



# TEST REPORT

**Report Number. :** 13708019-E2V2

**Applicant :** Samsung Electronics Co., Ltd.  
129 Samsung-Ro, Yeongtong-Gu  
Suwon-Si, Gyeonggi-Do, 16677, Korea

**Model :** SM-M127G/DS

**FCC ID :** A3LSMM127G

**EUT Description :** GSM/WCDMA/LTE Phablet with BT/BLE and DTS b/g/n

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

**Date Of Issue:**

March 19, 2021

**Prepared by:**

UL VERIFICATION SERVICES

47173 Benicia Street

Fremont, CA 94538 U.S.A.

TEL: (510) 319-4000

FAX: (510) 661-0888



NVLAP Lab code: 200065-0

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## REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	3/8/2021	Initial Issue	
V2	3/19/2021	Updated Section 9.1	Kiya Kedida

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# 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** Samsung Electronics Co., Ltd.  
129 Samsung-Ro, Yeongtong-Gu  
Suwon-Si, Gyeonggi-Do, 16677, Korea

**EUT DESCRIPTION:** GSM/WCDMA/LTE Phablet with BT/BLE and DTS b/g/n

**MODEL:** SM-M127G/DS

**SERIAL NUMBER:** Radiated: R38NB0188ZF  
Conducted: R38NB01863H

**DATE TESTED:** FEBRUARY 17 – MARCH 19, 2021

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

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

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

This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of the U.S. government.

Approved & Released For  
UL Verification Services Inc. By:

Prepared By:



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Dan Corona  
Operations Leader  
Consumer Technology Division  
UL Verification Services Inc.



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Brian Shen  
Laboratory Engineer  
Consumer Technology Division  
UL Verification Services Inc.

Reviewed By:



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Kiya Kedida  
Senior Project Engineer  
Consumer Technology Division  
UL Verification Services Inc.

## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2013, KDB 558074 D01 15.247 Meas Guidance v05, KDB 414788 D01 Radiated Test Site v01r01.

## 3. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0, 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
<input type="checkbox"/>	Building 1: 47173 Benicia Street Fremont, CA 94538, U.S.A	US0104	2324A	208313
<input type="checkbox"/>	Building 2: 47266 Benicia Street Fremont, CA 94538, U.S.A	US0104	22541	208313
<input checked="" type="checkbox"/>	Building 4: 47658 Kato Rd Fremont, CA 94538, U.S.A	US0104	2324B	208313

## 4. DECISION RULES AND MEASUREMENT UNCERTAINTY

### 4.1. 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.

### 4.2. 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.)

### 4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	U <sub>Lab</sub>
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.84 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	4.84 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 dB

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

### 4.4. SAMPLE CALCULATION

#### RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

$$\text{Field Strength (dBuV/m)} = \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} - \text{Preamp Gain (dB)}$$

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

#### MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

$$\text{Final Voltage (dBuV)} = \text{Measured Voltage (dBuV)} + \text{Cable Loss (dB)} + \text{Limiter Factor (dB)} + \text{LISN Insertion Loss.}$$

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

## 5. EQUIPMENT UNDER TEST

### 5.1. EUT DESCRIPTION

The EUT is a GSM/WCDMA/LTE Phablet with BT/BLE and DTS b/g/n.

## 6. TEST AND MEASUREMENT EQUIPMENT

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

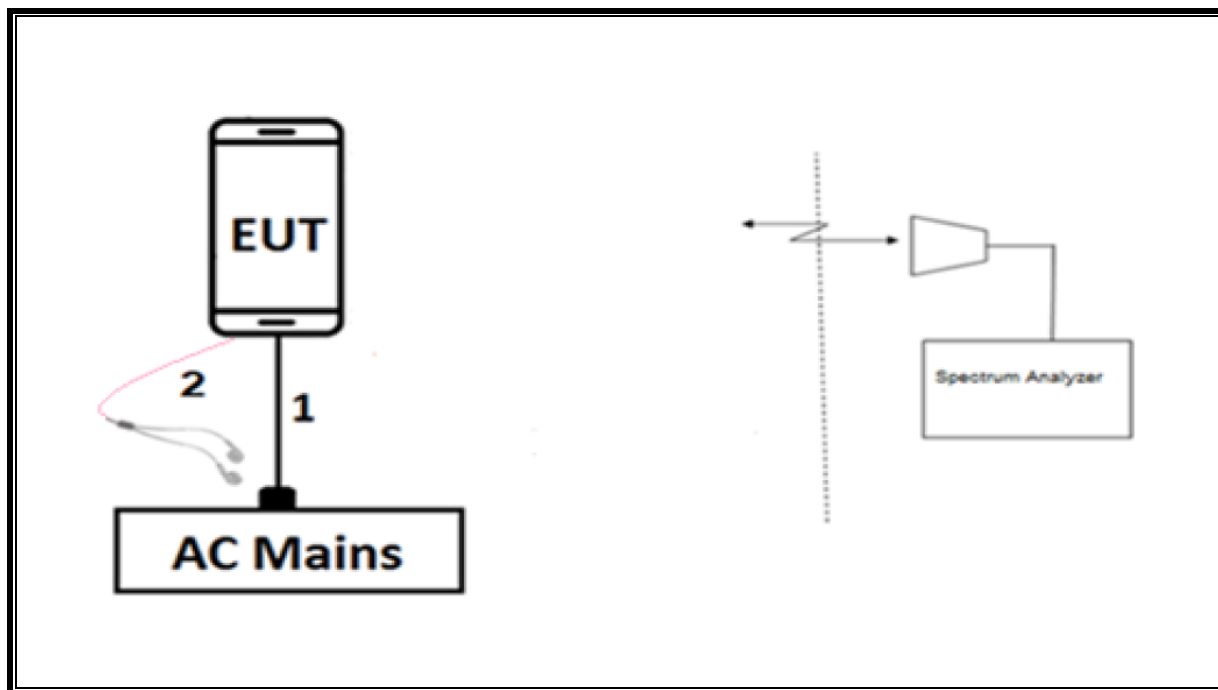
TEST EQUIPMENT LIST					
Description	Manufacturer	Model	ID Num	Cal Due	Last Cal
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	PRE0179522	2/19/2022	2/19/2021
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	PRE0100034	9/15/2021	9/15/2020
Amplifier, 1 to 18GHz, 35dB	AMPLICAL	AMP1G18-35	T1571	8/20/2021	8/20/2020
Power Sensor P - series, 50MHz to 18GHz, Wideband	Keysight Technologies Inc	N1921A	T413	2/26/2021	2/26/2020
Power Meter, P-series single channel	Keysight Technologies Inc	N1911A	T1269	1/25/2022	1/25/2021
Test Software List					
Description	Manufacturer	Model	Version		
Radiated Software	UL	UL EMC	Rev 9.5, April 30, 2020		



## 7. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT						
Description	Manufacturer	Model	Serial Number	FCC ID/ DoC		
AC Adapter	Samsung	EP-TA200	R37M3FL1XN1DK3	N/A		
Earphone	Samsung	N/A	N/A	N/A		
I/O CABLES (RF RADIATED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	USB	1	AC Adapter	Shielded	1	N/A
2	Earphone	1	3.5mm	Un-Shielded	1	N/A

### RADIATED SETUP



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## 8. REUSE OF TEST DATA

### 8.1. INTRODUCTION

According to the manufacturer, FCC ID: A3LSMM127F and FCC ID: A3LSMM127G unlicensed radios (WLAN/BT/BLE) are electrically identical. They share the same chipset, same power and same antenna performance including antenna gain. The FCC ID: A3LSMM127F test data shall remain representative of FCC ID: A3LSMM127G so, FCC ID: A3LSMM127G leverages test data from A3LSMM127F.

The applicant takes full responsibility that the test data as referenced in this section represent compliance for this FCC ID.

### 8.2. DEVICE DIFFERENCES

1. H/W
  - WCDMA band W2/4 are deleted.
  - LTE band W2/412/17/20/26/28/66 are deleted.
2. S/W
  - SW was updated to reflect the HW changes.

### 8.3. SPOT CHECK VERIFICATION RESULTS SUMMARY

Spot check verification has been done on device A3LSMM127G for radiated harmonic spurious and radiated band-edge. The data from the application has been verified through appropriate spot checks to demonstrate compliance for this device as shown in the summary and Appendix A.

### 8.4. REFERENCE DETAIL

Equipment Class	Reference FCC ID	Report Title/Section
DSS (BT)	A3LSMM127F	R13548896-E2 v2 FCC FHSS REPORT

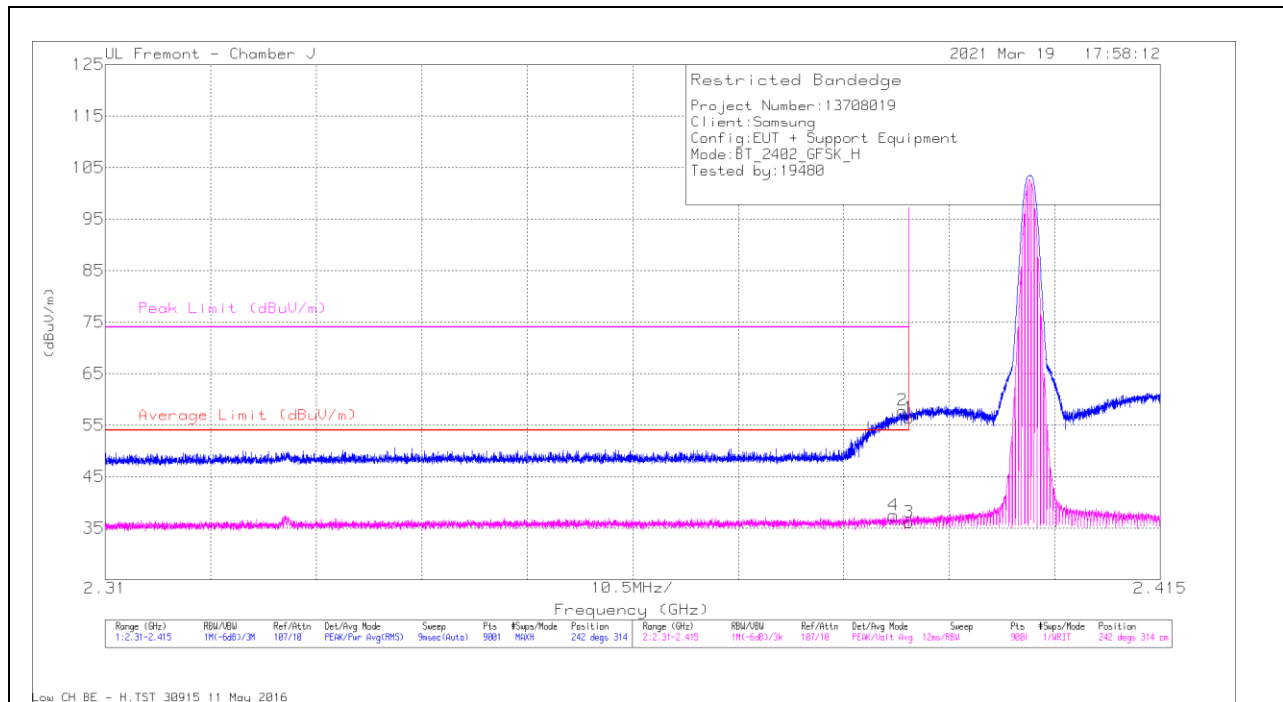
## 9. SPOT CHECK DATA

### 9.1. TRANSMITTER ABOVE 1 GHz

#### 9.1.1. BLUETOOTH BASIC DATA RATE GFSK MODULATION

#### BANDEDGE (LOW CHANNEL)

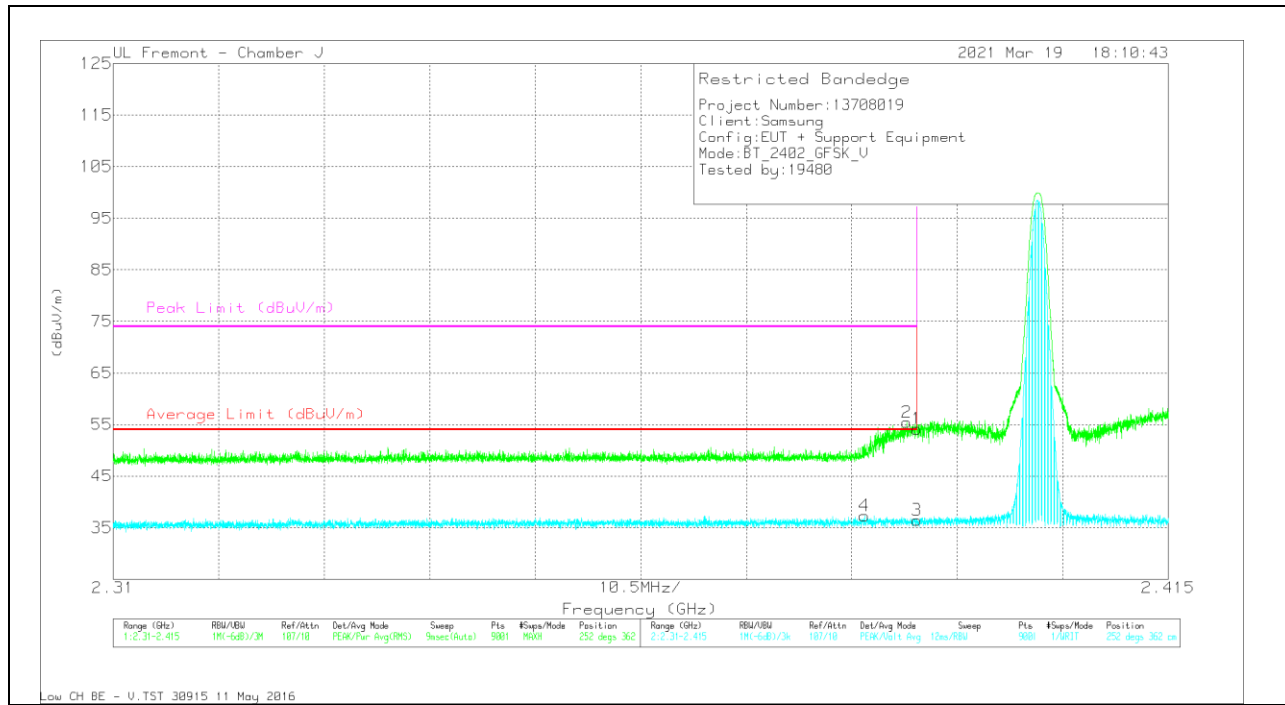
#### HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0100034 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	49.47	Pk	32.1	-25.2	56.37	-	-	74	-17.63	242	314	H
2	* 2.38935	50.97	Pk	32.1	-25.2	57.87	-	-	74	-16.13	242	314	H
3	* 2.38999	29.29	VA1T	32.1	-25.2	36.19	54	-17.81	-	-	242	314	H
4	* 2.38845	30.63	VA1T	32.1	-25.2	37.53	54	-16.47	-	-	242	314	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

### VERTICAL RESULT

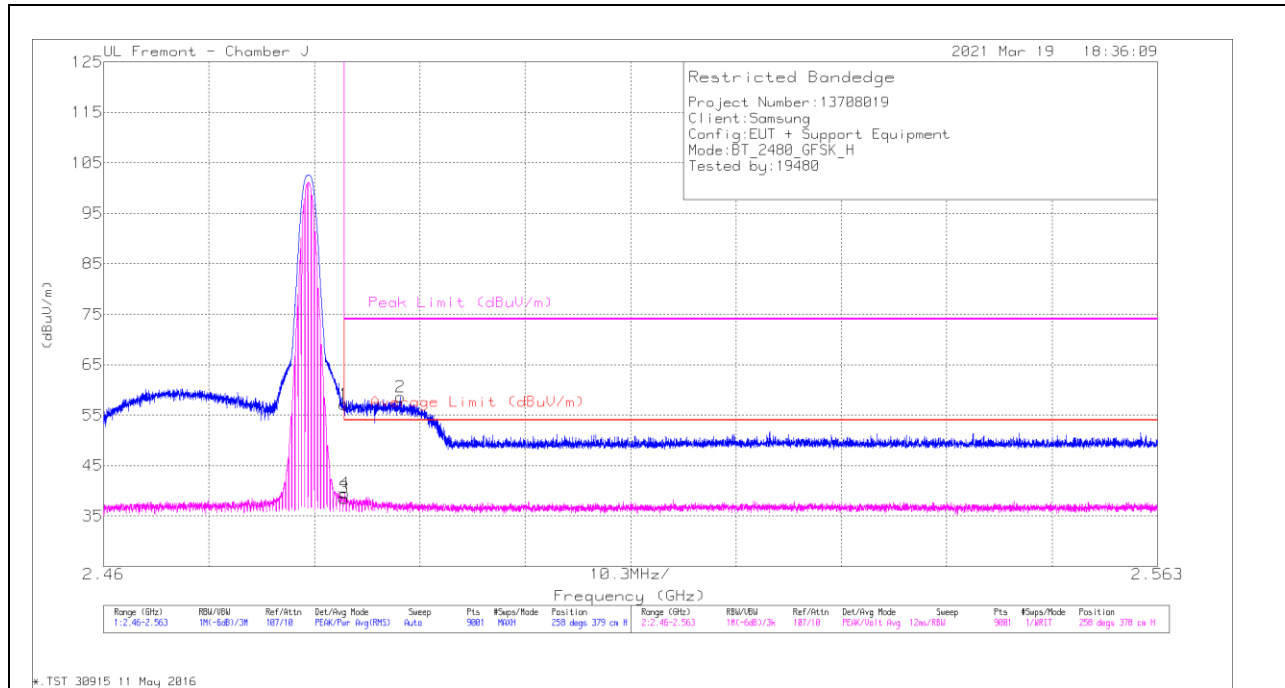


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0100034 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	47.26	Pk	32.1	-25.2	54.16	-	-	74	-19.84	252	362	V
2	* 2.389	48.52	Pk	32.1	-25.2	55.42	-	-	74	-18.58	252	362	V
3	* 2.38999	29.54	VA1T	32.1	-25.2	36.44	54	-17.56	-	-	252	362	V
4	* 2.38476	30.39	VA1T	32.1	-25.2	37.29	54	-16.71	-	-	252	362	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

**BANDEDGE (HIGH CHANNEL)**

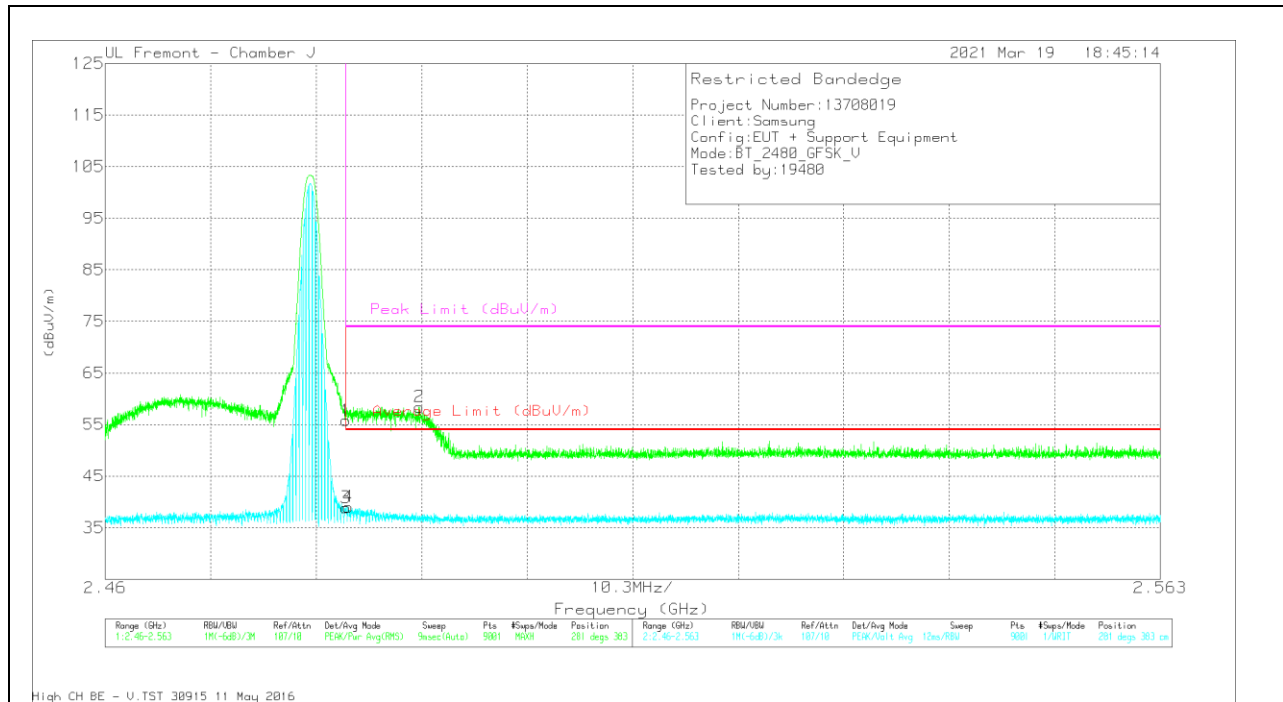
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0100034 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	49.77	Pk	32.5	-25.2	57.07	-	-	74	-16.93	258	379	H
2	* 2.48902	51.33	Pk	32.5	-25.2	58.63	-	-	74	-15.37	258	379	H
3	* 2.48351	31.26	VA1T	32.5	-25.2	38.56	54	-15.44	-	-	258	378	H
4	* 2.48355	32.21	VA1T	32.5	-25.2	39.51	54	-14.49	-	-	258	378	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

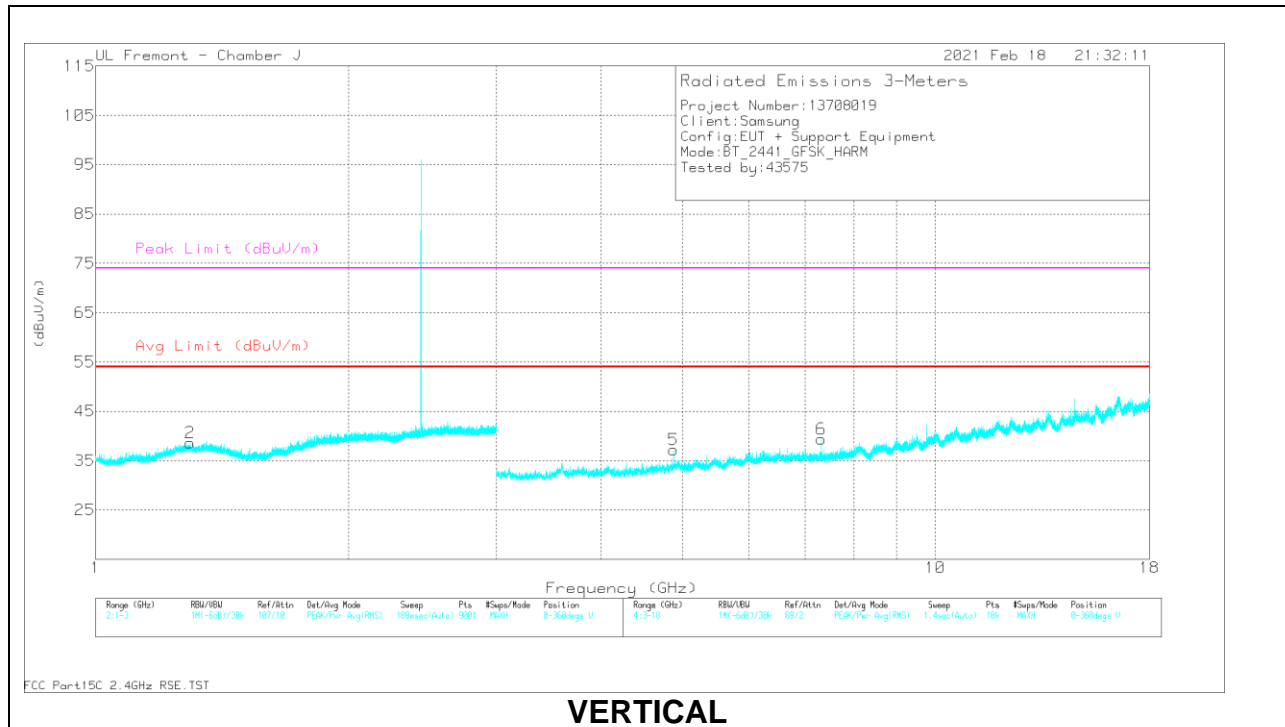
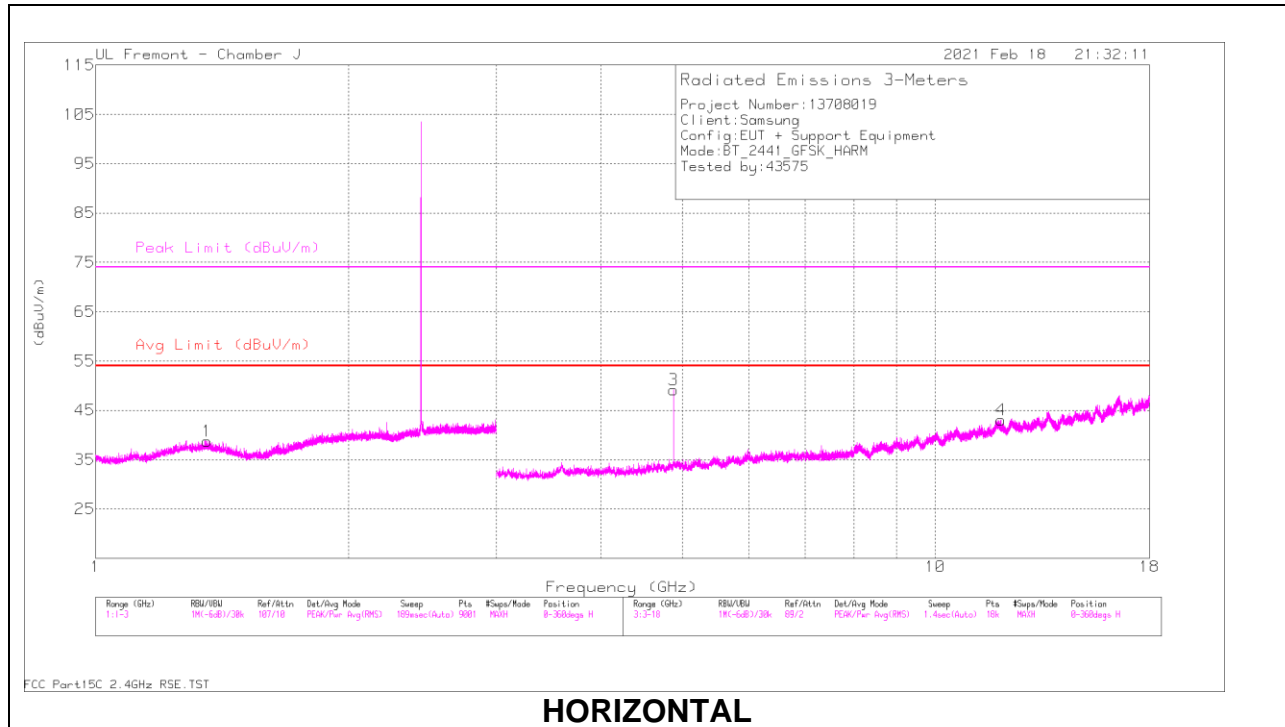
### VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0100034 (dB/m)	Amp/Cb/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	48.5	Pk	32.5	-25.2	55.8	-	-	74	-18.2	281	383	V
2	* 2.49066	51.11	Pk	32.5	-25.2	58.41	-	-	74	-15.59	281	383	V
3	* 2.48351	31.6	VA1T	32.5	-25.2	38.9	54	-15.1	-	-	281	383	V
4	* 2.48375	31.75	VA1T	32.5	-25.2	39.05	54	-14.95	-	-	281	383	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

### MID CHANNEL RESULTS



**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0100034 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.35662	42.18	PKFH	29.8	-25.6	46.38	-	-	74	-27.62	23	101	H
	* 1.35813	29.51	VA1T	29.8	-25.6	33.71	54	-20.29	-	-	23	101	H
2	* 1.29728	42.23	PKFH	29.4	-25.6	46.03	-	-	74	-27.97	34	115	V
	* 1.29544	29.52	VA1T	29.5	-25.6	33.42	54	-20.58	-	-	34	115	V
3	* 4.88185	39.14	PKFH	34.3	-30.6	42.84	-	-	74	-31.16	33	101	H
	* 4.8831	26.2	VA1T	34.3	-30.6	29.9	54	-24.1	-	-	33	101	H
4	* 11.97357	33.27	PKFH	39	-21.5	50.77	-	-	74	-23.23	247	380	H
	* 11.97725	19.84	VA1T	39	-21.6	37.24	54	-16.76	-	-	247	380	H
5	* 4.88216	38.97	PKFH	34.3	-30.6	42.67	-	-	74	-31.33	218	128	V
	* 4.88227	26.96	VA1T	34.3	-30.6	30.66	54	-23.34	-	-	218	128	V
6	* 7.32361	36.61	PKFH	35.9	-26.7	45.81	-	-	74	-28.19	170	109	V
	* 7.32319	26.37	VA1T	35.9	-26.7	35.57	54	-18.43	-	-	170	109	V

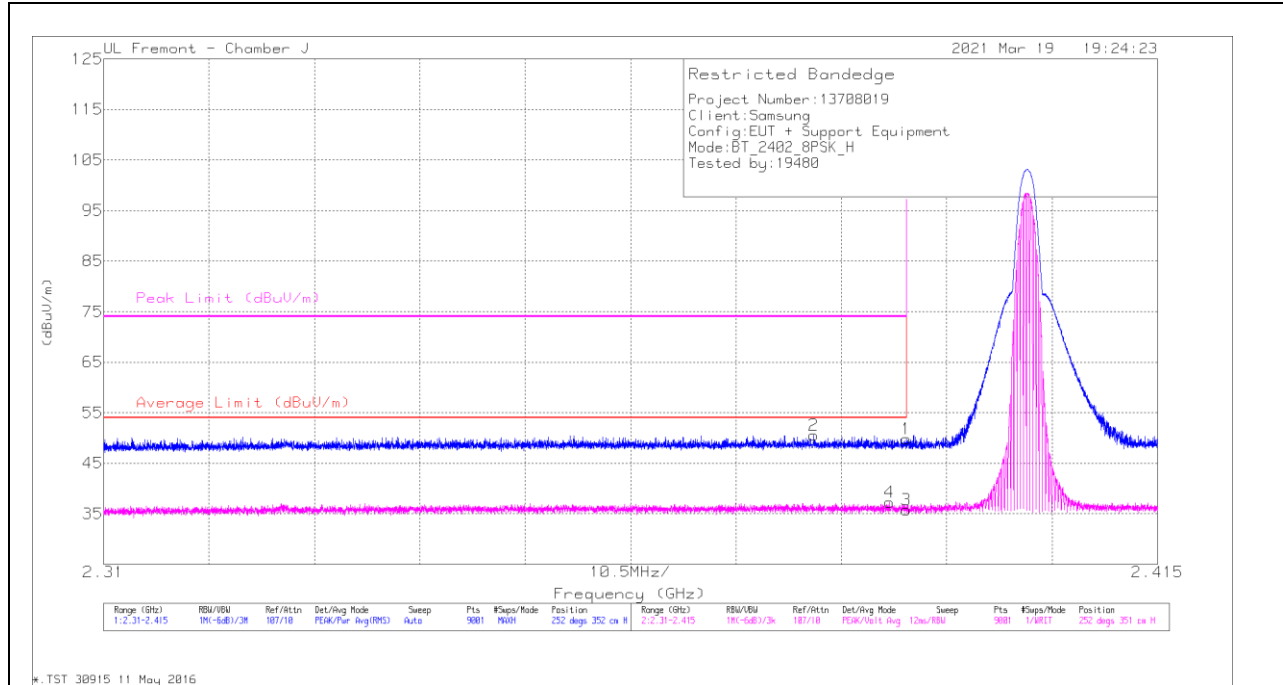
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak  
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration



## 9.1.2. BLUETOOTH ENHANCED DATA RATE 8PSK MODULATION

### BANDEDGE (LOW CHANNEL)

### HORIZONTAL RESULT



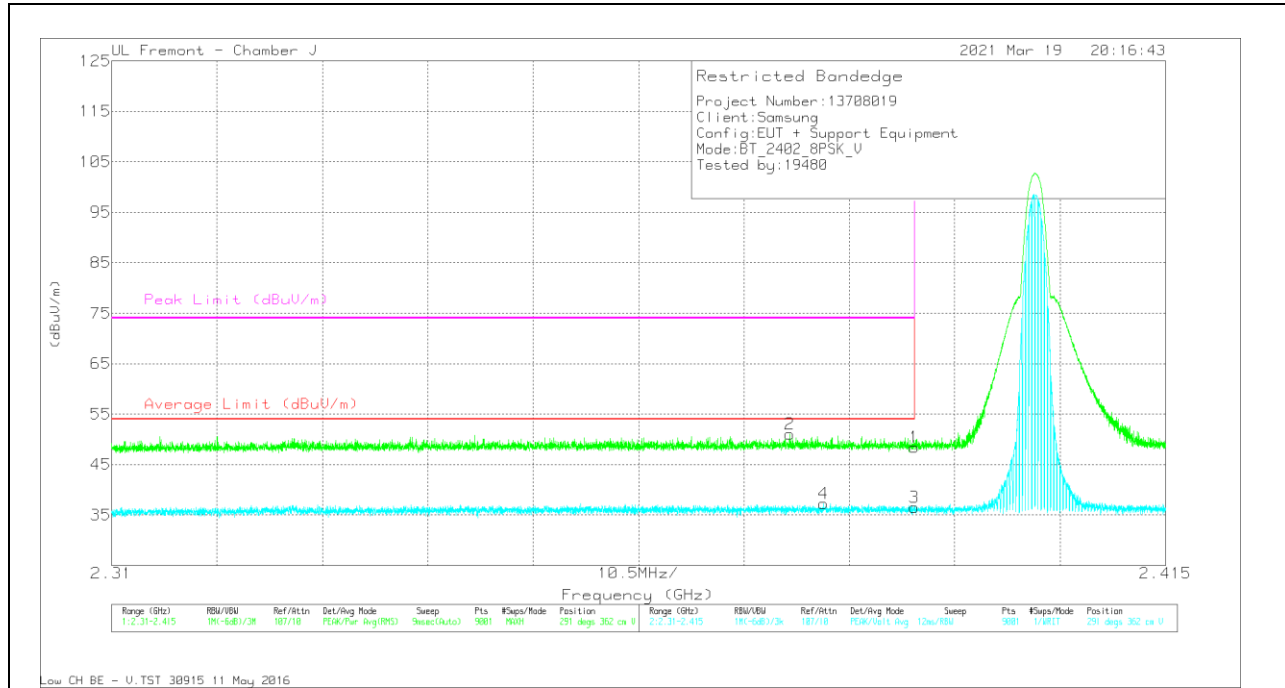
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0100034 (dB/m)	Amp/Cb/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*	42.86	Pk	32.1	-25.2	49.76	-	-	74	-24.24	252	352	H
2	2.38999	43.64	Pk	32.1	-25.2	50.54	-	-	74	-23.46	252	352	H
3	2.38075	28.87	VA1	32.1	-25.2	35.77	54	-18.23	-	-	252	351	H
4	2.38999	30.3	VA1	32.1	-25.2	37.2	54	-16.8	-	-	252	351	H
	2.38829		T										

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0100034 (dB/m)	Amp/Cb/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	42.86	Pk	32.1	-25.2	49.76	-	-	74	-24.24	252	352	H
2	* 2.38075	43.64	Pk	32.1	-25.2	50.54	-	-	74	-23.46	252	352	H
3	* 2.38999	28.87	VA1T	32.1	-25.2	35.77	54	-18.23	-	-	252	351	H
4	* 2.38829	30.3	VA1T	32.1	-25.2	37.2	54	-16.8	-	-	252	351	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

### VERTICAL RESULT

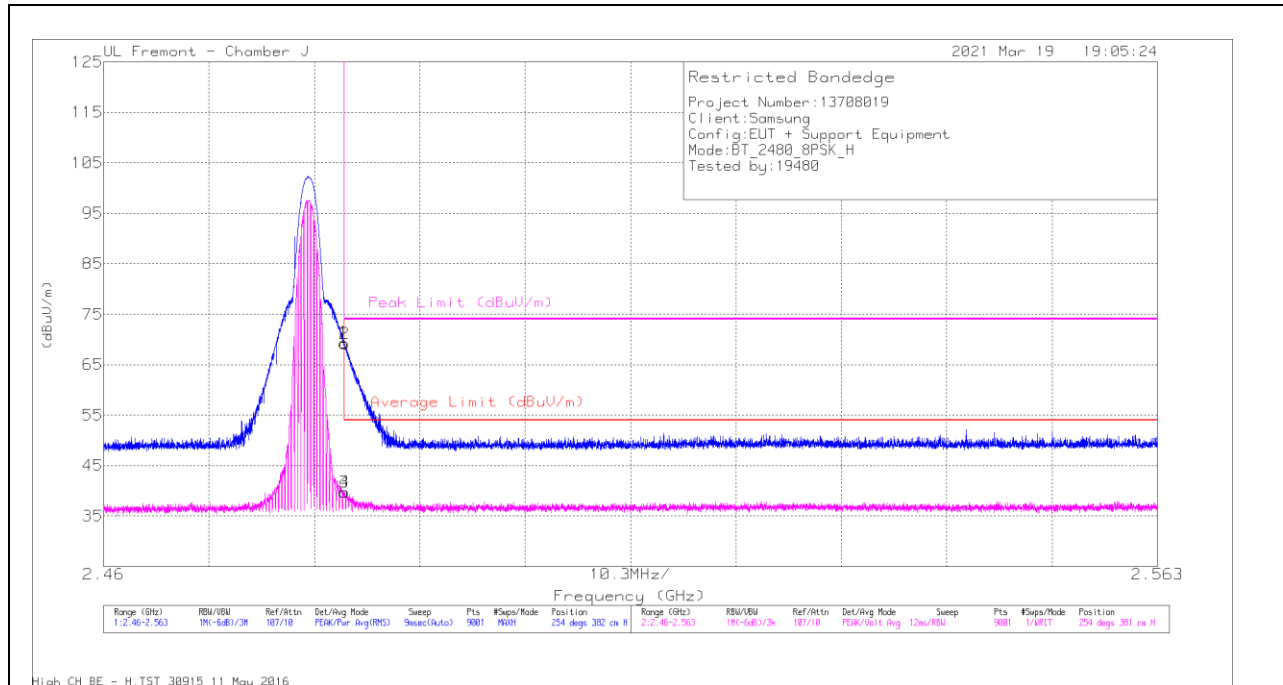


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0100034 (dB/m)	Amp/Cbi/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.38999	41.53	Pk	32.1	-25.2	48.43	-	-	74	-25.57	291	362	V
2	* 2.37754	44.13	Pk	32.1	-25.2	51.03	-	-	74	-22.97	291	362	V
3	* 2.38999	29.63	VA1T	32.1	-25.2	36.53	54	-17.47	-	-	291	362	V
4	* 2.38095	30.4	VA1T	32.1	-25.2	37.3	54	-16.7	-	-	291	362	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

**BANDEDGE (HIGH CHANNEL)**

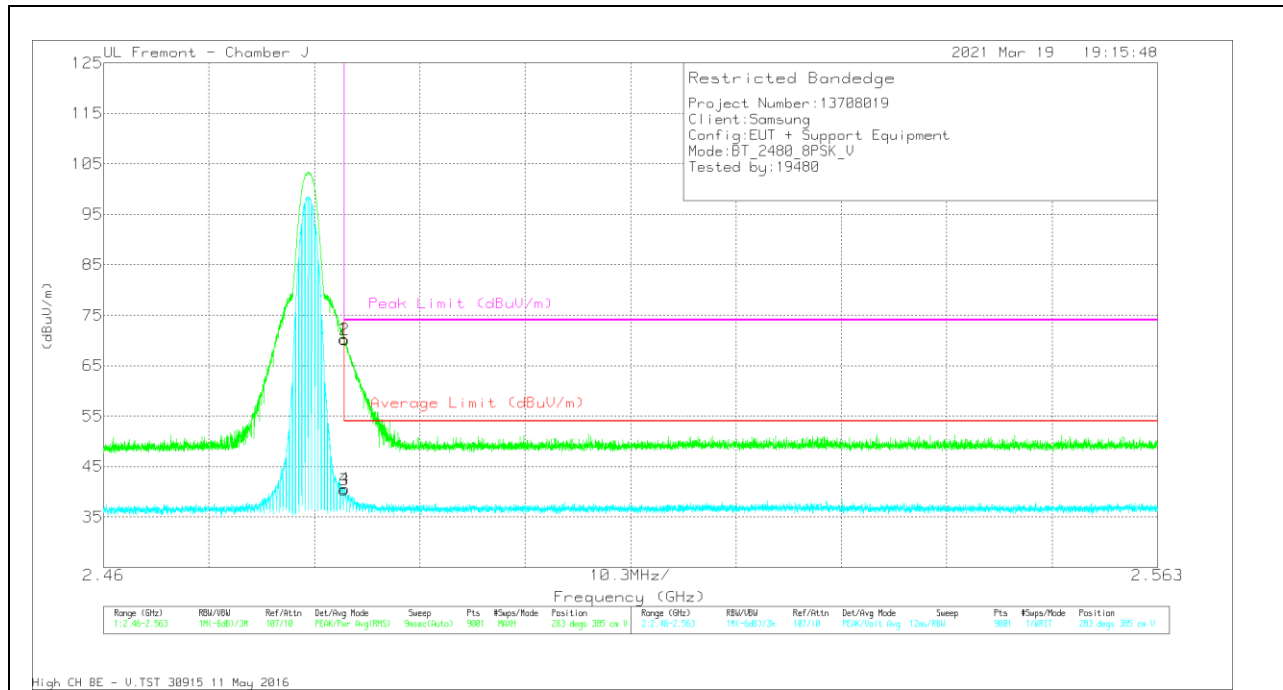
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0100034 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	62.05	Pk	32.5	-25.2	69.35	-	-	74	-4.65	254	382	H
2	* 2.48353	61.82	Pk	32.5	-25.2	69.12	-	-	74	-4.88	254	382	H
3	* 2.48351	32.41	VA1T	32.5	-25.2	39.71	54	-14.29	-	-	254	381	H
4	* 2.48353	32.44	VA1T	32.5	-25.2	39.74	54	-14.26	-	-	254	381	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

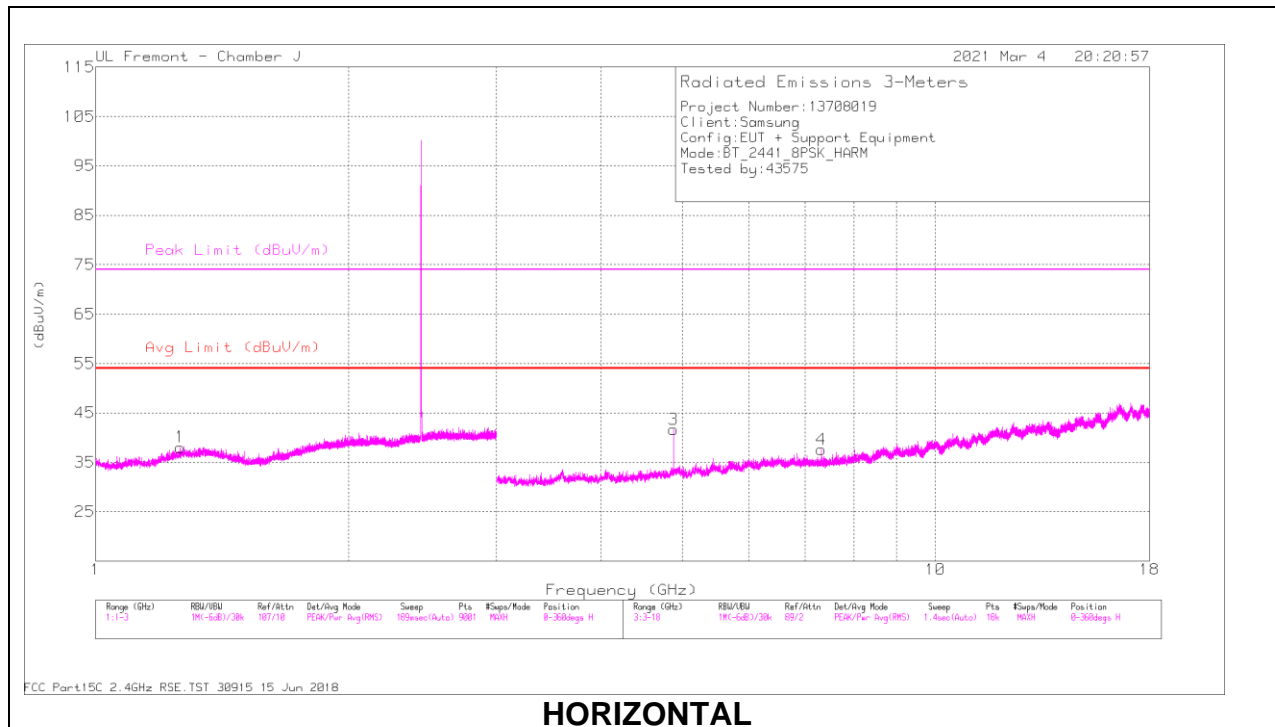
### VERTICAL RESULT



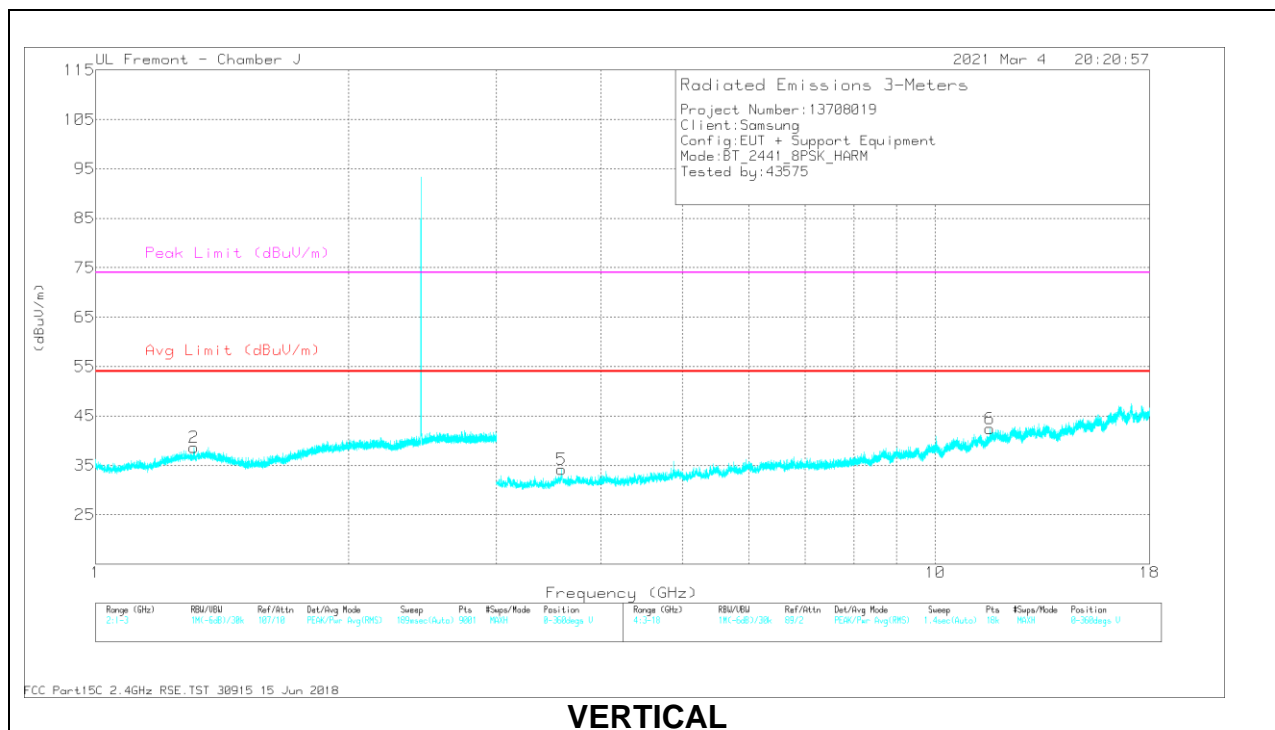
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0100034 (dB/m)	Amp/Cb/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	62.98	Pk	32.5	-25.2	70.28	-	-	74	-3.72	283	385	V
2	* 2.48355	62.88	Pk	32.5	-25.2	70.18	-	-	74	-3.82	283	385	V
3	* 2.48351	33.01	VA1T	32.5	-25.2	40.31	54	-13.69	-	-	283	385	V
4	* 2.48356	33.26	VA1T	32.5	-25.2	40.56	54	-13.44	-	-	283	385	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

### MID CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0100034 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.25935	40.88	PKFH	29.4	-25.6	44.68	-	-	74	-29.32	195	177	H
	* 1.26158	28.96	VA1T	29.4	-25.6	32.76	54	-21.24	-	-	195	177	H
2	* 1.30809	41.96	PKFH	29.5	-25.6	45.86	-	-	74	-28.14	93	349	V
	* 1.3083	28.96	VA1T	29.5	-25.6	32.86	54	-21.14	-	-	93	349	V
3	* 4.88305	37.99	PKFH	34.3	-30.6	41.69	-	-	74	-32.31	225	220	H
	* 4.88048	25.45	VA1T	34.4	-30.7	29.15	54	-24.85	-	-	225	220	H
4	* 7.32278	35.67	PKFH	35.8	-26.7	44.77	-	-	74	-29.23	178	107	H
	* 7.3231	24.23	VA1T	35.9	-26.7	33.43	54	-20.57	-	-	178	107	H
5	* 3.58702	39.4	PKFH	34.2	-32.4	41.2	-	-	74	-32.8	199	123	V
	* 3.58808	27.02	VA1T	34.4	-32.4	29.02	54	-24.98	-	-	199	123	V
6	* 11.61737	31.77	PKFH	38.6	-21.6	48.77	-	-	74	-25.23	79	248	V
	* 11.61906	19.37	VA1T	38.6	-21.6	36.37	54	-17.63	-	-	79	248	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak  
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

**APPENDIX A**

<b>A3LSMM127G SPOT CHECK RESULTS</b>										
Technology	Mode	Test Item	Channel	Frequency Measured (MHz)	A3LSMM127F		A3LSMM127G		Delta (dB)	
					Peak (dBuV/m)	Ave (dBuV/m)	Peak (dBuV/m)	Ave (dBuV/m)	Peak (dBuV/m)	Ave (dBuV/m)
BT	GFSK	RBE	78	2480	66.95	42.36	58.63	39.51	-8.32	-2.85
		RSE	39	7322.78	49.76	40.84	45.81	35.57	-3.95	-5.27
	8PSK	RBE	78	2480	72.92	42.86	70.28	40.56	-2.64	-2.3
		RSE	39	7322.57	48.7	39.39	44.77	33.43	-3.93	-5.96

**END OF TEST REPORT**