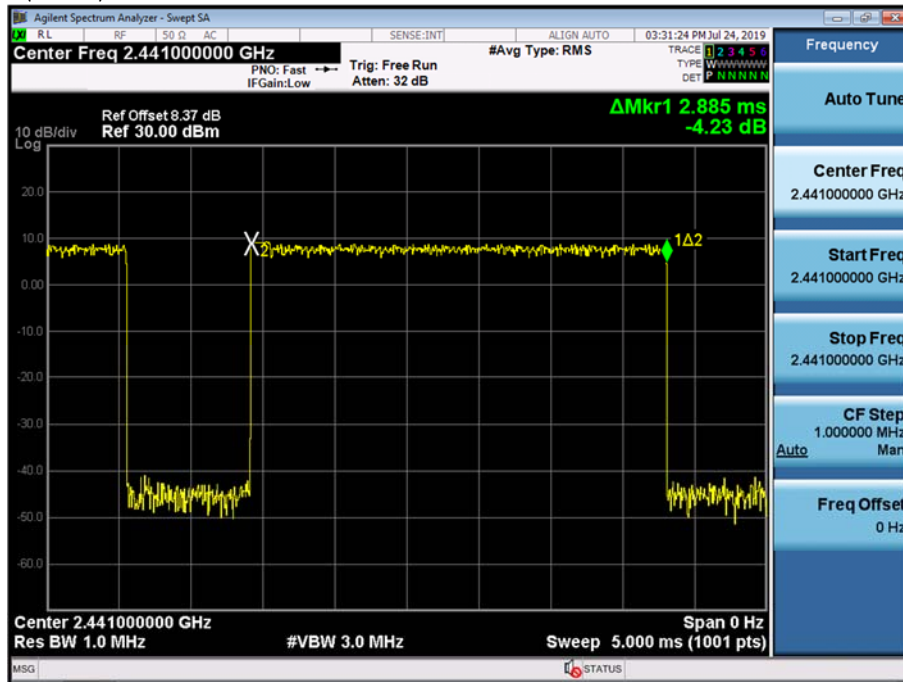


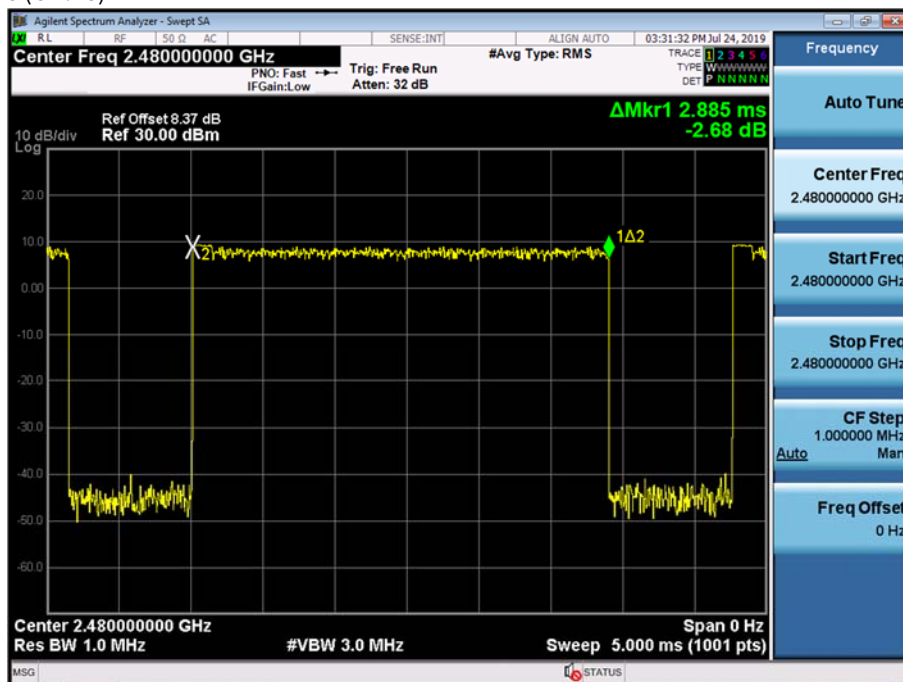
Test Plots (8DPSK)

Dwell Time (CH.39)



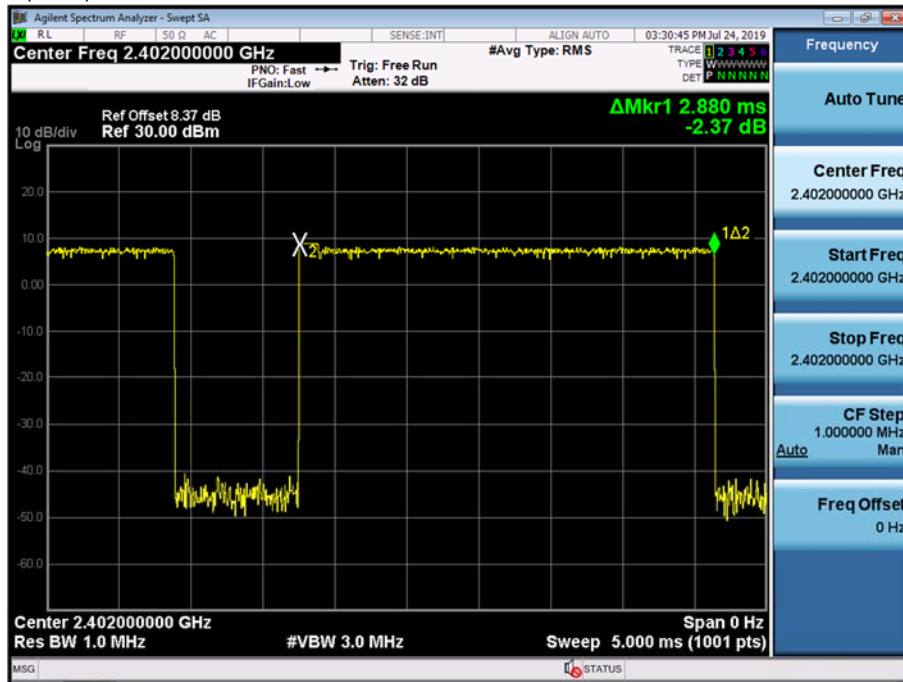
Test Plots (8DPSK)

Dwell Time (CH.78)

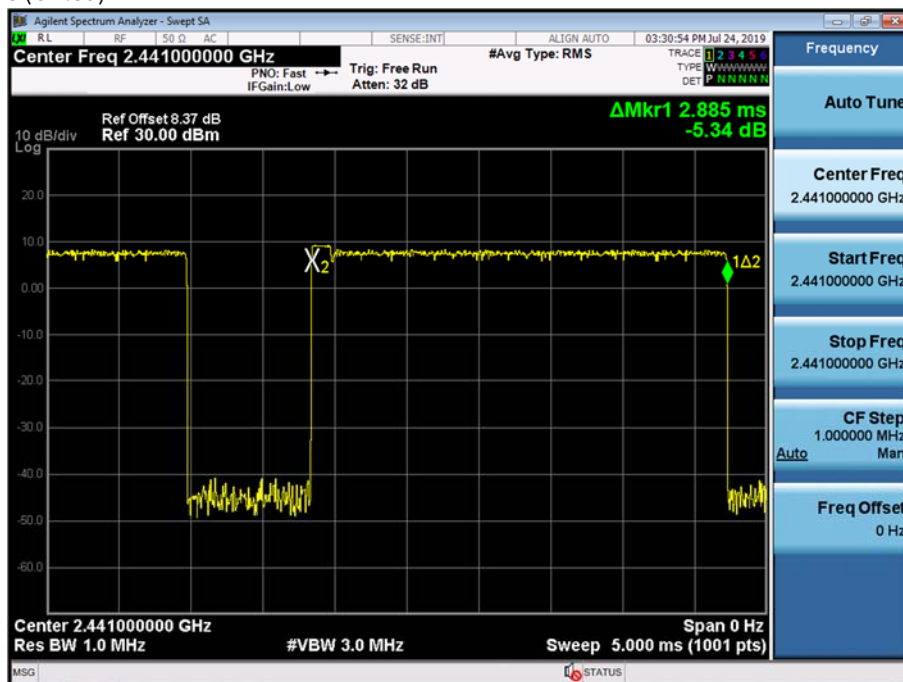


Test Plots ($\pi/4$ DQPSK)

Dwell Time (CH.0)

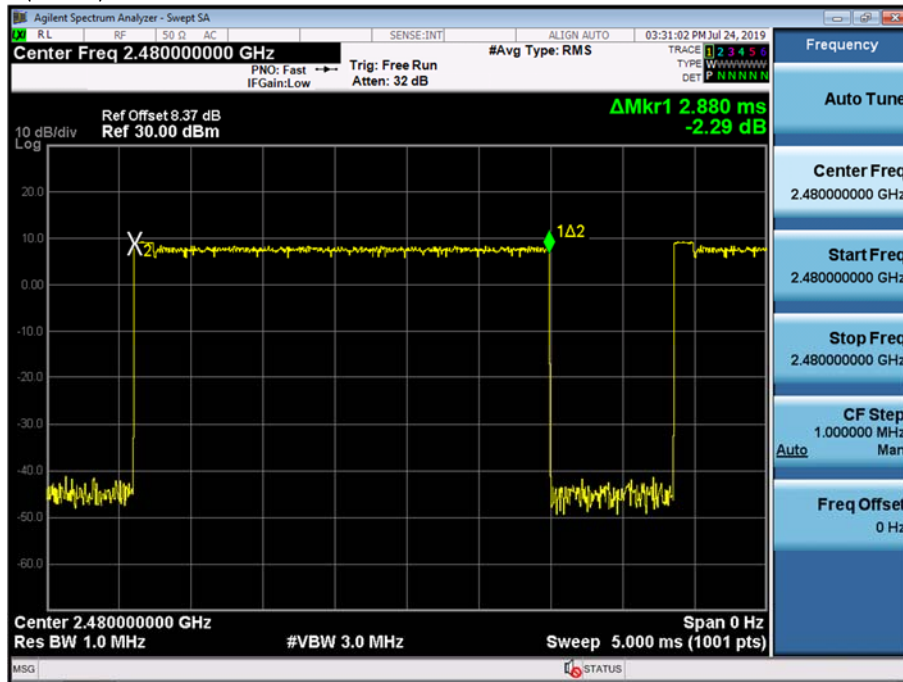

Test Plots ($\pi/4$ DQPSK)

Dwell Time (CH.39)



Test Plots ($\pi/4$ DQPSK)

Dwell Time (CH.78)



10.6 SPURIOUS EMISSIONS

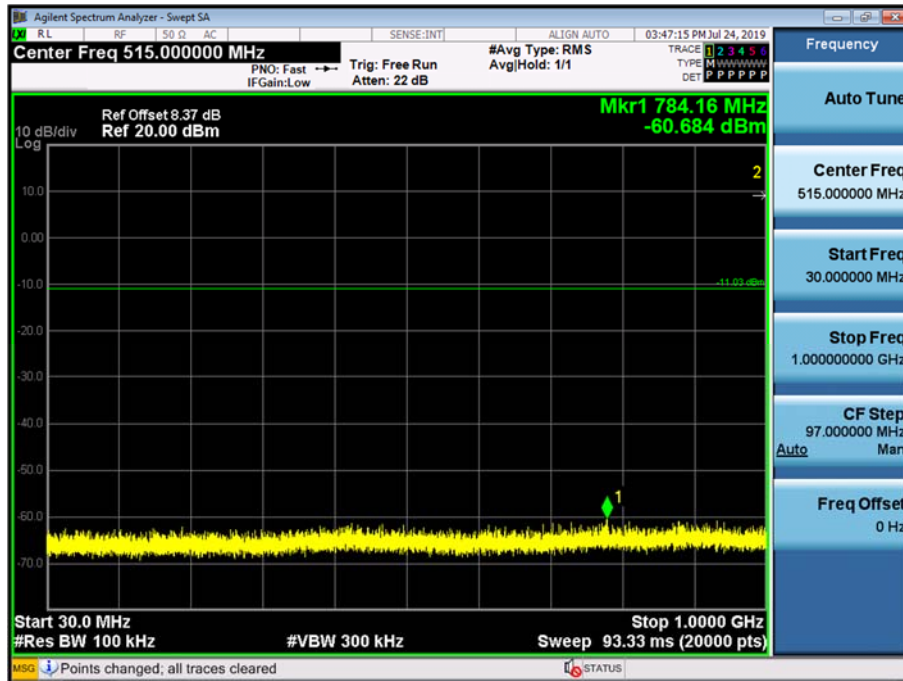
10.6.1 CONDUCTED SPURIOUS EMISSIONS

Test Result : please refer to the plot below.

In order to simplify the report, attached plots were only the worst case channel and data rate.

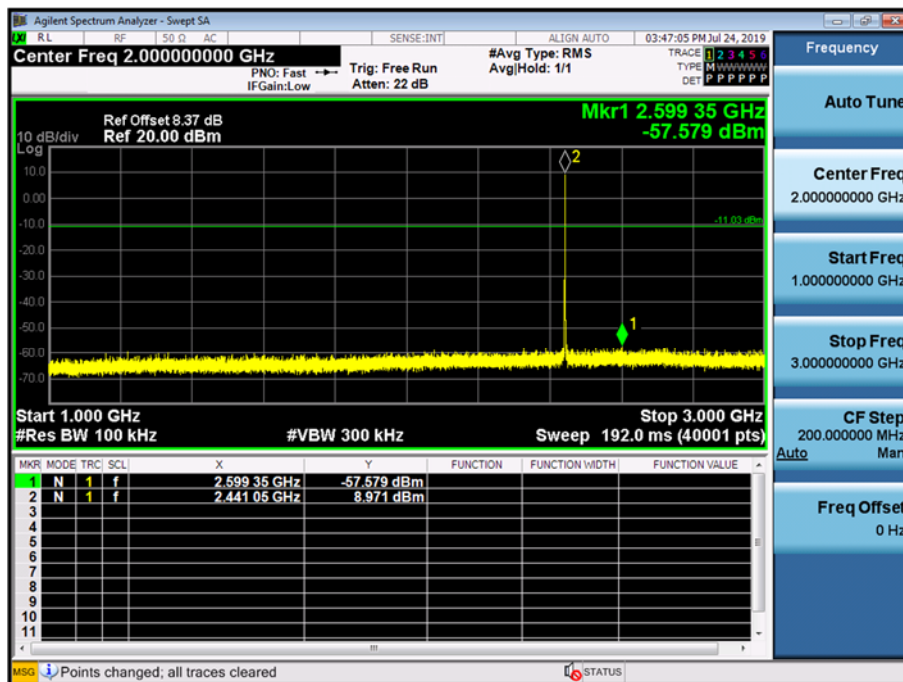
Test Plots (GFSK)- 30 MHz - 1 GHz

Spurious Emission (CH.39)



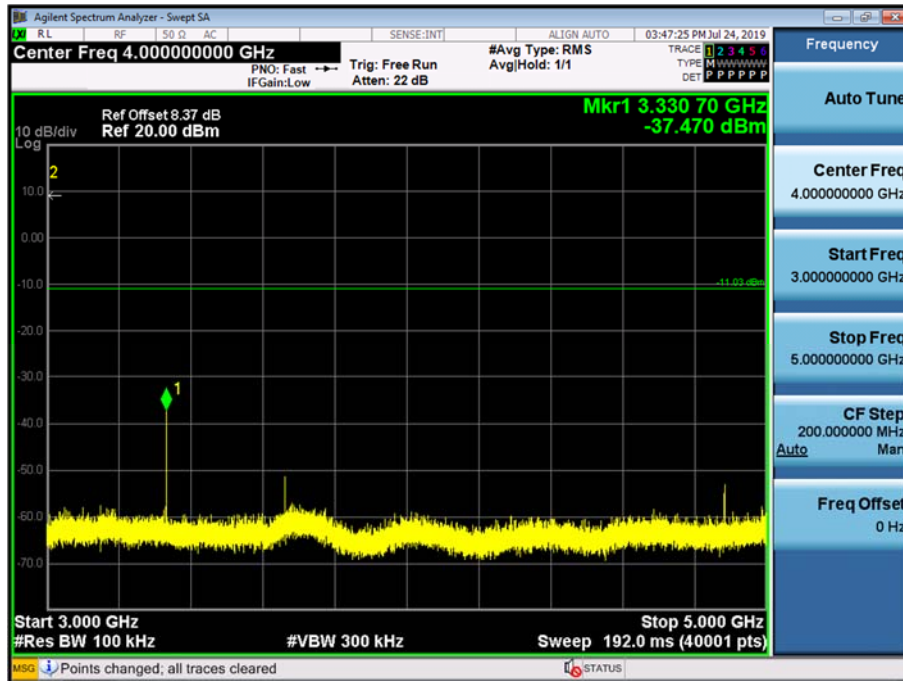
Test Plots (GFSK)- 1 GHz – 3 GHz

Spurious Emission (CH.39)



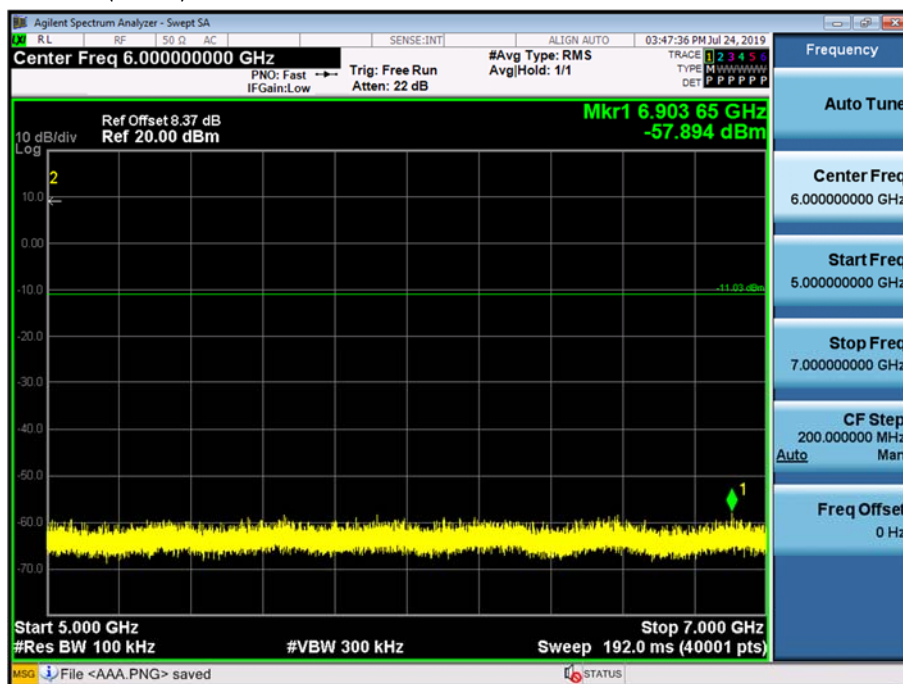
Test Plots(8DPSK)- 3 GHz - 5 GHz

Spurious Emission (CH.39)



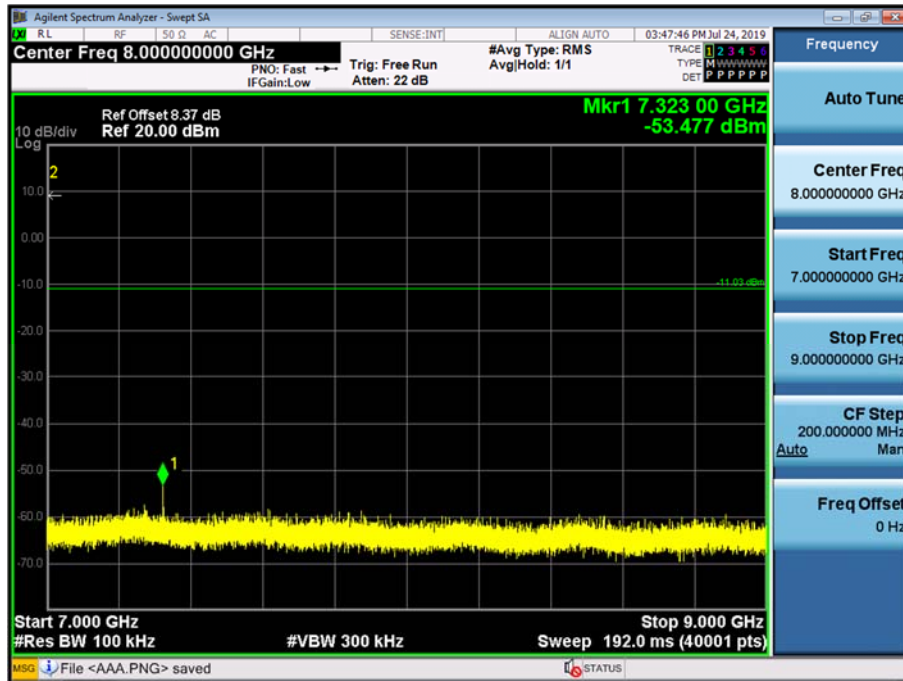
Test Plots (GFSK)- 5 GHz - 7 GHz

Spurious Emission (CH.39)



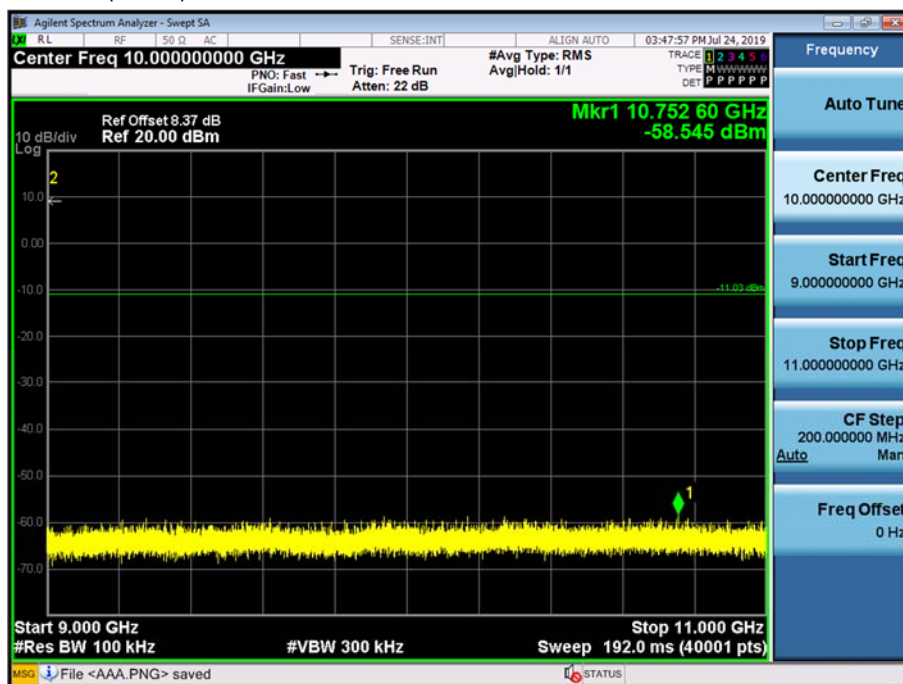
Test Plots(8DPSK)- 7 GHz - 9 GHz

Spurious Emission (CH.39)



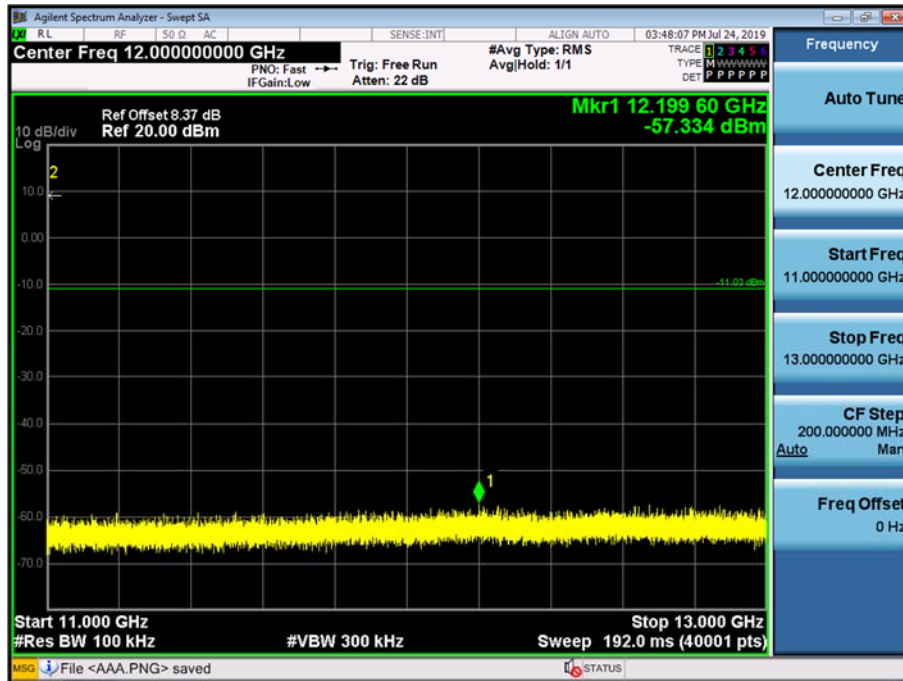
Test Plots(8DPSK)- 9 GHz - 11 GHz

Spurious Emission (CH.39)



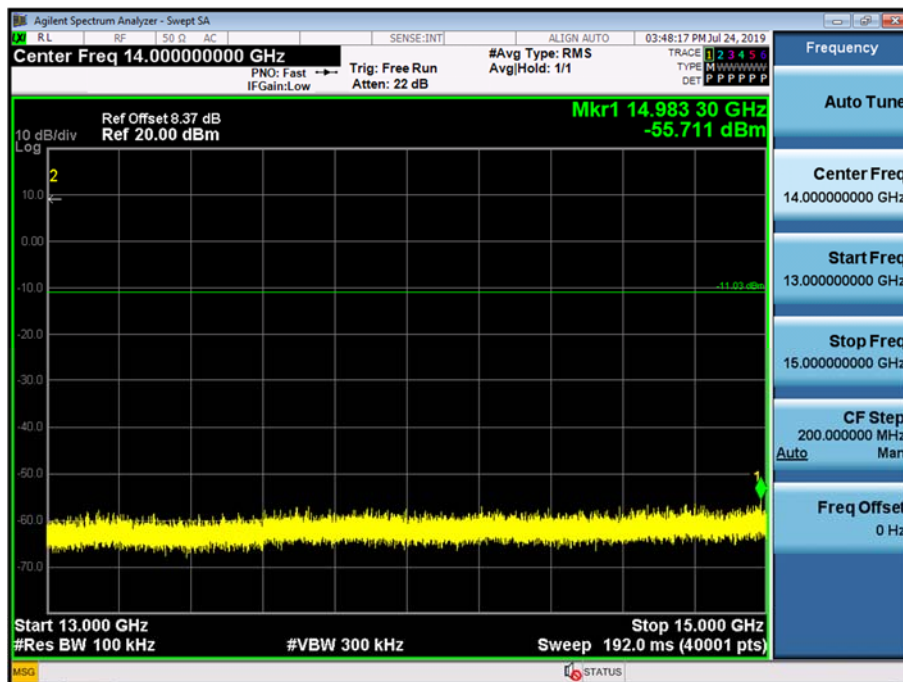
Test Plots(8DPSK) 11 GHz - 13 GHz

Spurious Emission (CH.39)



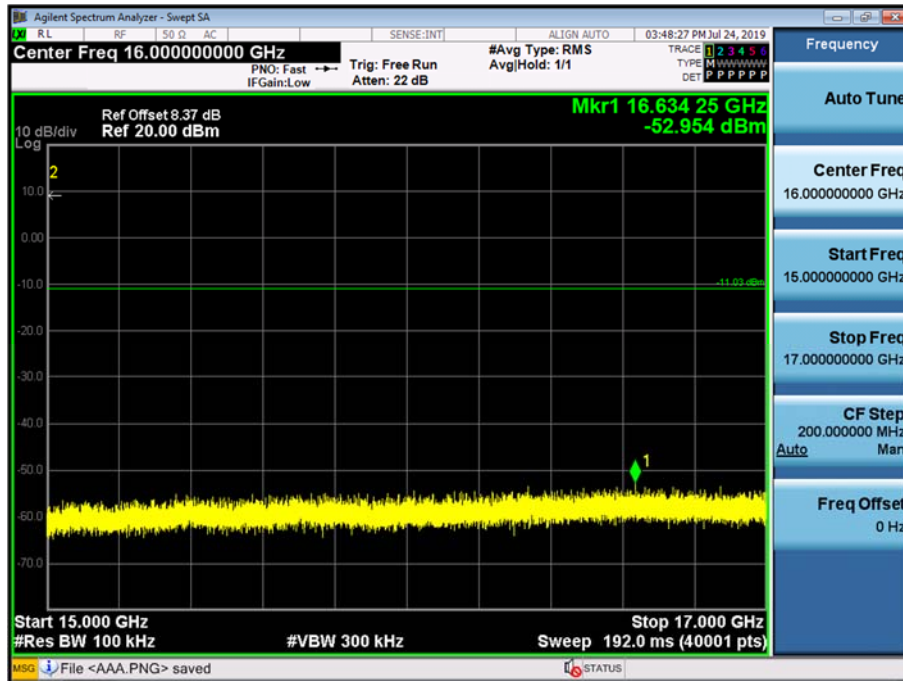
Test Plots (GFSK)- 13 GHz – 15 GHz

Spurious Emission (CH.39)



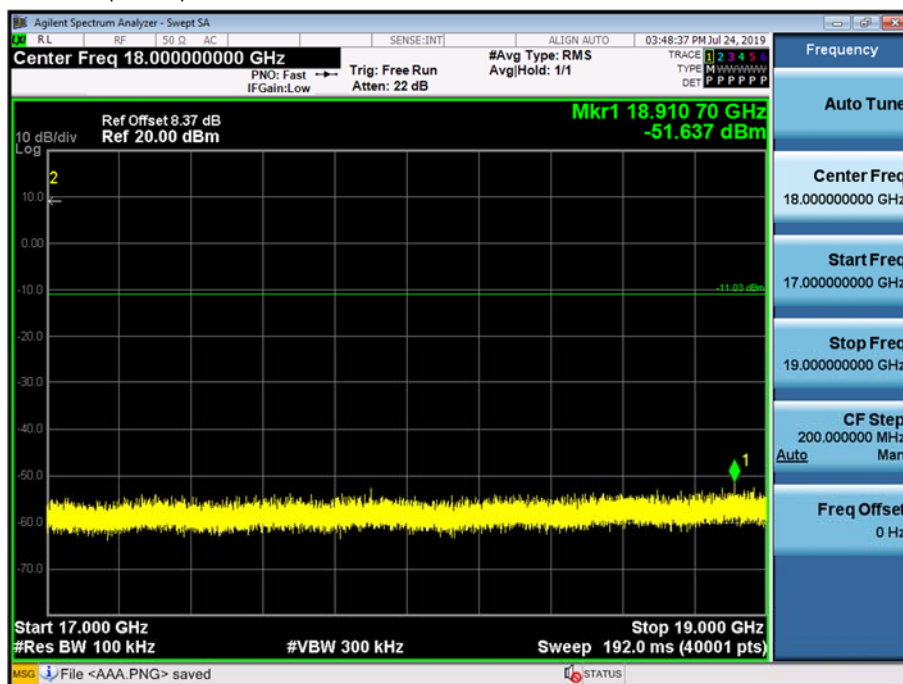
Test Plots(8DPSK)- 15 GHz - 17 GHz

Spurious Emission (CH.39)



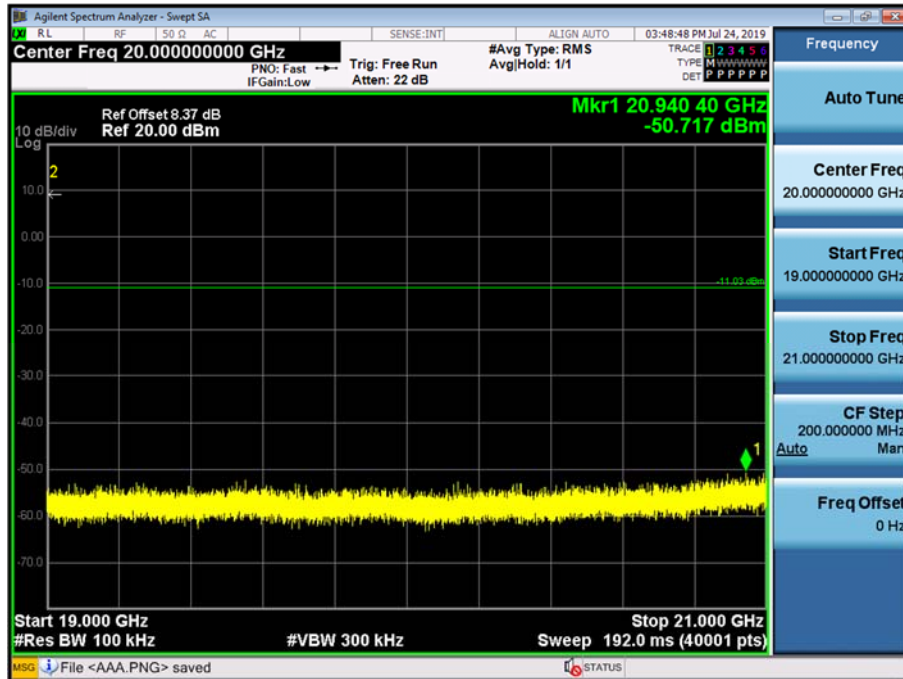
Test Plots(8DPSK)- 17 GHz - 19 GHz

Spurious Emission (CH.39)



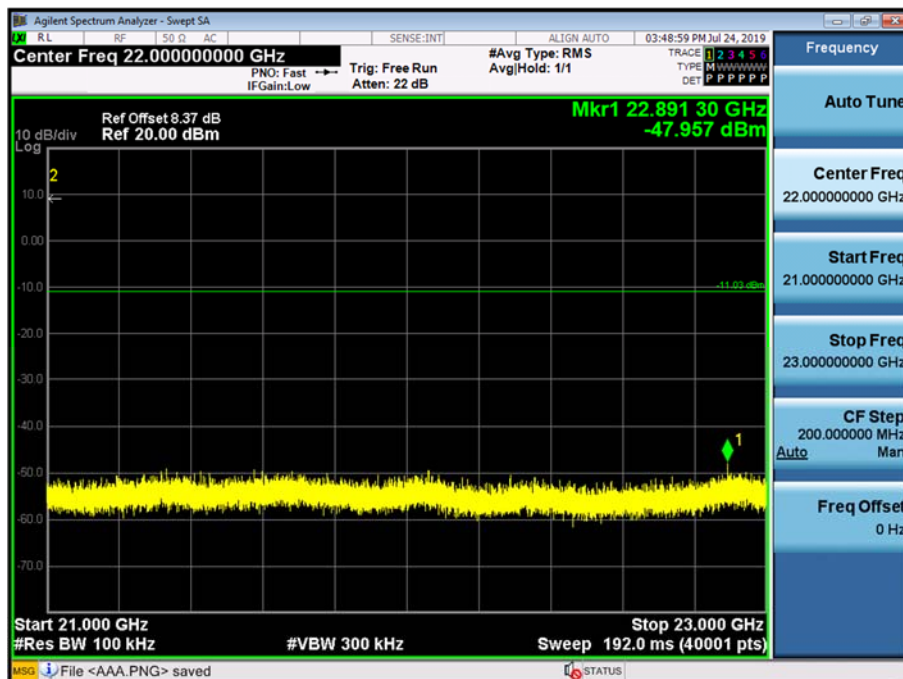
Test Plots (GFSK)- 19 GHz - 21 GHz

Spurious Emission (CH.39)



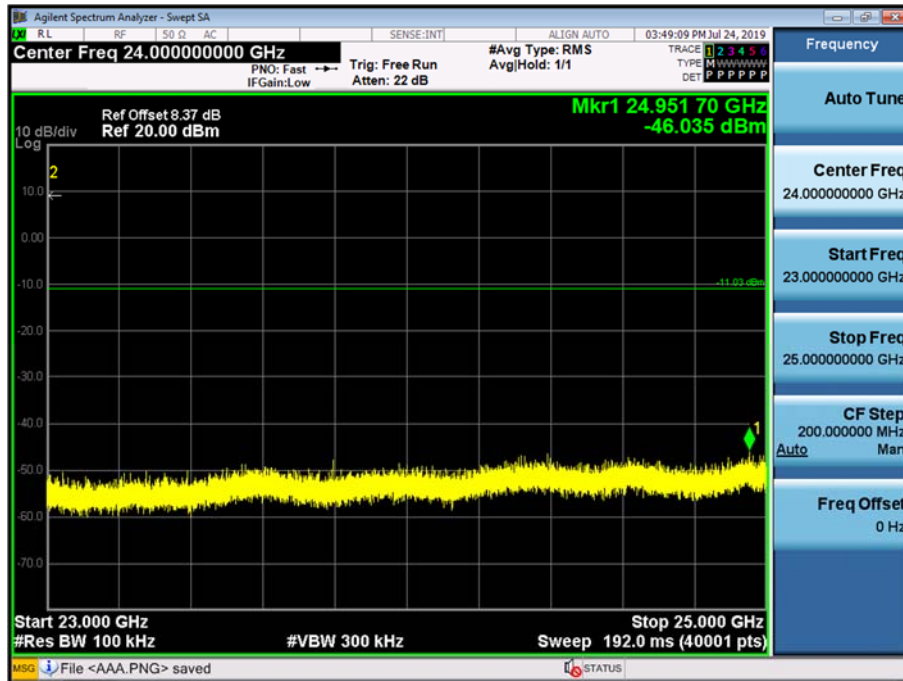
Test Plots (GFSK)- 21 GHz - 23 GHz

Spurious Emission (CH.39)



Test Plots (GFSK)- 23 GHz - 25 GHz

Spurious Emission (CH.39)



10.6.2 RADIATED SPURIOUS EMISSIONS

Frequency Range : 9 kHz – 30MHz

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

Note:

1. The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
2. Distance extrapolation factor = $40 \cdot \log(\text{specific distance} / \text{test distance})$ (dB)
3. Limit line = specific Limits (dBuV) + Distance extrapolation factor
4. Radiated test is performed with hopping off.

Frequency Range : Below 1 GHz

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

Note:

1. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.
2. Radiated test is performed with hopping off.

Frequency Range : Above 1 GHz

Operation Mode: CH Low(GFSK)

Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4804	46.13	2.17	V	48.30	73.98	25.68	PK
4804	34.69	2.17	V	36.86	53.98	17.12	AV
7206	48.53	8.97	V	57.5	73.98	16.48	PK
7206	39.76	8.97	V	48.73	53.98	5.25	AV
4804	46.24	2.17	H	48.41	73.98	25.57	PK
4804	34.81	2.17	H	36.98	53.98	17.00	AV
7206	48.68	8.97	H	57.65	73.98	16.33	PK
7206	39.85	8.97	H	48.82	53.98	5.16	AV

Operation Mode: CH Low(8DPSK)

Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4804	46.23	2.17	V	48.40	73.98	25.58	PK
4804	32.71	2.17	V	34.88	53.98	19.10	AV
7206	47.39	8.97	V	56.36	73.98	17.62	PK
7206	35.69	8.97	V	44.66	53.98	9.32	AV
4804	46.39	2.17	H	48.56	73.98	25.42	PK
4804	32.77	2.17	H	34.94	53.98	19.04	AV
7206	47.53	8.97	H	56.5	73.98	17.48	PK
7206	35.81	8.97	H	44.78	53.98	9.20	AV

Operation Mode: CH Low($\pi/4$ DQPSK)

Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4804	46.37	2.17	V	48.54	73.98	25.44	PK
4804	32.58	2.17	V	34.75	53.98	19.23	AV
7206	47.67	8.97	V	56.64	73.98	17.34	PK
7206	35.76	8.97	V	44.73	53.98	9.25	AV
4804	46.42	2.17	H	48.59	73.98	25.39	PK
4804	32.83	2.17	H	35	53.98	18.98	AV
7206	47.87	8.97	H	56.84	73.98	17.14	PK
7206	35.93	8.97	H	44.9	53.98	9.08	AV

Operation Mode: CH Mid(GFSK)

Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4882	43.69	2.68	V	46.37	73.98	27.61	PK
4882	30.58	2.68	V	33.26	53.98	20.72	AV
7323	46.48	9.03	V	55.51	73.98	18.47	PK
7323	38.39	9.03	V	47.42	53.98	6.56	AV
4882	43.84	2.68	H	46.52	73.98	27.46	PK
4882	30.91	2.68	H	33.59	53.98	20.39	AV
7323	46.66	9.03	H	55.69	73.98	18.29	PK
7323	38.54	9.03	H	47.57	53.98	6.41	AV

Operation Mode: CH Mid(8DPSK)

Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4882	43.15	2.68	V	45.83	73.98	28.15	PK
4882	29.21	2.68	V	31.89	53.98	22.09	AV
7323	46.13	9.03	V	55.16	73.98	18.82	PK
7323	34.58	9.03	V	43.61	53.98	10.37	AV
4882	43.18	2.68	H	45.86	73.98	28.12	PK
4882	29.35	2.68	H	32.03	53.98	21.95	AV
7323	46.22	9.03	H	55.25	73.98	18.73	PK
7323	34.83	9.03	H	43.86	53.98	10.12	AV

Operation Mode: CH Mid($\pi/4$ DQPSK)

Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4882	43.22	2.68	V	45.9	73.98	28.08	PK
4882	29.79	2.68	V	32.47	53.98	21.51	AV
7323	45.98	9.03	V	55.01	73.98	18.97	PK
7323	34.67	9.03	V	43.7	53.98	10.28	AV
4882	43.24	2.68	H	45.92	73.98	28.06	PK
4882	29.85	2.68	H	32.53	53.98	21.45	AV
7323	46.07	9.03	H	55.1	73.98	18.88	PK
7323	34.82	9.03	H	43.85	53.98	10.13	AV

Operation Mode: CH High(GFSK)

Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4960	43.86	1.54	V	45.40	73.98	28.58	PK
4960	31.22	1.54	V	32.76	53.98	21.22	AV
7440	44.96	9.82	V	54.78	73.98	19.20	PK
7440	35.81	9.82	V	45.63	53.98	8.35	AV
4960	43.92	1.54	H	45.46	73.98	28.52	PK
4960	31.38	1.54	H	32.92	53.98	21.06	AV
7440	45.03	9.82	H	54.85	73.98	19.13	PK
7440	35.97	9.82	H	45.79	53.98	8.19	AV

Operation Mode: CH High(8DPSK)

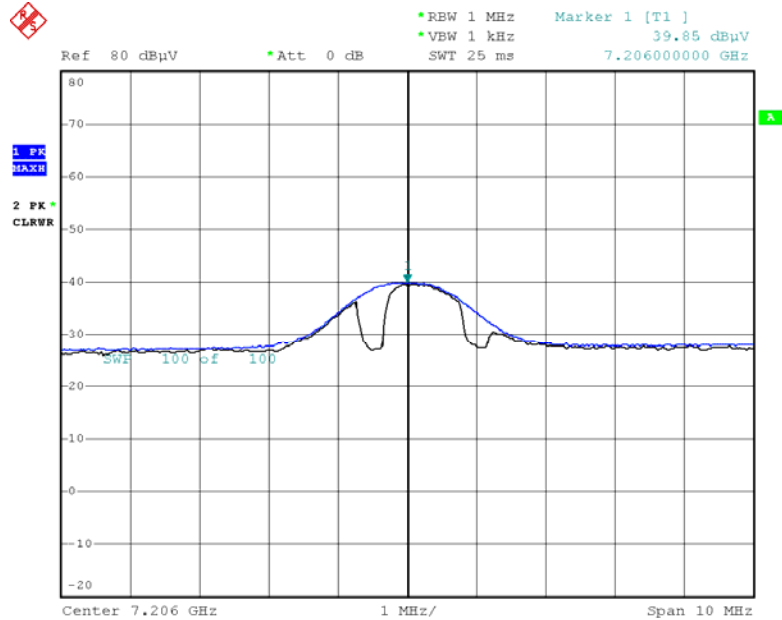
Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4960	41.99	1.54	V	43.53	73.98	30.45	PK
4960	29.76	1.54	V	31.30	53.98	22.68	AV
7440	46.21	9.82	V	56.03	73.98	17.95	PK
7440	34.86	9.82	V	44.68	53.98	9.30	AV
4960	42.70	1.54	H	44.24	73.98	29.74	PK
4960	29.99	1.54	H	31.53	53.98	22.45	AV
7440	46.27	9.82	H	56.09	73.98	17.89	PK
7440	34.99	9.82	H	44.81	53.98	9.17	AV

Operation Mode: CH High ($\pi/4$ DQPSK)

Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4960	42.79	1.54	V	44.33	73.98	29.65	PK
4960	29.95	1.54	V	31.49	53.98	22.49	AV
7440	44.16	9.82	V	53.98	73.98	20.00	PK
7440	32.68	9.82	V	42.5	53.98	11.48	AV
4960	42.89	1.54	H	44.43	73.98	29.55	PK
4960	30.15	1.54	H	31.69	53.98	22.29	AV
7440	44.24	9.82	H	54.06	73.98	19.92	PK
7440	32.80	9.82	H	42.62	53.98	11.36	AV

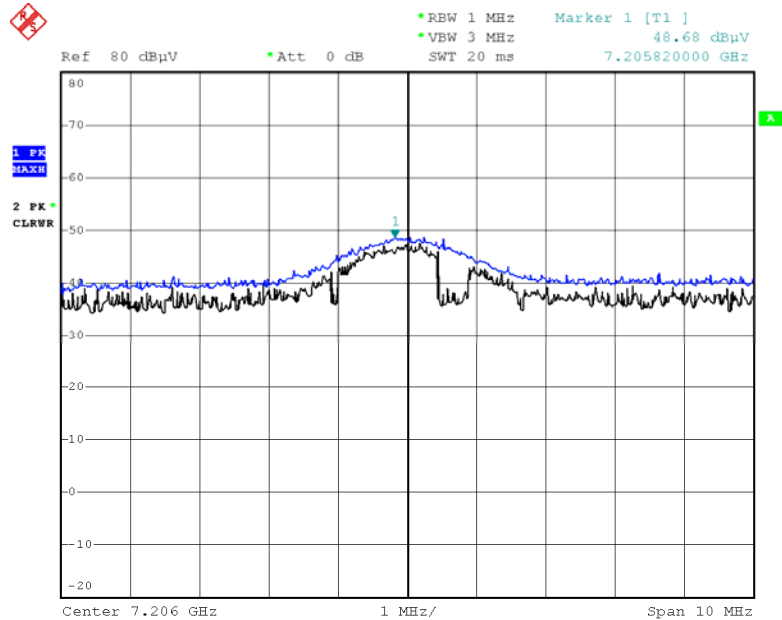
RESULT PLOTS (Worst case : X-H)

Radiated Spurious Emissions plot – Average Reading (GFSK, Ch.0 3rd Harmonic)



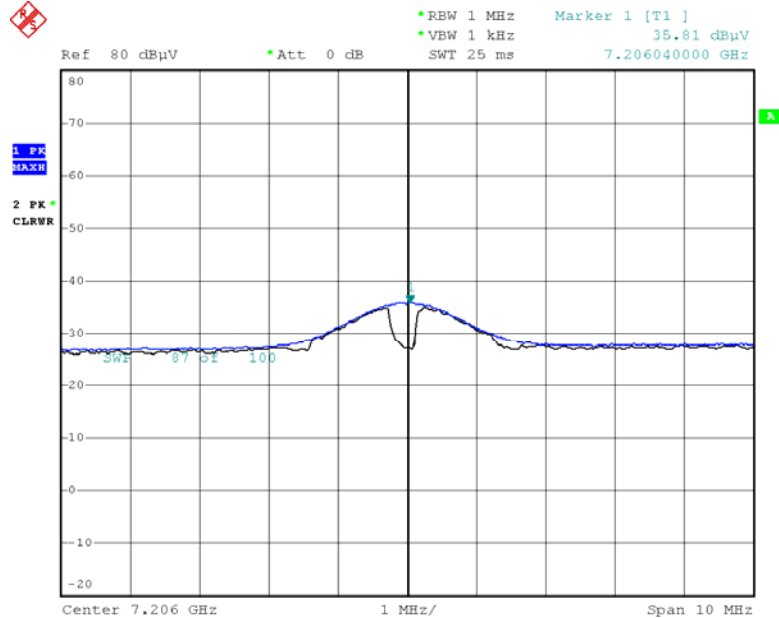
Date: 25.JUL.2019 14:39:35

Radiated Spurious Emissions plot – Peak Reading (GFSK, Ch.0 3rd Harmonic)



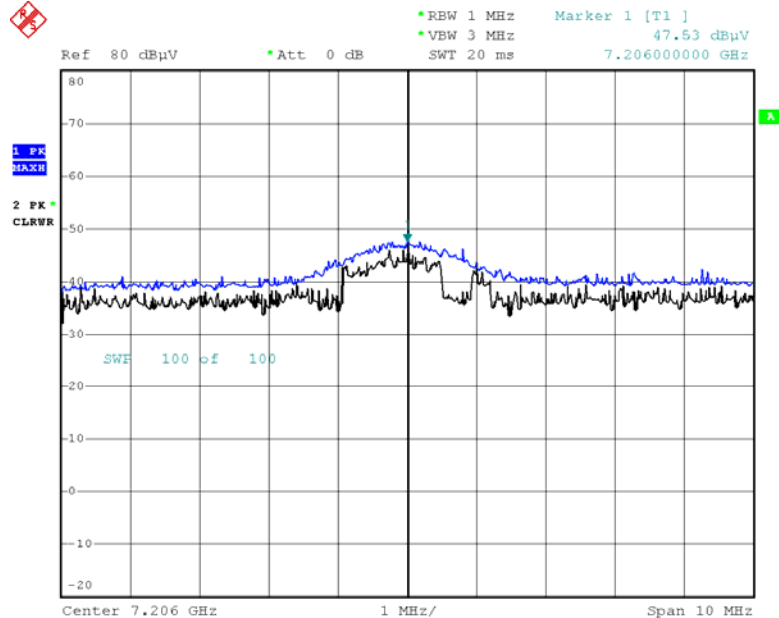
Date: 25.JUL.2019 14:38:40

Radiated Spurious Emissions plot – Average Reading (8DPSK, Ch.0 3rd Harmonic)

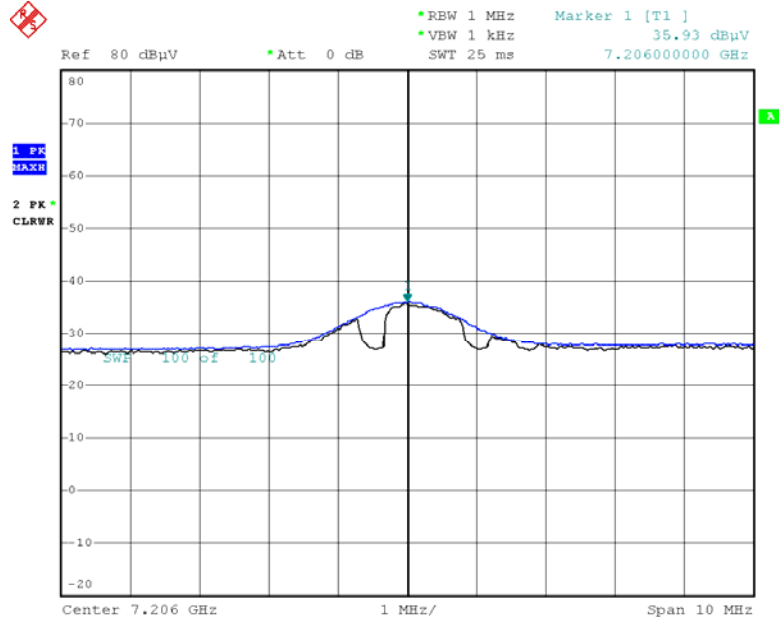


Date: 25.JUL.2019 14:47:48

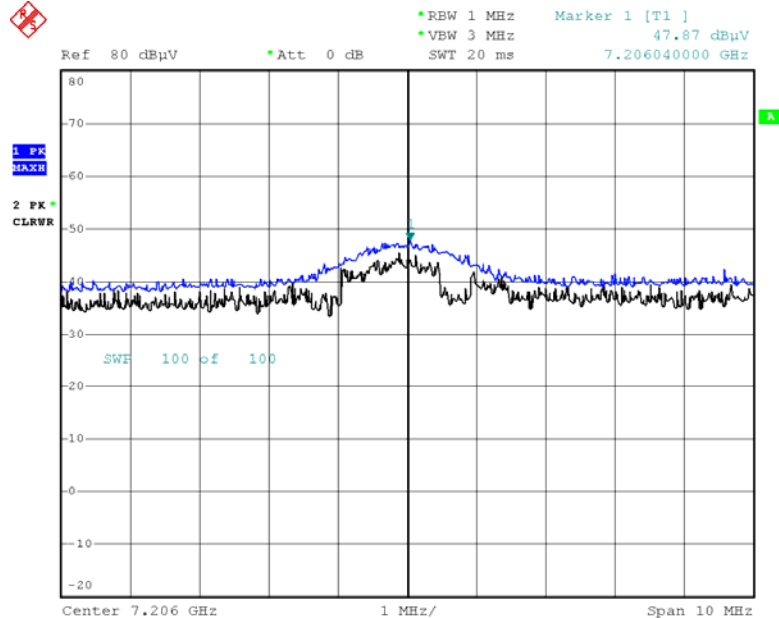
Radiated Spurious Emissions plot – Peak Reading (8DPSK, Ch.0 3rd Harmonic)



Date: 25.JUL.2019 14:48:17

Radiated Spurious Emissions plot – Average Reading (π /4DQPSK, Ch.0 3rd Harmonic)


Date: 25.JUL.2019 14:45:22

Radiated Spurious Emissions plot – Peak Reading (π /4DQPSK, Ch.0 3rd Harmonic)


Date: 25.JUL.2019 14:45:56

Note:

Plot of worst case are only reported.

10.6.3 RADIATED RESTRICTED BAND EDGES

Operation Mode	Normal(GFSK)
Operating Frequency	2402 MHz, 2480 MHz
Channel No	CH 0, CH 78

Frequency [MHz]	Reading [dBuV]	A.F + C.L + D.F -AMP+ATT [dB]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	27.29	0.22	H	0	27.51	73.98	46.47	PK
2390.0	14.33	0.22	H	-24.73	-10.18	53.98	64.16	AV
2390.0	27.50	0.22	V	0	27.72	73.98	46.26	PK
2390.0	14.35	0.22	V	-24.73	-10.16	53.98	64.14	AV
2483.5	34.89	0.65	H	0	35.54	73.98	38.44	PK
2483.5	32.05	0.65	H	-24.73	7.97	53.98	46.01	AV
2483.5	35.15	0.65	V	0	35.80	73.98	38.18	PK
2483.5	32.11	0.65	V	-24.73	8.03	53.98	45.95	AV

Operation Mode	EDR(8DPSK)
Operating Frequency	2402 MHz, 2480 MHz
Channel No	CH 0, CH 78

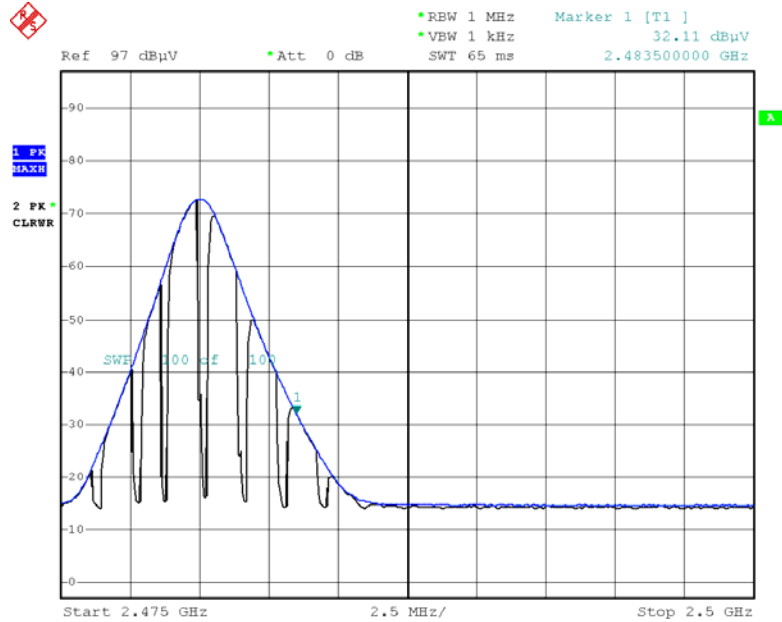
Frequency [MHz]	Reading [dBuV]	A.F + C.L + D.F -AMP+ATT [dB]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	25.75	0.22	H	0	25.97	73.98	48.01	PK
2390.0	14.39	0.22	H	-24.73	-10.12	53.98	64.10	AV
2390.0	25.81	0.22	V	0	26.03	73.98	47.95	PK
2390.0	14.44	0.22	V	-24.73	-10.07	53.98	64.05	AV
2483.5	34.21	0.65	H	0	34.86	73.98	39.12	PK
2483.5	29.33	0.65	H	-24.73	5.25	53.98	48.73	AV
2483.5	34.65	0.65	V	0	35.30	73.98	38.68	PK
2483.5	29.68	0.65	V	-24.73	5.60	53.98	48.38	AV

Operation Mode	EDR(π /4DQPSK)
Operating Frequency	2402 MHz, 2480 MHz
Channel No	CH 0, CH 78

Frequency [MHz]	Reading [dBuV]	A.F + C.L + D.F -AMP+ATT [dB]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	26.76	0.22	H	0	26.98	73.98	47.00	PK
2390.0	14.21	0.22	H	-24.73	-10.30	53.98	64.28	AV
2390.0	26.85	0.22	V	0	27.07	73.98	46.91	PK
2390.0	14.24	0.22	V	-24.73	-10.27	53.98	64.25	AV
2483.5	34.58	0.65	H	0	35.23	73.98	38.75	PK
2483.5	29.17	0.65	H	-24.73	5.09	53.98	48.89	AV
2483.5	34.81	0.65	V	0	35.46	73.98	38.52	PK
2483.5	29.58	0.65	V	-24.73	5.50	53.98	48.48	AV

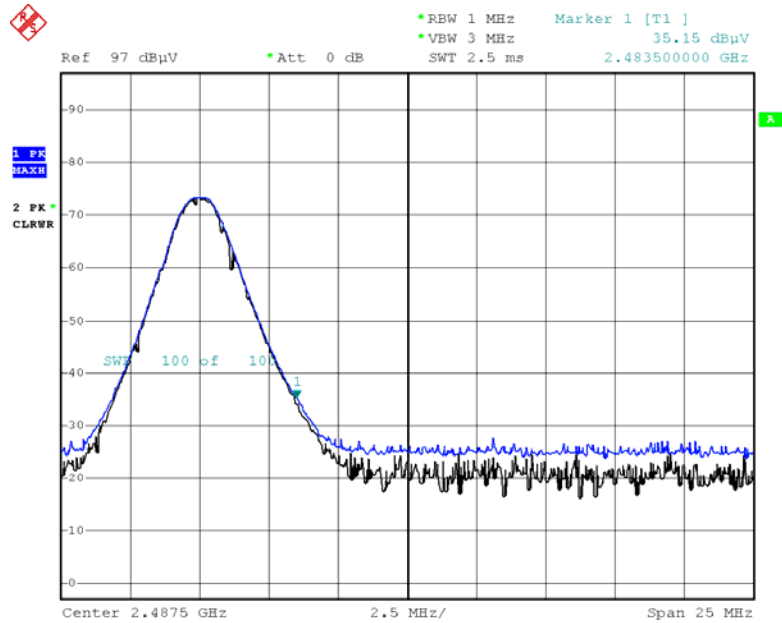
RESULT PLOTS (Worst case : Y-V)

Radiated Restricted Band Edges plot – Peak Reading (GFSK, Ch.78)



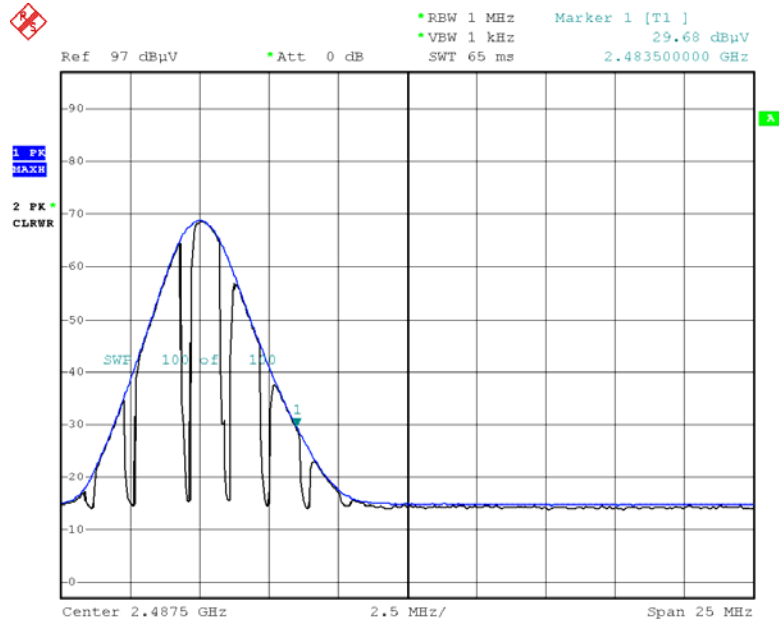
Date: 25.JUL.2019 13:22:48

Radiated Restricted Band Edges plot – Peak Reading (8DPSK, Ch.78)



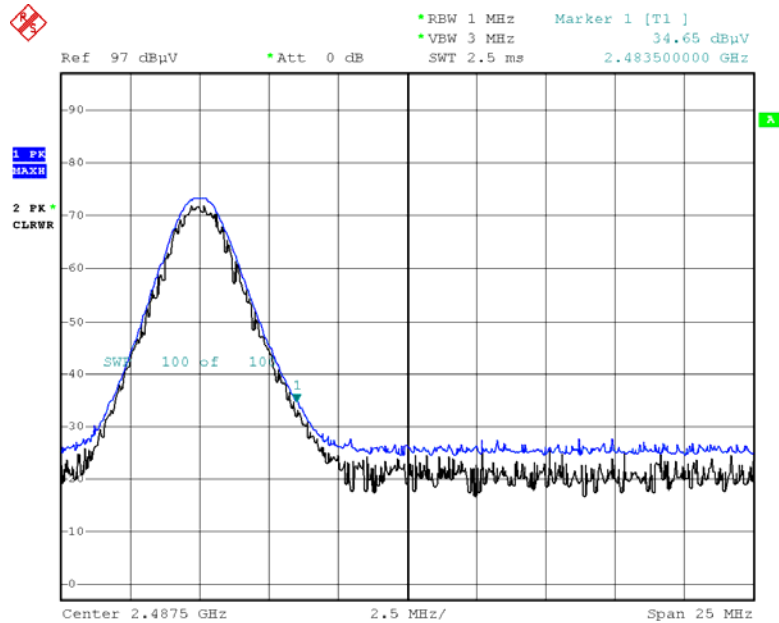
Date: 25.JUL.2019 13:23:23

Radiated Restricted Band Edges plot – Peak Reading (8DPSK, Ch.78)

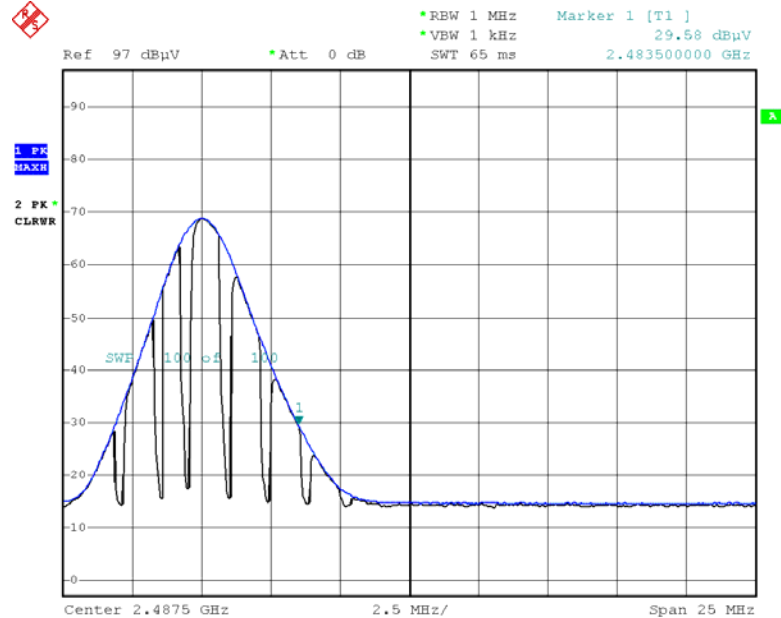


Date: 25.JUL.2019 13:28:24

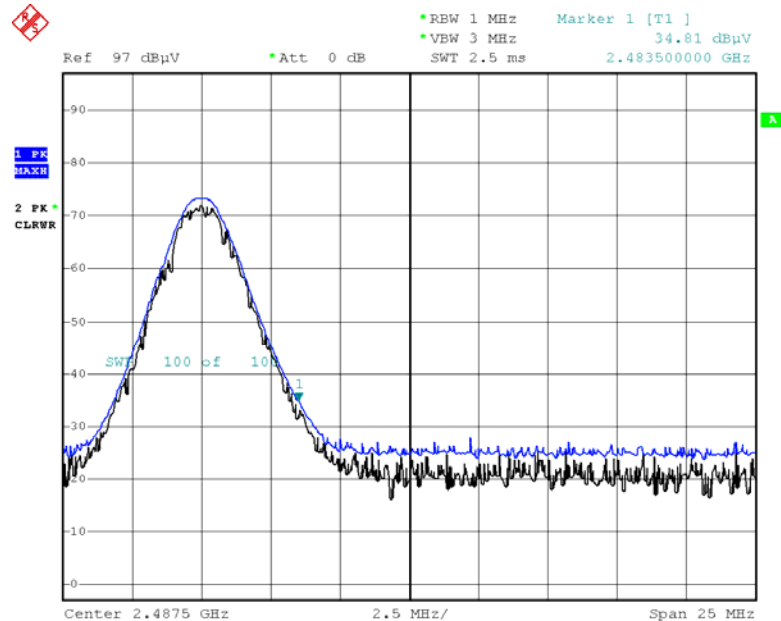
Radiated Restricted Band Edges plot – Peak Reading (8DPSK, Ch.78)



Date: 25.JUL.2019 13:28:55

Radiated Restricted Band Edges plot – Peak Reading (π /4DQPSK, Ch.78)


Date: 25.JUL.2019 13:25:39

Radiated Restricted Band Edges plot – Peak Reading (π /4DQPSK, Ch.78)


Date: 25.JUL.2019 13:25:14

Note:

Plot of worst case are only reported.

10.7 RECEIVER SPURIOUS EMISSIONS

Frequency Range : Below 1 GHz

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

Note:

1. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.

Frequency Range : Above 1 GHz

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

10.8 POWERLINE CONDUCTED EMISSIONS

Conducted Emissions (Line 1)

Test

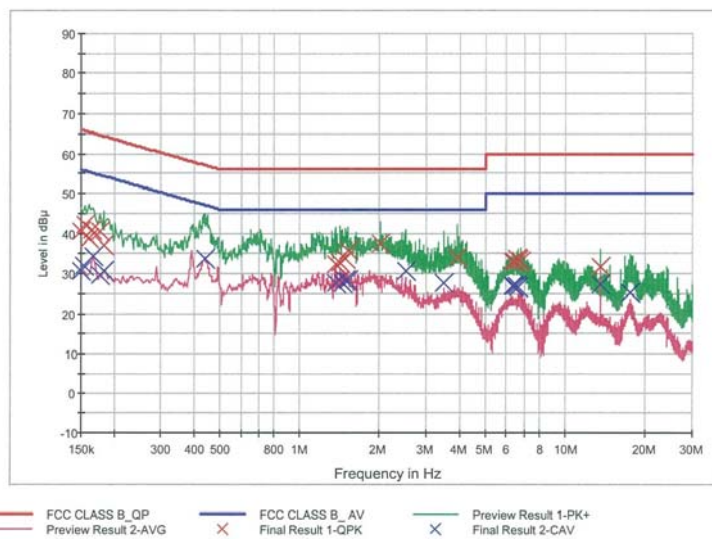
1 / 2

HCT TEST Report

Common Information

EUT: LGSBWAC94
 Manufacturer: LG Electronics, Inc.
 Test Site: SHIELD ROOM
 Operating Conditions: BT_L1

FCC CLASS B



Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	40.5	9.000	Off	L1	9.6	25.5	66.0
0.156000	42.3	9.000	Off	L1	9.6	23.4	65.7
0.160000	38.6	9.000	Off	L1	9.6	26.8	65.5
0.164000	40.7	9.000	Off	L1	9.6	24.5	65.3
0.176000	40.7	9.000	Off	L1	9.6	24.0	64.7
0.182000	37.2	9.000	Off	L1	9.6	27.2	64.4
1.362000	32.4	9.000	Off	L1	9.8	23.6	56.0
1.416000	32.8	9.000	Off	L1	9.8	23.2	56.0
1.492000	33.6	9.000	Off	L1	9.8	22.4	56.0
1.522000	35.8	9.000	Off	L1	9.8	20.2	56.0
2.014000	37.3	9.000	Off	L1	9.7	18.7	56.0
3.928000	34.2	9.000	Off	L1	9.8	21.8	56.0
6.352000	33.2	9.000	Off	L1	9.9	26.8	60.0
6.388000	33.2	9.000	Off	L1	9.9	26.8	60.0
6.554000	33.7	9.000	Off	L1	9.9	26.3	60.0
6.654000	33.5	9.000	Off	L1	9.9	26.6	60.0
6.756000	33.2	9.000	Off	L1	9.9	26.8	60.0
13.558000	31.6	9.000	Off	L1	10.0	28.4	60.0

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Test

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	30.8	9.000	Off	L1	9.6	25.2	56.0
0.154000	32.0	9.000	Off	L1	9.6	23.8	55.8
0.166000	34.5	9.000	Off	L1	9.6	20.6	55.2
0.176000	29.6	9.000	Off	L1	9.6	25.1	54.7
0.182000	30.8	9.000	Off	L1	9.6	23.6	54.4
0.438000	33.9	9.000	Off	L1	9.7	13.2	47.1
1.364000	27.7	9.000	Off	L1	9.8	18.3	46.0
1.444000	27.5	9.000	Off	L1	9.8	18.5	46.0
1.484000	28.3	9.000	Off	L1	9.8	17.7	46.0
1.522000	28.5	9.000	Off	L1	9.8	17.5	46.0
2.500000	30.8	9.000	Off	L1	9.8	15.2	46.0
3.476000	27.7	9.000	Off	L1	9.8	18.3	46.0
6.352000	26.9	9.000	Off	L1	9.9	23.1	50.0
6.388000	27.0	9.000	Off	L1	9.9	23.0	50.0
6.554000	26.8	9.000	Off	L1	9.9	23.2	50.0
6.652000	26.6	9.000	Off	L1	9.9	23.4	50.0
13.562000	27.4	9.000	Off	L1	10.0	22.6	50.0
17.478000	25.3	9.000	Off	L1	10.1	24.7	50.0

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Conducted Emissions (Line 2)

Test

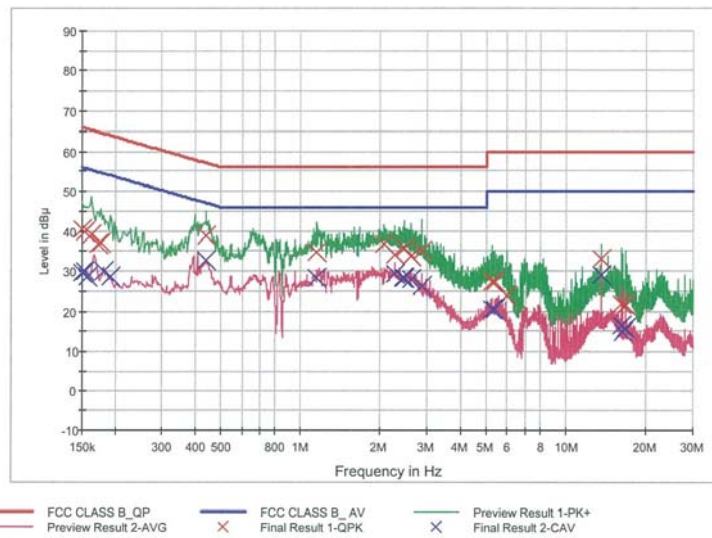
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HCT TEST Report

Common Information

EUT: LGSBWAC94
Manufacturer: LG Electronics, Inc.
Test Site: SHIELD ROOM
Operating Conditions: BT_N

FCC CLASS B



Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	40.5	9.000	Off	N	9.6	25.5	66.0
0.154000	39.9	9.000	Off	N	9.6	25.9	65.8
0.162000	39.0	9.000	Off	N	9.6	26.3	65.4
0.172000	36.9	9.000	Off	N	9.6	28.0	64.9
0.176000	37.0	9.000	Off	N	9.6	27.7	64.7
0.440000	38.8	9.000	Off	N	9.6	18.2	57.1
1.154000	34.6	9.000	Off	N	9.7	21.4	56.0
2.056000	36.7	9.000	Off	N	9.7	19.3	56.0
2.256000	34.0	9.000	Off	N	9.7	22.0	56.0
2.458000	35.8	9.000	Off	N	9.7	20.2	56.0
2.602000	33.6	9.000	Off	N	9.7	22.4	56.0
2.860000	34.9	9.000	Off	N	9.8	21.1	56.0
5.280000	27.2	9.000	Off	N	9.8	32.8	60.0
5.382000	27.2	9.000	Off	N	9.8	32.8	60.0
5.986000	23.9	9.000	Off	N	9.9	36.1	60.0
13.560000	32.9	9.000	Off	N	10.0	27.1	60.0
16.228000	22.0	9.000	Off	N	10.1	38.0	60.0
16.784000	21.4	9.000	Off	N	10.1	38.6	60.0

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Test

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	29.8	9.000	Off	N	9.6	26.2	56.0
0.154000	30.1	9.000	Off	N	9.6	25.7	55.8
0.158000	28.5	9.000	Off	N	9.6	27.0	55.6
0.180000	30.0	9.000	Off	N	9.6	24.5	54.5
0.192000	28.5	9.000	Off	N	9.6	25.4	53.9
0.440000	32.8	9.000	Off	N	9.6	14.2	47.1
1.154000	28.3	9.000	Off	N	9.7	17.7	46.0
2.256000	29.3	9.000	Off	N	9.7	16.7	46.0
2.418000	28.2	9.000	Off	N	9.7	17.8	46.0
2.458000	28.2	9.000	Off	N	9.7	17.8	46.0
2.602000	28.1	9.000	Off	N	9.7	17.9	46.0
2.860000	26.3	9.000	Off	N	9.8	19.7	46.0
5.280000	20.4	9.000	Off	N	9.8	29.6	50.0
5.382000	20.5	9.000	Off	N	9.8	29.5	50.0
13.560000	28.9	9.000	Off	N	10.0	21.1	50.0
16.228000	16.5	9.000	Off	N	10.1	33.5	50.0
16.240000	14.8	9.000	Off	N	10.1	35.2	50.0
16.784000	15.8	9.000	Off	N	10.1	34.2	50.0

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11. LIST OF TEST EQUIPMENT

Conducted Test

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Rohde & Schwarz	ENV216 / LISN	12/12/2018	Annual	102245
Rohde & Schwarz	ESCI / Test Receiver	06/18/2019	Annual	100033
ESPAC	SU-642 /Temperature Chamber	03/12/2019	Annual	0093008124
Agilent	N9020A / Signal Analyzer	05/23/2019	Annual	MY51110085
Agilent	N9030A / Signal Analyzer	01/10/2019	Annual	MY49431210
Agilent	N1911A / Power Meter	04/10/2019	Annual	MY45100523
Agilent	N1921A / Power Sensor	04/10/2019	Annual	MY52260025
Agilent	87300B / Directional Coupler	11/20/2018	Annual	3116A03621
Hewlett Packard	11667B / Power Splitter	05/24/2019	Annual	05001
Hewlett Packard	E3632A / DC Power Supply	06/18/2019	Annual	KR75303960
Agilent	8493C / Attenuator(10 dB)	07/02/2019	Annual	07560
Rohde & Schwarz	EMC32 / Software	N/A	N/A	N/A
HCT CO., LTD.	FCC WLAN&BT&BLE Conducted Test Software v3.0	N/A	N/A	N/A
Rohde & Schwarz	CBT / Bluetooth Tester	05/16/2019	Annual	100422

Note:

- Equipment listed above that calibrated during the testing period was set for test after the calibration.
- Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

Radiated Test

Manufacturer	Model / Equipment	Calibration Date	Calibration Interval	Serial No.
Innco system	CO3000 / Controller(Antenna mast)	N/A	N/A	CO3000-4p
Innco system	MA4640/800-XP-EP / Antenna Position Tower	N/A	N/A	N/A
Emco	2090 / Controller	N/A	N/A	060520
Ets	Turn Table	N/A	N/A	N/A
Rohde & Schwarz	Loop Antenna	08/23/2018	Biennial	1513-175
Schwarzbeck	VULB 9160 / Hybrid Antenna	08/09/2018	Biennial	3368
Schwarzbeck	BBHA 9120D / Horn Antenna	11/21/2017	Biennial	9120D-1191
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	12/04/2017	Biennial	BBHA9170541
Rohde & Schwarz	FSP(9 kHz ~ 30 GHz) / Spectrum Analyzer	09/19/2018	Annual	836650/016
Rohde & Schwarz	FSV40-N / Spectrum Analyzer	09/19/2018	Annual	101068-SZ
Wainwright Instruments	WHKX10-2700-3000-18000-40SS / High Pass Filter	01/03/2019	Annual	4
Wainwright Instruments	WHKX8-6090-7000-18000-40SS / High Pass Filter	01/03/2019	Annual	5
Wainwright Instruments	WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter	06/19/2019	Annual	2
Wainwright Instruments	WRCJV5100/5850-40/50-8EEK / Band Reject Filter	01/03/2019	Annual	2
Api tech.	18B-03 / Attenuator (3 dB)	06/04/2019	Annual	1
WEINSCHL	56-10 / Attenuator(10 dB)	10/10/2018	Annual	72316
CERNEX	CBLU1183540B-01/Broadband Bench Top LNA	01/03/2019	Annual	28549
CERNEX	CBL06185030 / Broadband Low Noise Amplifier	01/03/2019	Annual	24615
CERNEX	CBL18265035 / Power Amplifier	01/03/2019	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	06/18/2019	Annual	25956
TESCOM	TC-3000C / Bluetooth Tester	03/26/2019	Annual	3000C000276

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

12. ANNEX A_ TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-1908-FI002-P