



# **CERTIFICATION TEST REPORT**

**Report Number. :** 11783785-E8V1

**Applicant :** SONY MOBILE COMMUNICATIONS INC.  
4-12-3 HIGASHI-SHINAGAWA,  
SHINAGAWA -KU,TOKYO, 140-0002, JAPAN

**FCC ID :** PY7-22031B

**EUT Description :** GSM/WCDMA/LTE Phone with BT,DTS/UNII a/b/g/n/ac, & NFC

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

**Date Of Issue:**

July 31, 2017

**Prepared by:**

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NVLAP LAB CODE 200065-0

Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V1	07/31/17	Initial Issue	D. Corona

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# 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** SONY MOBILE COMMUNICATIONS, INC.  
**EUT DESCRIPTION:** GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac, & NFC.  
**SERIAL NUMBER:** BH9000MD83  
**DATE TESTED:** July 07 to 11, 2017

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR PART 15 SUBPART B	Pass

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

**Note:** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL 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 any government.

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## 2. TEST METHODOLOGY

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

## 3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA. Line conducted emissions are measured only at the 47173 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

47173 Benicia Street	47266 Benicia Street
<input checked="" type="checkbox"/> Chamber A(IC: 2324B-1)	<input type="checkbox"/> Chamber D(IC: 22541-1)
<input type="checkbox"/> Chamber B(IC: 2324B-2)	<input type="checkbox"/> Chamber E(IC: 22541-2)
<input type="checkbox"/> Chamber C(IC: 2324B-3)	<input type="checkbox"/> Chamber F(IC: 22541-3)
	<input type="checkbox"/> Chamber G(IC: 22541-4)
	<input type="checkbox"/> Chamber H(IC: 22541-5)

The above test sites and facilities are covered under FCC Test Firm Registration # 208313. UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. Chambers A through C are covered under Industry Canada company address code 2324B with site numbers 2324B -1 through 2324B-3, respectively. Chambers D through H are covered under Industry Canada company address code 22541 with site numbers 22541 -1 through 22541-5, respectively.

## 4. CALIBRATION AND UNCERTAINTY

### 4.1. MEASURING INSTRUMENT CALIBRATION

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

### 4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

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

### 4.3. MEASUREMENT UNCERTAINTY

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

Parameter	Uncertainty
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.84 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.65 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	3.15 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	5.36 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.32 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.45 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.24 dB

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

## 5. EQUIPMENT UNDER TEST

### 5.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac, & NFC.

#### GENERAL INFORMATION

Highest frequency generated or used by the EUT	5825GHz
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### 5.2. TEST CONFIGURATIONS

The following configuration was tested:

EUT Configuration	Description
1	Laptop Sync Mode - The EUT was configured as table top equipment. The EUT is installed in a typical configuration. The EUT is connected to a laptop via USB, is charging and transferring data via the laptop.
2	Charging - The EUT was configured as table top equipment. The EUT is installed in a typical configuration. The EUT is connected to an AC adapter for charging and in a functional mode.

### 5.3. MODE(S) OF OPERATION

Mode	Description
Sync mode	Data transfer; Sync video file from laptop to EUT and continued playing video during testing.
Charging Mode	Charging with supplied USB charger. EUT and its charger shall be on back edge of table, with charger connected to extension cord.

### 5.4. SOFTWARE AND FIRMWARE

The software version installed in the EUT during testing was 0.274.

### 5.5. MODIFICATIONS

No modifications were made during testing.

## 5.6. DETAILS OF TESTED SYSTEM

### SUPPORT EQUIPMENT & PERIPHERALS

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Laptop	Lenovo	2349CW5	PB05HPL	DoC
Earphone	Sony	N/A	N/A	N/A
AC Adapter	Lenovo	ADLX90NLT2A	11S45N0307ZLZ436RDM2	N/A
Mouse	Logitech	M-U0026	1304HS02AX68	N/A
Keyboard	Lenovo	KU-0225	54Y9400	N/A
Switch	Netgear	FS105 v2	1D52163304A74	DoC
AC Adapter	Netgear	FA-0751000SUA	332-10154-01	N/A

### I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	2	Power	Shielded	1.2m	N/A
2	Audio	1	Mini-Jack	Unshielded	1m	N/A
3	USB	1	Mini-USB	Shielded	0.9 m	UCB20 cable from EUT to Laptop
3	USB	2	USB	Shielded	2m	From laptop to keyboard & mouse
4	AC Power	2	IEC	Unshielded	1m	N/A
5	Ethernet	1	RJ45	Unshielded	2m	N/A

### TEST SETUP

The EUT is installed in a typical configuration. Test software exercised the EUT.



## 6. REUSE OF TEST DATA

### 6.1. INTRODUCTION

According to the manufacturer, FCC ID: PY7-65365K and FCC ID: PY7-22031B unlicensed radios (WLAN/BT/BLE/NFC) are electrically identical. They share the same chipset, same power and same antenna performance including antenna gain. The FCC ID: PY7-65365K test data shall remain representative of FCC ID: PY7-22031B so, FCC ID: PY7-22031B leverages test data from FCC ID: PY7-65365K.

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

### 6.2. DEVICES DIFFERENCES

Difference between PY7-65365K and PY7-22031B:

Various components were removed from PY7-65365K to establish PY7-22031B; such components are related only to the cellular part and there are no changes in non-cellular (WLAN/BT/BLE/NFC) parts, which are electronically identical.

### 6.3. SPOT CHECK VERIFICATION

Radiated emissions were fully re-evaluated against FCC Part 15B requirements for digital devices and results indicated no significant differences between the two versions

NOTE: AC Main Line Conducted Emissions please refer to 11740661-E8V2 FCC Report 15B.

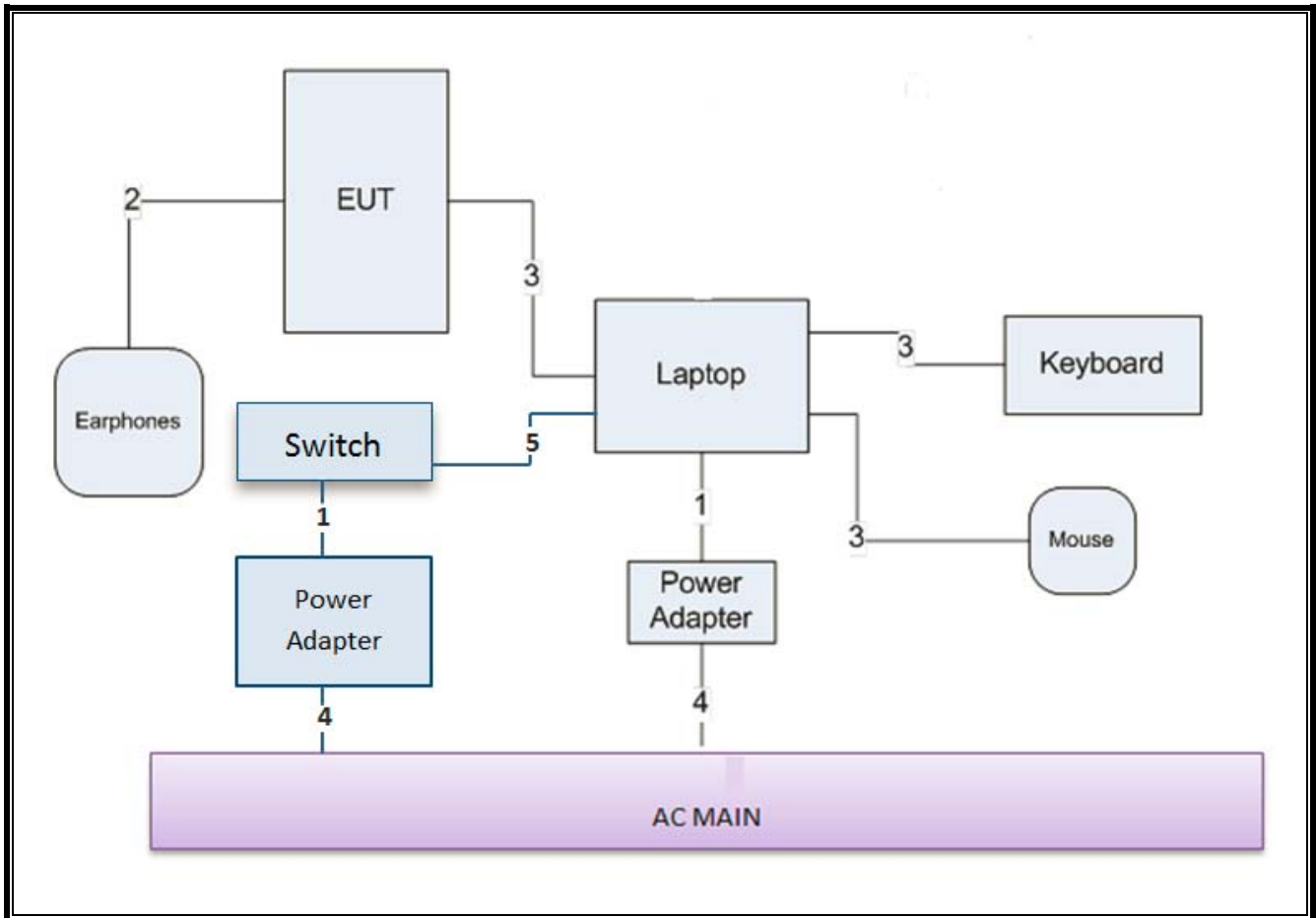
PY7-22031B and PY7-65365K using only one power charger

### 6.4. REFERENCE DETAIL

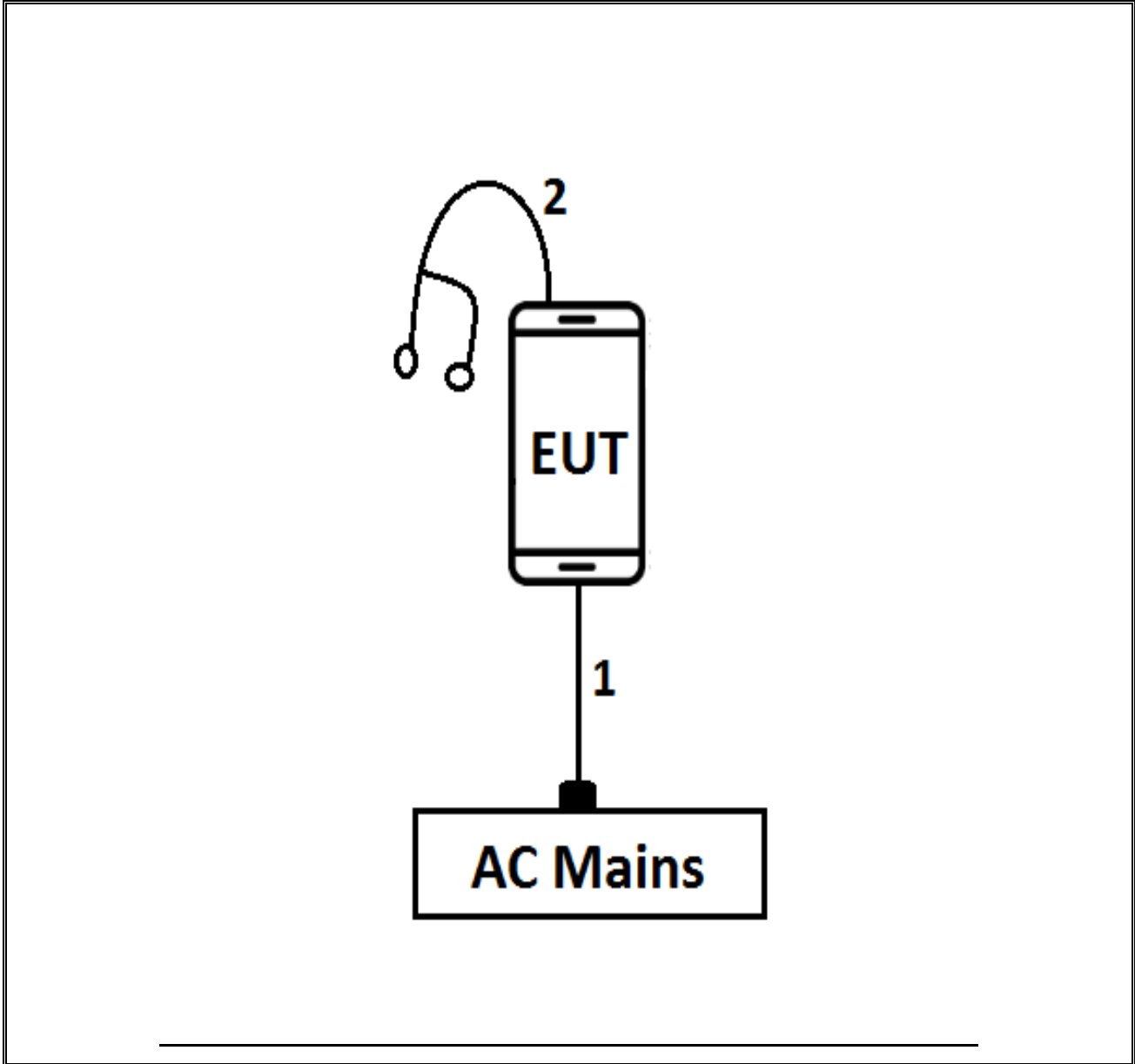
Equipment Class	Reference FCC ID	Report Title/Section
DSS (BT)	PY7-65365K	11785223-E2V1 FCC Report BT
DTS (BLE)	PY7-65365K	11785223-E3V2 FCC Report BLE
DTS (WLAN)	PY7-65365K	11785223-E4V3 FCC Report DTS
UNII (WLAN)	PY7-65365K	11785223-E5V3 FCC Report UNII
NFC	PY7-65365K	11785223-E7V2 FCC Report NFC
JBP	PY7-65365K	<b>11785223-E8V2 FCC Report 15B</b>

**SETUP DIAGRAM**

**Sync Mode**



**Charging Mode**



## 7. APPLICABLE EMISSIONS LIMITS AND TEST RESULTS

### 7.1. EMISSIONS 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	T Number	Cal Date	Cal Due
Amplifier, 1 to 18 GHz	Miteq	AFS43-00101800-25-S-42	493	02/15/17	02/15/18
Amplifier, 1 to 8 GHz	Miteq	AMF-4D-01000800-30-29P	1170	04/28/17	04/28/18
Amplifier, 10KHz to 1GHz, 32dB	Keysight	8447D	300	11/10/16	11/10/17
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences	JB3	130	09/23/16	09/23/17
PXA Spectrum Analyzer, 3Hz to 44GHz	Agilent	N9030A	1466	04/11/17	04/11/18
EMI Reciever	Rohde & Schwarz	ESR-EMI	1436	01/06/17	01/06/18
LISN	FISCHER	FCC-LISN-50/250-25-2-01	1310	06/15/17	06/15/18
18 - 26.5 GHz Horn Antenna	Seavey Division	MWH-1826/B	449	06/12/17	06/12/18
26.5 - 40 GHz Horn Antenna	ARA	MWH-2640/B	446	06/12/17	06/12/18
Pre-Amp 1-26.5 GHz	Agilent	8449B	404	07/05/17	07/05/18
Pre-Amp, 26-40GHz	MITEQ	NSP4000-SP2	88	04/29/17	04/29/18
Spectrum Analyzer	Agilent	8564E	106	09/07/16	09/07/17

Test Software List			
Description	Manufacturer	Model	Version
Radiated Software	UL	UL EMC	Ver 9.5, Dec 01, 2016

## 7.2. RADIATED EMISSIONS LIMITS AND RESULTS

### LIMIT

FCC Part 15 Subpart B

§15.109 (a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Limits for radiated disturbance of Class B ITE at measuring distance of 3 m		
Frequency range (MHz)	Field Strength Limit (uV/m)	Quasi-Peak Limit (dBuV/m)
30 to 88	100	40
88 to 216	150	43.5
216 to 960	200	46
Above 960 MHz	500	54
Note: The lower limit shall apply at the transition frequency.		
Frequency (MHz)	Peak (dBuV/m) Limit	Average (dBuV/m) Limit
Above 1000	74	54

### TEST PROCEDURE

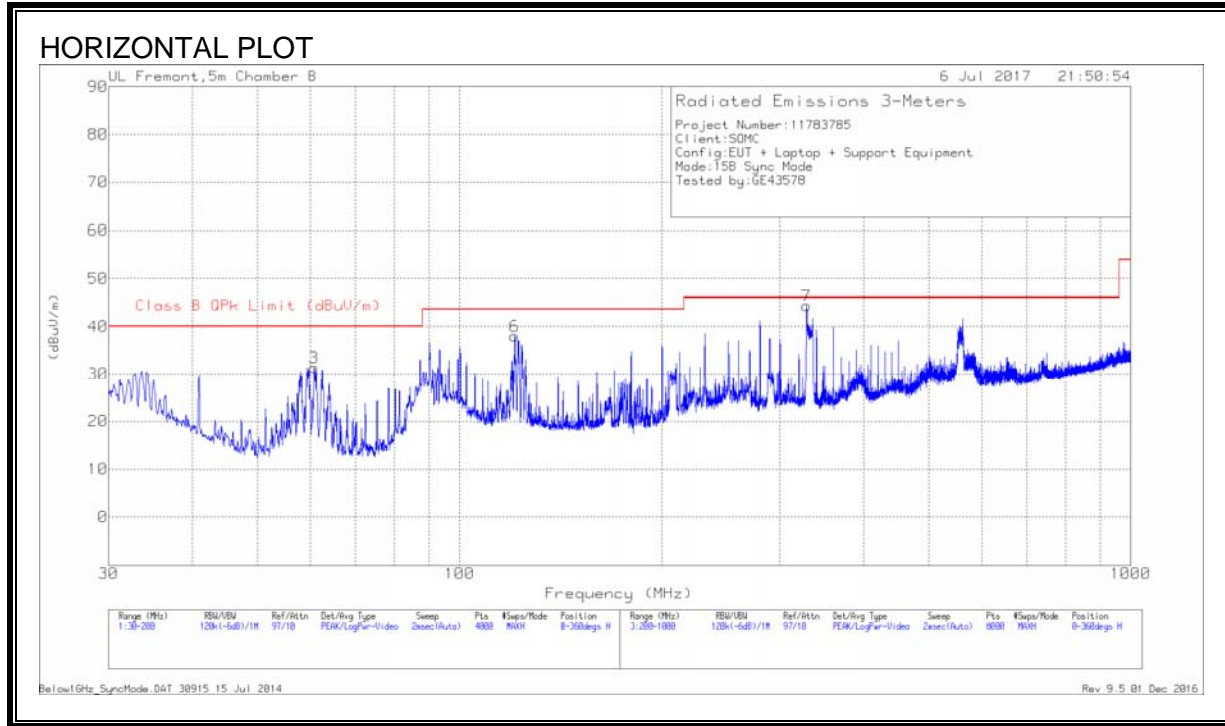
ANSI C63.4: 2014

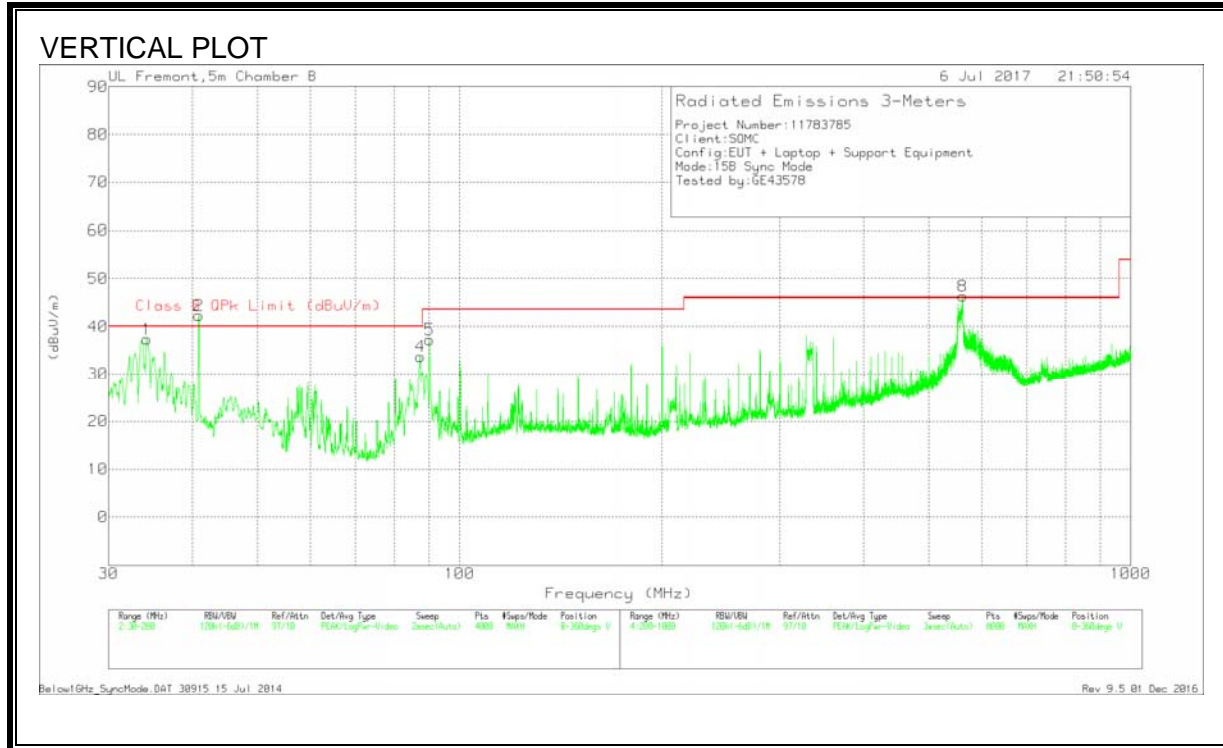
The highest frequency generated or used in the EUT is 5.8 GHz therefore the frequency range was investigated from 30 MHz to 40 GHz.

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 108	1000
108-500	2000
500-1000	5000
Above 1000	5 <sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower

**RESULTS**

**7.2.1. RADIATED EMISSIONS 30 TO 1000 MHz (SYNC MODE)**





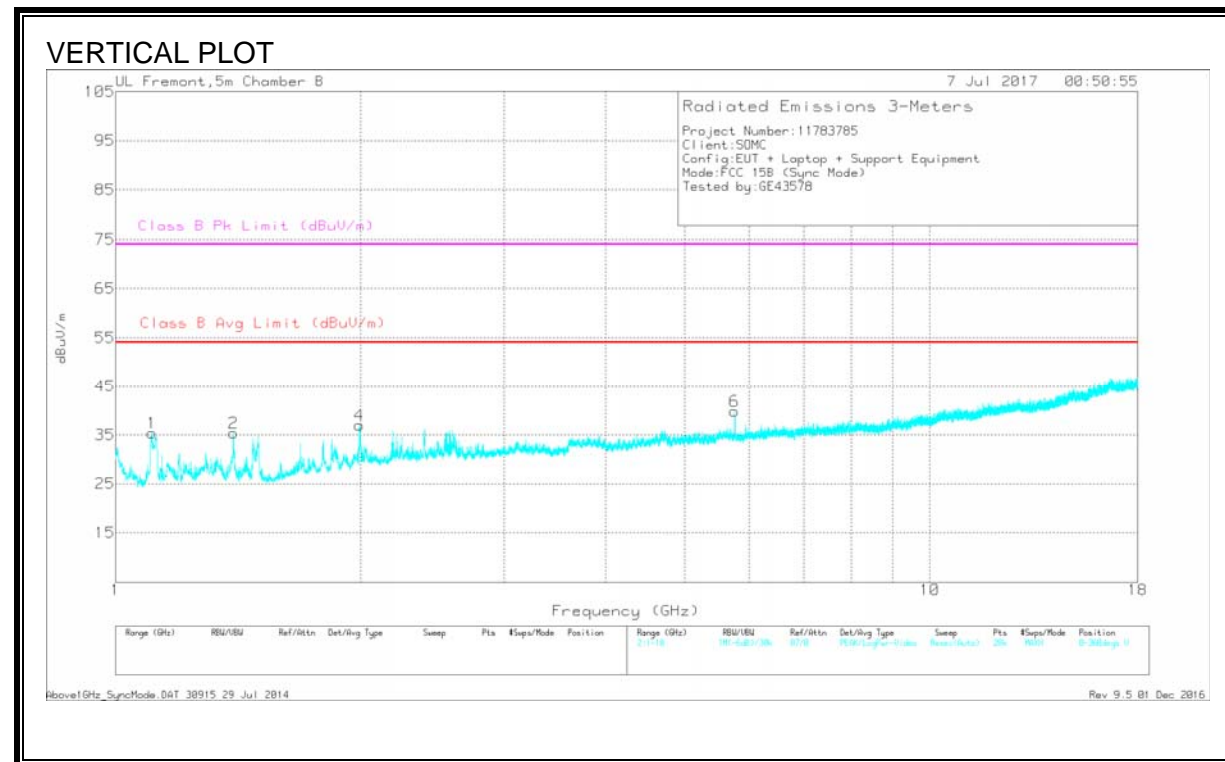
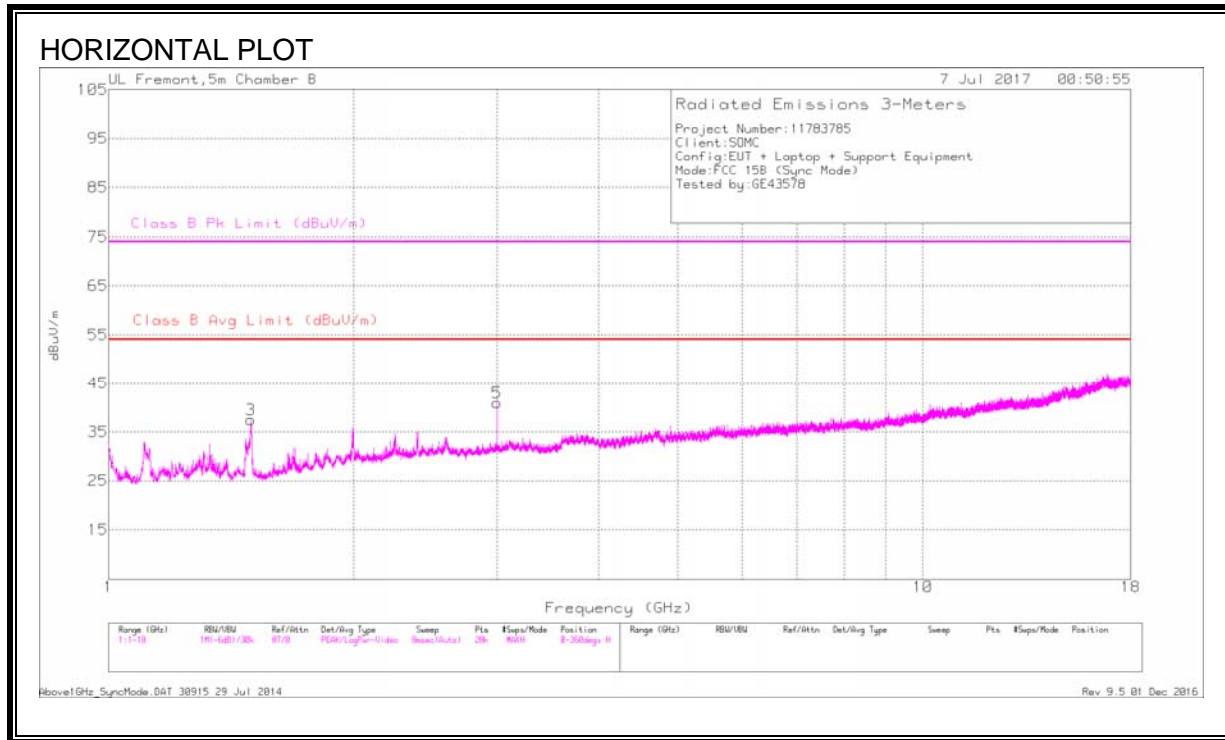
**HORIZONTAL AND VERTICAL DATA**

**Radiated Emissions**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T408 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	33.9844	36.27	Qp	22.1	-27.2	31.17	40	-8.83	47	101	V
2	40.807	21.9	Qp	17.3	-27.1	12.1	40	-27.9	250	153	V
3	60.7355	46.56	Pk	11.6	-26.8	31.36	40	-8.64	0-360	400	H
4	87.3899	48.94	Pk	11.3	-26.5	33.74	40	-6.26	0-360	100	V
5	90.1956	51.99	Pk	11.7	-26.4	37.29	43.52	-6.23	0-360	100	V
6	120.752	37.71	Qp	17.7	-26	29.41	43.52	-14.11	18	238	H
7	329.2363	41.28	Qp	17.9	-24.3	34.88	46.02	-11.14	74	224	H
8	562.3355	34.26	Qp	22.3	-24.5	32.06	46.02	-13.96	359	102	V

Qp - Quasi-Peak detector

### 7.2.2. RADIATED EMISSIONS 1GHz to 18GHz (SYNC MODE)





**HORIZONTAL AND VERTICAL DATA**

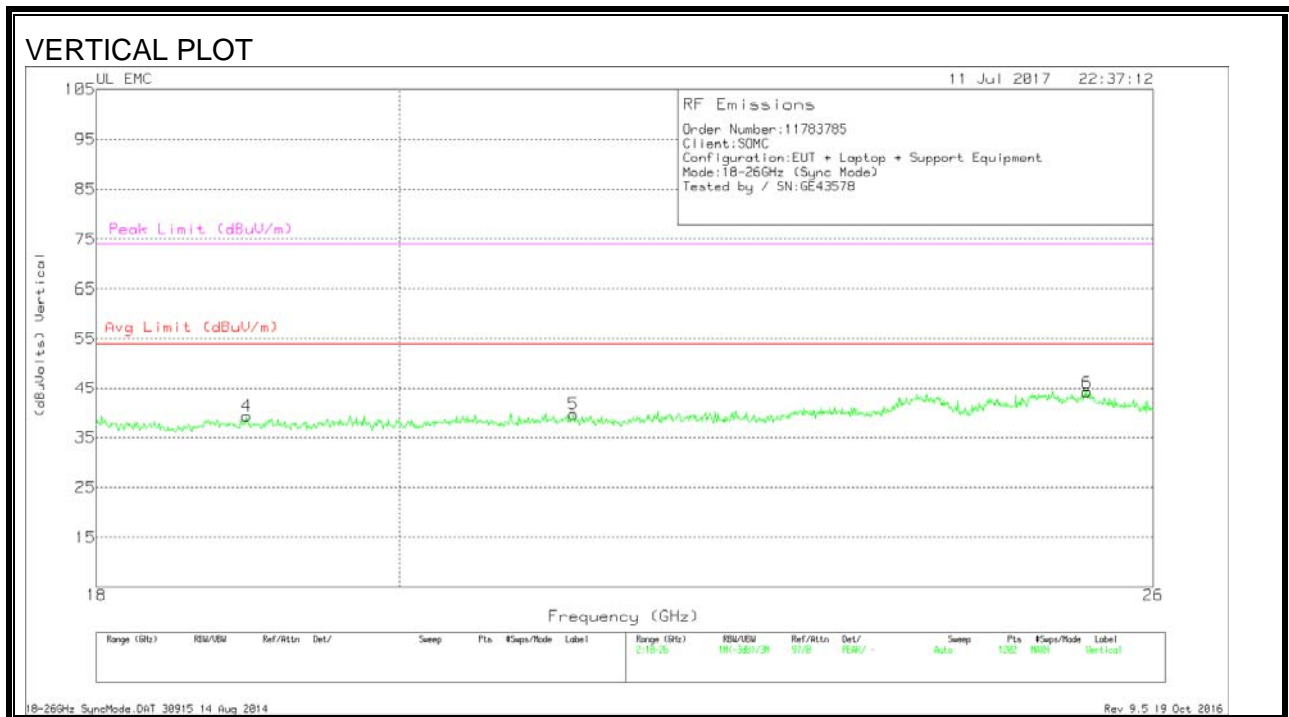
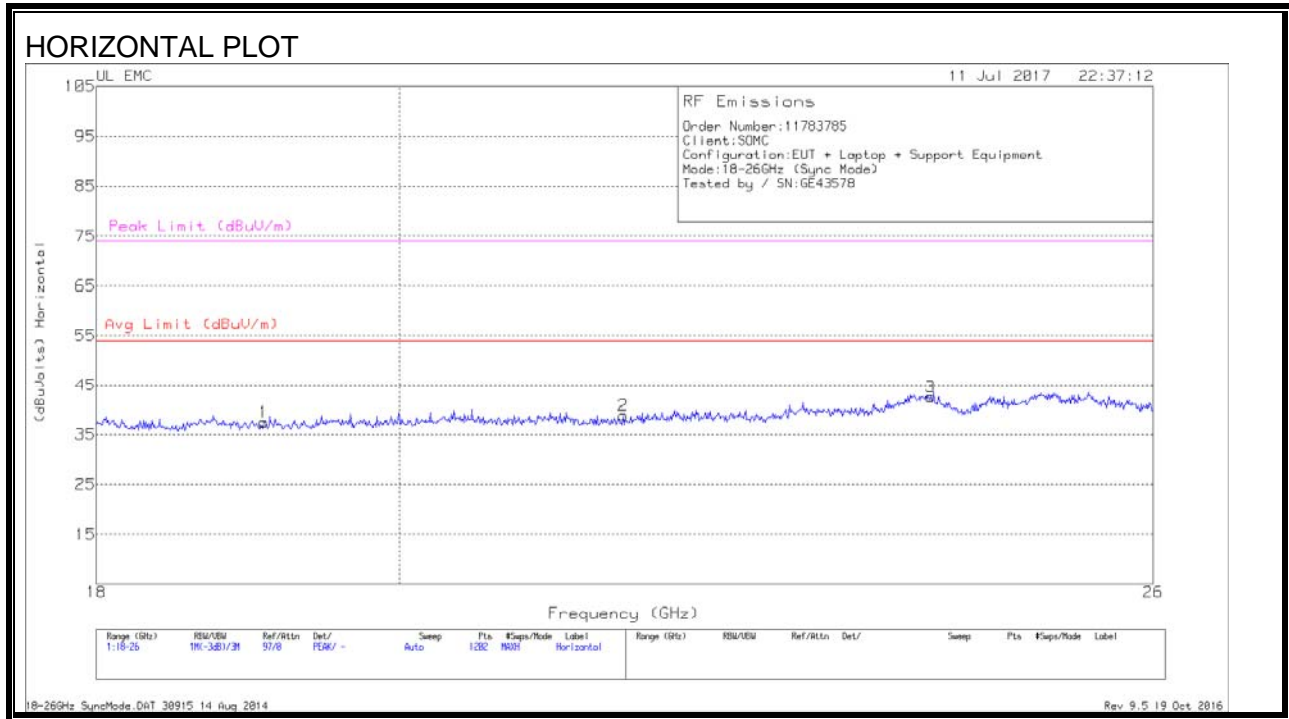
**Radiated Emissions**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl (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	1.111	44.6	Pk	27.6	-34.3	37.9	-	-	74	-36.1	69	340	V
	1.111	29.8	Av	27.6	-34.3	23.1	54	-30.9	-	-	69	340	V
2	1.395	52.78	Pk	28.2	-33.8	47.18	-	-	74	-26.82	71	138	V
	1.395	29.11	Av	28.2	-33.8	23.51	54	-30.49	-	-	71	138	V
3	1.493	38.1	Av	28.2	-33.6	32.7	54	-21.3	-	-	120	148	H
	1.494	52.91	Pk	28.2	-33.5	47.61	-	-	74	-26.39	120	115	H
4	1.993	45.65	Pk	31.3	-32.9	44.05	-	-	74	-29.95	209	178	V
	1.993	26.99	Av	31.3	-32.9	25.39	54	-28.61	-	-	209	178	V
5	3	46.51	Pk	32.8	-31.4	47.91	-	-	74	-26.09	77	387	H
	3	26.61	Av	32.8	-31.4	28.01	54	-25.99	-	-	77	387	H
6	5.76	41.5	Pk	35	-29.5	47	-	-	74	-27	2	173	V
	5.76	34.35	Av	35	-29.5	39.85	54	-14.15	-	-	2	173	V

Pk - Peak detector

Av - Average detection

### 7.2.3. RADIATED EMISSIONS 18 to 26 GHz (SYNC MODE)



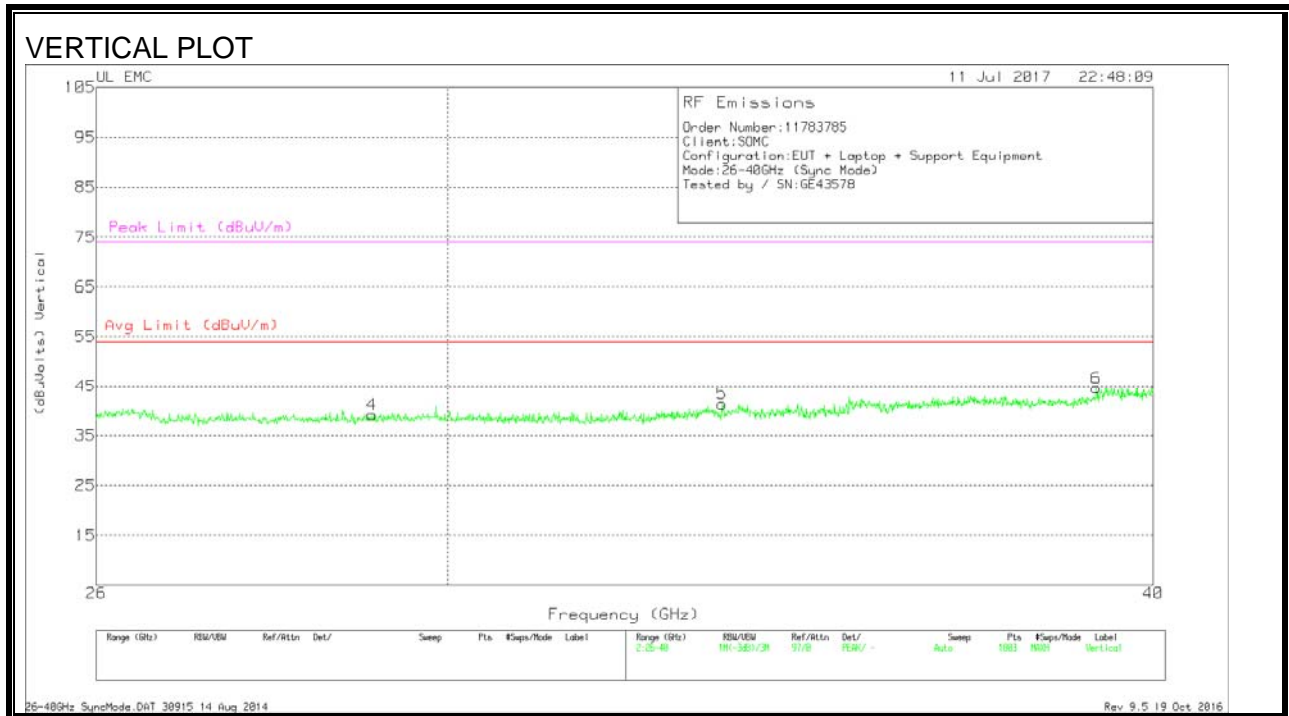
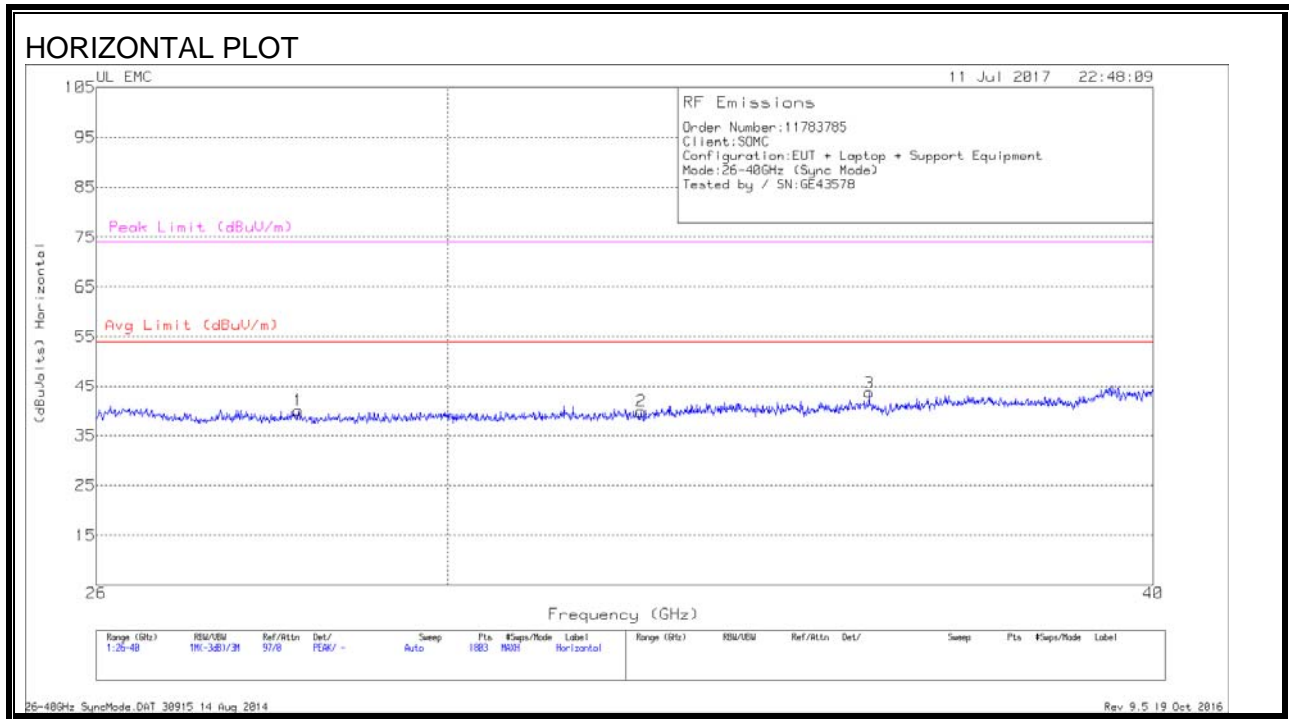
**HORIZONTAL AND VERTICAL DATA**

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T449 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	19.079	39.4	Pk	32.5	-24.9	-9.5	37.5	54	-16.5	74	-36.5
2	21.624	40.33	Pk	33.2	-25.2	-9.5	38.83	54	-15.17	74	-35.17
3	24.062	42.77	Pk	33.9	-24.5	-9.5	42.67	54	-11.33	74	-31.33
4	18.966	41.63	Pk	32.4	-25.2	-9.5	39.33	54	-14.67	74	-34.67
5	21.251	41.57	Pk	33	-25.4	-9.5	39.67	54	-14.33	74	-34.33
6	25.407	43.67	Pk	34.4	-24.4	-9.5	44.17	54	-9.83	74	-29.83

Pk - Peak detector

### 7.2.4. RADIATED EMISSIONS 26 to 40 GHz (SYNC MODE)



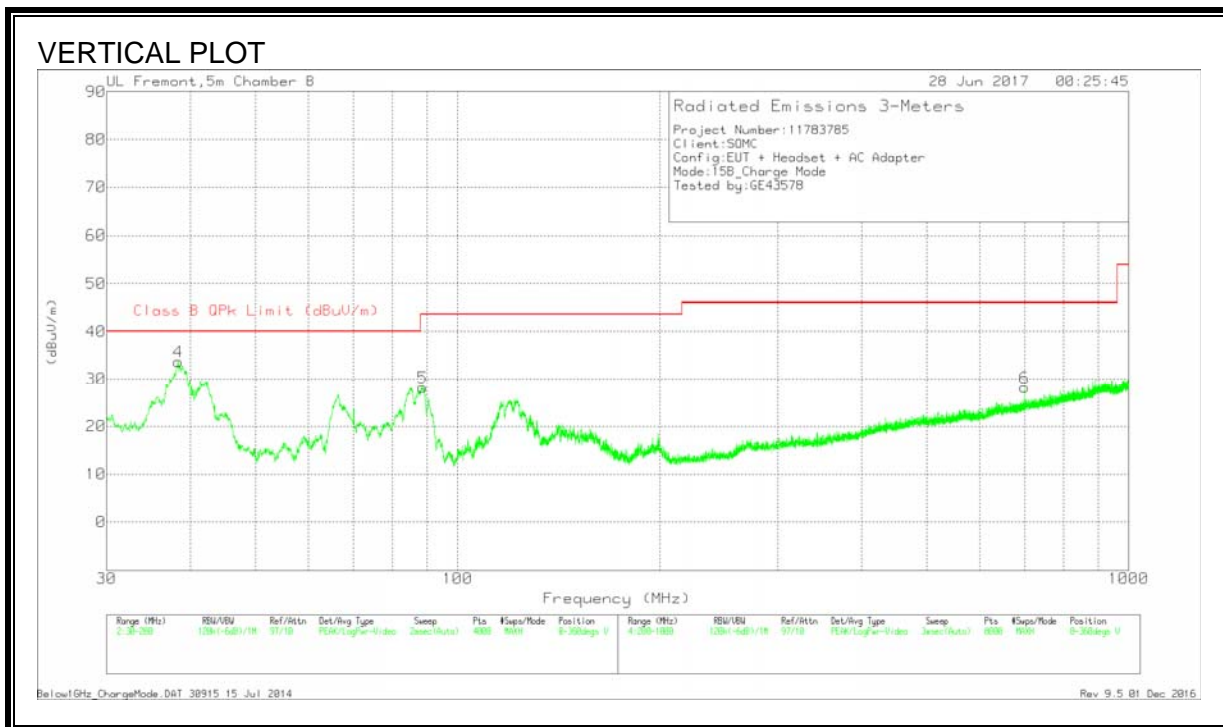
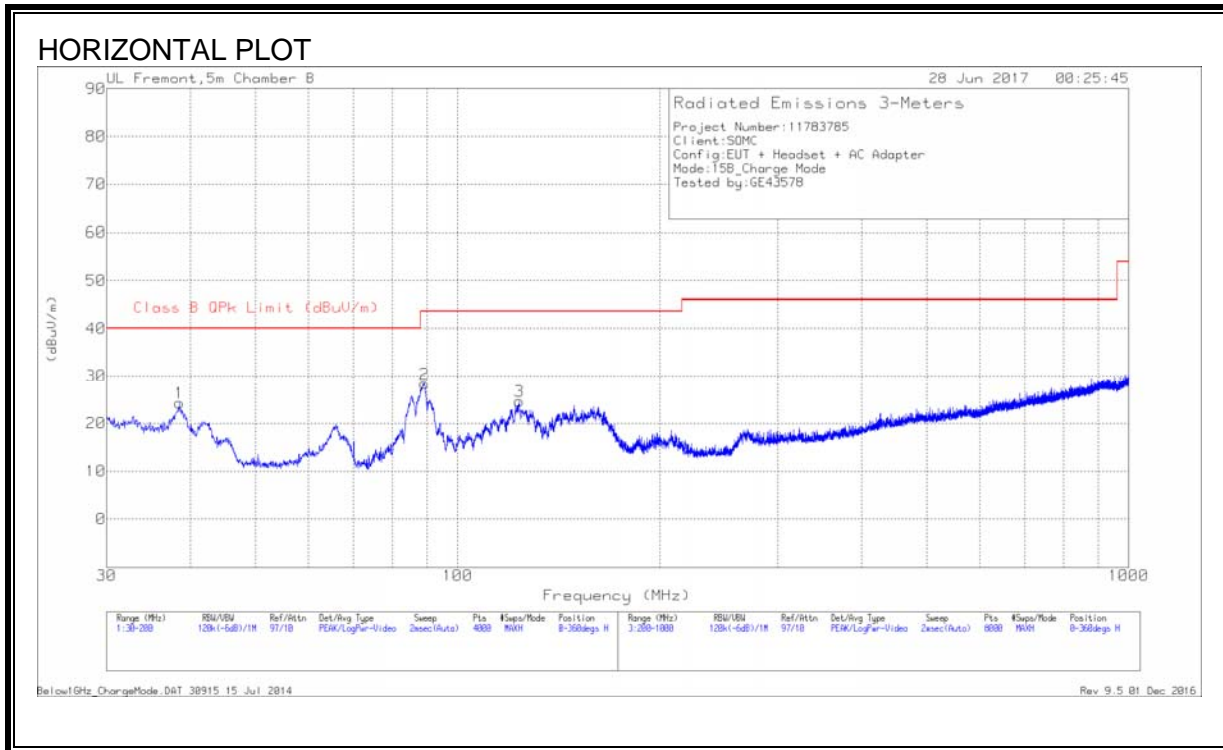
**HORIZONTAL AND VERTICAL DATA**

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T90 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	28.23	45.6	Pk	35.9	-32	-9.5	40	54	-14	74	-34
2	32.464	46.33	Pk	36.2	-33.2	-9.5	39.83	54	-14.17	74	-34.17
3	35.626	49.67	Pk	37.6	-34.1	-9.5	43.67	54	-10.33	74	-30.33
4	29.092	45.37	Pk	35.9	-32.6	-9.5	39.17	54	-14.83	74	-34.83
5	33.552	47.33	Pk	37	-33.5	-9.5	41.33	54	-12.67	74	-32.67
6	39.083	49.17	Pk	37.7	-32.7	-9.5	44.67	54	-9.33	74	-29.33

Pk - Peak detector

### 7.2.5. RADIATED EMISSIONS 30 TO 1000 MHz (CHARGING MODE)



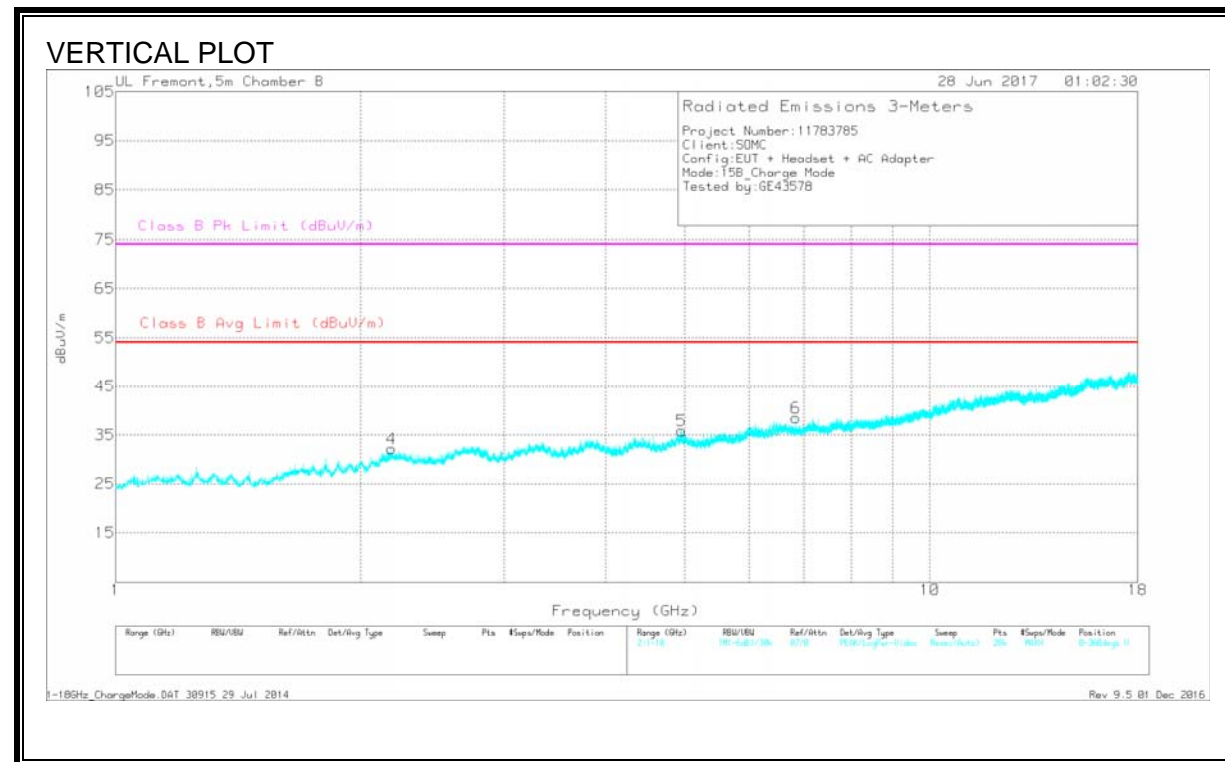
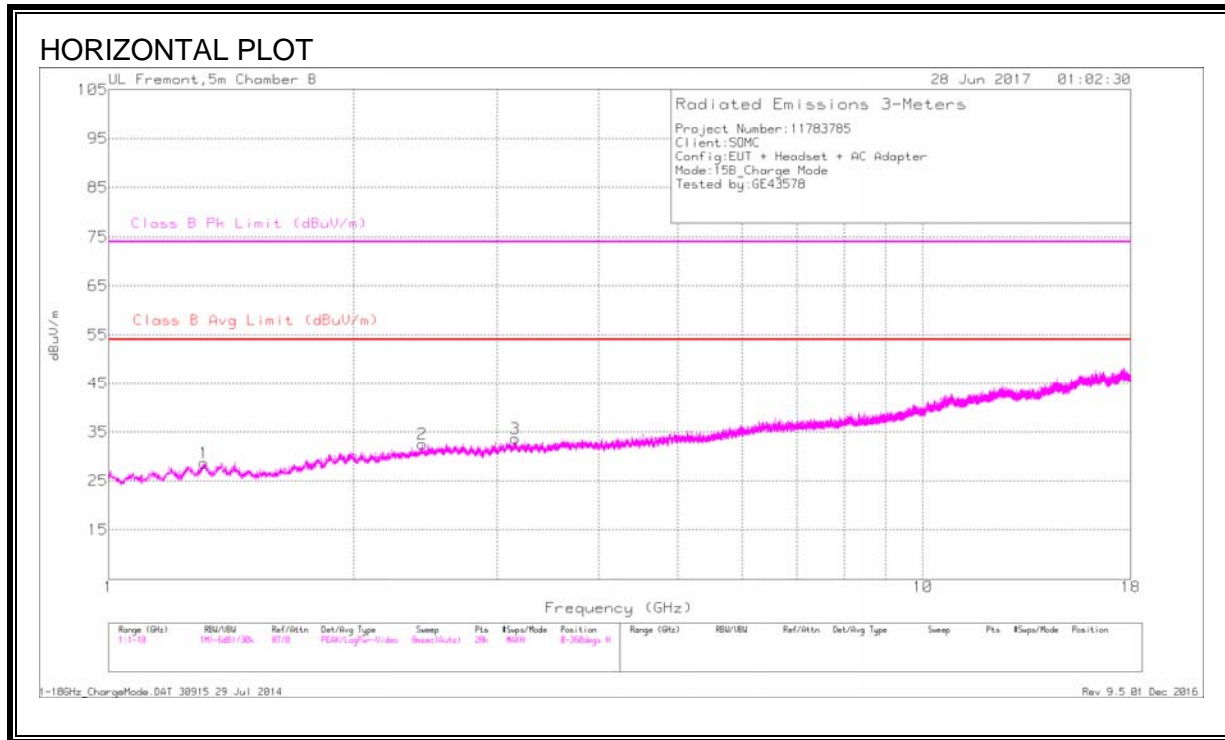
**HORIZONTAL AND VERTICAL DATA**

**Radiated Emissions**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T130 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	38.3322	45.63	Pk	19.2	-31.1	33.73	40	-6.27	0-360	100	V
1	38.5022	36.34	Pk	19	-31.1	24.24	40	-15.76	0-360	400	H
5	88.7077	47.22	Pk	11.6	-30.6	28.22	43.52	-15.3	0-360	100	V
2	89.2178	47.36	Pk	11.6	-30.6	28.36	43.52	-15.16	0-360	200	H
3	123.6092	37.21	Pk	17.9	-30.4	24.71	43.52	-18.81	0-360	200	H
6	699.865	32.27	Pk	24.2	-28.3	28.17	46.02	-17.85	0-360	100	V

Qp - Quasi-Peak detector

### 7.2.6. RADIATED EMISSIONS 1GHz to 18GHz (CHARGING MODE)





**HORIZONTAL AND VERTICAL DATA**

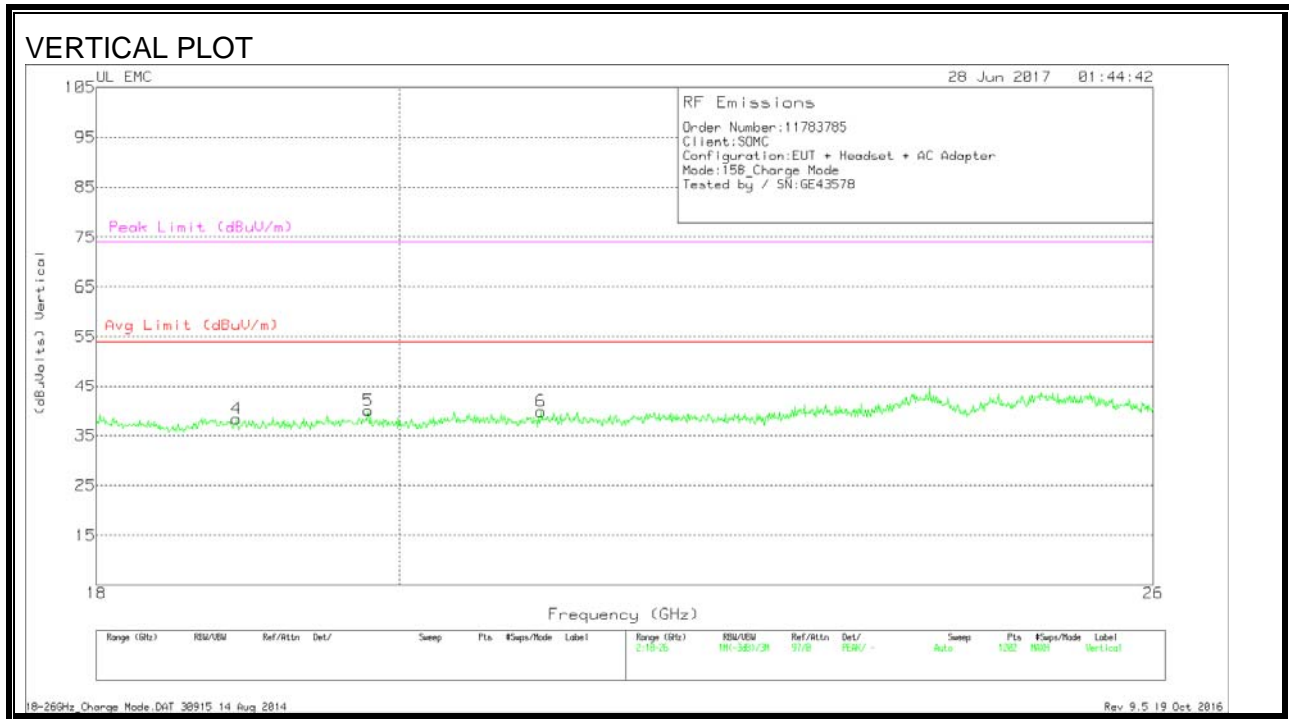
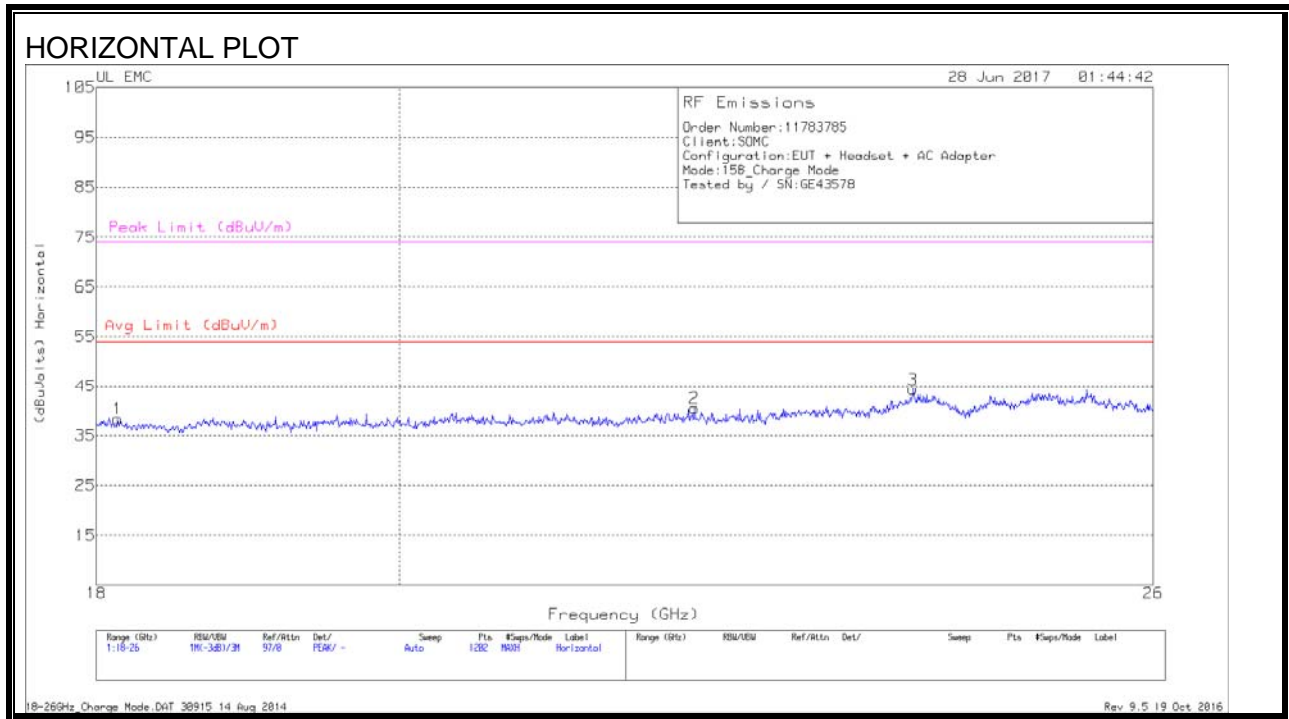
**Radiated Emissions**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl (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	1.309	27.64	Av	29.5	-33.3	23.84	54	-30.16	-	-	216	360	H
	1.309	39.8	Pk	29.5	-33.3	36	-	-	74	-38	216	360	H
4	2.184	39.09	Pk	31.5	-32	38.59	-	-	74	-35.41	34	200	V
	2.184	26.32	Av	31.5	-32	25.82	54	-28.18	-	-	34	200	V
2	2.424	38.95	Pk	32.3	-31.6	39.65	-	-	74	-34.35	256	102	H
	2.424	26.23	Av	32.3	-31.6	26.93	54	-27.07	-	-	256	102	H
3	3.156	38.9	Pk	33	-30.4	41.5	-	-	74	-32.5	132	102	H
	3.156	25.58	Av	33	-30.4	28.18	54	-25.82	-	-	132	102	H
5	4.953	37.61	Pk	34.1	-28.3	43.41	-	-	74	-30.59	228	200	V
	4.953	23.95	Av	34.1	-28.3	29.75	54	-24.25	-	-	228	200	V
6	6.845	34.74	Pk	35.5	-24.5	45.74	-	-	74	-28.26	346	200	V
	6.845	21.56	Av	35.5	-24.5	32.56	54	-21.44	-	-	346	200	V

Pk - Peak detector

Av - Average detection

### 7.2.7. RADIATED EMISSIONS 18 to 26 GHz (CHARGING MODE)



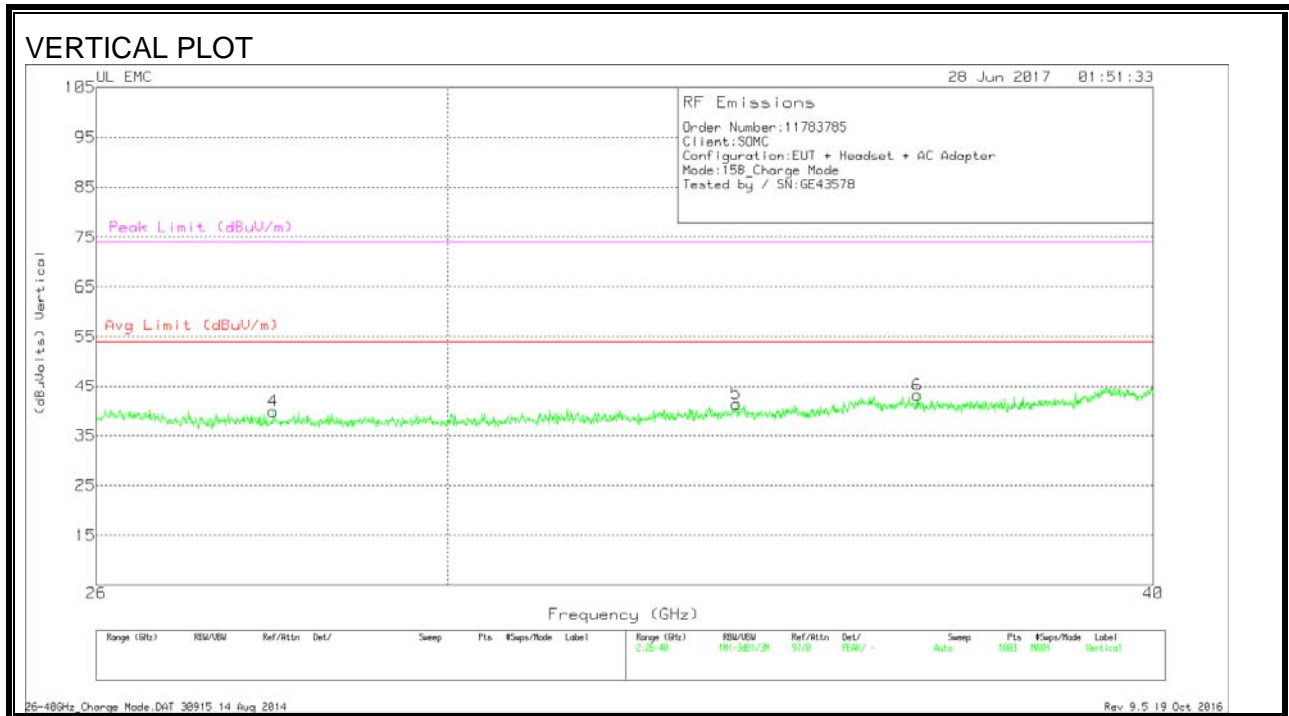
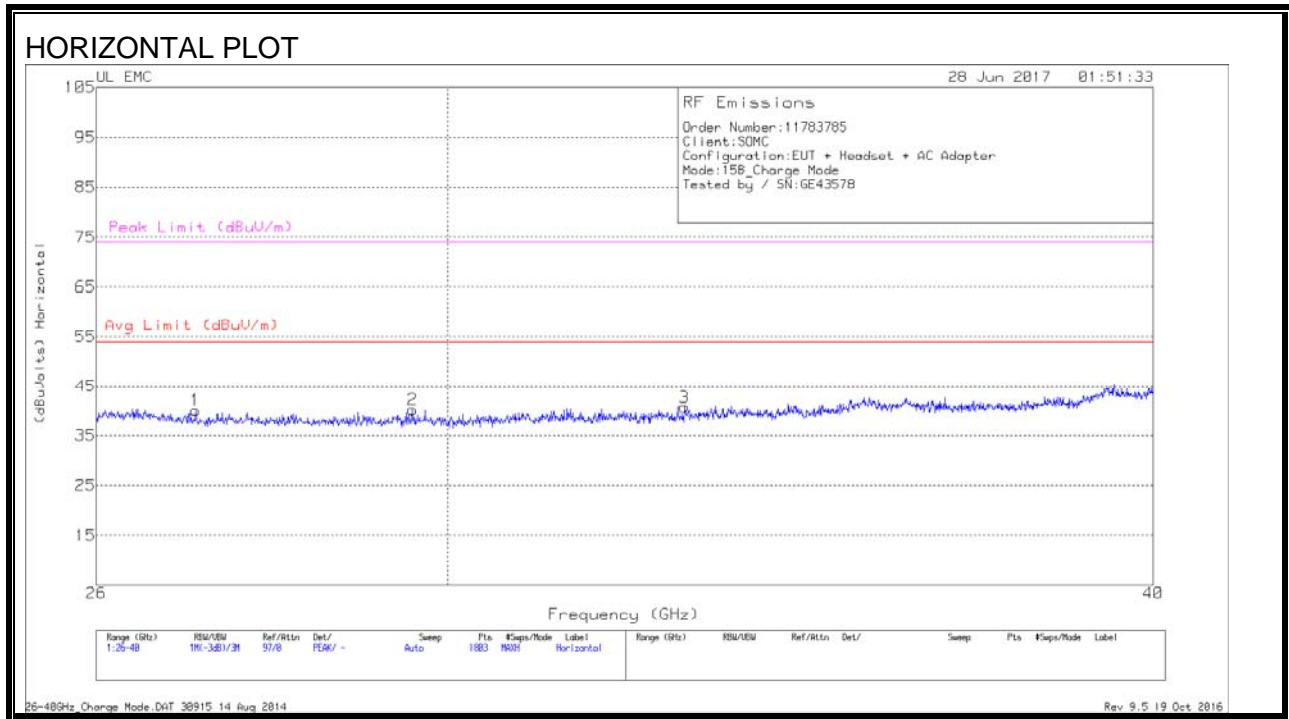
### HORIZONTAL AND VERTICAL DATA

#### Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T449 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	18.133	41.23	Pk	32.3	-25.7	-9.5	38.33	54	-15.67	74	-35.67
2	22.163	41.3	Pk	33.4	-24.7	-9.5	40.5	54	-13.5	74	-33.5
3	23.915	43.83	Pk	33.9	-23.9	-9.5	44.33	54	-9.67	74	-29.67
4	18.899	40.83	Pk	32.4	-25.4	-9.5	38.33	54	-15.67	74	-35.67
5	19.785	41.5	Pk	32.7	-24.7	-9.5	40	54	-14	74	-34
6	21.011	41.73	Pk	33.2	-25.6	-9.5	39.83	54	-14.17	74	-34.17

Pk - Peak detector

### 7.2.8. RADIATED EMISSIONS 26 to 40 GHz (CHARGING MODE)



**HORIZONTAL AND VERTICAL DATA**

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T90 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	27.072	45.3	Pk	35.5	-31.3	-9.5	40	54	-14	74	-34
2	29.574	46.37	Pk	36	-32.7	-9.5	40.17	54	-13.83	74	-33.83
3	33.039	46.77	Pk	36.7	-33.3	-9.5	40.67	54	-13.33	74	-33.33
4	27.942	45.73	Pk	35.8	-32.2	-9.5	39.83	54	-14.17	74	-34.17
5	33.754	47.53	Pk	36.8	-33.5	-9.5	41.33	54	-12.67	74	-32.67
6	36.333	50.17	Pk	37.2	-34.7	-9.5	43.17	54	-10.83	74	-30.83

Pk - Peak detector

### **7.3. AC MAINS LINE CONDUCTED EMISSIONS**

#### **RESULTS**

*Please refer to report "11785223-E8V2 FCC Report 15B", Section 6.3.*