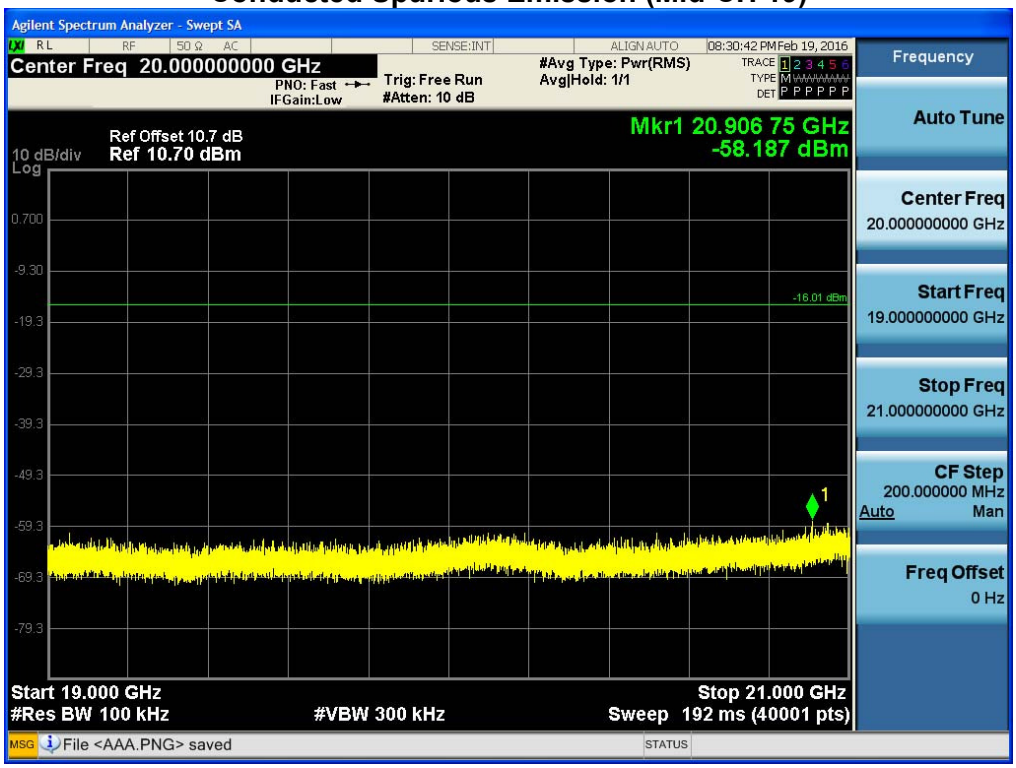
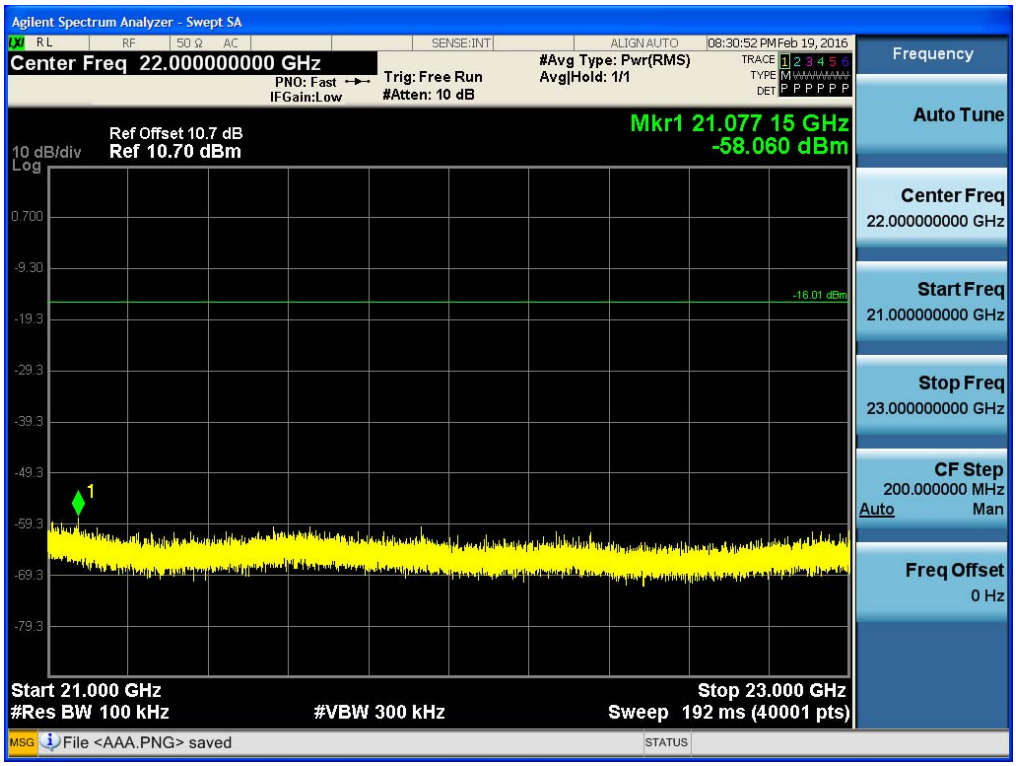
19 GHz ~ 21 GHz

Conducted Spurious Emission (Mid-CH 19)



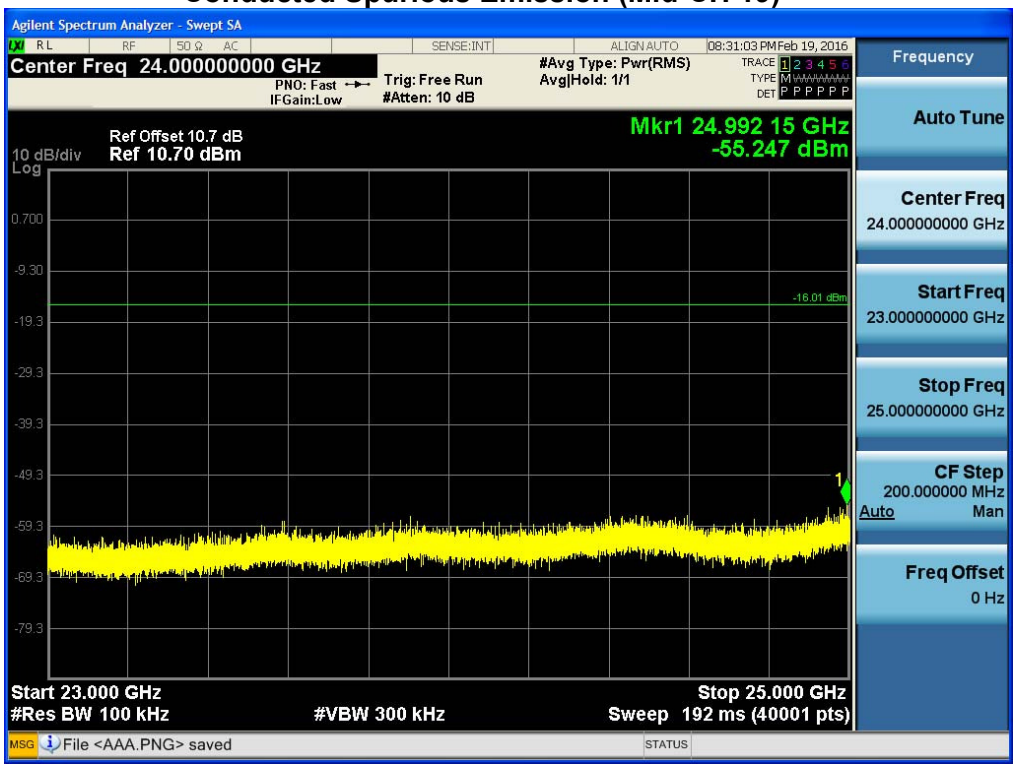
21 GHz ~ 23 GHz

Conducted Spurious Emission (Mid-CH 19)



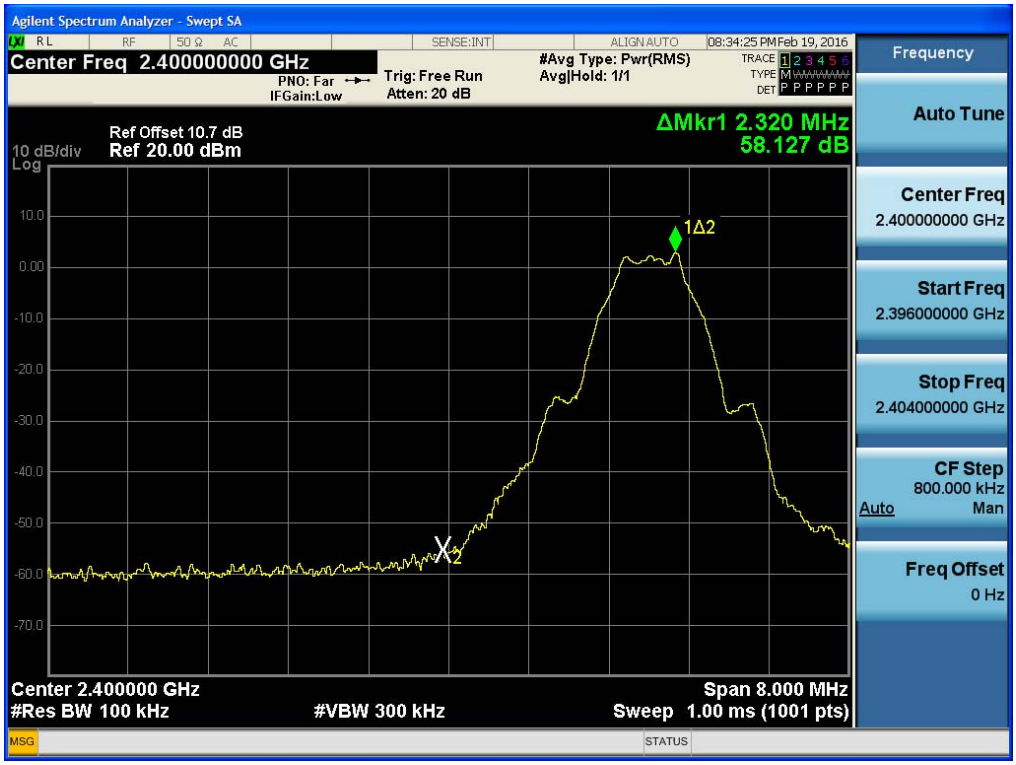
23 GHz ~ 25 GHz

Conducted Spurious Emission (Mid-CH 19)

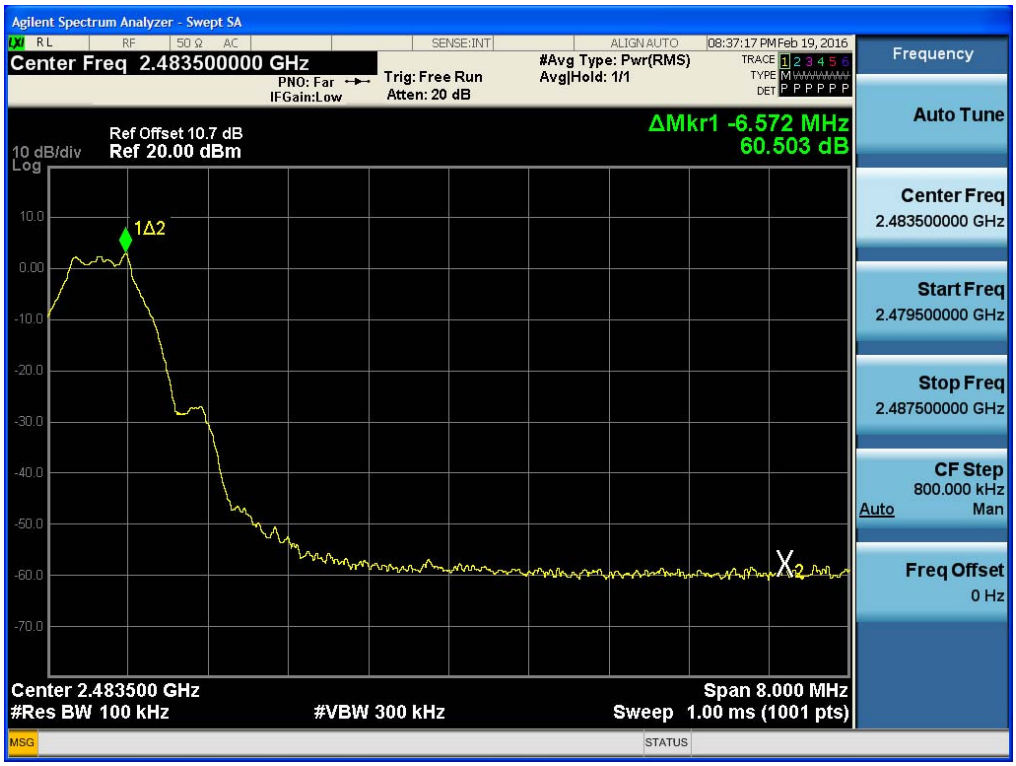


▣ RESULT PLOTS_Max

BandEdge (Low-CH 0)

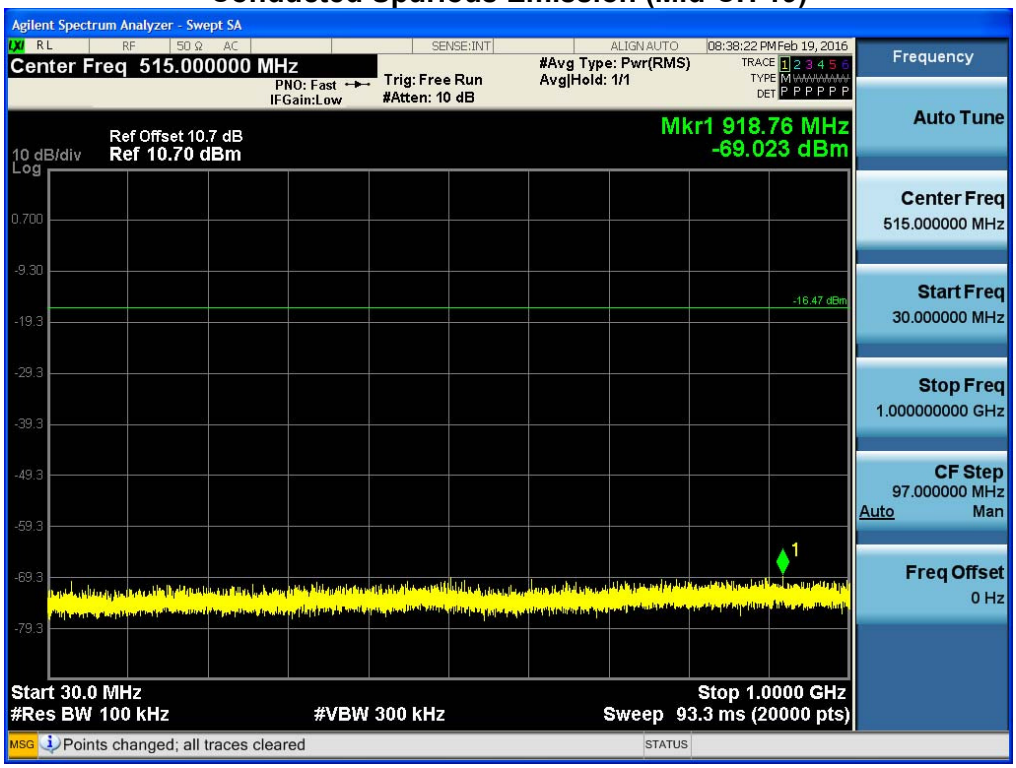


BandEdge (High-CH 39)



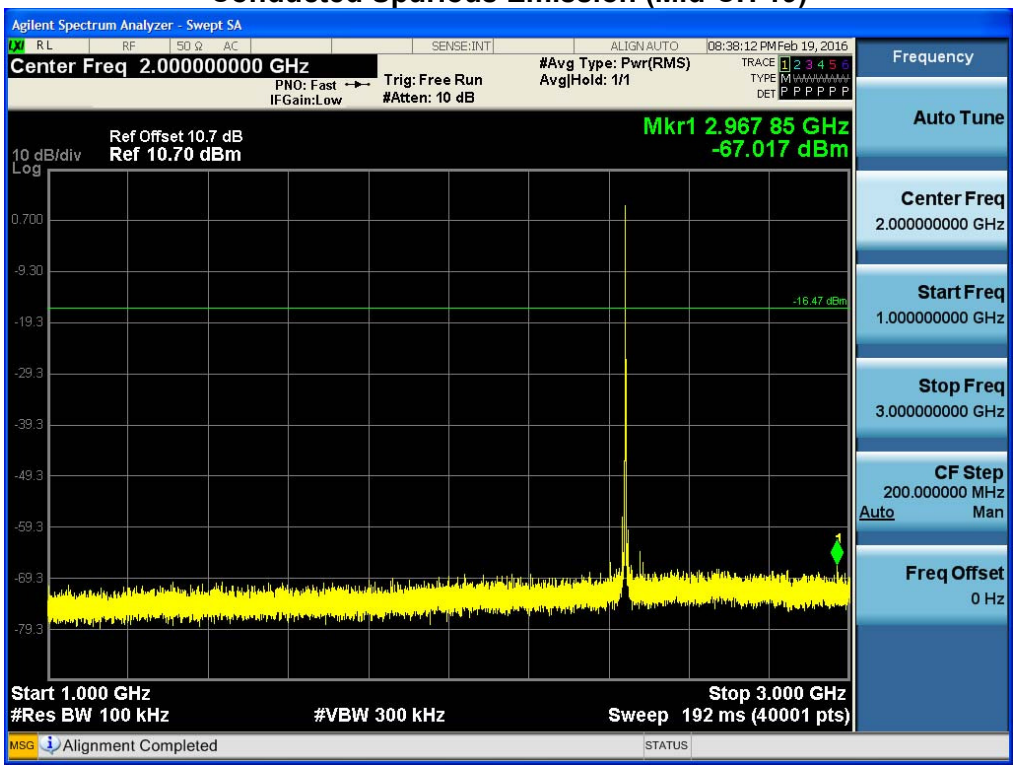
30 MHz ~ 1 GHz

Conducted Spurious Emission (Mid-CH 19)



1 GHz ~ 3 GHz

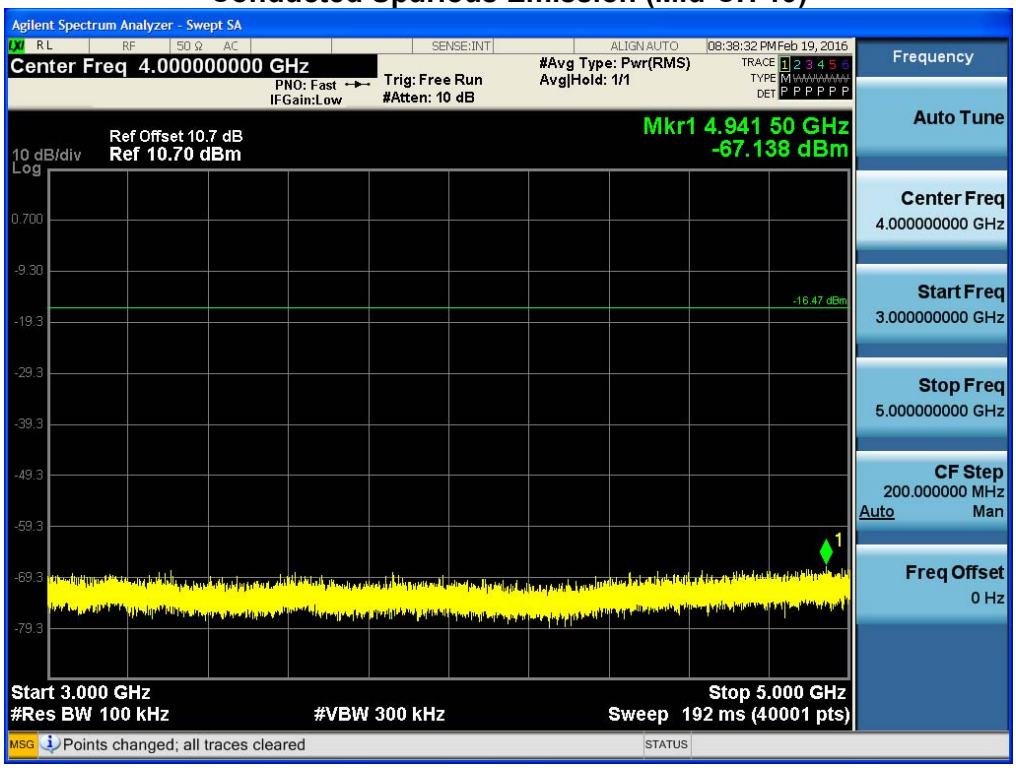
Conducted Spurious Emission (Mid-CH 19)



Note : Fundamental maximum level(average mode) is 3.53 dBm. Limit line is 20 dBc down from the fundamental. So, limit is -16.47 dBm.

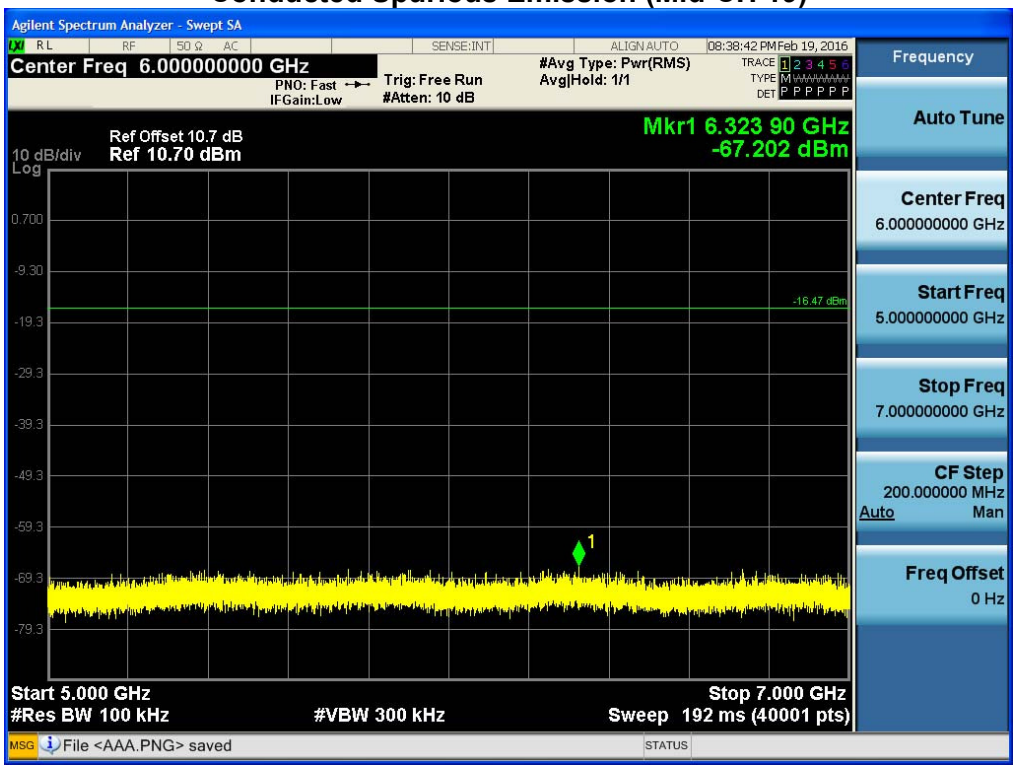
3 GHz ~ 5 GHz

Conducted Spurious Emission (Mid-CH 19)



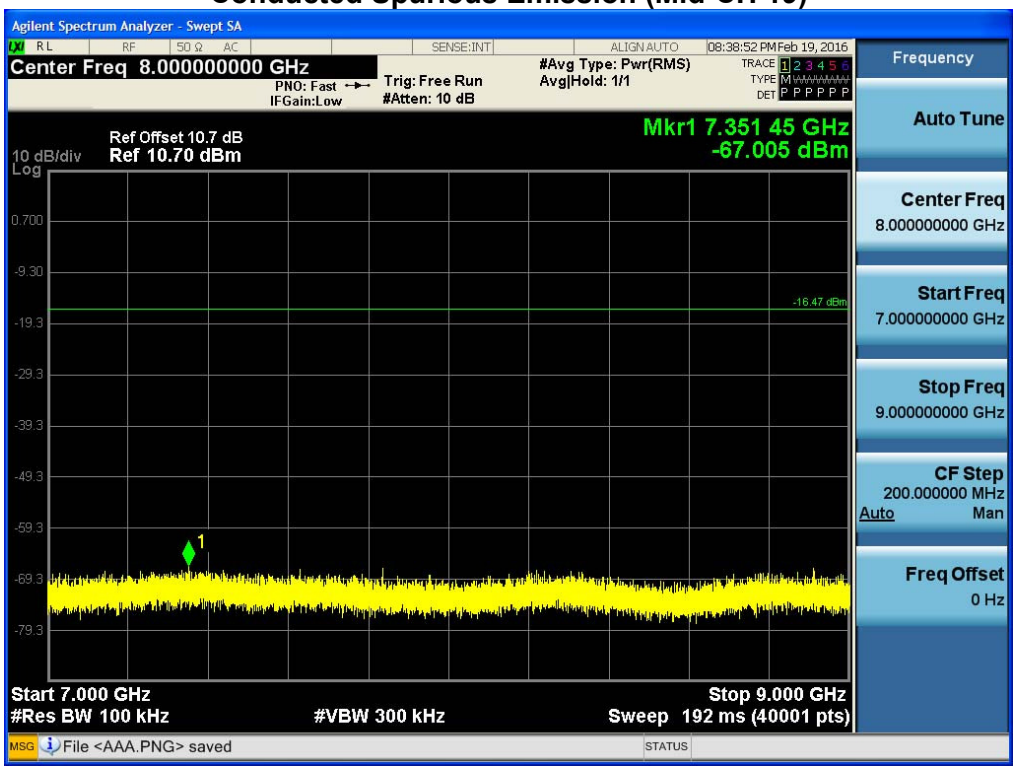
5 GHz ~ 7 GHz

Conducted Spurious Emission (Mid-CH 19)



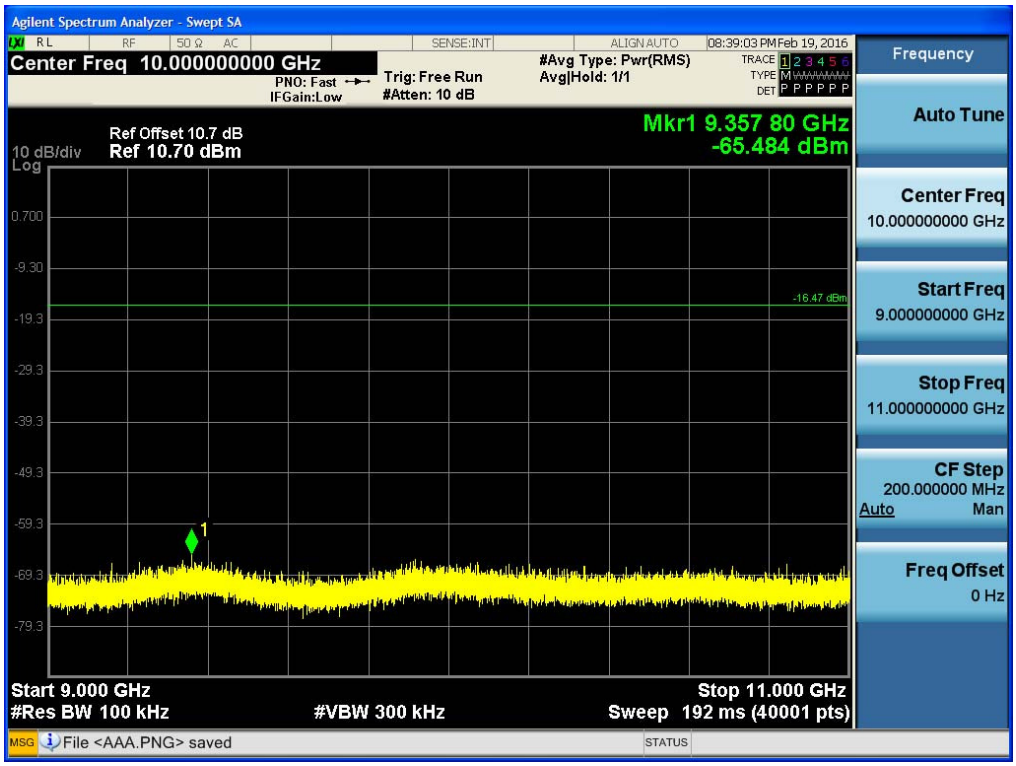
7 GHz ~ 9 GHz

Conducted Spurious Emission (Mid-CH 19)



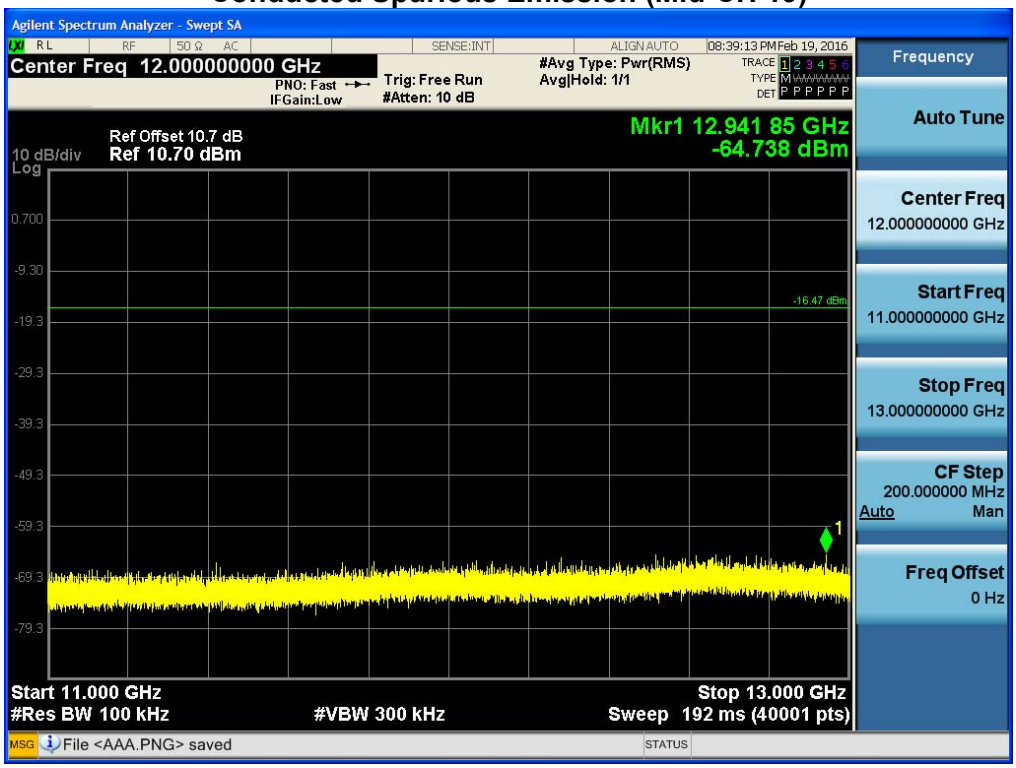
9 GHz ~ 11 GHz

Conducted Spurious Emission (Mid-CH 19)



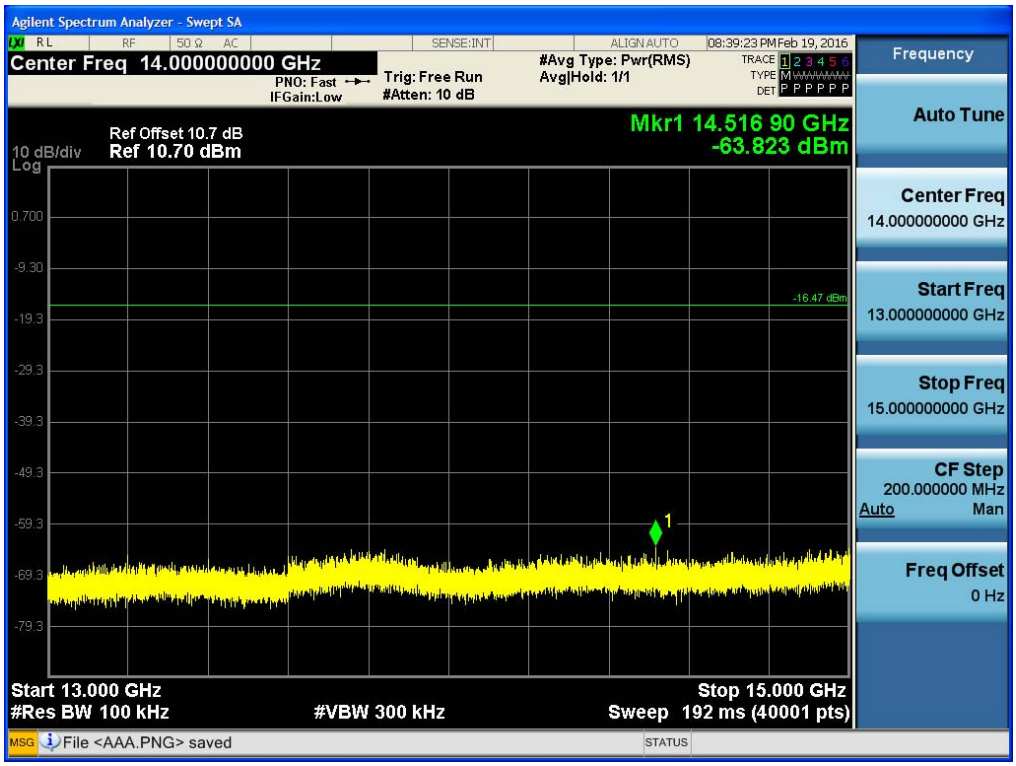
11 GHz ~ 13 GHz

Conducted Spurious Emission (Mid-CH 19)



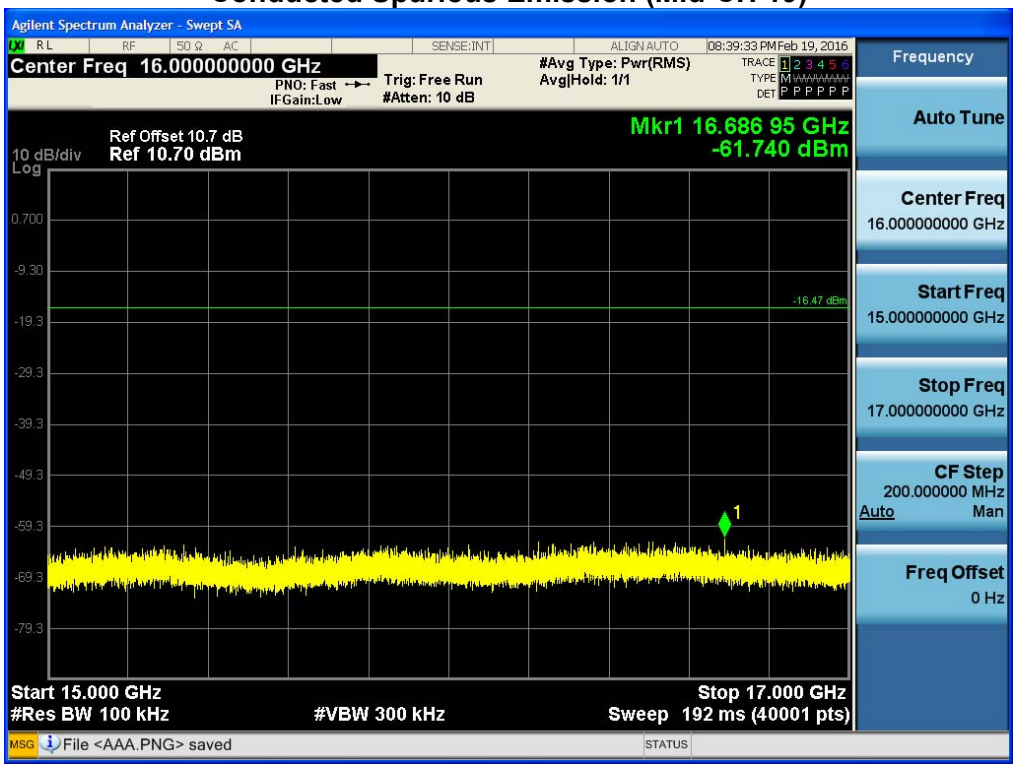
13 GHz ~ 15 GHz

Conducted Spurious Emission (Mid-CH 19)



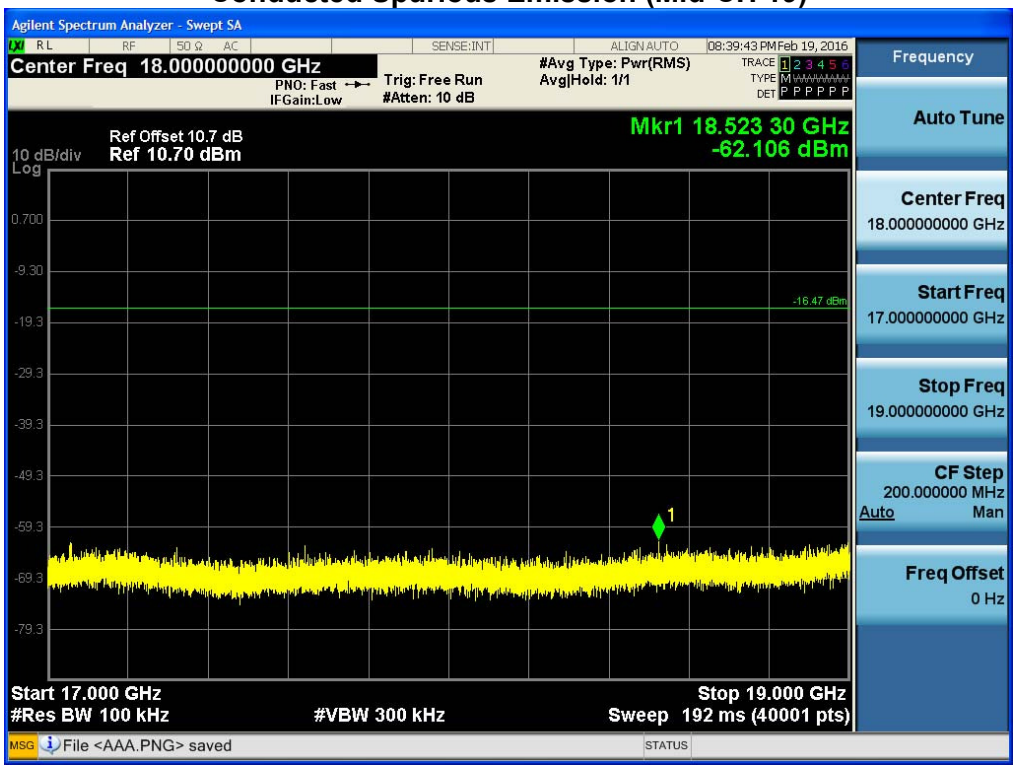
15 GHz ~ 17 GHz

Conducted Spurious Emission (Mid-CH 19)



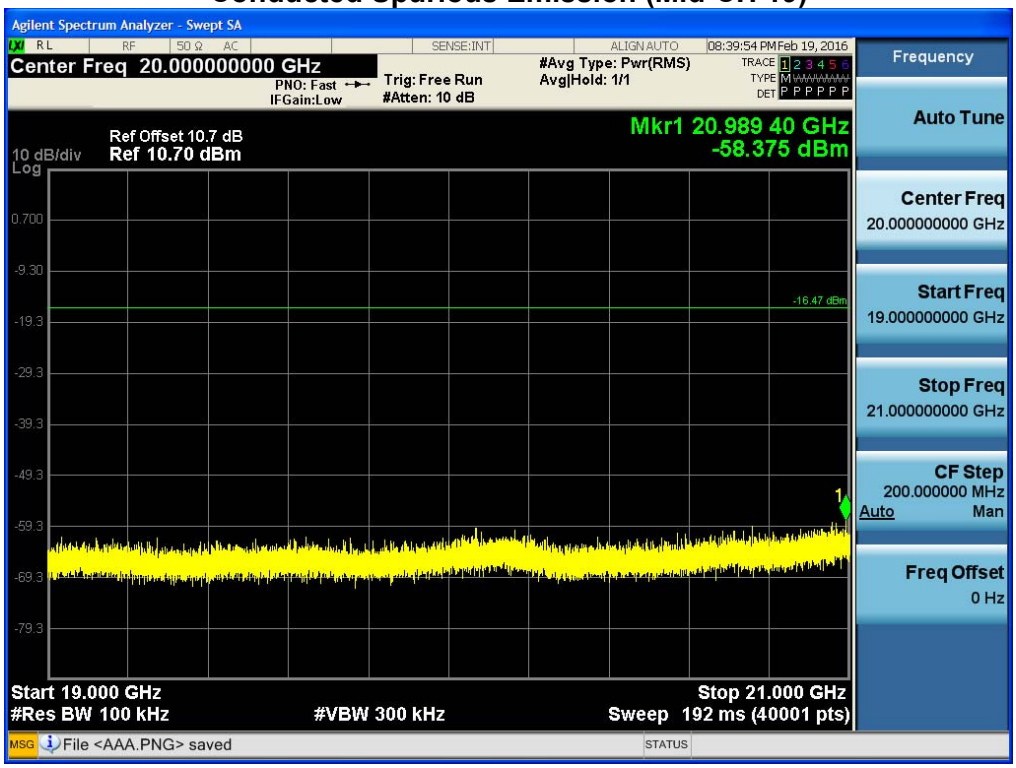
17 GHz ~ 19 GHz

Conducted Spurious Emission (Mid-CH 19)



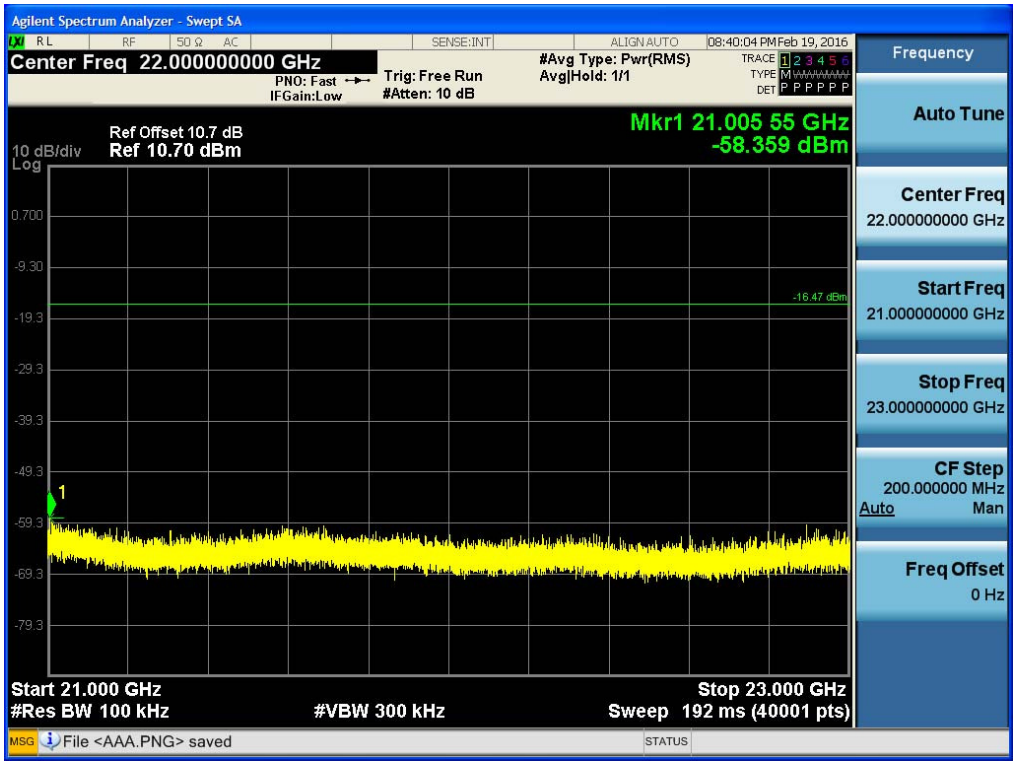
19 GHz ~ 21 GHz

Conducted Spurious Emission (Mid-CH 19)



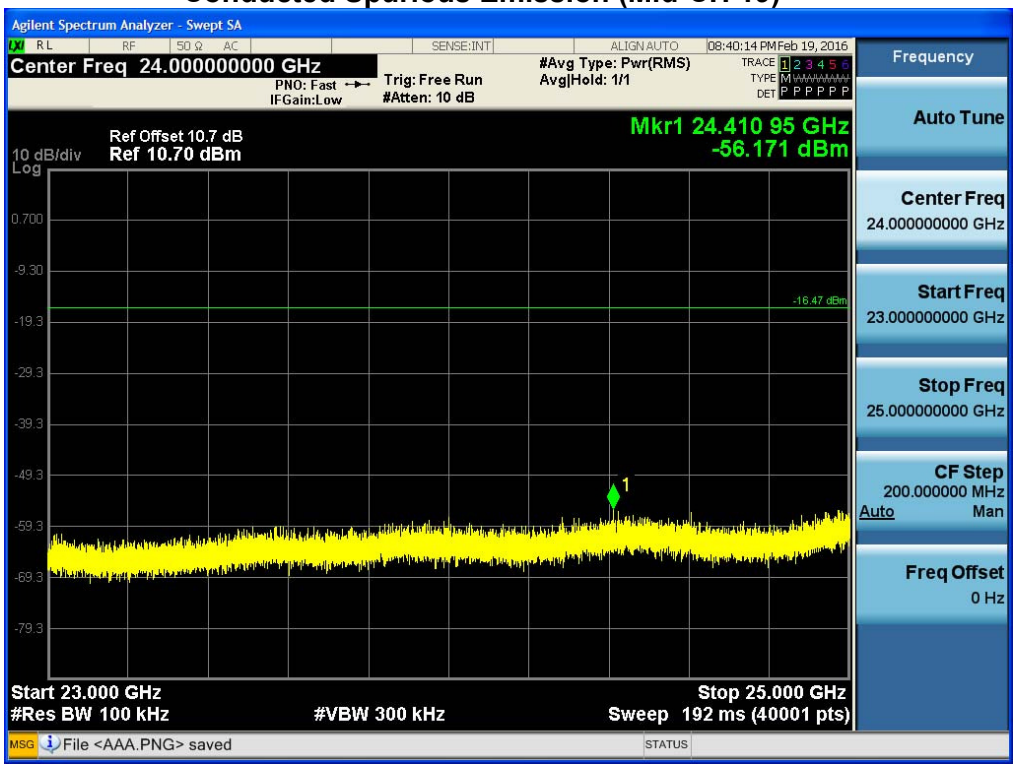
21 GHz ~ 23 GHz

Conducted Spurious Emission (Mid-CH 19)



23 GHz ~ 25 GHz

Conducted Spurious Emission (Mid-CH 19)



8.6 RADIATED MEASUREMENT.

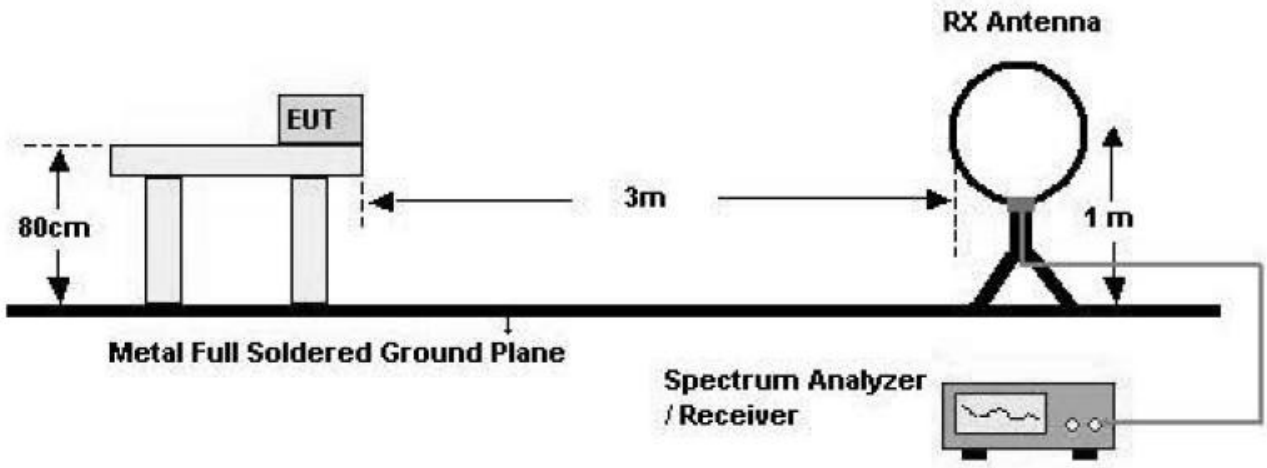
8.6.1 RADIATED SPURIOUS EMISSIONS.

Test Requirements and limit, §15.205, §15.209

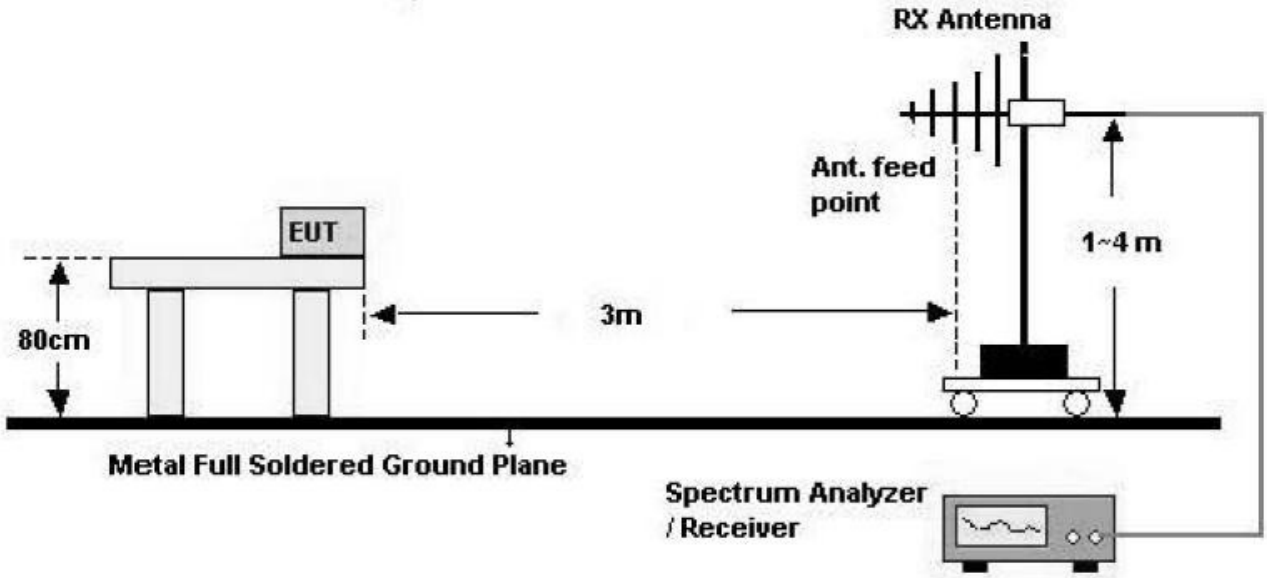
Frequency (MHz)	Field Strength (uV/m)	Measurement Distance (m)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Test Configuration

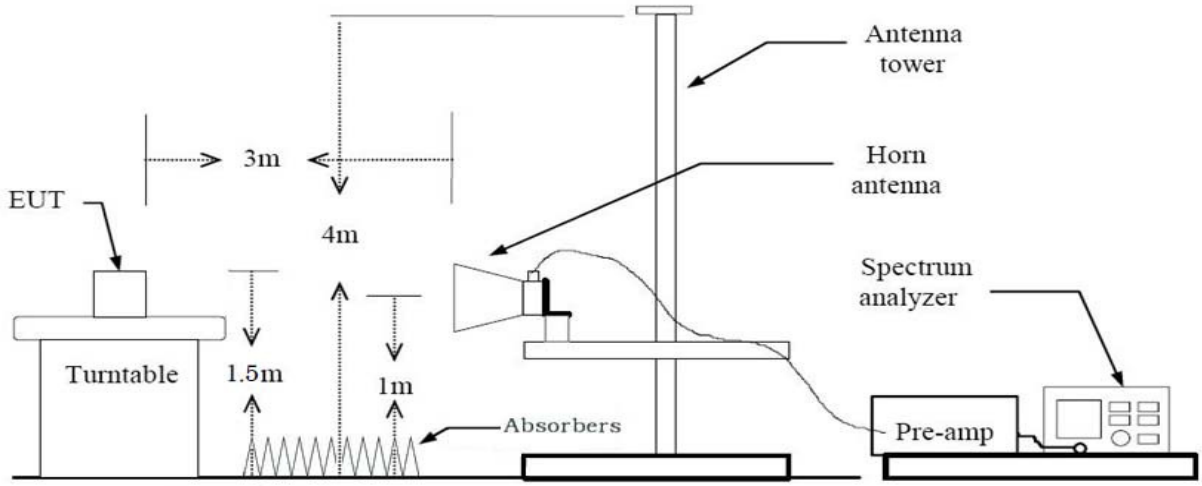
Below 30 MHz



30 MHz - 1 GHz



Above 1 GHz



TEST PROCEDURE USED

Method 12.1 in KDB 558074, issued 01/07/2016

Spectrum Setting

- Peak

Peak emission levels are measured by setting the instrument as follows:

RBW = cf. Table 1.

VBW ≥ 3 x RBW.

Detector = Peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweeps to continue until the trace stabilizes.

(Note that the required measurement time may be longer for low duty cycle applications).

Table 1 —RBW as a function of frequency

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

.

- Average (duty cycle < 98%, duty cycle variations are less than ±2%)

Set RBW = 1 MHz

Set VBW ≥ 3 x RBW

Detector = RMS.

Averaging type = power (*i.e.*, RMS).

Sweep time = auto.

Trace mode = average (at least 100 traces).

A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle.

TEST RESULTS

9 kHz – 30MHz

Operation Mode: Normal Mode

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dBμV/m	dBm /m	dBm	(H/V)	dBμV/m	dBμV/m	dB
No Critical peaks found							

Notes:

1. Measuring frequencies from 9 kHz to the 30MHz.
2. The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
3. Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
4. Limit line = specific Limits (dBuV) + Distance extrapolation factor
5. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

TEST RESULTS

Below 1 GHz

Operation Mode: Normal Mode

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dBμV/m	dBm /m	dBm	(H/V)	dBμV/m	dBμV/m	dB
No Critical peaks found							

Notes:

1. Measuring frequencies from 30 MHz to the 1 GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Above 1 GHz

Operation Mode: CH Low(LE Mode)_Min

Frequency [MHz]	Reading [dBuV/m]	A.F.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4804	49.41	-2.96	V	46.45	73.98	27.53	PK
4804	37.33	-2.96	V	34.37	53.98	19.61	AV
7206	46.45	6.88	V	53.33	73.98	20.65	PK
7206	33.65	6.88	V	40.53	53.98	13.45	AV
4804	49.32	-2.96	H	46.36	73.98	27.62	PK
4804	37.24	-2.96	H	34.28	53.98	19.70	AV
7206	46.18	6.88	H	53.06	73.98	20.92	PK
7206	33.39	6.88	H	40.27	53.98	13.71	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. The Reading values are already added value of the duty cycle factor.
5. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Operation Mode: CH Low(LE Mode)_Max

Frequency [MHz]	Reading [dBuV/m]	A.F.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4804	49.35	-2.96	V	46.39	73.98	27.59	PK
4804	37.23	-2.96	V	34.27	53.98	19.71	AV
7206	50.15	6.88	V	57.03	73.98	16.95	PK
7206	37.97	6.88	V	44.85	53.98	9.13	AV
9608	49.68	9.15	V	58.83	73.98	15.15	PK
9608	37.93	9.15	V	47.08	53.98	6.90	AV
4804	49.26	-2.96	H	46.3	73.98	27.68	PK
4804	37.19	-2.96	H	34.23	53.98	19.75	AV
7206	49.97	6.88	H	56.85	73.98	17.13	PK
7206	37.84	6.88	H	44.72	53.98	9.26	AV
9608	49.53	9.15	H	58.68	73.98	15.30	PK
9608	37.80	9.15	H	46.95	53.98	7.03	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. The Reading values are already added value of the duty cycle factor.
5. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Operation Mode: CH Mid(LE Mode)_Min

Frequency [MHz]	Reading [dBuV/m]	A.F.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4882	50.25	-2.60	V	47.65	73.98	26.33	PK
4882	38.12	-2.60	V	35.52	53.98	18.46	AV
7323	46.42	6.11	V	52.53	73.98	21.45	PK
7323	34.27	6.11	V	40.38	53.98	13.60	AV
4882	50.11	-2.60	H	47.51	73.98	26.47	PK
4882	38.05	-2.60	H	35.45	53.98	18.53	AV
7323	46.29	6.11	H	52.4	73.98	21.58	PK
7323	34.15	6.11	H	40.26	53.98	13.72	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. The Reading values are already added value of the duty cycle factor.
5. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Operation Mode: CH Mid(LE Mode)_Max

Frequency [MHz]	Reading [dBuV/m]	A.F.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4882	49.35	-2.60	V	46.75	73.98	27.23	PK
4882	37.23	-2.60	V	34.63	53.98	19.35	AV
7323	50.15	6.11	V	56.26	73.98	17.72	PK
7323	37.97	6.11	V	44.08	53.98	9.90	AV
9764	49.68	8.84	V	58.52	73.98	15.46	PK
9764	37.93	8.84	V	46.77	53.98	7.21	AV
4882	49.26	-2.60	H	46.66	73.98	27.32	PK
4882	37.19	-2.60	H	34.59	53.98	19.39	AV
7323	49.97	6.11	H	56.08	73.98	17.90	PK
7323	37.84	6.11	H	43.95	53.98	10.03	AV
9764	49.53	8.84	H	58.37	73.98	15.61	PK
9764	37.80	8.84	H	46.64	53.98	7.34	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. The Reading values are already added value of the duty cycle factor.
5. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Operation Mode: CH High(LE Mode)_Min

Frequency [MHz]	Reading [dBuV/m]	A.F.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4960	49.78	-2.53	V	47.25	73.98	26.73	PK
4960	38.08	-2.53	V	35.55	53.98	18.43	AV
7440	46.28	5.73	V	52.01	73.98	21.97	PK
7440	32.70	5.73	V	38.43	53.98	15.55	AV
4960	49.67	-2.53	H	47.14	73.98	26.84	PK
4960	38.01	-2.53	H	35.48	53.98	18.50	AV
7440	46.19	5.73	H	51.92	73.98	22.06	PK
7440	33.62	5.73	H	39.35	53.98	14.63	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. The Reading values are already added value of the duty cycle factor.
5. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

Operation Mode: CH High(LE Mode)_Max

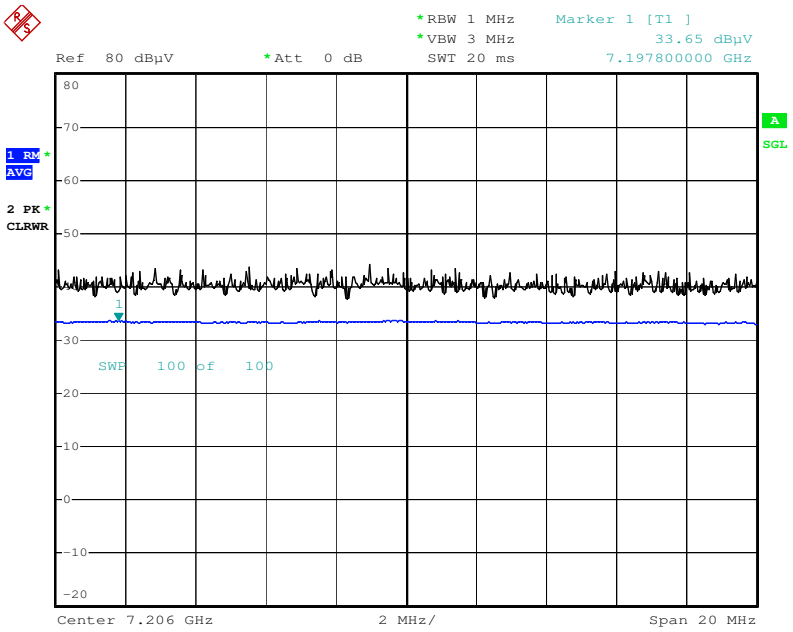
Frequency [MHz]	Reading [dBuV/m]	A.F.+CL-AMP G [dBm]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4960	49.35	-2.53	V	46.82	73.98	27.16	PK
4960	37.23	-2.53	V	34.70	53.98	19.28	AV
7440	50.15	5.73	V	55.88	73.98	18.10	PK
7440	37.97	5.73	V	43.7	53.98	10.28	AV
9920	49.68	9.11	V	58.79	73.98	15.19	PK
9920	37.93	9.11	V	47.04	53.98	6.94	AV
4960	49.26	-2.53	H	46.73	73.98	27.25	PK
4960	37.19	-2.53	H	34.66	53.98	19.32	AV
7440	49.97	5.73	H	55.7	73.98	18.28	PK
7440	37.84	5.73	H	43.57	53.98	10.41	AV
9920	49.53	9.11	H	58.64	73.98	15.34	PK
9920	37.80	9.11	H	46.91	53.98	7.07	AV

Notes:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
4. The Reading values are already added value of the duty cycle factor.
5. Total = Reading Value + Antenna Factor + Cable Loss - Amp Gain
6. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

▣ RESULT PLOTS_Min (Worst case: x-V)

Radiated Spurious Emissions plot – Average Reading (LE, Ch. Low 3rd Harmonic)



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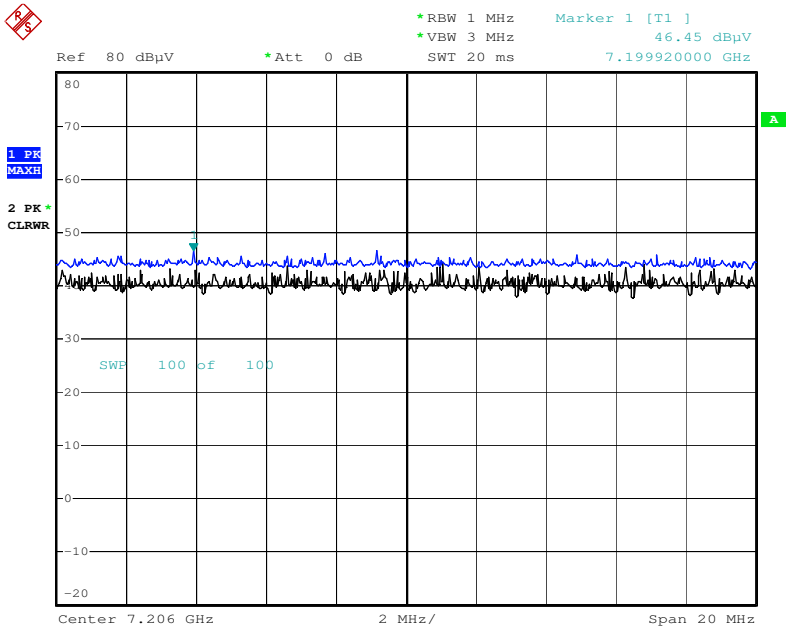
Radiated Spurious Emissions plot – Peak Reading (LE, Ch. Low 3rd Harmonic)



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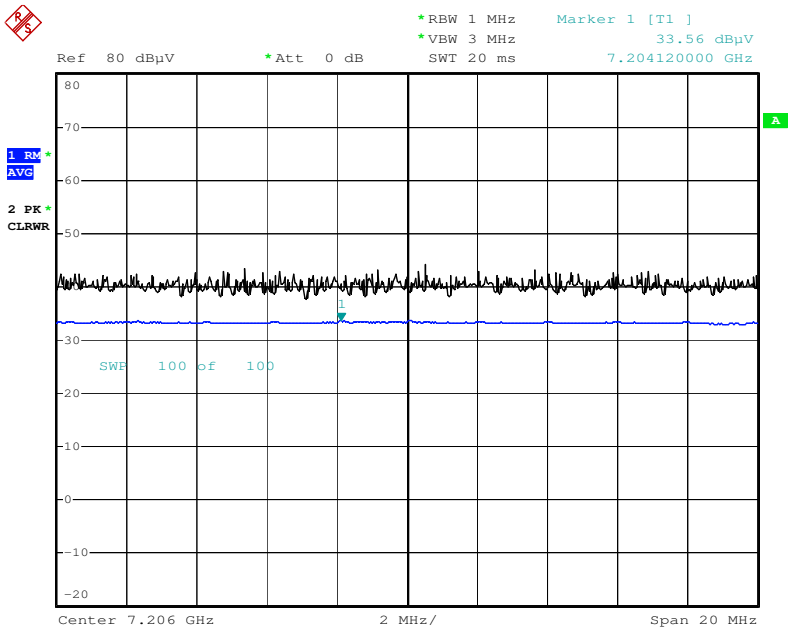
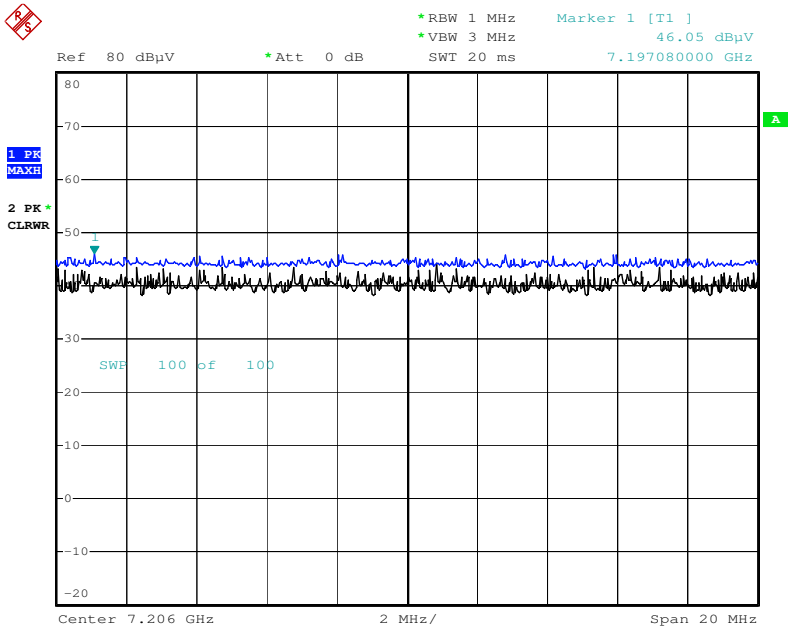
▣ RESULT PLOTS_Max (Worst case: x-V)

Radiated Spurious Emissions plot – Average Reading (LE, Ch. Low 3rd Harmonic)



Date: 19.FEB.2016 09:36:15

Radiated Spurious Emissions plot – Peak Reading (LE, Ch. Low 3rd Harmonic)



Date: 19.FEB.2016 09:35:57

Note : Only the worst case plots for Radiated Spurious Emissions.

8.6.2 RADIATED RESTRICTED BAND EDGES

Test Requirements and limit, §15.247(d) §15.205, §15.209

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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. 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)).

Operation Mode	BT_LE(Min)
Operating Frequency	2402 MHz
Channel No	0 Ch

Frequency [MHz]	Reading [dBuV/m]	A.F.+CL [dBm]	Ant. Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	27.37	31.31	H	58.68	73.98	15.30	PK
2390.0	15.52	31.31	H	46.83	53.98	7.15	AV
2390.0	27.41	31.31	V	58.72	73.98	15.26	PK
2390.0	15.53	31.31	V	46.84	53.98	7.14	AV

Operation Mode	BT_LE(Max)
Operating Frequency	2402 MHz
Channel No	0 Ch

Frequency [MHz]	Reading [dBuV/m]	A.F.+CL [dBm]	Ant. Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	27.50	31.31	H	58.81	73.98	15.17	PK
2390.0	15.56	31.31	H	46.87	53.98	7.11	AV
2390.0	27.44	31.31	V	58.75	73.98	15.23	PK
2390.0	15.48	31.31	V	46.79	53.98	7.19	AV

Notes:

1. Frequency range of measurement = 2310 MHz ~ 2390 MHz
2. The Reading values are already added value of the duty cycle factor.
3. Total = Reading Value + Antenna Factor + Cable Loss
4. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
5. The radiated restricted band edge measurements are measured with a spectrum analyzer connected to the receive antenna while the EUT is transmitting.

Operation Mode BT _LE(Min)

Operating Frequency 2480 MHz

Channel No 39 Ch

Frequency [MHz]	Reading [dBuV/m]	A.F.+CL [dBm]	Ant. Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2483.5	27.53	31.37	H	58.90	73.98	15.08	PK
2483.5	15.83	31.37	H	47.20	53.98	6.78	AV
2483.5	27.49	31.37	V	58.86	73.98	15.12	PK
2483.5	15.78	31.37	V	47.15	53.98	6.83	AV

Operation Mode BT _LE(Max)

Operating Frequency 2480 MHz

Channel No 39 Ch

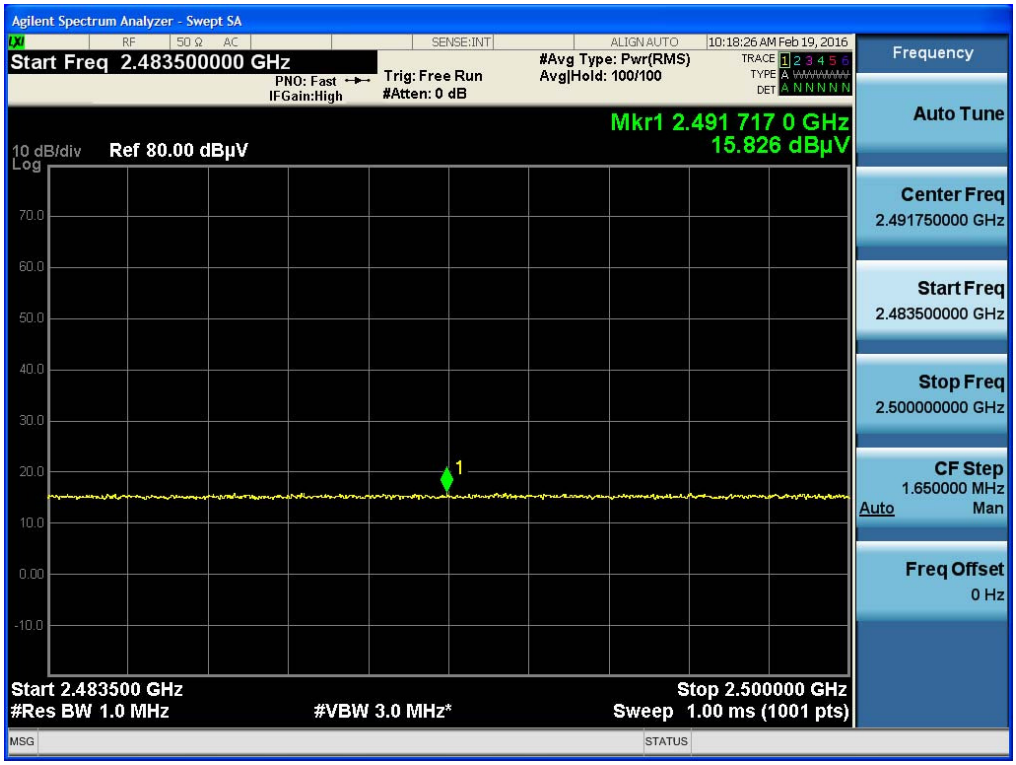
Frequency [MHz]	Reading [dBuV/m]	A.F.+CL [dBm]	Ant. Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2483.5	27.69	31.37	H	59.06	73.98	14.92	PK
2483.5	15.86	31.37	H	47.23	53.98	6.75	AV
2483.5	27.53	31.37	V	58.90	73.98	15.08	PK
2483.5	15.84	31.37	V	47.21	53.98	6.77	AV

Notes:

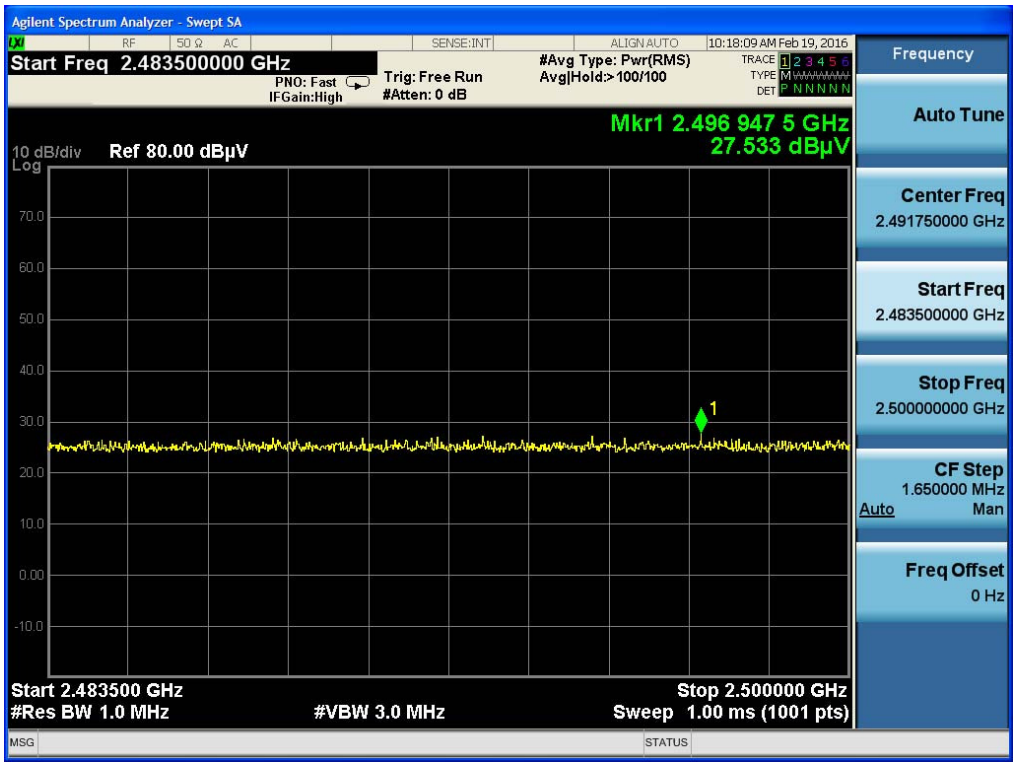
1. Frequency range of measurement = 2483.5 MHz ~ 2500 MHz
2. The Reading values are already added value of the duty cycle factor.
3. Total = Reading Value + Antenna Factor + Cable Loss
4. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
5. The radiated restricted band edge measurements are measured with a spectrum analyzer connected to the receive antenna while the EUT is transmitting.

▣ RESULT PLOTS_Min (Worst case: x-H)

Radiated Restricted Band Edges plot – Average Reading (LE, High Ch.)

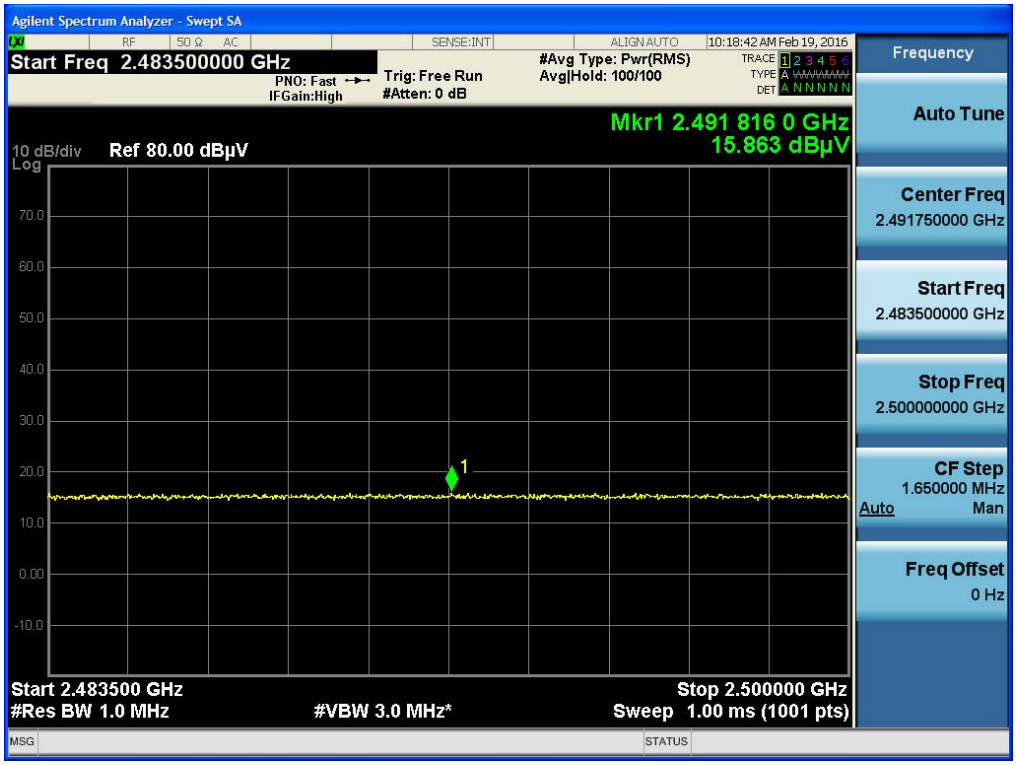


Radiated Restricted Band Edges plot – Peak Reading (LE, High Ch.)

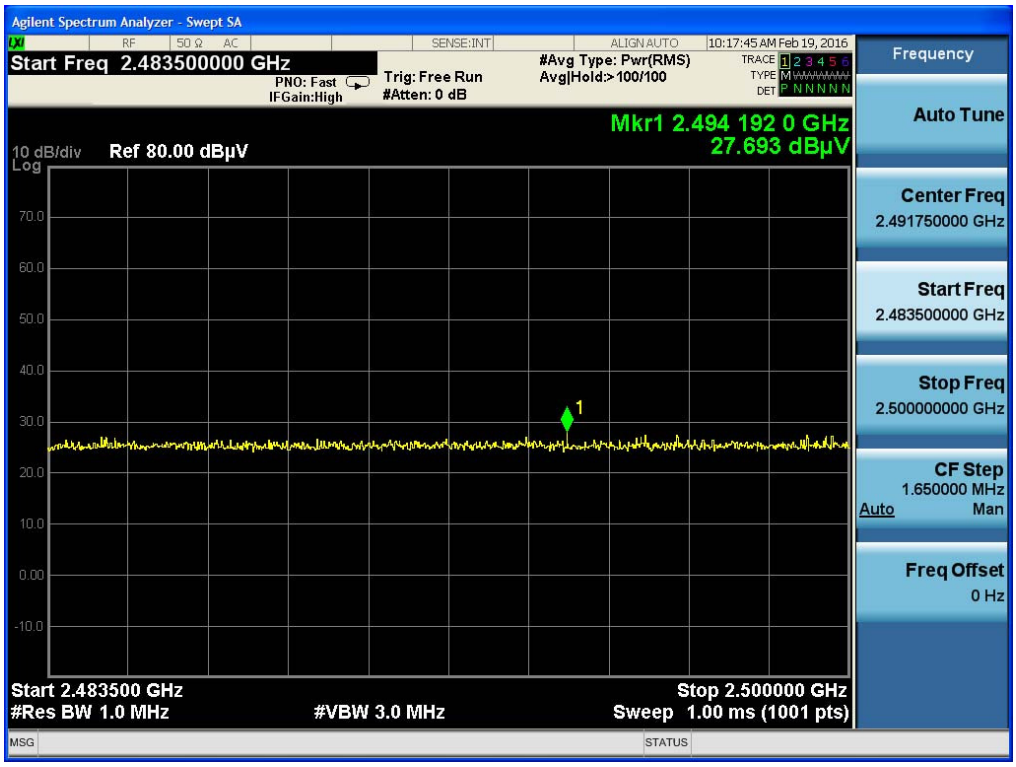


▣ RESULT PLOTS_Max (Worst case: x-H)

Radiated Restricted Band Edges plot – Average Reading (LE, High Ch.)



Radiated Restricted Band Edges plot – Peak Reading (LE, High Ch.)



Note : Only the worst case plots for Radiated Restricted Band Edges.

8.7 POWERLINE CONDUCTED EMISSIONS

Test Requirements and limit, §15.207

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Configuration

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Detectors – Quasi Peak and Average Detector.

Sample Calculation

Quasi-peak(Final Result) = Reading Value + Correction Factor

▣ RESULT PLOTS_Min

Conducted Emissions (Line 1)

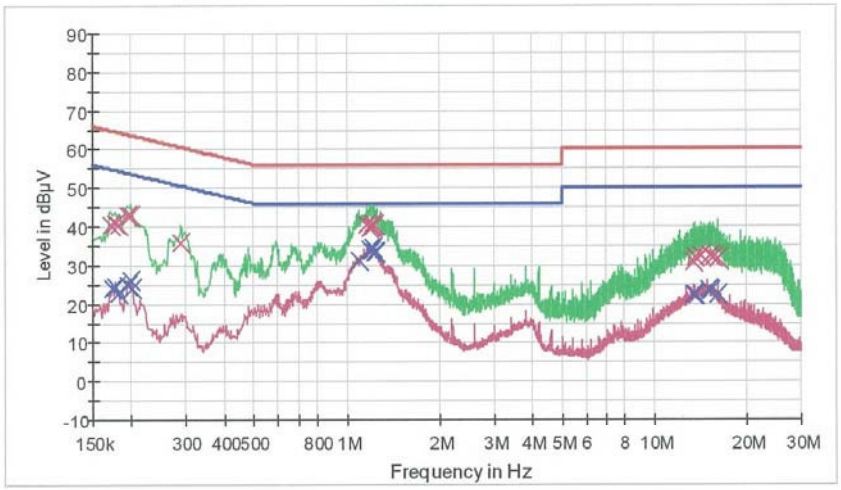
EMI Auto Test(16) 1 / 2

HCT TEST Report

Common Information

EUT:	LG-H850
Manufacturer:	LG
Test Site:	SHIELD ROOM
Operating Conditions:	BT LE(MIN)

FCC CLASS B



FCC CLASS B_QP
Preview Result 2-AVG
FCC CLASS B_ AV
Final Result 1-QPK
Preview Result 1-PK+
Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.172000	40.5	9.000	Off	N	9.6	24.4	64.9
0.178000	41.0	9.000	Off	N	9.6	23.6	64.6
0.182000	40.6	9.000	Off	N	9.6	23.8	64.4
0.194000	43.1	9.000	Off	N	9.6	20.8	63.9
0.200000	42.9	9.000	Off	N	9.6	20.7	63.6
0.290000	35.7	9.000	Off	N	9.6	24.8	60.5
1.164000	40.4	9.000	Off	N	9.7	15.6	56.0
1.190000	39.8	9.000	Off	N	9.7	16.2	56.0
1.200000	39.9	9.000	Off	N	9.7	16.1	56.0
1.212000	40.1	9.000	Off	N	9.7	15.9	56.0
1.224000	40.7	9.000	Off	N	9.7	15.3	56.0
1.236000	40.6	9.000	Off	N	9.7	15.4	56.0
13.408000	30.9	9.000	Off	N	10.1	29.1	60.0
13.578000	31.8	9.000	Off	N	10.1	28.2	60.0
14.224000	32.4	9.000	Off	N	10.1	27.6	60.0
15.200000	32.3	9.000	Off	N	10.1	27.7	60.0
15.512000	32.2	9.000	Off	N	10.2	27.8	60.0
16.026000	31.7	9.000	Off	N	10.2	28.3	60.0

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EMI Auto Test(16) 2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.174000	24.0	9.000	Off	N	9.6	30.8	54.8
0.178000	24.5	9.000	Off	N	9.6	30.1	54.6
0.182000	22.7	9.000	Off	N	9.6	31.7	54.4
0.194000	25.0	9.000	Off	N	9.6	28.9	53.9
0.198000	26.1	9.000	Off	N	9.6	27.6	53.7
0.202000	24.1	9.000	Off	N	9.6	29.4	53.5
1.098000	31.2	9.000	Off	N	9.7	14.8	46.0
1.190000	33.9	9.000	Off	N	9.7	12.1	46.0
1.202000	33.8	9.000	Off	N	9.7	12.2	46.0
1.214000	34.5	9.000	Off	N	9.7	11.5	46.0
1.238000	33.4	9.000	Off	N	9.7	12.6	46.0
1.248000	33.1	9.000	Off	N	9.7	12.9	46.0
13.408000	22.2	9.000	Off	N	10.1	27.8	50.0
13.578000	22.5	9.000	Off	N	10.1	27.5	50.0
14.998000	23.5	9.000	Off	N	10.1	26.5	50.0
15.200000	23.1	9.000	Off	N	10.1	26.9	50.0
16.026000	22.4	9.000	Off	N	10.2	27.6	50.0
16.032000	22.3	9.000	Off	N	10.2	27.7	50.0

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Conducted Emissions (Line 2)

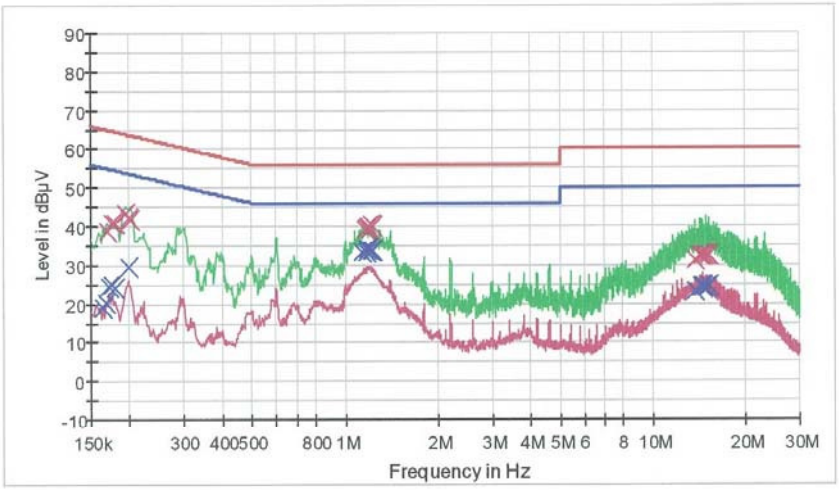
EMI Auto Test(16) 1 / 2

HCT TEST Report

Common Information

EUT:	LG-H850
Manufacturer:	LG
Test Site:	SHIELD ROOM
Operating Conditions:	BT LE(MIN)

FCC CLASS B



FCC CLASS B_QP
Preview Result 2-AVG
FCC CLASS B_ AV
Final Result 1-QPK
Preview Result 1-PK+
Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.170000	38.9	9.000	Off	L1	9.6	26.1	65.0
0.176000	40.8	9.000	Off	L1	9.6	23.9	64.7
0.180000	40.8	9.000	Off	L1	9.6	23.7	64.5
0.194000	43.3	9.000	Off	L1	9.6	20.6	63.9
0.198000	42.2	9.000	Off	L1	9.6	21.5	63.7
0.202000	41.9	9.000	Off	L1	9.6	21.6	63.5
1.160000	39.4	9.000	Off	L1	9.7	16.6	56.0
1.182000	39.8	9.000	Off	L1	9.7	16.2	56.0
1.196000	39.9	9.000	Off	L1	9.7	16.1	56.0
1.206000	39.1	9.000	Off	L1	9.7	16.9	56.0
1.216000	40.4	9.000	Off	L1	9.7	15.6	56.0
1.228000	40.0	9.000	Off	L1	9.7	16.0	56.0
13.802000	31.3	9.000	Off	L1	10.1	28.7	60.0
14.210000	32.3	9.000	Off	L1	10.1	27.7	60.0
14.452000	32.4	9.000	Off	L1	10.1	27.6	60.0
14.546000	32.2	9.000	Off	L1	10.1	27.8	60.0
14.806000	32.5	9.000	Off	L1	10.1	27.5	60.0
15.166000	32.4	9.000	Off	L1	10.2	27.6	60.0

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EMI Auto Test(16) 2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.164000	19.2	9.000	Off	L1	9.6	36.1	55.3
0.168000	20.2	9.000	Off	L1	9.6	34.9	55.1
0.172000	24.5	9.000	Off	L1	9.6	30.4	54.9
0.176000	24.9	9.000	Off	L1	9.6	29.8	54.7
0.180000	24.1	9.000	Off	L1	9.6	30.4	54.5
0.198000	29.4	9.000	Off	L1	9.6	24.3	53.7
1.140000	33.2	9.000	Off	L1	9.7	12.8	46.0
1.176000	33.3	9.000	Off	L1	9.7	12.7	46.0
1.184000	34.1	9.000	Off	L1	9.7	11.9	46.0
1.192000	34.1	9.000	Off	L1	9.7	11.9	46.0
1.216000	33.7	9.000	Off	L1	9.7	12.3	46.0
1.232000	33.7	9.000	Off	L1	9.7	12.3	46.0
13.786000	23.4	9.000	Off	L1	10.1	26.6	50.0
14.450000	24.3	9.000	Off	L1	10.1	25.7	50.0
14.498000	24.6	9.000	Off	L1	10.1	25.4	50.0
14.546000	24.2	9.000	Off	L1	10.1	25.8	50.0
14.894000	24.2	9.000	Off	L1	10.1	25.8	50.0
15.166000	24.3	9.000	Off	L1	10.2	25.7	50.0

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▣ RESULT PLOTS_Max

Conducted Emissions (Line 1)

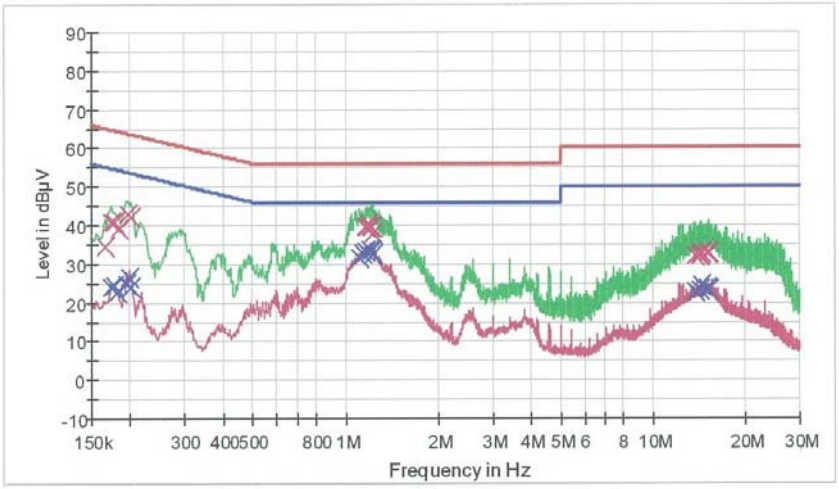
EMI Auto Test(16) 1 / 2

HCT TEST Report

Common Information

EUT:	LG-H850
Manufacturer:	LG
Test Site:	SHIELD ROOM
Operating Conditions:	BT LE(MAX)

FCC CLASS B



FCC CLASS B_QP
Preview Result 2-AVG
FCC CLASS B_ AV
Final Result 1-QPK
Preview Result 1-PK+
Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.166000	34.7	9.000	Off	N	9.6	30.5	65.2
0.174000	40.9	9.000	Off	N	9.6	23.9	64.8
0.178000	41.0	9.000	Off	N	9.6	23.6	64.6
0.184000	39.3	9.000	Off	N	9.6	25.0	64.3
0.196000	42.8	9.000	Off	N	9.6	21.0	63.8
0.202000	42.2	9.000	Off	N	9.6	21.3	63.5
1.164000	39.5	9.000	Off	N	9.7	16.5	56.0
1.178000	39.5	9.000	Off	N	9.7	16.5	56.0
1.188000	40.5	9.000	Off	N	9.7	15.5	56.0
1.198000	39.7	9.000	Off	N	9.7	16.3	56.0
1.214000	39.5	9.000	Off	N	9.7	16.5	56.0
1.236000	38.1	9.000	Off	N	9.7	17.9	56.0
13.802000	32.0	9.000	Off	N	10.1	28.0	60.0
14.206000	32.6	9.000	Off	N	10.1	27.4	60.0
14.224000	32.1	9.000	Off	N	10.1	27.9	60.0
14.320000	32.9	9.000	Off	N	10.1	27.1	60.0
15.004000	33.0	9.000	Off	N	10.1	27.0	60.0
15.124000	32.7	9.000	Off	N	10.1	27.3	60.0

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EMI Auto Test(16) 2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.174000	23.9	9.000	Off	N	9.6	30.9	54.8
0.178000	24.5	9.000	Off	N	9.6	30.1	54.6
0.182000	22.6	9.000	Off	N	9.6	31.8	54.4
0.194000	24.7	9.000	Off	N	9.6	29.2	53.9
0.198000	26.5	9.000	Off	N	9.6	27.2	53.7
0.202000	24.1	9.000	Off	N	9.6	29.4	53.5
1.114000	31.6	9.000	Off	N	9.7	14.4	46.0
1.142000	32.7	9.000	Off	N	9.7	13.3	46.0
1.166000	33.3	9.000	Off	N	9.7	12.7	46.0
1.210000	33.5	9.000	Off	N	9.7	12.5	46.0
1.214000	33.5	9.000	Off	N	9.7	12.5	46.0
1.236000	32.6	9.000	Off	N	9.7	13.4	46.0
13.802000	22.9	9.000	Off	N	10.1	27.1	50.0
14.206000	23.2	9.000	Off	N	10.1	26.8	50.0
14.224000	23.4	9.000	Off	N	10.1	26.6	50.0
14.320000	24.3	9.000	Off	N	10.1	25.7	50.0
15.004000	23.5	9.000	Off	N	10.1	26.5	50.0
15.124000	23.4	9.000	Off	N	10.1	26.6	50.0

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Conducted Emissions (Line 2)

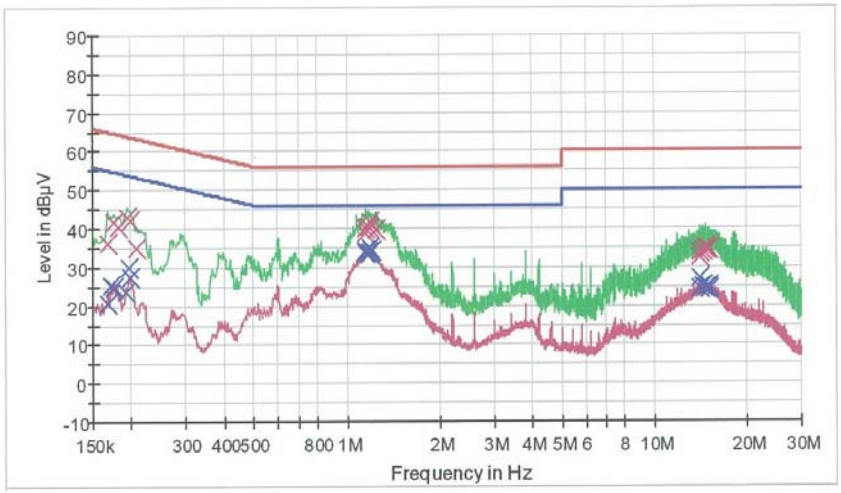
EMI Auto Test(16) 1 / 2

HCT TEST Report

Common Information

EUT:	LG-H850
Manufacturer:	LG
Test Site:	SHIELD ROOM
Operating Conditions:	BT LE(MAX)

FCC CLASS B



FCC CLASS B_QP
Preview Result 2-AVG
FCC CLASS B_ AV
Final Result 1-QPK
Preview Result 1-PK+
Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.168000	36.3	9.000	Off	L1	9.6	28.8	65.1
0.176000	41.8	9.000	Off	L1	9.6	22.9	64.7
0.182000	40.5	9.000	Off	L1	9.6	23.9	64.4
0.194000	42.8	9.000	Off	L1	9.6	21.1	63.9
0.200000	42.2	9.000	Off	L1	9.6	21.4	63.6
0.208000	35.0	9.000	Off	L1	9.6	28.3	63.3
1.152000	39.9	9.000	Off	L1	9.7	16.1	56.0
1.156000	38.5	9.000	Off	L1	9.7	17.5	56.0
1.176000	40.4	9.000	Off	L1	9.7	15.6	56.0
1.188000	41.7	9.000	Off	L1	9.7	14.3	56.0
1.192000	40.2	9.000	Off	L1	9.7	15.8	56.0
1.248000	39.7	9.000	Off	L1	9.7	16.3	56.0
14.052000	32.4	9.000	Off	L1	10.1	27.6	60.0
14.070000	33.9	9.000	Off	L1	10.1	26.1	60.0
14.442000	34.3	9.000	Off	L1	10.1	25.8	60.0
14.654000	34.9	9.000	Off	L1	10.1	25.1	60.0
14.688000	34.6	9.000	Off	L1	10.1	25.4	60.0
15.112000	34.4	9.000	Off	L1	10.2	25.6	60.0

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EMI Auto Test(16) 2 / 2

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.168000	20.7	9.000	Off	L1	9.6	34.4	55.1
0.172000	25.5	9.000	Off	L1	9.6	29.4	54.9
0.176000	24.8	9.000	Off	L1	9.6	29.9	54.7
0.192000	23.6	9.000	Off	L1	9.6	30.3	53.9
0.196000	30.0	9.000	Off	L1	9.6	23.8	53.8
0.200000	27.3	9.000	Off	L1	9.6	26.3	53.6
1.152000	34.0	9.000	Off	L1	9.7	12.0	46.0
1.156000	33.8	9.000	Off	L1	9.7	12.2	46.0
1.176000	33.7	9.000	Off	L1	9.7	12.3	46.0
1.188000	34.8	9.000	Off	L1	9.7	11.2	46.0
1.192000	33.8	9.000	Off	L1	9.7	12.2	46.0
1.202000	34.1	9.000	Off	L1	9.7	11.9	46.0
14.070000	24.5	9.000	Off	L1	10.1	25.5	50.0
14.102000	27.0	9.000	Off	L1	10.1	23.0	50.0
14.442000	25.1	9.000	Off	L1	10.1	24.9	50.0
14.654000	24.3	9.000	Off	L1	10.1	25.7	50.0
15.072000	24.8	9.000	Off	L1	10.2	25.2	50.0
15.112000	24.1	9.000	Off	L1	10.2	25.9	50.0

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9. LIST OF TEST EQUIPMENT

9.1 LIST OF TEST EQUIPMENT(Conducted Test)

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Rohde & Schwarz	ENV216/ LISN	12/28/2015	Annual	100073
Rohde & Schwarz	ESCI / TEST RECEIVER	12/28/2015	Annual	100584
Agilent	E4440A/ Spectrum Analyzer	03/18/2015	Annual	US45303008
Agilent	N9020A / SIGNAL ANALYZER	06/30/2015	Annual	MY51110085
Agilent	N9020A / SIGNAL ANALYZER	07/02/2015	Annual	MY50510304
Agilent	N1911A/Power Meter	07/09/2015	Annual	MY45100523
Agilent	N1921A /POWER SENSOR	07/09/2015	Annual	MY45241059
Agilent	87300B/Directional Coupler	11/30/2015	Annual	3116A03621
Hewlett Packard	11667B / Power Splitter	06/15/2015	Annual	5001
Hewlett Packard	E3632A / DC POWER SUPPLY	03/11/2015	Annual	KR75303962
Agilent	8493C / Attenuator(10 dB)	07/21/2015	Annual	07560
Rohde & Schwarz	CBT / BLUETOOTH TESTER	05/11/2015	Annual	100422

9.2 LIST OF TEST EQUIPMENT(Radiated Test)

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Schwarzbeck	VULB 9160/ TRILOG Antenna	10/10/2014	Biennial	3368
HD	MA240/ Antenna Position Tower	N/A	N/A	556
EMCO	1050/ Turn Table	N/A	N/A	114
HD GmbH	HD 100/ Controller	N/A	N/A	13
HD GmbH	KMS 560/ SlideBar	N/A	N/A	12
CERNEX	CBL18265035 / POWER AMP	07/27/2015	Annual	22966
Schwarzbeck	BBHA 9120D/ Horn Antenna	05/07/2015	Biennial	937
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	04/30/2015	Biennial	BBHA9170124
Rohde & Schwarz	FSP / Spectrum Analyzer	01/15/2016	Annual	839117/011
Wainwright Instrument	WHF3.0/18G-10EF / High Pass Filter	06/29/2015	Annual	8
Wainwright Instrument	WRCJ2400/2483.5-2370/2520-60/14SS / Band Reject Filter	06/15/2015	Annual	1
Rohde & Schwarz	LOOP ANTENNA	02/04/2016	Biennial	100179
CERNEX	CBL18265035 / POWER AMP	07/27/2015	Annual	22966
CERNEX	CBL06185030 / POWER AMP	07/21/2015	Annual	22965
CERNEX	CBLU1183540 / POWER AMP	07/21/2015	Annual	22964
Rohde & Schwarz	CBT / BLUETOOTH TESTER	05/11/2015	Annual	100422