



UL LLC
12 Laboratory Dr.
Research Triangle Park, NC
27709

www.ul.com/emc
(919) 549-1400

Report Number: R11139405A-E5
Order Number: 11139405
Date: 2016-04-22
EUT: GSM/WCDMA/LTE Phone with
BT, DTS/UNII a/b/g/n/ac & NFC
FCC ID: PY7-PM0944

Electromagnetic Compatibility Test Report

For

SONY MOBILE COMMUNICATIONS, INC.

4-12-3 Higashi-Shinagawa, Shinagawa-Ku
TOKYO, 140-0002 JAPAN

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Test Report Details

Tests Performed By: **UL LLC**
12 Laboratory Dr.
Research Triangle Park, NC 27709

Tests Performed For: **Sony Mobile Communications Inc.**
4-12-3 Higashi-Shinagawa, Shinagawa-Ku
TOKYO, 140-0002 JAPAN

Test Report Date: **2016-04-22**

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

Product standards **CFR 47 FCC Part 15 Subpart B: 2015, ICES-003 - 2016**

Sample Serial Number: **2312491**

Testing Start Date: **2016-04-08**

Date Testing Complete: **2016-04-22**

Overall Results: Compliant

UL LLC reports apply only to the specific samples tested under stated test conditions. All samples tested were in good operating condition throughout the entire test program. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. UL LLC shall have no liability for any deductions, inferences or generalizations drawn by the client or others from UL LLC issued reports. 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.

This report may contain test results that are not covered by the NVLAP or A2LA accreditation. The scope of accreditation is limited to the specific tests that are listed on the NVLAP and/or A2LA websites referenced at the end of this report.

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Report Revision History

Version	Revision Date	Description	Revised By
1	2016-04-15	Initial Release.	John Manser
2	2016-04-22	Performed additional 30-1000 MHz scan in sync mode for additional evaluation.	John Manser

1.0 GENERAL - Product Description

1.1 Equipment Description

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

1.2 Device Configuration During Test

1.2.1 Equipment Used During Test:

Use	Product Type	Manufacturer	Model	Comments
EUT	Phone	Sony Mobile Communication	FCC ID: PY7-PM0944	SN - 2312491
AE	Laptop	Lenovo	T450	TYPE 20BU-S04K00 S/N PC-0A2UQU 16/01
AE	AC Adapter	Lenovo	ADLX65NCC2A	SN's: 11S45N0263Z1ZS995256HR 11S36200284ZZ1005255WE
AE	Mouse	Logitech	B100	M/N: M-U0026 P/N: 810-002149 S/N: 1451HS05PWZ8
AE	Keyboard	Logitech	Internet 350 Keyboard	M/N: Y-US76A P/N: 820-000172 PID: SC70812
Note1: EUT - Equipment Under Test, AE - Auxiliary/Associated Equipment, or SIM - Simulator (Not Subjected to Test)				
Note 2: Laptop Ethernet was plugged into facility wall jack that was connected to facility switch, running ping session.				

1.2.2 Input/Output Ports:

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	UCB16 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

1.2.3 EUT Internal Operating Frequencies:

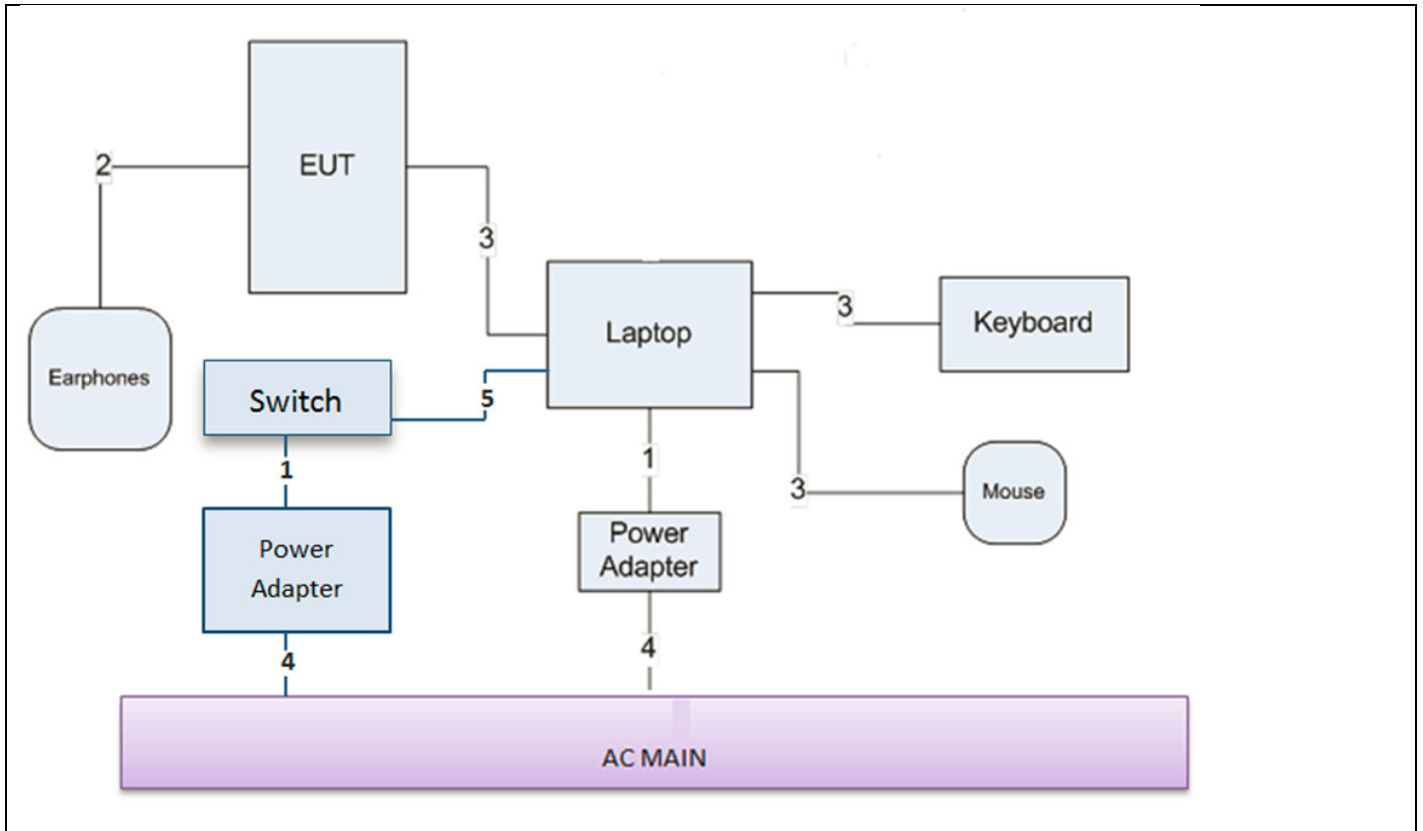
Frequency (MHz)	Description
≤ 2200	The highest operating frequency is 2.2 GHz.

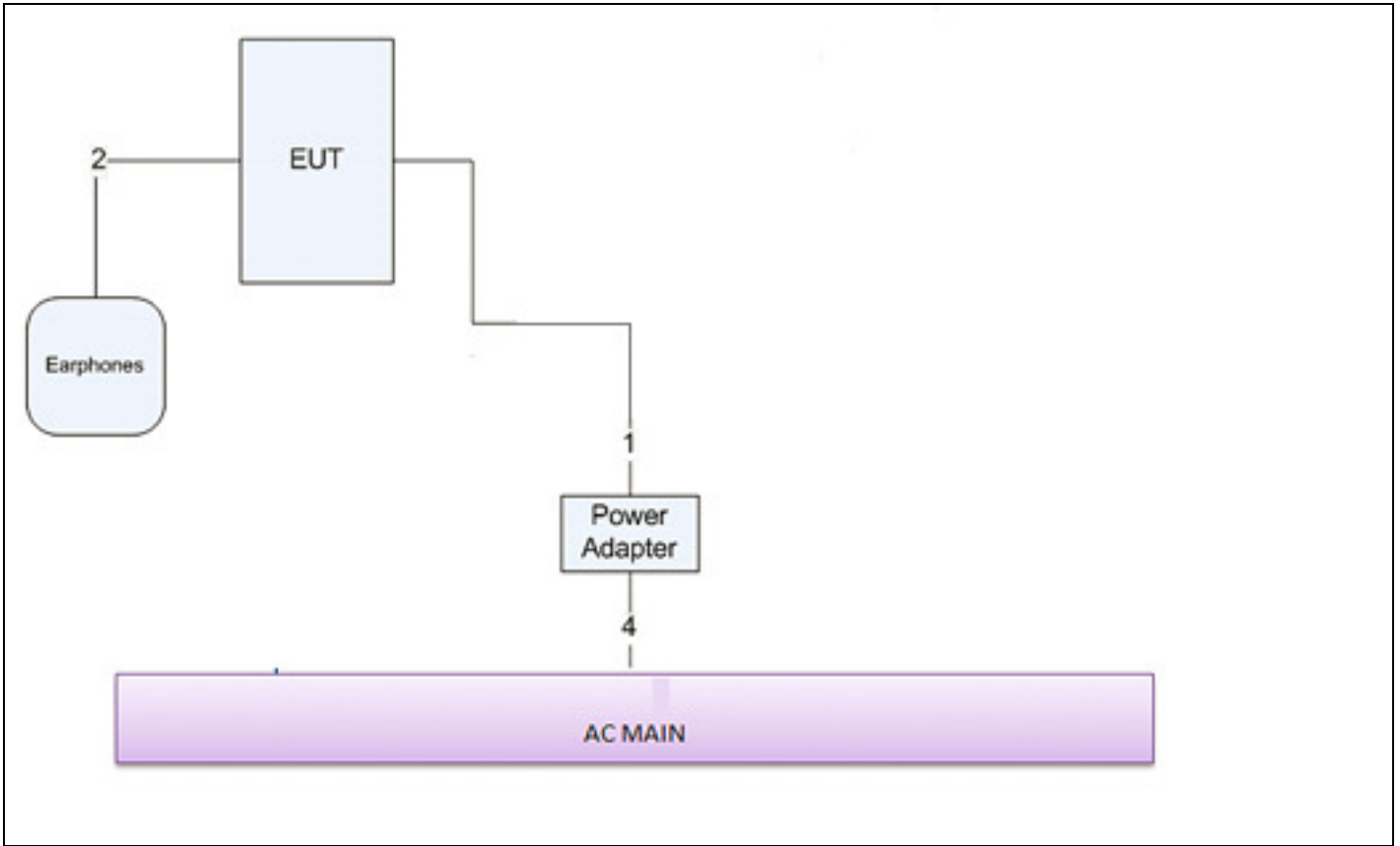
1.2.4 Power Interface:

Mode # /Rated	Voltage (V)	Current (A)	Power (W)	Frequency (DC/AC-Hz)	Phases (#)	Comments
Rated	100-240	-	-	50-60	1	
1	120	-	-	60	1	

1.3 Block Diagram:

The diagram below illustrates the configuration of the equipment above.





1.4 EUT Configurations

Mode #	Description
1	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.
2	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.

1.5 EUT Operation Modes

Mode #	Description
1	Test software exercised the EUT.

1.6 Rational for EUT Configuration

Mode #	Description
1	The selected EUT configuration was chosen to maximize emissions

2.0 Summary

The tests listed in the Summary of Testing section of this report have been performed and the results recorded by UL LLC in accordance with the procedures stated in each test requirement and specification. The applicant determined the list of tests performed were applicable to the Equipment Under Test. As a result, the subject product has been verified to comply or not comply as noted in the Summary of Testing with each test specification. The test results relate only to the items tested.

2.1 Deviations from standard test methods

None

2.2 Device Modifications Necessary for Compliance

None

2.3 Reference Standards

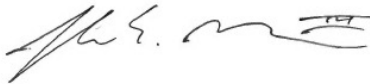
Standard Number	Standard Name	Standard Date
47 CFR Part 15, Subpart B	Radio Frequency Devices – Unintentional Radiators	2015
ICES-003	Information Technology Equipment (ITE) — Limits and methods of measurement	2016

2.4 Results Summary

This product is considered Class B.

Requirement – Test	Result (Compliant / Non-Compliant)*
Conducted Emissions - Mains	Compliant
Radiated Emissions	Compliant

Test Engineer:



John Manser
 EMC Laboratory Technician
 UL – Consumer Technology Division

Reviewer:



Jeff Moser
 EMC Program Manager
 UL – Consumer Technology Division

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3.0 Calibration of Equipment Used for Measurement

All test equipment and test accessories are calibrated on a regular basis. The maximum time between calibrations is one year or the manufacturers' recommendation, whichever is less.

All test equipment calibrations are traceable to the National Institute of Standards and Technology (NIST); therefore, all test data recorded in this report is traceable to NIST.

4.0 EMISSIONS TEST RESULTS

The emissions tests were performed according to following regulations:

----- United States -----

Code of Federal Regulations Title 47	Part 15, Subpart B, Radio Frequency Devices
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Unless specified otherwise in the individual Methods, the tests shall be conducted under the following ambient conditions. Confirmation of these conditions shall be verified at the time the test is conducted.

Ambient Temperature, °C	22.5 ± 2.5	Relative Humidity, %	45 ± 15	Barometric Pressure, mBar	950 ± 150
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Measurement Uncertainty

Test	Uncertainty
Conducted Emissions (0.150-30MHz)	+/- 2.37
Radiated Emissions (30-1000 MHz)	+/- 5.36
Radiated Emissions (1-18 GHz)	+/- 4.32

Note – The above values represent worst-case for each frequency range.

Sample Calculations

Radiated Field Strength and Conducted Emissions data contained within this report is calculated on the following basis:

- Field Strength (dBuV/m) = Meter Reading (dBuV) + AF (dB/m) - Gain (dB) + Cable Loss (dB)
- Conducted Voltage (dBuV) = Meter Reading (dBuV) + Cable Loss (dB) + LISN IL (dB)
- Conducted Current (dBuA) = Meter Reading (dBuV) + Cable Loss (dB) - Transducer Factor (dBohms)

4.1 Test Conditions and Results – MAINS TERMINAL – CONDUCTED EMISSIONS

Test Description	Measurements were made on a ground plane. All power was connected to the system through Artificial Mains Network (AMN). Conducted voltage measurements on mains lines were made at the output of the AMN.	
Basic Standard	FCC Part 15, Subparts A & B in conjunction with ANSI C63.4:2014	
UL LPG	80-EM-S0026	
	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 (dB μ V)	
	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		

Table 1 Conducted Emissions EUT Configuration Settings

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

Table 2 Conducted Emissions Test Equipment

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

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
CBL077	Coax cable, RG223, N-male to BNC-male, 20-ft.	Pasternack	PE3476-240	2015-10-29	2016-10-31
HI0079	Temp/Humid/Pressure Meter	Springfield Precision	PreciseTemp	2015-07-01	2016-07-31
LISN003	LISN, 50-ohm/50-uH, 2-conductor, 25A	Fischer Custom Com.	FCC-LISN-50-25-2-01-550V	2015-08-24	2016-08-31
LISN008	LISN, 50-ohm/50-uH, 2-conductor, 25A (For support gear only.)	Solar Electronics	8012-50-R-24-BNC	2015-09-03	2016-09-30
MM0167	Multi-meter	Agilent	U1232A	2015-08-17	2016-08-31
PRE0101521 (75141)	EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESCI 7	2015-08-26	2016-08-31
TL001	Transient Limiter, 0.009-30MHz	Com-Power	LIT-930A	2015-05-22	2016-05-31
PS214	AC Power Source	Elgar	CW2501M (s/n 1523A02396)	NA	NA
PS215	AC Power Source	Elgar	CW2501M (s/n 1523A02397)	NA	NA
SOFTEMI	EMI Software	UL	Version 9.5	NA	NA

Figure 2 Conducted Emissions Graph (Charger Adapter Mode)

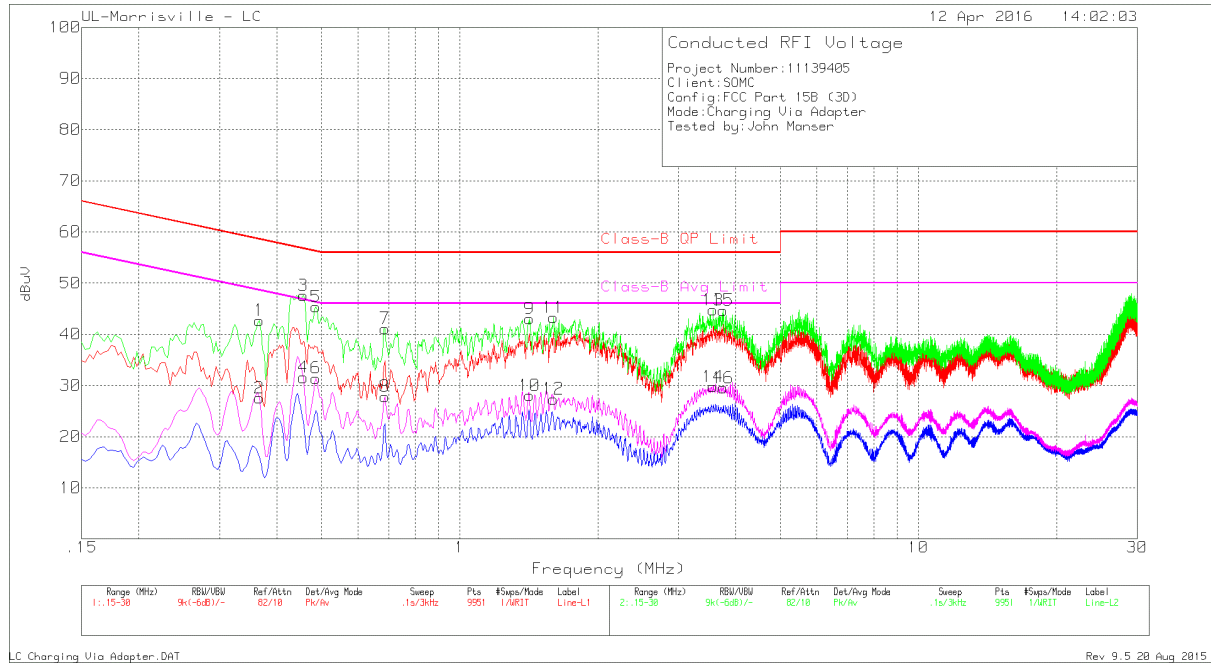


Table 3 Conducted Emissions Data Points (Adapter Mode)

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VCF [dB]	Cbl/Limiter (dB)	Corrected Reading dBuV	Class-B QP Limit	Margin (dB)	Class-B Avg Limit	Margin (dB)
1	.366	32.63	Pk	.1	10	42.73	58.59	-15.86	-	-
2	.366	17.42	Av	.1	10	27.52	-	-	48.59	-21.07
3	.456	37.52	Pk	.1	10	47.62	56.77	-9.15	-	-
4	.456	21.46	Av	.1	10	31.56	-	-	46.77	-15.21
5	.486	35.25	Pk	.1	10	45.35	56.24	-10.89	-	-
6	.486	21.33	Av	.1	10	31.43	-	-	46.24	-14.81
7	.687	31.11	Pk	0	10	41.11	56	-14.89	-	-
8	.687	17.84	Av	0	10	27.84	-	-	46	-18.16
9	1.419	33.03	Pk	0	10	43.03	56	-12.97	-	-
10	1.419	18.06	Av	0	10	28.06	-	-	46	-17.94
11	1.602	33.27	Pk	0	10	43.27	56	-12.73	-	-
12	1.602	17.36	Av	0	10	27.36	-	-	46	-18.64
13	3.57	34.58	Pk	.1	10.1	44.78	56	-11.22	-	-
14	3.57	19.59	Av	.1	10.1	29.79	-	-	46	-16.21
15	3.753	34.48	Pk	.1	10.1	44.68	56	-11.32	-	-
16	3.753	19.31	Av	.1	10.1	29.51	-	-	46	-16.49

Pk - Peak detector

Av - Average detection

LC Charging Via Adapter.DAT

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Figure 3 Conducted Emissions Graph (Laptop Mode)

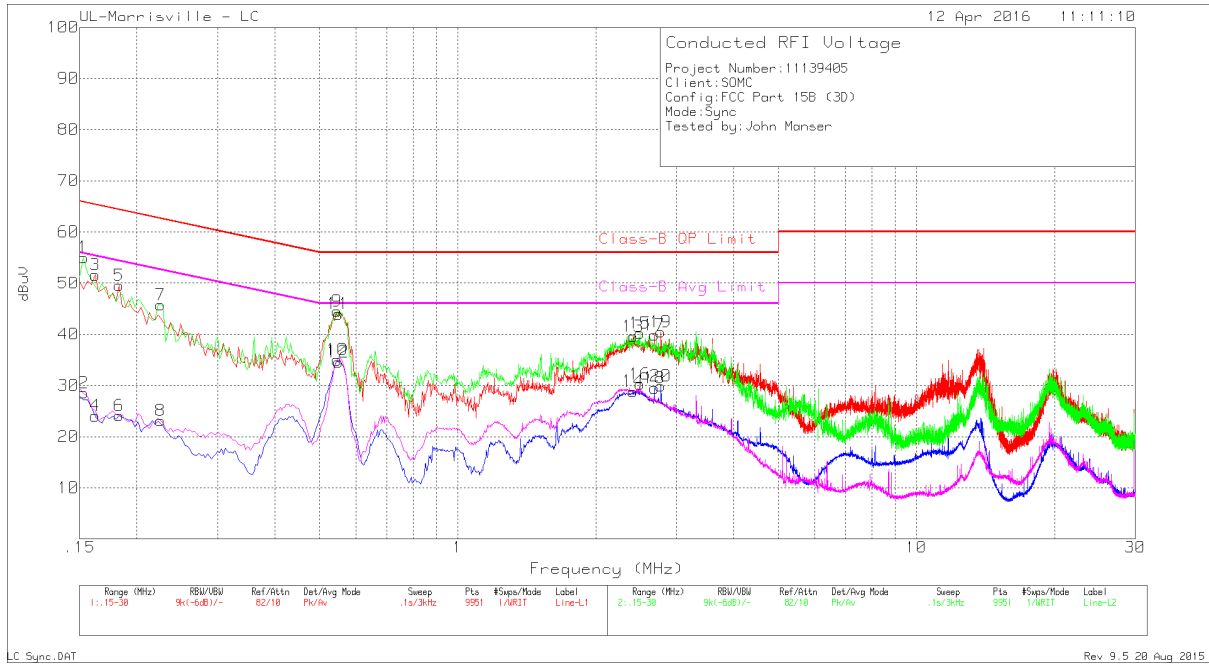


Table 4 Conducted Emissions Data Points (Laptop Mode)

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VCF [dB]	Cbl/Limiter (dB)	Corrected Reading dBuV	Class-B QP Limit	Margin (dB)	Class-B Avg Limit	Margin (dB)
Range 1 (Line 1)										
3	.162	41.4	Pk	.2	10	51.6	65.36	-13.76	-	-
4	.162	13.86	Av	.2	10	24.06	-	-	55.36	-31.3
5	.183	39.35	Pk	.2	10	49.55	64.35	-14.8	-	-
6	.183	13.89	Av	.2	10	24.09	-	-	54.35	-30.26
11	.549	33.87	Pk	.1	10	43.97	56	-12.03	-	-
12	.549	24.5	Av	.1	10	34.6	-	-	46	-11.4
13	2.415	29.41	Pk	.1	10.1	39.61	56	-16.39	-	-
14	2.415	18.64	Av	.1	10.1	28.84	-	-	46	-17.16
17	2.685	29.63	Pk	.1	10.1	39.83	56	-16.17	-	-
18	2.685	19.28	Av	.1	10.1	29.48	-	-	46	-16.52
19	2.772	30.25	Pk	.1	10.1	40.45	56	-15.55	-	-
20	2.772	19.67	Av	.1	10.1	29.87	-	-	46	-16.13
Range 2 (Line 2)										
1	.153	44.83	Pk	.2	10	55.03	65.84	-10.81	-	-
2	.153	18.33	Av	.2	10	28.53	-	-	55.84	-27.31
7	.225	35.64	Pk	.1	10	45.74	62.63	-16.89	-	-
8	.225	13.06	Av	.1	10	23.16	-	-	52.63	-29.47
9	.546	34.48	Pk	0	10	44.48	56	-11.52	-	-
10	.546	25.01	Av	0	10	35.01	-	-	46	-10.99
15	2.496	30.12	Pk	0	10.1	40.22	56	-15.78	-	-
16	2.496	20.15	Av	0	10.1	30.25	-	-	46	-15.75

Pk - Peak detector
 Av - Average detection
 LC Sync.DAT

4.2 Test Conditions and Results – RADIATED EMISSIONS

Test Description	Measurements were made in a 10-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 10-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.	
Basic Standard	FCC Part 15, Subparts A & B in conjunction with ANSI C63.4:2014	
UL LPG	80-EM-S0029	
	Frequency range	Measurement Point
Fully configured sample scanned over the following frequency range	30MHz – 1GHz	10 meter – Class A 3 meter – Class B
	1-18 GHz	3 meter
	18-40 GHz	1 meter
Limits - Class B		
Frequency (MHz)	Limit (dBµV/m)	
	Quasi-Peak	Average
30-88	40	NA
88-216	43.5	NA
216-960	46	NA
960-1000	54	NA
1,000-18,000	NA	54
18,000-40,000	NA	54 ^{Note3}
Note 1 – Distance Correction (DCF) = 20 log (D _{NEW} /D _{FCC}) = 20 log (3/10) = -10.45 dB		
Note 2 - Distance Correction (DCF) = 20 log (D _{NEW} /D _{FCC}) = 20 log (1/10) = -20 dB, if measuring at 1m.		
Note 3 - Distance Correction (DCF) = 20 log (D _{NEW} /D _{FCC}) = 20 log (1/3) = -9.54 dB, if measuring at 1m.		

Table 5 Radiated Emissions EUT Configuration Settings

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

Table 6 Radiated Emissions Test Equipment

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville - South Chamber)

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	30-1000 MHz				
AT0074	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2015-06-10	2016-06-30
	1-18 GHz				
AT0069	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2016-03-07	2017-03-31
	Tuned Dipole Set				
AT0013-AT0016	Four Dipole Antenna Set, 30 to 1000 MHz	EMCO	3121C-DB-1, -2, -3, -4	2015-05-06	2016-05-31
	Gain-Loss Chains				
S-SAC02	Gain-loss string: 30-1000MHz	Various	Various	2015-06-09	2016-06-30
S-SAC03	Gain-loss string: 1-18GHz	Various	Various	2015-08-22	2016-08-31
	Receiver & Software				
SA0025	Spectrum Analyzer	Agilent	N9030A	2016-03-17	2017-03-31
SOFTEMI	EMI Software	UL	Version 9.5	NA	NA
	Additional Equipment used				
HI0050	Temp/Humid/Pressure Meter	Cole-Parmer	99760-00	2015-07-01	2016-07-31

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville - North Chamber)

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	30-1000 MHz				
AT0073	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2015-06-10	2016-06-30
	Gain-Loss Chains				
N-SAC01	Gain-loss string: 0.009-30MHz	Various	Various	2015-10-07	2016-10-31
N-SAC02	Gain-loss string: 30-1000MHz	Various	Various	2015-06-04	2016-06-30
N-SAC03	Gain-loss string: 1-18GHz	Various	Various	2015-09-29	2016-09-30
	Receiver & Software				
SA0027	Spectrum Analyzer	Agilent	N9030A	2016-02-08	2017-02-08
SOFTEMI	EMI Software	UL	Version 9.5	NA	NA
	Additional Equipment used				
HI0079	Temp/Humid/Pressure Meter	Springfield Precision	PreciseTemp	2015-07-01	2016-07-31

Figure 6 Radiated Emissions Graph – 30-1000 MHz (Adapter Charging Mode)

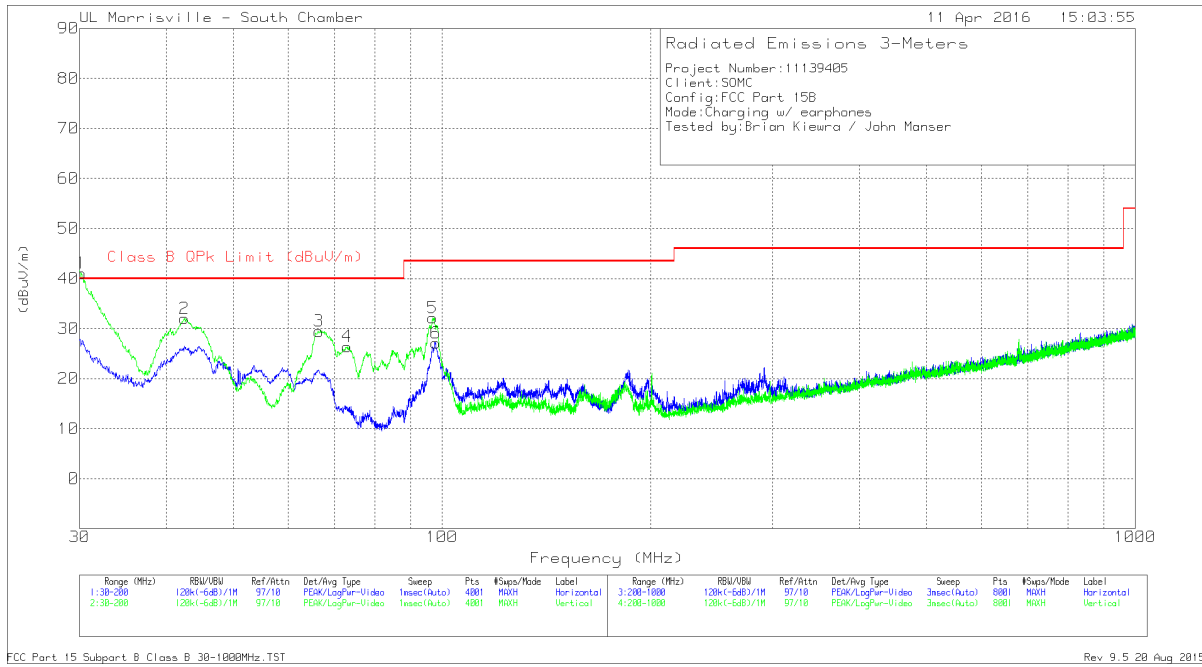


Table 7 Radiated Emissions Data Points - 30-1000 MHz (Adapter Charging Mode)

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF AT0074 (dB/m)	Port 0 Factors	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.0053	42.53	Qp	26.2	-31.8	36.93	40	-3.07	302	108	V
2	42.495	47.05	Pk	16.6	-31.6	32.05	40	-7.95	0-360	102	V
3	66.4438	48.45	Pk	12.2	-31.2	29.45	40	-10.55	0-360	102	V
4	73.01	45.32	Pk	12.4	-31.3	26.42	40	-13.58	0-360	102	V
5	96.9375	49.73	Pk	13.4	-31	32.13	43.52	-11.39	0-360	102	V
6	97.915	44.4	Pk	13.7	-31	27.1	43.52	-16.42	0-360	199	H

Pk - Peak detector

Qp - Quasi-Peak detector

FCC Part 15 Subpart B Class B 30-1000MHz.TST

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Figure 7 Radiated Emissions Graph – 1-18 GHz (Adapter Charging Mode)

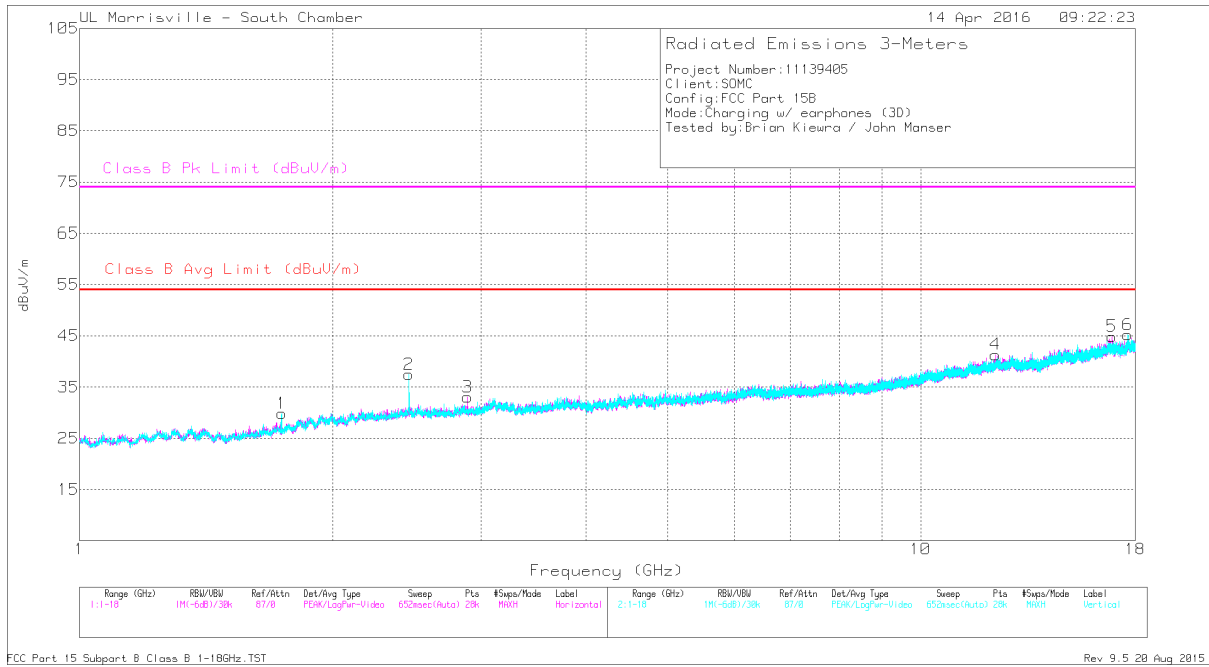


Table 8 Radiated Emissions Data Points – 1-18 GHz (Adapter Charging Mode)

Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0069 (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
1.74	41.5	Pk	29.4	-35.3	35.6	-	-	74	-38.4	97	186	V
1.741	30.9	Av	29.4	-35.3	25	54	-29	-	-	97	186	V
2.465	49.04	Pk	32.4	-34.7	46.74	-	-	74	-27.26	77	132	V
2.466	35.82	Av	32.4	-34.7	33.52	54	-20.48	-	-	77	132	V
2.891	41.32	Pk	32.7	-34.4	39.62	-	-	74	-34.38	347	115	H
2.891	28.62	Av	32.7	-34.4	26.92	54	-27.08	-	-	347	115	H
12.272	35.41	Pk	39	-25.7	48.71	-	-	74	-25.29	247	119	H
12.275	24.65	Av	39	-25.8	37.85	54	-16.15	-	-	247	119	H
16.893	36.17	Pk	41.6	-25.3	52.47	-	-	74	-21.53	293	356	H
16.894	25.49	Av	41.6	-25.3	41.79	54	-12.21	-	-	293	356	H
17.638	24.51	Av	41.2	-23.4	42.31	54	-11.69	-	-	345	248	V
17.639	35.24	Pk	41.2	-23.4	53.04	-	-	74	-20.96	345	248	V

Pk - Peak detector

Av - Average detection

FCC Part 15 Subpart B Class B 1-18GHz.TST

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Figure 8 Radiated Emissions Graph – 30-1000 MHz (Laptop Sync Mode)

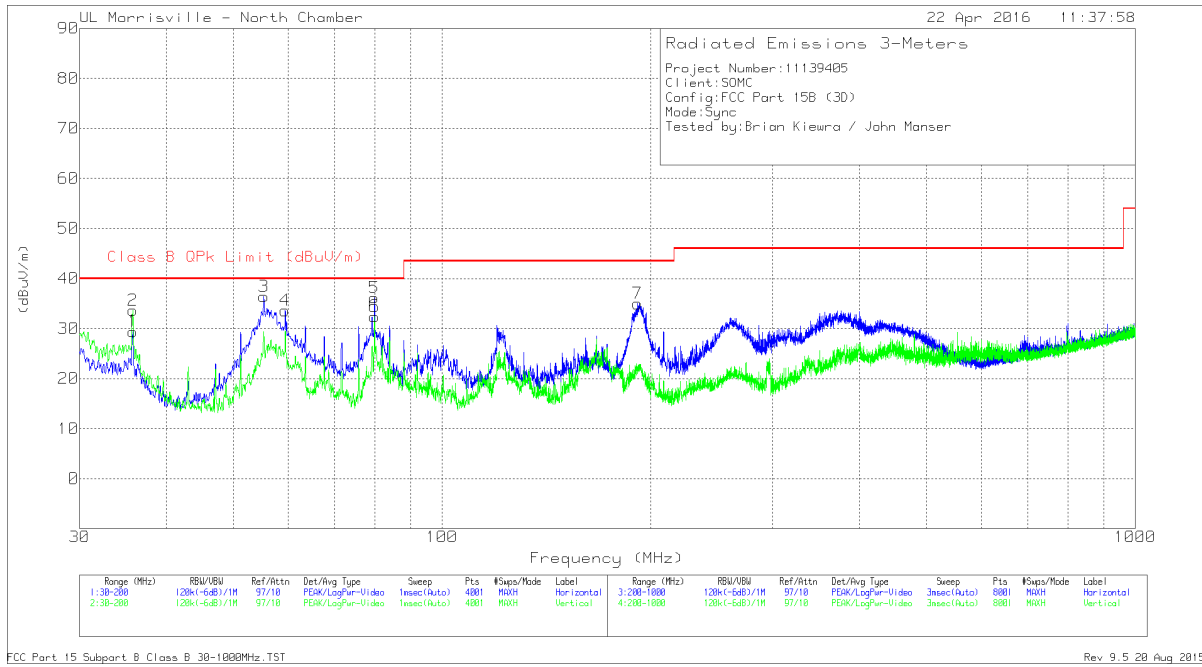


Table 9 Radiated Emissions Data Points - 30-1000 MHz (Laptop Sync Mode)

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0073 AF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	35.78	39.33	Pk	21.7	-31.6	29.43	40	-10.57	0-360	399	H
2	35.78	43.53	Pk	21.7	-31.6	33.63	40	-6.37	0-360	102	V
3	55.2945	55.63	Qp	11.8	-31.3	36.13	40	-3.87	320	394	H
4	59.3675	53.21	Pk	11.8	-31.4	33.61	40	-6.39	0-360	399	H
5	79.8746	54.36	Qp	12	-31.1	35.26	40	-4.74	125	229	H
6	79.895	51.54	Pk	12	-31.1	32.44	40	-7.56	0-360	102	V
7	191.2875	49.19	Pk	16	-30.2	34.99	43.52	-8.53	0-360	103	H

Pk - Peak detector

Qp - Quasi-Peak detector

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Figure 9 Radiated Emissions Graph – 1-18 GHz (Laptop Sync Mode)

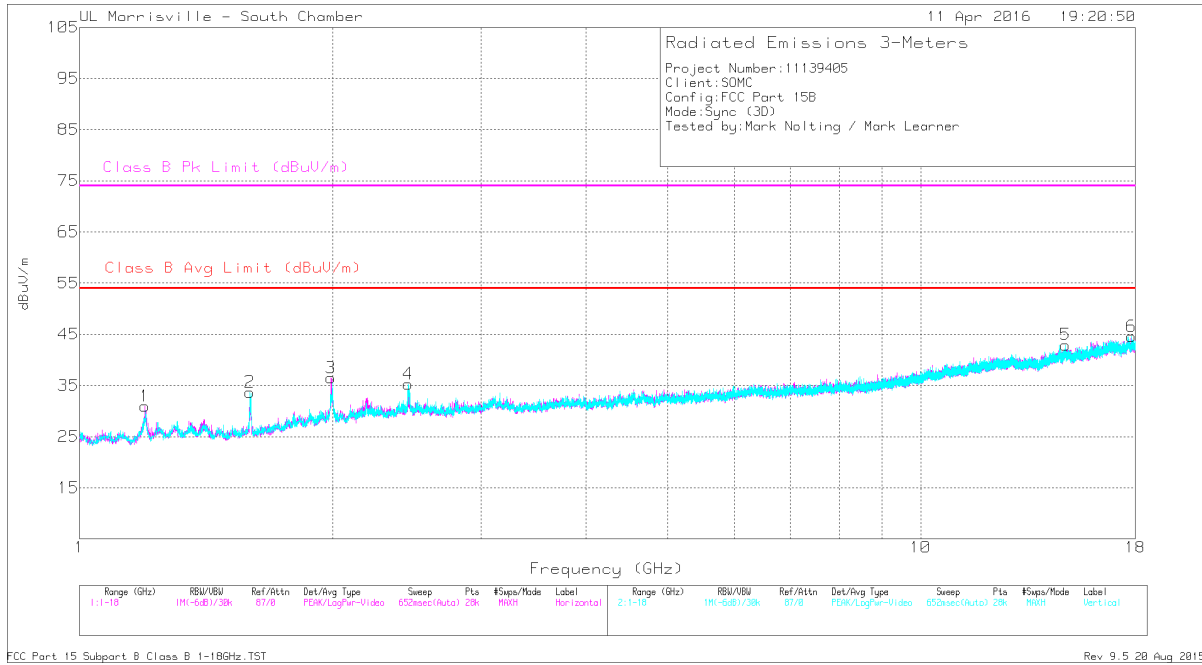


Table 10 Radiated Emissions Data Points – 1-18 GHz (Laptop Sync Mode)

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF AT0069 (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
1.195	54.12	Pk	28.2	-35.9	46.42	-	-	74	-27.58	339	285	H
1.195	35.46	Av	28.2	-35.9	27.76	54	-26.24	-	-	339	285	H
1.598	57.46	Pk	28.3	-35.3	50.46	-	-	74	-23.54	217	182	V
1.598	36.12	Av	28.3	-35.3	29.12	54	-24.88	-	-	217	182	V
1.998	48.92	Pk	31.2	-35	45.12	-	-	74	-28.88	277	123	H
1.998	32.39	Av	31.2	-35	28.59	54	-25.41	-	-	277	123	H
2.46	46.34	Pk	32.3	-34.7	43.94	-	-	74	-30.06	160	318	V
2.46	35.13	Av	32.3	-34.7	32.73	54	-21.27	-	-	160	318	V
14.862	35.04	Pk	39.8	-24.6	50.24	-	-	74	-23.76	206	335	V
14.862	22.28	Av	39.8	-24.6	37.48	54	-16.52	-	-	206	335	V
17.815	34.69	Pk	41.2	-23.8	52.09	-	-	74	-21.91	2	212	V
17.815	22.24	Av	41.2	-23.8	39.64	54	-14.36	-	-	2	212	V

Pk - Peak detector

Av - Average detection

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Appendix A

Accreditations and Authorizations



NVLAP Lab code: 200246-0

NVLAP: The National Institute of Standards and Technology (NIST) administers the National Voluntary Laboratory Accreditation Program (NVLAP). NVLAP is comprised of laboratory accreditation programs (LAPs) which are established on the basis of requests and demonstrated need. Each LAP includes specific calibration and/or test standards and related methods and protocols assembled to satisfy the unique needs for accreditation in a field of testing or calibration. NVLAP accredits public and private laboratories based on evaluation of their technical qualifications and competence to carry out specific calibrations or tests. Accreditation criteria are established in accordance with the U.S. Code of Federal Regulations (CFR, Title 15, Part 285), NVLAP Procedures and General Requirements, and encompass the requirements of ISO/IEC 17025. For a full scope listing see <http://www.nist.gov/nvlap/>