APPLICATION FOR CERTIFICATION

On Behalf of

Philips Lighting(China) Investment Co., Ltd.

LED Lamp

Model No. : 9290011998A

Brand : Philips

FCC ID : 2AGBW9290011998AX

Prepared for

Philips Lighting(China) Investment Co., Ltd.
Building 9, Lane 888, Tian Lin Road, Minhang district, Shanghai, China

Prepared by

Audix Technology (Wujiang) Co., Ltd. EMC Dept.
No. 1289 Jiangxing East Road, the Part of Wujiang Economic Development Zone
Jiangsu China 215200

Tel : +86-512-63403993
Fax :+86-512-63403339

Report Number : ACWE-F1608003

Date of Test : Jul.30~Aug.02, 2016

Date of Report : Aug.11, 2016

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TEST REPORT CERTIFICATION

Applicant	:	Philips Lighting(China) Investment Co., Ltd.
Manufacturer	:	Philips Lighting(China) Investment Co., Ltd.
EUT Description	:	LED Lamp
FCC ID	:	2AGBW9290011998AX
(A) Model No.	:	9290011998A
(B) Brand	:	Philips
(C) Power Supply	:	AC 110-130V, 60Hz
(D) Test Voltage	:	AC 120V, 60Hz

Applicable Standards:

FCC RULES AND REGULATIONS PART 15 SUBPART C, Oct. 2015
ANSI C63.10: 2013

The device described above was tested by Audix Technology (Wujiang) Co., Ltd. EMC Dept. to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart C section 15.207, 15.209&15.247 limits.

The measurement results are contained in this test report and Audix Technology (Wujiang) Co., Ltd. EMC Dept. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this test report shows that the EUT to be technically compliant with the FCC limits.

This test report applies to above tested sample only. This test report shall not be reproduced in part without written approval of Audix Technology (Wujiang) Co., Ltd. EMC Dept.

Date of Test: Jul.30~Aug.02, 2016 Date of Report: Aug.11, 2016

Prepared by : Emma Hu
(Emma Hu/Assistant Administrator)

Reviewer : Danny Sun
(Danny Sun/ Section Manager)

Approved & Authorized Signer : Ken Lu
(Ken Lu/Assistant General Manager)

1. SUMMARY OF MEASUREMENTS AND RESULTS

The EUT has been tested according to the applicable standards and test results are referred as below.

Description of Test Item	Standard	Results	Remark
CONDUCTED EMISSION	FCC 47 CFR Part 15 Subpart C/ Section 15.207 And ANSI C63.10:2013	PASS	Minimum passing margin is 11.44 dB at 0.15 MHz
RADIATED EMISSION	FCC 47 CFR Part 15 Subpart C/ Section 15.209& Section 15.205 And ANSI C63.10:2013	PASS	Minimum passing margin is 6.20 dB at 33.30 MHz
6 dB BANDWIDTH	FCC 47 CFR Part 15 Subpart C/ Section 15.247(a)(2) And ANSI C63.10:2013	PASS	＞500kHz
OUTPUT POWER	FCC 47 CFR Part 15 Subpart C/ Section 15.247(b)(3) And ANSI C63.10:2013	PASS	Minimum passing margin is 27.72 dB at CH 11
BAND EDGES	FCC 47 CFR Part 15 Subpart C/ Section 15.247(d) And ANSI C63.10:2013	PASS	---
POWER SPECTRAL DENSITY	FCC 47 CFR Part 15 Subpart C/ Section 15.247(e) And ANSI C63.10:2013	PASS	Minimum passing margin is 8.282 dB at CH 26
EMISSION LIMITATIONS	FCC 47 CFR Part 15 Subpart C/ Section 15.247(d) And ANSI C63.10:2013	PASS	---

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description	:	LED Lamp
Model No.	:	9290011998A
FCC ID	:	2AGBW9290011998AX
Brand	:	Philips
Applicant	:	Philips Lighting(China) Investment Co., Ltd. Building 9, Lane 888, Tian Lin Road, Minhang district, Shanghai, China
Manufacturer	:	Philips Lighting(China) Investment Co., Ltd. Building 9, Lane 888, Tian Lin Road, Minhang district, Shanghai, China
Radio Technology	:	IEEE 802.15.4 (ZigBee®)
Antenna Gain	:	1.65dBi
Fundamental Range	:	2405 MHz -2480MHz
Tested Frequency	:	2405MHz (CH11) 2450MHz (CH20) 2480MHz (CH26)
Channel Setting Method	:	Channel is changed according to EUT's power on or power off.
Highest Working Frequency	:	2.4GHz
Modulation type	:	O-QPSK
Date of Receipt of Sample	:	Jul.26, 2016
Date of Test	:	Jul.30~Aug.02, 2016

2.2. Description of Test Facility

Name of Firm	:	**Audix Technology (Wujiang) Co., Ltd. EMC Dept.**
Site Location	:	No. 1289 Jiangxing East Road, the Eastern Part of Wujiang Economic Development Zone Jiangsu China 215200
Test Facilities	:	**No.1 Conducted Shielding Enclosure** **No.1 3m Semi-anechoic Chamber** Date of Validity: Mar.30, 2018 FCC Registration No.**:** 897661 IC Registration No.:5183D-2 **RF Fully Chamber**
NVLAP Lab Code	:	200786-0 Valid until on Sep.30, 2016 (NVLAP is a signatory member of ILAC MRA) Remark: This report shall not be imply endorsement, certification or approval by NVLAP, NIST, or any agency of the U.S. Federal Government.

2.3. Measurement Uncertainty

Test Item	Range Frequency	Uncertainty
No.1 Conducted Disturbance Measurement	0.15MHz ~ 30MHz	± 2.65dB
Radiated Disturbance Measurement (At 3m Chamber)	30MHz ~ 300MHz	± 3.18dB
	300MHz ~ 1GHz	± 3.12dB
Radiated Disturbance Measurement (At 3m Chamber)	1GHz ~ 6GHz	± 4.56dB
	6GHz ~ 18GHz	± 5.03dB

Remark: Uncertainty = $ku_c(y)$

Test Item	Uncertainty
6 dB Bandwidth	± 0.16 MHz
Maximum Peak Output Power	± 0.12dB
Band Edges	± 0.38dB
Power Spectral Density	± 0.38dB
Emission Limitations	± 0.38dB

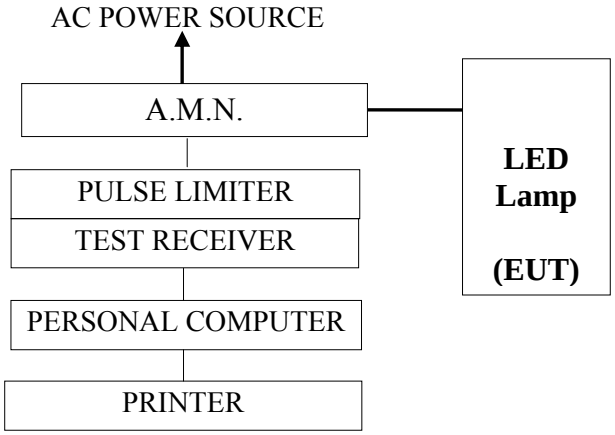
Remark: Uncertainty = $ku_c(y)$

3. CONDUCTED EMISSION MEASUREMET

3.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R & S	ESCI	100839	2016-01-05	2017-01-04
2.	A.M.N	R&S	ESH2-Z5	100153	2016-05-15	2017-05-14
3.	Pulse Limiter	R&S	ESH3-Z2	100605	2016-01-05	2017-01-04
4.	RF Cable	Harbour Industries	RG400	002	2016-01-05	2017-01-04
5.	Software	Audix/e3(6.7.0313)				

3.2. Block Diagram of Test Setup



3.3. Power line Conducted Emission Limit

(FCC Part 15, Section 15.207, Class B)

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dBμV	56 ~ 46 dBμV
500kHz ~ 5MHz	56 dBμV	46 dBμV
5MHz ~ 30MHz	60 dBμV	50 dBμV

Remark1: If the average limit is met when using a Quasi-Peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.

2: The lower limit applies at the band edges.

3.4. Test Procedure

The measuring process is according to ANSI C63.10-2013 and laboratory internal procedure TKC-301-004. (For FCC Part15 Subpart C)

In the conducted emission measurement, the EUT and all peripheral devices were set up on a non-metallic table which was 0.8 meter height above the ground plane, and 0.4 meter far away from the vertical plane. The mains cable of the EUT connected to one Artificial Main Network(AMN). All other unit of the EUT and AE connected to a second Line Impedance Stabilization Network(L.I.S.N.). The telecommunication cable connected to the AE through a Impedance Stabilization Network(ISN) which terminated a 50Ω resistor. For the measurement, the A.M.N measuring port was terminated by a 50Ω measuring equipment and the second L.I.S.N measuring port was terminated by a 50Ω terminator. All measurements were done between the phase lead and the reference ground, and between the neutral lead and the reference ground. All cables or wires placement were verified to find out the maximum emission.

The bandwidth of measuring receiver was set at 9 kHz.

The required frequency band (0.15 MHz ~ 30 MHz) was pre-scanned with peak detector; the final measurement was measured with quasi-peak detector and average detector. (If the average limit is met when using a quasi-peak detector, the average detector is unnecessary).

The emission level is calculated automatically by the test system which uses the following equation:

Emission level (dBμV) = Reading (dBμV) + A.M.N factor (dB) + Cable loss (dB).
(Cable loss includes pulse limiter loss)

3.5. Conducted Emission Measurement Results

For FCC Part15 Subpart C

PASSED.

EUT was performed during this section testing and all the test results are attached in next pages.

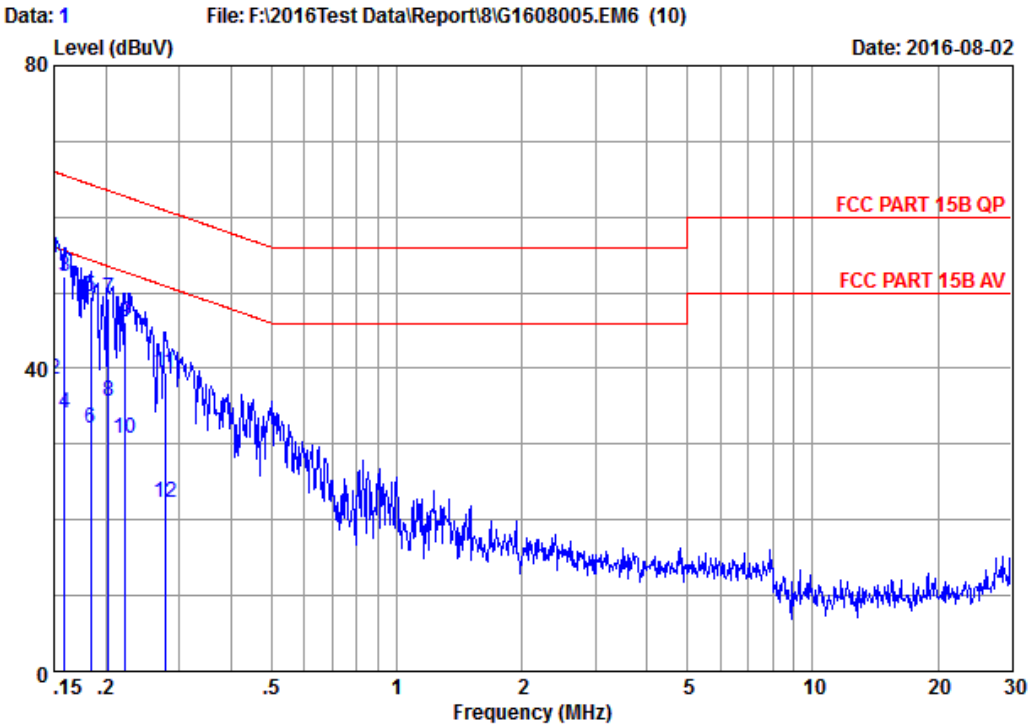
Test Date：Aug.02, 2016 Temperature：23.2℃ Humidity：59%

Mode	Test Condition	Reference Test Data No.	
		Neutral	Line
1	**TX CH11 2405MHz**	**※# 1**	**# 2**
2	TX CH20 2450MHz	# 3	# 4
3	TX CH26 2480MHz	# 5	# 6

NOTE 1- '※'means the worst test mode**.**

NOTE 2- The worst emission is detected at 0.15 MHz with emission level of 54.54 dB (μV) and with QP detector (Limit is 65.98 dB (μV)), when the Neutral of the EUT is connected to AMN.

Audix Technology(Wujiang)Co.,Ltd.
No.1289,Jiang Xing East Road,Eastern Part of WuJiang
Economic Development Zone,JiangSu,China
Tel:0512-63403993 Fax:0512-63403339



Site no.	: No.1 Conducted shielding Enclosure	Data no.	: 1
AMN/LISN	: ESH2-Z5-1605	Phase	: NEUTRAL
Limit	: FCC PART 15B QP		
Env. / Ins.	: 23.2C&59%/ESCI	Engineer	: KM.Tong
EUT	: LED Lamp		
M/N	: 9290011998A		
Power Rating	: 120Vac/60Hz		
Test mode	: TX CH11 2405MHz		
Memo	:		

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	0.15	9.89	44.50	54.54	65.98	11.44	QP
2	0.15	0.15	9.89	28.50	38.54	55.98	17.44	Average
3	0.16	0.15	9.89	42.20	52.24	65.50	13.26	QP
4	0.16	0.15	9.89	24.00	34.04	55.50	21.46	Average
5	0.18	0.15	9.89	39.50	49.54	64.32	14.78	QP
6	0.18	0.15	9.89	22.00	32.04	54.32	22.28	Average
7	0.20	0.15	9.89	39.10	49.14	63.51	14.37	QP
8	0.20	0.15	9.89	25.60	35.64	53.51	17.87	Average
9	0.22	0.15	9.89	36.10	46.14	62.74	16.60	QP
10	0.22	0.15	9.89	20.80	30.84	52.74	21.90	Average
11	0.28	0.15	9.89	29.51	39.55	60.89	21.34	QP
12	0.28	0.15	9.89	12.21	22.25	50.89	28.64	Average

Remarks:
1.Emission Level= AMN factor + Cable loss(Include Pulse Att) + Reading .

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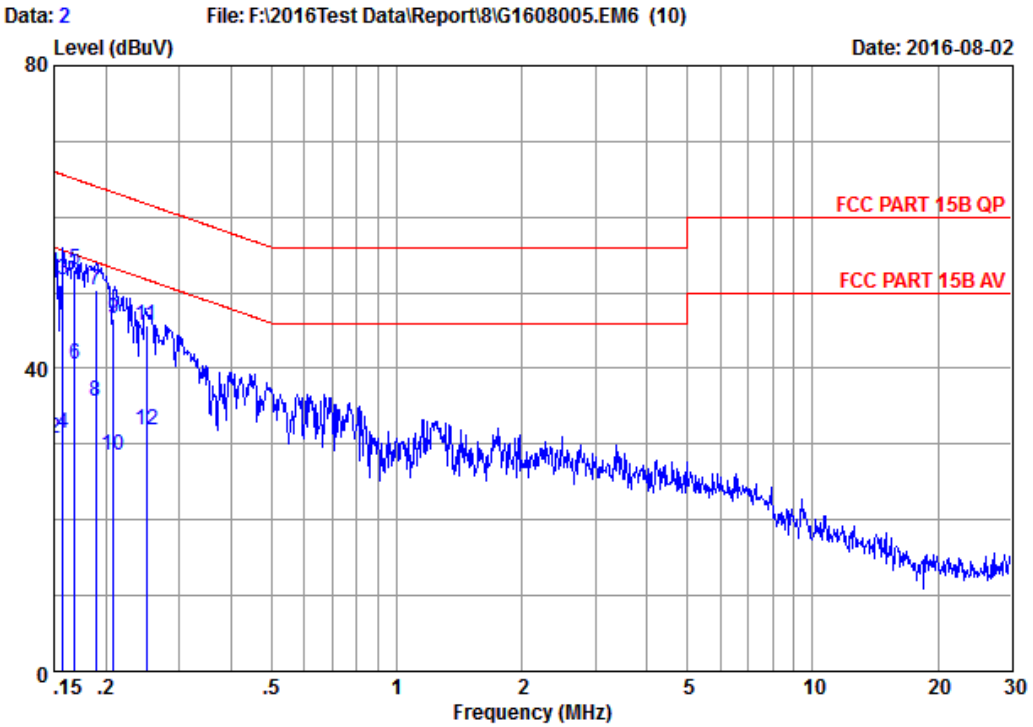
Economic Development Zone,JiangSu,China
Tel:0512-63403993 Fax:0512-63403339



Site no.	: No.1 Conducted shielding Enclosure	Data no.	: 2
AMN/LISN	: ESH2-Z5-1605	Phase	: LINE
Limit	: FCC PART 15B QP		
Env. / Ins.	: 23.2C&59%/ESCI	Engineer	: KM.Tong
EUT	: LED Lamp		
M/N	: 9290011998A		
Power Rating	: 120Vac/60Hz		
Test mode	: TX CH11 2405MHz		
Memo	:		

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15	0.16	9.89	42.60	52.65	66.00	13.35	QP
2	0.15	0.16	9.89	20.80	30.85	56.00	25.15	Average
3	0.16	0.16	9.89	41.60	51.65	65.58	13.93	QP
4	0.16	0.16	9.89	21.40	31.45	55.58	24.13	Average
5	0.17	0.16	9.89	42.90	52.95	65.05	12.10	QP
6	0.17	0.16	9.89	30.40	40.45	55.05	14.60	Average
7	0.19	0.16	9.89	40.30	50.35	64.07	13.72	QP
8	0.19	0.16	9.89	25.70	35.75	54.07	18.32	Average
9	0.21	0.16	9.89	36.50	46.55	63.25	16.70	QP
10	0.21	0.16	9.89	18.50	28.55	53.25	24.70	Average
11	0.25	0.16	9.89	35.71	45.76	61.73	15.97	QP
12	0.25	0.16	9.89	21.71	31.76	51.73	19.97	Average

Remarks:
1.Emission Level= AMN factor + Cable loss(Include Pulse Att) + Reading .

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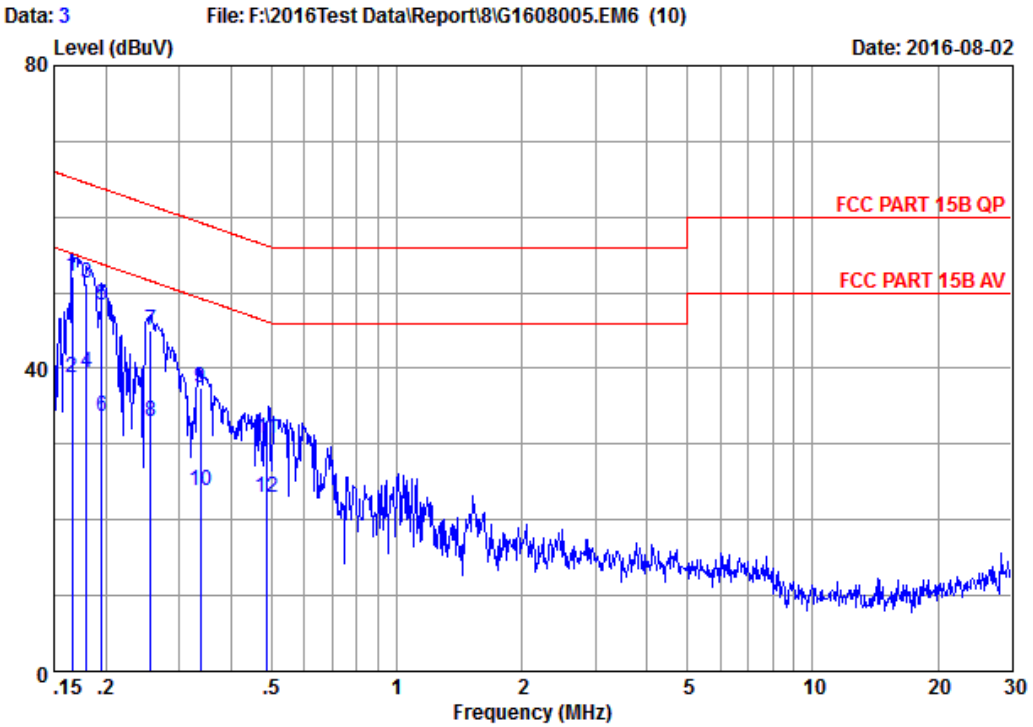

Site no.	: No.1 Conducted shielding Enclosure	Data no.	: 3
AMN/LISN	: ESH2-Z5-1605	Phase	: NEUTRAL
Limit	: FCC PART 15B QP		
Env. / Ins.	: 23.2C&59%/ESCI	Engineer	: KM.Tong
EUT	: LED Lamp		
M/N	: 9290011998A		
Power Rating	: 120Vac/60Hz		
Test mode	: TX CH20 2450MHz		
Memo	:		

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17	0.15	9.89	42.10	52.14	65.15	13.01	QP
2	0.17	0.15	9.89	28.80	38.84	55.15	16.31	Average
3	0.18	0.15	9.89	41.10	51.14	64.50	13.36	QP
4	0.18	0.15	9.89	29.50	39.54	54.50	14.96	Average
5	0.20	0.15	9.89	38.40	48.44	63.81	15.37	QP
6	0.20	0.15	9.89	23.70	33.74	53.81	20.07	Average
7	0.26	0.15	9.89	35.01	45.05	61.55	16.50	QP
8	0.26	0.15	9.89	23.01	33.05	51.55	18.50	Average
9	0.34	0.16	9.90	27.39	37.45	59.25	21.80	QP
10	0.34	0.16	9.90	13.89	23.95	49.25	25.30	Average
11	0.49	0.16	9.90	20.80	30.86	56.21	25.35	QP
12	0.49	0.16	9.90	12.80	22.86	46.21	23.35	Average

Remarks:
1.Emission Level= AMN factor + Cable loss(Include Pulse Att) + Reading .

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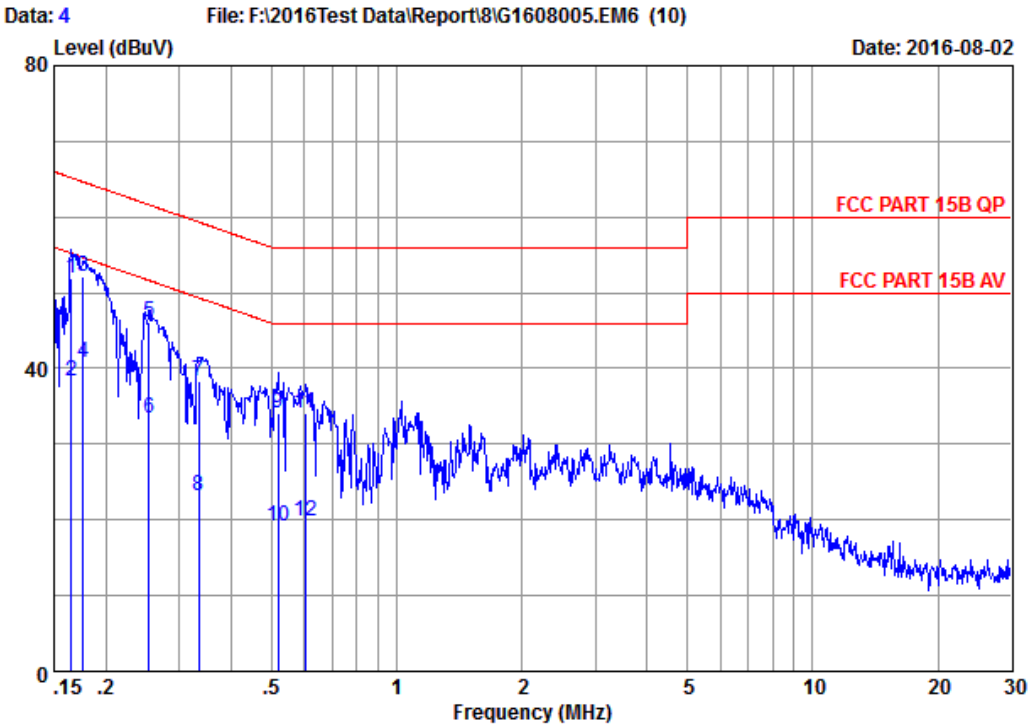

Site no.	: No.1 Conducted shielding Enclosure	Data no.	: 4
AMN/LISN	: ESH2-Z5-1605	Phase	: LINE
Limit	: FCC PART 15B QP		
Env. / Ins.	: 23.2C&59%/ESCI	Engineer	: KM.Tong
EUT	: LED Lamp		
M/N	: 9290011998A		
Power Rating	: 120Vac/60Hz		
Test mode	: TX CH20 2450MHz		
Memo	:		

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17	0.16	9.89	41.90	51.95	65.19	13.24	QP
2	0.17	0.16	9.89	28.20	38.25	55.19	16.94	Average
3	0.18	0.16	9.89	42.00	52.05	64.65	12.60	QP
4	0.18	0.16	9.89	30.70	40.75	54.65	13.90	Average
5	0.25	0.16	9.89	36.01	46.06	61.62	15.56	QP
6	0.25	0.16	9.89	23.31	33.36	51.62	18.26	Average
7	0.33	0.16	9.90	28.30	38.36	59.36	21.00	QP
8	0.33	0.16	9.90	13.10	23.16	49.36	26.20	Average
9	0.52	0.17	9.90	24.00	34.07	56.00	21.93	QP
10	0.52	0.17	9.90	9.20	19.27	46.00	26.73	Average
11	0.60	0.18	9.90	24.00	34.08	56.00	21.92	QP
12	0.60	0.18	9.90	9.70	19.78	46.00	26.22	Average

Remarks:
1.Emission Level= AMN factor + Cable loss(Include Pulse Att) + Reading .

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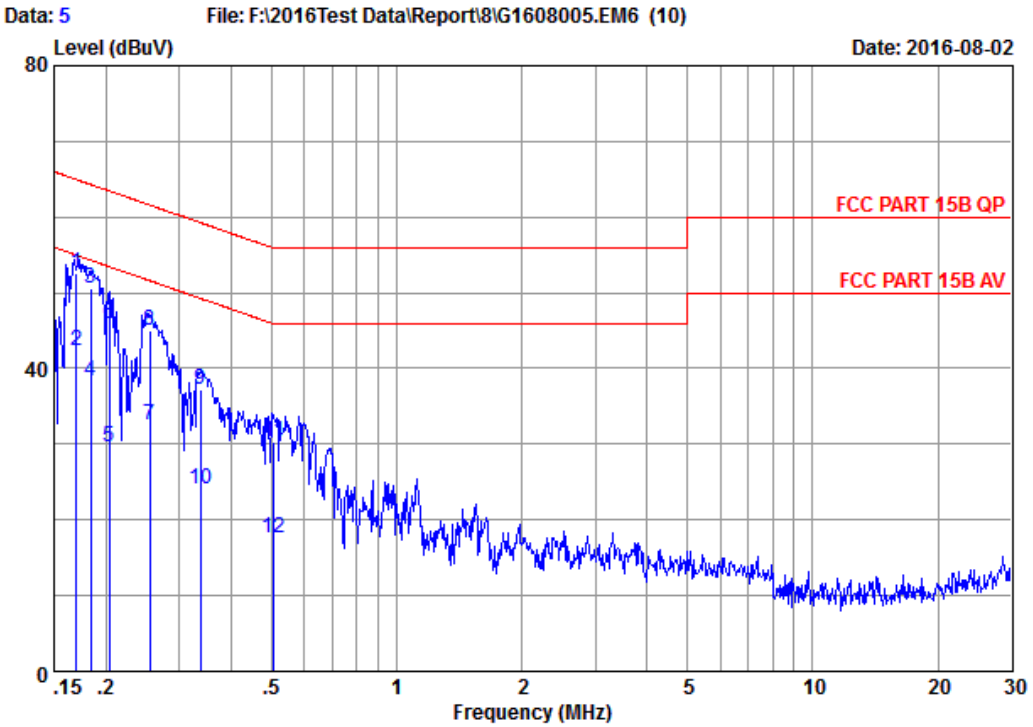

Site no.	: No.1 Conducted shielding Enclosure	Data no.	: 5
AMN/LISN	: ESH2-Z5-1605	Phase	: NEUTRAL
Limit	: FCC PART 15B QP		
Env. / Ins.	: 23.2C&59%/ESCI	Engineer	: KM.Tong
EUT	: LED Lamp		
M/N	: 9290011998A		
Power Rating	: 120Vac/60Hz		
Test mode	: TX CH26 2480MHz		
Memo	:		

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17	0.15	9.89	42.50	52.54	64.97	12.43	QP
2	0.17	0.15	9.89	32.30	42.34	54.97	12.63	Average
3	0.18	0.15	9.89	40.50	50.54	64.31	13.77	QP
4	0.18	0.15	9.89	28.20	38.24	54.31	16.07	Average
5	0.20	0.15	9.89	19.70	29.74	53.44	23.70	Average
6	0.20	0.15	9.89	35.90	45.94	63.44	17.50	QP
7	0.25	0.15	9.89	22.51	32.55	51.60	19.05	Average
8	0.25	0.15	9.89	35.01	45.05	61.60	16.55	QP
9	0.34	0.16	9.90	27.19	37.25	59.26	22.01	QP
10	0.34	0.16	9.90	14.09	24.15	49.26	25.11	Average
11	0.51	0.16	9.90	20.30	30.36	56.00	25.64	QP
12	0.51	0.16	9.90	7.50	17.56	46.00	28.44	Average

Remarks:
1.Emission Level= AMN factor + Cable loss(Include Pulse Att) + Reading .

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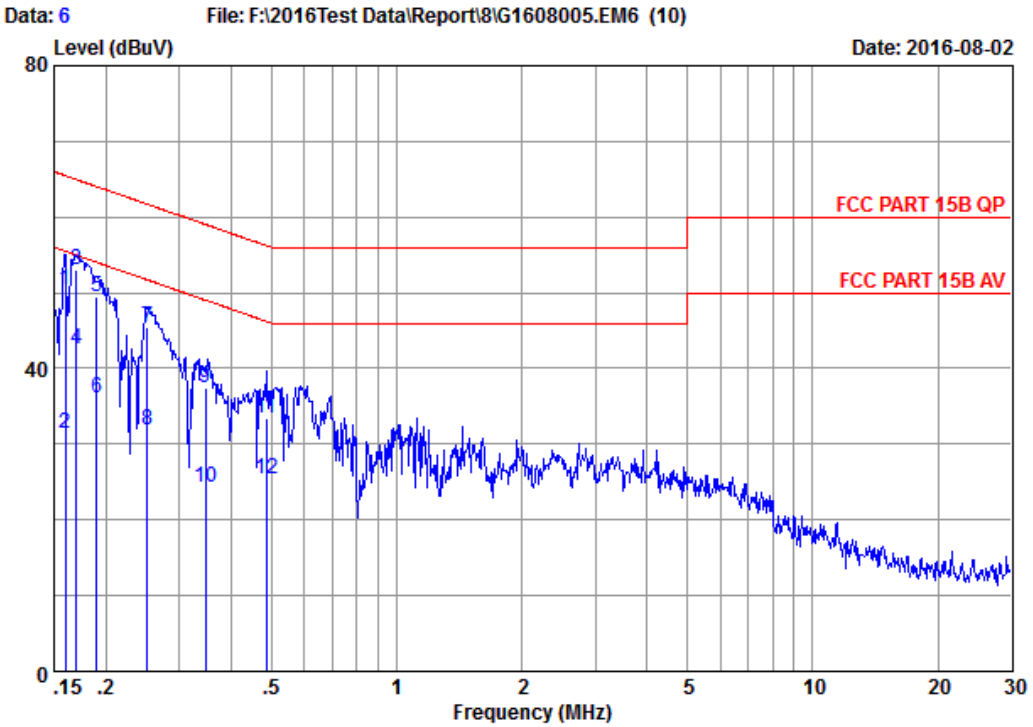


Site no.	: No.1 Conducted shielding Enclosure	Data no.	: 6
AMN/LISN	: ESH2-Z5-1605	Phase	: LINE
Limit	: FCC PART 15B QP		
Env. / Ins.	: 23.2C&59%/ESCI	Engineer	: KM.Tong
EUT	: LED Lamp		
M/N	: 9290011998A		
Power Rating	: 120Vac/60Hz		
Test mode	: TX CH26 2480MHz		
Memo	:		

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16	0.16	9.89	40.20	50.25	65.48	15.23	QP
2	0.16	0.16	9.89	21.30	31.35	55.48	24.13	Average
3	0.17	0.16	9.89	43.00	53.05	64.99	11.94	QP
4	0.17	0.16	9.89	32.40	42.45	54.99	12.54	Average
5	0.19	0.16	9.89	39.50	49.55	64.05	14.50	QP
6	0.19	0.16	9.89	26.00	36.05	54.05	18.00	Average
7	0.25	0.16	9.89	35.41	45.46	61.73	16.27	QP
8	0.25	0.16	9.89	21.91	31.96	51.73	19.77	Average
9	0.35	0.16	9.90	27.40	37.46	59.02	21.56	QP
10	0.35	0.16	9.90	14.20	24.26	49.02	24.76	Average
11	0.49	0.17	9.90	23.30	33.37	56.25	22.88	QP
12	0.49	0.17	9.90	15.30	25.37	46.25	20.88	Average

Remarks:
1.Emission Level= AMN factor + Cable loss(Include Pulse Att) + Reading .

4. RADIATED EMISSION MEASUREMENT

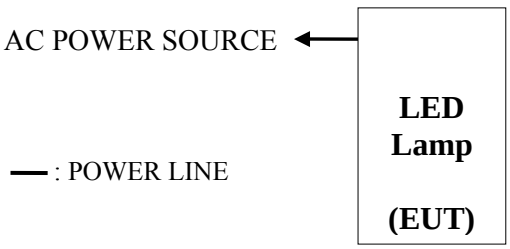
4.1. Test Equipment

The following test equipment was used during the radiated emission measurement:
At 3m Semi-Anechoic Chamber

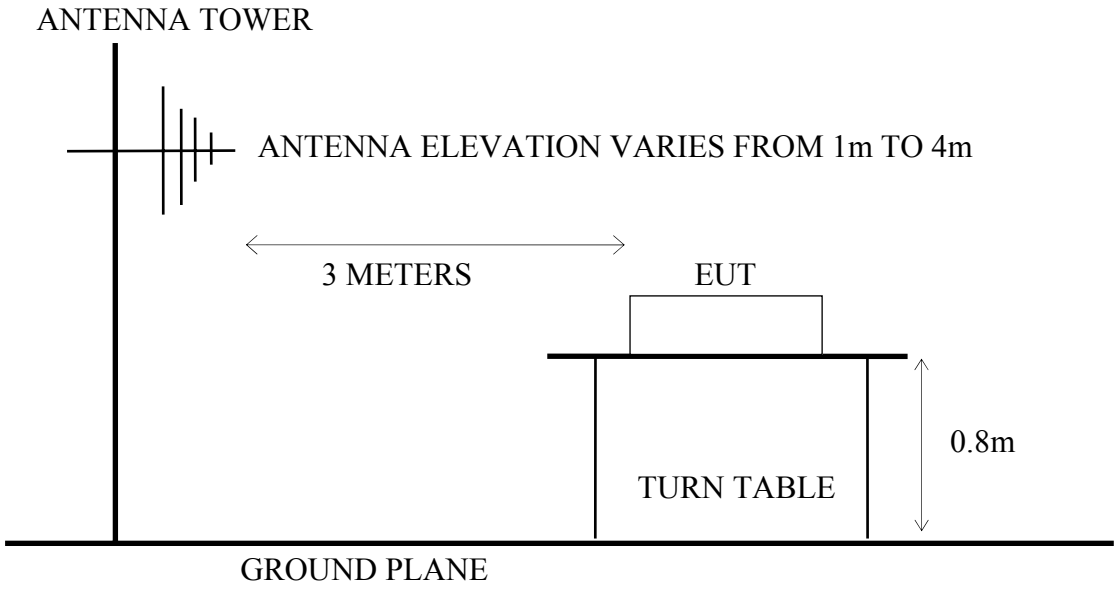
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Preamplifier	Agilent	8449B	3008A02233	2016-01-05	2017-01-04
2.	Preamplifier	Agilent	8447D	2944A10921	2016-07-03	2017-07-02
3.	PXA Signal Analyzer	Agilent	N9030A	MY53120367	2016-05-15	2017-05-14
4.	Test Receiver	R&S	ESCI	100361	2016-01-05	2017-01-04
5.	Bi-log Antenna	Schaffner	CBL6112D	22250	2015-09-02	2016-09-01
6.	Horn Antenna	EMCO	3115	62961	2015-09-23	2016-09-22
7.	RF Cable #1	Yuhang CSYH	cable-3m	001(0.5m)	2016-01-05	2017-01-04
8.	RF Cable #2	Yuhang CSYH	cable-3m	002(0.5m)	2016-01-05	2017-01-04
9.	RF Cable #3	Yuhang CSYH	cable-3m	003(3.0m)	2016-01-05	2017-01-04
10.	Software	Audix/e3(6.7.0313)				

4.2. Block Diagram of Test Setup

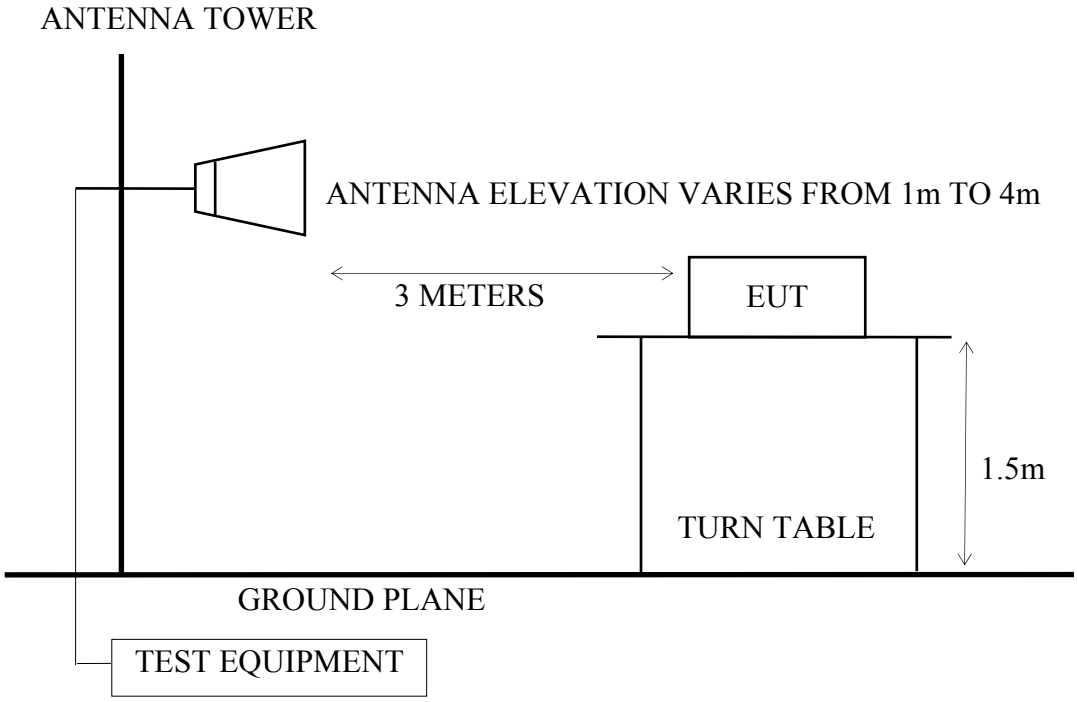
4.2.1. Block Diagram of Test Setup between EUT and simulators



4.2.2. No. 1 3m Semi-Anechoic Chamber Setup Diagram (Test distance:3m) for 30-1000MHz



4.2.3. No. 1 3m Semi-Anechoic Chamber Setup Diagram (Test distance: 3m) for above 1GHz



4.3. Radiated Emission Limits

Radiated Emission Limits (FCC Part15 C, section 15.209, CISPR22)

Frequency MHz	Distance Meters	Field Strengths Limits dBμV/m
30 ~ 88	3	40
88 ~ 216	3	43.5
216 ~ 960	3	46
Above 960	3	54
Above 1000	3	74 (Peak) 54 (Average)

Remark： (1) Emission level (dBμV/m) = 20 log Emission level (μV/m)

(2)The tighter limit applies at the edge between two frequency bands.

4.4. Test Procedure

The measuring process is according to ANSI C63.10-2013 and laboratory internal procedure TKC-301-001. (For FCC Part15 Subpart C)

In the radiated disturbance measurement, the EUT and all simulators were set up on a non-metallic turn table which was 0.8 meter above the ground plane. Measurement distance between EUT and receiving antennas was set at 10 meters at 30MHz~1GHz and 3 meters at 1GHz~6GHz. The measurement distance is the shortest horizontal distance between an imaginary circular periphery which consists of EUT periphery and cables and the reference point of the antenna. During the radiated measurement, the EUT was rotated 360° and receiving antennas were moved from 1 ~ 4 meters for finding maximum emission. Two receiving antennas were used for both horizontal and vertical polarization detection for 30MHz~1GHz, One receiving antennas was used for both horizontal and vertical polarization detection for 1GHz~6GHz (the absorbing material was added when testing of 1GHz~6GHz was done). All cables or wires placement were verified to find out the maximum emission.

The bandwidth of measuring receiver (or spectrum analyzer) was set to:

RBW (120 kHz), VBW (300 kHz) for QP detector below 1GHz
RBW (1 MHz), VBW (1MHz) for Peak detector above 1GHz
RBW (1 MHz), VBW (10Hz) for AV detector above 1GHz

The frequency range from 30MHz to 10^{th} harmonic(25GHz) are checked, and no any emissions were found from 18GHz to 25GHz.

The emission level is calculated automatically by the test system which uses the following equation：

1. For 30MHz-1GHz measurement:
   Emission Level (dBμV/m) = Reading (dBμV)+Antenna Factor (dB/m)+Cable Loss (dB)
2. For Above 1GHz measurement:
   Emission Level (dBμV/m) = Reading (dBμV)+Antenna Factor (dB/m)+Cable Loss(dB)
   -Pre-amplifier factor (dB)

The three orthogonal planes have been all tested, and the data of the worst mode XZ plan(in Horizontal) & XY plan(in Vertical) is shown in the report.

4.5. Measurement Results

PASSED

4.5.1. For Restricted Bands:

The EUT was tested in restricted bands and all the test results are listed in section 5.7 & 5.8. (The restricted bands defined in part 15.205(a))

For Frequency range：below 1GHz

No.	Test Mode and Frequency		Reference Test Data No.	
			Horizontal	Vertical
1.	Transmitting	2405MHz (Channel 11)	# 7	# 8
2.		2450MHz (Channel 20)	# 9	# 10
3.		2480MHz (Channel 26)	# 11	# 12

For Frequency range：above 1GHz

No.	Test Mode and Frequency		Reference Test Data No.	
			Horizontal	Vertical
1.	Transmitting	2405MHz (Channel 11)	# 13	# 14
2.		2450MHz (Channel 20)	# 15	# 16
3.		2480MHz (Channel 26)	# 17	# 18

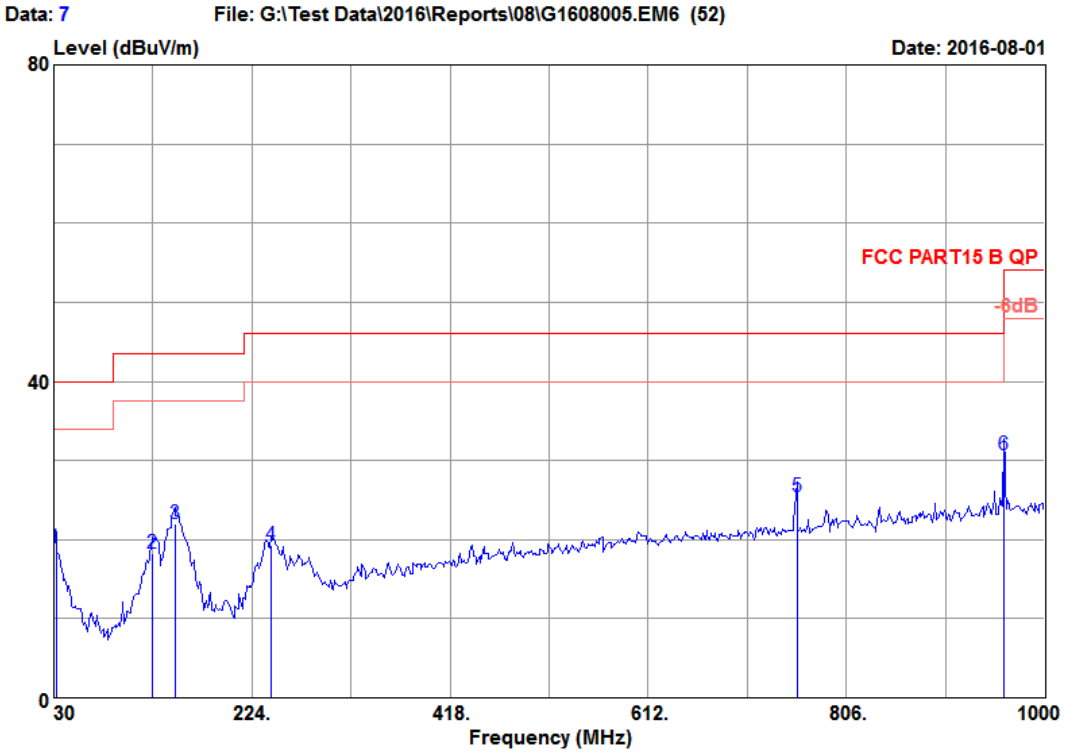
4.5.2. For Band Edge Emission

The EUT was tested in restricted bands and all the test results are listed in section 5.9. The restricted bands defined in part 15.205(a)

No.	Test Mode and Frequency		Reference Test Data No.	
			Horizontal	Vertical
1.	Transmitting	2405MHz (Channel 11)	# 19, # 21	# 20, # 22
2.		2480MHz (Channel 26)	# 23, # 25	# 24, # 26

4.6. Restricted Bands Measurement Results (For Below 1GHz)

Audix Technology(Wujiang)Co.,Ltd.
No.1289,Jiang Xing East Road,The Eastern Part of Wu Jiang
Economic Development Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993



Site NO. : 3m chamber
Dis. / Ant. : 3m 6112D(22250)-1510
Limit : FCC PART15 B QP
Env. / Ins. : 20.3*C&42%/ESCI
EUT : LED lamp
M/N : 9290011998A
Power Rating : 120Vac/60Hz
Test Mode : TX CH11 2405MHz
Memo :

Data NO. :7
Ant. pol. : HORIZONTAL

Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.94	20.20	0.48	25.61	18.94	40.00	21.06	QP
2	126.03	13.21	0.96	31.27	18.34	43.50	25.16	QP
3	148.34	12.14	1.05	35.88	22.06	43.50	21.44	QP
4	242.43	12.53	1.40	32.06	19.27	46.00	26.73	QP
5	757.50	20.52	2.72	29.78	25.34	46.00	20.66	QP
6	960.23	22.12	3.22	32.38	30.70	54.00	23.30	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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No.1289,Jiang Xing East Road,The Eastern Part of Wu Jiang
Economic Development Zone,JiangSu,China
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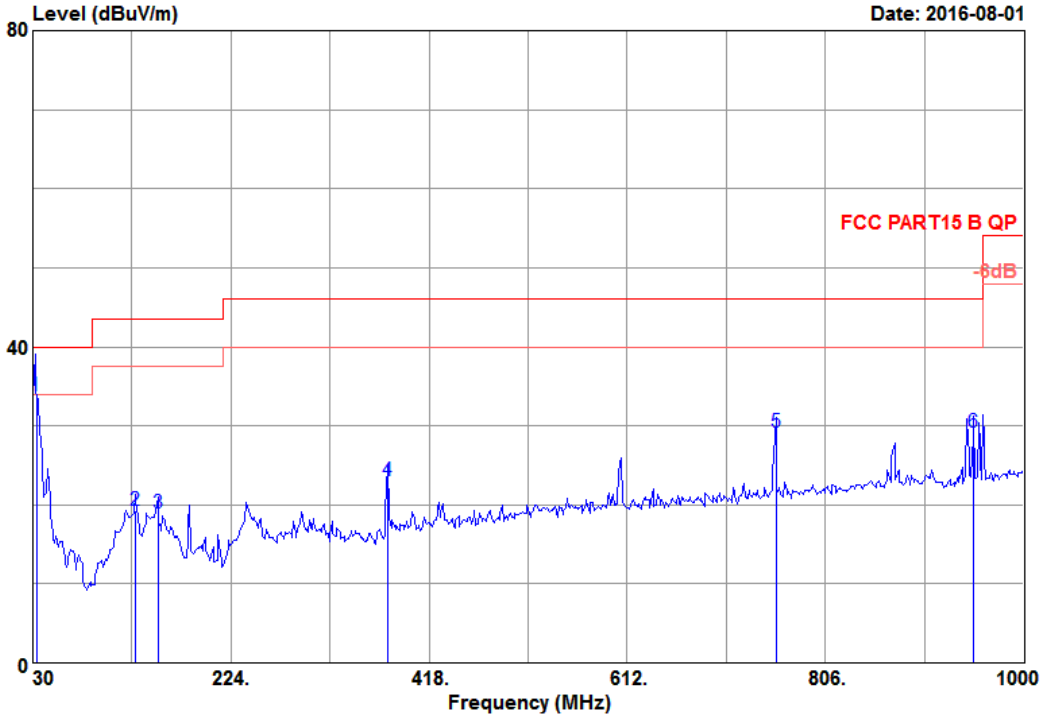
Data: 8 File: G:\Test Data\2016\Reports\08\G1608005.EM6 (52)



Site NO. : 3m chamber
Dis. / Ant. : 3m 6112D(22250)-1510
Limit : FCC PART15 B QP
Env. / Ins. : 20.3*C&42%/ESCI
EUT : LED lamp
M/N : 9290011998A
Power Rating : 120Vac/60Hz
Test Mode : TX CH11 2405MHz
Memo :

Data NO. :8
Ant. pol. : VERTICAL

Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	33.30	19.65	0.49	41.00	33.80	40.00	6.20	QP
2	129.91	13.15	0.98	32.25	19.30	43.50	24.20	QP
3	152.22	11.76	1.07	33.12	18.96	43.50	24.54	QP
4	377.26	16.15	1.81	32.30	23.12	46.00	22.88	QP
5	757.50	20.52	2.72	33.54	29.10	46.00	16.90	QP
6	951.50	22.06	3.19	31.05	29.26	46.00	16.74	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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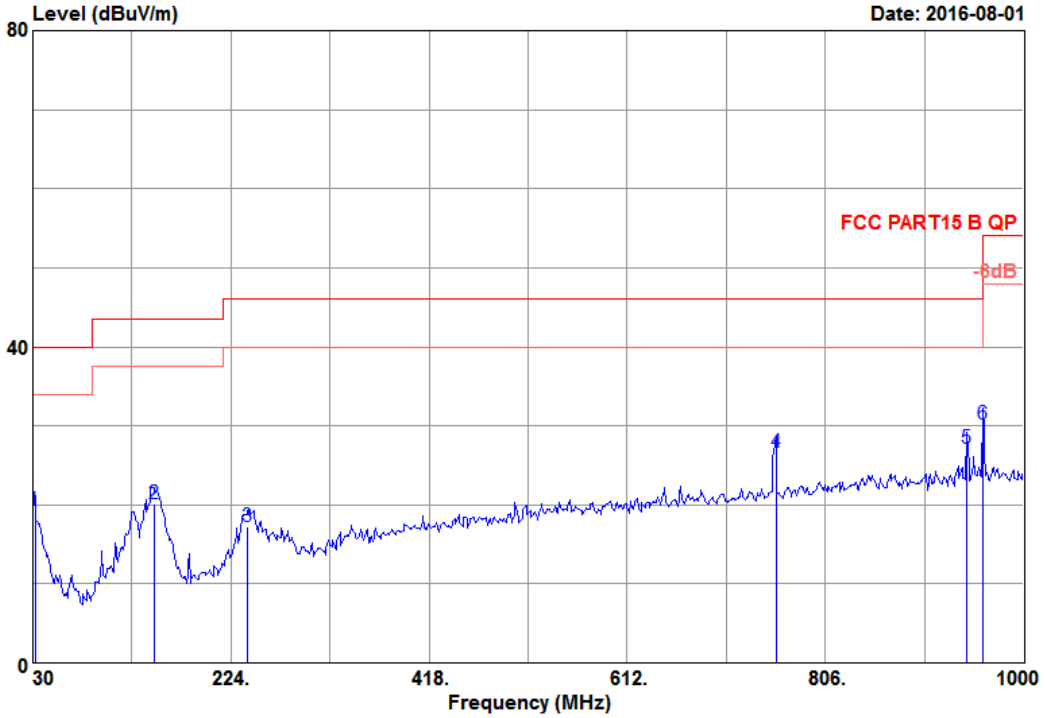
No.1289,Jiang Xing East Road,The Eastern Part of Wu Jiang
Economic Development Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993

Data: 9 File: G:\Test Data\2016\Reports\08\G1608005.EM6 (52)



Site NO. : 3m chamber
Dis. / Ant. : 3m 6112D(22250)-1510
Limit : FCC PART15 B QP
Env. / Ins. : 20.3*C&42%/ESCI
EUT : LED lamp
M/N : 9290011998A
Power Rating : 120Vac/60Hz
Test Mode : TX CH20 2450MHz
Memo :

Data NO. :9
Ant. pol. : HORIZONTAL

Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.94	20.20	0.48	25.88	19.21	40.00	20.79	QP
2	148.34	12.14	1.05	33.96	20.14	43.50	23.36	QP
3	240.49	12.38	1.39	30.20	17.25	46.00	28.75	QP
4	757.50	20.52	2.72	31.05	26.61	46.00	19.39	QP
5	944.71	22.01	3.17	29.06	27.18	46.00	18.82	QP
6	960.23	22.12	3.22	31.85	30.17	54.00	23.83	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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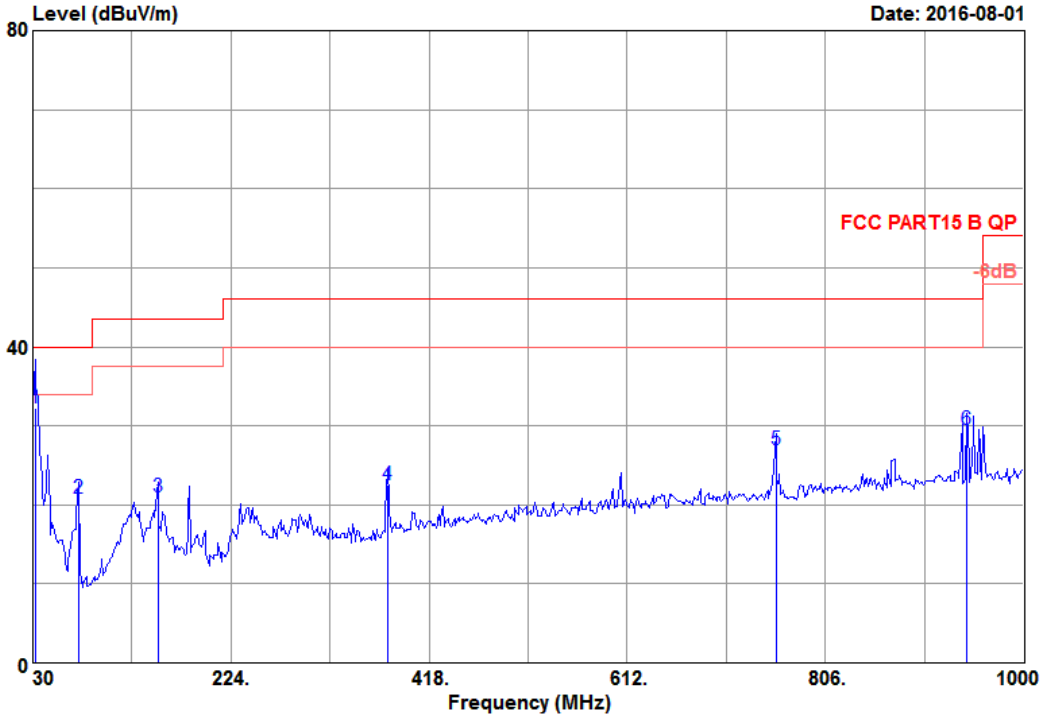
No.1289,Jiang Xing East Road,The Eastern Part of Wu Jiang
Economic Development Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993

Data: 10 File: G:\Test Data\2016\Reports\08\G1608005.EM6 (52)



Site NO. : 3m chamber
Dis. / Ant. : 3m 6112D(22250)-1510
Limit : FCC PART15 B QP
Env. / Ins. : 20.3*C&42%/ESCI
EUT : LED lamp
M/N : 9290011998A
Power Rating : 120Vac/60Hz
Test Mode : TX CH20 2450MHz
Memo :

Data NO. :10
Ant. pol. : VERTICAL

Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	32.40	20.20	0.48	38.90	32.24	40.00	7.76	QP
2	74.62	8.63	0.74	38.77	20.89	40.00	19.11	QP
3	152.22	11.76	1.07	35.07	20.91	43.50	22.59	QP
4	377.26	16.15	1.81	31.67	22.49	46.00	23.51	QP
5	757.50	20.52	2.72	31.47	27.03	46.00	18.97	QP
6	944.71	22.01	3.17	31.48	29.60	46.00	16.40	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

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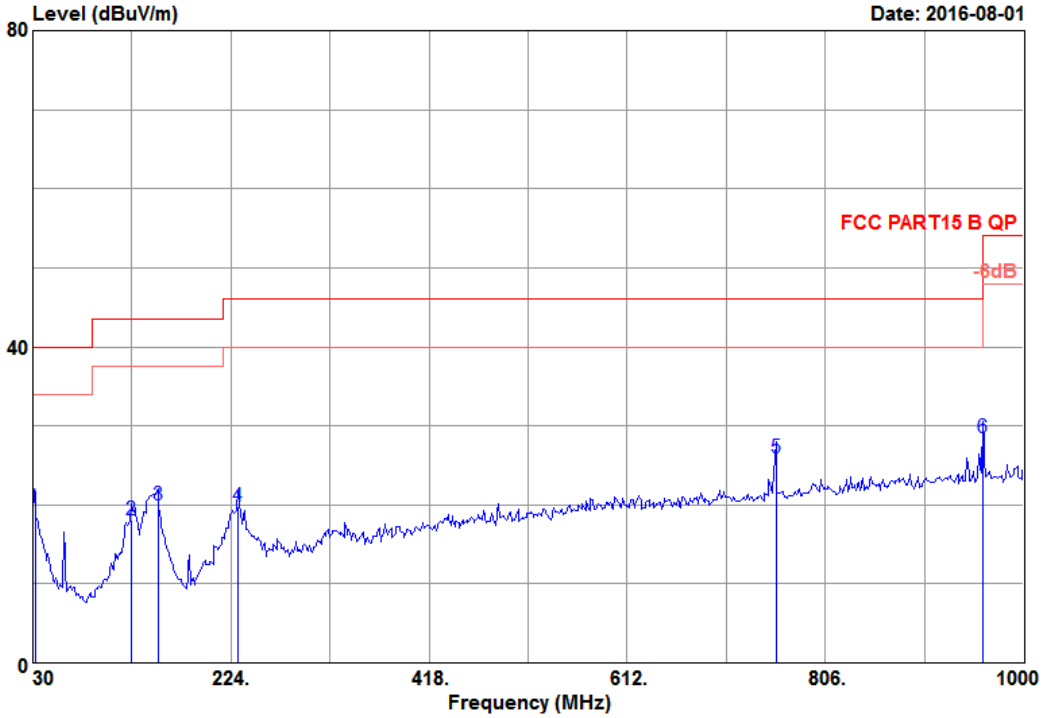
No.1289,Jiang Xing East Road,The Eastern Part of Wu Jiang
Economic Development Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993

Data: 11 File: G:\Test Data\2016\Reports\08\G1608005.EM6 (52)



Site NO. : 3m chamber
Dis. / Ant. : 3m 6112D(22250)-1510
Limit : FCC PART15 B QP
Env. / Ins. : 20.3*C&42%/ESCI
EUT : LED lamp
M/N : 9290011998A
Power Rating : 120Vac/60Hz
Test Mode : TX CH26 2480MHz
Memo :

Data NO. :11
Ant. pol. : HORIZONTAL

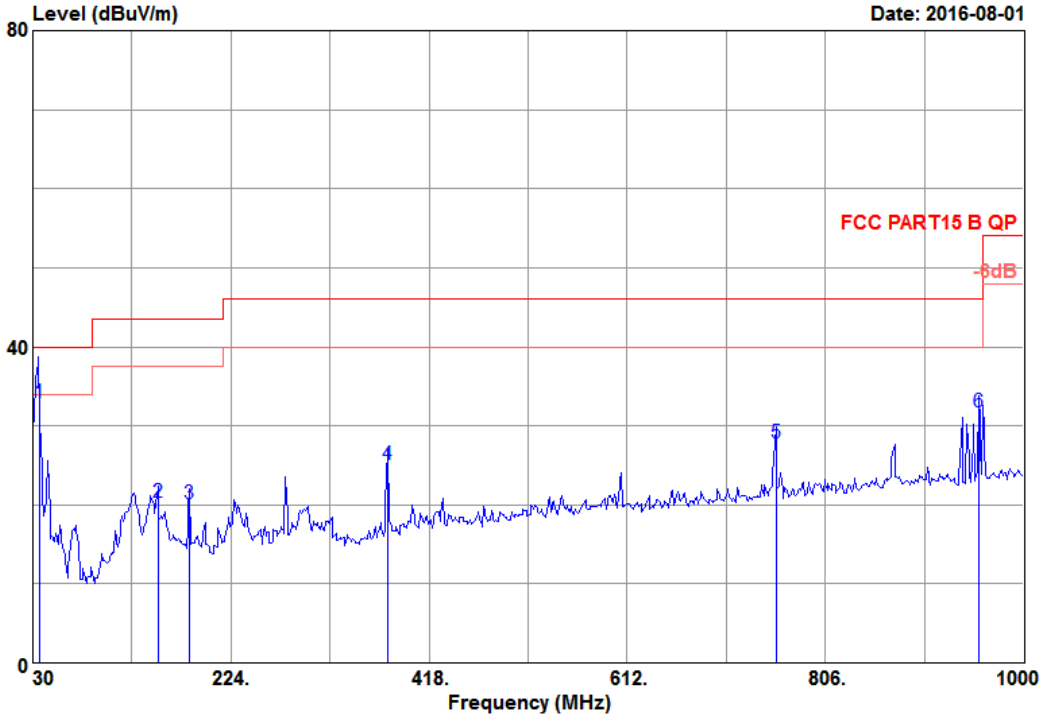
Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.94	20.20	0.48	26.27	19.60	40.00	20.40	QP
2	126.03	13.21	0.96	30.99	18.06	43.50	25.44	QP
3	152.22	11.76	1.07	34.19	20.03	43.50	23.47	QP
4	230.79	11.58	1.36	33.65	19.85	46.00	26.15	QP
5	757.50	20.52	2.72	30.35	25.91	46.00	20.09	QP
6	960.23	22.12	3.22	30.22	28.54	54.00	25.46	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

Audix Technology(Wujiang)Co.,Ltd.
No.1289,Jiang Xing East Road,The Eastern Part of Wu Jiang
Economic Development Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993

Data: 12 File: G:\Test Data\2016\Reports\08\G1608005.EM6 (52)



Site NO. : 3m chamber
Dis. / Ant. : 3m 6112D(22250)-1510
Limit : FCC PART15 B QP
Env. / Ins. : 20.3*C&42%/ESCI
EUT : LED lamp
M/N : 9290011998A
Power Rating : 120Vac/60Hz
Test Mode : TX CH26 2480MHz
Memo :

Data NO. :12
Ant. pol. : VERTICAL

Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	35.94	18.00	0.51	41.80	32.98	40.00	7.02	QP
2	152.22	11.76	1.07	34.55	20.39	43.50	23.11	QP
3	183.26	10.09	1.19	35.66	20.07	43.50	23.43	QP
4	377.26	16.15	1.81	34.25	25.07	46.00	20.93	QP
5	757.50	20.52	2.72	32.27	27.83	46.00	18.17	QP
6	956.35	22.09	3.21	33.54	31.81	46.00	14.19	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

4.7. Restricted Bands Measurement Results (For Above 1GHz)

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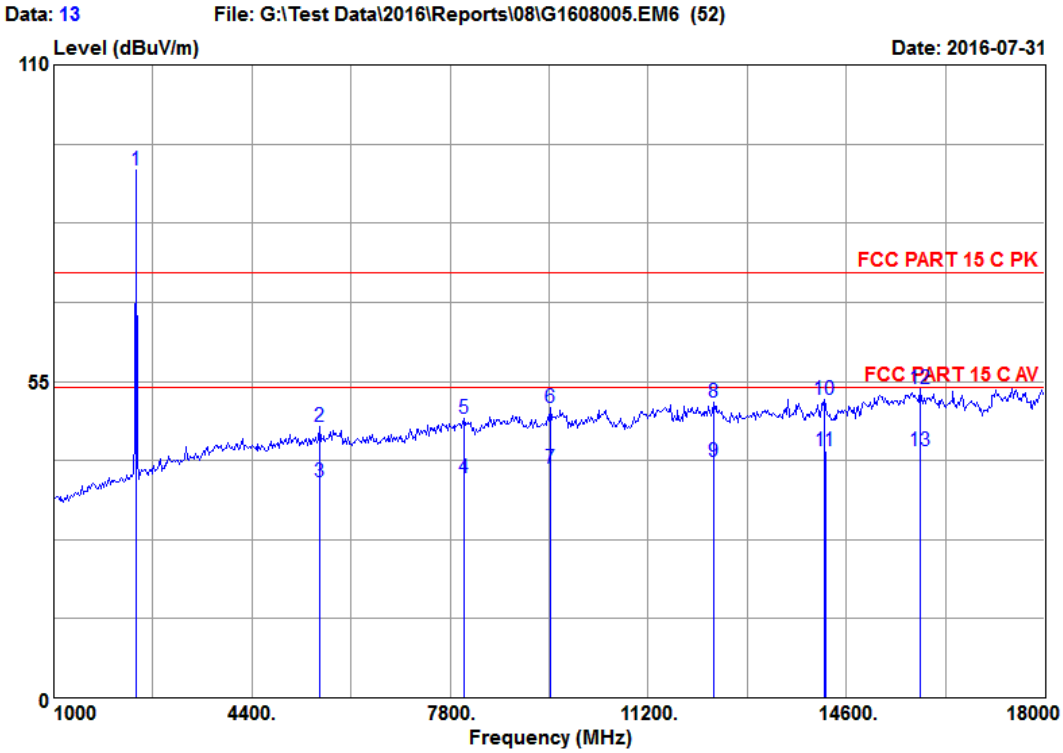
No.1289,Jiang Xing East Road,The Eastern Part of Wu Jiang
Economic Development Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62961 1509
Limit : FCC PART 15 C PK
Env. / Ins. : 20.3*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998A
Power Rating: 120Vac/60Hz
Test Mode : TX CH11 2405MHz
Memo :

Data NO. : 13
Ant. pol. : HORIZONTAL
Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m	Limits (dBuV/m)	Margin (dB)	Remark
1	2407.00	28.11	5.09	93.06	34.50	91.76	74.00	-17.76	Peak
2	5557.00	34.13	8.06	38.86	33.90	47.15	74.00	26.85	Peak
3	5558.25	34.13	8.06	29.25	33.90	37.54	54.00	16.46	Average
4	8030.25	36.84	9.60	25.92	34.12	38.24	54.00	15.76	Average
5	8035.00	36.84	9.60	36.29	34.12	48.61	74.00	25.39	Peak
6	9526.00	38.25	10.43	36.21	34.45	50.44	74.00	23.56	Peak
7	9528.36	38.25	10.43	25.75	34.45	39.98	54.00	14.02	Average
8	12319.00	39.21	11.77	33.84	33.37	51.45	74.00	22.55	Peak
9	12325.45	39.21	11.77	23.48	33.37	41.09	54.00	12.91	Average
10	14230.00	41.82	12.92	29.00	31.92	51.82	74.00	22.18	Peak
11	14235.75	41.84	12.92	20.16	31.92	43.00	54.00	11.00	Average
12	15868.00	37.67	14.30	35.50	33.85	53.62	74.00	20.38	Peak
13	15870.38	37.67	14.30	24.85	33.85	42.97	54.00	11.03	Average

Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.
2. The emission levels that are 20dB below the official limit are not reported.

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Economic Development Zone,JiangSu,China
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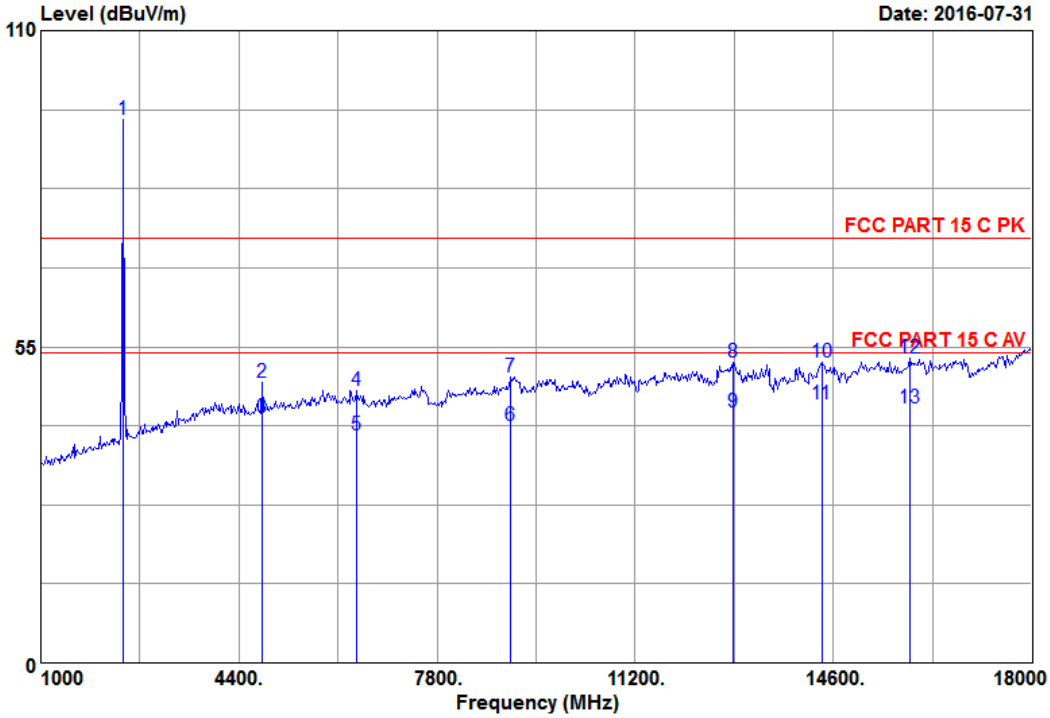
Data: 14 File: G:\Test Data\2016\Reports\08\G1608005.EM6 (52)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62961 1509
Limit : FCC PART 15 C PK
Env. / Ins. : 20.3*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998A
Power Rating: 120Vac/60Hz
Test Mode : TX CH11 2405MHz
Memo :

Data NO. : 14
Ant. pol. : VERTICAL
Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2407.00	28.11	5.09	95.93	34.50	94.63	74.00	-20.63	Peak
2	4801.00	32.86	7.32	42.59	33.95	48.82	74.00	25.18	Peak
3	4805.95	32.86	7.32	36.45	33.95	42.68	54.00	11.32	Average
4	6418.00	34.48	8.66	38.24	33.94	47.44	74.00	26.56	Peak
5	6420.57	34.48	8.67	30.46	33.95	39.66	54.00	14.34	Average
6	9060.25	37.93	10.03	27.75	34.42	41.29	54.00	12.71	Average
7	9064.00	37.93	10.03	36.21	34.42	49.75	74.00	24.25	Peak
8	12886.00	39.54	12.21	33.08	32.63	52.20	74.00	21.80	Peak
9	12890.35	39.54	12.21	24.60	32.63	43.72	54.00	10.28	Average
10	14398.00	42.00	12.97	29.42	32.13	52.26	74.00	21.74	Peak
11	14402.75	42.00	12.98	22.25	32.17	45.06	54.00	8.94	Average
12	15910.00	37.65	14.37	34.87	33.90	52.99	74.00	21.01	Peak
13	15915.95	37.65	14.37	26.25	33.90	44.37	54.00	9.63	Average

Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.
2. The emission levels that are 20dB below the official limit are not reported.

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Economic Development Zone,JiangSu,China
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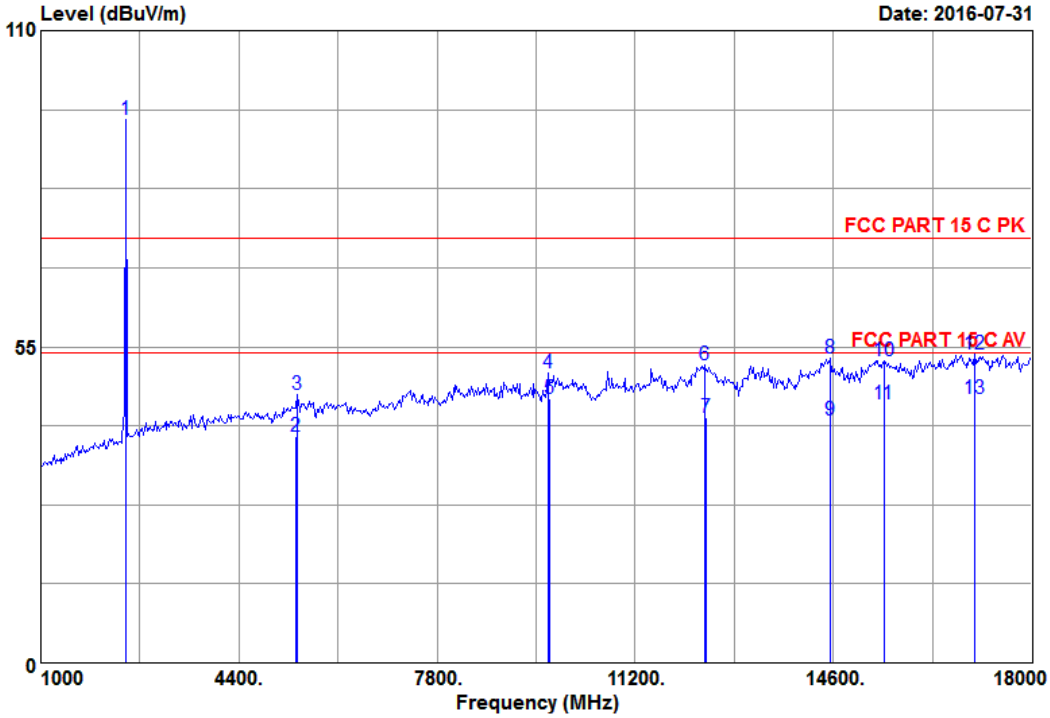
Data: 15 File: G:\Test Data\2016\Reports\08\G1608005.EM6 (52)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62961 1509
Limit : FCC PART 15 C PK
Env. / Ins. : 20.3*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998A
Power Rating: 120Vac/60Hz
Test Mode : TX CH20 2450MHz
Memo :

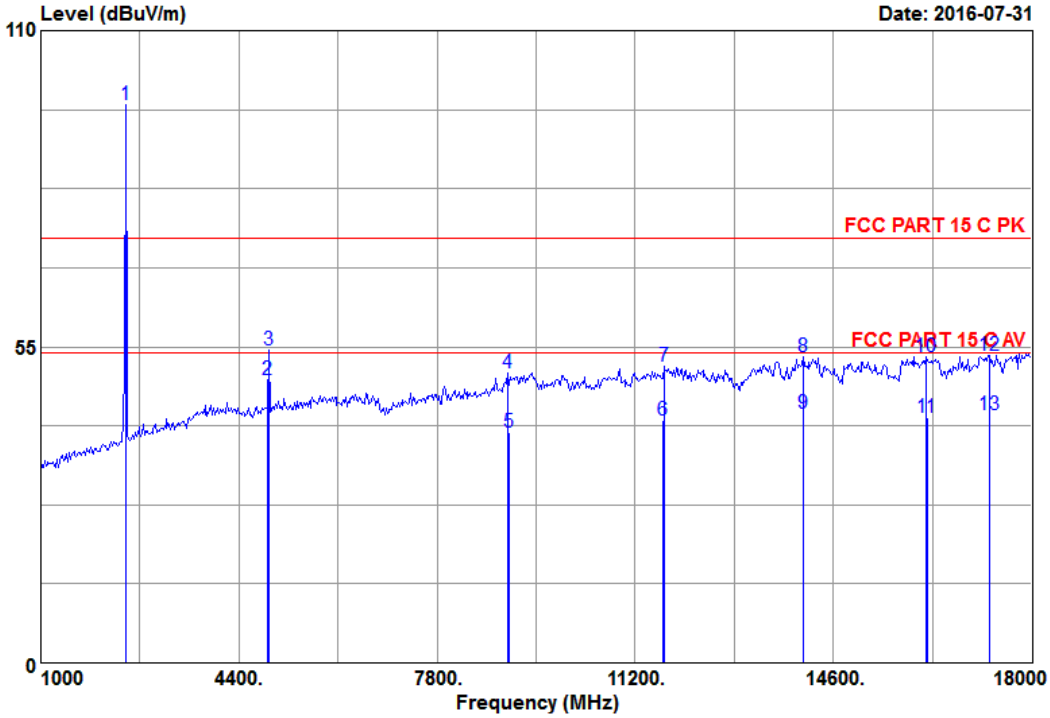
Data NO. : 15
Ant. pol. : HORIZONTAL
Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2449.00	28.19	5.15	95.79	34.50	94.63	74.00	-20.63	Peak
2	5385.63	33.89	7.85	31.66	33.91	39.49	54.00	14.51	Average
3	5389.00	33.89	7.85	38.82	33.91	46.65	74.00	27.35	Peak
4	9715.00	38.51	10.61	35.77	34.46	50.43	74.00	23.57	Peak
5	9720.33	38.51	10.61	31.21	34.46	45.87	54.00	8.13	Average
6	12403.00	39.10	11.83	34.19	33.27	51.85	74.00	22.15	Peak
7	12405.75	39.10	11.83	24.95	33.27	42.61	54.00	11.39	Average
8	14545.00	41.94	13.02	30.33	32.35	52.94	74.00	21.06	Peak
9	14545.69	41.94	13.02	19.69	32.35	42.30	54.00	11.70	Average
10	15469.00	38.08	13.77	34.11	33.45	52.51	74.00	21.49	Peak
11	15470.25	38.08	13.77	26.70	33.45	45.10	54.00	8.90	Average
12	17023.00	40.83	13.92	31.90	32.82	53.83	74.00	20.17	Peak
13	17025.48	40.83	13.92	24.15	32.82	46.08	54.00	7.92	Average

Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.
2. The emission levels that are 20dB below the official limit are not reported.

Audix Technology(Wujiang)Co.,Ltd.
No.1289,Jiang Xing East Road,The Eastern Part of Wu Jiang
Economic Development Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993

Data: 16 File: G:\Test Data\2016\Reports\08\G1608005.EM6 (52)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62961 1509
Limit : FCC PART 15 C PK
Env. / Ins. : 20.3*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998A
Power Rating: 120Vac/60Hz
Test Mode : TX CH20 2450MHz
Memo :

Data NO. : 16
Ant. pol. : VERTICAL
Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2449.00	28.19	5.15	98.18	34.50	97.02	74.00	-23.02	Peak
2	4899.60	33.01	7.37	42.90	33.94	49.34	54.00	4.66	Average
3	4906.00	33.04	7.37	47.93	33.94	54.40	74.00	19.60	Peak
4	9022.00	37.91	10.01	36.89	34.42	50.39	74.00	23.61	Peak
5	9025.36	37.91	10.01	26.59	34.42	40.09	54.00	13.91	Average
6	11685.42	39.41	11.46	25.19	33.76	42.30	54.00	11.70	Average
7	11689.00	39.41	11.46	34.48	33.76	51.59	74.00	22.41	Peak
8	14083.00	41.69	12.87	30.44	31.70	53.30	74.00	20.70	Peak
9	14085.26	41.69	12.87	20.47	31.70	43.33	54.00	10.67	Average
10	16204.00	37.92	14.36	34.76	33.74	53.30	74.00	20.70	Peak
11	16205.38	37.92	14.36	24.17	33.74	42.71	54.00	11.29	Average
12	17275.00	42.47	13.88	30.01	32.85	53.51	74.00	20.49	Peak
13	17275.14	42.47	13.88	19.62	32.85	43.12	54.00	10.88	Average

Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.
2. The emission levels that are 20dB below the official limit are not reported.

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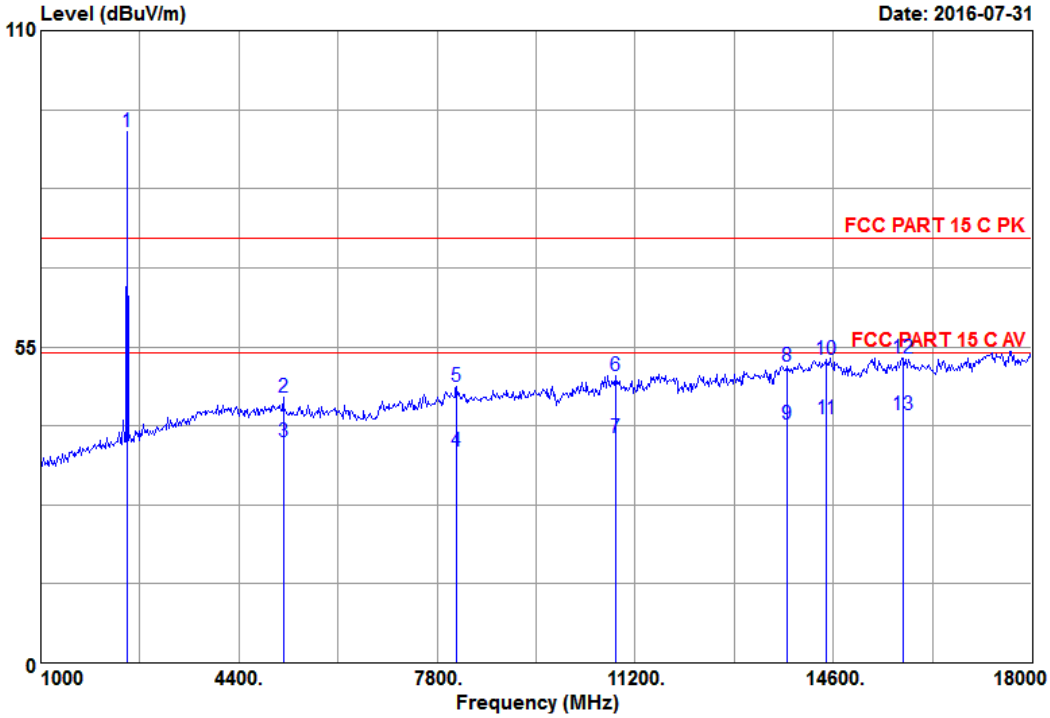
No.1289,Jiang Xing East Road,The Eastern Part of Wu Jiang
Economic Development Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993

Data: 17 File: G:\Test Data\2016\Reports\08\G1608005.EM6 (52)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62961 1509
Limit : FCC PART 15 C PK
Env. / Ins. : 20.3*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998A
Power Rating: 120Vac/60Hz
Test Mode : TX CH26 2480MHz
Memo :

Data NO. : 17
Ant. pol. : HORIZONTAL
Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m	Limits (dBuV/m)	Margin (dB)	Remark
1	2470.00	28.22	5.18	93.46	34.49	92.37	74.00	-18.37	Peak
2	5158.00	33.50	7.59	39.07	33.92	46.24	74.00	27.76	Peak
3	5160.28	33.50	7.59	31.26	33.92	38.43	54.00	15.57	Average
4	8138.63	36.97	9.64	24.47	34.15	36.93	54.00	17.07	Average
5	8140.00	36.97	9.64	35.62	34.15	48.08	74.00	25.92	Peak
6	10870.00	39.00	11.28	33.54	33.75	50.07	74.00	23.93	Peak
7	10875.82	39.00	11.28	22.75	33.75	39.28	54.00	14.72	Average
8	13810.00	41.20	12.74	29.52	31.77	51.69	74.00	22.31	Peak
9	13812.17	41.20	12.74	19.26	31.77	41.43	54.00	12.57	Average
10	14482.00	42.08	13.01	30.06	32.28	52.87	74.00	21.13	Peak
11	14485.67	42.08	13.01	19.72	32.28	42.53	54.00	11.47	Average
12	15805.00	37.71	14.24	34.79	33.80	52.94	74.00	21.06	Peak
13	15806.49	37.71	14.24	24.92	33.80	43.07	54.00	10.93	Average

Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.
2. The emission levels that are 20dB below the official limit are not reported.

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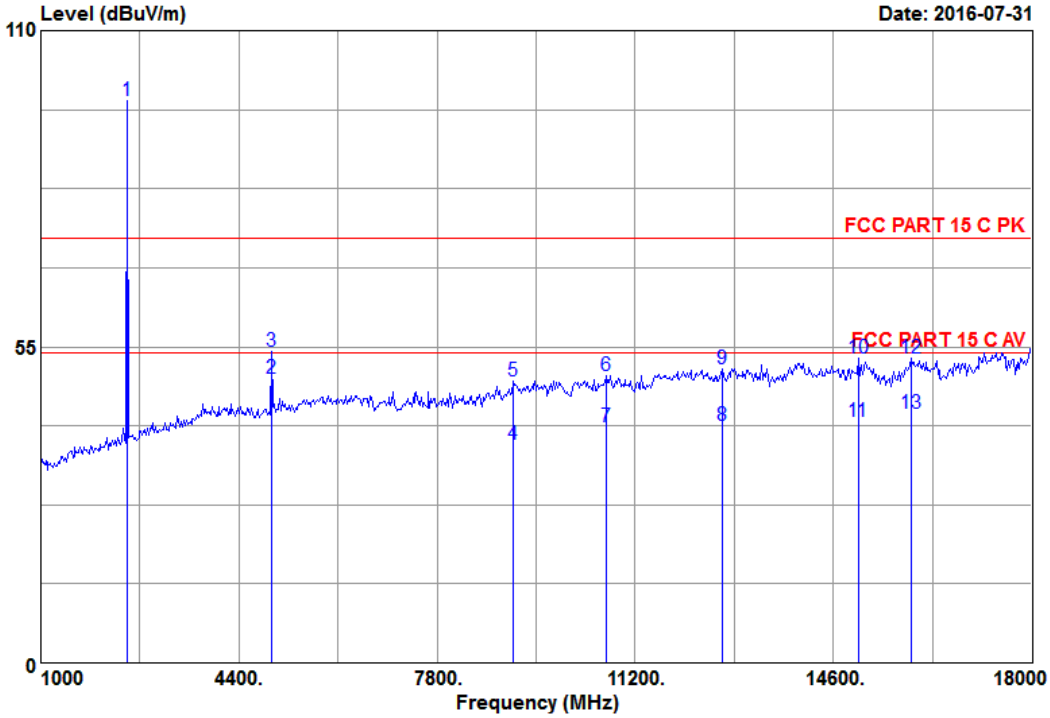
No.1289,Jiang Xing East Road,The Eastern Part of Wu Jiang
Economic Development Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993

Data: 18 File: G:\Test Data\2016\Reports\08\G1608005.EM6 (52)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62961 1509
Limit : FCC PART 15 C PK
Env. / Ins. : 20.3*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998A
Power Rating: 120Vac/60Hz
Test Mode : TX CH26 2480MHz
Memo :

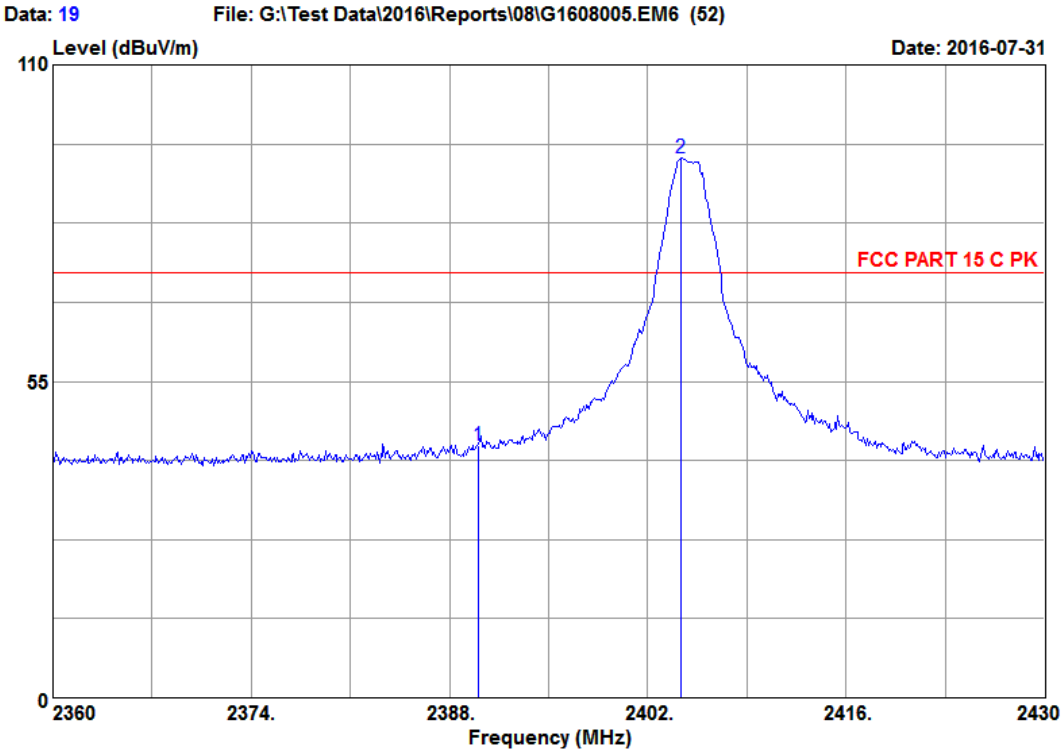
Data NO. : 18
Ant. pol. : VERTICAL
Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2470.00	28.22	5.18	98.97	34.49	97.88	74.00	-23.88	Peak
2	4959.60	33.14	7.39	42.85	33.93	49.45	54.00	4.55	Average
3	4969.00	33.14	7.41	47.49	33.92	54.12	74.00	19.88	Peak
4	9105.82	37.96	10.08	24.48	34.43	38.09	54.00	15.91	Average
5	9106.00	37.96	10.08	35.37	34.43	48.98	74.00	25.02	Peak
6	10702.00	39.00	11.19	33.62	33.90	49.91	74.00	24.09	Peak
7	10708.39	39.00	11.20	24.72	33.87	41.05	54.00	12.95	Average
8	12695.28	39.28	12.07	22.75	32.86	41.24	54.00	12.76	Average
9	12697.00	39.28	12.07	32.70	32.86	51.19	74.00	22.81	Peak
10	15028.00	40.41	13.20	32.34	33.03	52.92	74.00	21.08	Peak
11	15030.75	40.41	13.20	21.50	33.03	42.08	54.00	11.92	Average
12	15931.00	37.64	14.40	35.00	33.93	53.11	74.00	20.89	Peak
13	15935.16	37.63	14.40	25.29	33.93	43.39	54.00	10.61	Average

Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.
2. The emission levels that are 20dB below the official limit are not reported.

4.8. Spurious Emission Measurement Results in Band Edge Emission (FCC Part 15, 15.205)

Audix Technology(Wujiang)Co.,Ltd.
No.1289,Jiang Xing East Road,The Eastern Part of Wu Jiang
Economic Development Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62961 1509
Limit : FCC PART 15 C PK
Env. / Ins. : 20.3*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998A
Power Rating: 120Vac/60Hz
Test Mode : TX CH11 2405MHz
Memo :

Data NO. : 19
Ant. pol. : HORIZONTAL
Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.07	5.09	45.21	34.50	43.87	74.00	30.13	Peak
2	2404.37	28.11	5.09	95.11	34.50	93.81	74.00	-19.81	Peak

Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.
2. The emission levels that are 20dB below the official limit are not reported.

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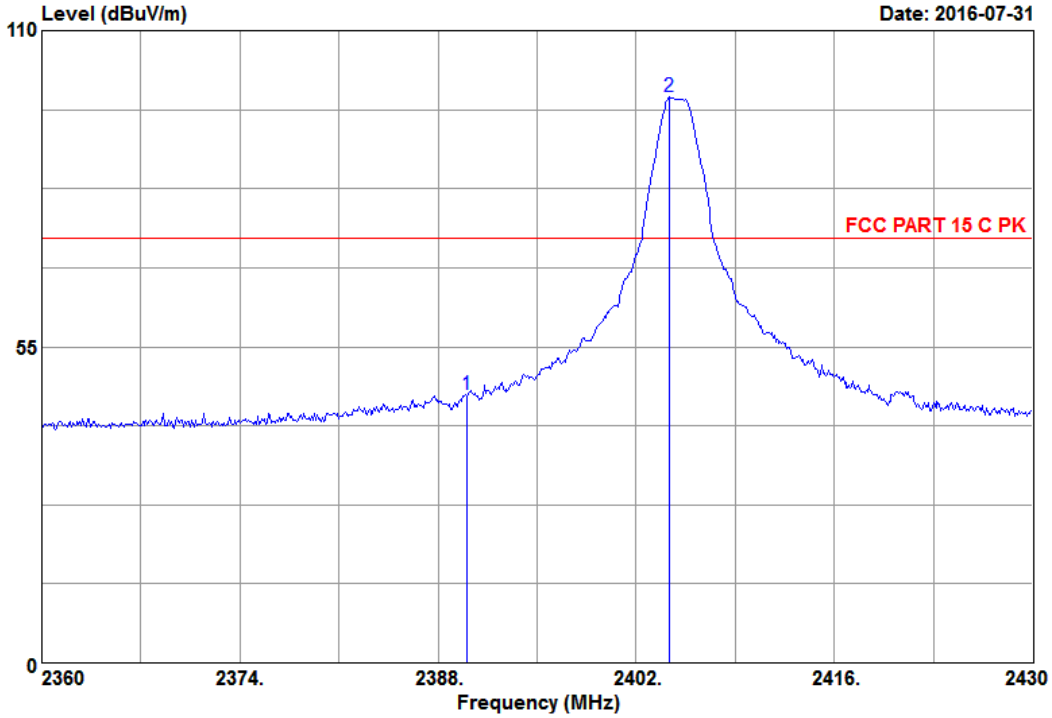
No.1289,Jiang Xing East Road,The Eastern Part of Wu Jiang
Economic Development Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993

Data: 20 File: G:\Test Data\2016\Reports\08\G1608005.EM6 (52)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62961 1509
Limit : FCC PART 15 C PK
Env. / Ins. : 20.3*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998A
Power Rating: 120Vac/60Hz
Test Mode : TX CH11 2405MHz
Memo :

Data NO. : 20
Ant. pol. : VERTICAL
Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.07	5.09	48.02	34.50	46.68	74.00	27.32	Peak
2	2404.37	28.11	5.09	99.77	34.50	98.47	74.00	-24.47	Peak

Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.
2. The emission levels that are 20dB below the official limit are not reported.

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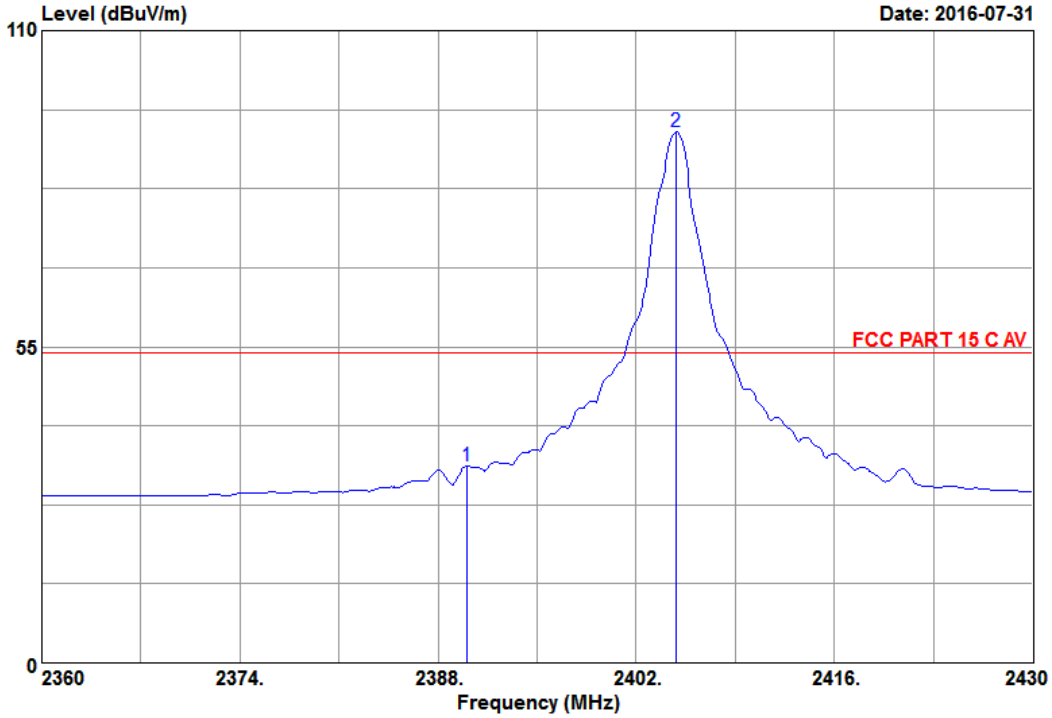
Economic Development Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993

Data: 21 File: G:\Test Data\2016\Reports\08\G1608005.EM6 (52)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62961 1509
Limit : FCC PART 15 C AV
Env. / Ins. : 20.3*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998A
Power Rating: 120Vac/60Hz
Test Mode : TX CH11 2405MHz
Memo :

Data NO. : 21
Ant. pol. : HORIZONTAL

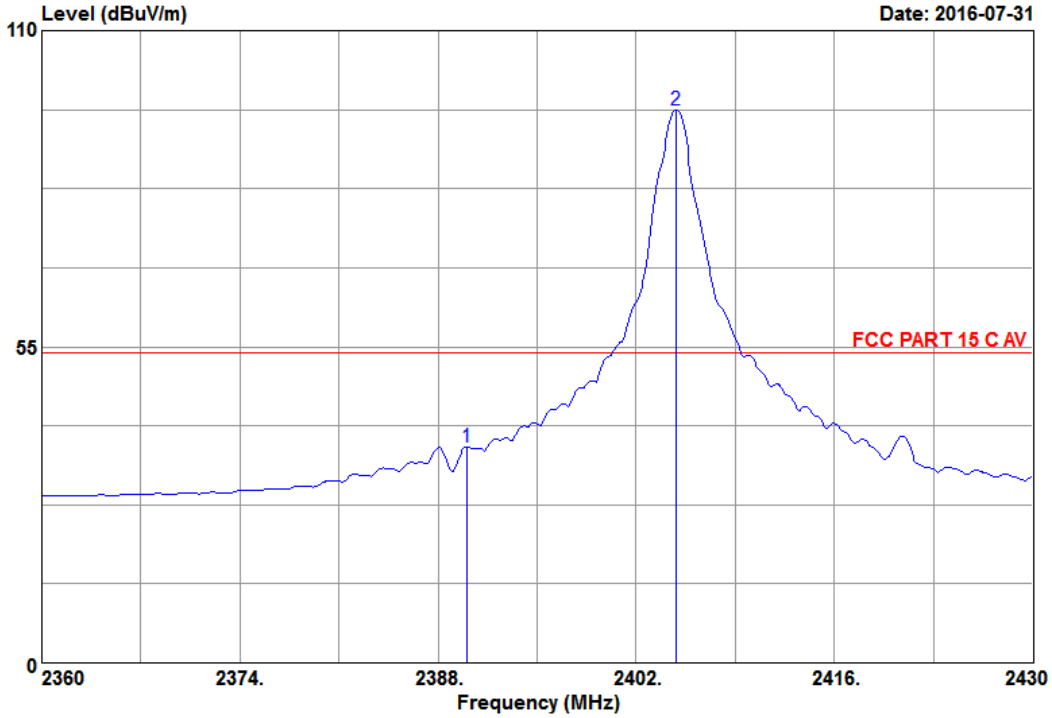
Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.07	5.09	35.56	34.50	34.22	54.00	19.78	Average
2	2404.82	28.11	5.09	93.64	34.50	92.34	54.00	-38.34	Average

Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.
2. The emission levels that are 20dB below the official limit are not reported.

Audix Technology(Wujiang)Co.,Ltd.
No.1289,Jiang Xing East Road,The Eastern Part of Wu Jiang
Economic Development Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993

Data: 22 File: G:\Test Data\2016\Reports\08\G1608005.EM6 (52)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62961 1509
Limit : FCC PART 15 C AV
Env. / Ins. : 20.3*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998A
Power Rating: 120Vac/60Hz
Test Mode : TX CH11 2405MHz
Memo :

Data NO. : 22
Ant. pol. : VERTICAL
Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.07	5.09	38.89	34.50	37.55	54.00	16.45	Average
2	2404.82	28.11	5.09	97.48	34.50	96.18	54.00	-42.18	Average

Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.
2. The emission levels that are 20dB below the official limit are not reported.

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Economic Development Zone,JiangSu,China
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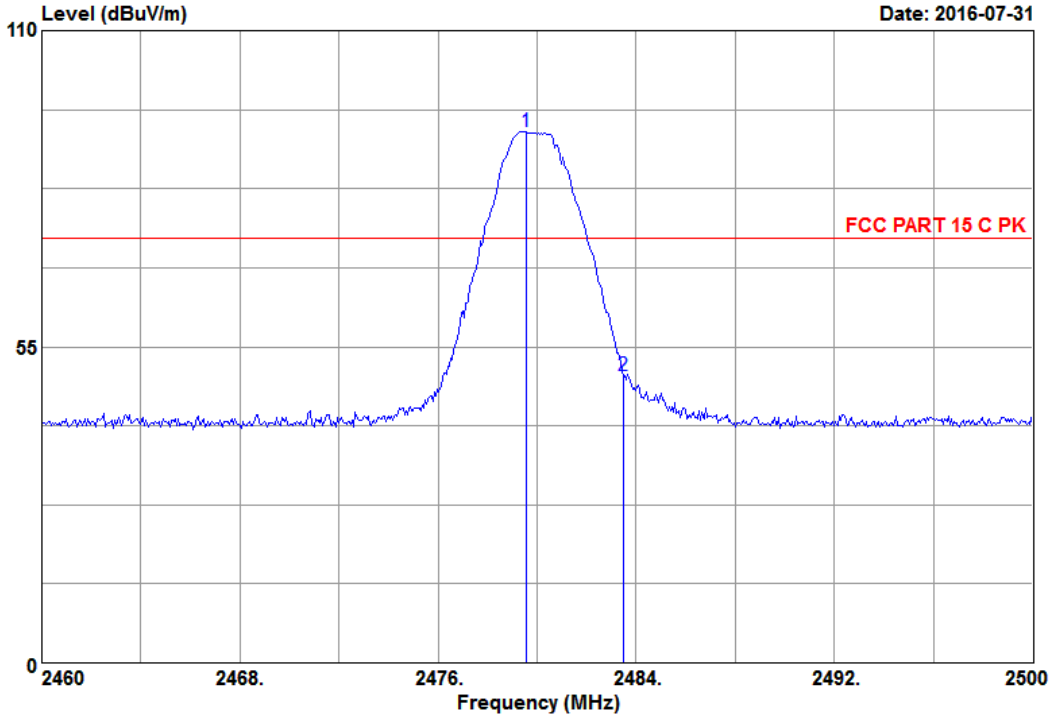
Data: 23 File: G:\Test Data\2016\Reports\08\G1608005.EM6 (52)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62961 1509
Limit : FCC PART 15 C PK
Env. / Ins. : 20.3*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998A
Power Rating: 120Vac/60Hz
Test Mode : TX CH26 2480MHz
Memo :

Data NO. : 23
Ant. pol. : HORIZONTAL
Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.56	28.26	5.18	93.50	34.49	92.45	74.00	-18.45	Peak
2	2483.50	28.26	5.18	50.94	34.49	49.89	74.00	24.11	Peak

Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.
2. The emission levels that are 20dB below the official limit are not reported.

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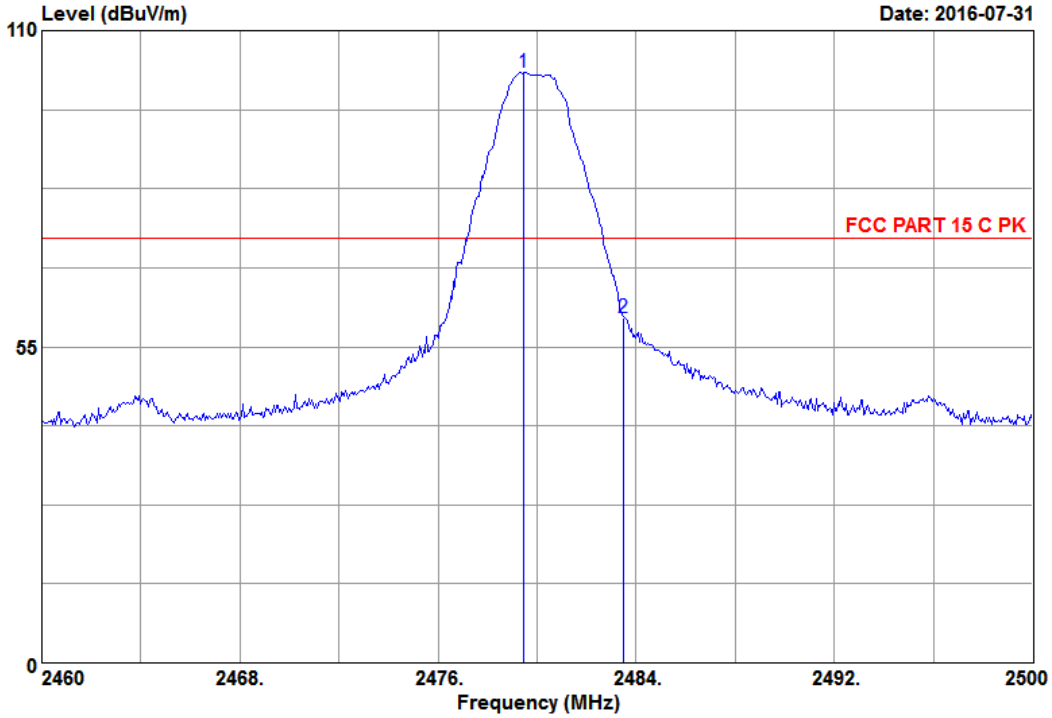
No.1289,Jiang Xing East Road,The Eastern Part of Wu Jiang
Economic Development Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993

Data: 24 File: G:\Test Data\2016\Reports\08\G1608005.EM6 (52)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62961 1509
Limit : FCC PART 15 C PK
Env. / Ins. : 20.3*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998A
Power Rating: 120Vac/60Hz
Test Mode : TX CH26 2480MHz
Memo :

Data NO. : 24
Ant. pol. : VERTICAL
Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.44	28.26	5.18	103.70	34.49	102.65	74.00	-28.65	Peak
2	2483.50	28.26	5.18	61.03	34.49	59.98	74.00	14.02	Peak

Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.
2. The emission levels that are 20dB below the official limit are not reported.

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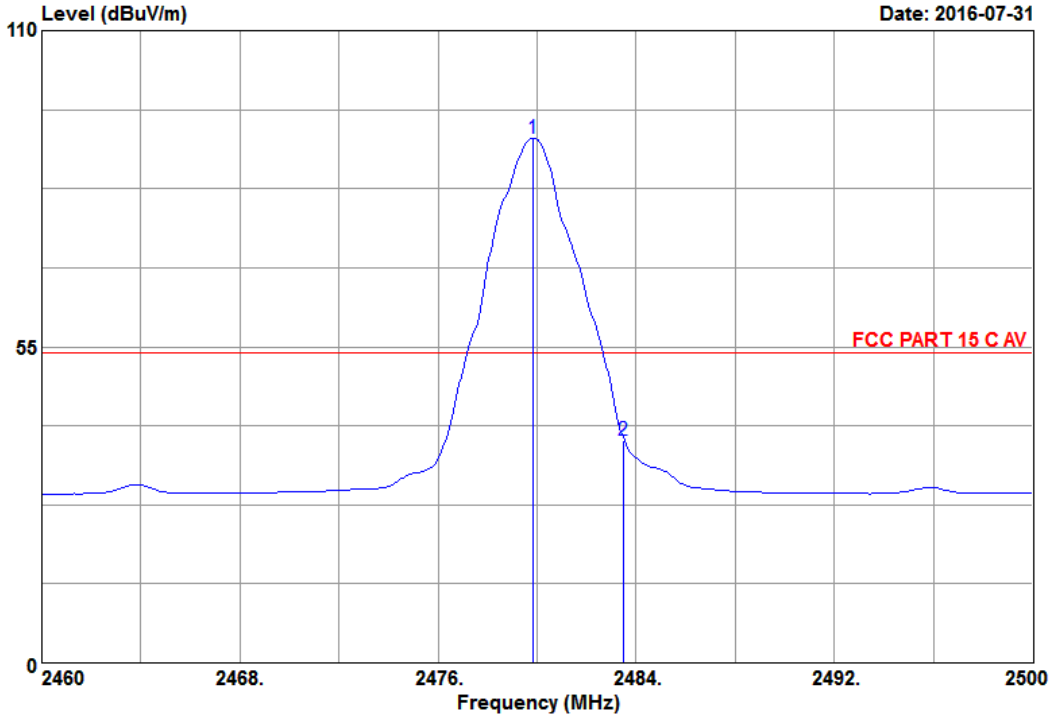
Economic Development Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993

Data: 25 File: G:\Test Data\2016\Reports\08\G1608005.EM6 (52)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62961 1509
Limit : FCC PART 15 C AV
Env. / Ins. : 20.3*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998A
Power Rating: 120Vac/60Hz
Test Mode : TX CH26 2480MHz
Memo :

Data NO. : 25
Ant. pol. : HORIZONTAL
Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.86	28.26	5.18	92.32	34.49	91.27	54.00	-37.27	Average
2	2483.50	28.26	5.18	39.75	34.49	38.70	54.00	15.30	Average

Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.
2. The emission levels that are 20dB below the official limit are not reported.

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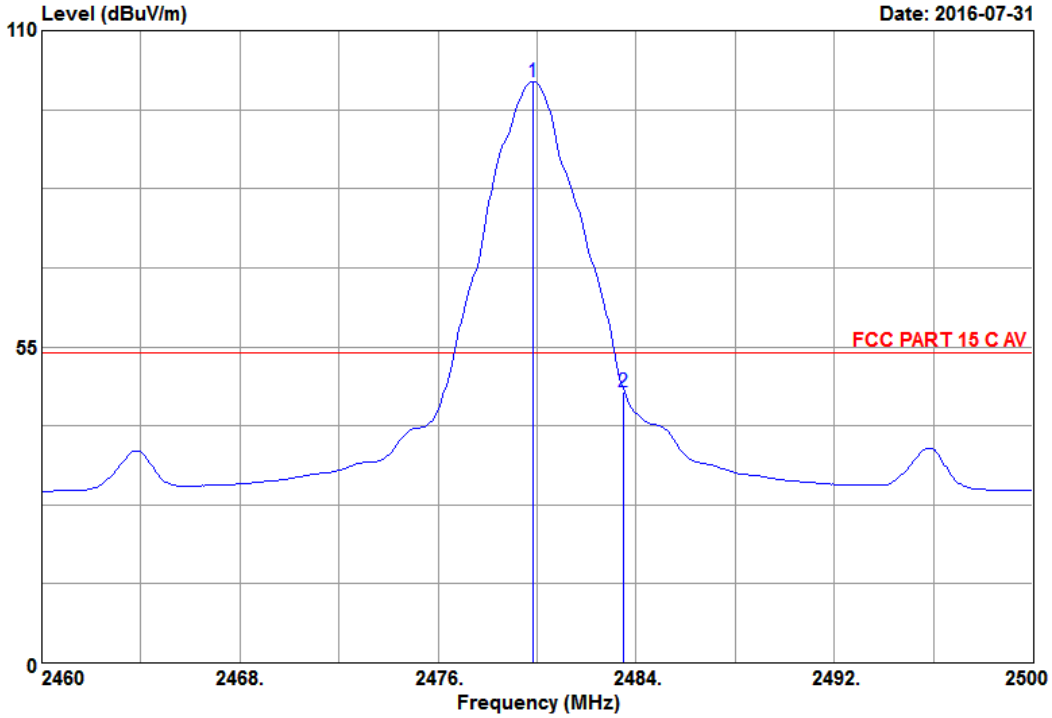
No.1289,Jiang Xing East Road,The Eastern Part of Wu Jiang
Economic Development Zone,JiangSu,China
Tel:(0512)63403993 Fax:(0512)63403993

Data: 26 File: G:\Test Data\2016\Reports\08\G1608005.EM6 (52)



Site NO. : 3m Semi-Anechoic Chamber
Dis. / Ant. : 3m 3115-62961 1509
Limit : FCC PART 15 C AV
Env. / Ins. : 20.3*C&42%/N9030A
EUT : LED Lamp
M/N : 9290011998A
Power Rating: 120Vac/60Hz
Test Mode : TX CH26 2480MHz
Memo :

Data NO. : 26
Ant. pol. : VERTICAL
Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.86	28.26	5.18	102.12	34.49	101.07	54.00	-47.07	Average
2	2483.50	28.26	5.18	48.17	34.49	47.12	54.00	6.88	Average

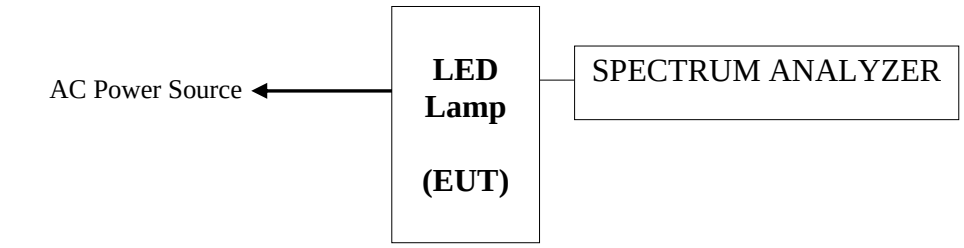
Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.
2. The emission levels that are 20dB below the official limit are not reported.

5. 6 dB BANDWIDTH MEASUREMENT

5.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	PXA Signal Analyzer	Agilent	N9030A	MY53120367	2016-05-15	2017-05-14

5.2. Block Diagram of Test Setup



—— : SIGNAL LINE

—— : POWER LINE

5.3. Specification Limits (§15.247(a)(2))

Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500kHz.

5.4. Test Procedure

The steps for the first option are as bellow:

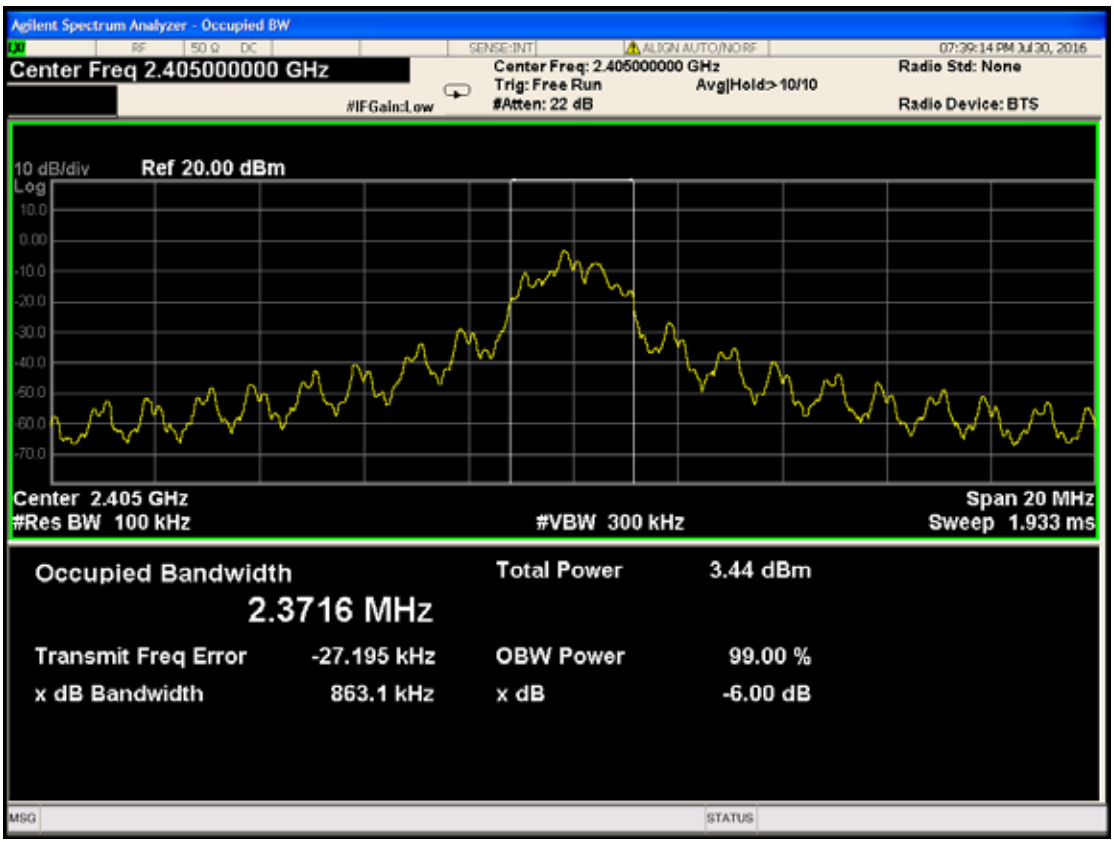
a) Set RBW = 100 kHz.
b) Set the VBW≥[3×RBW].
c) Detector = peak.
d) Trace mode = max hold.
e) Sweep = auto couple.
f) Allow the trace to stabilize.
g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.5. Test Results

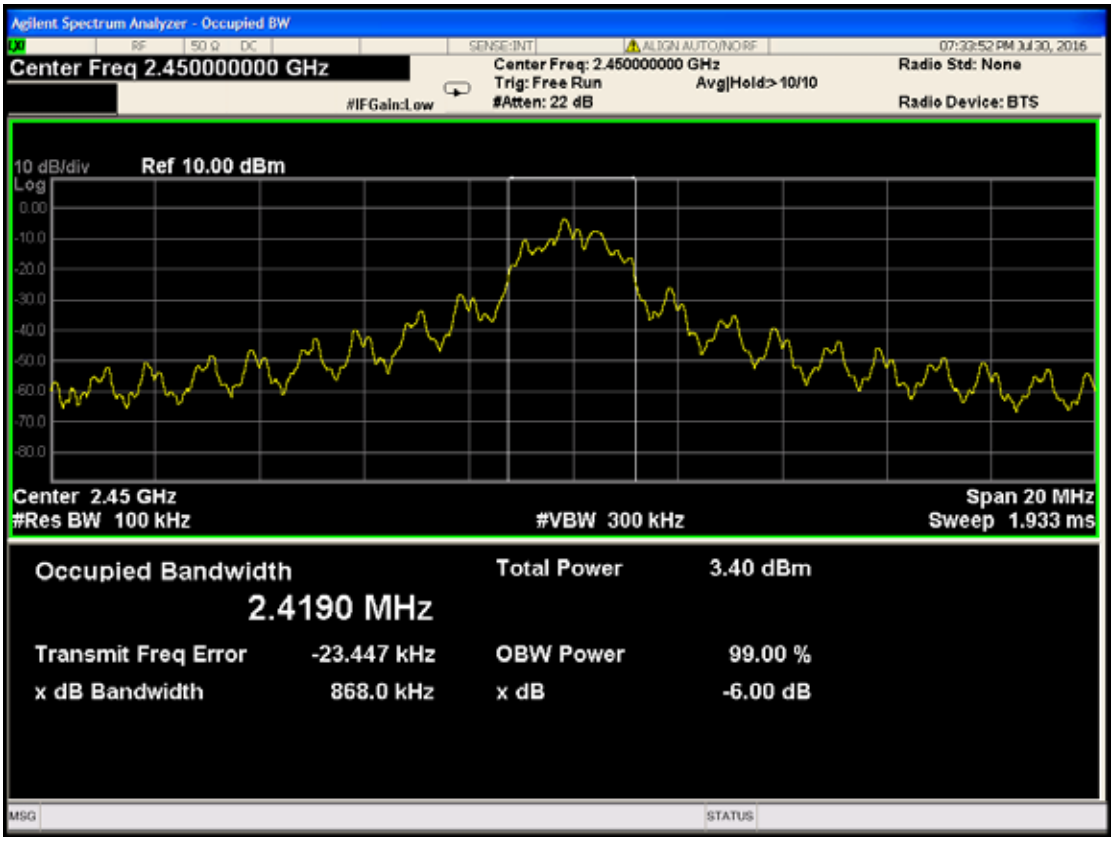
PASSED. All the test results are attached in next pages.

Channel	Center Frequency(MHz)	6 dB Bandwidth(kHz)
11	2405	**863.1**
20	2450	**868.0**
26	2480	**652.5**

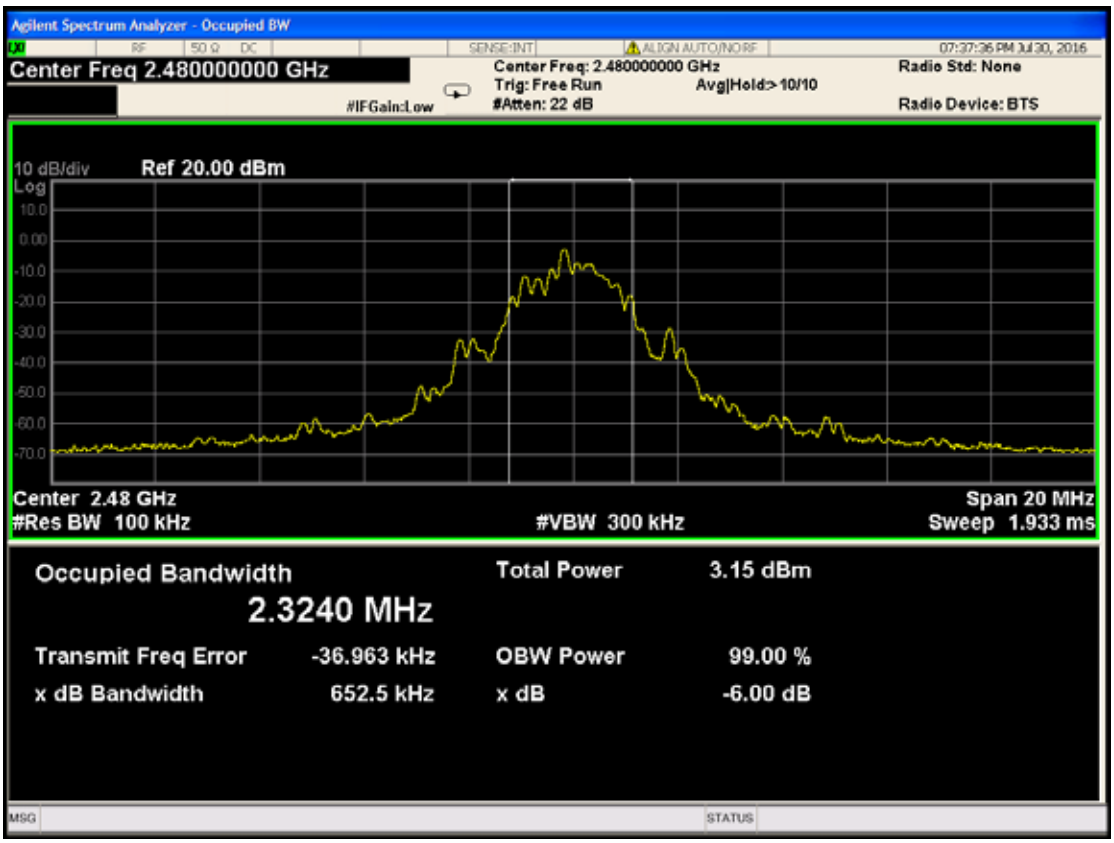
CH 11


Agilent Spectrum Analyzer - Occupied BW
Center Freq 2.405000000 GHz
Center Freq: 2.405000000 GHz
Trig: Free Run
Avg|Hold:>10/10
#Atten: 22 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
10 dB/div
Ref 20.00 dBm
Log
Center 2.405 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 20 MHz
Sweep 1.933 ms
Occupied Bandwidth
2.3716 MHz
Total Power
3.44 dBm
Transmit Freq Error
-27.195 kHz
OBW Power
99.00 %
x dB Bandwidth
863.1 kHz
x dB
-6.00 dB
MSG
STATUS

CH 20


Agilent Spectrum Analyzer - Occupied BW
Center Freq 2.450000000 GHz
Center Freq: 2.450000000 GHz
Trig: Free Run
Avg|Hold:>10/10
#Atten: 22 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
10 dB/div
Ref 10.00 dBm
Log
Center 2.45 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 20 MHz
Sweep 1.933 ms
Occupied Bandwidth
2.4190 MHz
Total Power
3.40 dBm
Transmit Freq Error
-23.447 kHz
OBW Power
99.00 %
x dB Bandwidth
868.0 kHz
x dB
-6.00 dB
MSG
STATUS

CH 26

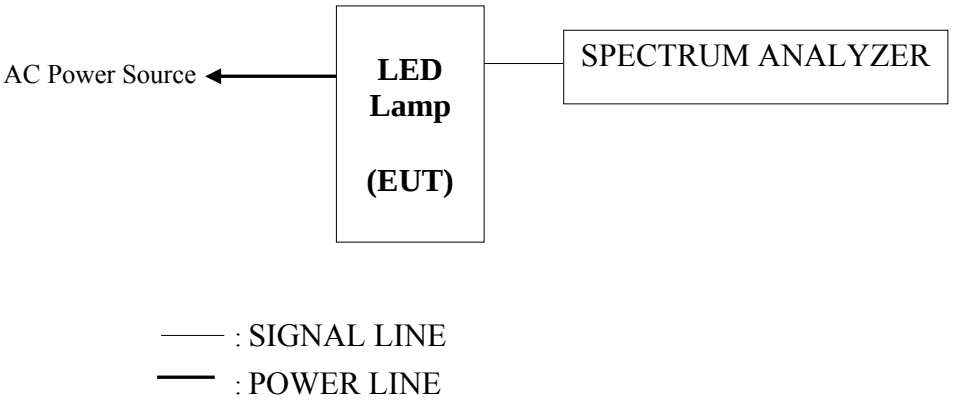

Agilent Spectrum Analyzer - Occupied BW
Center Freq 2.480000000 GHz
Center Freq: 2.480000000 GHz
Trig: Free Run
Avg|Hold:>10/10
#Atten: 22 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
10 dB/div
Ref 20.00 dBm
Log
Center 2.48 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 20 MHz
Sweep 1.933 ms
Occupied Bandwidth
2.3240 MHz
Total Power
3.15 dBm
Transmit Freq Error
-36.963 kHz
OBW Power
99.00 %
x dB Bandwidth
652.5 kHz
x dB
-6.00 dB
MSG
STATUS

6. OUTPUT POWER MEASUREMENT

6.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	PXA Signal Analyzer	Agilent	N9030A	MY53120367	2016-05-15	2017-05-14

6.2. Block Diagram of Test Setup



6.3. Specification Limits (§15.247(b)(3))

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

6.4. Test Procedure

a) Set span to at least 1.5 times the OBW.
b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
c) Set VBW ≥ 3 x RBW.
d) Number of points in sweep ≥ 2 × span / RBW. (This gives bin-to-bin spacing ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)
e) Sweep time = auto.
f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
g) If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".
h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

6.5. Test Results

PASSED. All the test results are attached in next pages.

Channel	Frequency	Power(dBm)	Limit(dBm)
11	2405	2.28	30
20	2450	2.11	30
26	2480	2.28	30

7. BAND EDGES MEASUREMENT

7.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	PXA Signal Analyzer	Agilent	N9030A	MY53120367	2016-05-15	2017-05-14

7.2. Block Diagram of Test Setup

The same as section 5.2.

7.3. Specification Limits (§15.247(d))

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

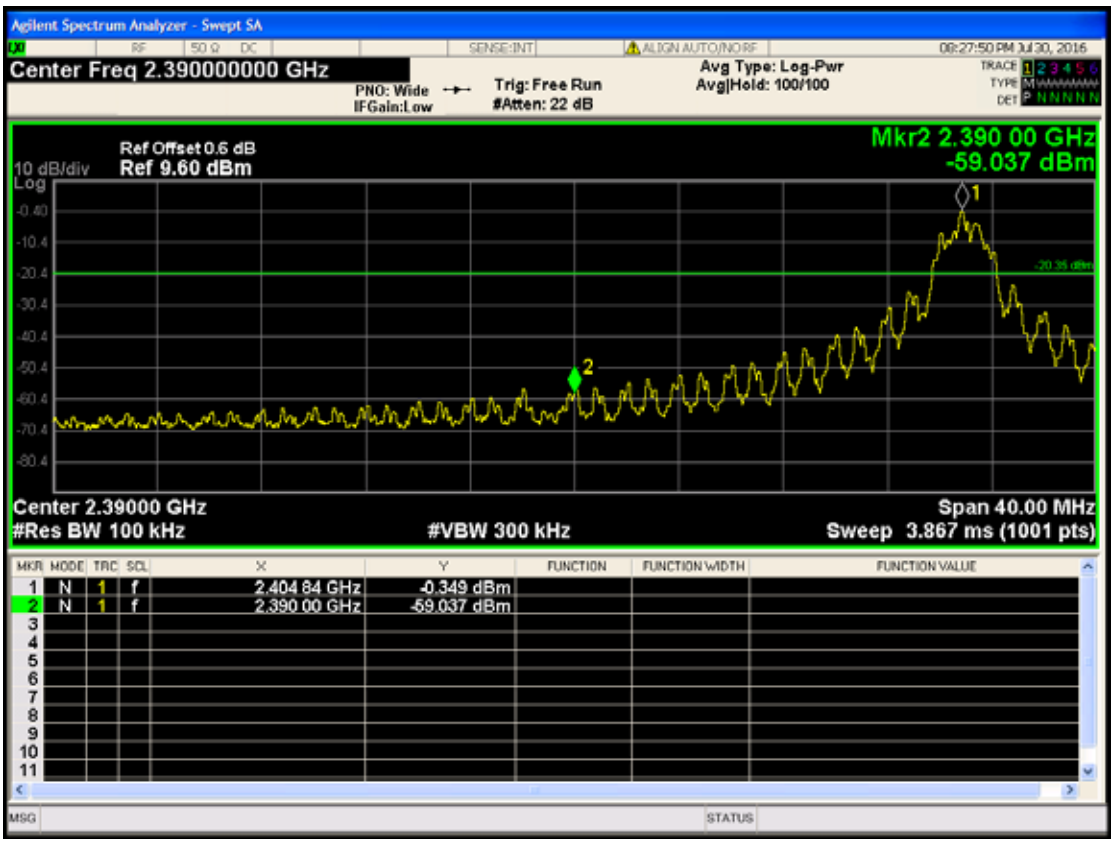
7.4. Test Procedure

The transmitter output was connected to the test receiver / spectrum analyzer. Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz with suitable frequency span including 100kHz bandwidth from band edge.

7.5. Test Results

PASSED. The testing data was attached in the next pages.

CH11


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.390000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
09:27:50 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 9.60 dBm
Log
Mkr2 2.390 00 GHz
-59.037 dBm
Center 2.39000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 40.00 MHz
Sweep 3.867 ms (1001 pts)
1 N 1 f 2.404 84 GHz -0.349 dBm
2 N 1 f 2.390 00 GHz -59.037 dBm

CH26


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.483500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
09:20:18 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 9.60 dBm
Log
Mkr2 2.483 54 GHz
-58.446 dBm
Center 2.48350 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 40.00 MHz
Sweep 3.867 ms (1001 pts)
1 N 1 f 2.479 82 GHz 0.190 dBm
2 N 1 f 2.483 54 GHz -58.446 dBm

8. POWER SPECTRAL DENSITY MEASUREMENT

8.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	PXA Signal Analyzer	Agilent	N9030A	MY53120367	2016-05-15	2017-05-14

8.2. Block Diagram of Test Setup

The same as section 5.2.

8.3. Specification Limits (§15.247(e))

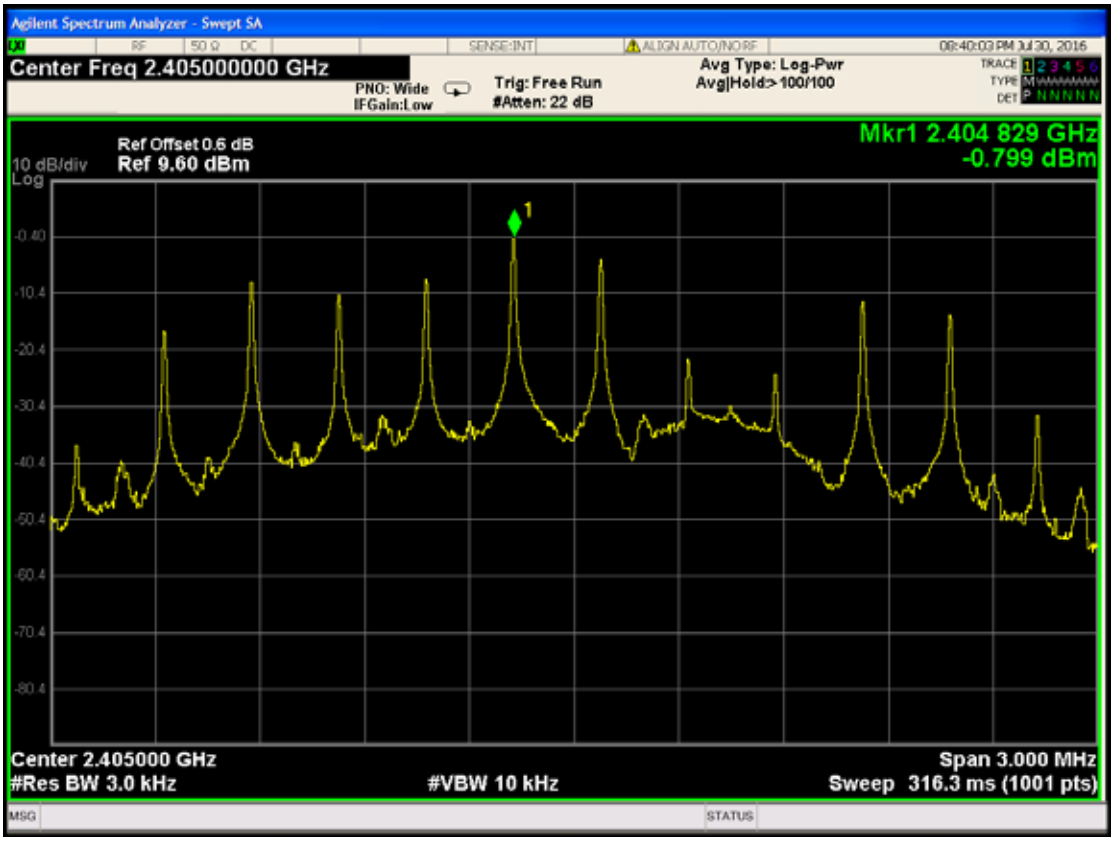
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

8.4. Test Results

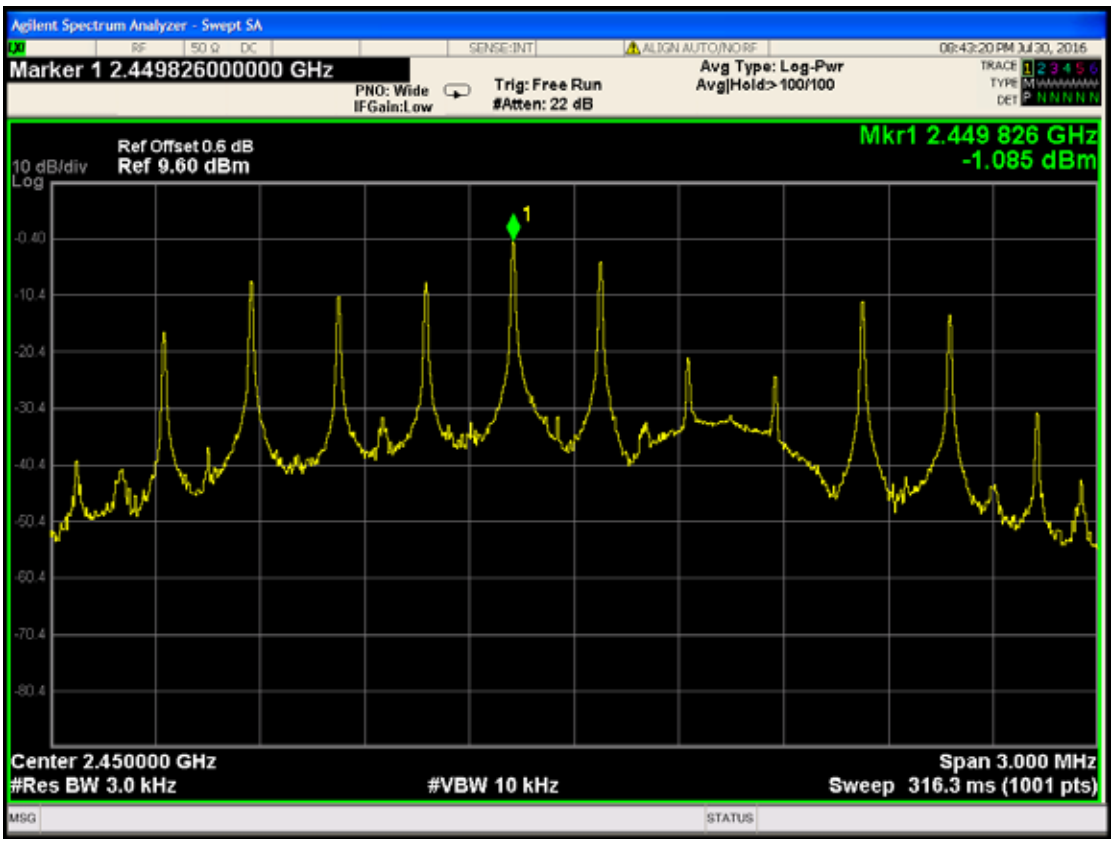
PASSED. All the test results are attached in next page.

Channel	Frequency(GHz)	Value(dBm/3kHz)
11	2.405	-0.799
20	2.450	-1.085
26	2.480	-0.282

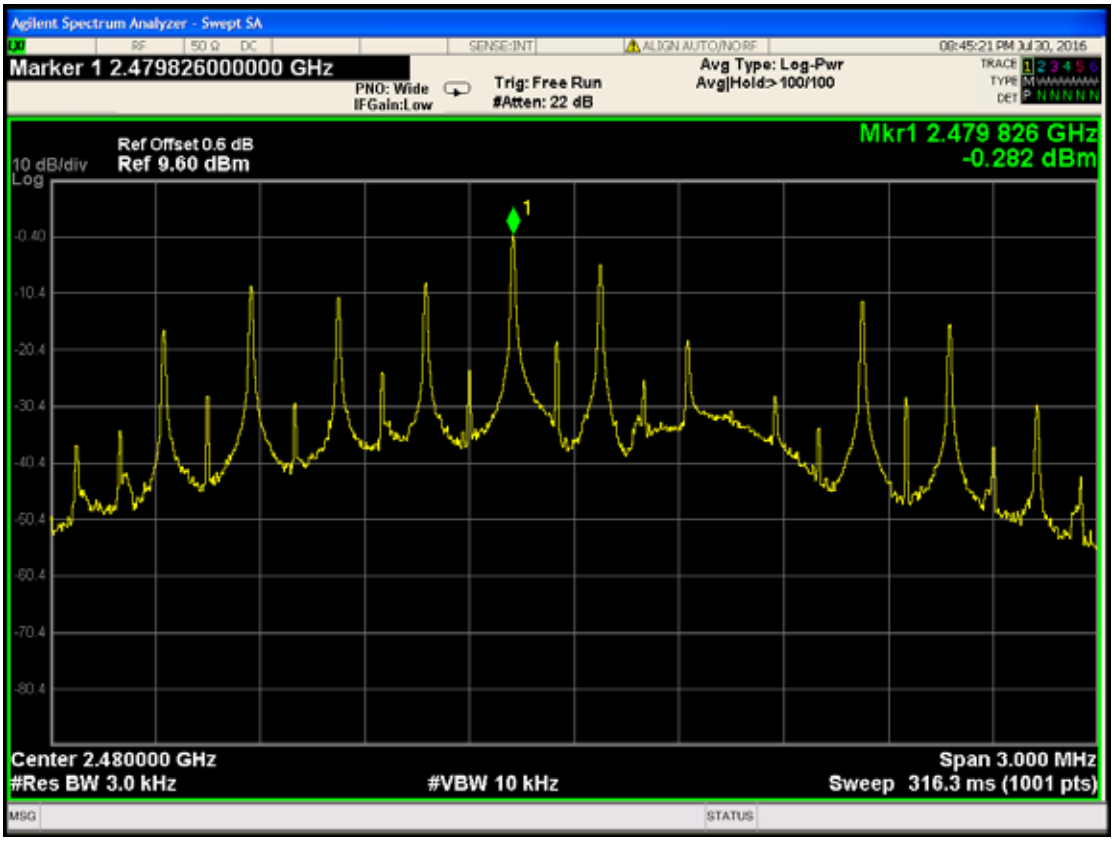
CH 11


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.405000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ref Offset 0.6 dB
10 dB/div
Ref 9.60 dBm
Log
Mkr1 2.404 829 GHz
-0.799 dBm
Center 2.405000 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 3.000 MHz
Sweep 316.3 ms (1001 pts)

CH 20


Agilent Spectrum Analyzer - Swept SA
Marker 1 2.449826000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ref Offset 0.6 dB
10 dB/div
Ref 9.60 dBm
Log
Mkr1 2.449 826 GHz
-1.085 dBm
Center 2.450000 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 3.000 MHz
Sweep 316.3 ms (1001 pts)

CH 26


Agilent Spectrum Analyzer - Swept SA
Marker 1 2.479826000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
09:45:21 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Log
Ref 9.60 dBm
Mkr1 2.479 826 GHz
-0.282 dBm
Center 2.480000 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Span 3.000 MHz
Sweep 316.3 ms (1001 pts)

9. EMISSION LIMITATIONS MEASUREMENT

9.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	PXA Signal Analyzer	Agilent	N9030A	MY53120367	2015-05-15	2017-05-14

9.2. Block Diagram of Test Setup

The same as section 5.2.

9.3. Specification Limits (§15.247(d))

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

9.4. Test Procedure

The transmitter output was connected to the spectrum analyzer. Set RBW = 100kHz, VBW ≥ 300 kHz, scan up through 10_{th} harmonic. All harmonics/spurs must be at least 30 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. The measurement guideline was according to KDB558074 v03r05.

9.5. Test Results

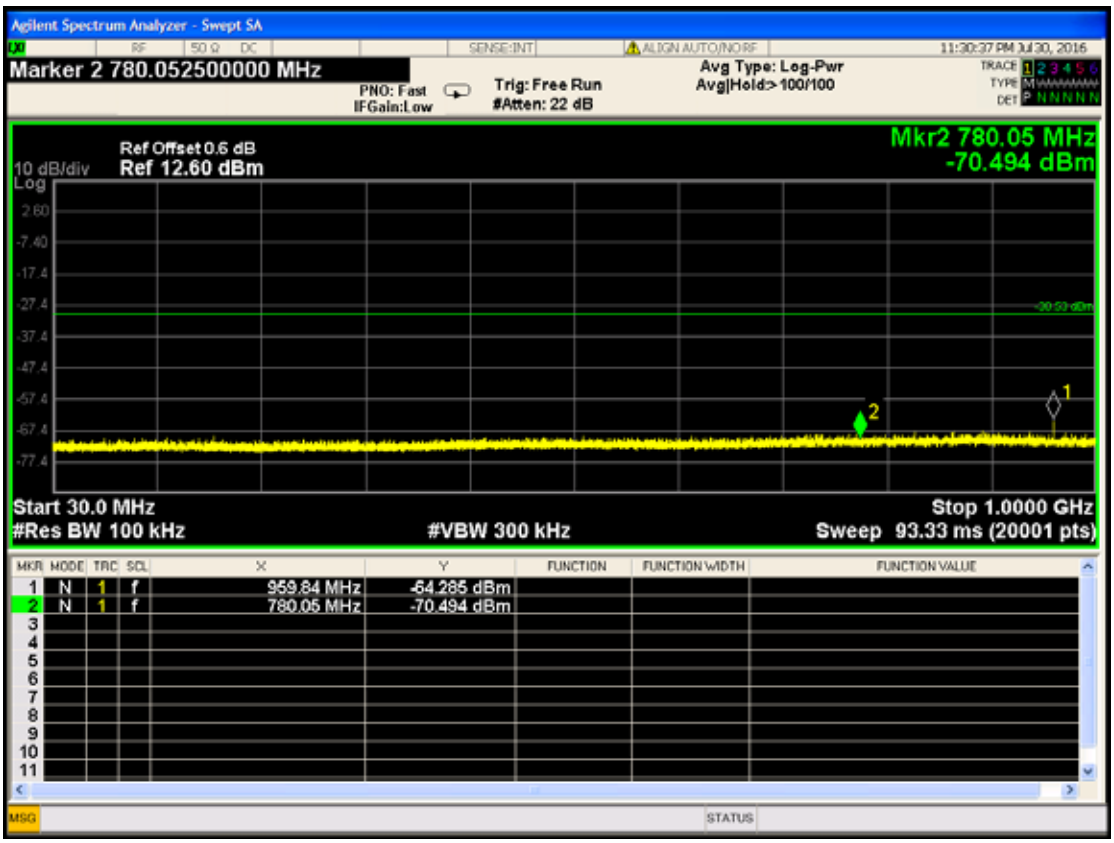
PASSED. All the test results are attached in next pages.

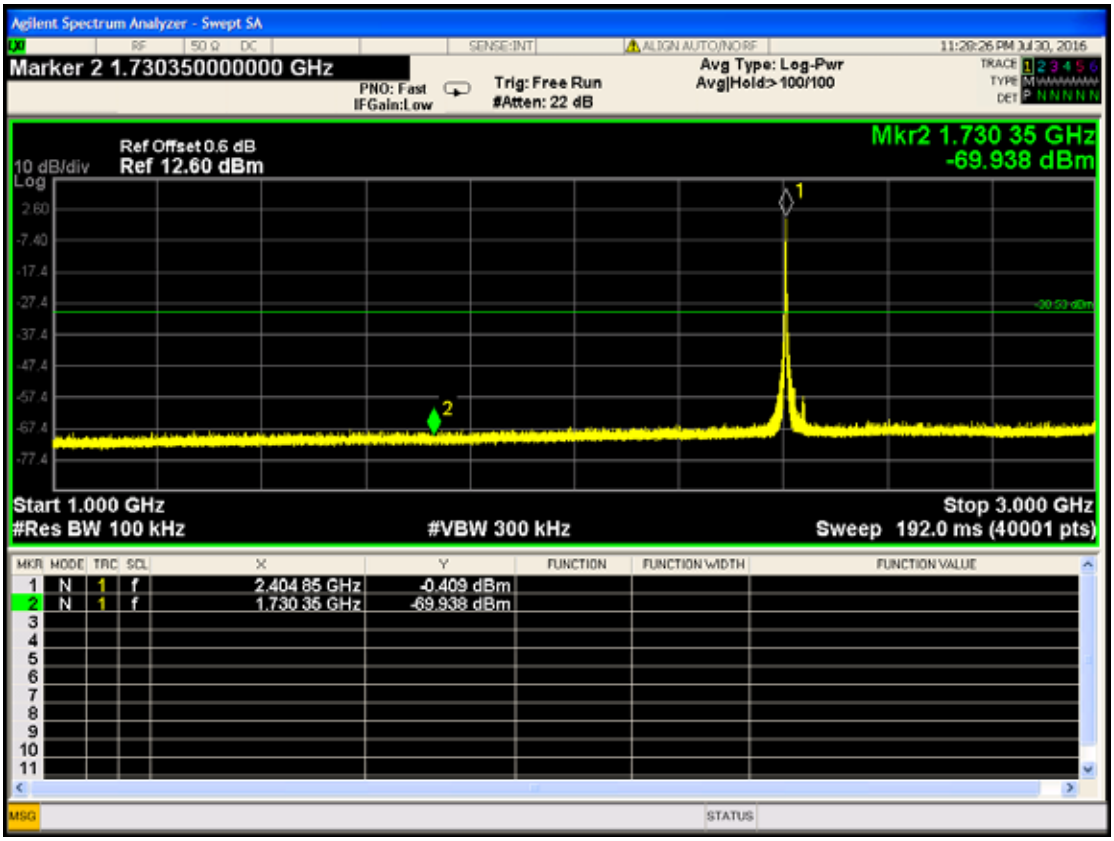
Channel	Frequency(MHz)	Amplitude(dBm)
11	959.84	-64.285
	780.05	-70.494
	2404.85	-0.409
	1730.35	-69.938
	3785.65	-62.084
	4359.05	-63.061
	5086.25	-62.565
	5211.00	-63.998
	8167.10	-63.214
	8771.85	-63.237
	10691.70	-63.045
	10576.50	-63.233
	12022.60	-62.193
	11856.80	-63.753
	14092.45	-62.002
	13635.90	-62.391
	15076.85	-61.558
	15899.20	-62.453
	18863.35	-60.954
	18138.60	-61.831
	19273.05	-60.736
	19876.55	-61.423
	22250.60	-59.798
	21646.85	-60.325
	24884.10	-59.246
	24321.65	-59.472
20	959.84	-64.387
	207.12	-69.722
	2449.85	-0.596
	2370.05	-66.428
	3837.25	-61.940
	4342.95	-63.817

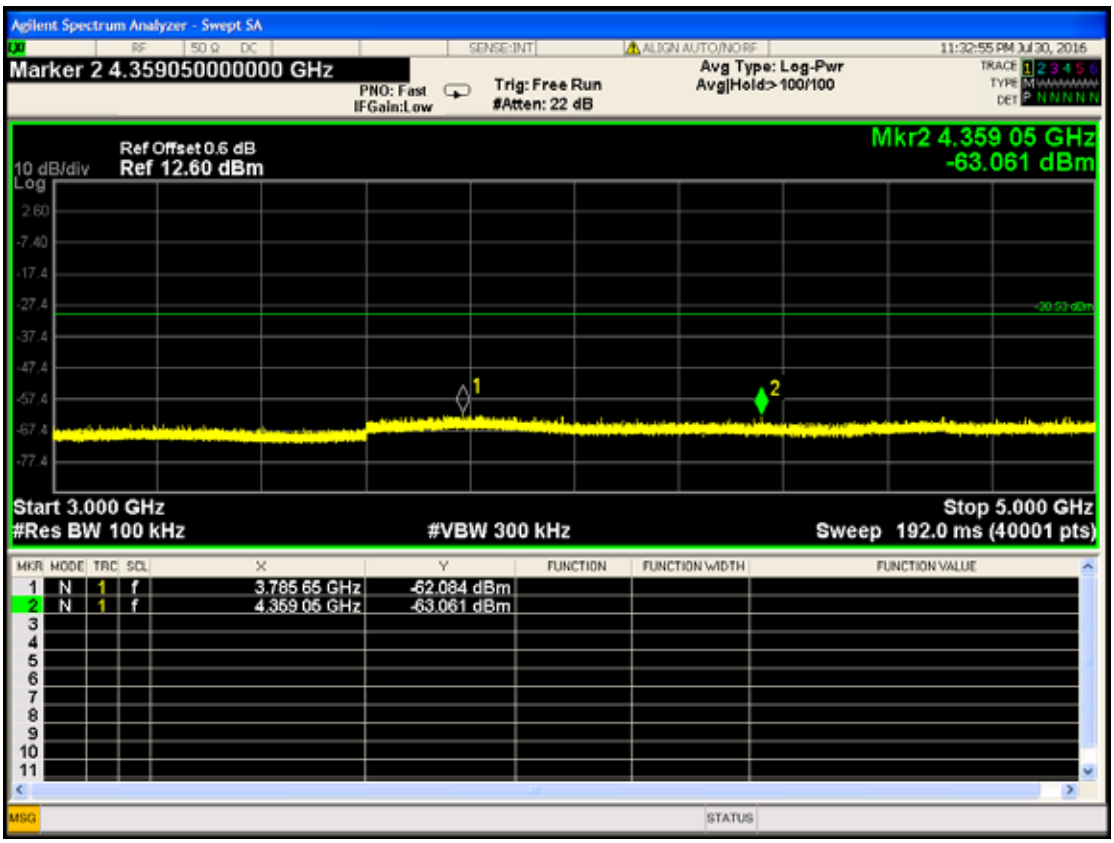
	5141.55	-62.242
	5718.10	-66.018
	8152.95	-62.105
	7572.15	-63.476
	10731.70	-62.587
	9647.10	-63.227
	12190.00	-62.590
	11960.25	-64.078
	14950.70	-62.515
	14226.60	-62.383
	15228.80	-62.339
	15740.60	-62.354
	18934.60	-61.502
	17863.00	-62.402
	19459.80	-60.462
	19815.45	-61.288
	22251.40	-59.531
	21827.40	-60.536
	23760.30	-59.672
	23605.75	-59.979
26	959.84	-64.005
	169.29	-69.274
	2479.85	0.332
	2000.00	-68.521
	3912.80	-62.628
	3832.05	-62.274
	5029.55	-63.473
	5582.35	-63.742
	8112.15	-62.607
	7743.15	-64.007
	10140.10	-62.462
	9919.20	-63.216
	11971.15	-63.932
	11443.20	-63.345
	14803.15	-61.866
	13605.60	-62.577
	15340.00	-61.830

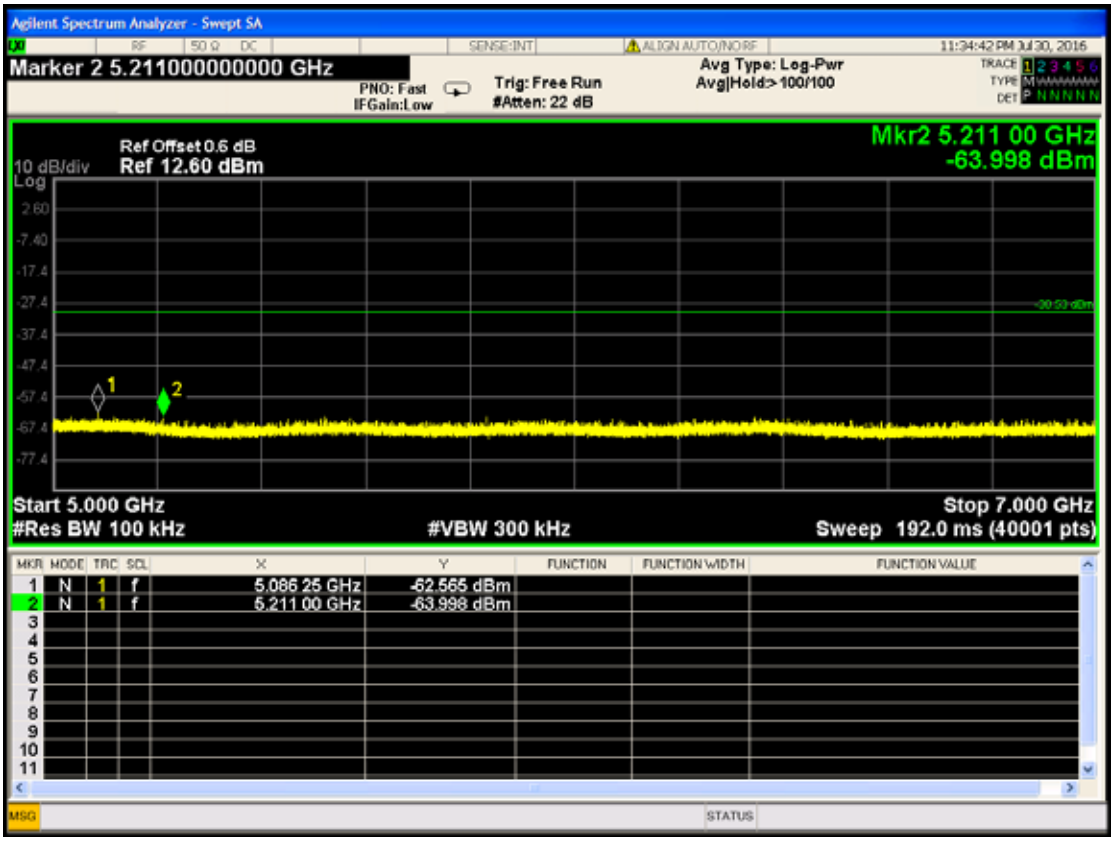
	15767.70	-62.704
	18859.60	-60.999
	17733.20	-62.027
	20669.85	-61.251
	19161.95	-60.209
	22296.30	-60.339
	22189.30	-59.040
	24442.55	-59.577
	24202.35	-58.678

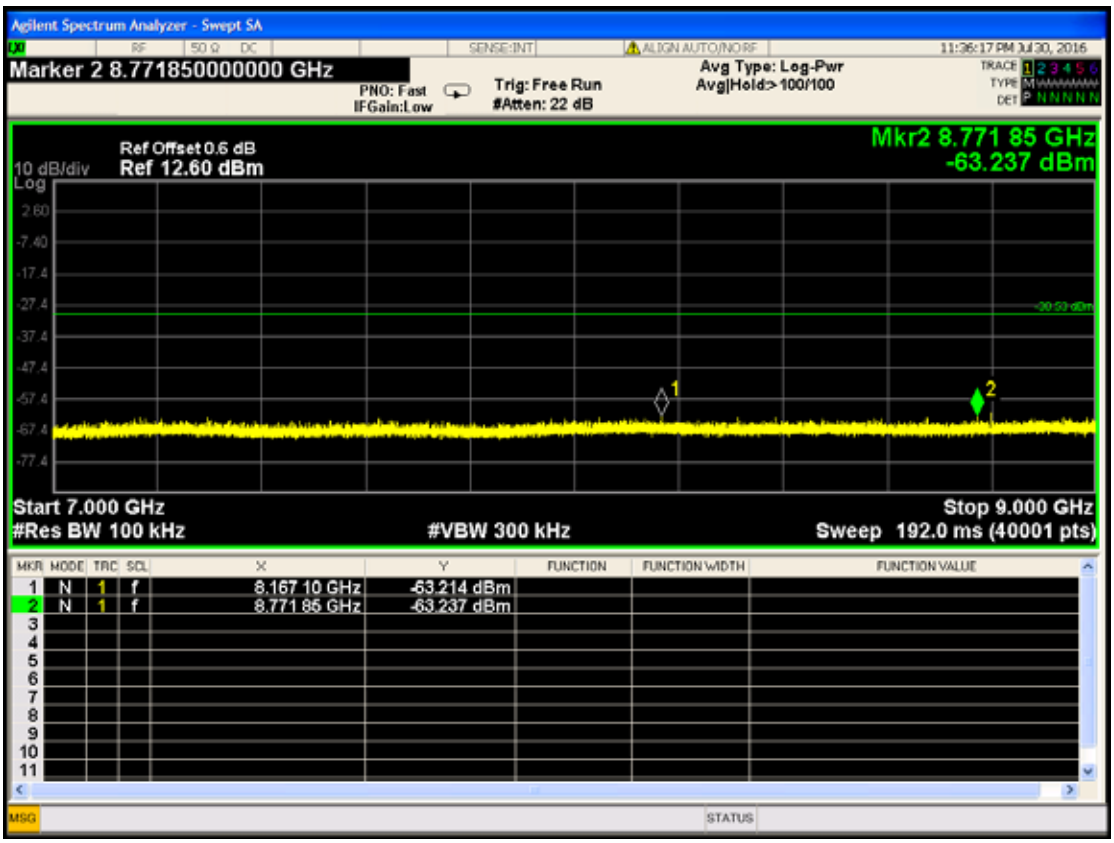
CH 11

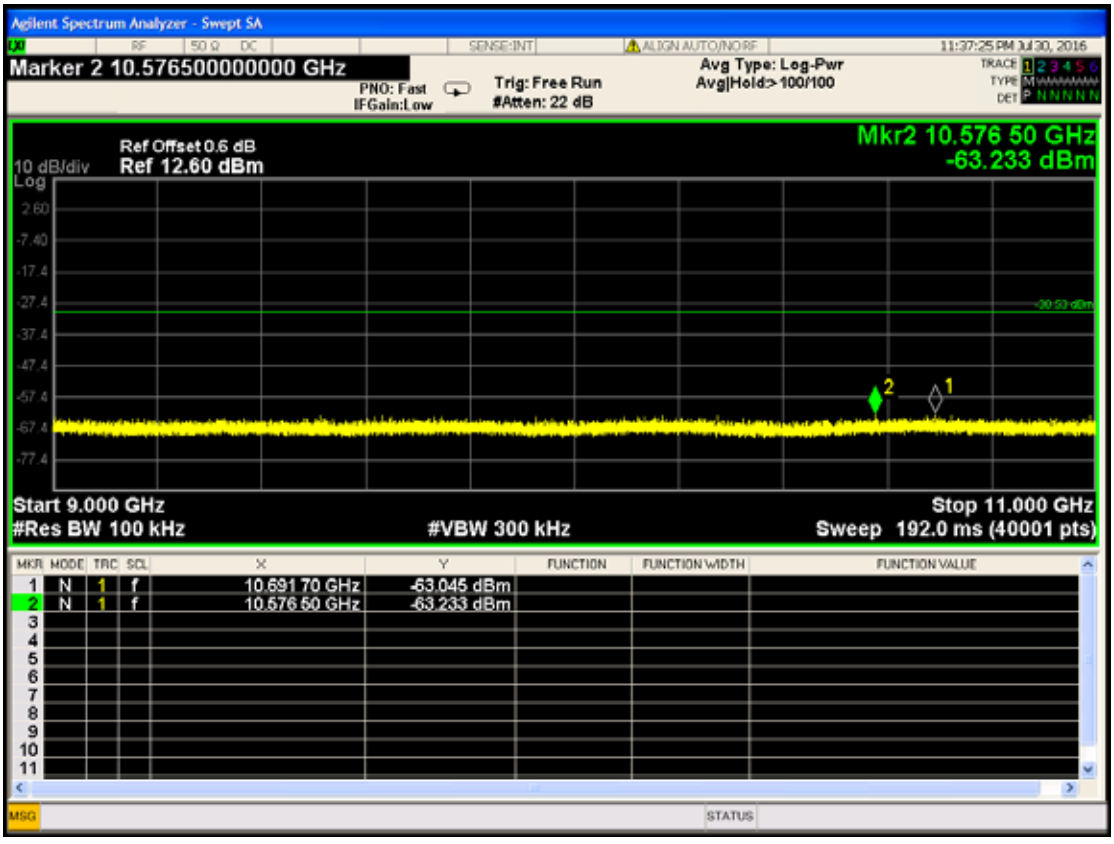

Agilent Spectrum Analyzer - Swept SA
Marker 2 780.052500000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
11:30:37 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Log
Ref 12.60 dBm
Mkr2 780.05 MHz
-70.494 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 93.33 ms (20001 pts)
1 N 1 f 959.84 MHz -64.285 dBm
2 N 1 f 780.05 MHz -70.494 dBm

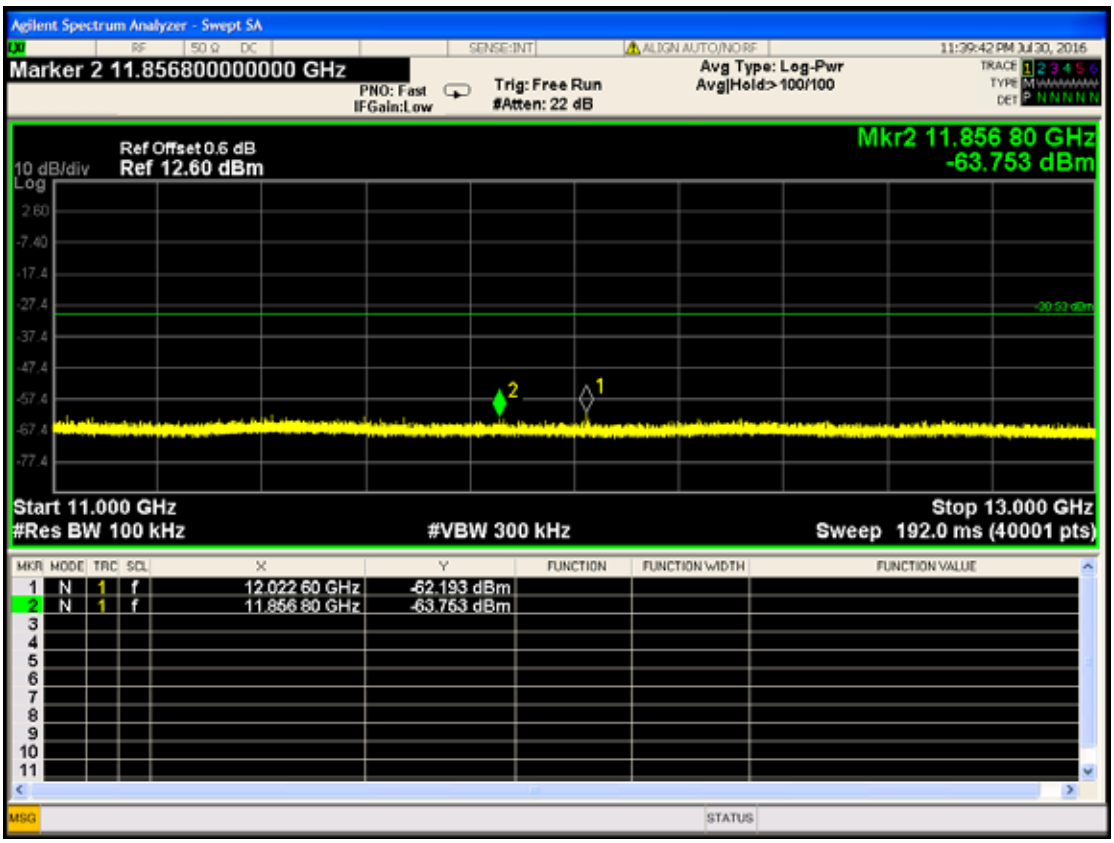

Agilent Spectrum Analyzer - Swept SA
Marker 2 1.730350000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
11:28:26 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Log
Ref 12.60 dBm
Mkr2 1.730 35 GHz
-69.938 dBm
Start 1.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 3.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 2.404 85 GHz -0.409 dBm
2 N 1 f 1.730 35 GHz -69.938 dBm

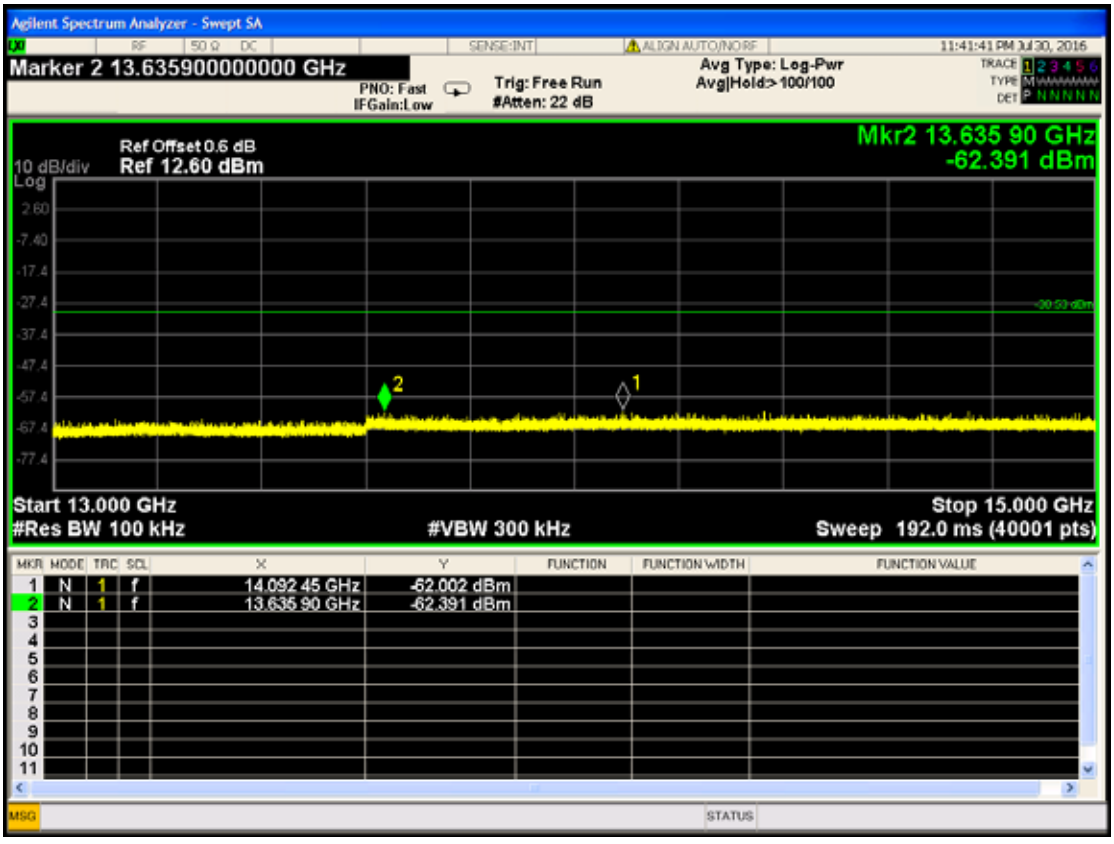

Agilent Spectrum Analyzer - Swept SA
Marker 2 4.359050000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
11:32:55 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Log
Ref 12.60 dBm
Mkr2 4.359 05 GHz
-63.061 dBm
Start 3.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 5.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 3.785 65 GHz -62.084 dBm
2 N 1 f 4.359 05 GHz -63.061 dBm

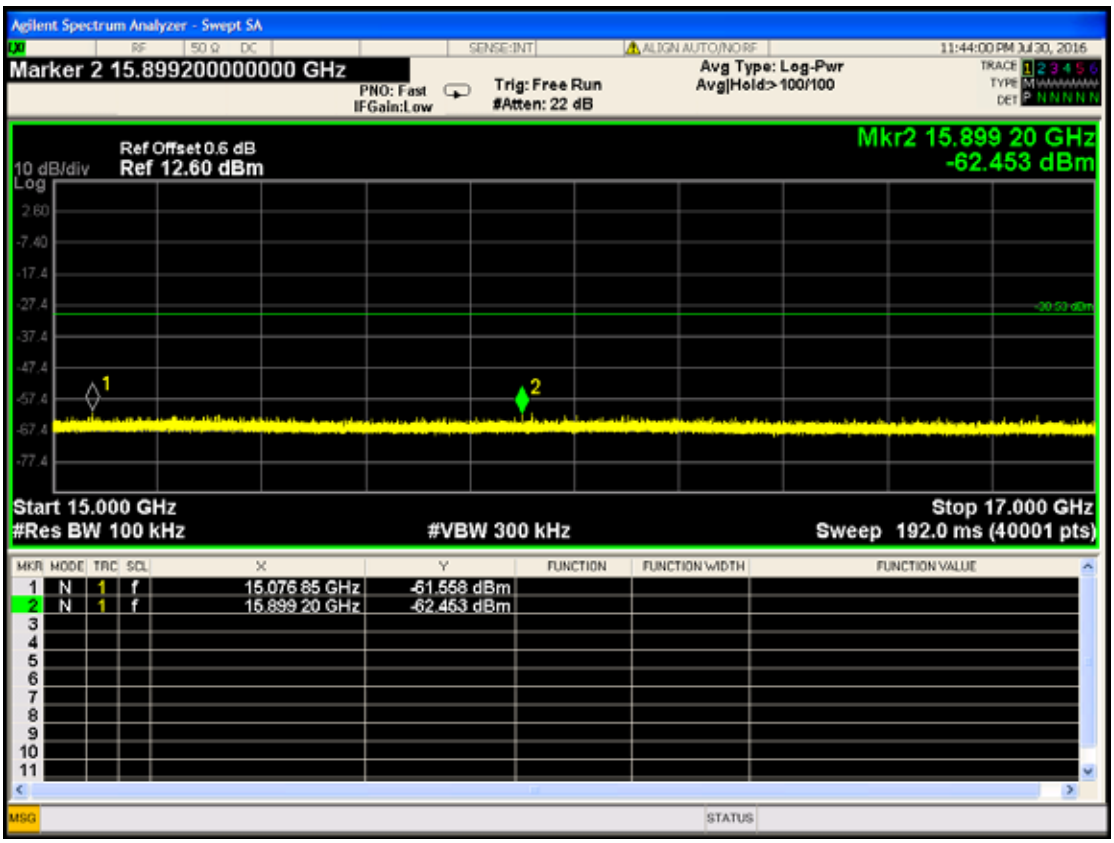

Agilent Spectrum Analyzer - Swept SA
Marker 2 5.211000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
11:34:42 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Log
Ref 12.60 dBm
Mkr2 5.211 00 GHz
-63.998 dBm
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 7.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 5.086 25 GHz -62.565 dBm
2 N 1 f 5.211 00 GHz -63.998 dBm

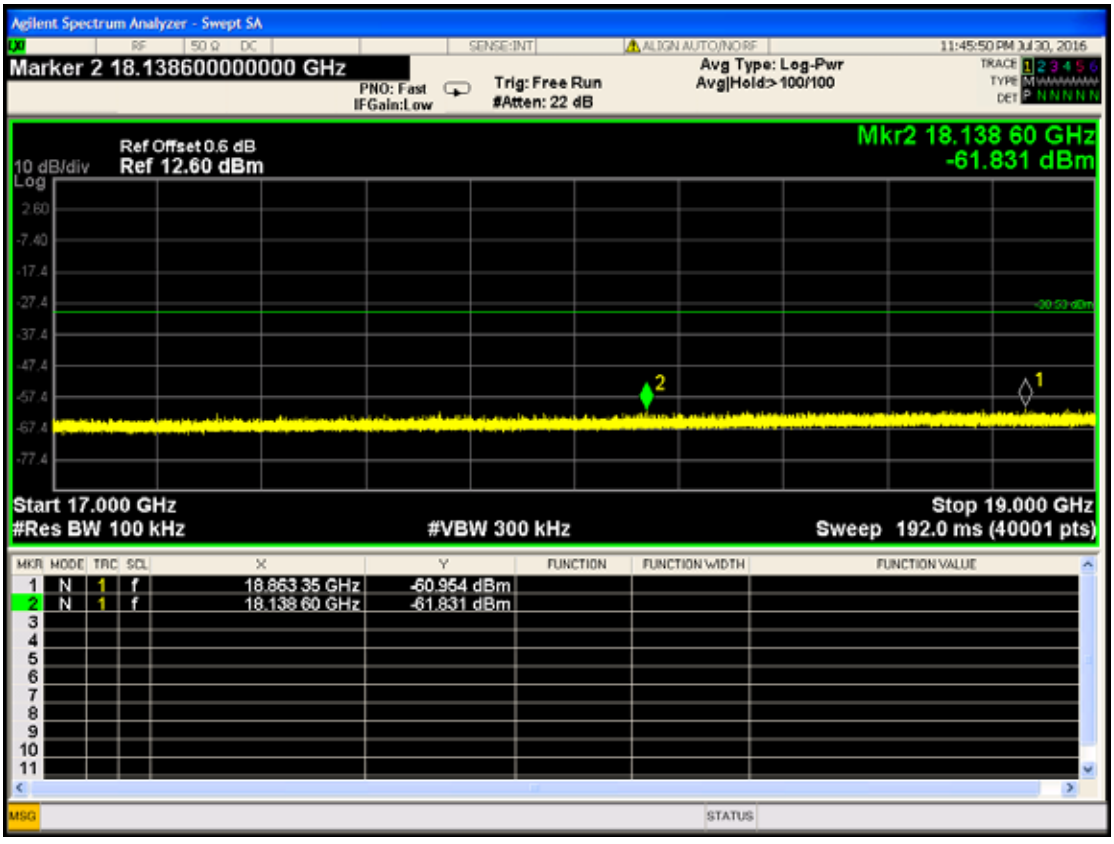

Agilent Spectrum Analyzer - Swept SA
Marker 2 8.771850000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
11:36:17 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Log
Ref 12.60 dBm
Mkr2 8.771 85 GHz
-63.237 dBm
Start 7.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 9.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 8.167 10 GHz -63.214 dBm
2 N 1 f 8.771 85 GHz -63.237 dBm

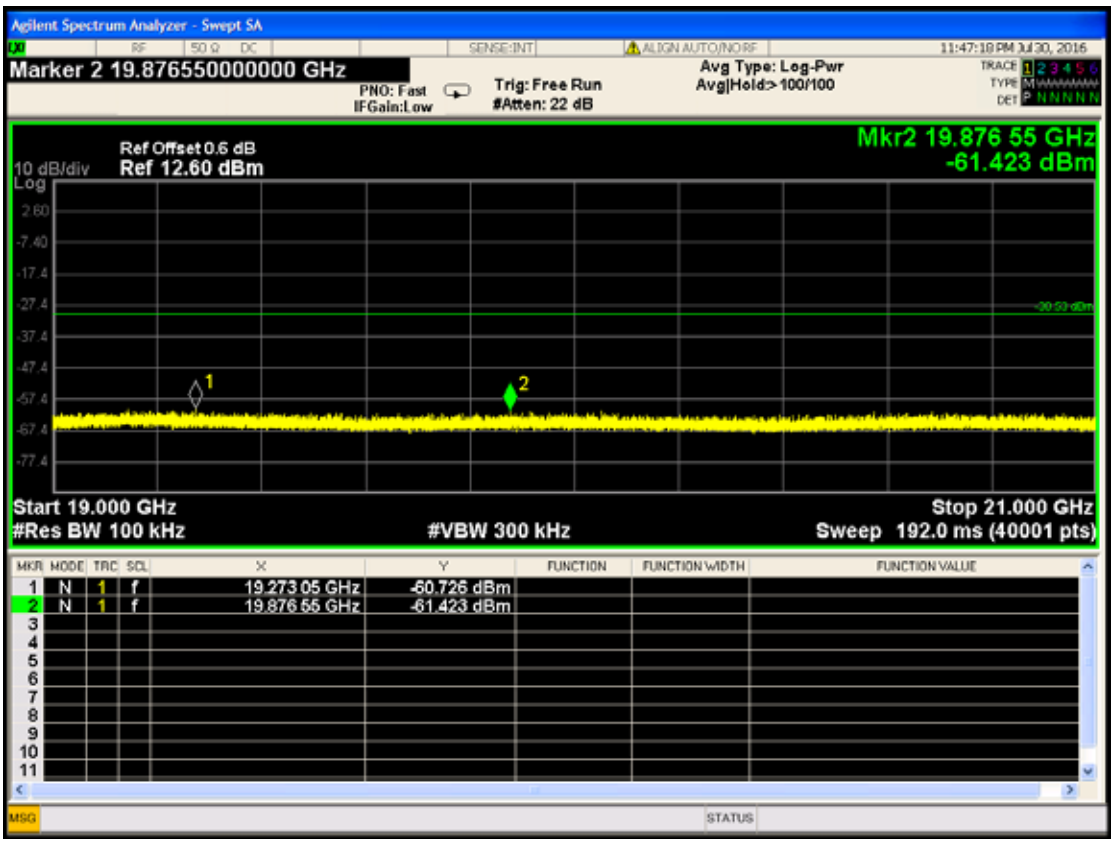

Agilent Spectrum Analyzer - Swept SA
Marker 2 10.576500000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
11:37:25 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Log
Ref 12.60 dBm
Mkr2 10.576 50 GHz
-63.233 dBm
Start 9.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 11.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 10.691 70 GHz -63.045 dBm
2 N 1 f 10.576 50 GHz -63.233 dBm

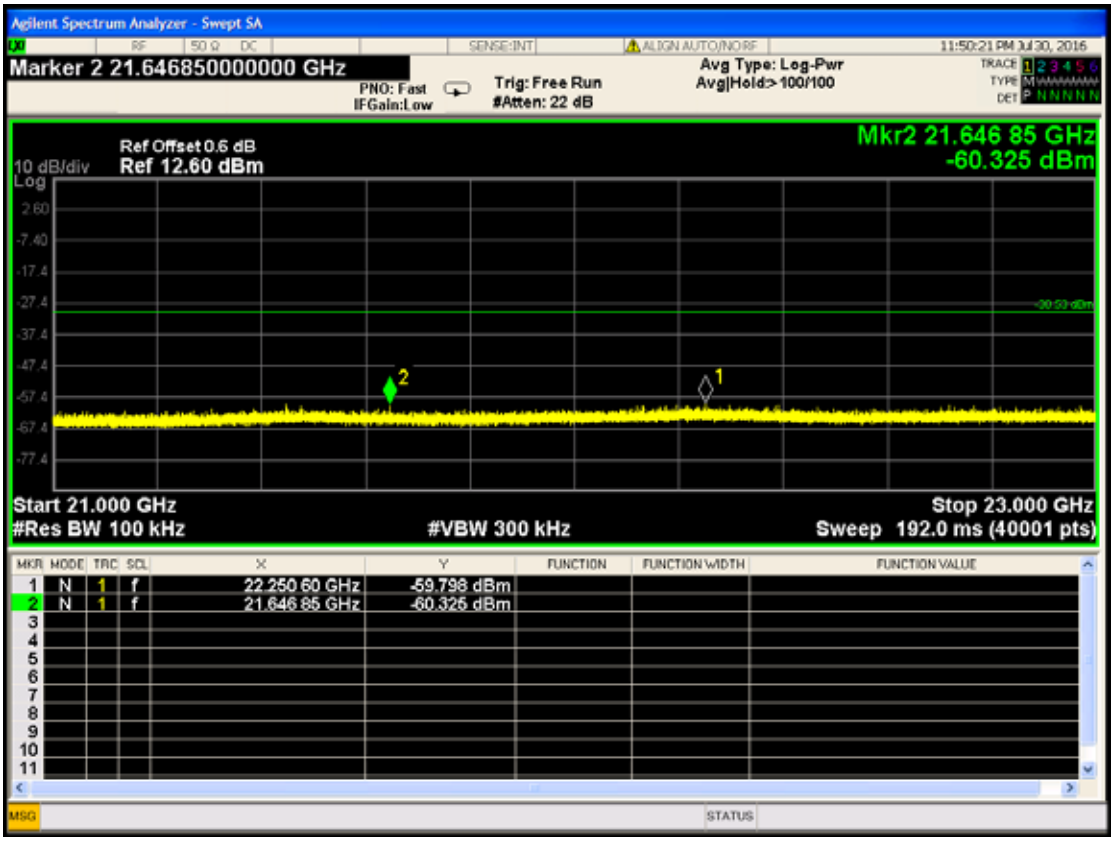

Agilent Spectrum Analyzer - Swept SA
Marker 2 11.856800000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
11:39:42 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 12.60 dBm
Log
Mkr2 11.856 80 GHz
-63.753 dBm
Start 11.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 13.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 12.022 60 GHz -62.193 dBm
2 N 1 f 11.856 80 GHz -63.753 dBm

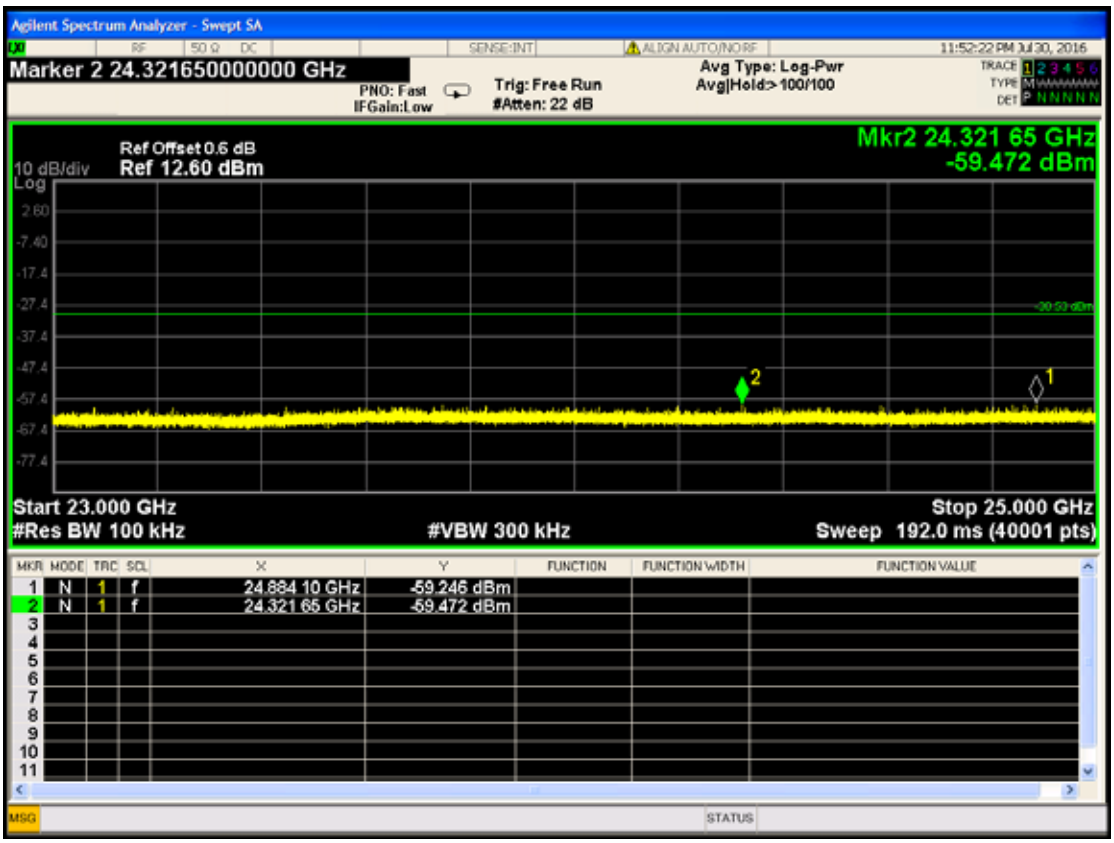

Agilent Spectrum Analyzer - Swept SA
Marker 2 13.635900000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
11:41:41 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 12.60 dBm
Log
Mkr2 13.635 90 GHz
-62.391 dBm
Start 13.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 14.092 45 GHz -62.002 dBm
2 N 1 f 13.635 90 GHz -62.391 dBm


Agilent Spectrum Analyzer - Swept SA
Marker 2 15.899200000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
11:44:00 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 12.60 dBm
Log
Mkr2 15.899 20 GHz
-62.453 dBm
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 17.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 15.076 85 GHz -61.558 dBm
2 N 1 f 15.899 20 GHz -62.453 dBm

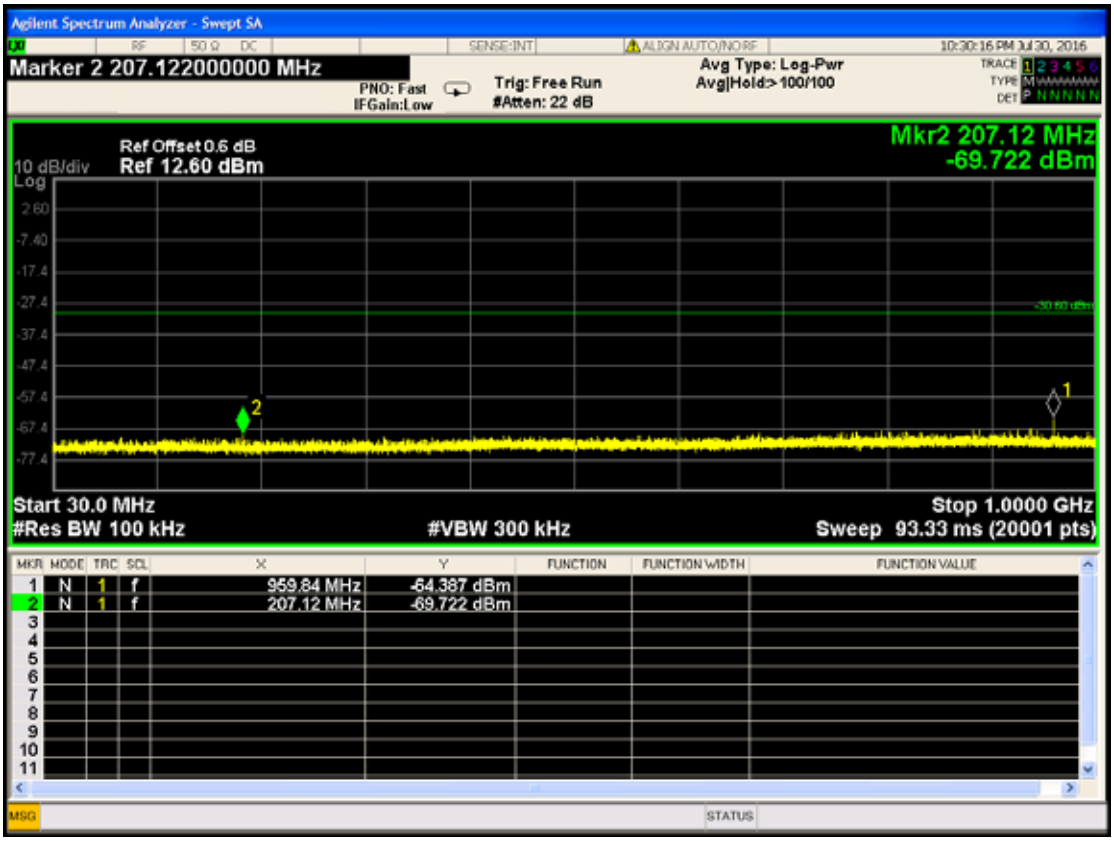

Agilent Spectrum Analyzer - Swept SA
Marker 2 18.138600000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
11:45:50 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 12.60 dBm
Log
Mkr2 18.138 60 GHz
-61.831 dBm
Start 17.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 19.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 18.863 35 GHz -60.954 dBm
2 N 1 f 18.138 60 GHz -61.831 dBm

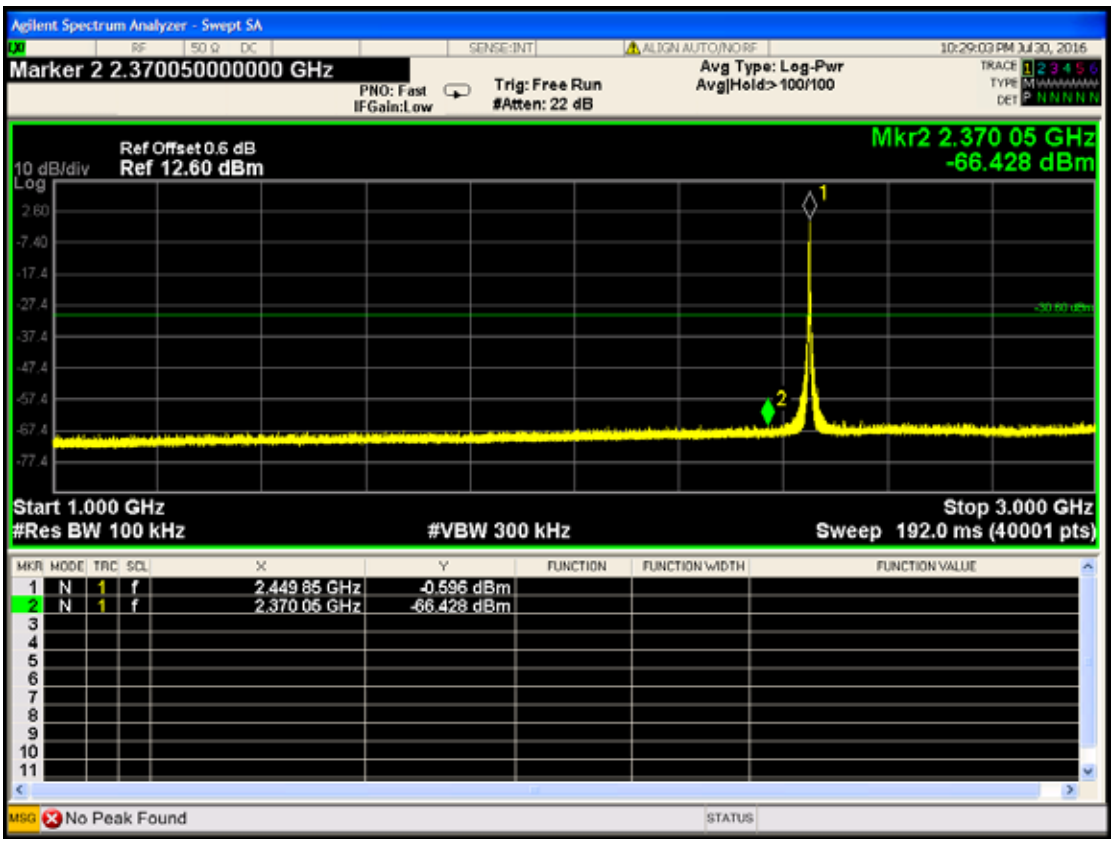

Agilent Spectrum Analyzer - Swept SA
Marker 2 19.876550000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
11:47:18 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 12.60 dBm
Log
Mkr2 19.876 55 GHz
-61.423 dBm
Start 19.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 21.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 19.273 05 GHz -60.726 dBm
2 N 1 f 19.876 55 GHz -61.423 dBm

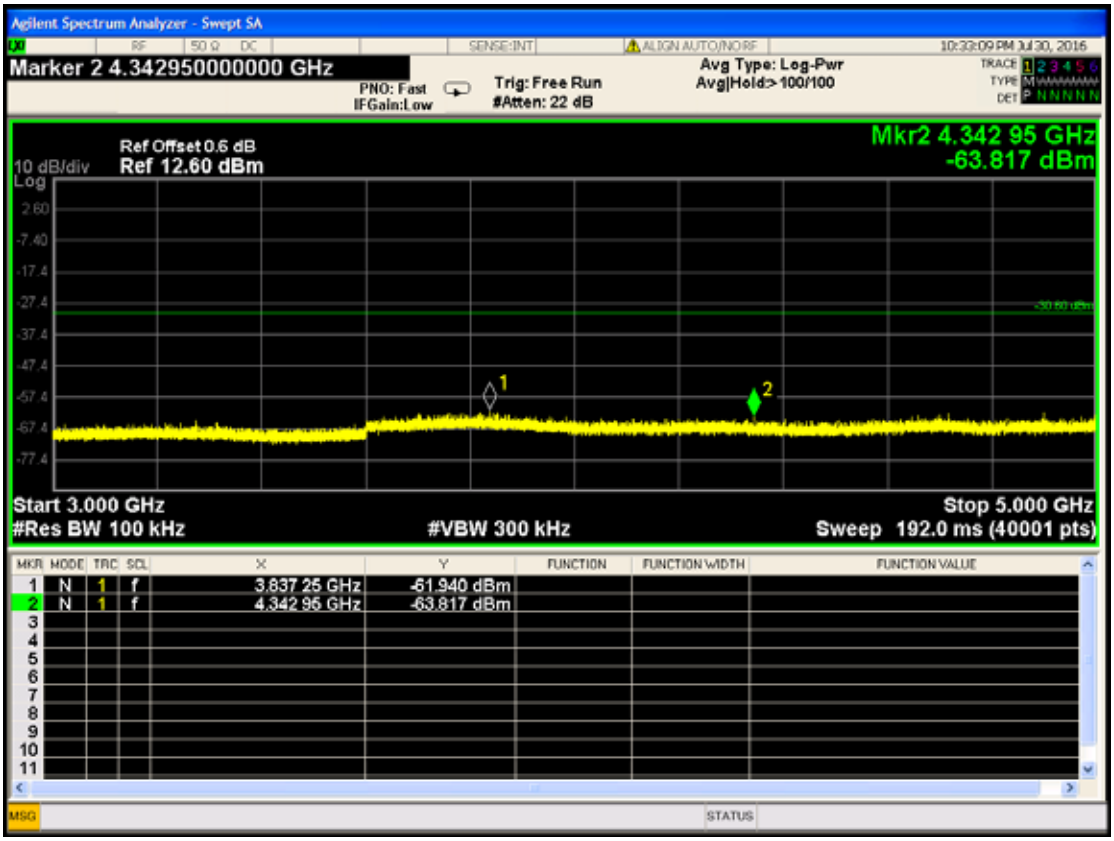

Agilent Spectrum Analyzer - Swept SA
Marker 2 21.646850000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
11:50:21 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 12.60 dBm
Log
Mkr2 21.646 85 GHz
-60.325 dBm
Start 21.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 23.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 22.250 60 GHz -59.798 dBm
2 N 1 f 21.646 85 GHz -60.325 dBm

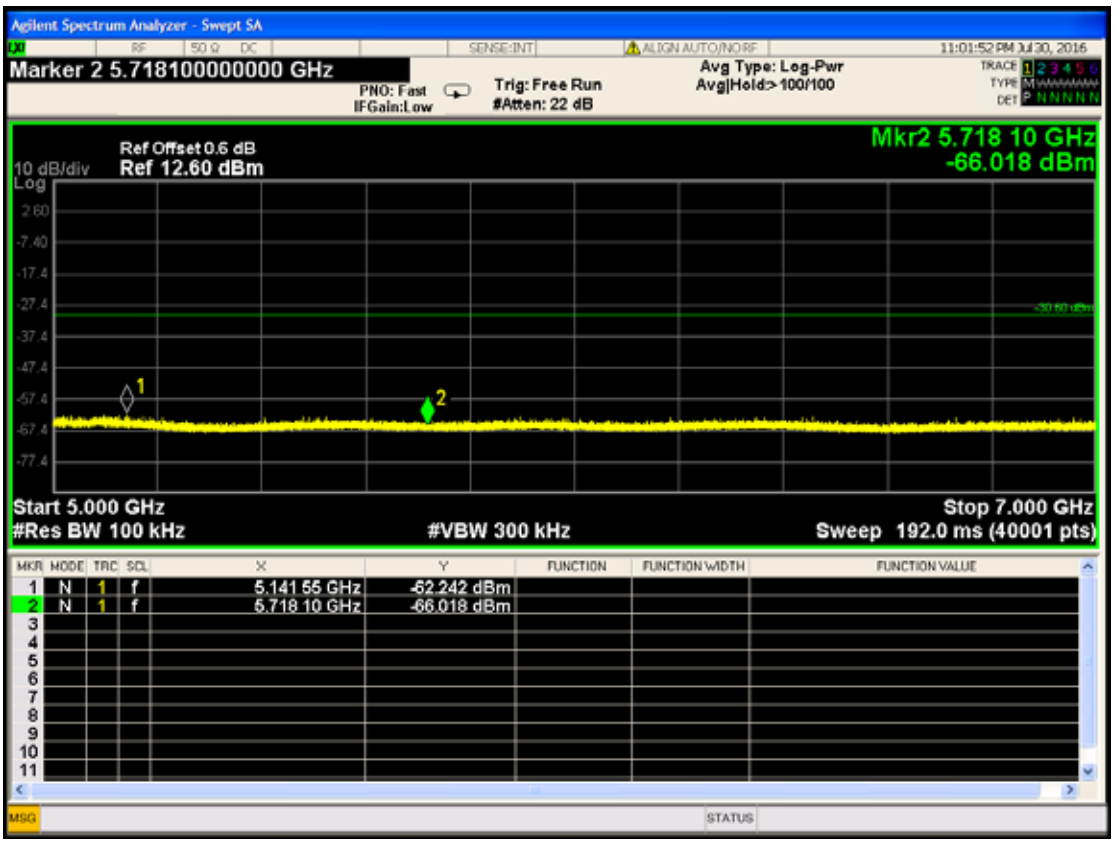

Agilent Spectrum Analyzer - Swept SA
Marker 2 24.321650000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
11:52:22 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 12.60 dBm
Log
Mkr2 24.321 65 GHz
-59.472 dBm
Start 23.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 24.884 10 GHz -59.246 dBm
2 N 1 f 24.321 65 GHz -59.472 dBm

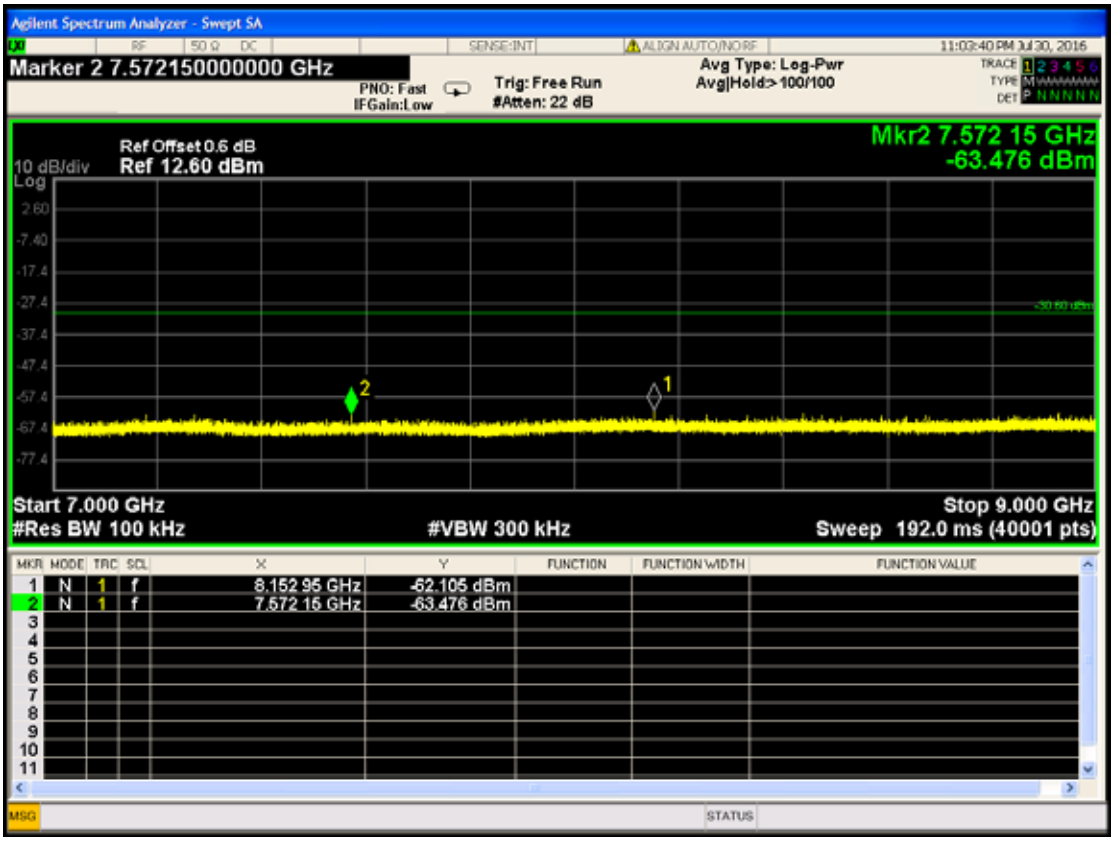
CH 20

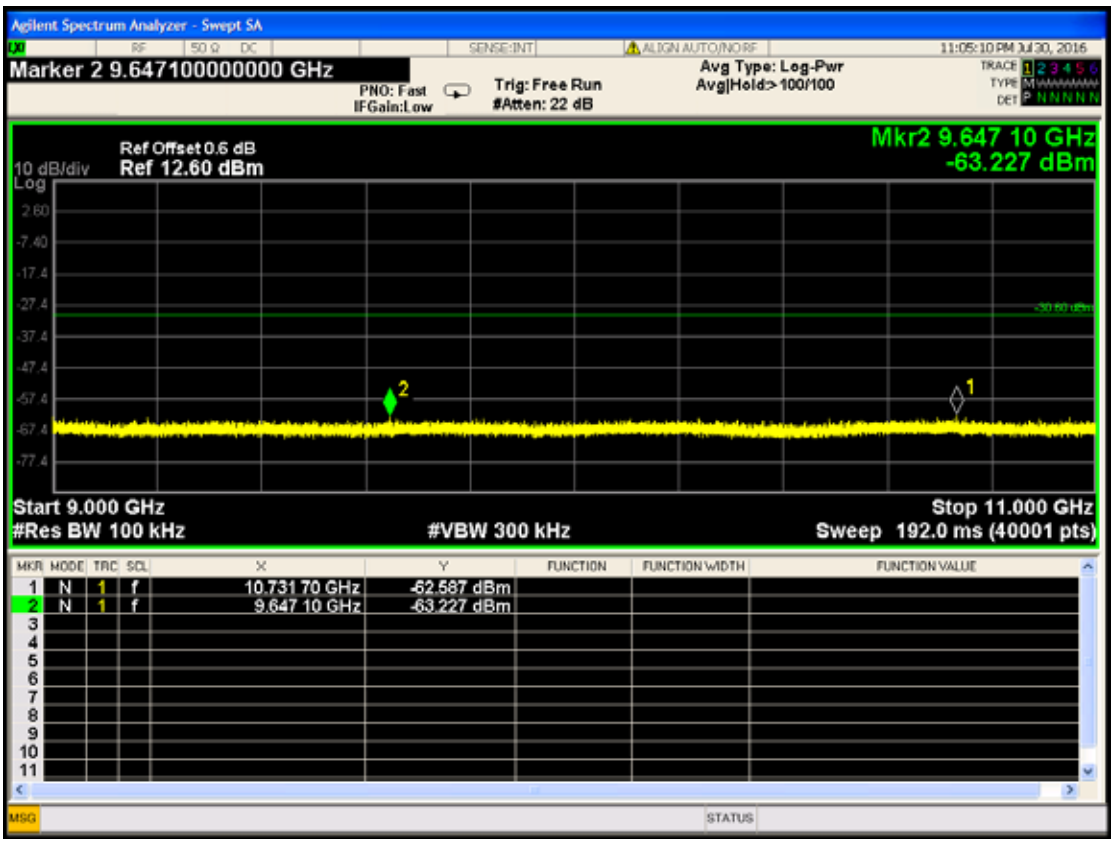

Agilent Spectrum Analyzer - Swept SA
Marker 2 207.122000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
10:30:16 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 12.60 dBm
Log
Mkr2 207.12 MHz
-69.722 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 93.33 ms (20001 pts)
1 N 1 f 959.84 MHz -64.387 dBm
2 N 1 f 207.12 MHz -69.722 dBm

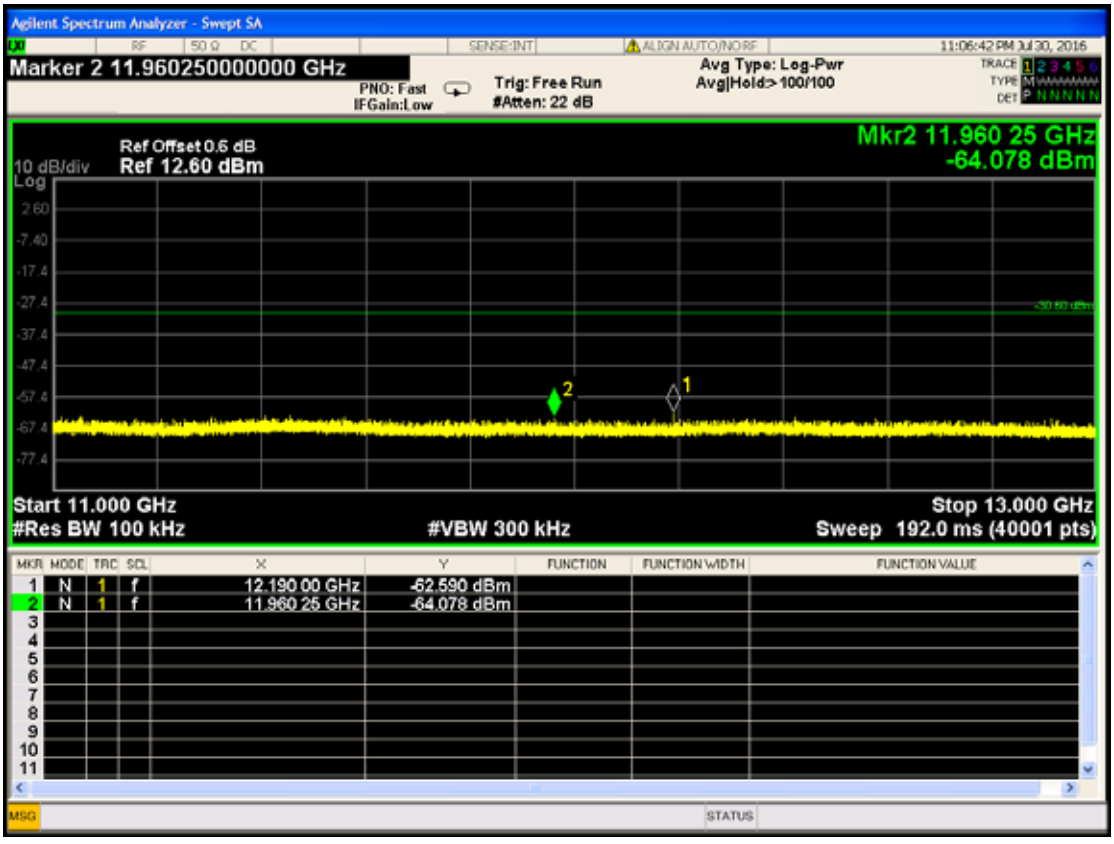

Agilent Spectrum Analyzer - Swept SA
Marker 2 2.370050000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
10:29:03 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 12.60 dBm
Log
Mkr2 2.370 05 GHz
-66.428 dBm
Start 1.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 3.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 2.449 85 GHz -0.596 dBm
2 N 1 f 2.370 05 GHz -66.428 dBm
No Peak Found

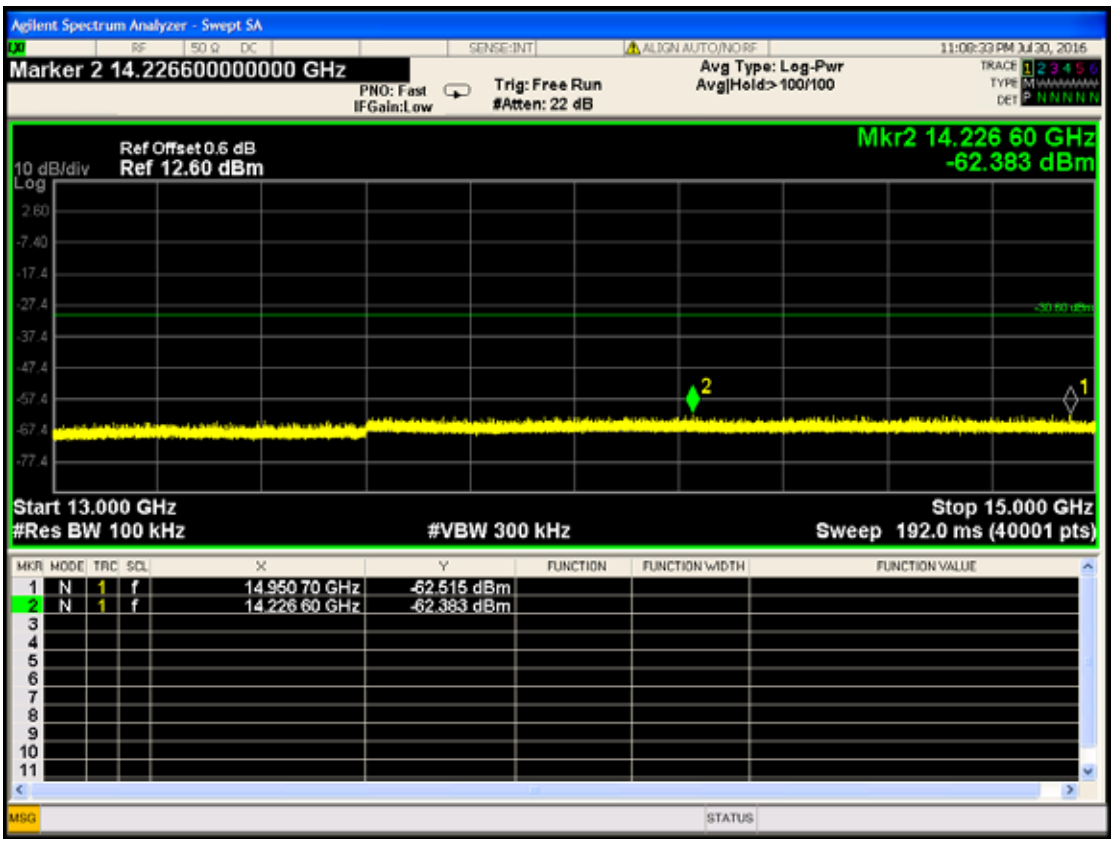

Agilent Spectrum Analyzer - Swept SA
Marker 2 4.342950000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
10:32:09 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 12.60 dBm
Log
Mkr2 4.342 95 GHz
-63.817 dBm
Start 3.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 5.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 3.837 25 GHz -61.940 dBm
2 N 1 f 4.342 95 GHz -63.817 dBm

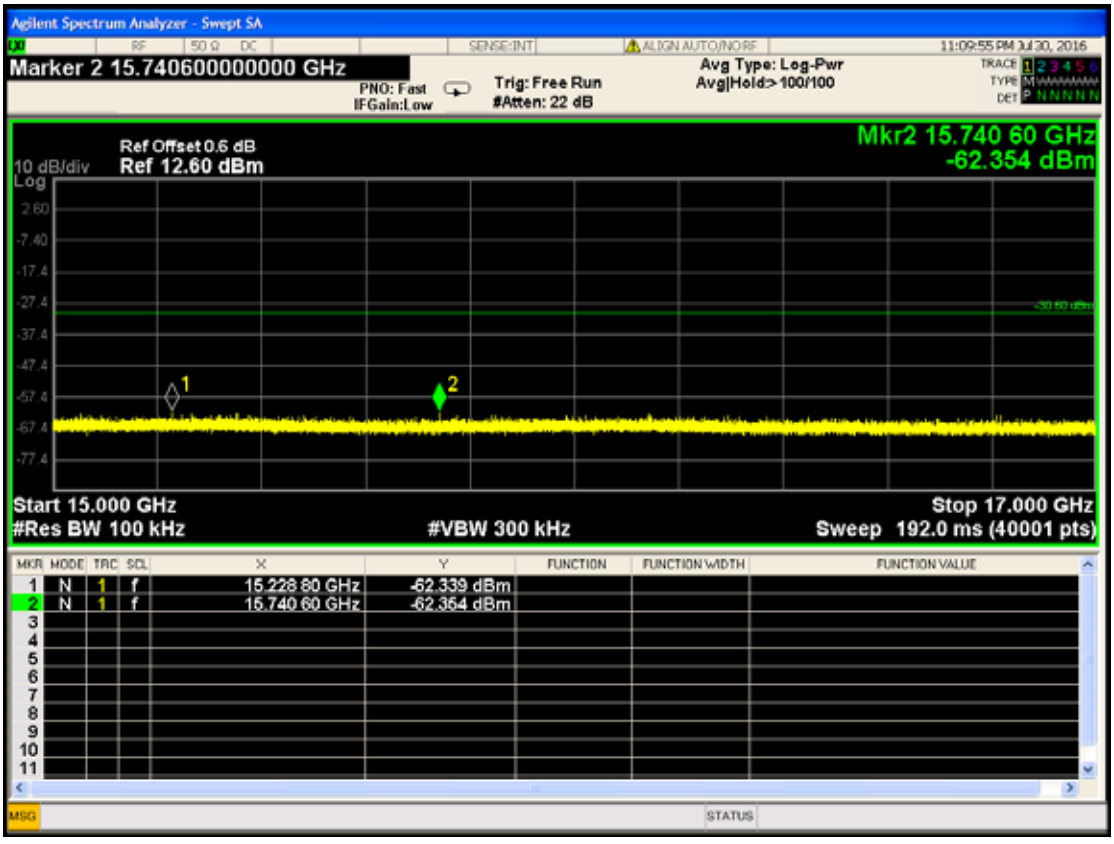

Agilent Spectrum Analyzer - Swept SA
Marker 2 5.718100000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
11:01:52 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Log
Ref 12.60 dBm
Mkr2 5.718 10 GHz
-66.018 dBm
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 7.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 5.141 55 GHz -62.242 dBm
2 N 1 f 5.718 10 GHz -66.018 dBm

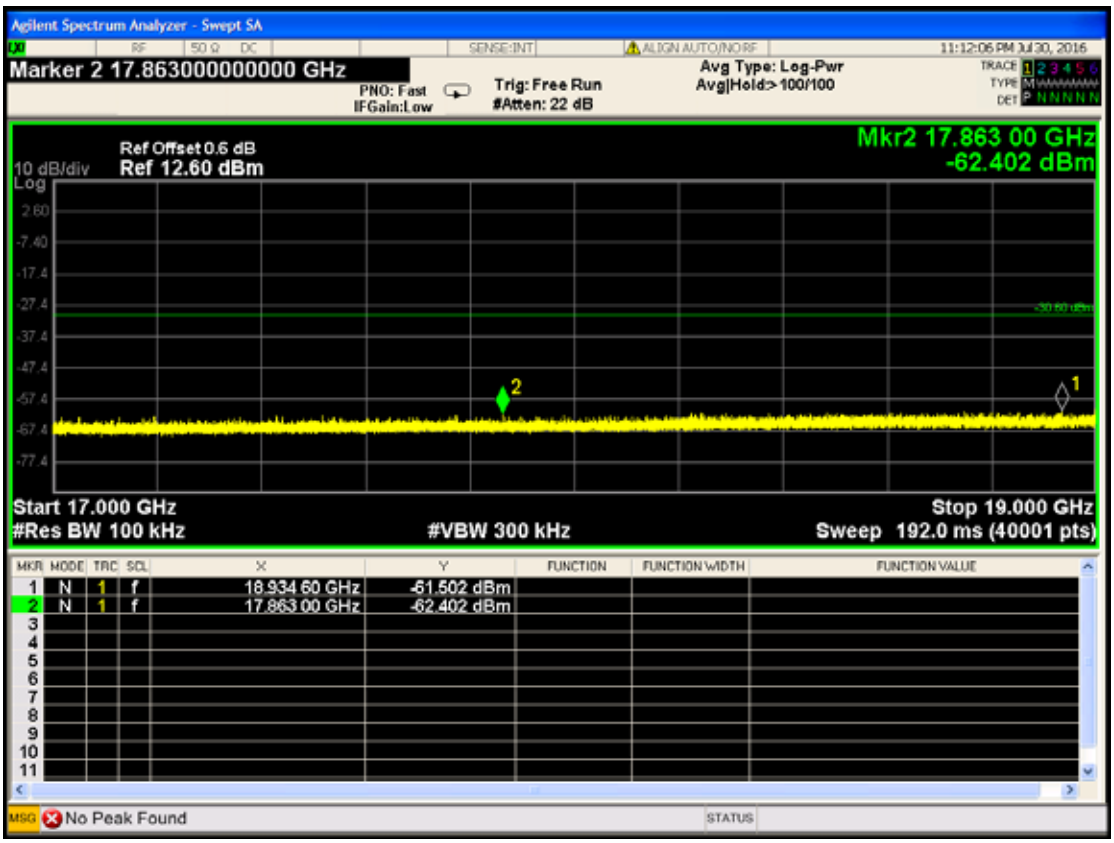

Agilent Spectrum Analyzer - Swept SA
Marker 2 7.572150000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
11:02:40 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Log
Ref 12.60 dBm
Mkr2 7.572 15 GHz
-63.476 dBm
Start 7.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 9.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 8.152 95 GHz -62.105 dBm
2 N 1 f 7.572 15 GHz -63.476 dBm

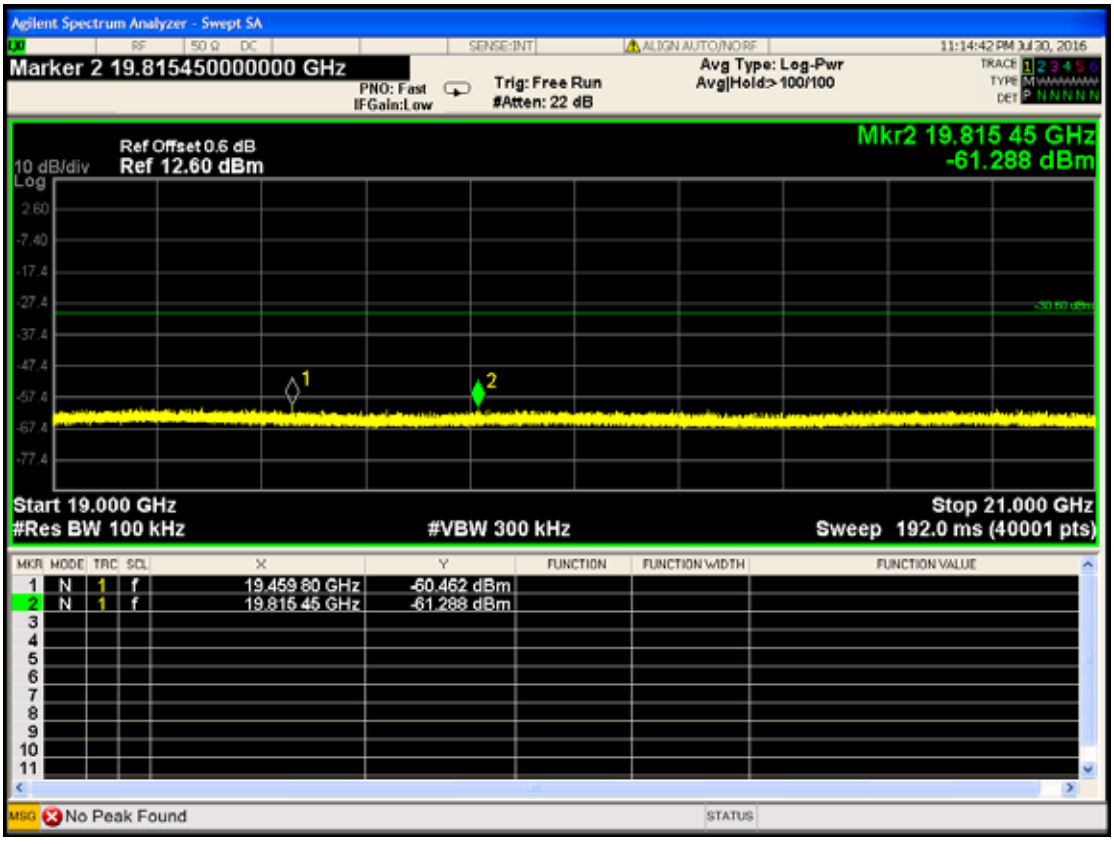

Agilent Spectrum Analyzer - Swept SA
Marker 2 9.647100000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
11:05:10 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Log
Ref 12.60 dBm
Mkr2 9.647 10 GHz
-63.227 dBm
Start 9.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 11.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 10.731 70 GHz -62.587 dBm
2 N 1 f 9.647 10 GHz -63.227 dBm

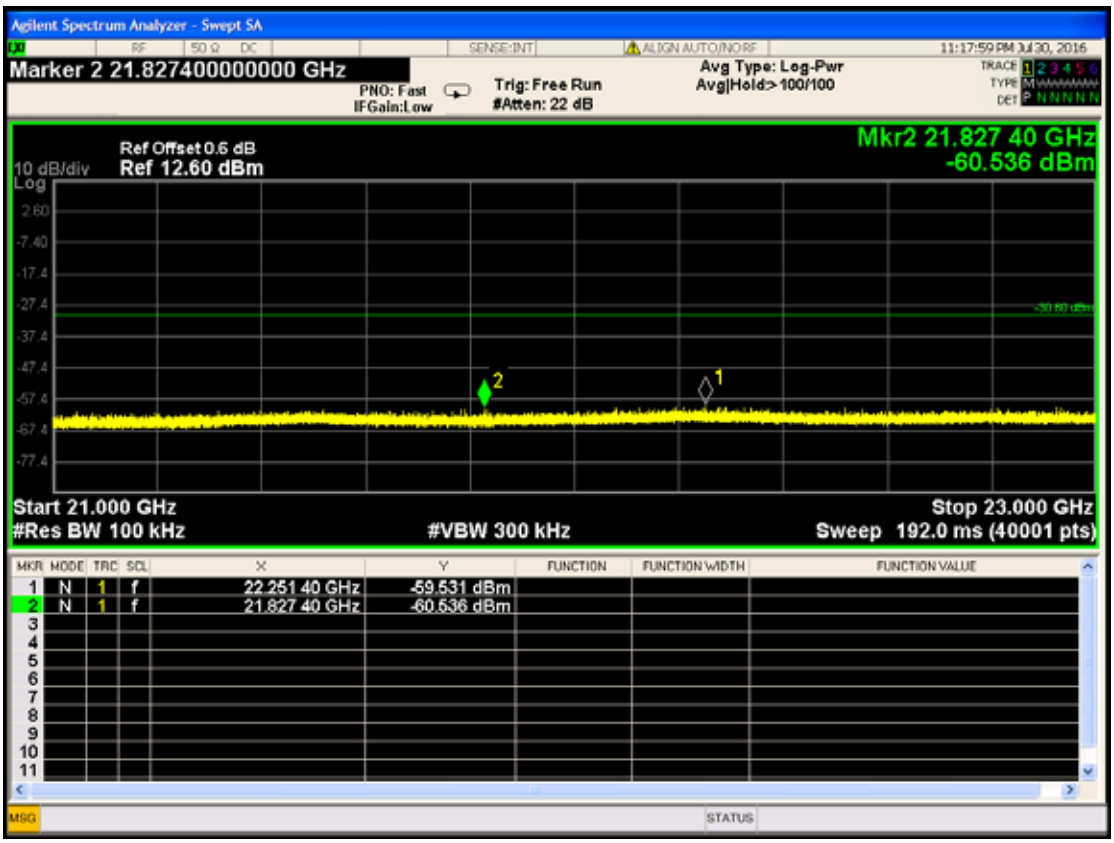

Agilent Spectrum Analyzer - Swept SA
Marker 2 11.960250000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
11:06:42 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Log
Ref 12.60 dBm
Mkr2 11.960 25 GHz
-64.078 dBm
Start 11.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 13.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 12.190 00 GHz -62.590 dBm
2 N 1 f 11.960 25 GHz -64.078 dBm

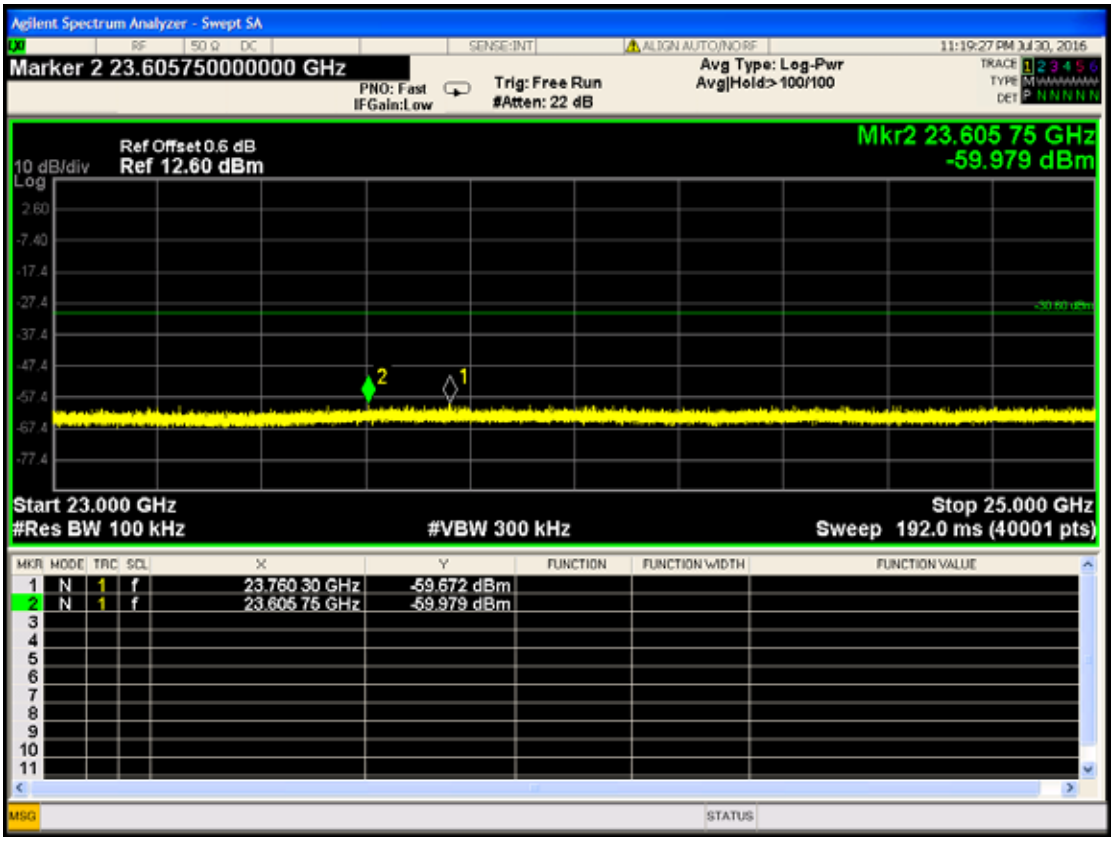

Agilent Spectrum Analyzer - Swept SA
Marker 2 14.226600000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
11:08:33 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 12.60 dBm
Log
Mkr2 14.226 60 GHz
-62.383 dBm
Start 13.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 14.950 70 GHz -62.515 dBm
2 N 1 f 14.226 60 GHz -62.383 dBm


Agilent Spectrum Analyzer - Swept SA
Marker 2 15.740600000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
11:09:55 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 12.60 dBm
Log
Mkr2 15.740 60 GHz
-62.354 dBm
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 17.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 15.228 80 GHz -62.339 dBm
2 N 1 f 15.740 60 GHz -62.354 dBm

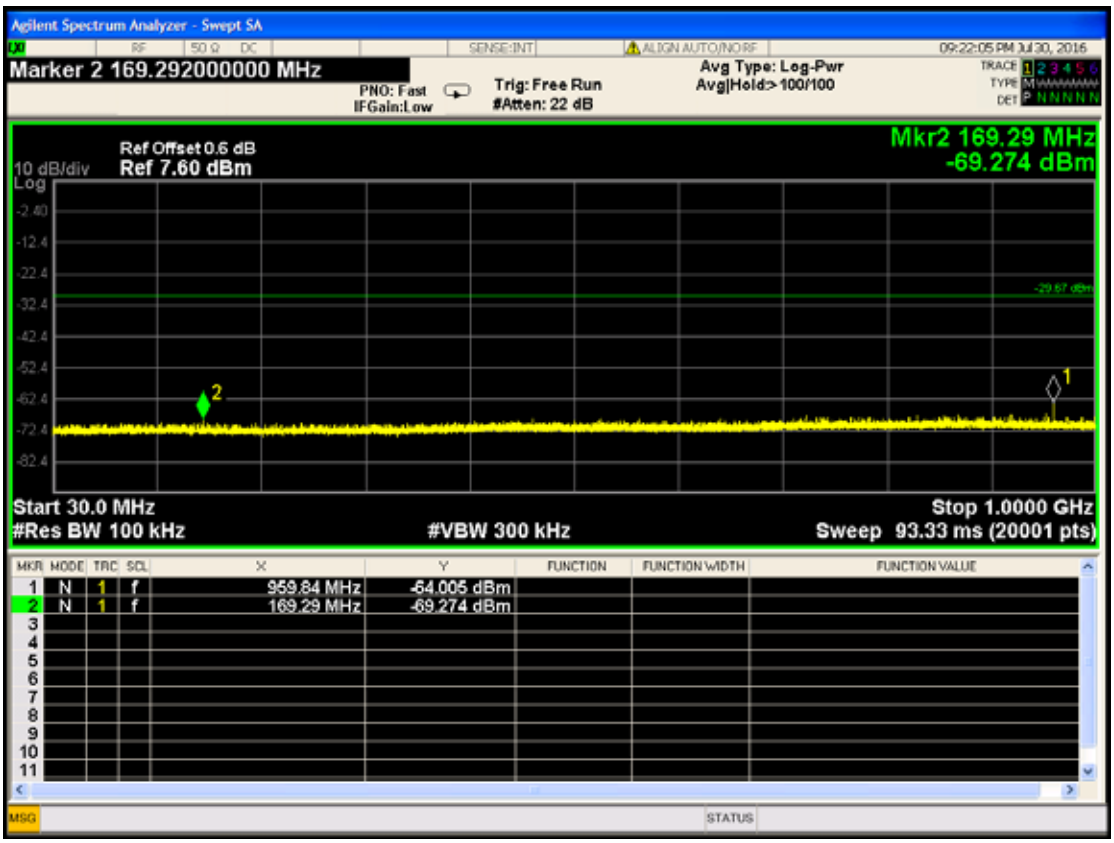

Agilent Spectrum Analyzer - Swept SA
Marker 2 17.863000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
11:12:06 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 12.60 dBm
Log
Mkr2 17.863 00 GHz
-62.402 dBm
Start 17.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 19.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 18.934 60 GHz -61.502 dBm
2 N 1 f 17.863 00 GHz -62.402 dBm
No Peak Found

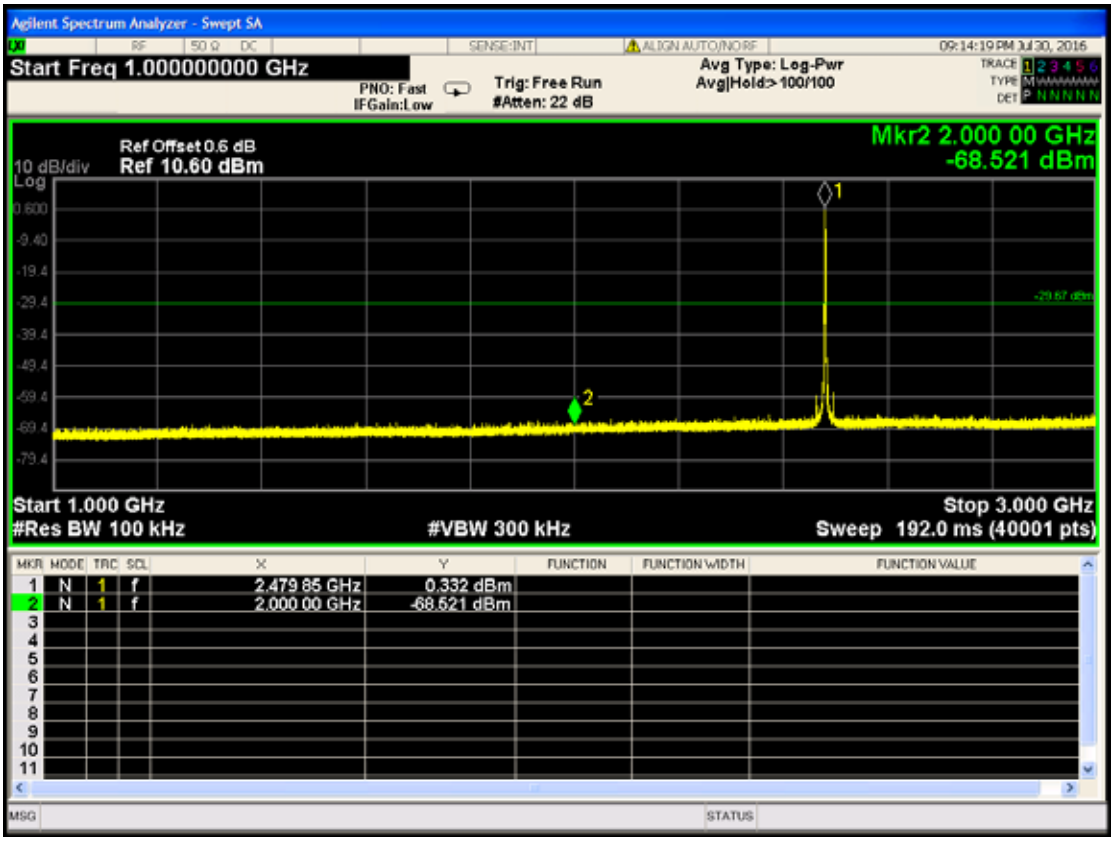

Agilent Spectrum Analyzer - Swept SA
Marker 2 19.815450000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
11:14:42 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 12.60 dBm
Log
Mkr2 19.815 45 GHz
-61.288 dBm
Start 19.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 21.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 19.459 80 GHz -60.462 dBm
2 N 1 f 19.815 45 GHz -61.288 dBm
No Peak Found

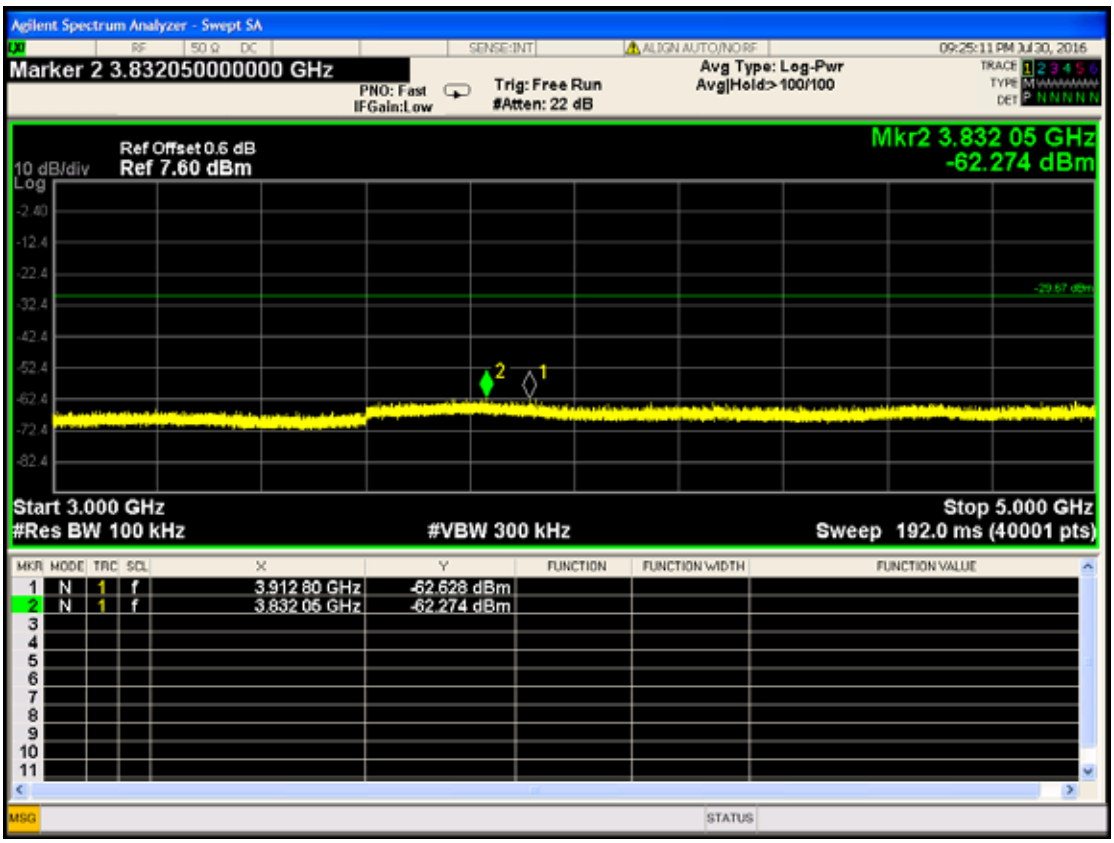

Agilent Spectrum Analyzer - Swept SA
Marker 2 21.827400000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
11:17:59 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Log
Ref 12.60 dBm
Mkr2 21.827 40 GHz
-60.536 dBm
Start 21.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 23.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 22.251 40 GHz -59.531 dBm
2 N 1 f 21.827 40 GHz -60.536 dBm

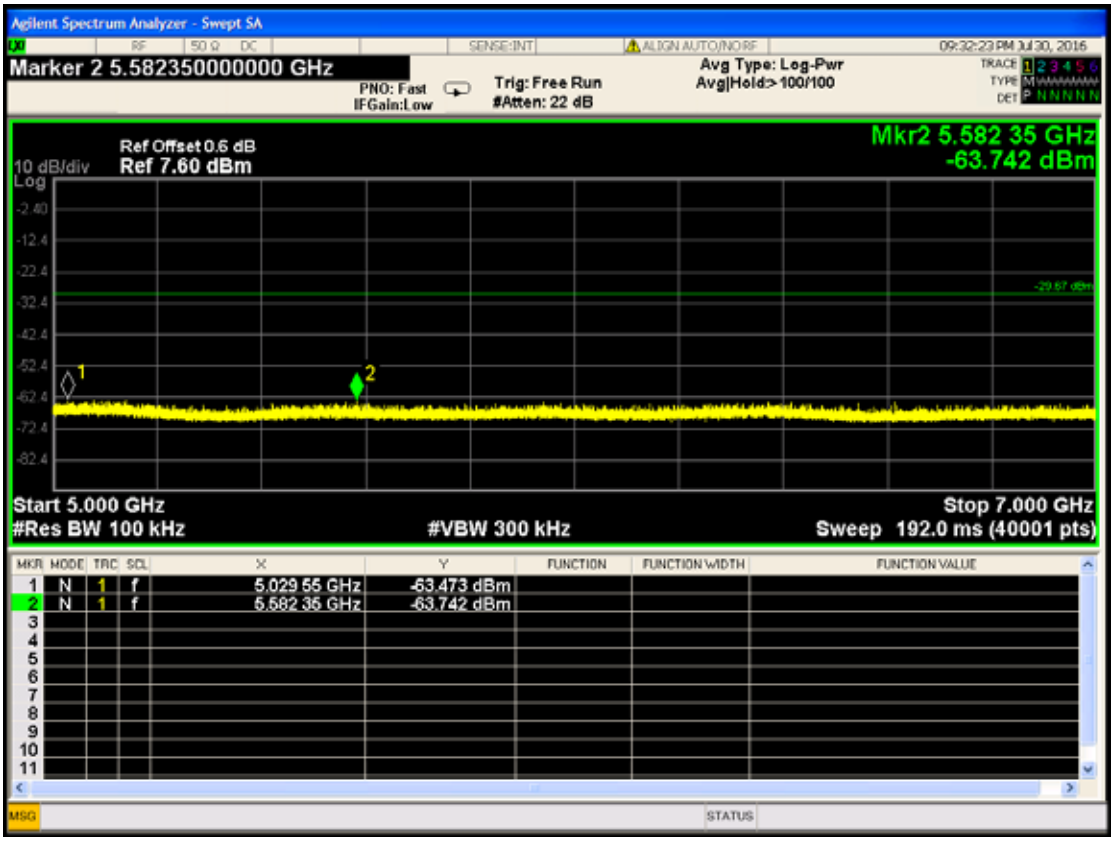

Agilent Spectrum Analyzer - Swept SA
Marker 2 23.605750000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
11:19:27 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Log
Ref 12.60 dBm
Mkr2 23.605 75 GHz
-59.979 dBm
Start 23.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 23.760 30 GHz -59.672 dBm
2 N 1 f 23.605 75 GHz -59.979 dBm

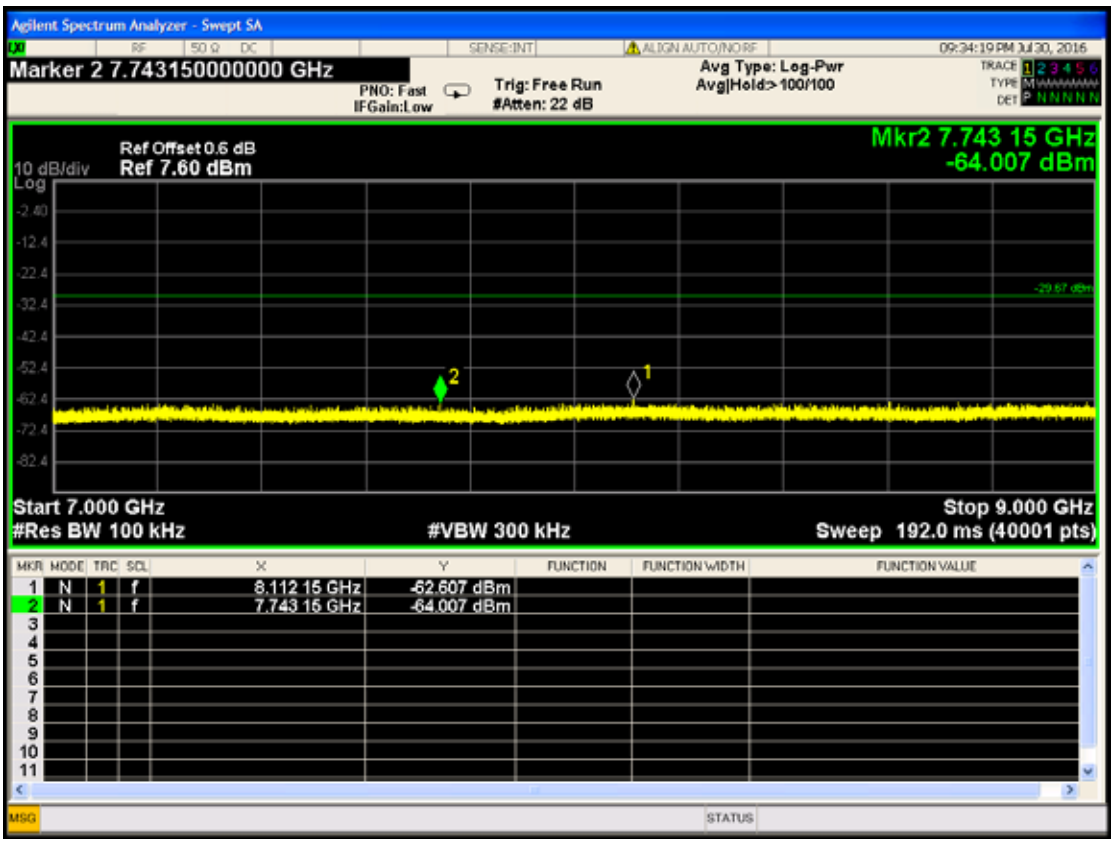
CH 26

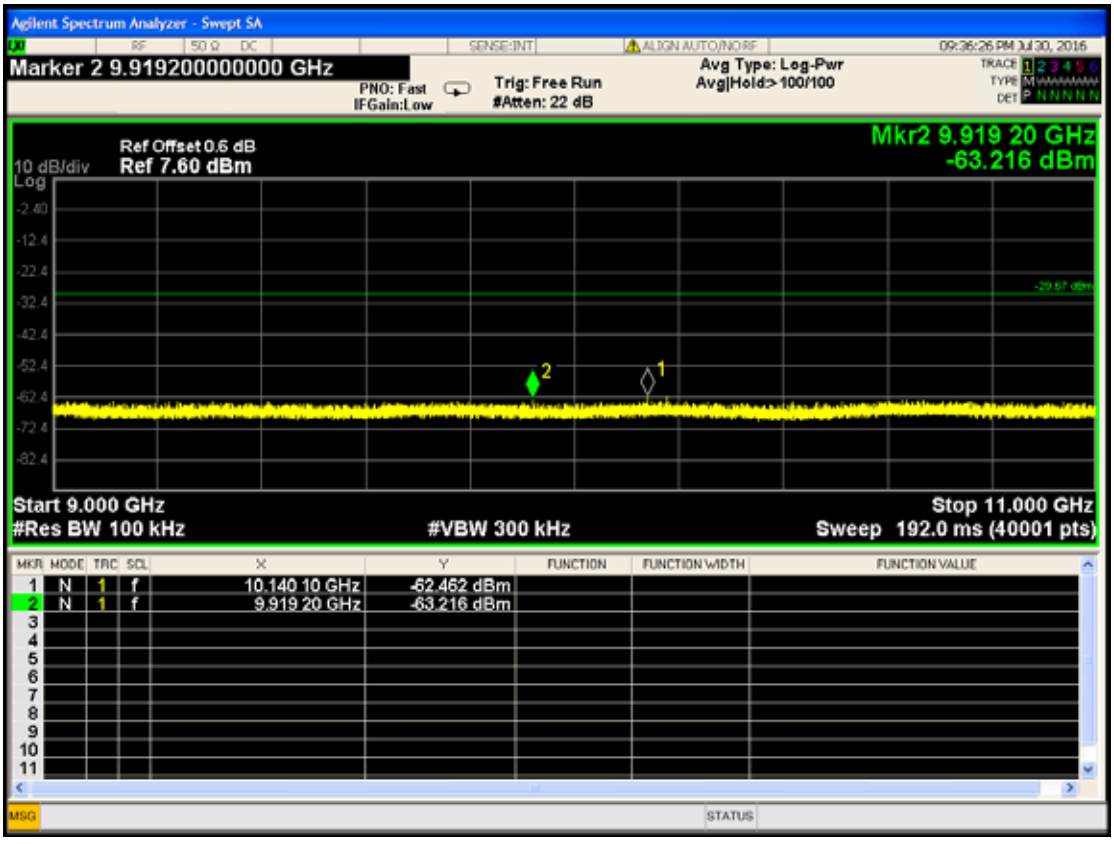

Agilent Spectrum Analyzer - Swept SA
Marker 2 169.292000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
09:22:05 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 7.60 dBm
Log
Mkr2 169.29 MHz
-69.274 dBm
-29.67 dBm
Start 30.0 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 1.0000 GHz
Sweep 93.33 ms (20001 pts)
1 N 1 f 959.84 MHz -64.005 dBm
2 N 1 f 169.29 MHz -69.274 dBm

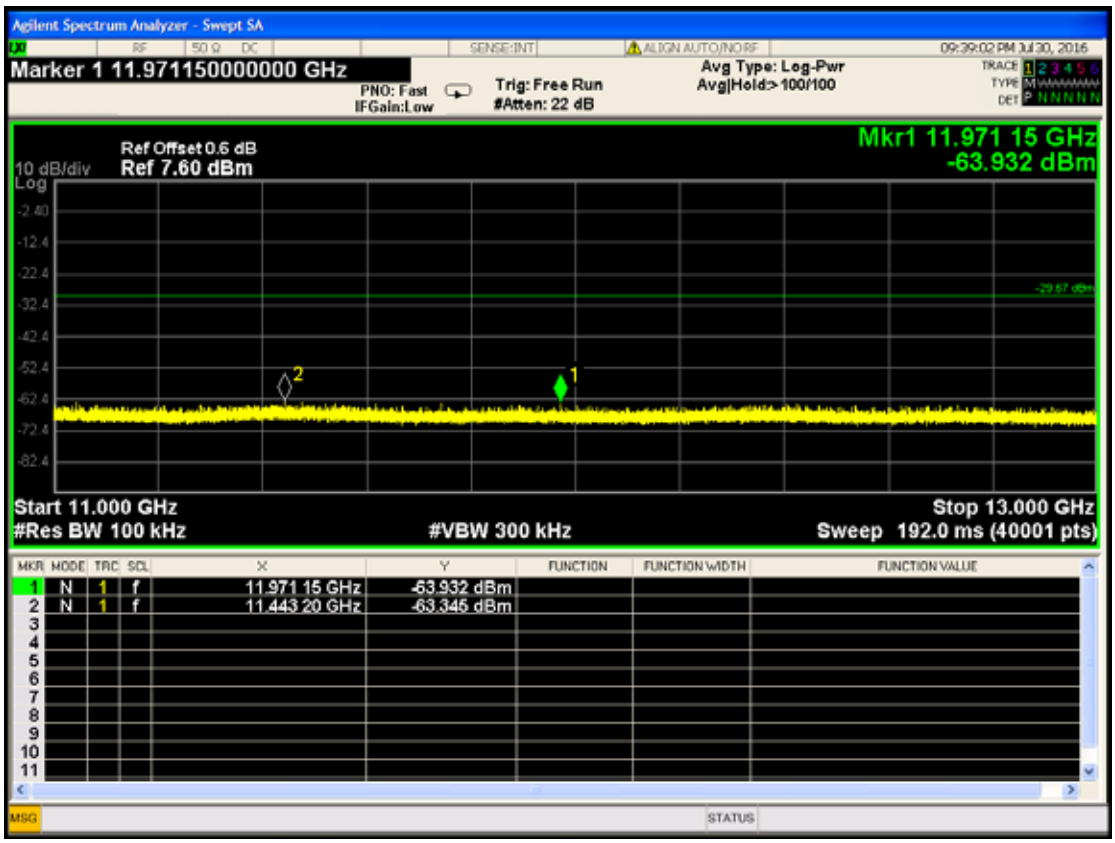

Agilent Spectrum Analyzer - Swept SA
Start Freq 1.000000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
09:14:19 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 10.60 dBm
Log
Mkr2 2.000 00 GHz
-68.521 dBm
-29.67 dBm
Start 1.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 3.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 2.479 85 GHz 0.332 dBm
2 N 1 f 2.000 00 GHz -68.521 dBm

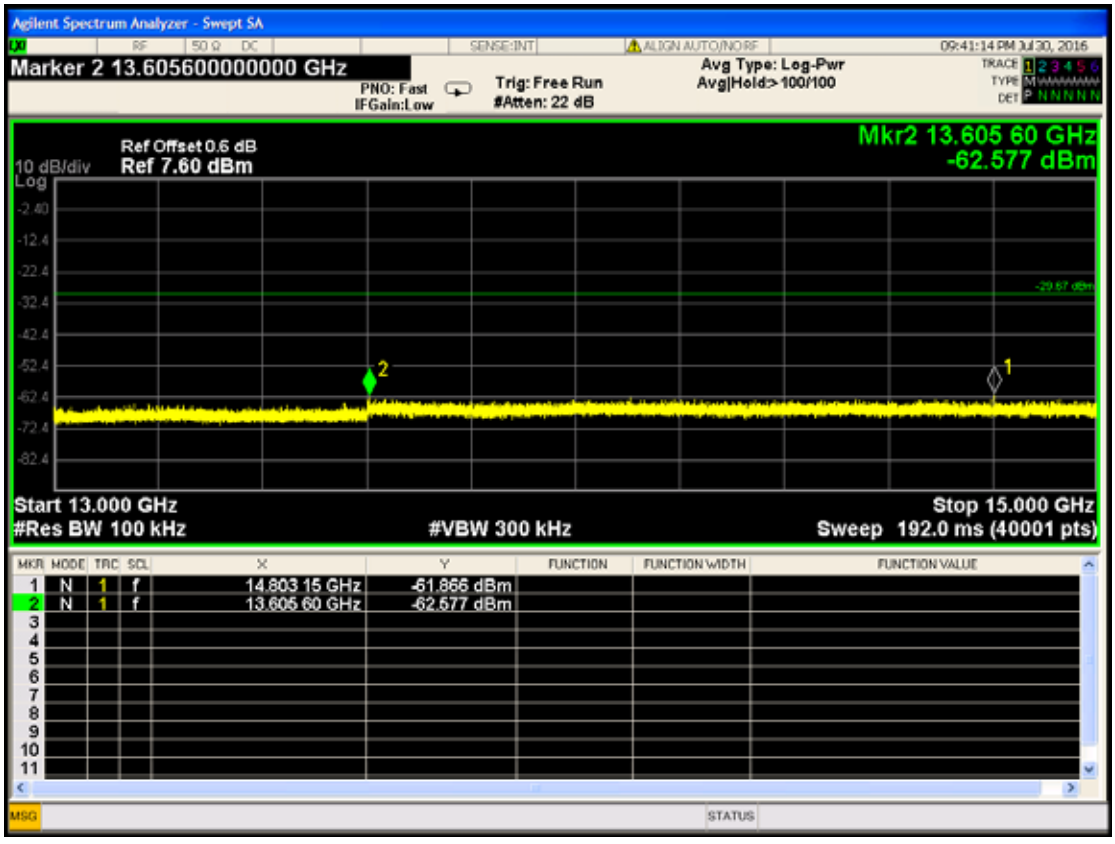

Agilent Spectrum Analyzer - Swept SA
Marker 2 3.832050000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
09:25:11 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 7.60 dBm
Log
Mkr2 3.832 05 GHz
-62.274 dBm
-29.67 dBm
Start 3.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 5.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 3.912 80 GHz -62.628 dBm
2 N 1 f 3.832 05 GHz -62.274 dBm

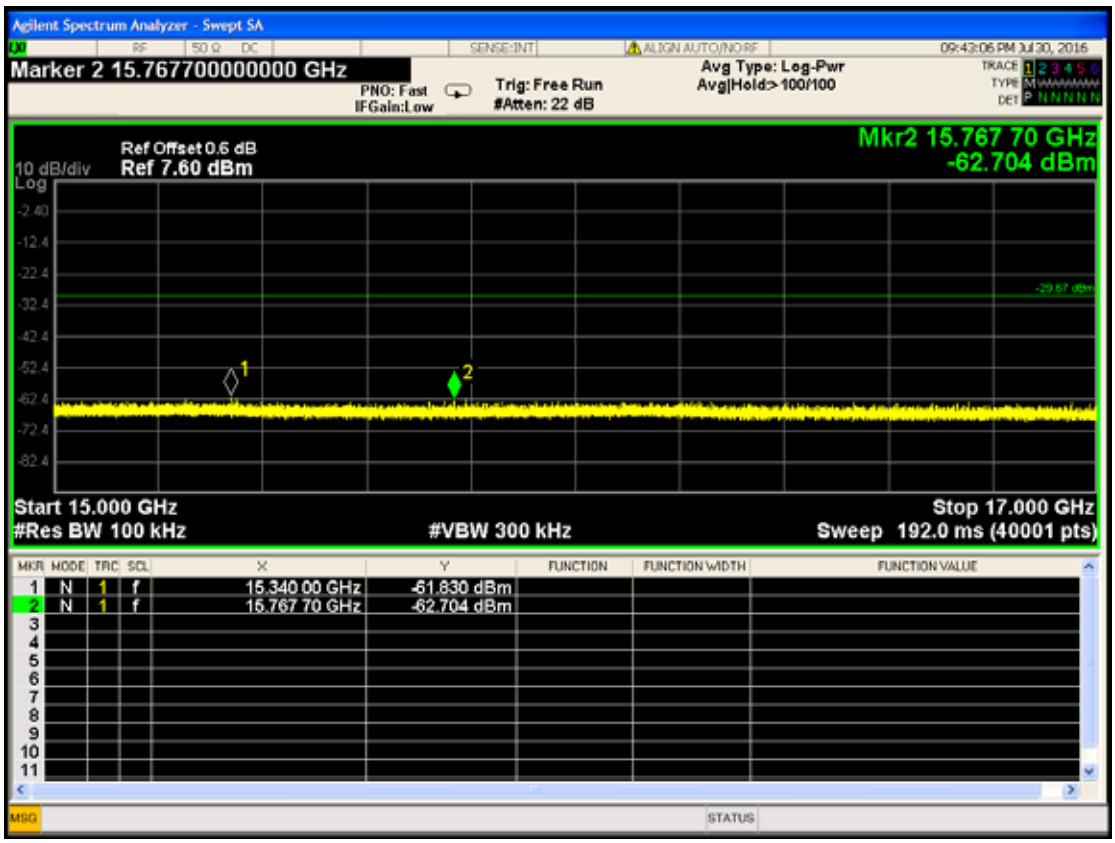

Agilent Spectrum Analyzer - Swept SA
Marker 2 5.582350000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
09:32:23 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 7.60 dBm
Log
Mkr2 5.582 35 GHz
-63.742 dBm
-29.67 dBm
Start 5.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 7.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 5.029 55 GHz -63.473 dBm
2 N 1 f 5.582 35 GHz -63.742 dBm

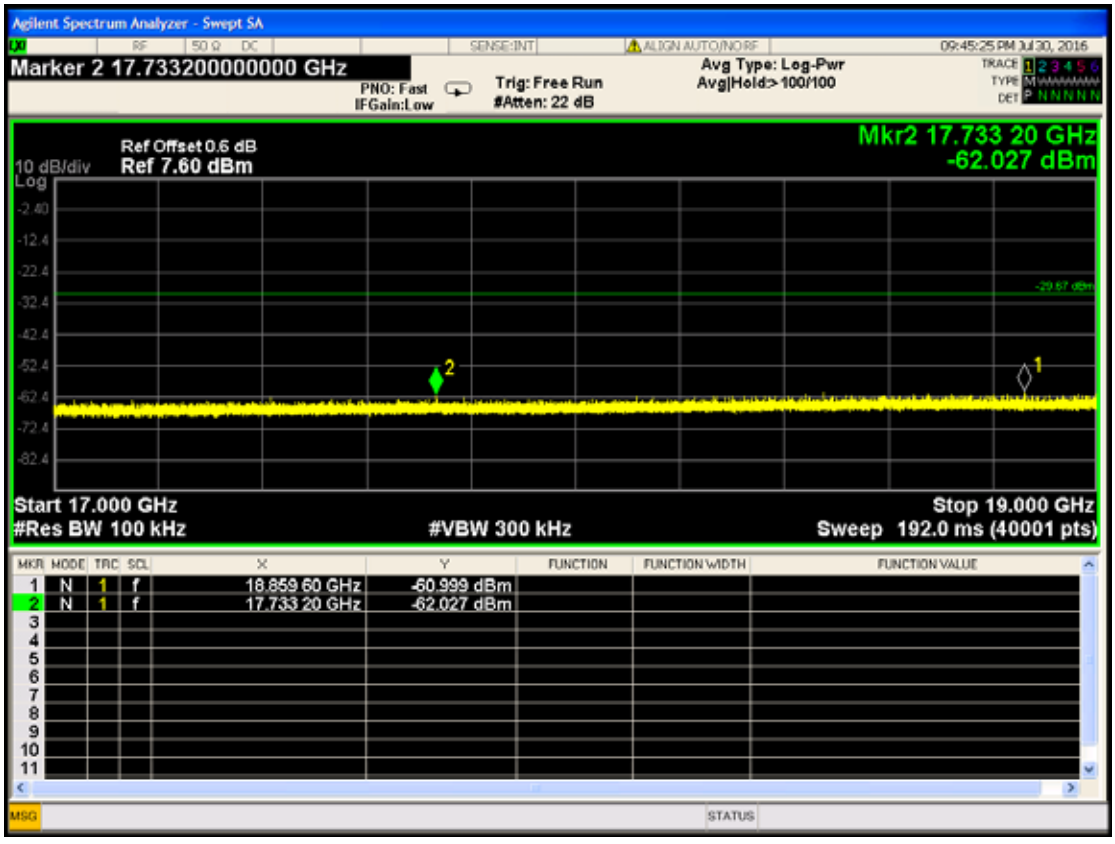

Agilent Spectrum Analyzer - Swept SA
Marker 2 7.743150000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
09:34:19 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Log
Ref 7.60 dBm
Mkr2 7.743 15 GHz
-64.007 dBm
Start 7.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 9.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 8.112 15 GHz -62.607 dBm
2 N 1 f 7.743 15 GHz -64.007 dBm

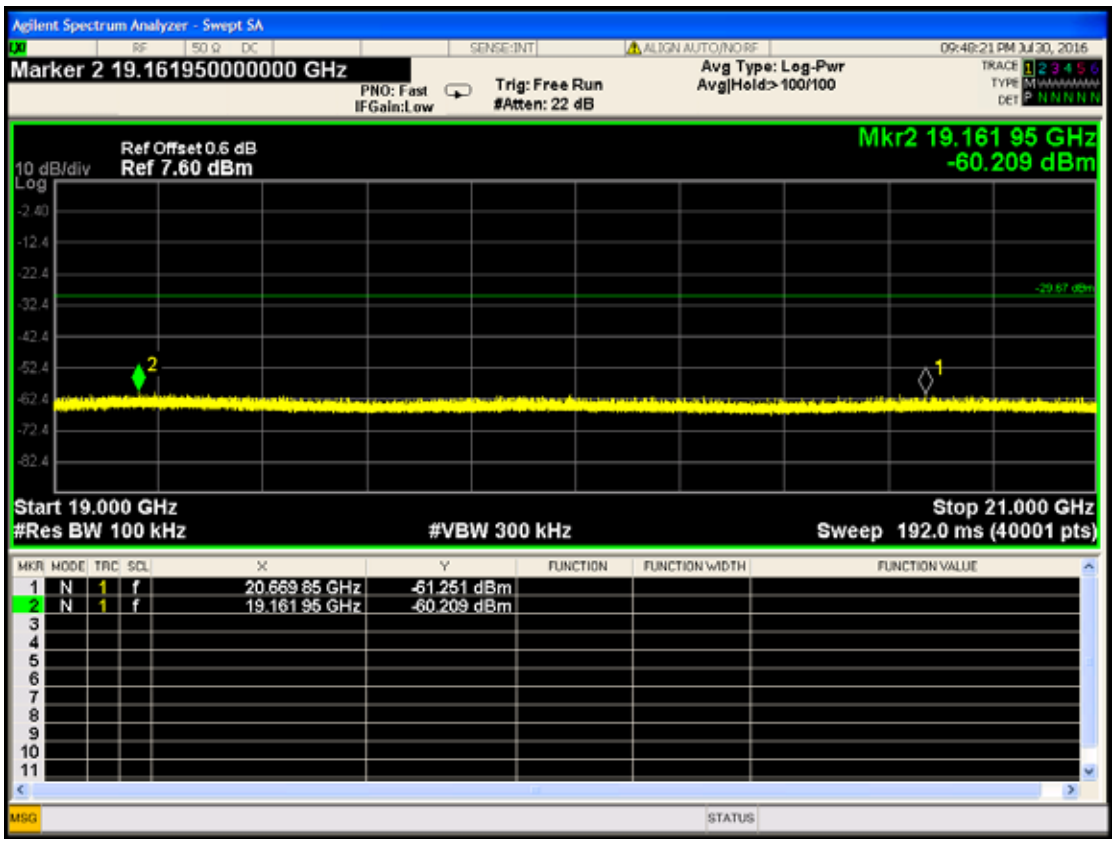

Agilent Spectrum Analyzer - Swept SA
Marker 2 9.919200000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
09:36:26 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Log
Ref 7.60 dBm
Mkr2 9.919 20 GHz
-63.216 dBm
Start 9.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 11.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 10.140 10 GHz -62.462 dBm
2 N 1 f 9.919 20 GHz -63.216 dBm

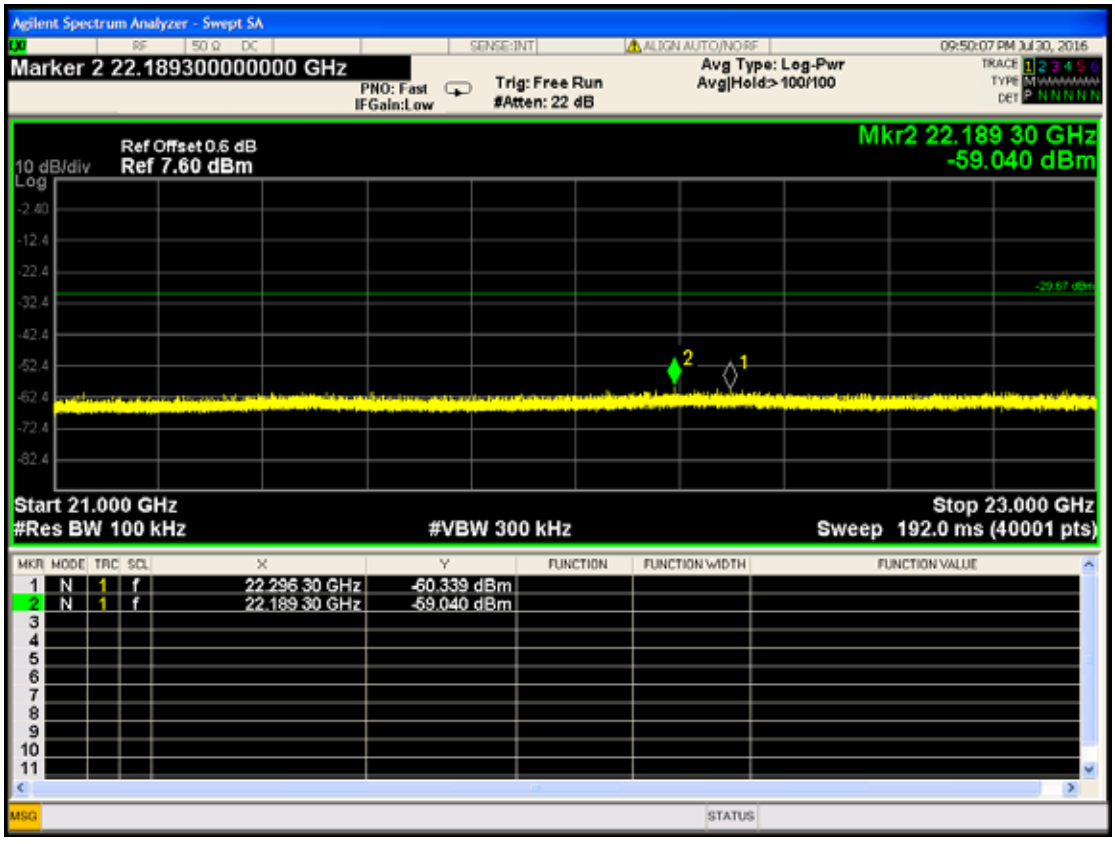

Agilent Spectrum Analyzer - Swept SA
Marker 1 11.971150000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
09:39:02 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Log
Ref 7.60 dBm
Mkr1 11.971 15 GHz
-63.932 dBm
Start 11.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 13.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 11.971 15 GHz -63.932 dBm
2 N 1 f 11.443 20 GHz -63.345 dBm

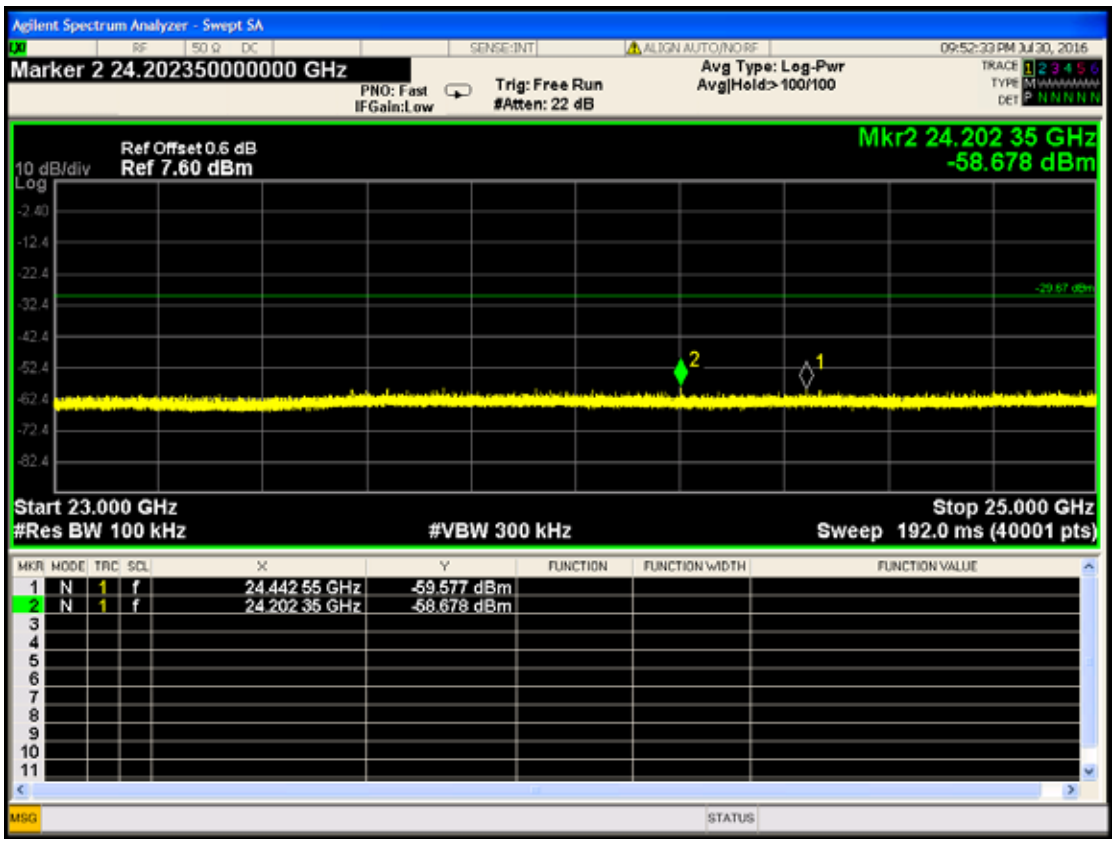

Agilent Spectrum Analyzer - Swept SA
Marker 2 13.605600000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
09:41:14 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Log
Ref 7.60 dBm
Mkr2 13.605 60 GHz
-62.577 dBm
Start 13.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 15.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 14.803 15 GHz -61.866 dBm
2 N 1 f 13.605 60 GHz -62.577 dBm


Agilent Spectrum Analyzer - Swept SA
Marker 2 15.767700000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
09:43:06 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 7.60 dBm
Log
Mkr2 15.767 70 GHz
-62.704 dBm
Start 15.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 17.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 15.340 00 GHz -61.830 dBm
2 N 1 f 15.767 70 GHz -62.704 dBm


Agilent Spectrum Analyzer - Swept SA
Marker 2 17.733200000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
09:45:25 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 7.60 dBm
Log
Mkr2 17.733 20 GHz
-62.027 dBm
Start 17.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 19.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 18.859 60 GHz -60.999 dBm
2 N 1 f 17.733 20 GHz -62.027 dBm


Agilent Spectrum Analyzer - Swept SA
Marker 2 19.161950000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
09:49:21 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 7.60 dBm
Log
Mkr2 19.161 95 GHz
-60.209 dBm
Start 19.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 21.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 20.669 85 GHz -61.251 dBm
2 N 1 f 19.161 95 GHz -60.209 dBm


Agilent Spectrum Analyzer - Swept SA
Marker 2 22.189300000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
09:50:07 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 7.60 dBm
Log
Mkr2 22.189 30 GHz
-59.040 dBm
Start 21.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 23.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 22.296 30 GHz -60.339 dBm
2 N 1 f 22.189 30 GHz -59.040 dBm


Agilent Spectrum Analyzer - Swept SA
Marker 2 24.202350000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 22 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
09:52:39 PM Jul 30, 2016
Ref Offset 0.6 dB
10 dB/div
Ref 7.60 dBm
Log
Mkr2 24.202 35 GHz
-58.678 dBm
Start 23.000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.000 GHz
Sweep 192.0 ms (40001 pts)
1 N 1 f 24.442 55 GHz -59.577 dBm
2 N 1 f 24.202 35 GHz -58.678 dBm

10. DUTY CYCLE

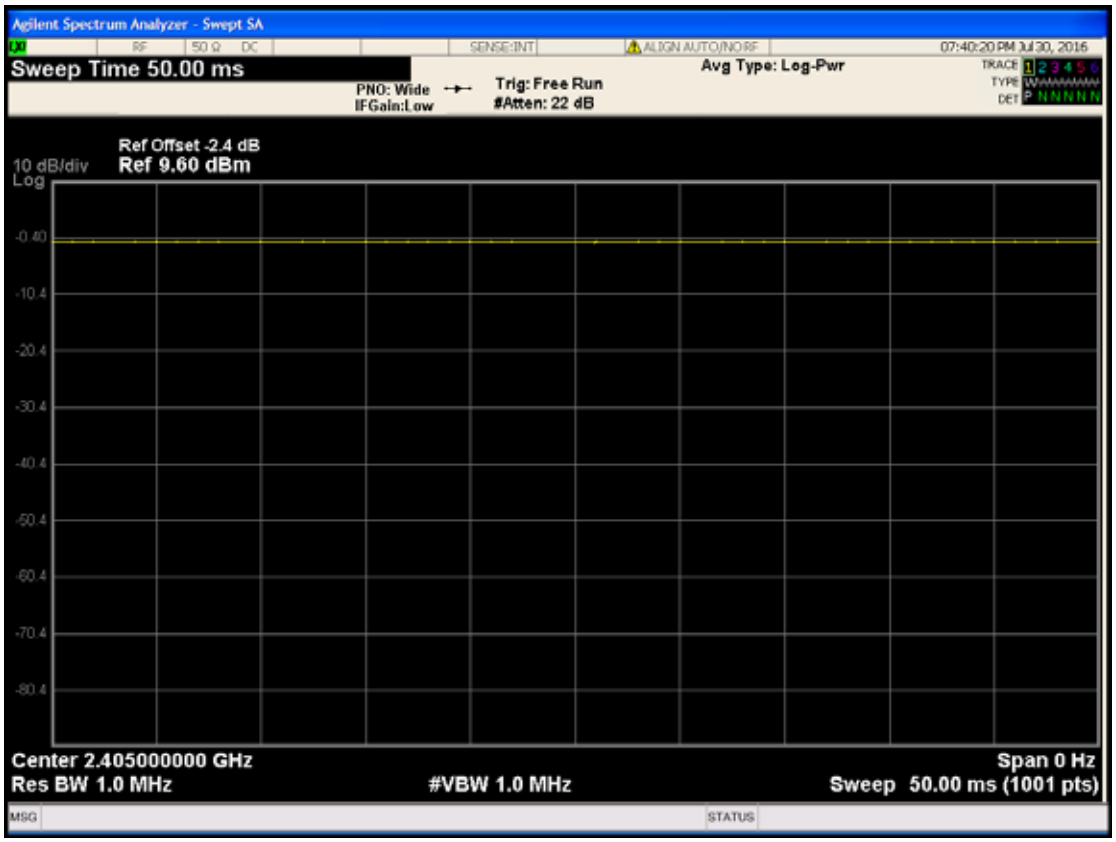
10.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	PXA Signal Analyzer	Agilent	N9030A	MY53120367	2016-05-15	2017-05-14

10.2. Test Results

The measurement of duty cycle is 100%.

CH 20



11. DEVIATION TO TEST SPECIFICATIONS

【NONE】