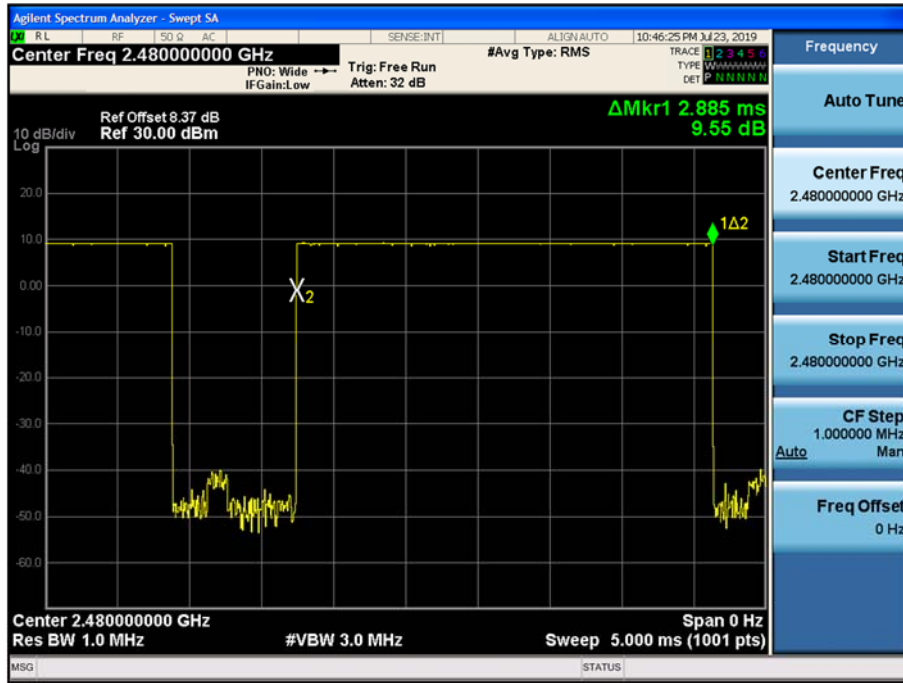


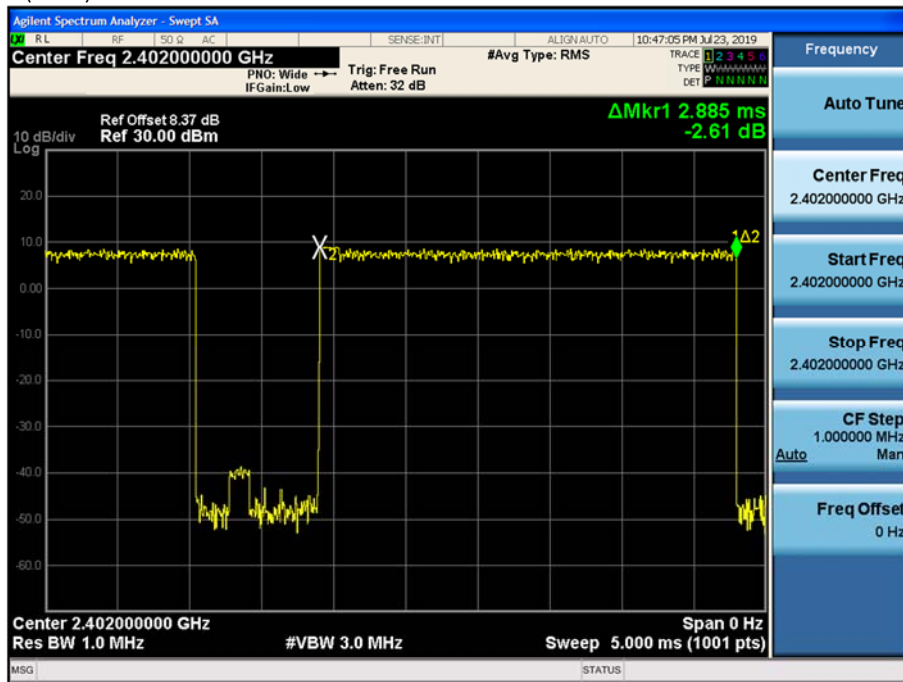
Test Plots (GFSK)

Dwell Time (CH.78)



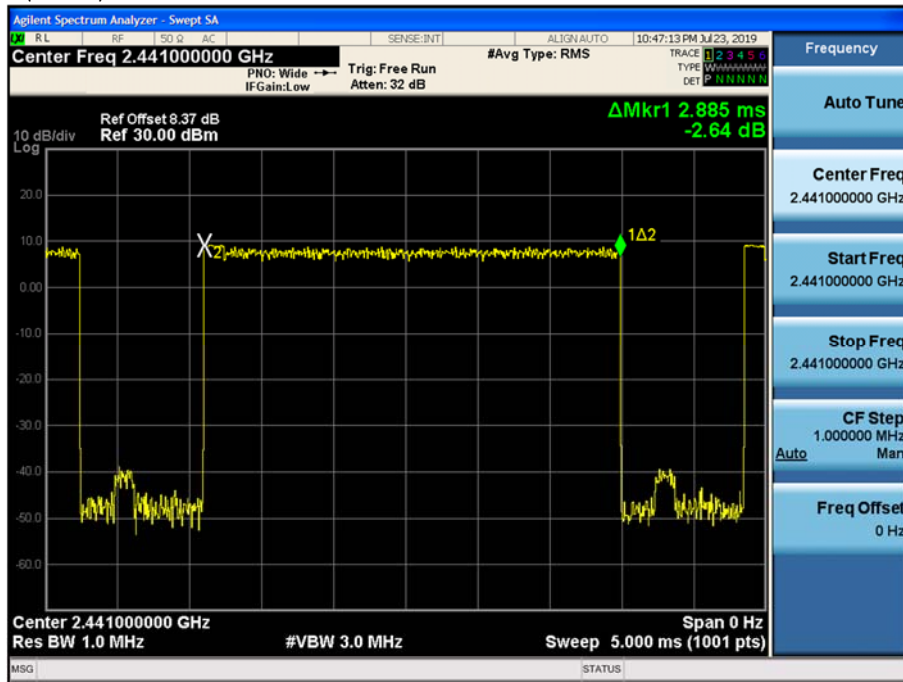
Test Plots (8DPSK)

Dwell Time (CH.0)



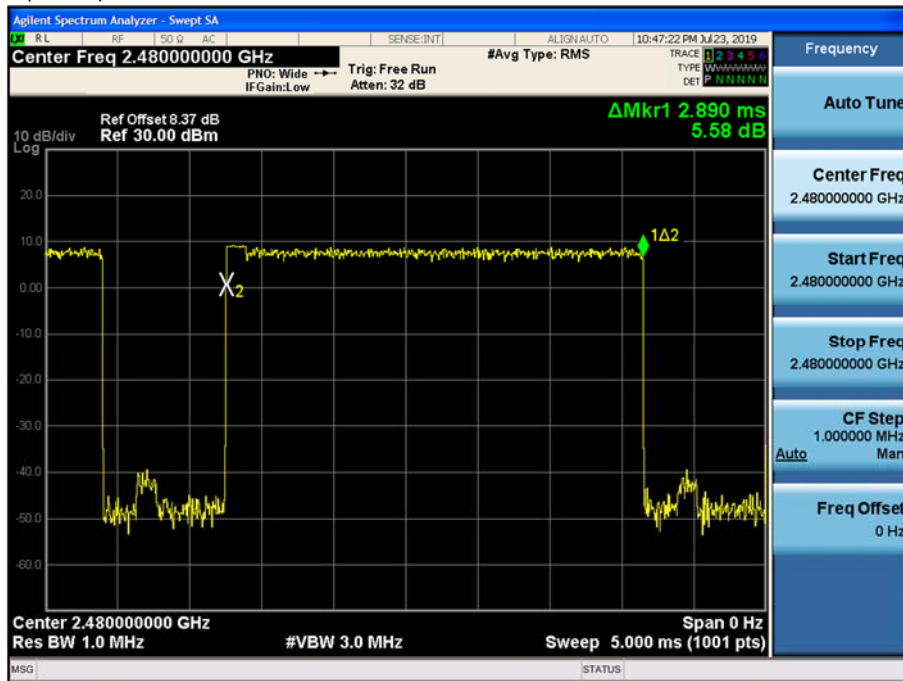
Test Plots (8DPSK)

Dwell Time (CH.39)



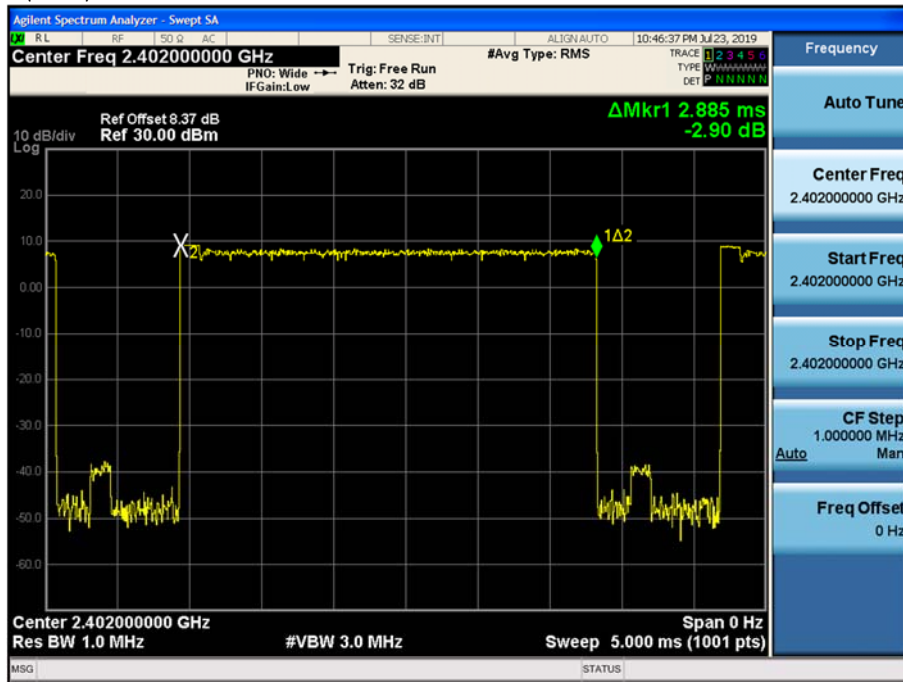
Test Plots (8DPSK)

Dwell Time (CH.78)



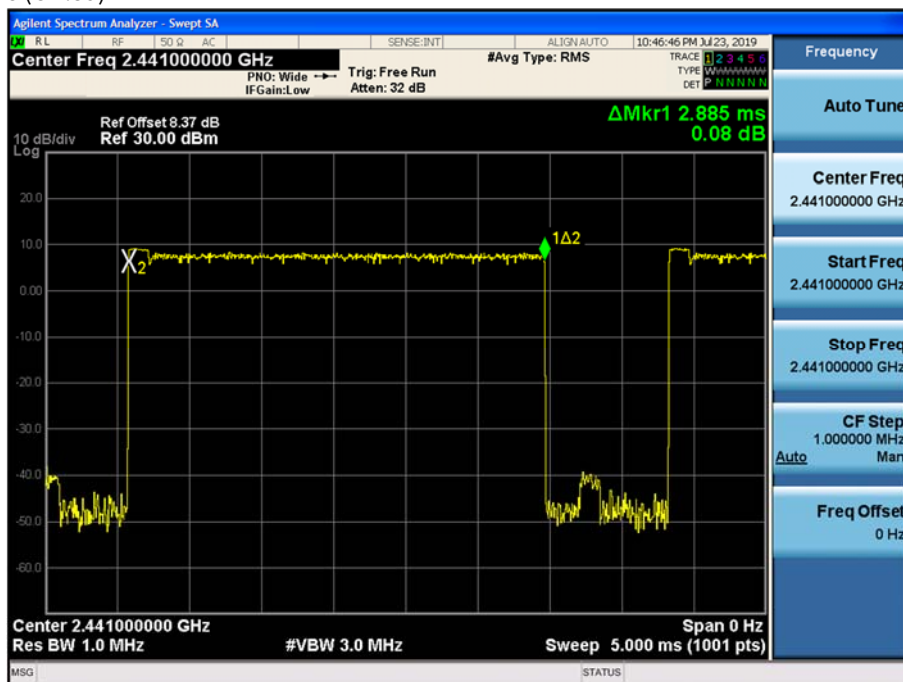
Test Plots ($\pi/4$ DQPSK)

Dwell Time (CH.0)



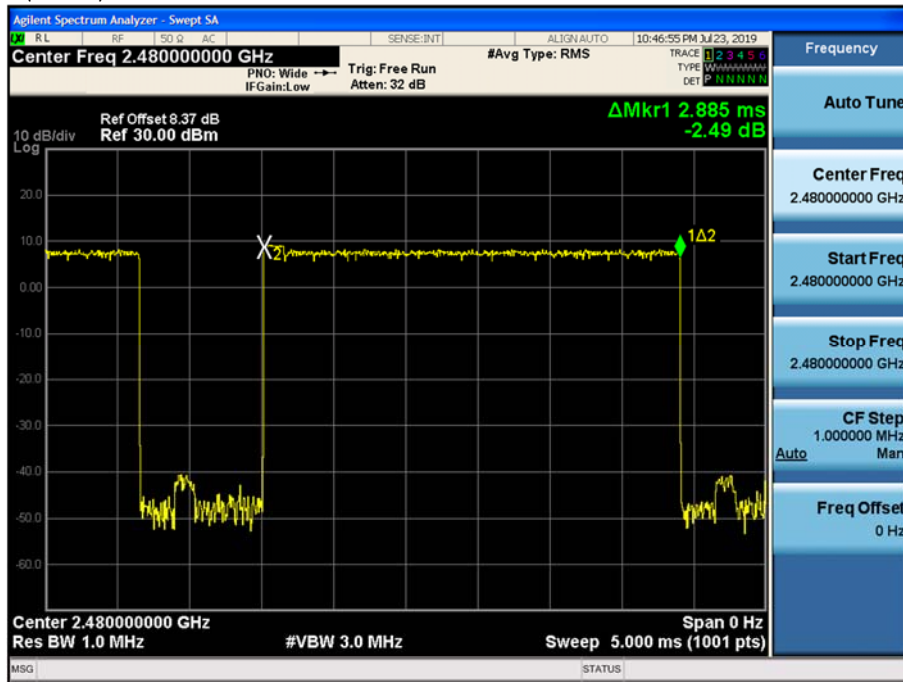
Test Plots ($\pi/4$ DQPSK)

Dwell Time (CH.39)



Test Plots ($\pi/4$ DQPSK)

Dwell Time (CH.78)



10.6 SPURIOUS EMISSIONS

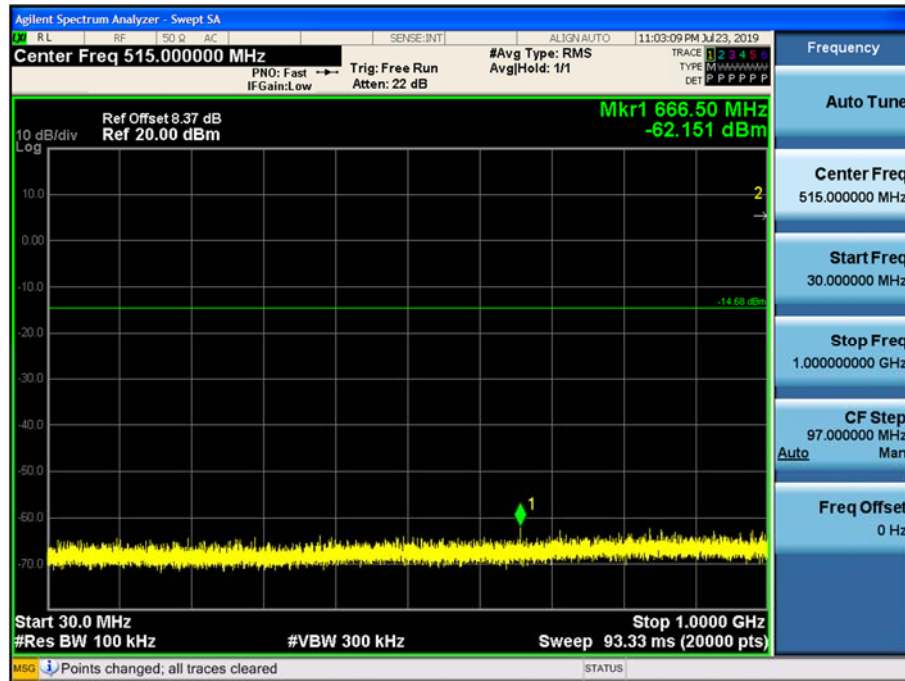
10.6.1 CONDUCTED SPURIOUS EMISSIONS

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.

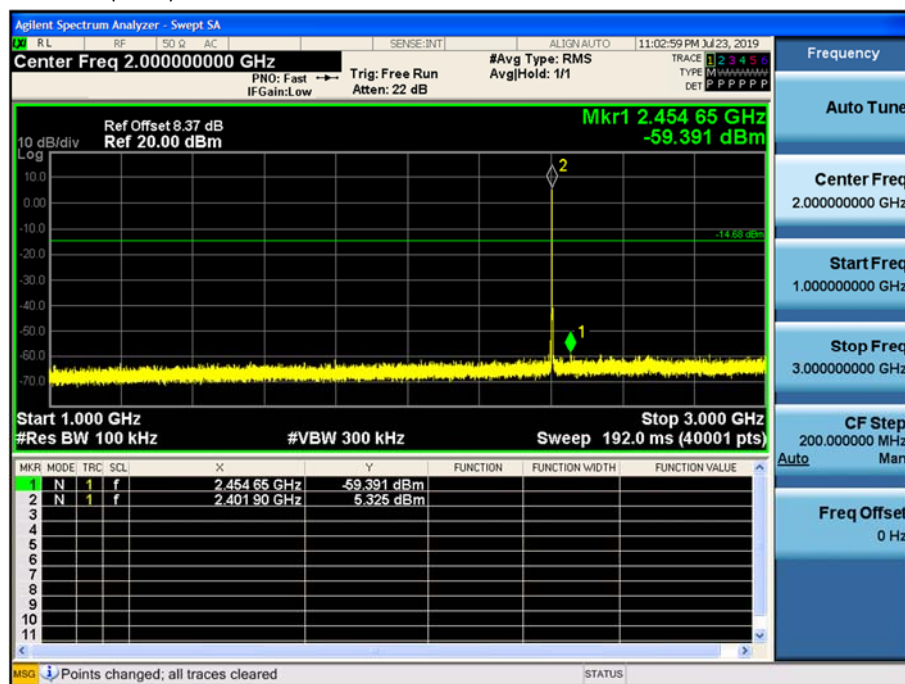
Test Plots (8DPSK)- 30 MHz - 1 GHz

Spurious Emission (CH.0)



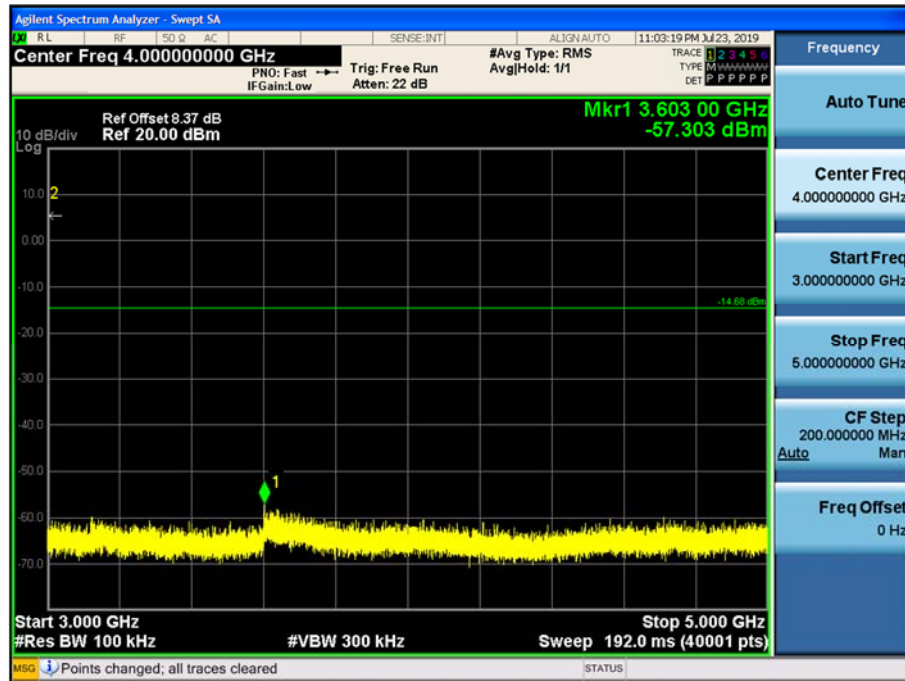
Test Plots (8DPSK)- 1 GHz – 3 GHz

Spurious Emission (CH.0)



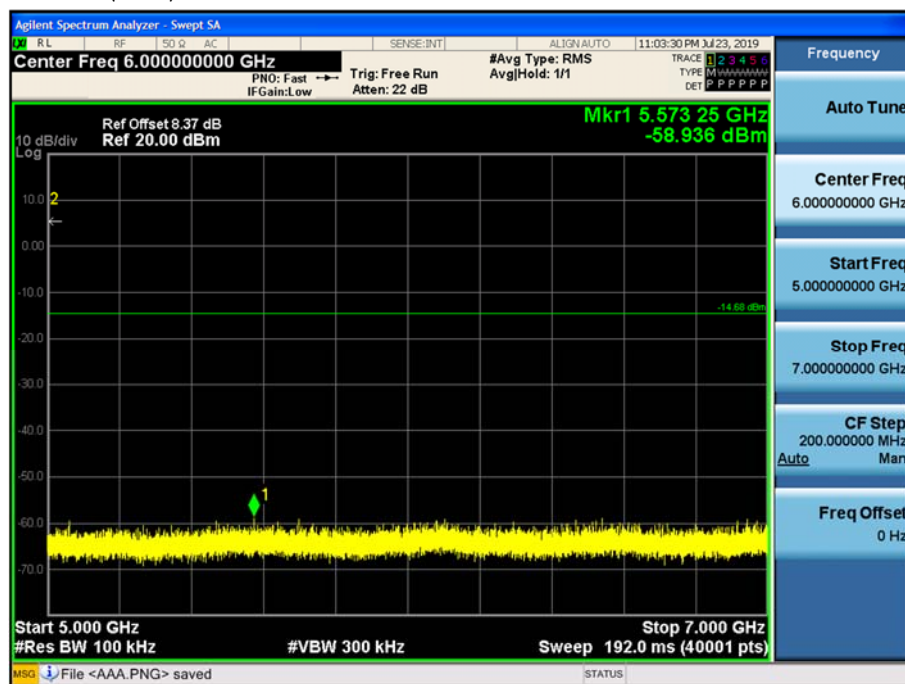
Test Plots(8DPSK)- 3 GHz - 5 GHz

Spurious Emission (CH.0)



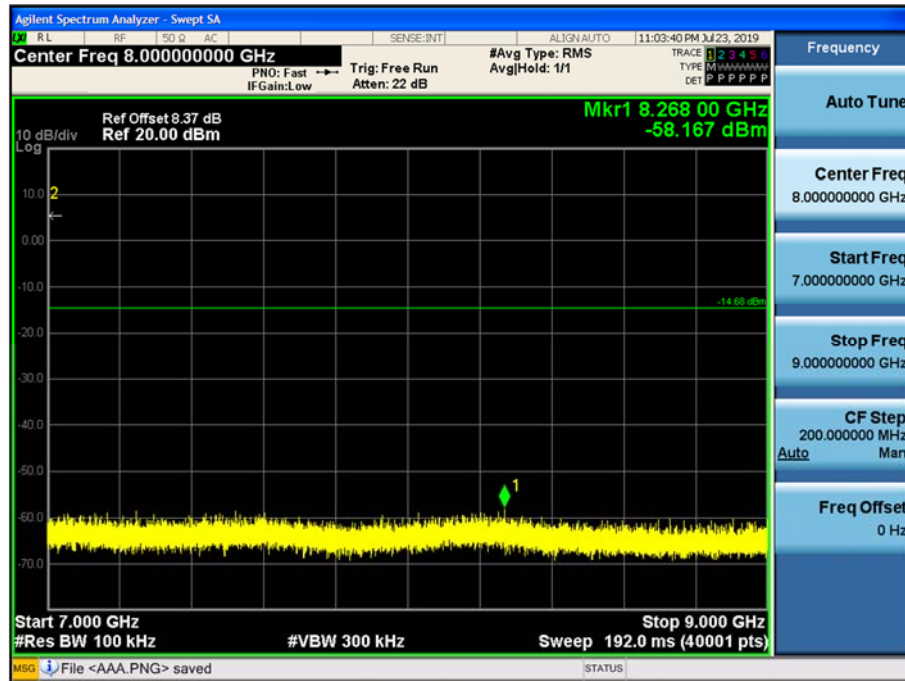
Test Plots (GFSK)- 5 GHz - 7 GHz

Spurious Emission (CH.0)



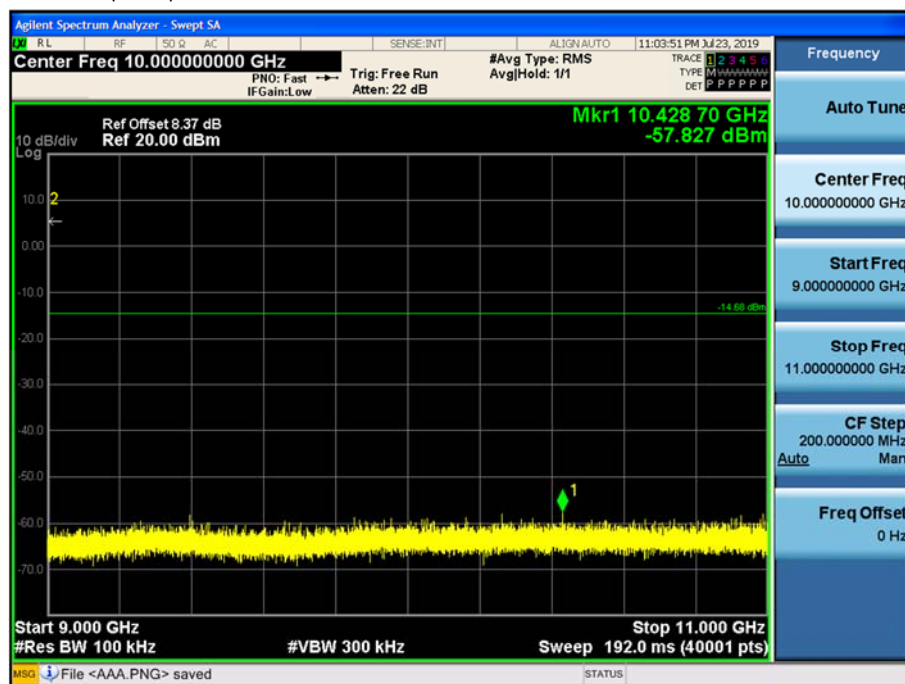
Test Plots(8DPSK)- 7 GHz - 9 GHz

Spurious Emission (CH.0)



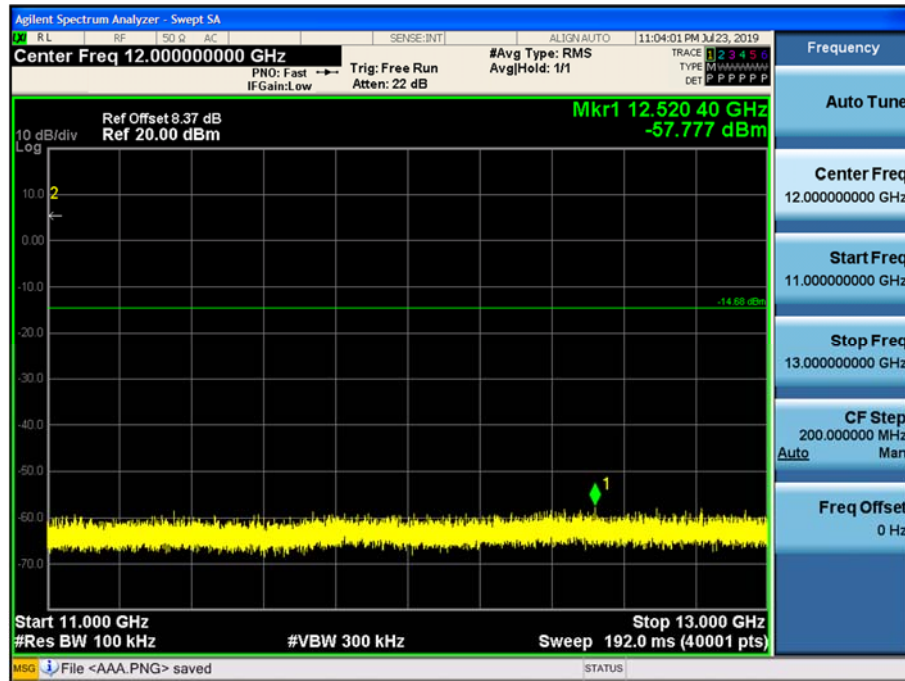
Test Plots(8DPSK)- 9 GHz - 11 GHz

Spurious Emission (CH.0)



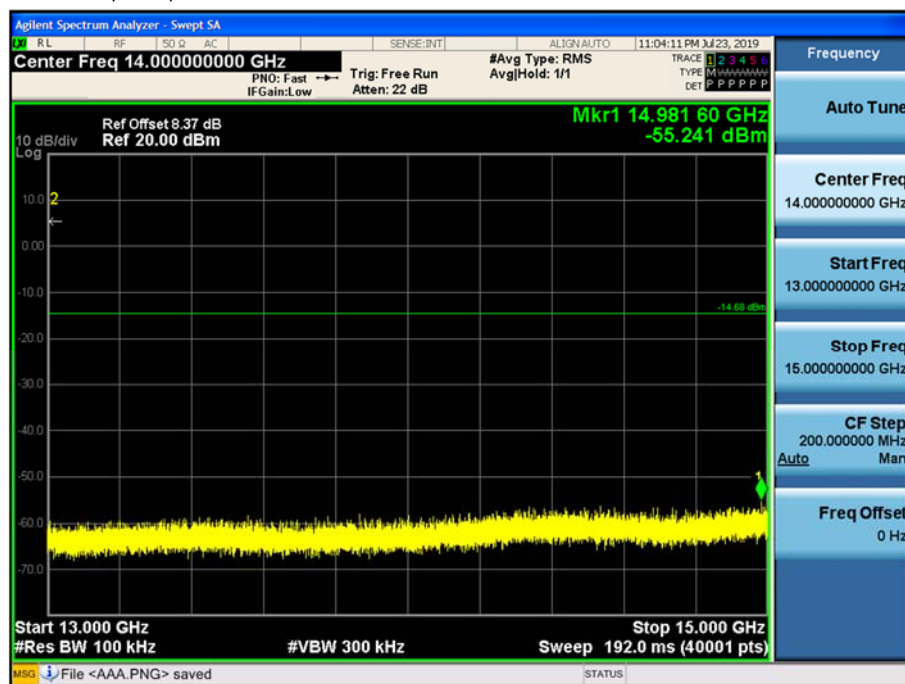
Test Plots(8DPSK) 11 GHz - 13 GHz

Spurious Emission (CH.0)



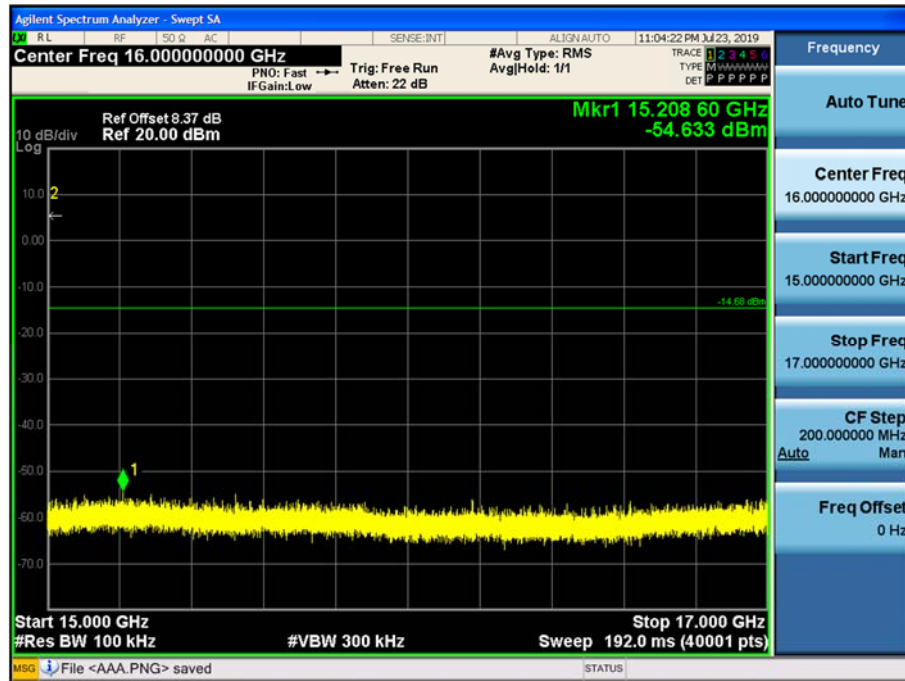
Test Plots (8DPSK)- 13 GHz – 15 GHz

Spurious Emission (CH.0)



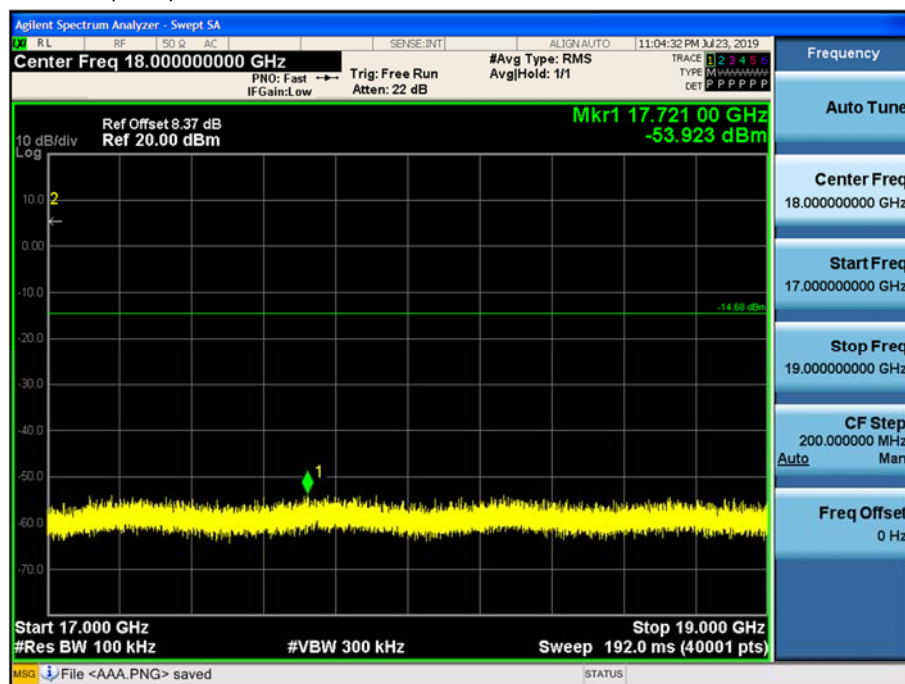
Test Plots(8DPSK)- 15 GHz - 17 GHz

Spurious Emission (CH.0)



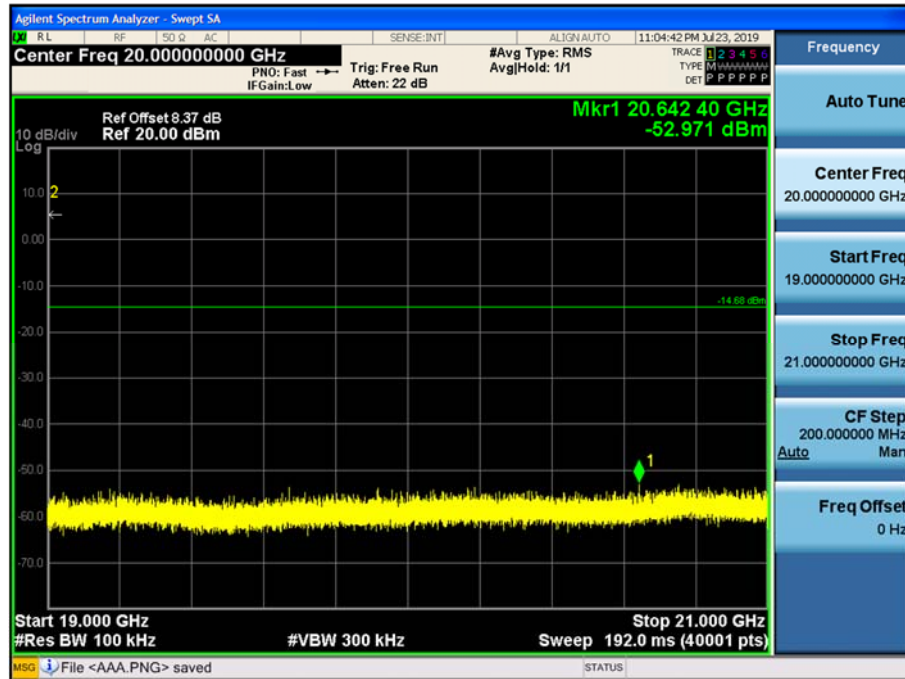
Test Plots(8DPSK)- 17 GHz - 19 GHz

Spurious Emission (CH.0)



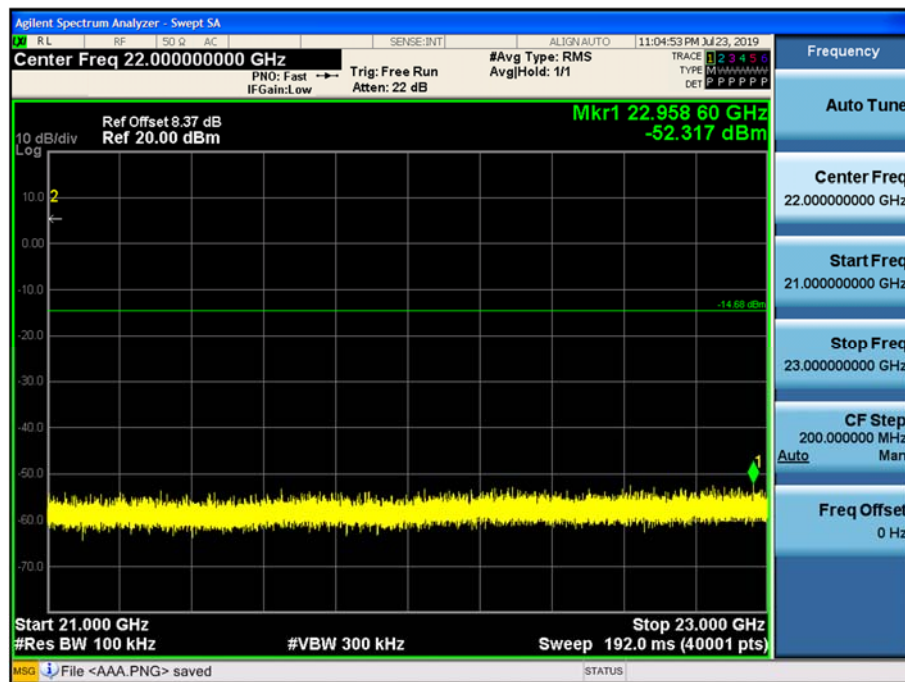
Test Plots (8DPSK)- 19 GHz - 21 GHz

Spurious Emission (CH.0)



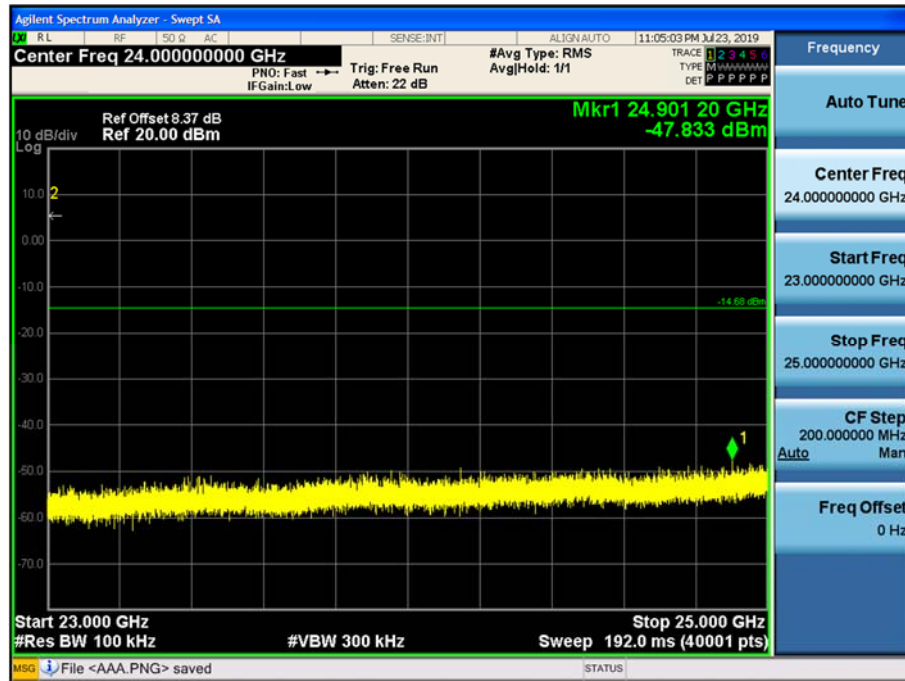
Test Plots (8DPSK)- 21 GHz - 23 GHz

Spurious Emission (CH.0)



Test Plots (8DPSK)- 23 GHz - 25 GHz

Spurious Emission (CH.0)



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	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4804	45.27	2.17	V	47.44	73.98	26.54	PK
4804	32.38	2.17	V	34.55	53.98	19.43	AV
7206	45.54	8.97	V	54.51	73.98	19.47	PK
7206	34.97	8.97	V	43.94	53.98	10.04	AV
4804	45.11	2.17	H	47.28	73.98	26.70	PK
4804	32.29	2.17	H	34.46	53.98	19.52	AV
7206	45.34	8.97	H	54.31	73.98	19.67	PK
7206	34.86	8.97	H	43.83	53.98	10.15	AV

Operation Mode: CH Low(8DPSK)

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4804	45.80	2.17	V	47.97	73.98	26.01	PK
4804	31.35	2.17	V	33.52	53.98	20.46	AV
7206	44.00	8.97	V	52.97	73.98	21.01	PK
7206	31.56	8.97	V	40.53	53.98	13.45	AV
4804	45.62	2.17	H	47.79	73.98	26.19	PK
4804	31.25	2.17	H	33.42	53.98	20.56	AV
7206	43.95	8.97	H	52.92	73.98	21.06	PK
7206	31.43	8.97	H	40.4	53.98	13.58	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4804	45.38	2.17	V	47.55	73.98	26.43	PK
4804	31.22	2.17	V	33.39	53.98	20.59	AV
7206	44.47	8.97	V	53.44	73.98	20.54	PK
7206	31.11	8.97	V	40.08	53.98	13.90	AV
4804	45.29	2.17	H	47.46	73.98	26.52	PK
4804	31.07	2.17	H	33.24	53.98	20.74	AV
7206	44.26	8.97	H	53.23	73.98	20.75	PK
7206	31.07	8.97	H	40.04	53.98	13.94	AV

Operation Mode: CH Mid(GFSK)

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4882	43.61	2.68	V	46.29	73.98	27.69	PK
4882	29.39	2.68	V	32.07	53.98	21.91	AV
7323	42.92	9.03	V	51.95	73.98	22.03	PK
7323	31.03	9.03	V	40.06	53.98	13.92	AV
4882	43.51	2.68	H	46.19	73.98	27.79	PK
4882	29.23	2.68	H	31.91	53.98	22.07	AV
7323	42.84	9.03	H	51.87	73.98	22.11	PK
7323	31.00	9.03	H	40.03	53.98	13.95	AV

Operation Mode: CH Mid(8DPSK)

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4882	42.66	2.68	V	45.34	73.98	28.64	PK
4882	29.78	2.68	V	32.46	53.98	21.52	AV
7323	41.34	9.03	V	50.37	73.98	23.61	PK
7323	27.86	9.03	V	36.89	53.98	17.09	AV
4882	42.59	2.68	H	45.27	73.98	28.71	PK
4882	29.71	2.68	H	32.39	53.98	21.59	AV
7323	41.22	9.03	H	50.25	73.98	23.73	PK
7323	27.81	9.03	H	36.84	53.98	17.14	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4882	42.76	2.68	V	45.44	73.98	28.54	PK
4882	29.45	2.68	V	32.13	53.98	21.85	AV
7323	41.44	9.03	V	50.47	73.98	23.51	PK
7323	27.90	9.03	V	36.93	53.98	17.05	AV
4882	42.58	2.68	H	45.26	73.98	28.72	PK
4882	29.29	2.68	H	31.97	53.98	22.01	AV
7323	41.06	9.03	H	50.09	73.98	23.89	PK
7323	27.54	9.03	H	36.57	53.98	17.41	AV

Operation Mode: CH High(GFSK)

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4960	43.25	1.54	V	44.79	73.98	29.19	PK
4960	29.53	1.54	V	31.07	53.98	22.91	AV
7440	40.60	9.82	V	50.42	73.98	23.56	PK
7440	27.82	9.82	V	37.64	53.98	16.34	AV
4960	43.11	1.54	H	44.65	73.98	29.33	PK
4960	29.46	1.54	H	31.00	53.98	22.98	AV
7440	40.51	9.82	H	50.33	73.98	23.65	PK
7440	27.76	9.82	H	37.58	53.98	16.40	AV

Operation Mode: CH High(8DPSK)

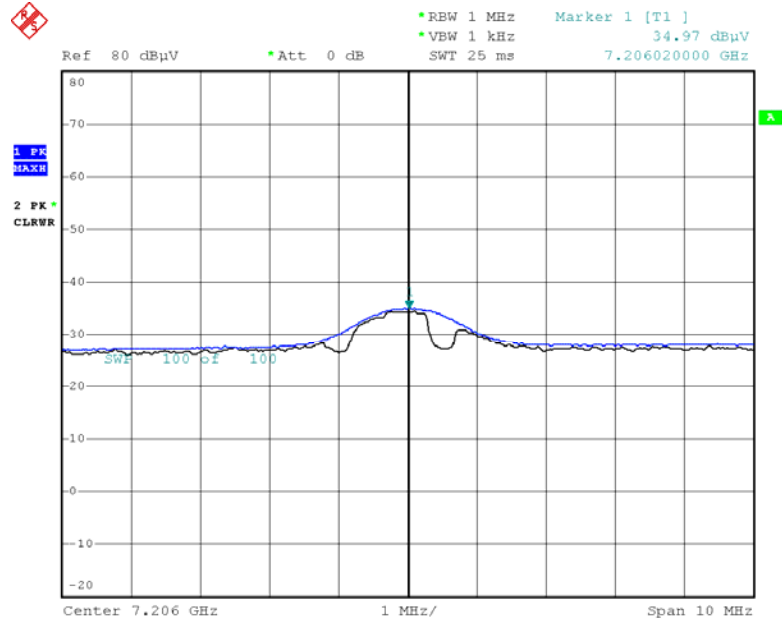
Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4960	43.11	1.54	V	44.65	73.98	29.33	PK
4960	29.46	1.54	V	31.00	53.98	22.98	AV
7440	40.87	9.82	V	50.69	73.98	23.29	PK
7440	27.21	9.82	V	37.03	53.98	16.95	AV
4960	43.05	1.54	H	44.59	73.98	29.39	PK
4960	29.42	1.54	H	30.96	53.98	23.02	AV
7440	40.76	9.82	H	50.58	73.98	23.40	PK
7440	27.18	9.82	H	37.00	53.98	16.98	AV

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

Frequency [MHz]	Reading dBuV	AN.+CL-AMP G [dB]	ANT. POL [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
4960	43.04	1.54	V	44.58	73.98	29.40	PK
4960	29.58	1.54	V	31.12	53.98	22.86	AV
7440	40.90	9.82	V	50.72	73.98	23.26	PK
7440	27.29	9.82	V	37.11	53.98	16.87	AV
4960	42.94	1.54	H	44.48	73.98	29.50	PK
4960	29.47	1.54	H	31.01	53.98	22.97	AV
7440	40.84	9.82	H	50.66	73.98	23.32	PK
7440	27.11	9.82	H	36.93	53.98	17.05	AV

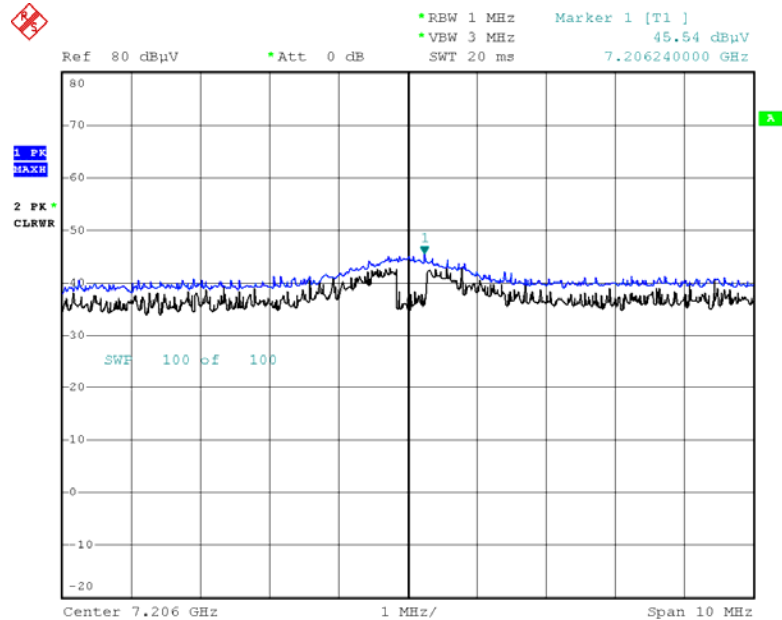
RESULT PLOTS (Worst case : Y-V)

Radiated Spurious Emissions plot – Average Reading (GFSK, Ch.78 3rd Harmonic)



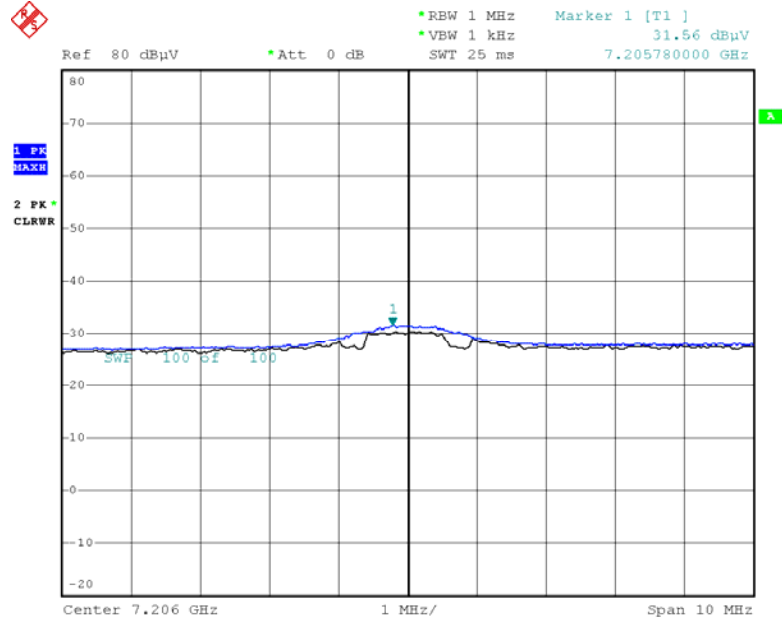
Date: 23.JUL.2019 08:34:58

Radiated Spurious Emissions plot – Peak Reading (GFSK, Ch.78 3rd Harmonic)



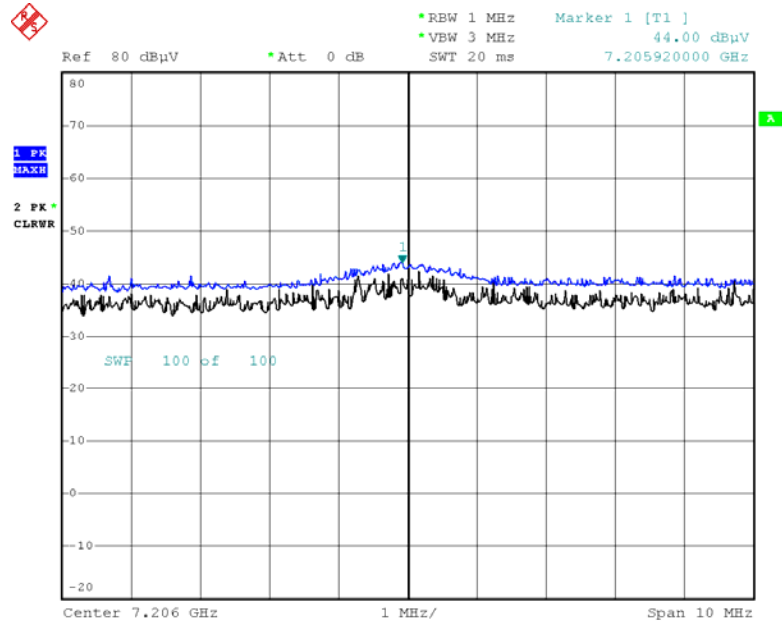
Date: 23.JUL.2019 08:36:14

Radiated Spurious Emissions plot – Average Reading (8DPSK, Ch.78 3rd Harmonic)



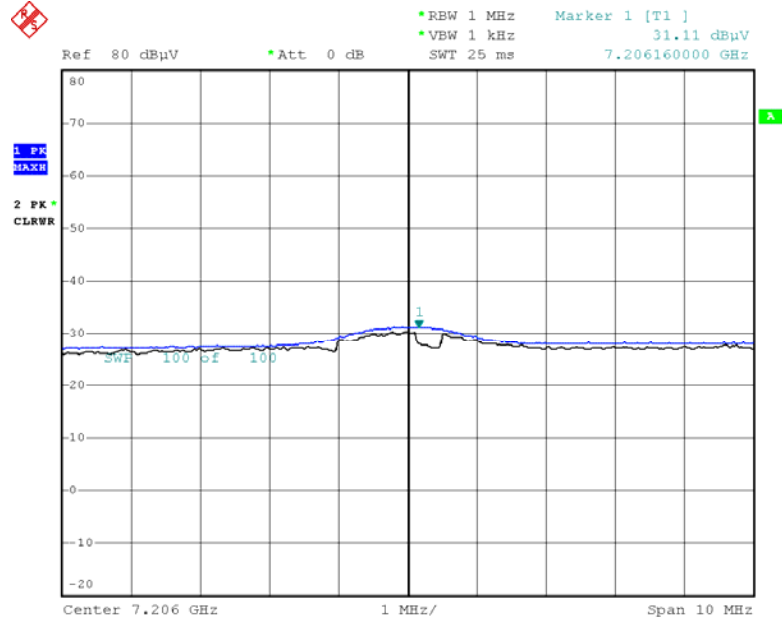
Date: 23.JUL.2019 08:46:42

Radiated Spurious Emissions plot – Peak Reading (8DPSK, Ch.78 3rd Harmonic)



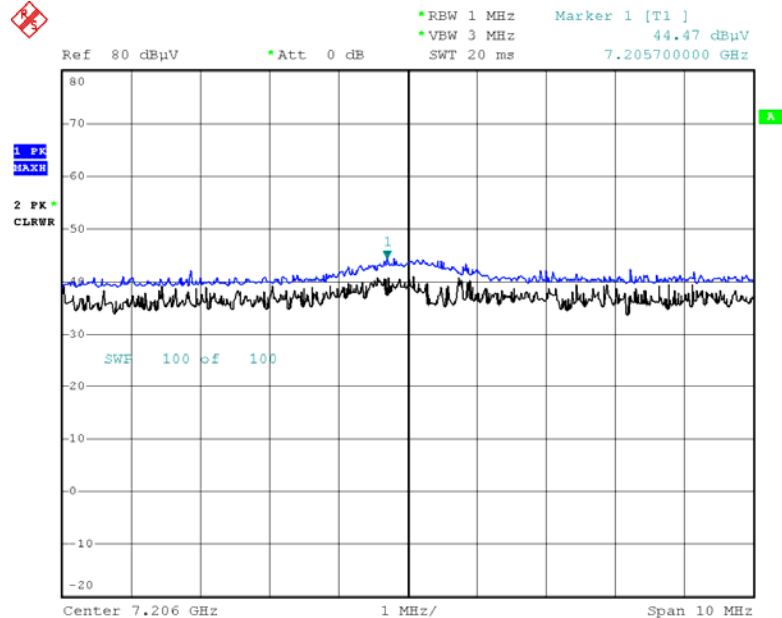
Date: 23.JUL.2019 08:47:16

Radiated Spurious Emissions plot – Average Reading (π /4DQPSK, Ch.78 3rd Harmonic)



Date: 23.JUL.2019 08:41:32

Radiated Spurious Emissions plot – Peak Reading (π /4DQPSK, Ch.78 3rd Harmonic)



Date: 23.JUL.2019 08:42:25

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.+CL [dB]	ANT. POL [H/V]	Duty Cycle Correction [dB]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
2390.0	26.89	0.22	H	0	27.11	73.98	46.87	PK
2390.0	14.26	0.22	H	-24.73	-10.25	53.98	64.23	AV
2390.0	26.97	0.22	V	0	27.19	73.98	46.79	PK
2390.0	14.29	0.22	V	-24.73	-10.22	53.98	64.20	AV
2483.5	30.39	0.65	H	0	31.04	73.98	42.94	PK
2483.5	25.84	0.65	H	-24.73	1.76	53.98	52.22	AV
2483.5	32.45	0.65	V	0	33.10	73.98	40.88	PK
2483.5	28.55	0.65	V	-24.73	4.47	53.98	49.51	AV

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

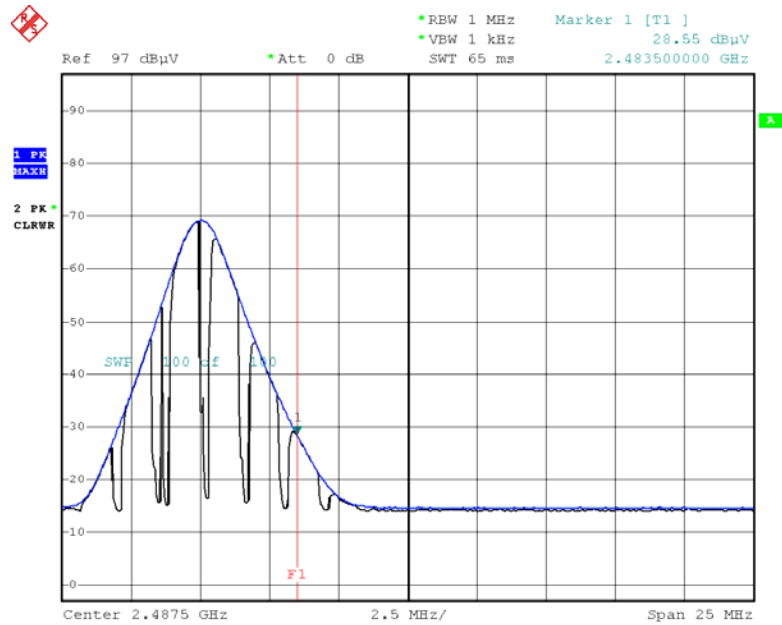
Frequency [MHz]	Reading dBuV	※ A.F.+CL [dB]	ANT. POL [H/V]	Duty Cycle Correction [dB]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
2390.0	26.80	0.22	H	0	27.02	73.98	46.96	PK
2390.0	14.22	0.22	H	-24.73	-10.29	53.98	64.27	AV
2390.0	26.79	0.22	V	0	27.01	73.98	46.97	PK
2390.0	14.27	0.22	V	-24.73	-10.24	53.98	64.22	AV
2483.5	30.41	0.65	H	0	31.06	73.98	42.92	PK
2483.5	24.18	0.65	H	-24.73	0.10	53.98	53.88	AV
2483.5	30.43	0.65	V	0	31.08	73.98	42.90	PK
2483.5	24.21	0.65	V	-24.73	0.13	53.98	53.85	AV

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

Frequency [MHz]	Reading dBuV	※ A.F.+CL [dB]	ANT. POL [H/V]	Duty Cycle Correction [dB]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Detect
2390.0	26.78	0.22	H	0	27.00	73.98	46.98	PK
2390.0	14.27	0.22	H	-24.73	-10.24	53.98	64.22	AV
2390.0	26.84	0.22	V	0	27.06	73.98	46.92	PK
2390.0	14.32	0.22	V	-24.73	-10.19	53.98	64.17	AV
2483.5	30.15	0.65	H	0	30.80	73.98	43.18	PK
2483.5	24.58	0.65	H	-24.73	0.50	53.98	53.48	AV
2483.5	30.34	0.65	V	0	30.99	73.98	42.99	PK
2483.5	24.63	0.65	V	-24.73	0.55	53.98	53.43	AV

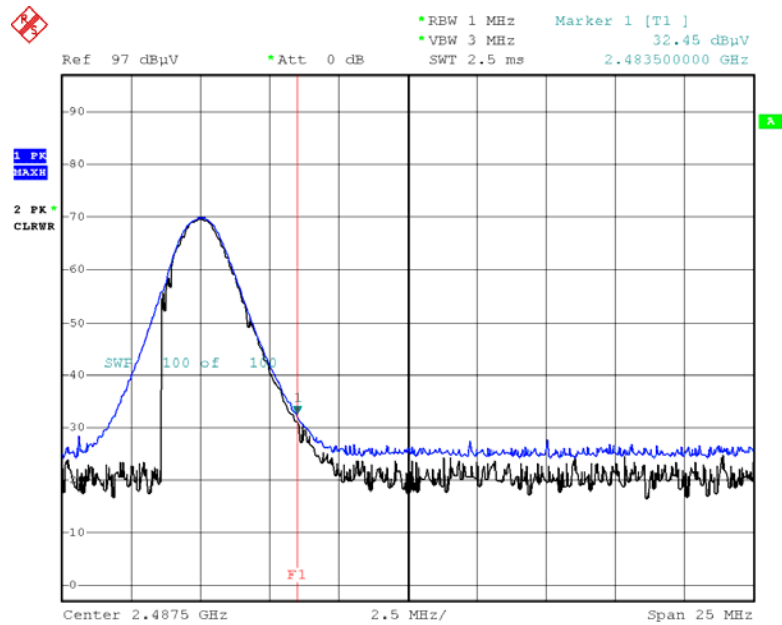
RESULT PLOTS (Worst case : Y-V)

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



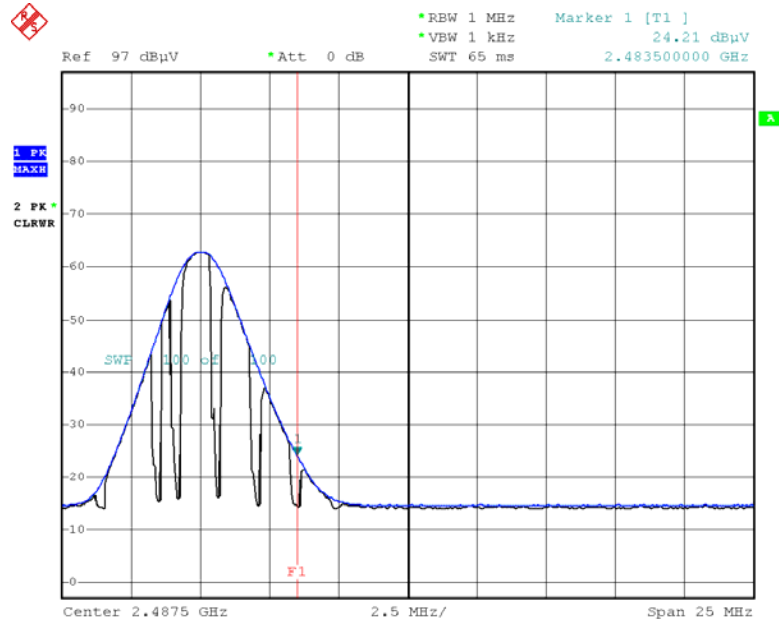
Date: 23.JUL.2019 05:03:07

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



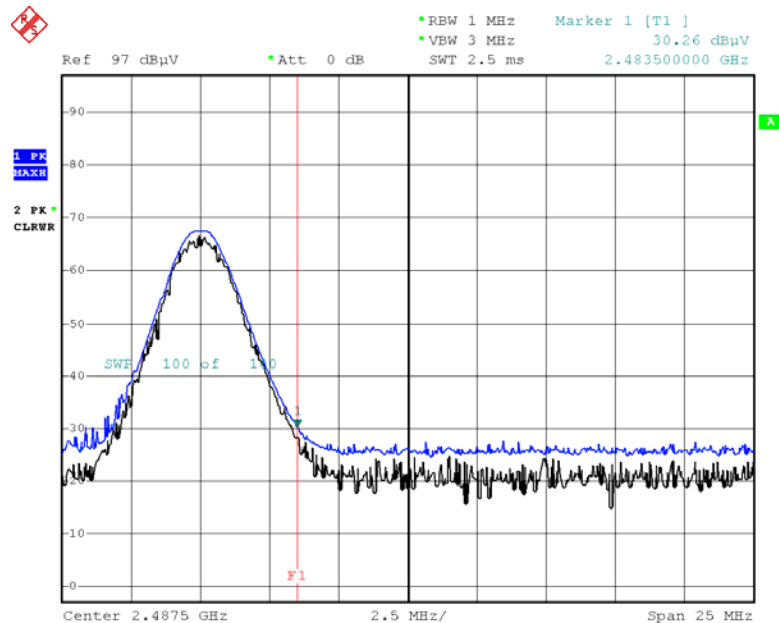
Date: 23.JUL.2019 05:04:04

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



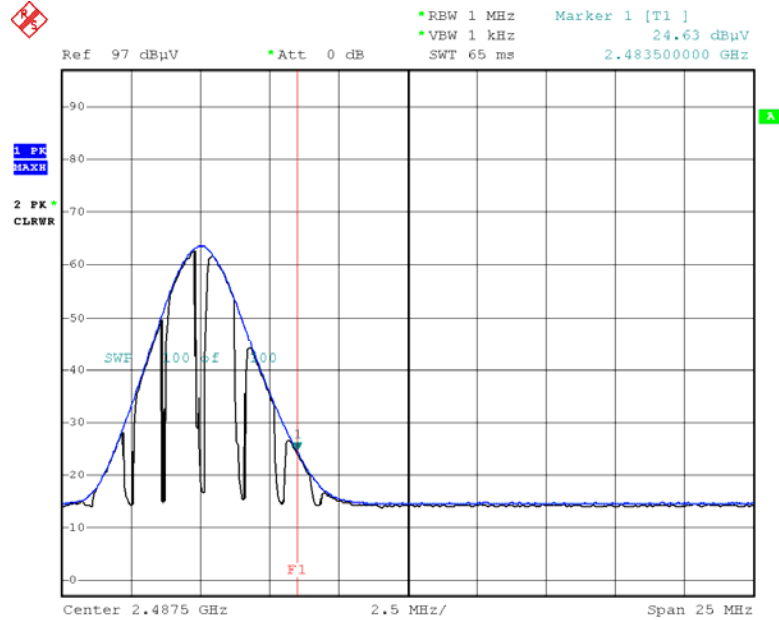
Date: 23.JUL.2019 07:01:09

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



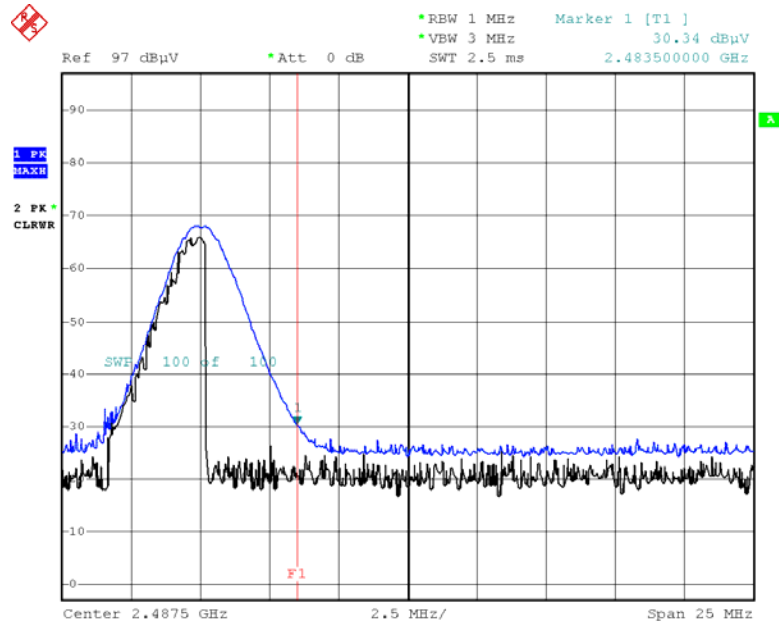
Date: 23.JUL.2019 07:01:56

Radiated Restricted Band Edges plot – Average Reading ($\pi/4$ DQPSK, Ch.78)



Date: 23.JUL.2019 06:59:26

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



Date: 23.JUL.2019 07:00:05

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

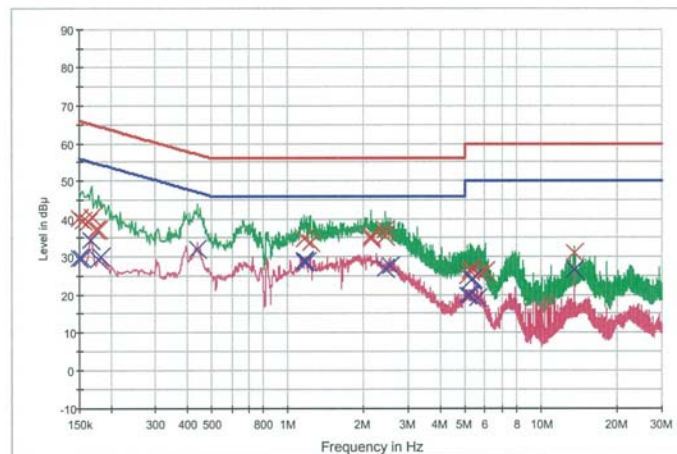
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HCT TEST Report

Common Information

EUT: LGSBWAC02
 Manufacturer: LG Electronics, Inc.
 Test Site: SHIELD ROOM
 Operating Conditions: BT_L1

FCC CLASS B



— FCC CLASS B_QP — FCC CLASS B_AV — Preview Result 1-PK+
 — Preview Result 2-AVG x Final Result 1-QPK x Final Result 2-CAV

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	40.2	9.000	Off	L1	9.6	25.8	66.0
0.156000	39.4	9.000	Off	L1	9.6	26.2	65.7
0.162000	39.2	9.000	Off	L1	9.6	26.2	65.4
0.168000	40.4	9.000	Off	L1	9.6	24.7	65.1
0.174000	37.1	9.000	Off	L1	9.6	27.7	64.8
0.178000	37.0	9.000	Off	L1	9.6	27.6	64.6
1.160000	34.6	9.000	Off	L1	9.7	21.4	56.0
1.236000	33.9	9.000	Off	L1	9.7	22.1	56.0
2.130000	34.8	9.000	Off	L1	9.7	21.2	56.0
2.134000	35.3	9.000	Off	L1	9.7	20.7	56.0
2.428000	35.4	9.000	Off	L1	9.8	20.6	56.0
2.434000	37.0	9.000	Off	L1	9.8	19.0	56.0
5.158000	25.0	9.000	Off	L1	9.8	35.0	60.0
5.260000	26.3	9.000	Off	L1	9.9	33.7	60.0
5.288000	26.9	9.000	Off	L1	9.9	33.1	60.0
5.704000	25.7	9.000	Off	L1	9.9	34.3	60.0
6.062000	26.4	9.000	Off	L1	9.9	33.6	60.0
13.560000	31.2	9.000	Off	L1	10.0	28.8	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	29.6	9.000	Off	L1	9.6	26.4	56.0
0.154000	29.7	9.000	Off	L1	9.6	26.1	55.8
0.166000	34.2	9.000	Off	L1	9.6	20.9	55.2
0.178000	29.5	9.000	Off	L1	9.6	25.1	54.6
0.182000	30.0	9.000	Off	L1	9.6	24.4	54.4
0.440000	32.0	9.000	Off	L1	9.7	15.1	47.1
1.160000	28.6	9.000	Off	L1	9.7	17.4	46.0
1.166000	29.1	9.000	Off	L1	9.7	16.9	46.0
1.184000	28.8	9.000	Off	L1	9.7	17.2	46.0
2.426000	27.0	9.000	Off	L1	9.8	19.0	46.0
2.434000	27.0	9.000	Off	L1	9.8	19.0	46.0
2.534000	27.8	9.000	Off	L1	9.8	18.2	46.0
5.158000	19.7	9.000	Off	L1	9.8	30.3	50.0
5.258000	19.9	9.000	Off	L1	9.9	30.1	50.0
5.288000	23.8	9.000	Off	L1	9.9	26.2	50.0
5.360000	24.3	9.000	Off	L1	9.9	25.7	50.0
5.660000	19.1	9.000	Off	L1	9.9	30.9	50.0
13.560000	26.7	9.000	Off	L1	10.0	23.3	50.0

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Conducted Emissions (Line 2)

Test

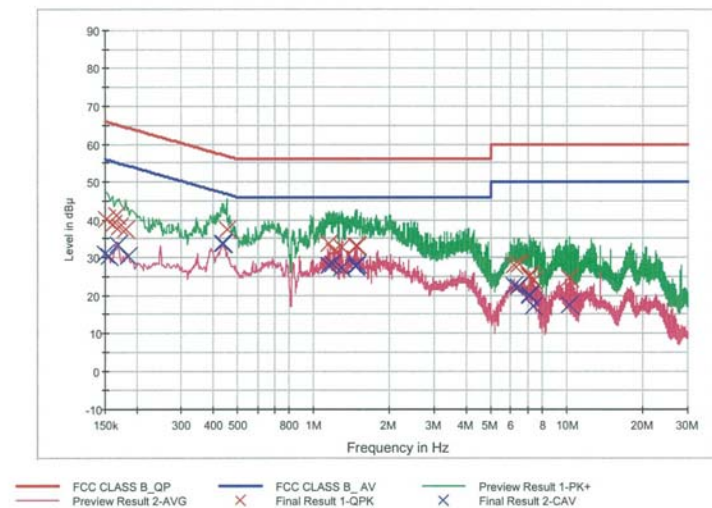
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HCT TEST Report

Common Information

EUT: LGSBWAC02
 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)
0.152000	40.2	9.000	Off	N	9.6	25.7	65.9
0.160000	38.8	9.000	Off	N	9.6	26.7	65.5
0.166000	41.2	9.000	Off	N	9.6	24.0	65.2
0.170000	38.2	9.000	Off	N	9.6	26.8	65.0
0.180000	37.3	9.000	Off	N	9.6	27.1	64.5
0.454000	37.3	9.000	Off	N	9.6	19.5	56.8
1.150000	33.7	9.000	Off	N	9.7	22.3	56.0
1.198000	31.9	9.000	Off	N	9.7	24.1	56.0
1.286000	32.7	9.000	Off	N	9.7	23.3	56.0
1.460000	33.1	9.000	Off	N	9.7	22.9	56.0
1.464000	33.0	9.000	Off	N	9.7	23.0	56.0
1.482000	33.2	9.000	Off	N	9.7	22.8	56.0
6.212000	28.1	9.000	Off	N	9.9	31.9	60.0
6.514000	28.2	9.000	Off	N	9.9	31.8	60.0
7.116000	25.1	9.000	Off	N	9.9	34.9	60.0
7.120000	25.2	9.000	Off	N	9.9	34.8	60.0
7.414000	23.9	9.000	Off	N	9.9	36.1	60.0
10.218000	24.6	9.000	Off	N	10.0	35.4	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	31.0	9.000	Off	N	9.6	25.0	56.0
0.156000	30.3	9.000	Off	N	9.6	25.4	55.7
0.168000	33.5	9.000	Off	N	9.6	21.6	55.1
0.186000	30.4	9.000	Off	N	9.6	23.9	54.2
0.436000	33.6	9.000	Off	N	9.6	13.5	47.1
0.440000	33.6	9.000	Off	N	9.6	13.4	47.1
1.150000	27.8	9.000	Off	N	9.7	18.2	46.0
1.188000	28.2	9.000	Off	N	9.7	17.8	46.0
1.286000	27.1	9.000	Off	N	9.7	18.9	46.0
1.460000	27.7	9.000	Off	N	9.7	18.3	46.0
1.464000	28.0	9.000	Off	N	9.7	18.0	46.0
1.482000	28.2	9.000	Off	N	9.7	17.8	46.0
6.212000	22.4	9.000	Off	N	9.9	27.6	50.0
6.390000	22.2	9.000	Off	N	9.9	27.8	50.0
7.114000	20.0	9.000	Off	N	9.9	30.0	50.0
7.122000	19.9	9.000	Off	N	9.9	30.1	50.0
7.414000	17.2	9.000	Off	N	9.9	32.8	50.0
10.218000	17.6	9.000	Off	N	10.0	32.4	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:

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.

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
WEINSCHTEL	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-FI009-P