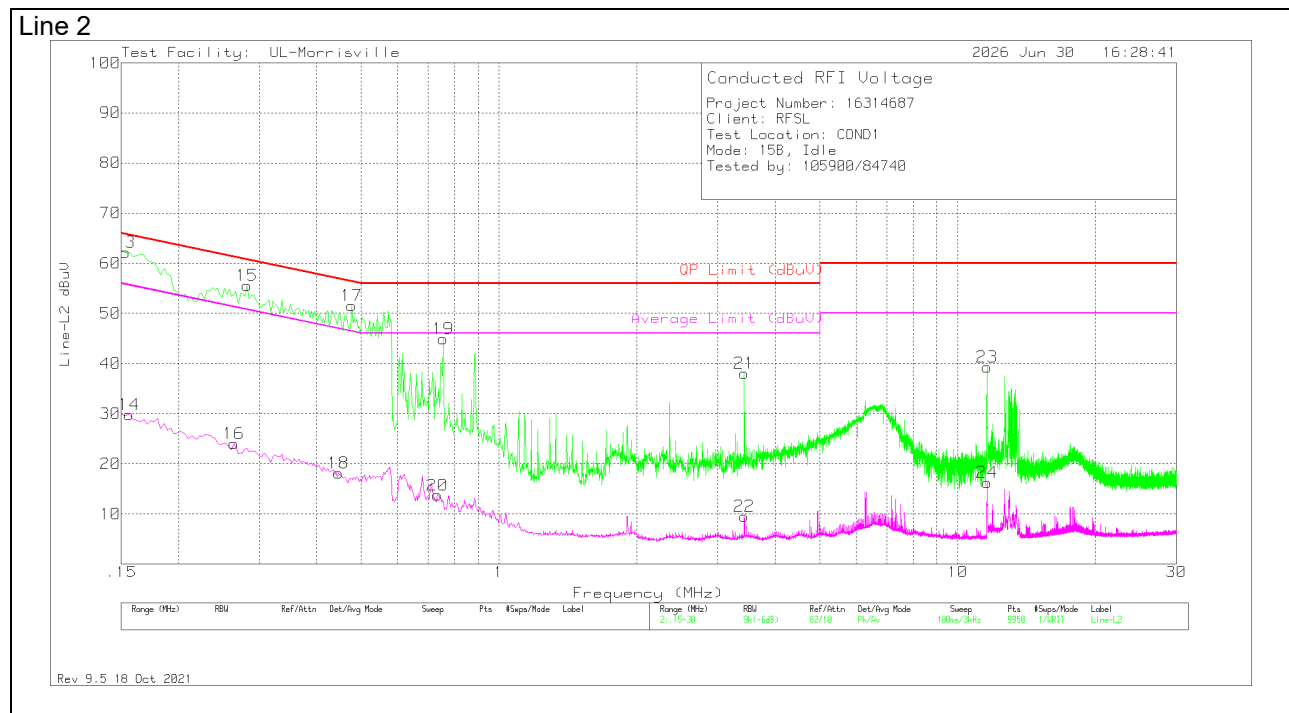
Range 1: Line-L1 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
1	.162	44.72	Pk	.2	9.8	54.72	65.36	-10.64	-	-
2	.162	19.57	Av	.2	9.8	29.57	-	-	55.36	-25.79
3	.219	40.84	Pk	.1	9.8	50.74	62.86	-12.12	-	-
4	.21	16.12	Av	.1	9.8	26.02	-	-	53.21	-27.19
5	.348	36.47	Pk	.1	9.8	46.37	59.01	-12.64	-	-
6	.354	7.95	Av	.1	9.8	17.85	-	-	48.87	-31.02
7	2.457	27	Pk	0	9.8	36.8	56	-19.2	-	-
8	2.451	2.91	Av	0	9.8	12.71	-	-	46	-33.29
9	6.663	29.54	Pk	0	9.9	39.44	60	-20.56	-	-
10	6.666	11.7	Av	0	9.9	21.6	-	-	50	-28.4
11	11.829	27.38	Pk	.1	10	37.48	60	-22.52	-	-
12	11.832	-.15	Av	.1	10	9.95	-	-	50	-40.05

Pk - Peak detector

Av - Average detection

Qp - Quasi-Peak detector

Ca - CISPR average detection

Conducted Emissions Graph**Conducted Emissions Data Points**

Range 2: Line-L2 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBUV	QP Limit (dBUV)	Margin (dB)	Average Limit (dBUV)	Margin (dB)
13	.15155	22.36	Qp	.2	9.8	32.36	65.91	-33.55	-	-
14	.156	19.76	Av	.2	9.8	29.76	-	-	55.67	-25.91
15	.2645	26.28	Qp	.1	9.8	36.18	61.29	-25.11	-	-
16	.264	14.12	Av	.1	9.8	24.02	-	-	51.3	-27.28
17	.47578	3.42	Qp	0	9.8	13.22	56.41	-43.19	-	-
18	.447	8.37	Av	0	9.8	18.17	-	-	46.93	-28.76
19	.756	35.09	Pk	0	9.8	44.89	56	-11.11	-	-
20	.735	3.91	Av	0	9.8	13.71	-	-	46	-32.29
21	3.426	28.13	Pk	0	9.9	38.03	56	-17.97	-	-
22	3.426	-43	Av	0	9.9	9.47	-	-	46	-36.53
23	11.607	29.22	Pk	.1	10	39.32	60	-20.68	-	-
24	11.601	6.12	Av	.1	10	16.22	-	-	50	-33.78

Pk - Peak detector

Av - Average detection

Qp - Quasi-Peak detector

Ca - CISPR average detection

5.0 APPLICABLE EMISSIONS LIMITS AND TEST RESULTS

This report contains data provided by the applicant which can impact the validity of results. UL LLC is only responsible for the validity of results after the integration of the data provided by the customer.

5.1 Test Conditions and Results - RADIATED EMISSIONS

Test Description	Measurements were made in a 3-meter semi-anechoic chamber that complies to CISPR 16/ANSI C63.4. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 3-meter. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in both horizontal and vertical polarities. Final measurements (quasi-peak or average as noted) were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4-meters. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable.	
Test Standards	ANSI C63.4-2014 ICES-003 ISSUE 7: 2020 ICES-GEN ISSUE 2: 2024	
Test Engineer	84740/11993	
Date Tested	2026-06-29 & 2026-06-30	
Laboratory Parameters	Required prior to the test	During the test
Ambient Temperature	10-40°C	23.1 C
Humidity	10% to 90%	52.5 %
	Frequency range	Measurement Point
Fully configured sample scanned over the following frequency range	30 MHz to 40 GHz	3 m
Limits - Class B		
Frequency (MHz)	Limit (dBµV/m)	
FCC Limits for radiated disturbance of Class B ITE at measuring distance of 3 m		
30-88	40	NA
88-216	43.5	NA
216-230	46	NA
230-960	46 (FCC) / 47 (ICES)	NA
Above 960	54	NA
	Peak	Average
Above 1 GHz	74	54
Supplementary information: FCC limits used as worst-case		

Note: For Config 2, Low, Mid and High Channel(s) were tested, but only the worst-case channel per band per frequency range is reported.

Radiated Emissions EUT Configuration Settings

Power Interface #	EUT Configurations #	EUT Mode of Operation#
1	1	1, 2
Supplementary information: None		

Radiated Emissions Test Equipment

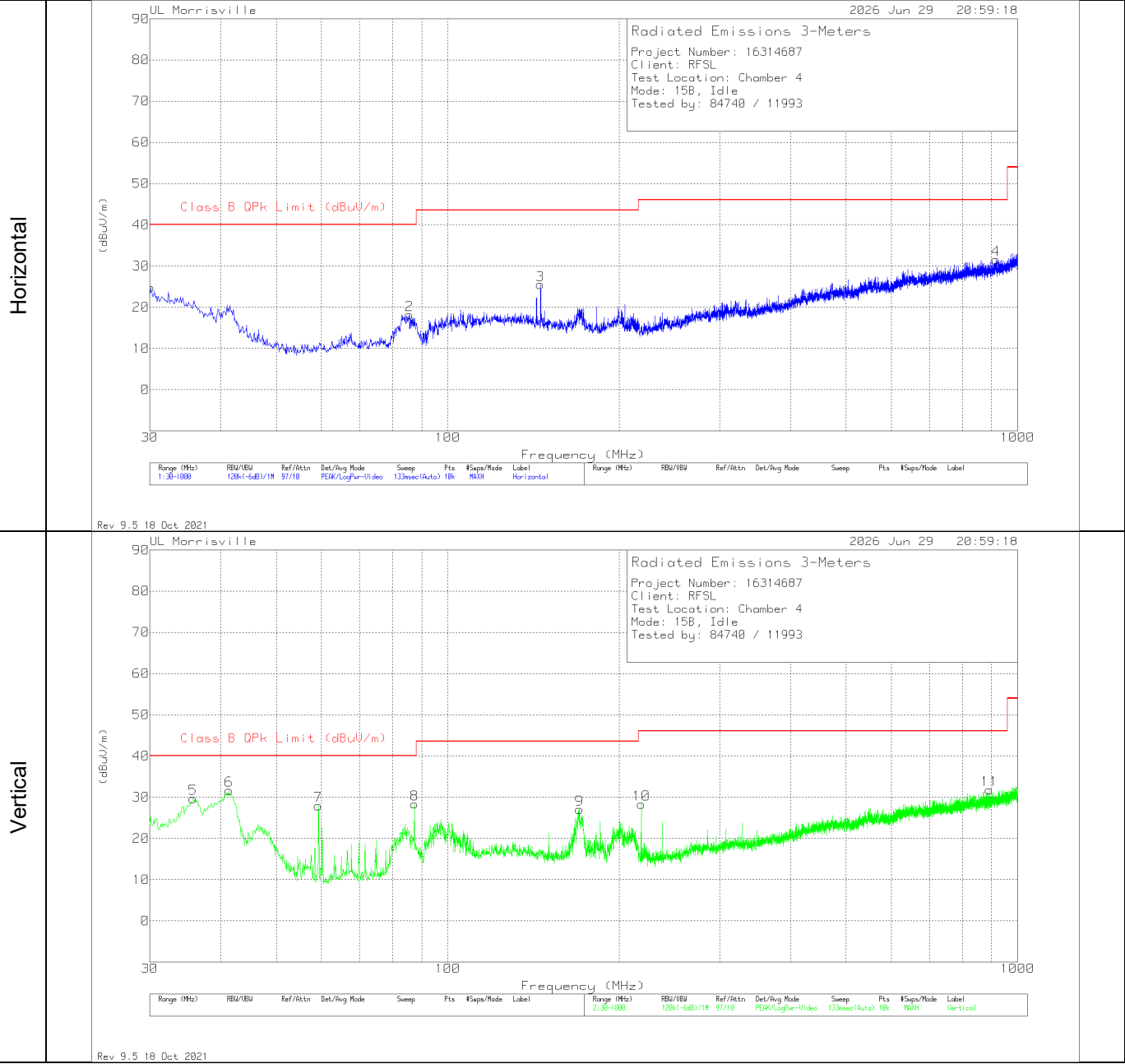
Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 4)

Equip. ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
	30-1000 MHz				
90628	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2026-02-09	2028-02-09
	1-18 GHz				
135143	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2026-03-02	2028-03-02
	18-40 GHz				
204704	Horn Antenna, 18-26.5GHz	Com Power	AH-826	2025-07-15	2027-07-15
204705	Horn Antenna, 26-40GHz	Com Power	AH-640	2025-11-19	2027-11-19
	Gain-Loss Chains				
207639	Gain-loss string: 25-1000MHz	Various	Various	2025-06-13	2026-06-30
207640	Gain-loss string: 1-18GHz	Various	Various	2025-06-13	2026-06-30
225795	Gain-loss string: 18-40GHz	Various	Various	2025-06-13	2026-06-30
	Receiver & Software				
206459	Spectrum Analyzer	Rohde & Schwarz	FSW	2025-09-15	2026-09-15
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
	Additional Equipment used				
241204	Environmental Meter	Fisher Scientific	15-077-963	2025-08-05	2027-08-05

Note: All equipment was in calibration at the time of tests.

5.1.1 RADIATED EMISSIONS 30 TO 1,000 MHz (Config 1, Mode 1)

Radiated Emissions Graph



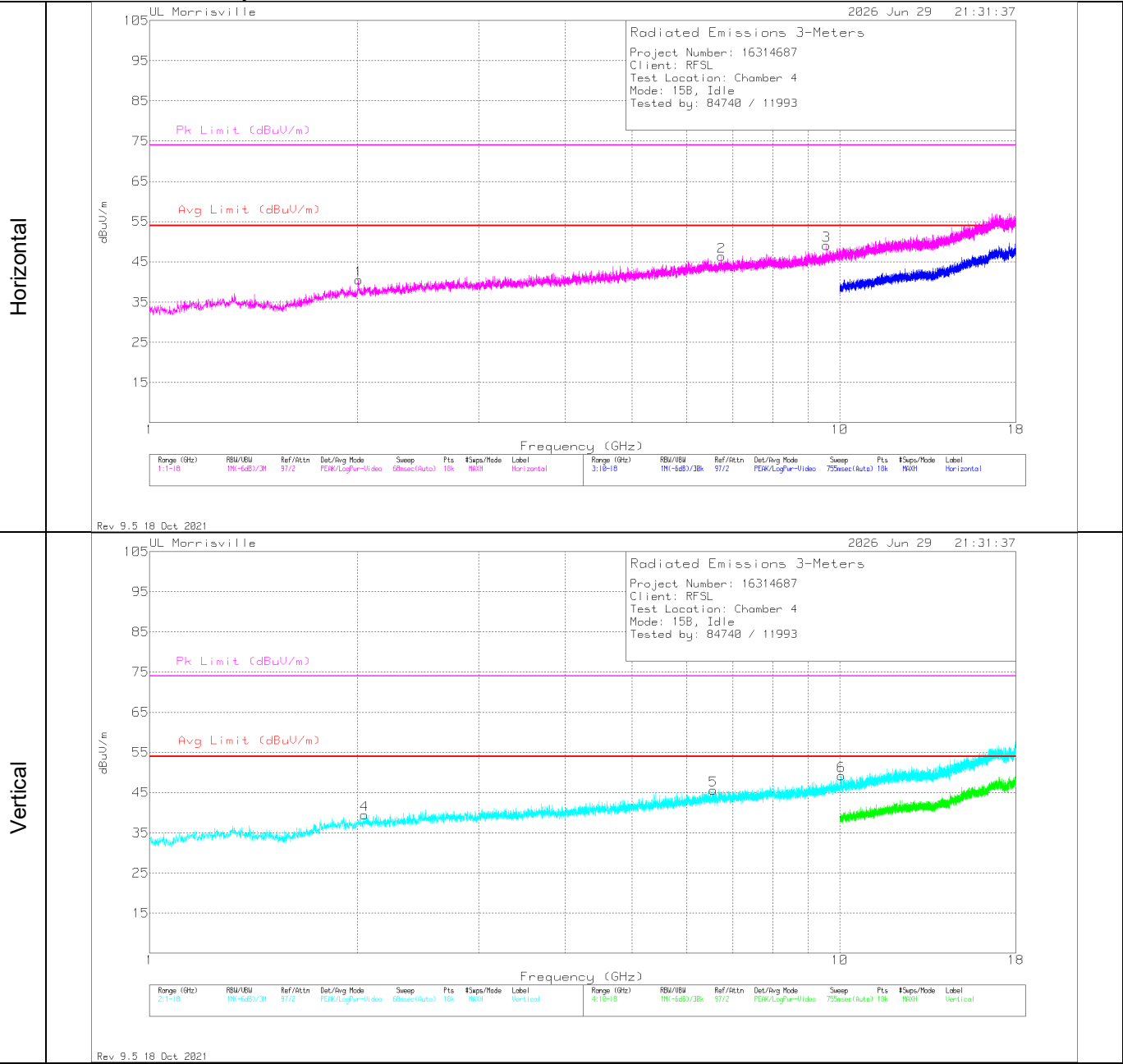
Radiated Emissions Data Points

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90628 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.097	29.24	Pk	26.8	-31.2	24.84	40	-15.16	0-360	300	H
5	35.723	37.96	Pk	23.2	-31.5	29.66	40	-10.34	0-360	100	V
6	41.349	44.17	Pk	19	-31.5	31.67	40	-8.33	0-360	100	V
7	59.294	45.96	Pk	13.5	-31.5	27.96	40	-12.04	0-360	100	V
2	85.581	35.81	Pk	13.5	-31.2	18.11	40	-21.89	0-360	300	H
8	87.424	45.55	Pk	13.6	-30.8	28.35	40	-11.65	0-360	100	V
3	145.43	36.98	Pk	18.8	-30.3	25.48	43.52	-18.04	0-360	300	H
9	170.165	39.28	Pk	17.9	-30.1	27.08	43.52	-16.44	0-360	100	V
10	218.471	41.57	Pk	16.6	-29.9	28.27	46.02	-17.75	0-360	100	V
11	892.524	30.38	Pk	28.1	-26.7	31.78	46.02	-14.24	0-360	100	V
4	916.192	28.91	Pk	28.4	-25.8	31.51	46.02	-14.51	0-360	100	H

Pk - Peak detector

5.1.2 RADIATED EMISSIONS 1,000 TO 18,000 MHz (Config 1, Mode 1)

Radiated Emissions Graph



Radiated Emissions Data Points

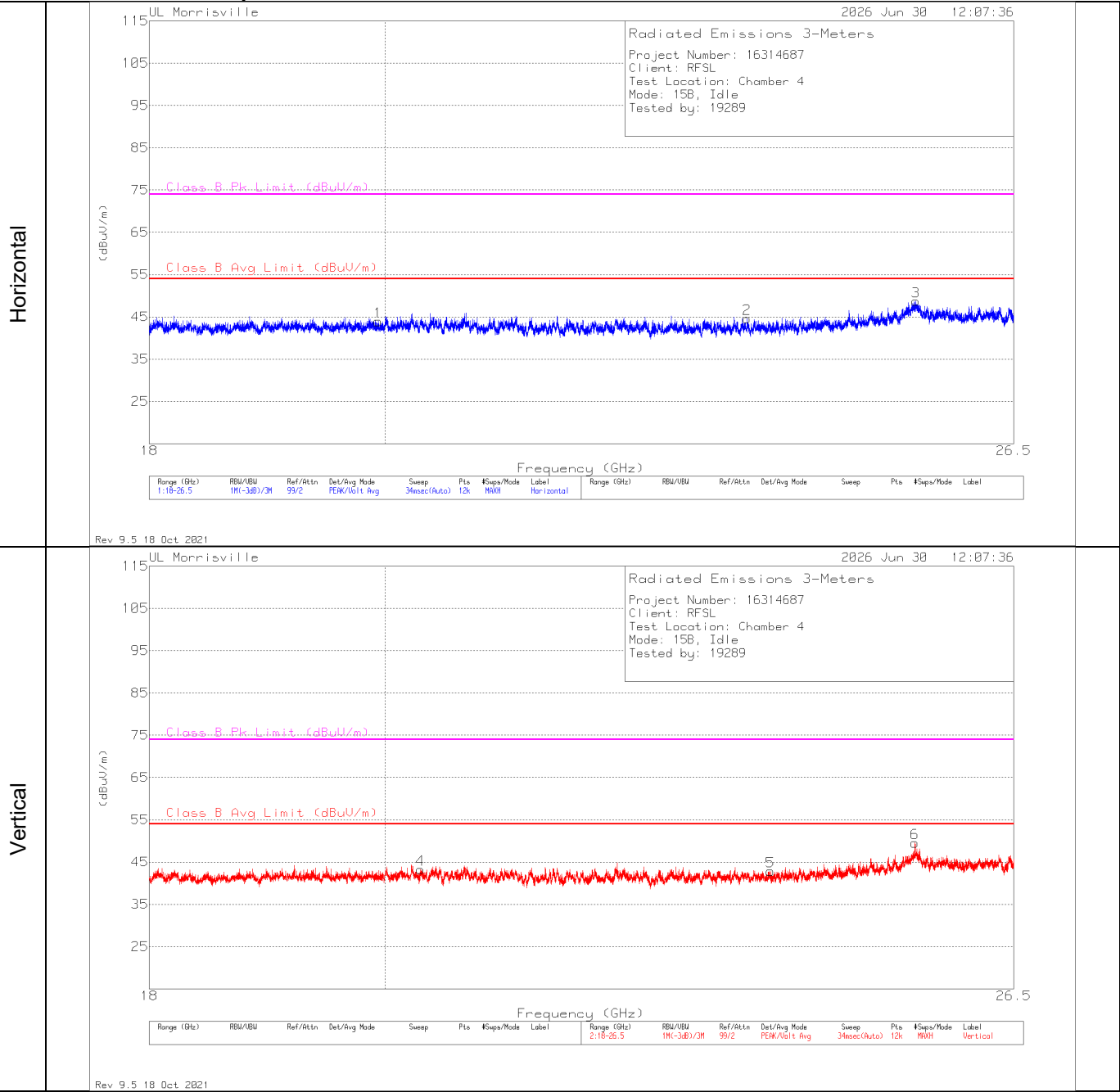
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading dBuV/m	Avg Limit (dBuV/m)	Margin (dB)	Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.00961	45.02	Pk	31.3	-35.8	40.52	54	-13.48	74	-33.48	0-360	100	H
4	2.04833	43.48	Pk	31.7	-35.7	39.48	54	-14.52	74	-34.52	0-360	200	V
5	6.56089	38.2	Pk	35.6	-28.2	45.6	54	-8.4	74	-28.4	0-360	200	V
2	6.74694	38.74	Pk	35.6	-28	46.34	54	-7.66	74	-27.66	0-360	100	H
3	9.57505	35.95	Pk	36.6	-24.8	47.75	-	-	74	-26.25	186	155	H
	9.57647	24.54	Av	36.6	-24.8	36.34	54	-17.66	-	-	186	155	H
6	10.05172	36.71	Pk	37.2	-25.2	48.71	-	-	74	-25.29	225	193	V
	10.05333	24.67	Av	37.2	-25.2	36.67	54	-17.33	-	-	225	193	V

Pk - Peak detector

Av - Average detection

5.1.3 RADIATED EMISSIONS 18,000 TO 26,000 MHz (Config 1, Mode 1)

Radiated Emissions Graph



Radiated Emissions Data Points

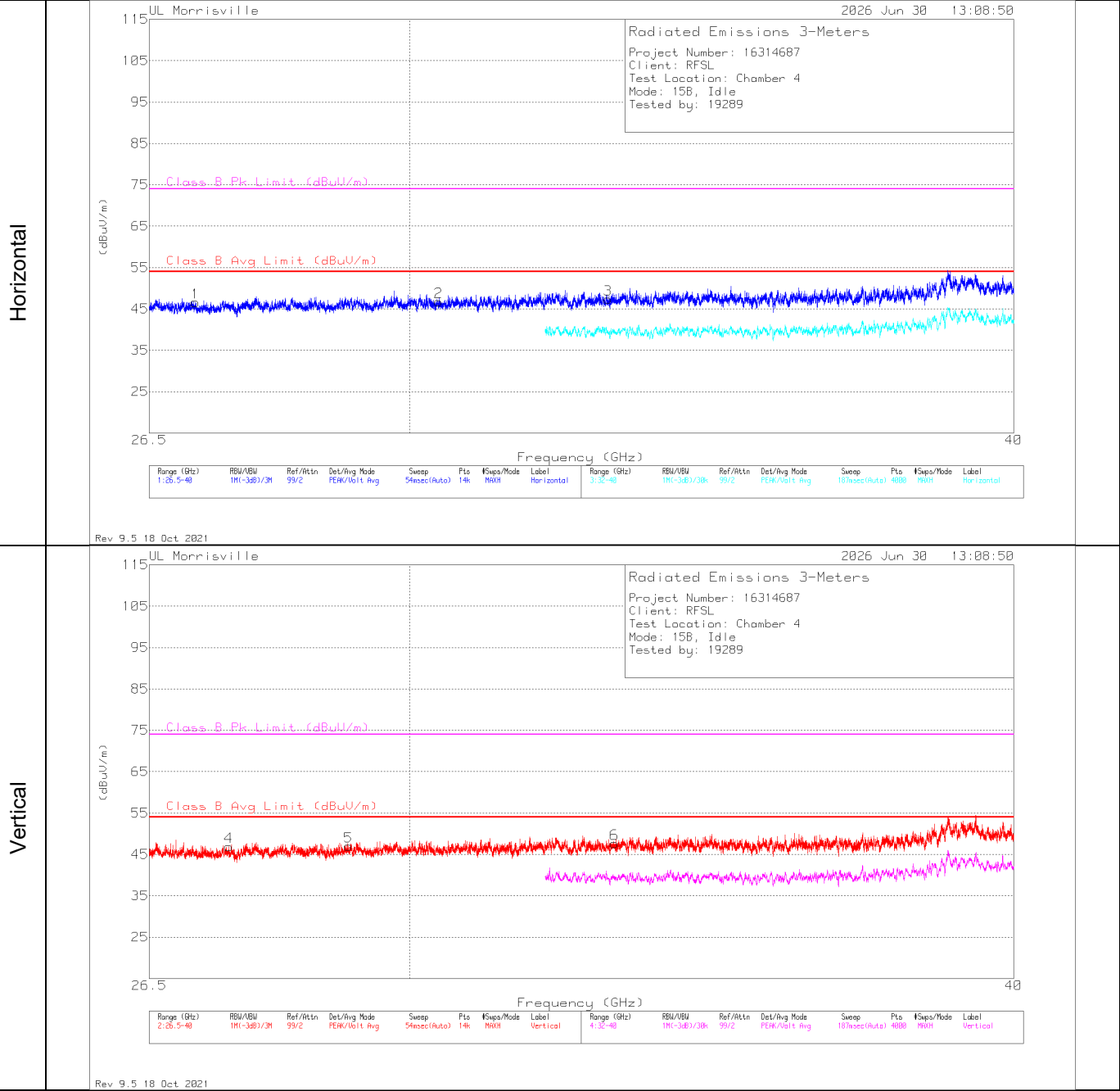
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	204704 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	19.94029	50.64	Pk	33.2	-39.9	43.94	54	-10.06	74	-30.06	0-360	250	H
4	20.32211	49.06	Pk	33.5	-39.3	43.26	54	-10.74	74	-30.74	0-360	200	V
2	23.51979	48.61	Pk	34.3	-38.3	44.61	54	-9.39	74	-29.39	0-360	250	H
5	23.76631	46.72	Pk	34.3	-38.2	42.82	54	-11.18	74	-31.18	0-360	200	V
6	25.35088	45.76	Pk	34.9	-32.3	48.36	-	-	74	-25.64	80	287	V
	25.35123	33.99	Av	34.9	-32.3	36.59	54	-17.41	-	-	80	287	V
3	25.36526	45.86	Pk	34.9	-31.7	49.06	-	-	74	-24.94	201	397	H
	25.36501	33.97	Av	34.9	-31.8	37.07	54	-16.93	-	-	201	397	H

Pk - Peak detector

Av - Average detection

5.1.4 RADIATED EMISSIONS 26,000 TO 40,000 MHz (Config 1, Mode 1)

Radiated Emissions Graph



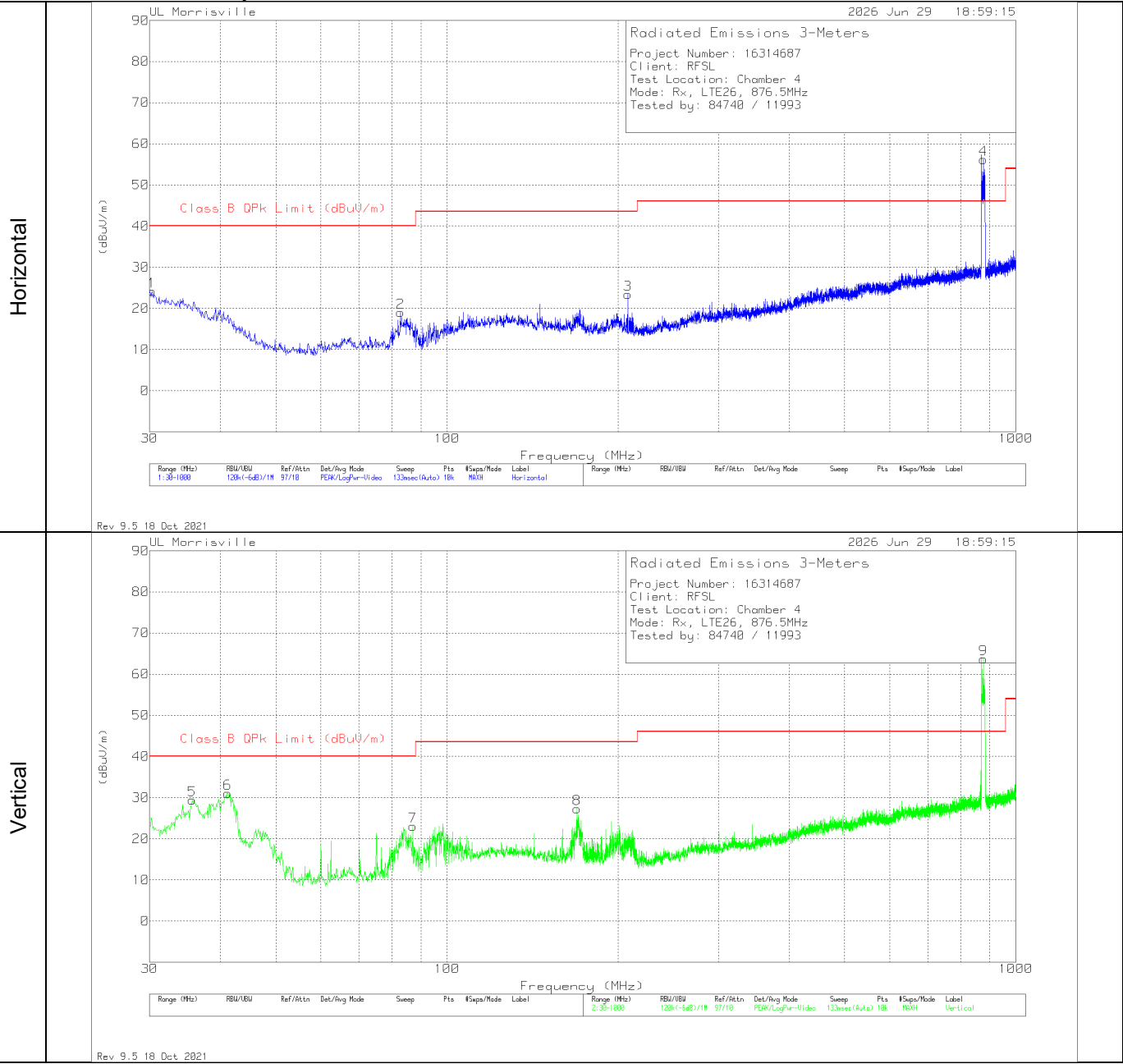
Radiated Emissions Data Points

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	204705 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	27.08729	43.57	Pk	35.7	-32.7	46.57	54	-7.43	74	-27.43	0-360	100	H
4	27.52222	43.79	Pk	35.7	-32.6	46.89	54	-7.11	74	-27.11	0-360	150	V
5	29.13558	42.27	Pk	36.1	-31.4	46.97	54	-7.03	74	-27.03	0-360	200	V
2	30.41335	41.75	Pk	36.6	-31.6	46.75	54	-7.25	74	-27.25	0-360	100	H
3	32.97082	41.24	Pk	36.9	-30.8	47.34	54	-6.66	74	-26.66	0-360	200	H
6	33.07208	41.84	Pk	36.8	-31	47.64	54	-6.36	74	-26.36	0-360	150	V

Pk - Peak detector

5.1.5 RADIATED EMISSIONS 30 TO 1000 MHz (Config 1, Mode 2)

Radiated Emissions Graph LTE B26 876.5 MHz



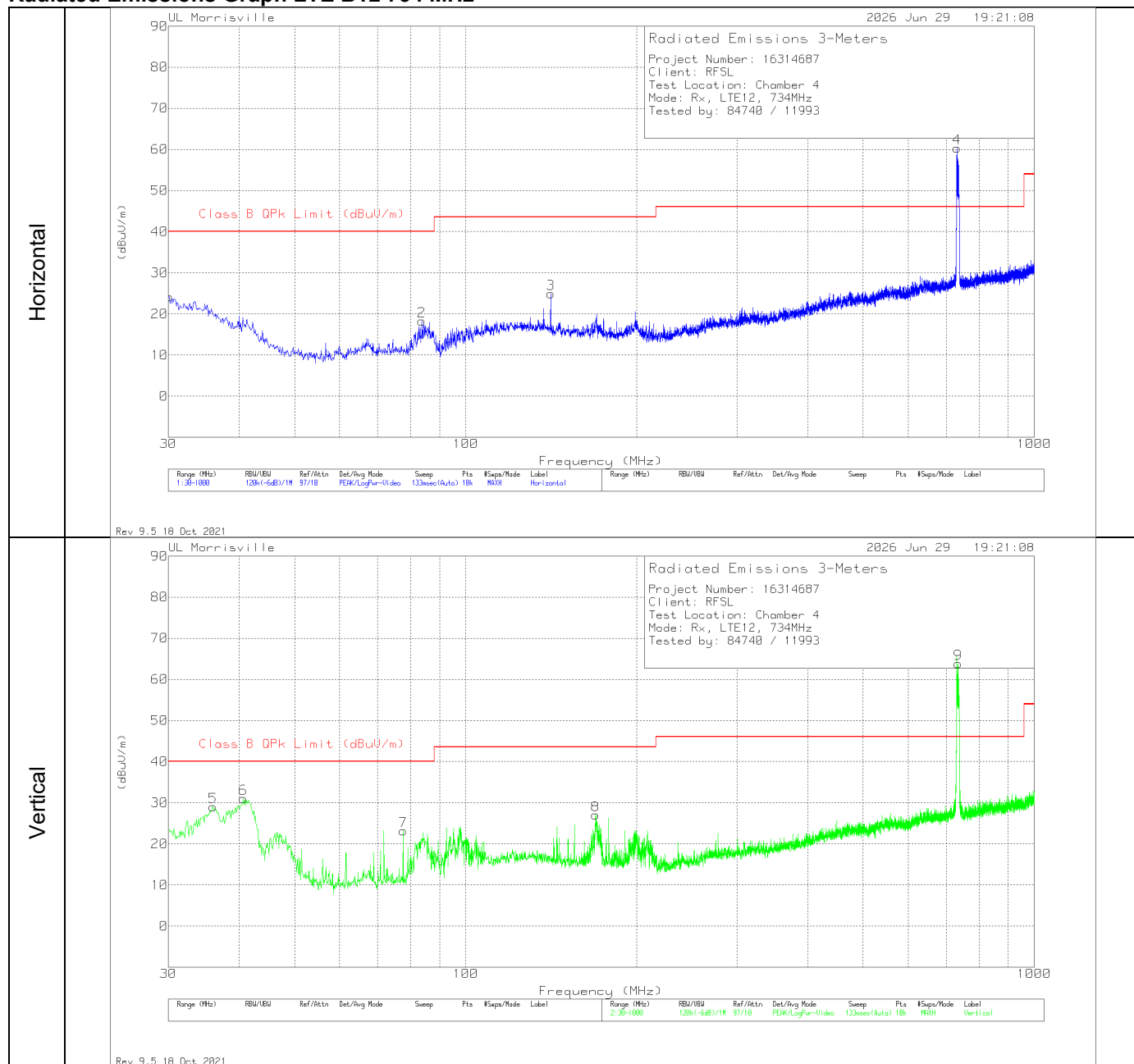
Radiated Emissions Data Points

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90628 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.291	28.69	Pk	26.7	-31.2	24.19	40	-15.81	0-360	200	H
5	35.626	37.72	Pk	23.3	-31.6	29.42	40	-10.58	0-360	100	V
6	41.155	43.5	Pk	19.1	-31.5	31.1	40	-8.9	0-360	100	V
2	82.768	36.54	Pk	13.5	-31	19.04	40	-20.96	0-360	200	H
7	87.036	40.36	Pk	13.6	-30.9	23.06	40	-16.94	0-360	100	V
8	169.195	39.44	Pk	18	-30.1	27.34	43.52	-16.18	0-360	100	V
3	207.898	37.18	Pk	16.4	-30.2	23.38	43.52	-20.14	0-360	100	H
9(DL)	876.422	62.29	Pk	28	-26.6	63.69	-	-	0-360	100	V
4(DL)	876.713	54.96	Pk	28	-26.8	56.16	-	-	0-360	100	H

Pk - Peak detector

DL - Downlink

Radiated Emissions Graph LTE B12 734 MHz



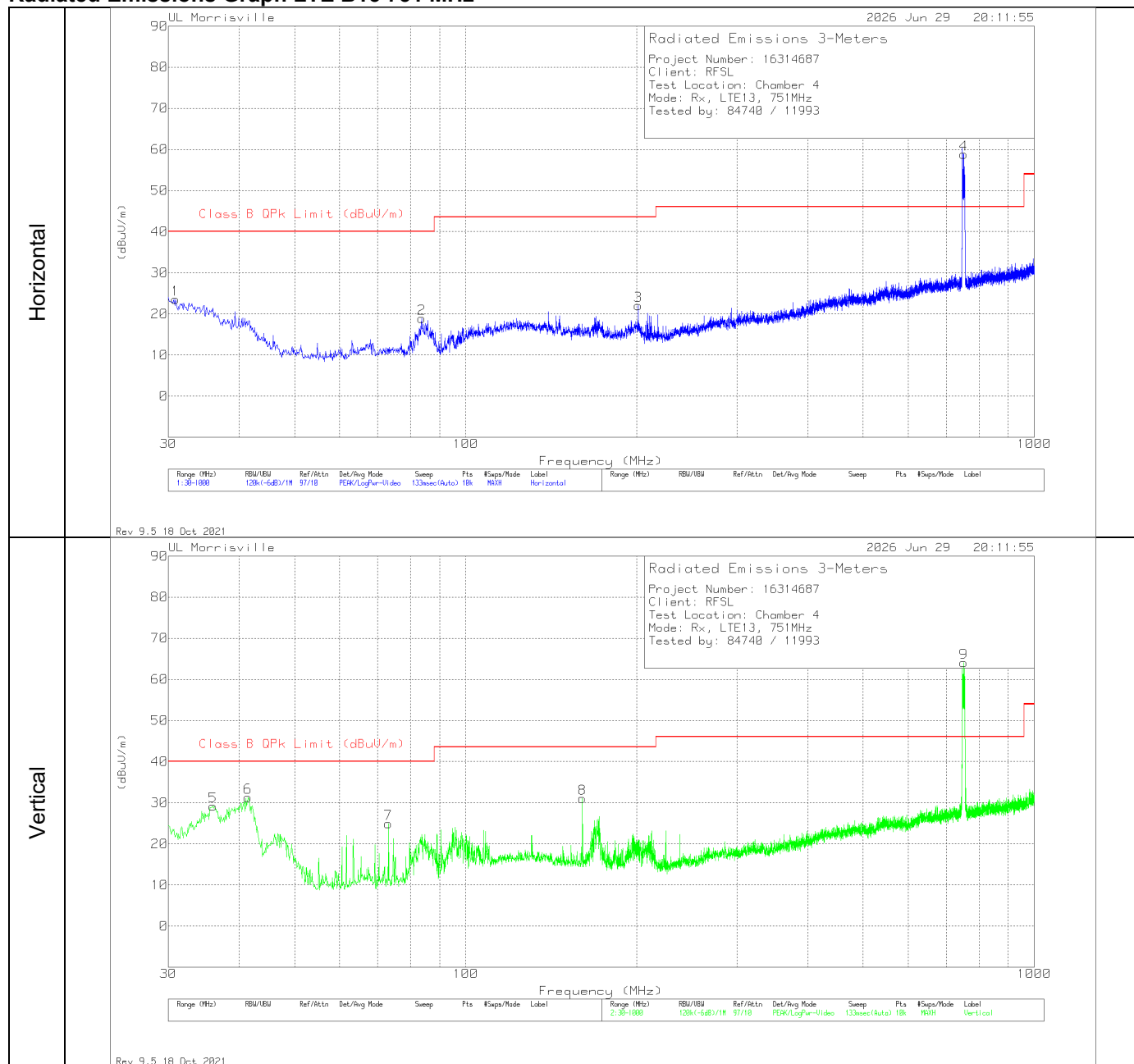
Radiated Emissions Data Points

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90628 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.097	28.53	Pk	26.8	-31.2	24.13	40	-15.87	0-360	200	H
5	35.917	37.3	Pk	23.1	-31.4	29	40	-11	0-360	100	V
6	40.67	43.1	Pk	19.5	-31.6	31	40	-9	0-360	100	V
7	77.627	40.21	Pk	14	-31	23.21	40	-16.79	0-360	200	V
2	83.738	36.04	Pk	13.5	-31.3	18.24	40	-21.76	0-360	200	H
3	141.065	36.17	Pk	19.1	-30.4	24.87	43.52	-18.65	0-360	100	H
8	169.389	39.09	Pk	18	-30.1	26.99	43.52	-16.53	0-360	100	V
4(DL)	731.795	61.2	Pk	26.7	-27.6	60.3	-	-	0-360	100	H
9(DL)	734.511	65.2	Pk	26.7	-28.1	63.8	-	-	0-360	100	V

Pk - Peak detector

DL - Downlink

Radiated Emissions Graph LTE B13 751 MHz



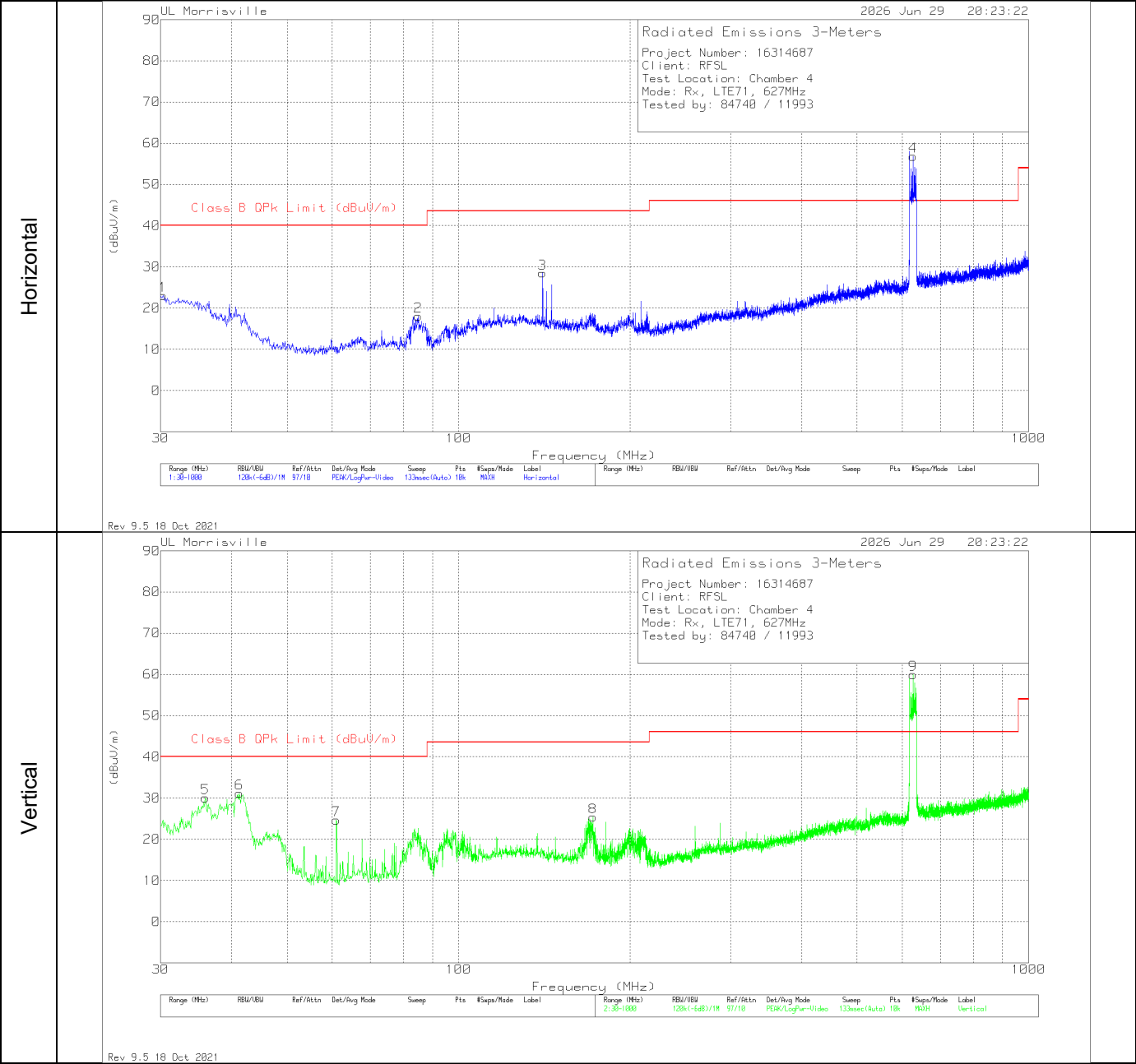
Radiated Emissions Data Points

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90628 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.873	29.47	Pk	26.2	-32.1	23.57	40	-16.43	0-360	200	H
5	35.917	37.43	Pk	23.1	-31.4	29.13	40	-10.87	0-360	100	V
6	41.446	43.9	Pk	18.9	-31.5	31.3	40	-8.7	0-360	100	V
7	73.165	41.32	Pk	14.4	-30.8	24.92	40	-15.08	0-360	100	V
2	83.641	36.72	Pk	13.5	-31.3	18.92	40	-21.08	0-360	100	H
8	160.465	43.18	Pk	18.2	-30.3	31.08	43.52	-12.44	0-360	100	V
3	201.205	33.65	Pk	18.6	-30.2	22.05	43.52	-21.47	0-360	200	H
9	751.292 (DL)	64.98	Pk	26.8	-27.7	64.08	-	-	0-360	100	V
4	751.486 (DL)	59.76	Pk	26.8	-27.7	58.86	-	-	0-360	100	H

Pk - Peak detector

DL - Downlink

Radiated Emissions Graph LTE B71 627 MHz



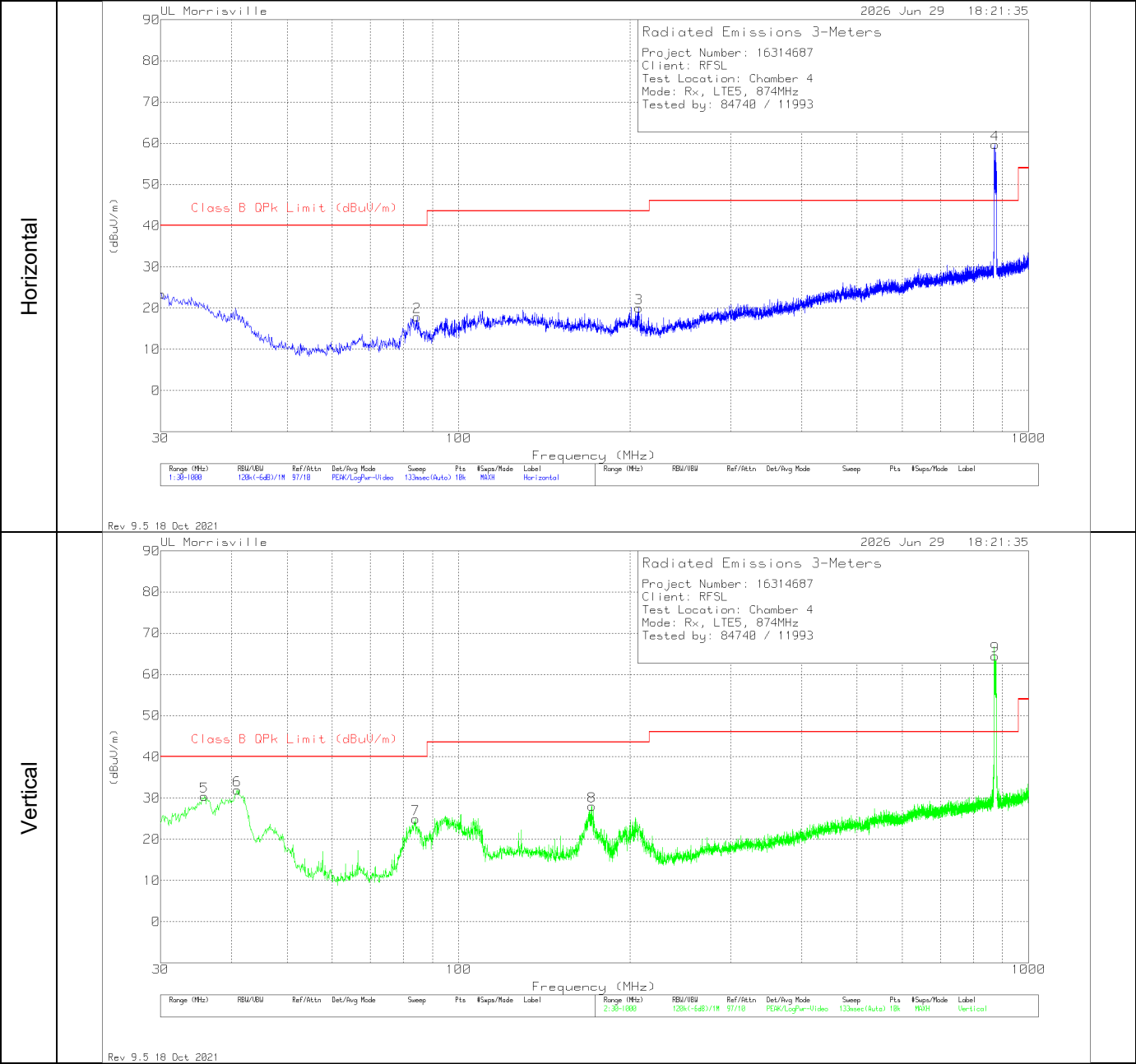
Radiated Emissions Data Points

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90628 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.291	27.58	Pk	26.7	-31.2	23.08	40	-16.92	0-360	100	H
5	35.917	38.31	Pk	23.1	-31.4	30.01	40	-9.99	0-360	100	V
6	41.252	43.7	Pk	19	-31.5	31.2	40	-8.8	0-360	100	V
7	61.04	42.81	Pk	13.7	-31.8	24.71	40	-15.29	0-360	200	V
2	84.902	35.59	Pk	13.5	-31.1	17.99	40	-22.01	0-360	100	H
3	140.386	39.68	Pk	19.2	-30.4	28.48	43.52	-15.04	0-360	100	H
8	172.202	37.56	Pk	17.7	-29.9	25.36	43.52	-18.16	0-360	100	V
9	626.647 (DL)	62.87	Pk	25.4	-28.3	59.97	-	-	0-360	100	V
4	626.744 (DL)	59.78	Pk	25.4	-28.3	56.88	-	-	0-360	100	H

Pk - Peak detector

DL - Downlink

Radiated Emissions Graph LTE B5 874 MHz



Radiated Emissions Data Points

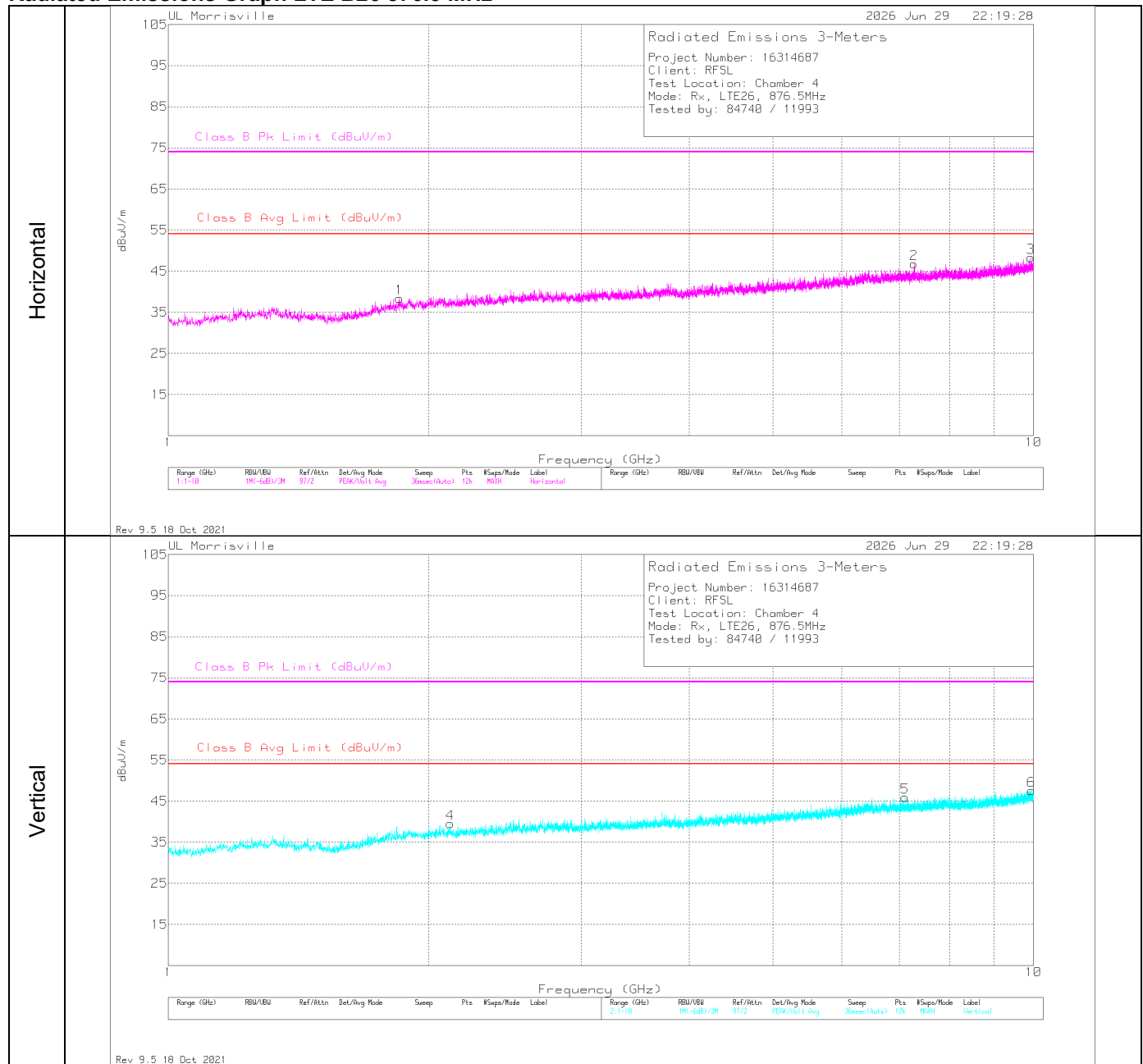
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90628 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.097	27.79	Pk	26.8	-31.2	23.39	40	-16.61	0-360	100	H
5	35.82	38.84	Pk	23.1	-31.5	30.44	40	-9.56	0-360	100	V
6	40.864	44.01	Pk	19.3	-31.4	31.91	40	-8.09	0-360	100	V
7	84.029	42.58	Pk	13.5	-31.2	24.88	40	-15.12	0-360	100	V
2	84.514	35.65	Pk	13.5	-31.2	17.95	40	-22.05	0-360	300	H
8	171.329	40.07	Pk	17.8	-29.8	28.07	43.52	-15.45	0-360	100	V
3	207.025	33.05	Pk	16.4	-29.4	20.05	43.52	-23.47	0-360	100	H
9	873.706 (DL)	62.91	Pk	28	-26.4	64.51	-	-	0-360	100	V
4	873.997 (DL)	58.46	Pk	28	-26.7	59.76	-	-	0-360	100	H

Pk - Peak detector

DL - Downlink

5.1.6 RADIATED EMISSIONS 1000 TO 10,000 MHz (Config 1, Mode 2)

Radiated Emissions Graph LTE B26 876.5 MHz



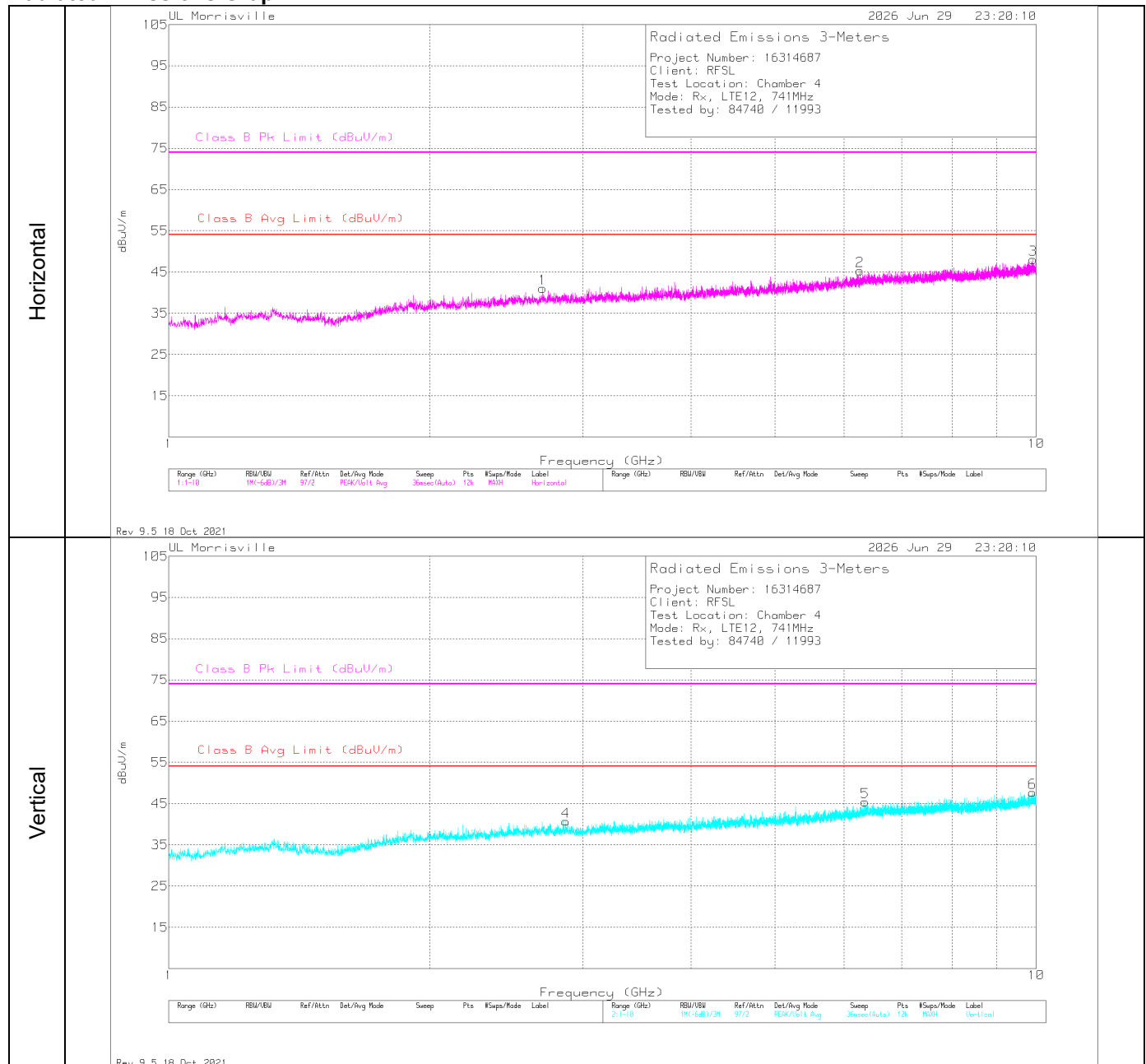
Radiated Emissions Data Points

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 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	1.849	43.25	Pk	30.9	-35.7	38.45	54	-15.55	74	-35.55	0-360	100	H
4	2.11675	43.88	Pk	31.4	-35.7	39.58	54	-14.42	74	-34.42	0-360	200	V
5	7.105	38.39	Pk	35.5	-28	45.89	54	-8.11	74	-28.11	0-360	200	V
2	7.276	38.55	Pk	35.7	-27.4	46.85	54	-7.15	74	-27.15	0-360	100	H
3	9.92948	36.83	Pk	37	-24.9	48.93	-	-	74	-25.07	72	210	H
	9.92812	24.62	Av	37	-24.9	36.72	54	-17.28	-	-	72	210	H
6	9.93925	35.87	Pk	37	-25.3	47.57	54	-6.43	74	-26.43	0-360	200	V

Pk - Peak detector

Av - Average detection

Radiated Emissions Graph LTE B12 741 MHz



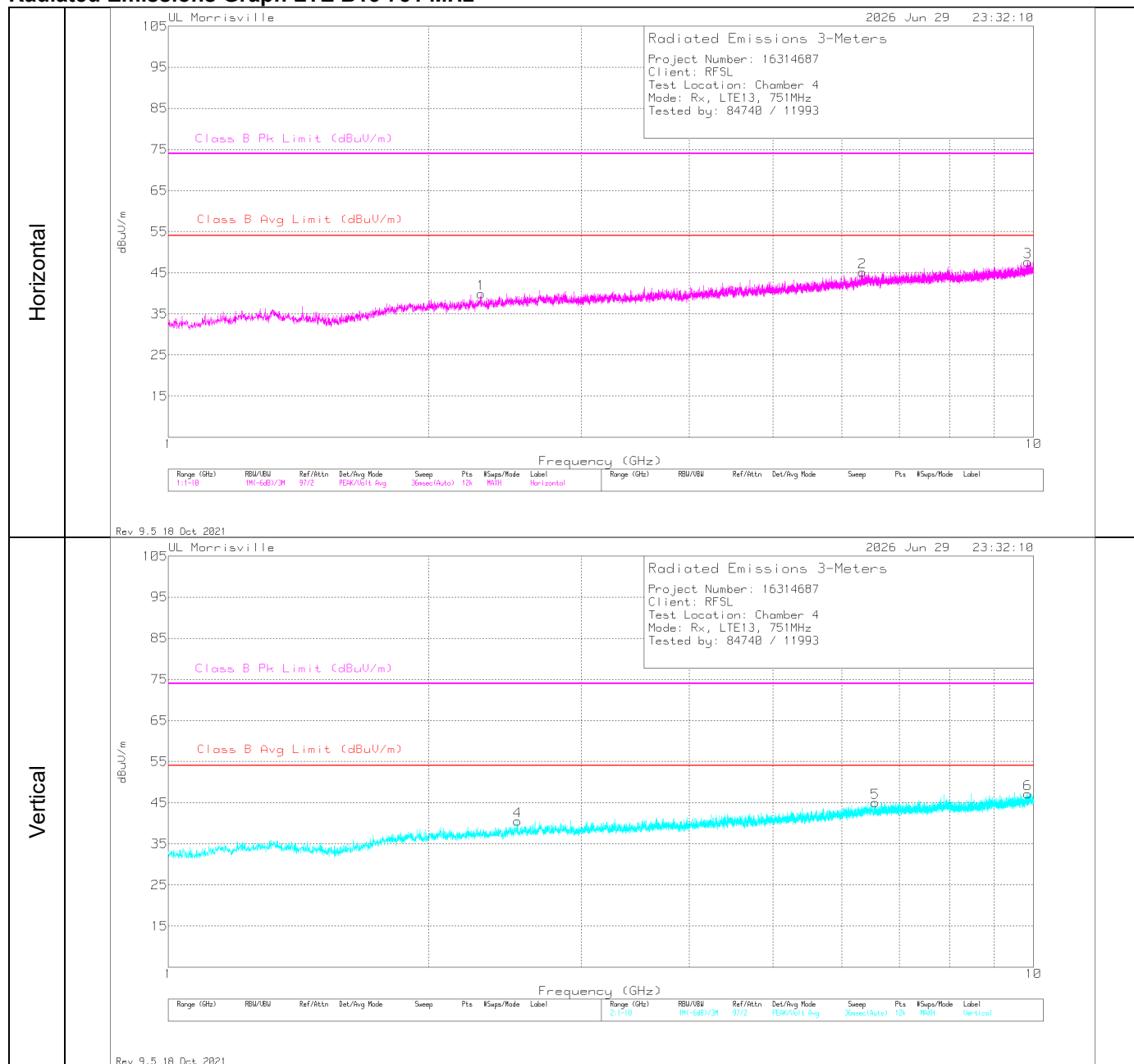
Radiated Emissions Data Points

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 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	2.69725	43.56	Pk	32.6	-35.1	41.06	54	-12.94	74	-32.94	0-360	100	H
4	2.8675	43.12	Pk	32.7	-35.1	40.72	54	-13.28	74	-33.28	0-360	200	V
2	6.268	38.54	Pk	35.4	-28.6	45.34	54	-8.66	74	-28.66	0-360	100	H
5	6.35275	38.35	Pk	35.6	-28.5	45.45	54	-8.55	74	-28.55	0-360	200	V
6	9.89875	35.63	Pk	37	-24.9	47.73	54	-6.27	74	-26.27	0-360	200	V
3	9.91441	36.17	Pk	37	-25	48.17	-	-	74	-25.83	168	199	H
	9.91397	24.8	Av	37	-25	36.8	54	-17.2	-	-	168	199	H

Pk - Peak detector

Av - Average detection

Radiated Emissions Graph LTE B13 751 MHz

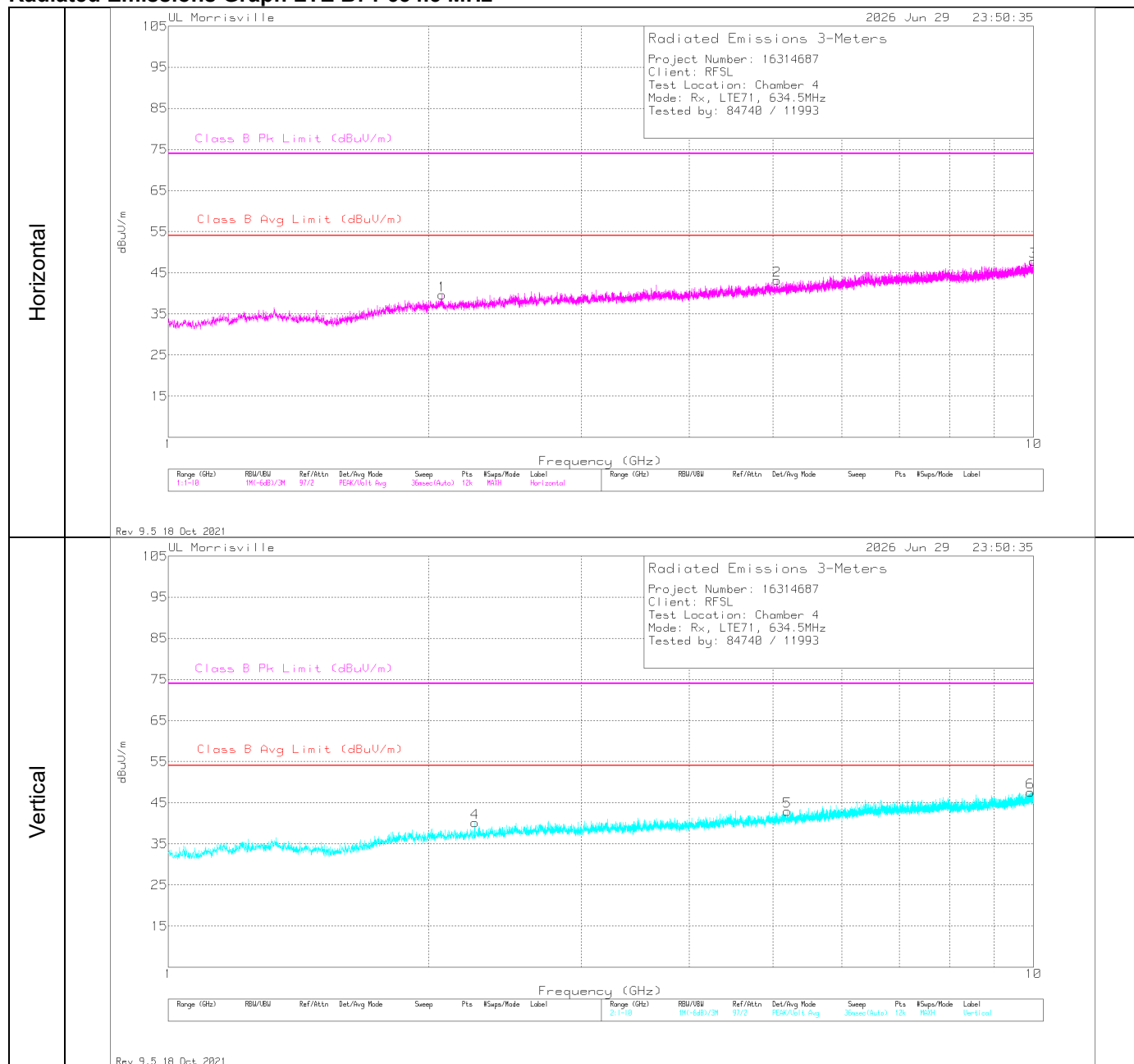


Radiated Emissions Data Points

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 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	2.299	43.8	Pk	31.7	-35.6	39.9	54	-14.1	74	-34.1	0-360	100	H
4	2.53225	43.58	Pk	32.6	-35.6	40.58	54	-13.42	74	-33.42	0-360	200	V
2	6.34225	38.31	Pk	35.6	-28.7	45.21	54	-8.79	74	-28.79	0-360	100	H
5	6.5605	37.67	Pk	35.6	-28.2	45.07	54	-8.93	74	-28.93	0-360	200	V
6	9.84475	35.68	Pk	36.9	-25.4	47.18	54	-6.82	74	-26.82	0-360	200	V
3	9.84775	36.17	Pk	36.9	-25.4	47.67	54	-6.33	74	-26.33	0-360	100	H

Pk - Peak detector

Radiated Emissions Graph LTE B71 634.5 MHz

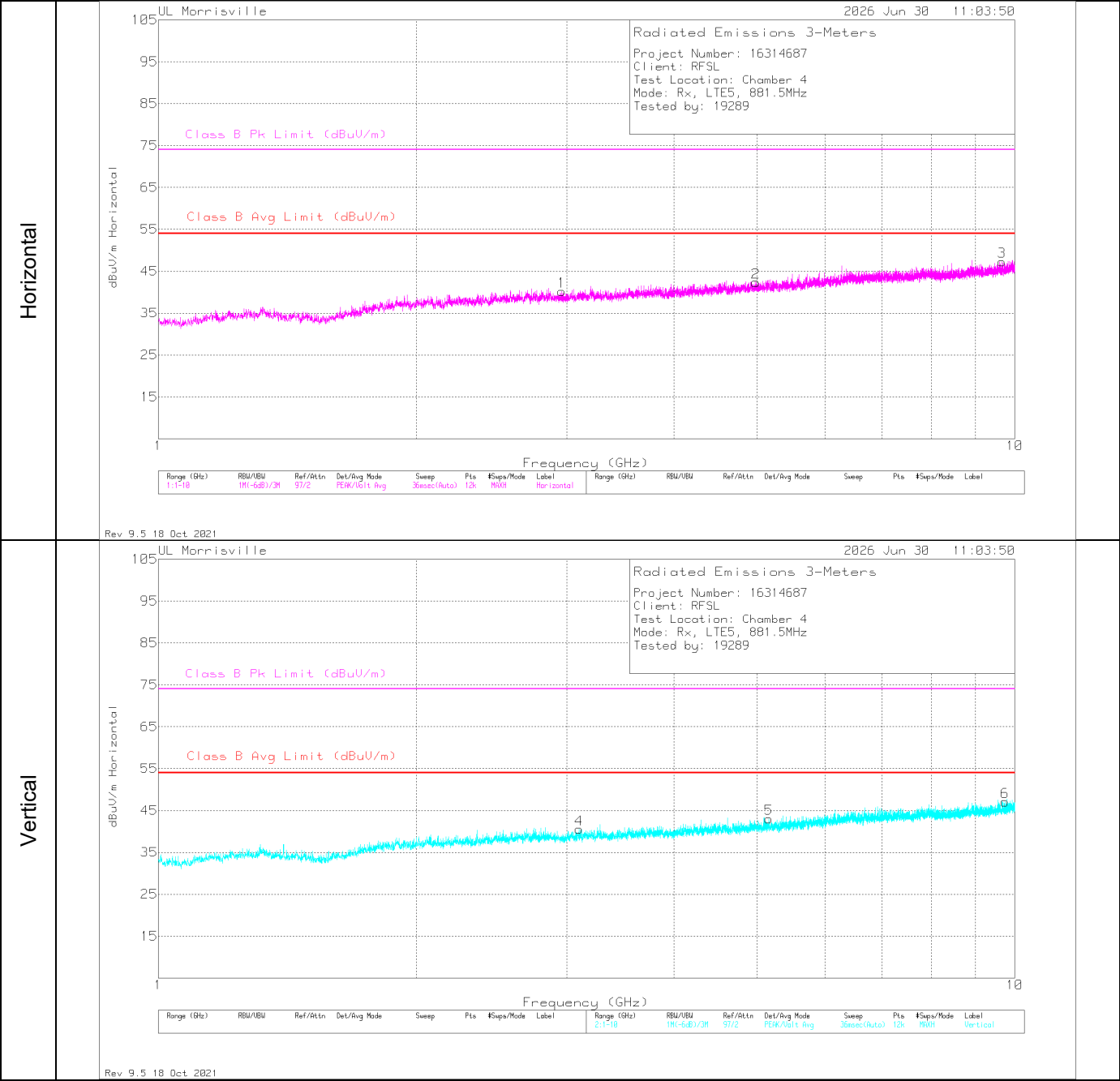


Radiated Emissions Data Points

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 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	2.07175	43.6	Pk	31.7	-35.7	39.6	54	-14.4	74	-34.4	0-360	100	H
4	2.26075	44.31	Pk	31.6	-35.7	40.21	54	-13.79	74	-33.79	0-360	200	V
2	5.05525	40.29	Pk	34.2	-31.3	43.19	54	-10.81	74	-30.81	0-360	100	H
5	5.19625	39.97	Pk	34.3	-31.3	42.97	54	-11.03	74	-31.03	0-360	200	V
6	9.916	35.45	Pk	37	-24.9	47.55	54	-6.45	74	-26.45	0-360	200	V
3	9.99925	36.01	Pk	37.1	-25.3	47.81	54	-6.19	74	-26.19	0-360	100	H

Pk - Peak detector

Radiated Emissions Graph LTE B5 881.5 MHz



Radiated Emissions Data Points

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 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	2.95975	42.81	Pk	32.2	-34.8	40.21	54	-13.79	74	-33.79	0-360	100	H
4	3.0985	42.74	Pk	32.8	-35	40.54	54	-13.46	74	-33.46	0-360	200	V
2	4.98475	39.84	Pk	34.1	-31.6	42.34	54	-11.66	74	-31.66	0-360	100	H
5	5.16475	39.54	Pk	34.3	-30.8	43.04	54	-10.96	74	-30.96	0-360	200	V
3	9.66175	35.6	Pk	36.6	-24.9	47.3	54	-6.7	74	-26.7	0-360	100	H
6	9.742	35.78	Pk	36.8	-25.5	47.08	54	-6.92	74	-26.92	0-360	200	V

Pk - Peak detector

Appendix A**Facilities, Accreditations and Authorizations**

UL LLC is accredited by A2LA, Certificate Number 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 Durham, NC 27713, U.S.A	US0067	2180C	825374
☒	Building: 2800 Perimeter Park Drive, Suite B, Morrisville, NC, 27560		27265	

6.0 SETUP PHOTOS

Refer to R16314687-EP1 for Setup Photos and Setup Diagrams.

END OF TEST REPORT