

10.3 FREQUENCY SEPARATION / OCCUPIED BANDWIDTH (99% BW)

99% BW (kHz)			
Channel	GFSK	8DPSK	$\pi/4$ DQPSK
CH.0	855.22	1241.0	1231.0
CH.39	853.23	1209.3	1192.2
CH.78	858.37	1214.8	1196.5

20dB BW (kHz)			
Channel	GFSK	8DPSK	$\pi/4$ DQPSK
CH.0	952.4	1317	1335
CH.39	952.3	1311	1313
CH.78	953.3	1311	1317

Channel Separation(kHz)			Limit (kHz)
GFSK	8DPSK	$\pi/4$ DQPSK	
968	994	991	>25 kHz or >2/3 of the 20dB BW

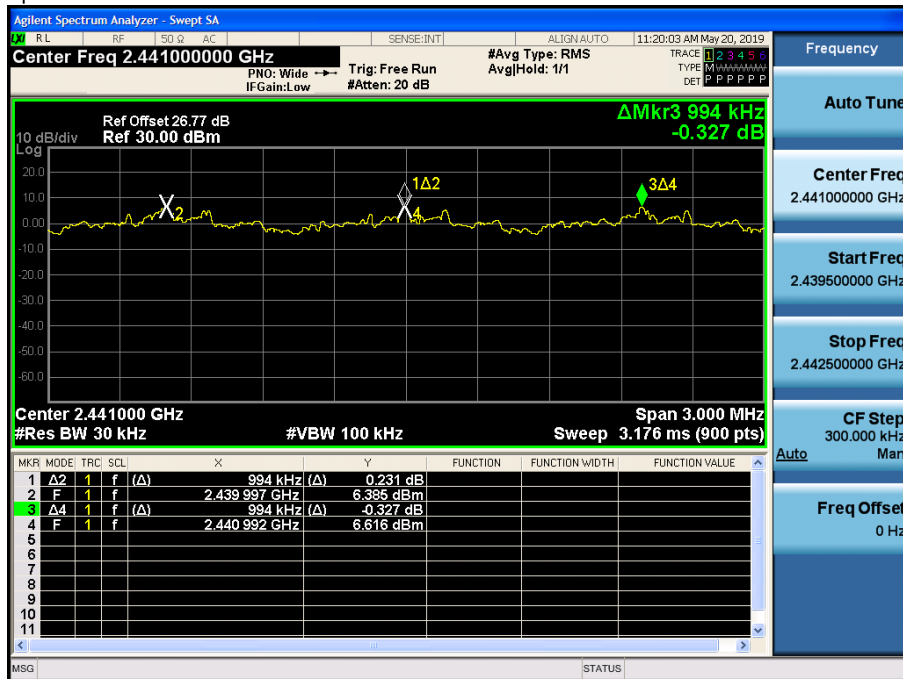
Test Plots (GFSK)

Channel Separation



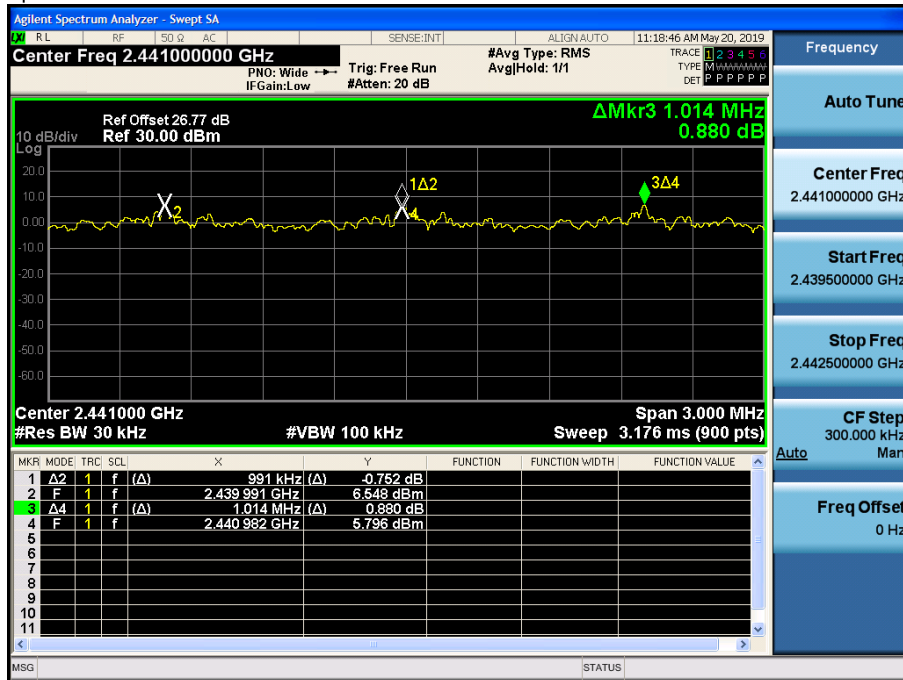
Test Plots (8DPSK)

Channel Separation



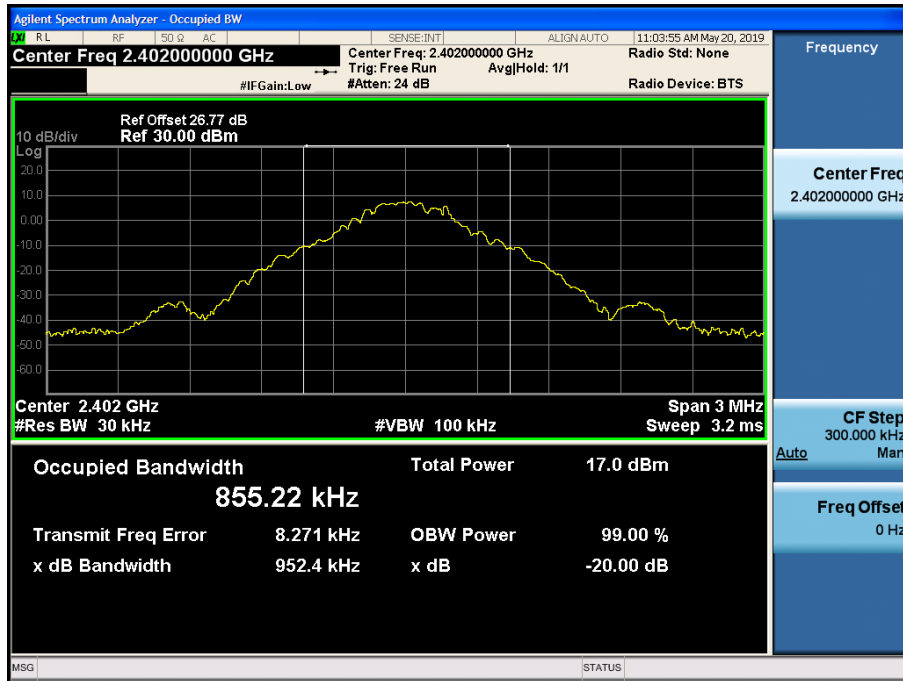
Test Plots ($\pi/4$ DQPSK)

Channel Separation



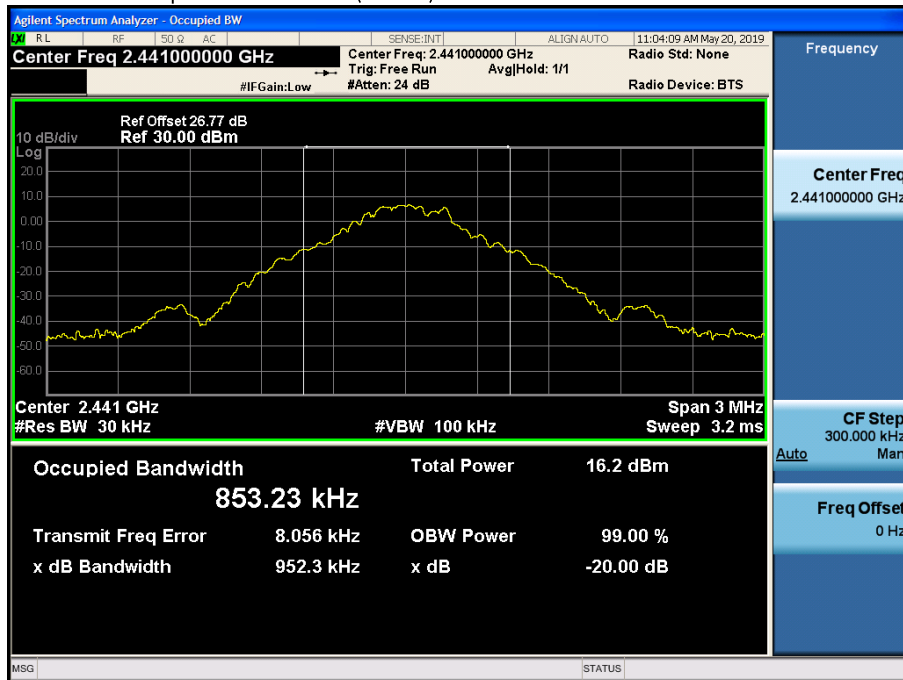
Test Plots (GFSK)

20 dB Bandwidth & Occupied Bandwidth (CH.0)



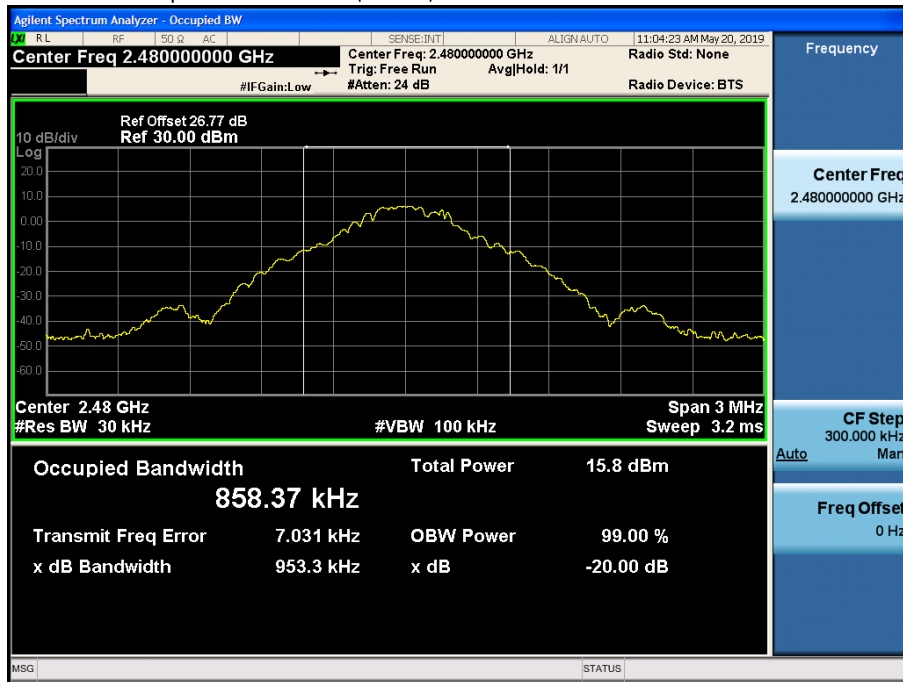
Test Plots (GFSK)

20 dB Bandwidth & Occupied Bandwidth (CH.39)



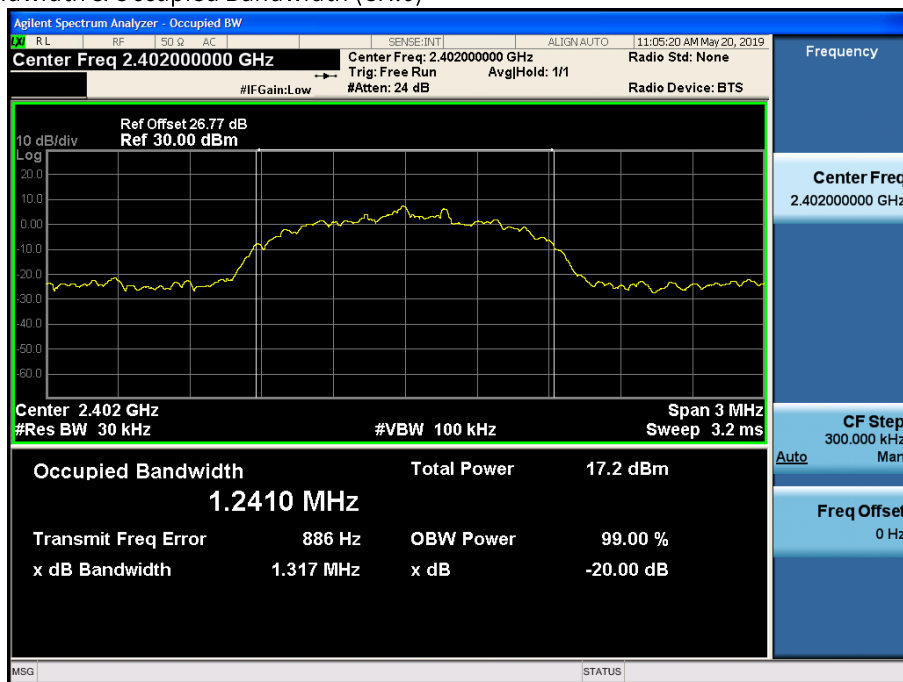
Test Plots (GFSK)

20 dB Bandwidth & Occupied Bandwidth (CH.78)



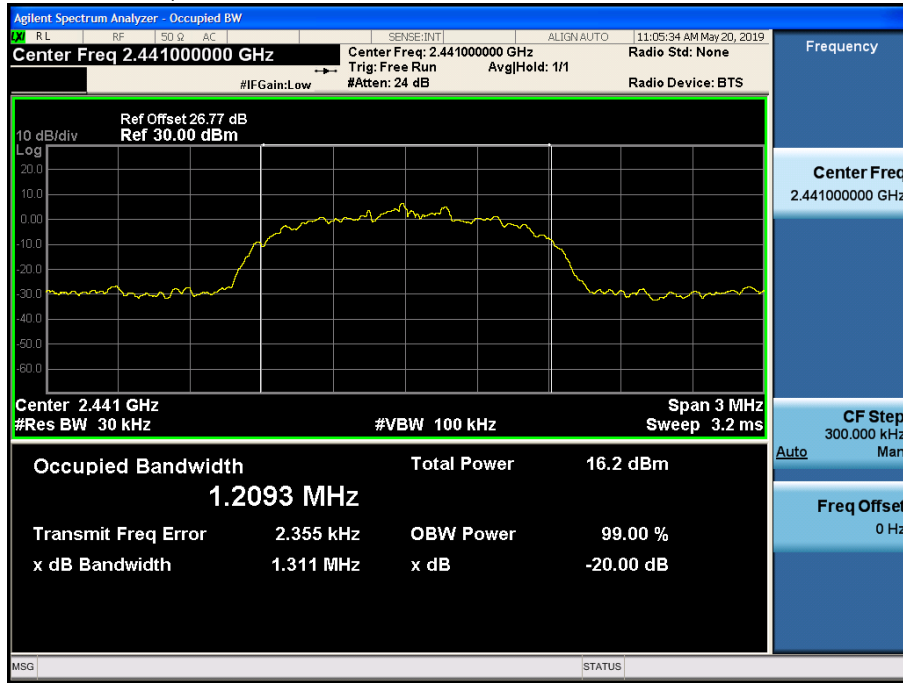
Test Plots (8DPSK)

20 dB Bandwidth & Occupied Bandwidth (CH.0)



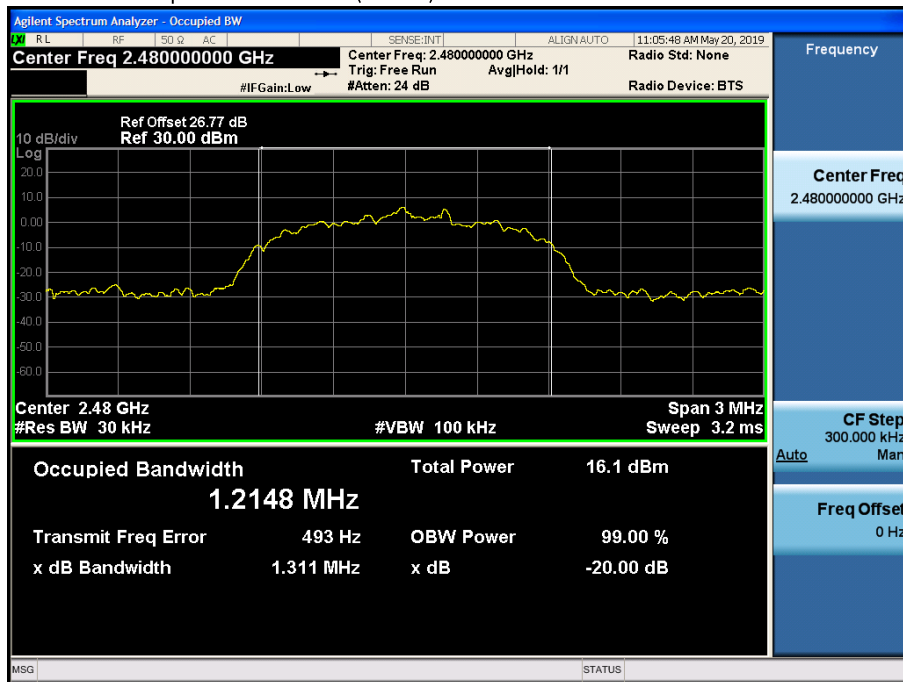
Test Plots (8DPSK)

20 dB Bandwidth & Occupied Bandwidth (CH.39)



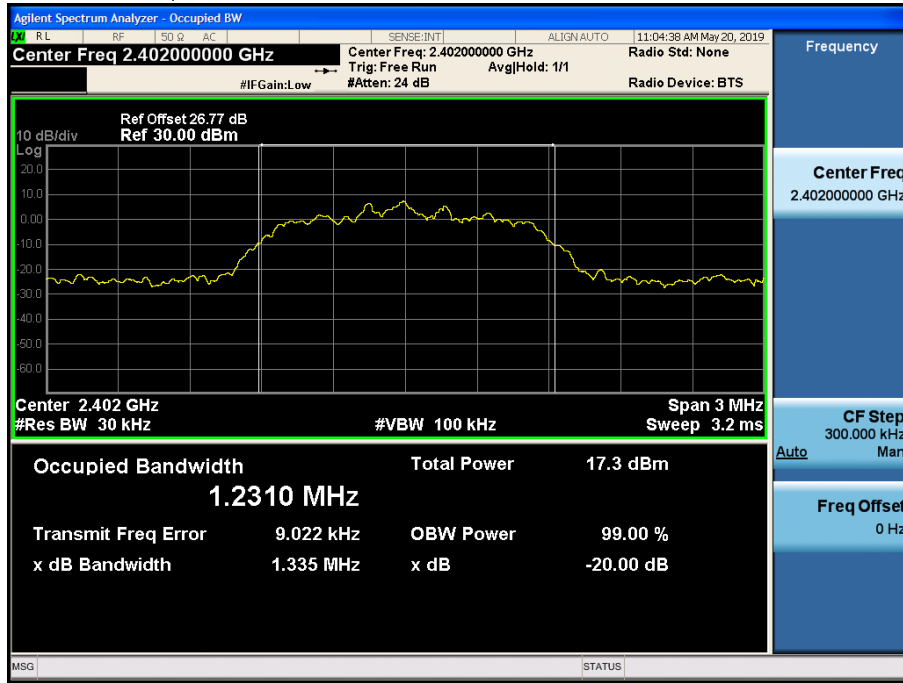
Test Plots (8DPSK)

20 dB Bandwidth & Occupied Bandwidth (CH.78)



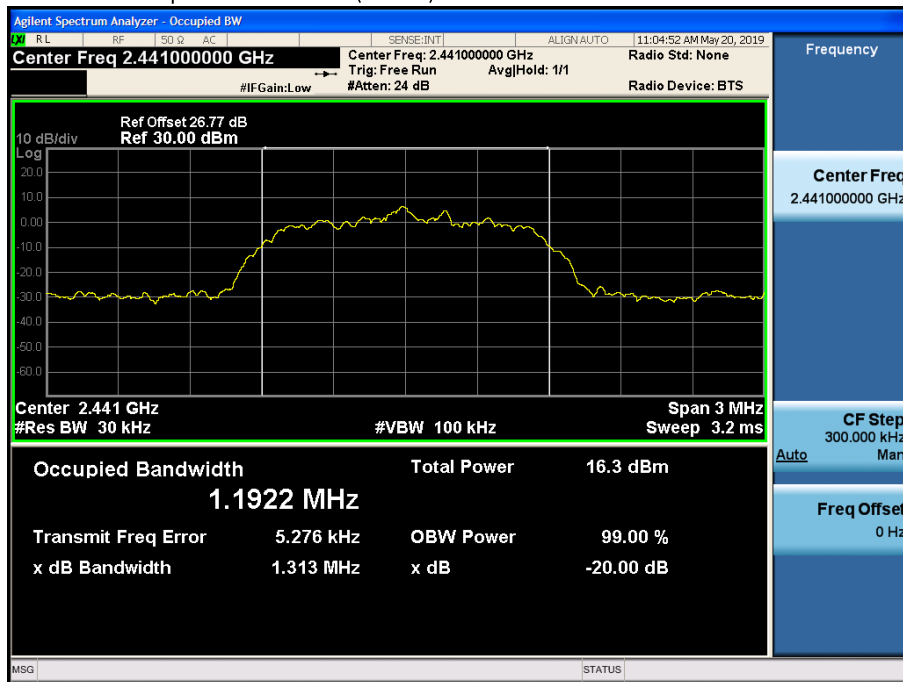
Test Plots ($\pi/4$ DQPSK)

20 dB Bandwidth & Occupied Bandwidth (CH.0)



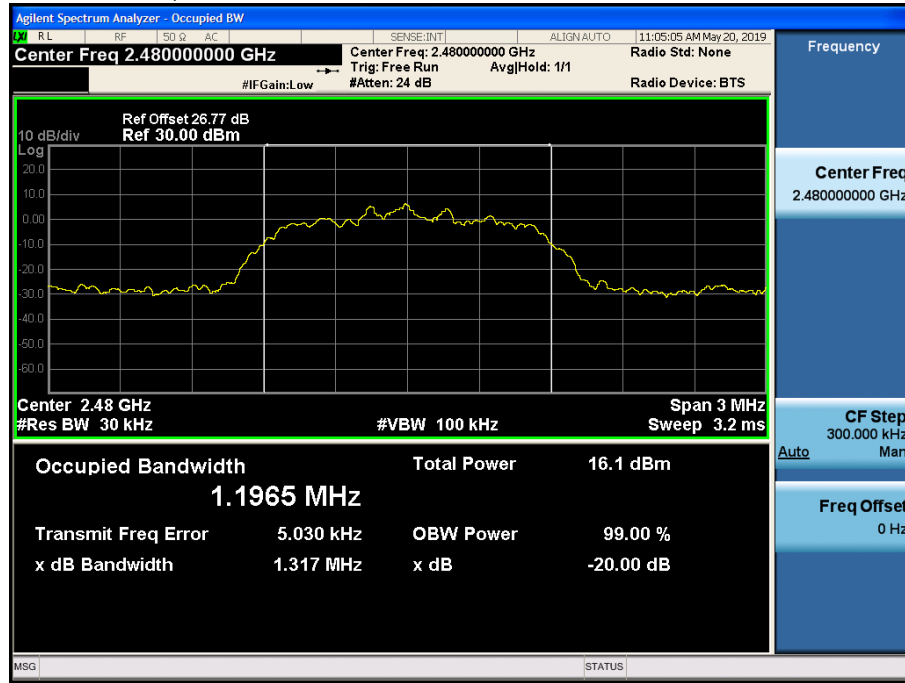
Test Plots ($\pi/4$ DQPSK)

20 dB Bandwidth & Occupied Bandwidth (CH.39)



Test Plots ($\pi/4$ DQPSK)

20 dB Bandwidth & Occupied Bandwidth (CH.78)



10.4 NUMBER OF HOPPING FREQUENCY

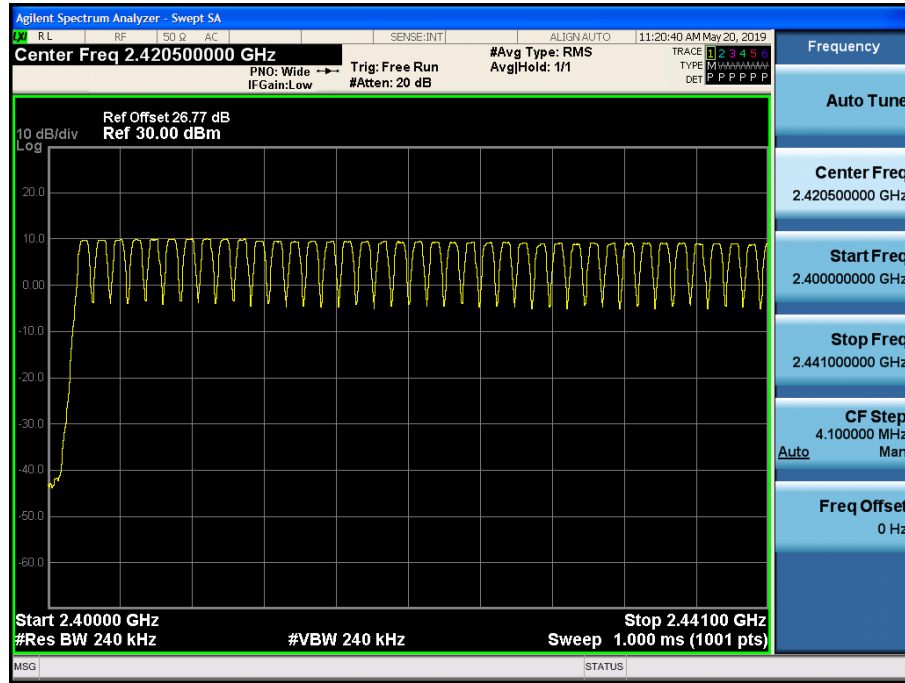
Result (No. of CH)			Limit
GFSK	8DPSK	$\pi/4$ DQPSK	
79	79	79	>15

Note :

In case of AFH mode, minimum number of hopping channels is 20.

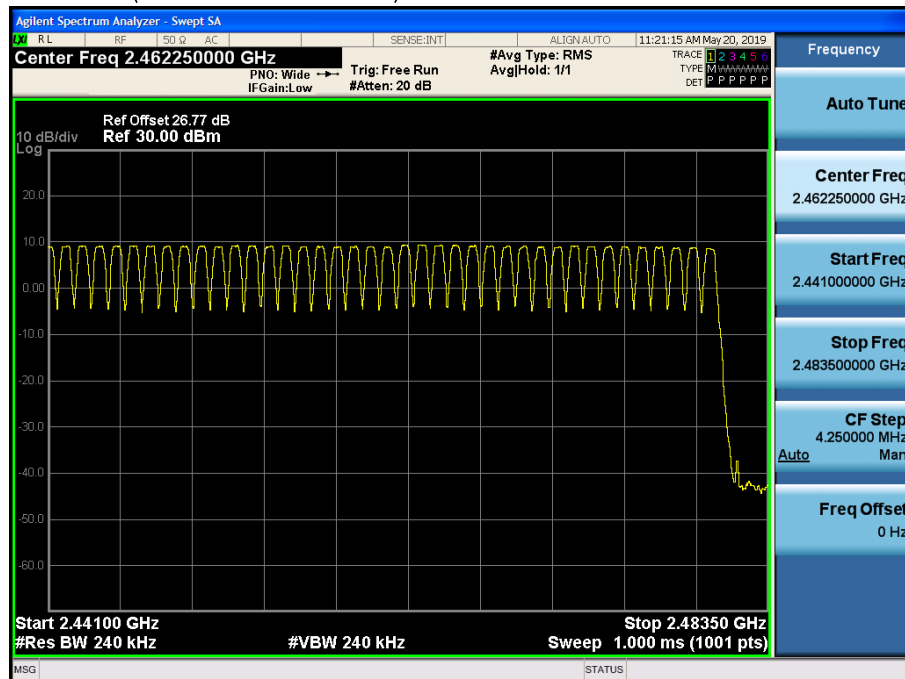
Test Plots (GFSK)

Number of Channels (2.4 GHz - 2.441 GHz)



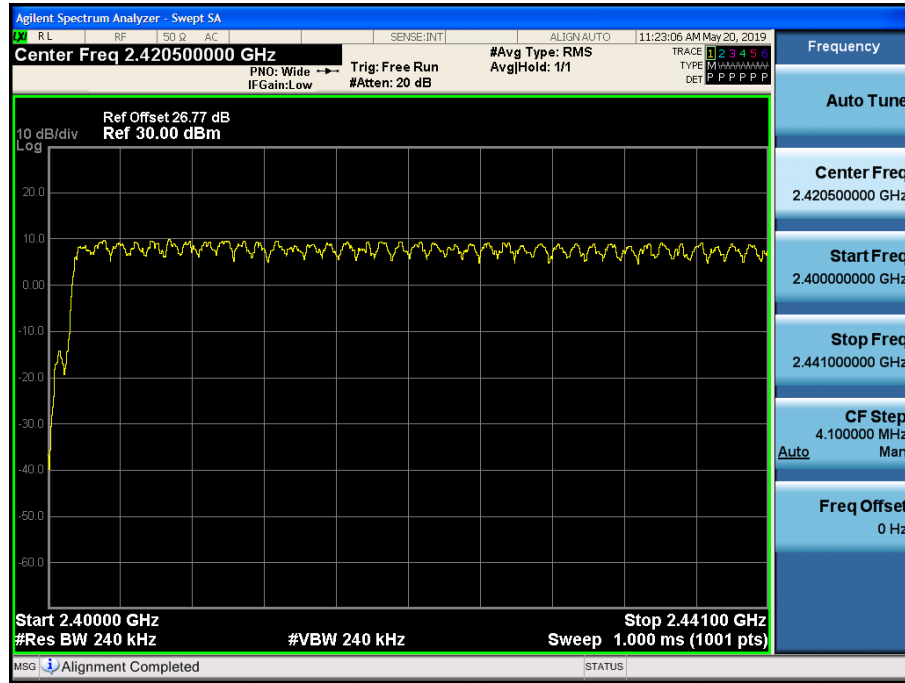
Test Plots (GFSK)

Number of Channels (2.441 GHz - 2.4835 GHz)



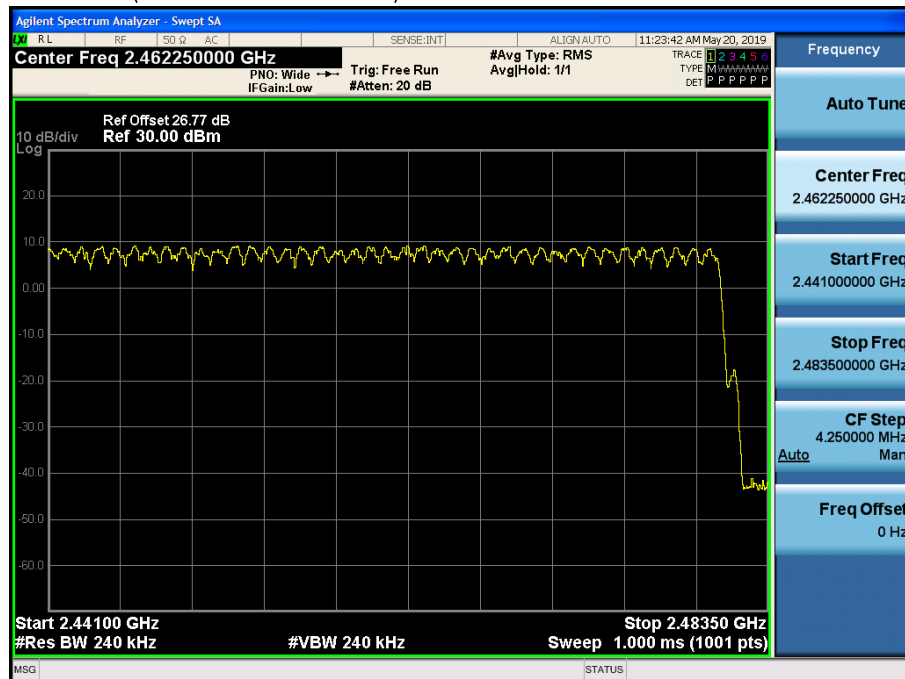
Test Plots (8DPSK)

Number of Channels (2.4 GHz - 2.441 GHz)



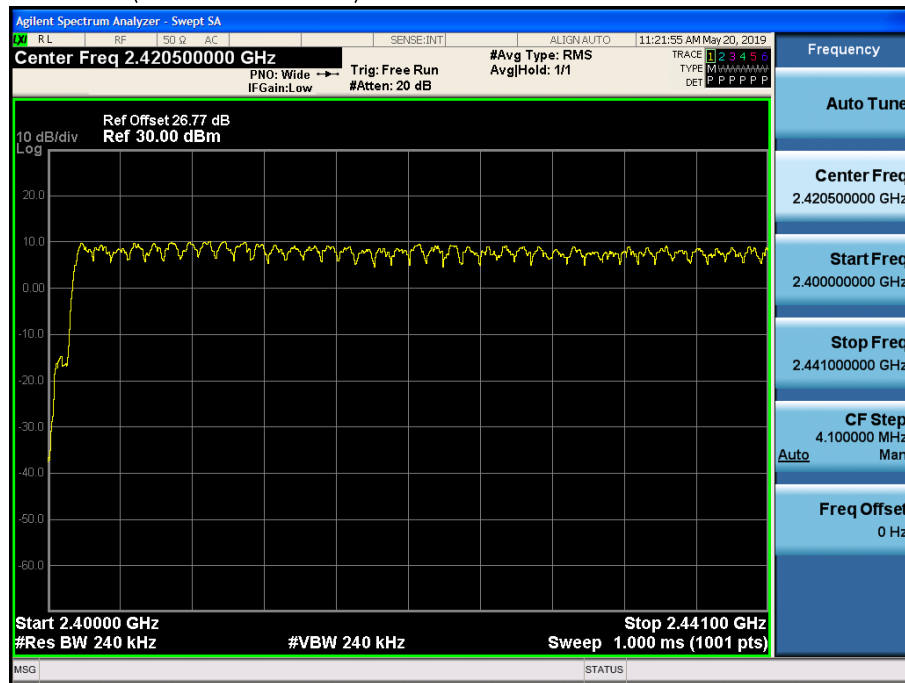
Test Plots (8DPSK)

Number of Channels (2.441 GHz - 2.4835 GHz)



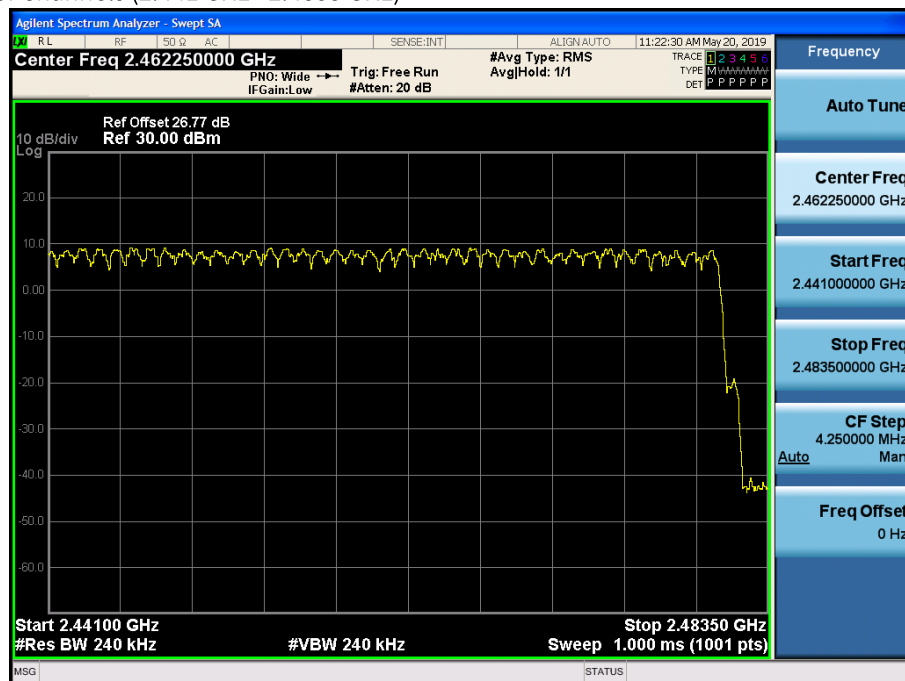
Test Plots ($\pi/4$ DQPSK)

Number of Channels (2.4 GHz - 2.441 GHz)



Test Plots ($\pi/4$ DQPSK)

Number of Channels (2.441 GHz - 2.4835 GHz)



10.5 TIME OF OCCUPANCY (DWELL TIME)

	Channel	GFSK	8DPSK	$\pi/4$ DQPSK
Pulse Time (ms)	Low	2.885	2.890	2.885
	Mid	2.885	2.890	2.890
	High	2.885	2.890	2.890

Non-AFH Mode

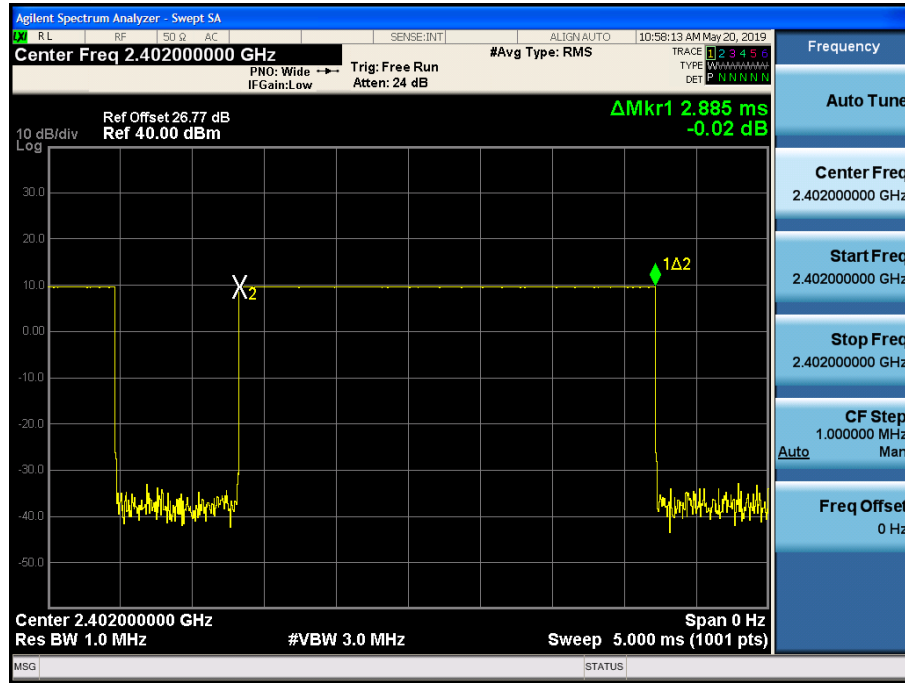
	Channel	GFSK	8DPSK	$\pi/4$ DQPSK	Period Time (s)	Limit (ms)
Total of Dwell (ms)	Low	307.73	308.27	307.73	31.6	400
	Mid	307.73	308.27	308.27	31.6	
	High	307.73	308.27	308.27	31.6	

AFH Mode

	Channel	GFSK	8DPSK	$\pi/4$ DQPSK	Period Time (s)	Limit (ms)
Total of Dwell (ms)	Low	153.87	154.13	153.87	8.0	400
	Mid	153.87	154.13	154.13	8.0	
	High	153.87	154.13	154.13	8.0	

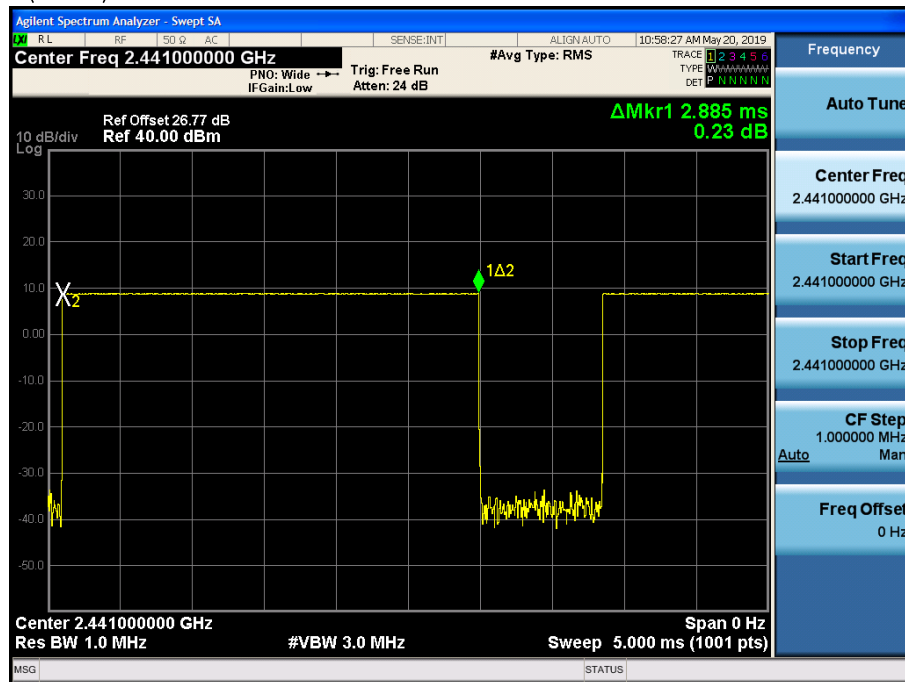
Test Plots (GFSK)

Dwell Time (CH.0)



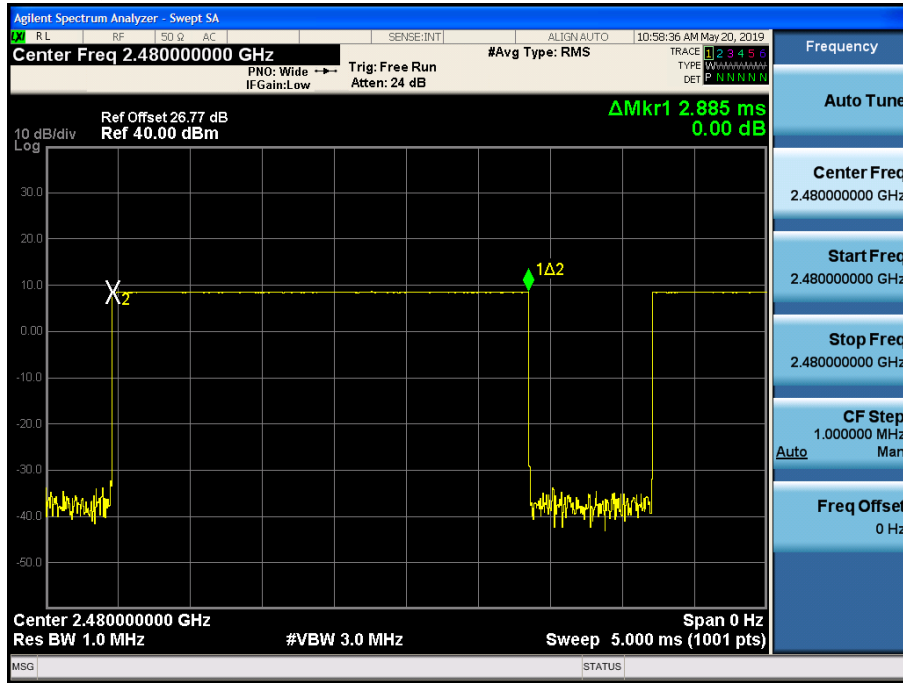
Test Plots (GFSK)

Dwell Time (CH.39)



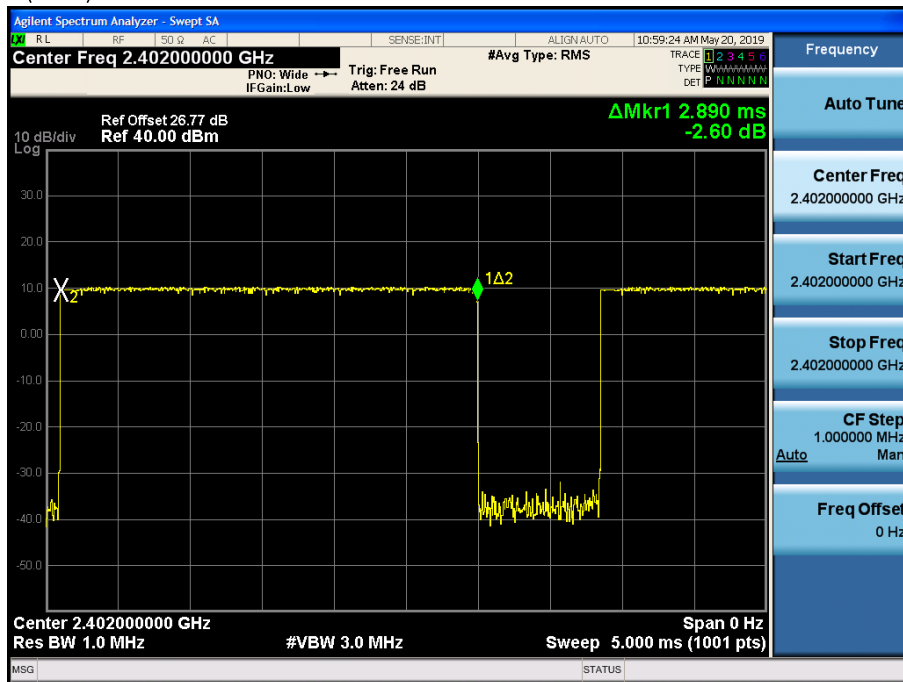
Test Plots (GFSK)

Dwell Time (CH.78)



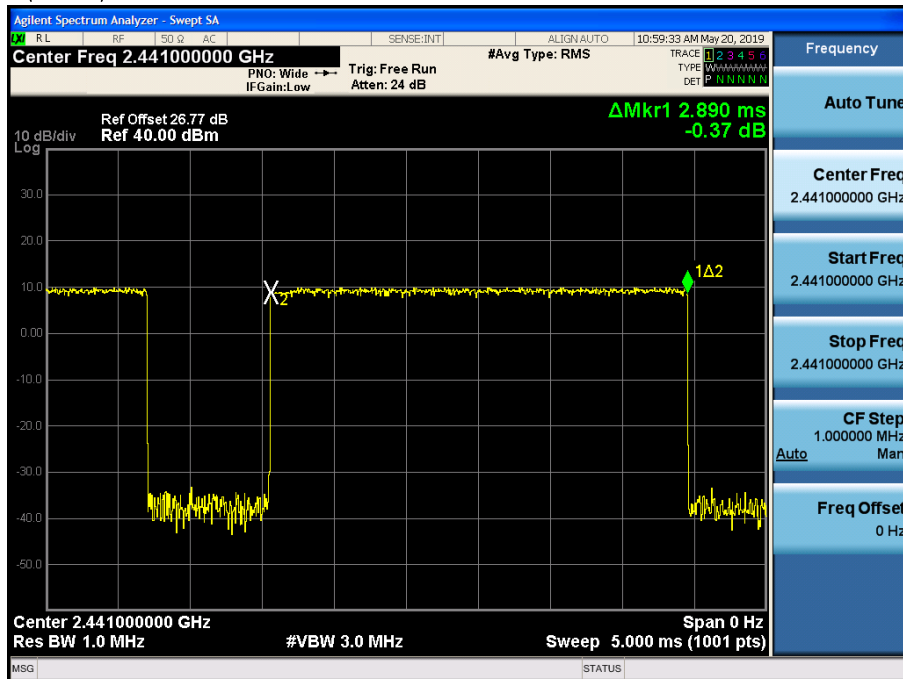
Test Plots (8DPSK)

Dwell Time (CH.0)



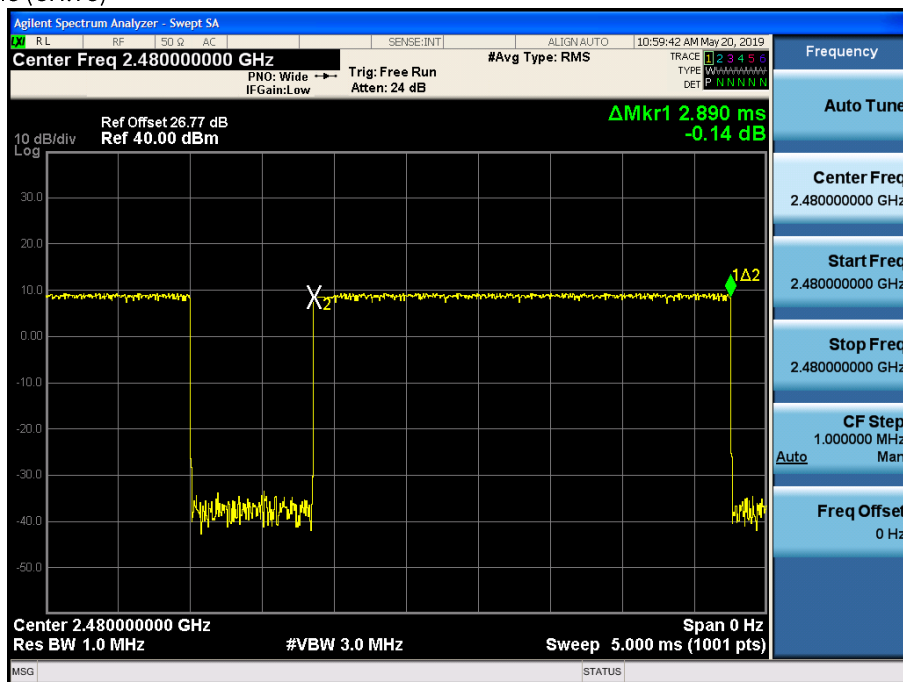
Test Plots (8DPSK)

Dwell Time (CH.39)



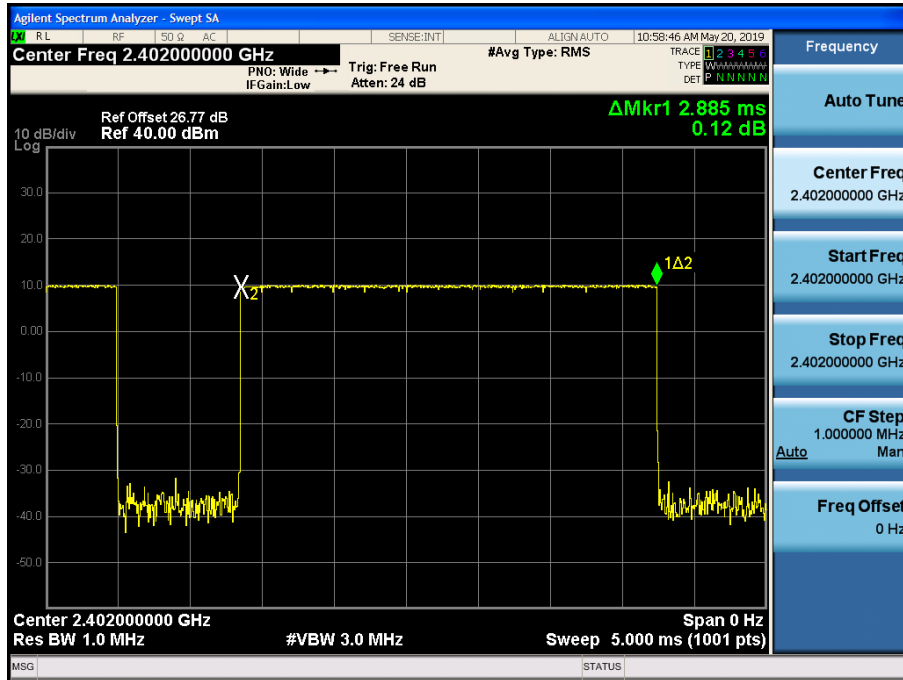
Test Plots (8DPSK)

Dwell Time (CH.78)

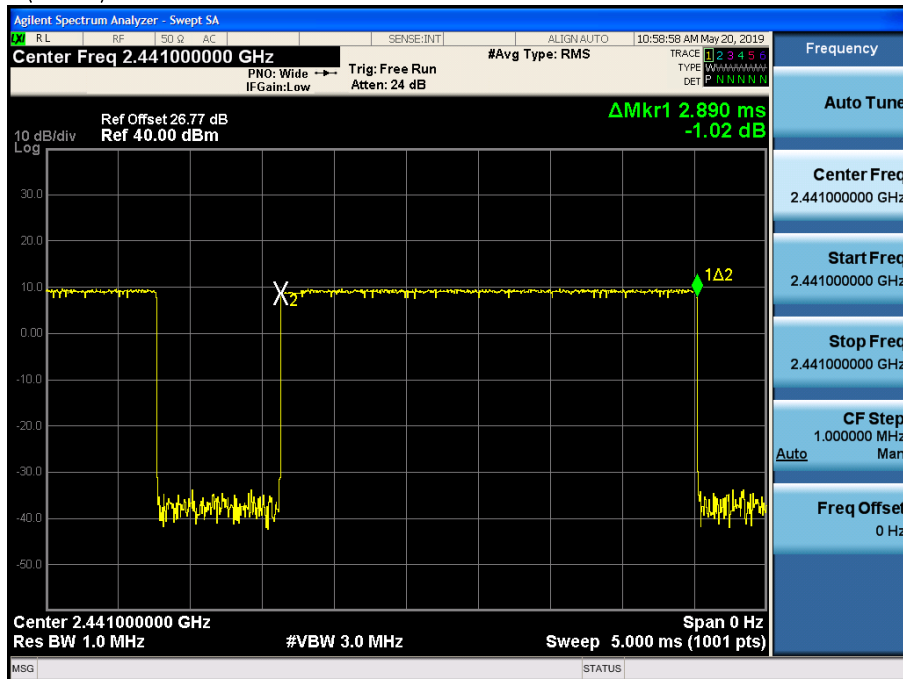


Test Plots ($\pi/4$ DQPSK)

Dwell Time (CH.0)

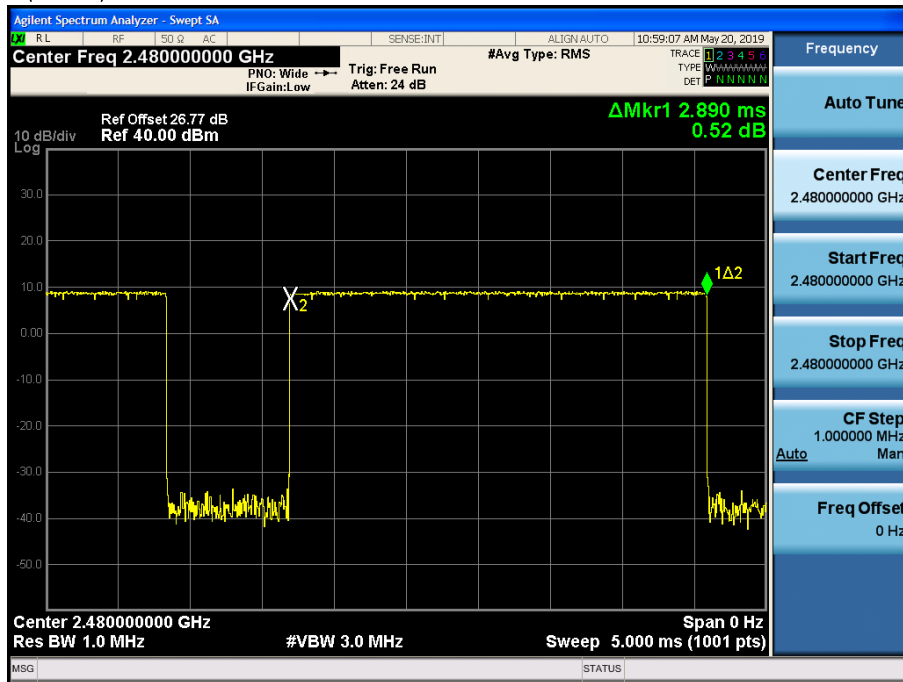

Test Plots ($\pi/4$ DQPSK)

Dwell Time (CH.39)



Test Plots ($\pi/4$ DQPSK)

Dwell Time (CH.78)



10.6 SPURIOUS EMISSIONS

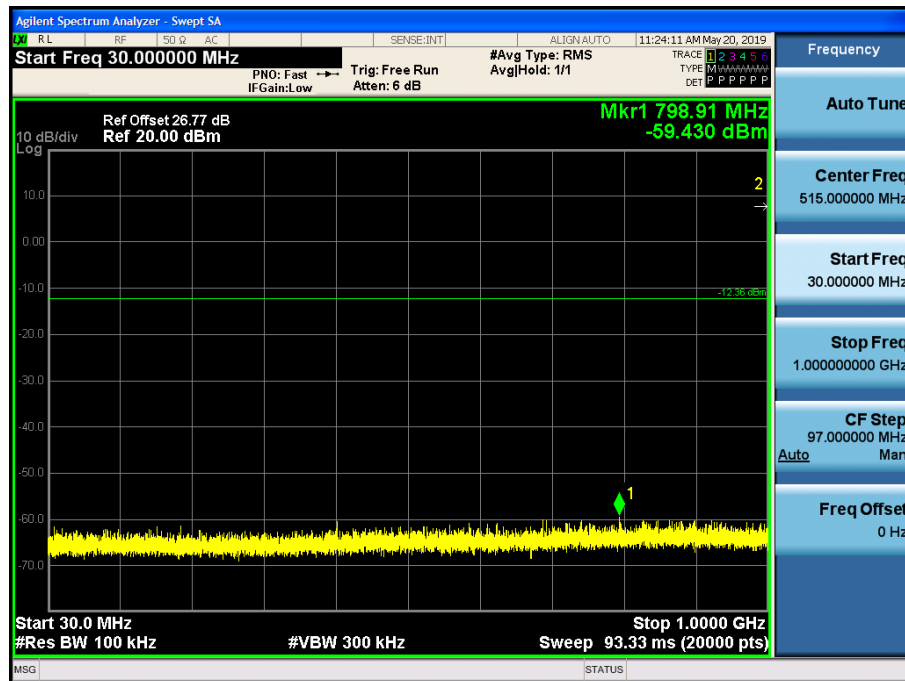
10.6.1 CONDUCTED SPURIOUS EMISSIONS

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.

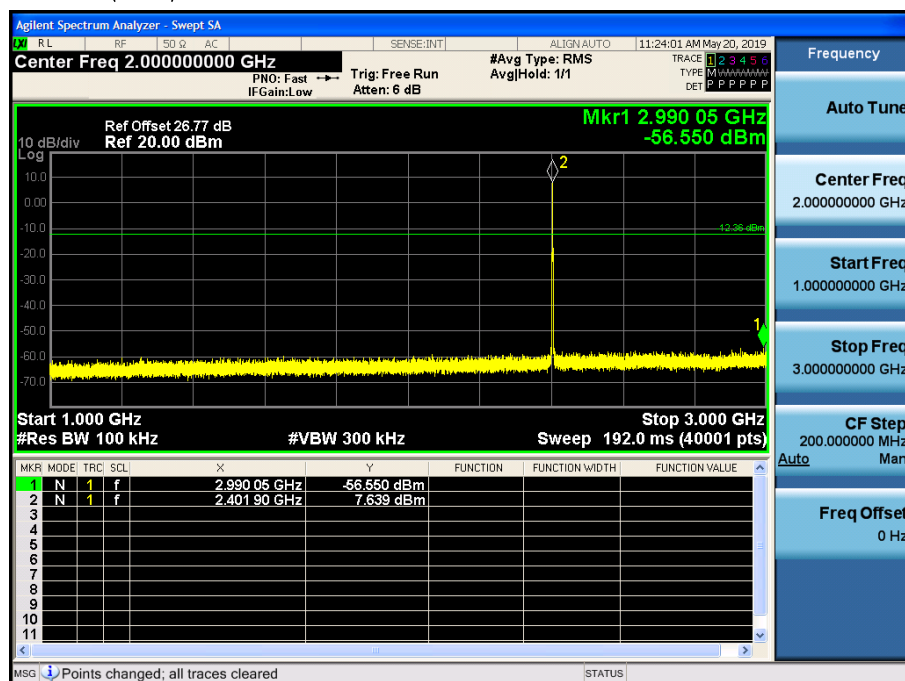
Test Plots (8DPSK)- 30 MHz - 1 GHz

Spurious Emission (CH.0)



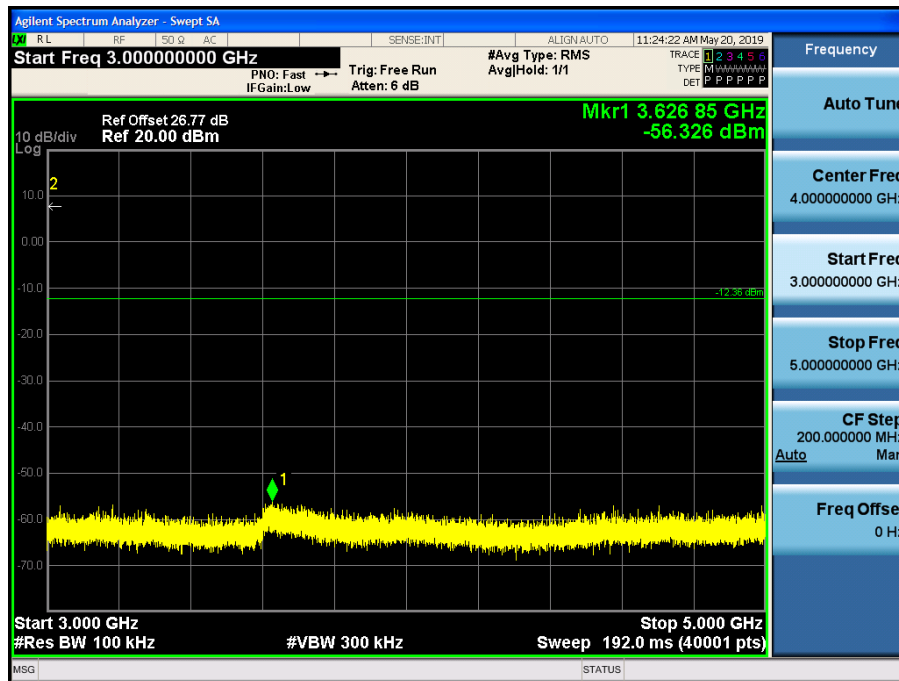
Test Plots (8DPSK)- 1 GHz – 3 GHz

Spurious Emission (CH.0)



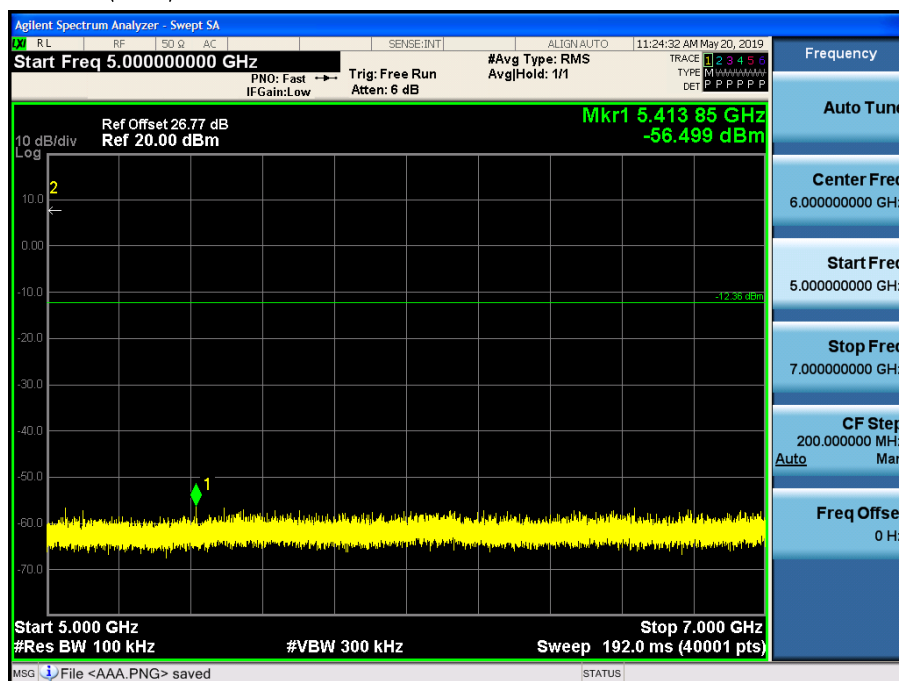
Test Plots(8DPSK)- 3 GHz - 5 GHz

Spurious Emission (CH.0)



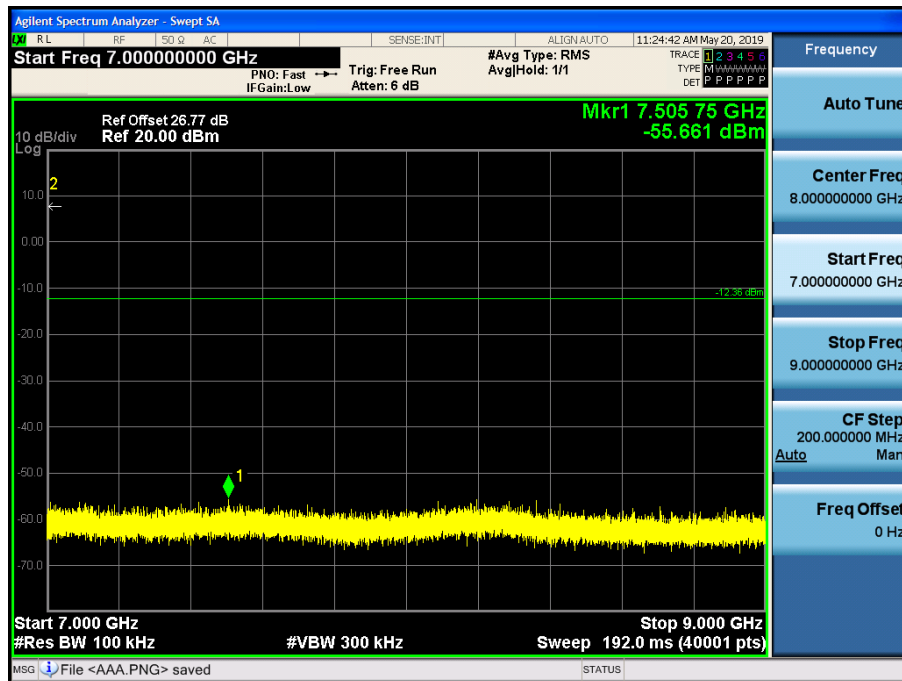
Test Plots (8DPSK)- 5 GHz - 7 GHz

Spurious Emission (CH.0)



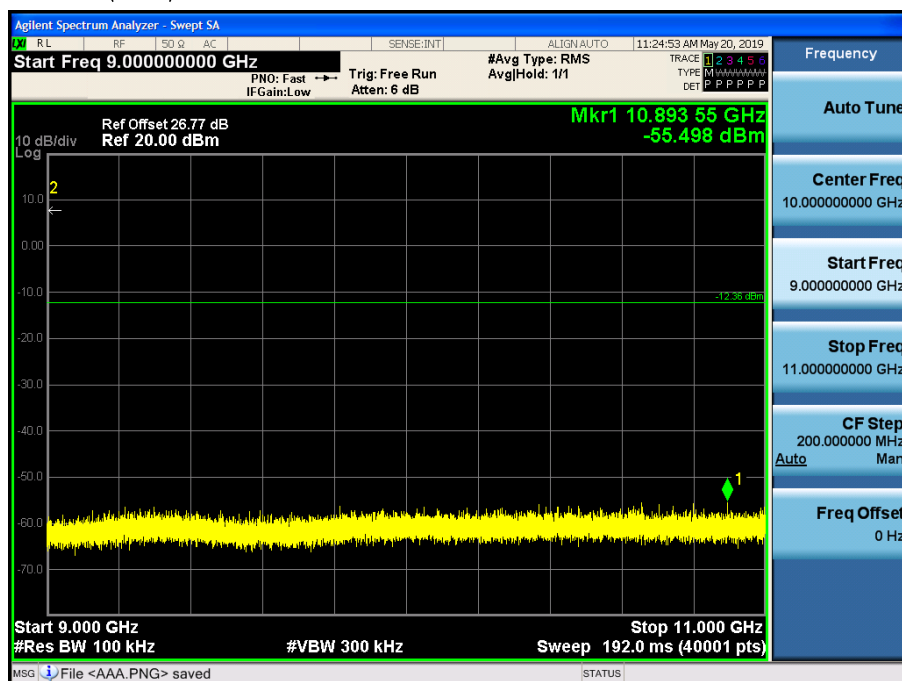
Test Plots(8DPSK)- 7 GHz - 9 GHz

Spurious Emission (CH.0)



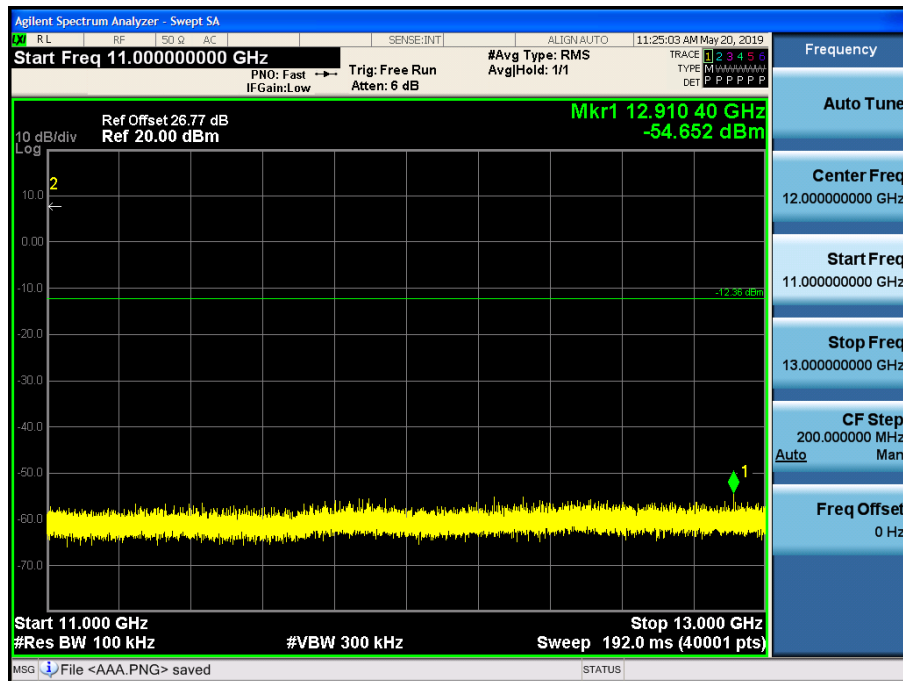
Test Plots(8DPSK)- 9 GHz - 11 GHz

Spurious Emission (CH.0)



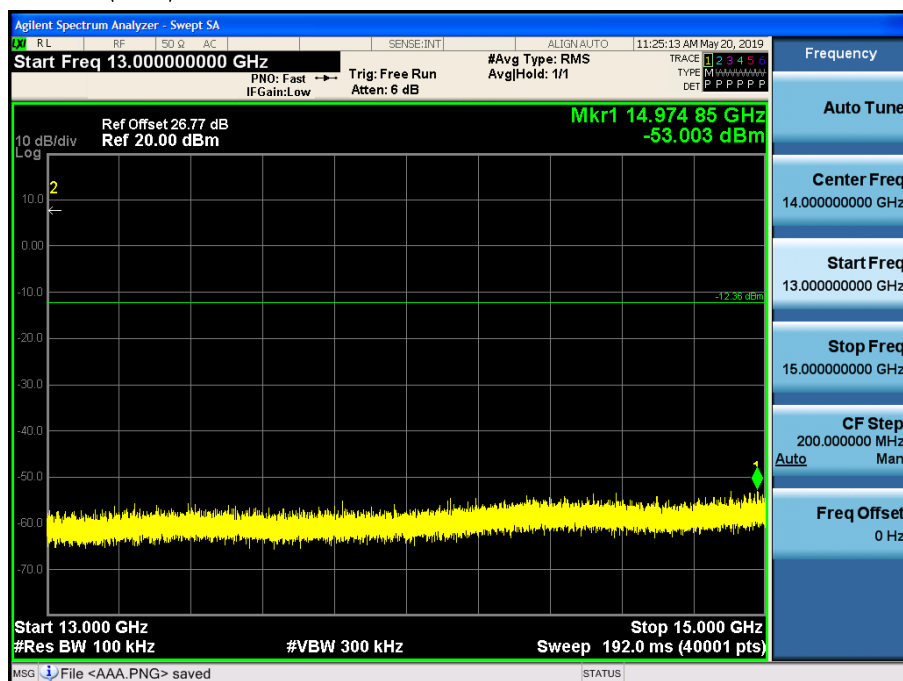
Test Plots(8DPSK) 11 GHz - 13 GHz

Spurious Emission (CH.0)



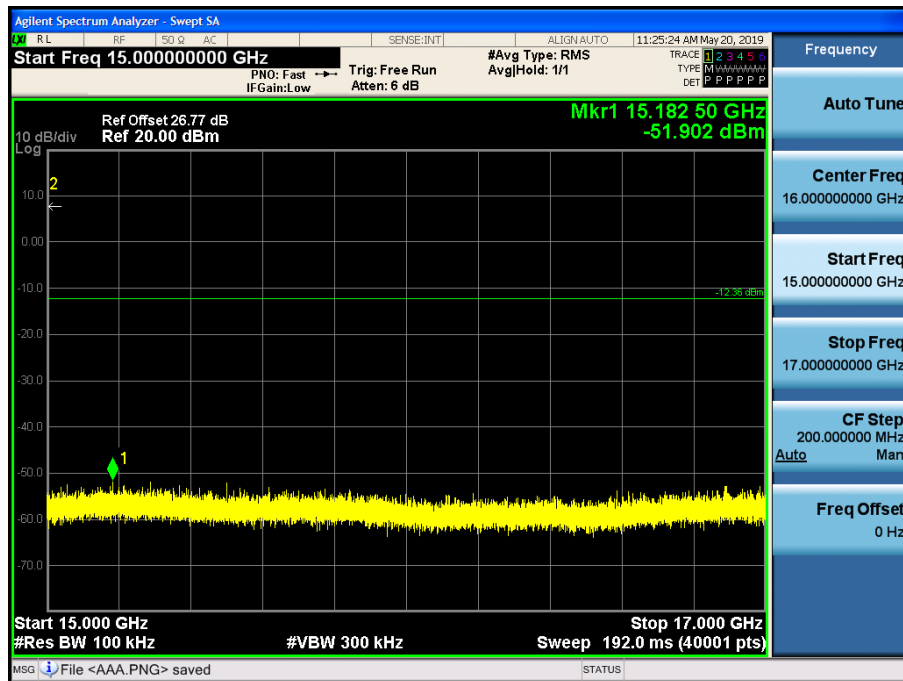
Test Plots (8DPSK)- 13 GHz – 15 GHz

Spurious Emission (CH.0)



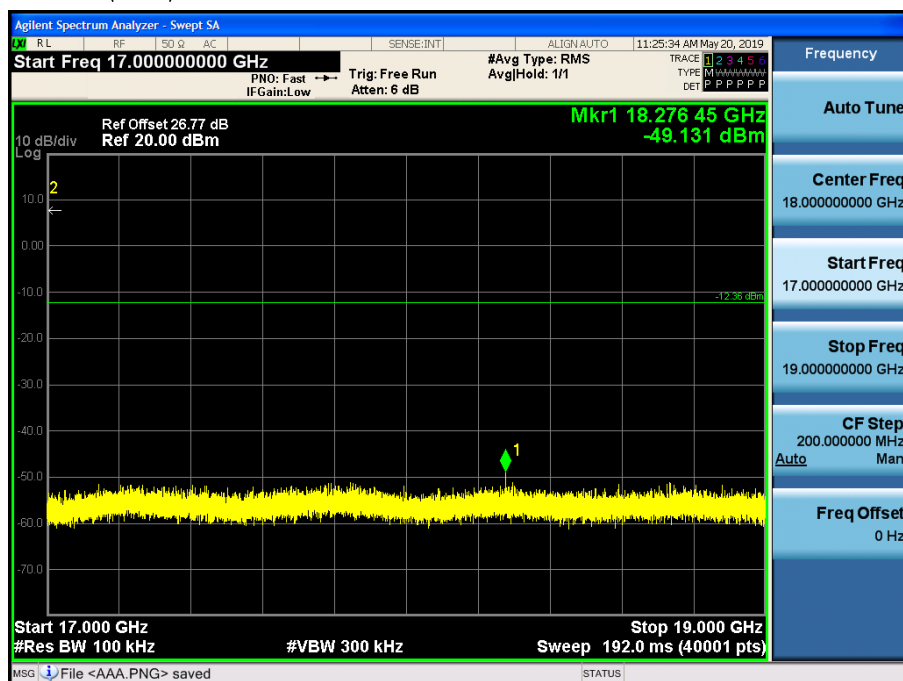
Test Plots(8DPSK)- 15 GHz - 17 GHz

Spurious Emission (CH.0)



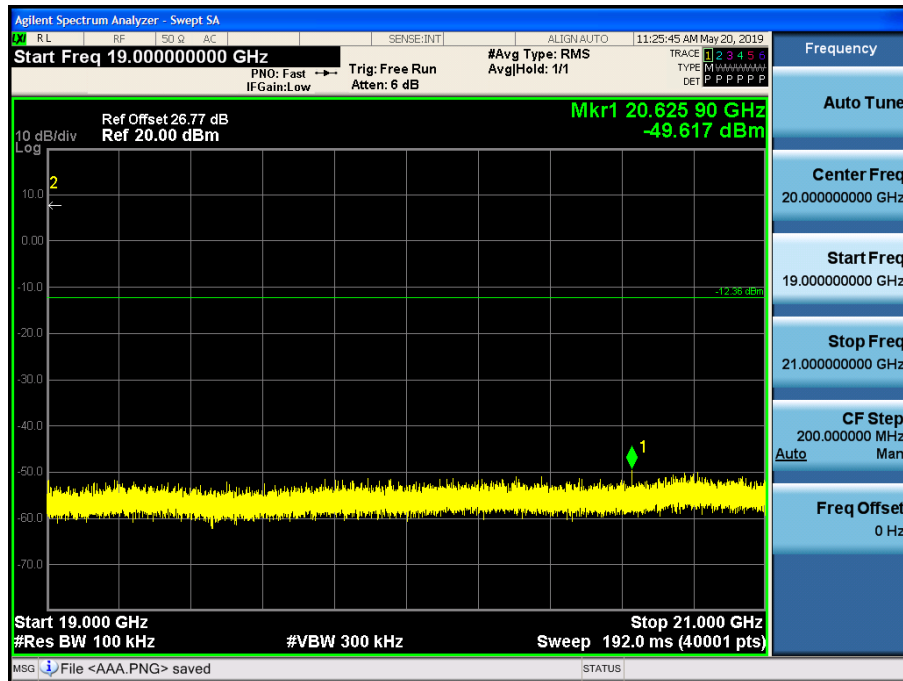
Test Plots(8DPSK)- 17 GHz - 19 GHz

Spurious Emission (CH.0)



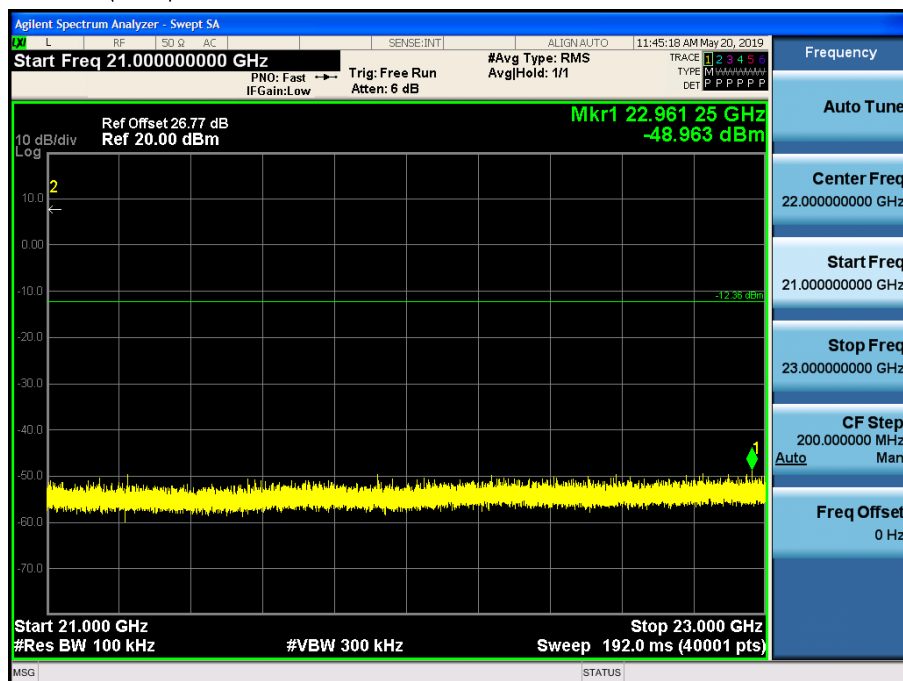
Test Plots (8DPSK)- 19 GHz - 21 GHz

Spurious Emission (CH.0)



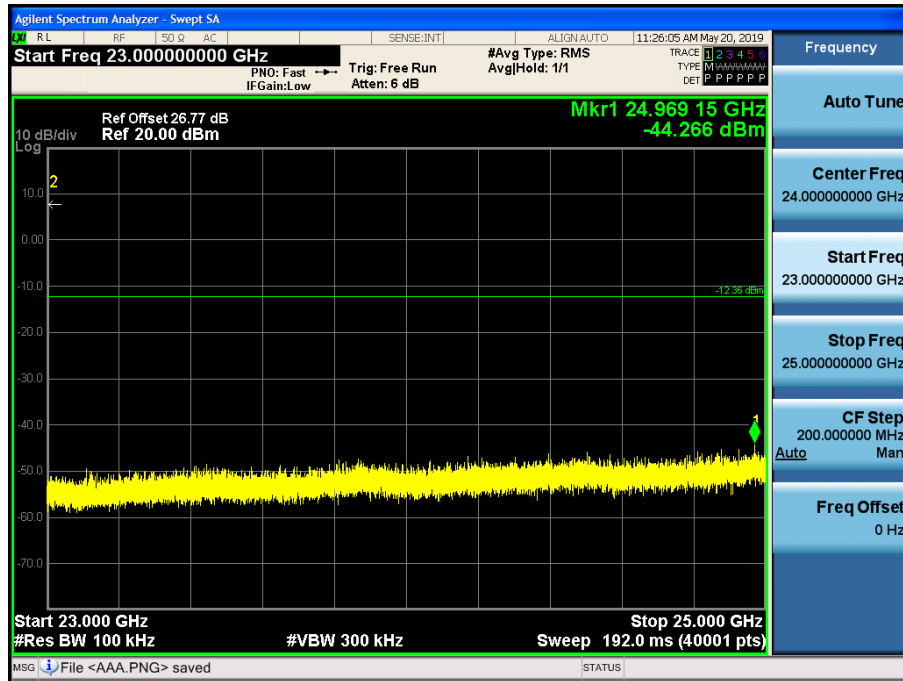
Test Plots (8DPSK)- 21 GHz - 23 GHz

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.
5. The test results for below 30 MHz is correlated to an open site.
The result on OFS is about 2 dB higher than semi-anechoic chamber(10 m chamber)

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	49.93	1.83	V	51.76	73.98	22.22	PK
4804	38.49	1.83	V	40.32	53.98	13.66	AV
7206	49.29	9.65	V	58.94	73.98	15.04	PK
7206	35.38	9.65	V	45.03	53.98	8.95	AV
4804	51.11	1.83	H	52.94	73.98	21.04	PK
4804	38.62	1.83	H	40.45	53.98	13.53	AV
7206	49.75	9.65	H	59.40	73.98	14.58	PK
7206	35.92	9.65	H	45.57	53.98	8.41	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	50.66	1.83	V	52.49	73.98	21.49	PK
4804	37.77	1.83	V	39.60	53.98	14.38	AV
7206	49.21	9.65	V	58.86	73.98	15.12	PK
7206	35.77	9.65	V	45.42	53.98	8.56	AV
4804	51.22	1.83	H	53.05	73.98	20.93	PK
4804	37.88	1.83	H	39.71	53.98	14.27	AV
7206	49.24	9.65	H	58.89	73.98	15.09	PK
7206	35.96	9.65	H	45.61	53.98	8.37	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	50.12	1.83	V	51.95	73.98	22.03	PK
4804	36.97	1.83	V	38.80	53.98	15.18	AV
7206	48.85	9.65	V	58.50	73.98	15.48	PK
7206	35.83	9.65	V	45.48	53.98	8.50	AV
4804	50.70	1.83	H	52.53	73.98	21.45	PK
4804	37.87	1.83	H	39.70	53.98	14.28	AV
7206	49.84	9.65	H	59.49	73.98	14.49	PK
7206	35.98	9.65	H	45.63	53.98	8.35	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	50.42	2.31	V	52.73	73.98	21.25	PK
4882	38.29	2.31	V	40.60	53.98	13.38	AV
7323	49.81	9.96	V	59.77	73.98	14.21	PK
7323	35.12	9.96	V	45.08	53.98	8.90	AV
4882	50.86	2.31	H	53.17	73.98	20.81	PK
4882	38.34	2.31	H	40.65	53.98	13.33	AV
7323	50.03	9.96	H	59.99	73.98	13.99	PK
7323	35.82	9.96	H	45.78	53.98	8.20	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	49.21	2.31	V	51.52	73.98	22.46	PK
4882	37.70	2.31	V	40.01	53.98	13.97	AV
7323	49.23	9.96	V	59.19	73.98	14.79	PK
7323	35.68	9.96	V	45.64	53.98	8.34	AV
4882	50.33	2.31	H	52.64	73.98	21.34	PK
4882	37.83	2.31	H	40.14	53.98	13.84	AV
7323	50.54	9.96	H	60.50	73.98	13.48	PK
7323	35.92	9.96	H	45.88	53.98	8.10	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	49.82	2.31	V	52.13	73.98	21.85	PK
4882	37.71	2.31	V	40.02	53.98	13.96	AV
7323	49.79	9.96	V	59.75	73.98	14.23	PK
7323	35.70	9.96	V	45.66	53.98	8.32	AV
4882	50.81	2.31	H	53.12	73.98	20.86	PK
4882	37.92	2.31	H	40.23	53.98	13.75	AV
7323	50.16	9.96	H	60.12	73.98	13.86	PK
7323	35.90	9.96	H	45.86	53.98	8.12	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	50.88	2.26	V	53.14	73.98	20.84	PK
4960	38.26	2.26	V	40.52	53.98	13.46	AV
7440	49.01	9.78	V	58.79	73.98	15.19	PK
7440	35.52	9.78	V	45.30	53.98	8.68	AV
4960	51.30	2.26	H	53.56	73.98	20.42	PK
4960	40.69	2.26	H	42.95	53.98	11.03	AV
7440	49.09	9.78	H	58.87	73.98	15.11	PK
7440	35.68	9.78	H	45.46	53.98	8.52	AV

Operation Mode: CH High(8DPSK)

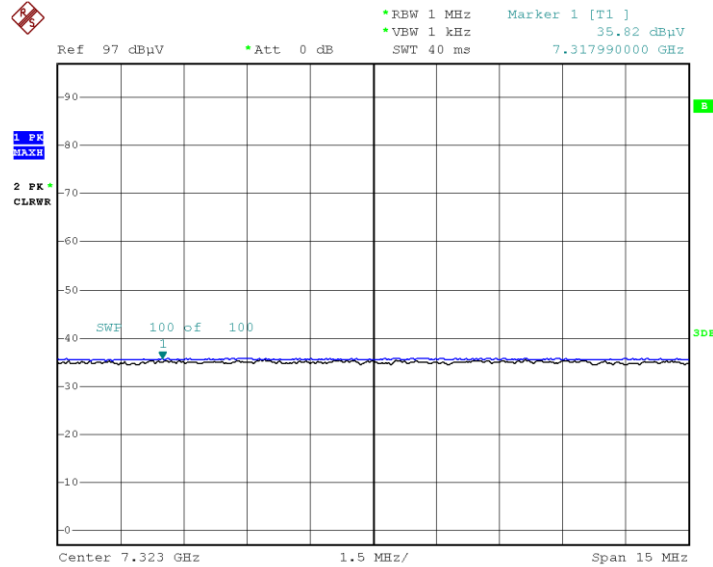
Frequency [MHz]	Reading [dBuV]	A.F + C.L - A.G + D.F [dB]	Pol. [H/V]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
4960	50.27	2.26	V	52.53	73.98	21.45	PK
4960	38.51	2.26	V	40.77	53.98	13.21	AV
7440	49.52	9.78	V	59.30	73.98	14.68	PK
7440	35.53	9.78	V	45.31	53.98	8.67	AV
4960	51.57	2.26	H	53.83	73.98	20.15	PK
4960	39.18	2.26	H	41.44	53.98	12.54	AV
7440	49.85	9.78	H	59.63	73.98	14.35	PK
7440	35.68	9.78	H	45.46	53.98	8.52	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	50.98	2.26	V	53.24	73.98	20.74	PK
4960	39.01	2.26	V	41.27	53.98	12.71	AV
7440	48.76	9.78	V	58.54	73.98	15.44	PK
7440	35.02	9.78	V	44.80	53.98	9.18	AV
4960	51.42	2.26	H	53.68	73.98	20.30	PK
4960	39.23	2.26	H	41.49	53.98	12.49	AV
7440	49.57	9.78	H	59.35	73.98	14.63	PK
7440	35.74	9.78	H	45.52	53.98	8.46	AV

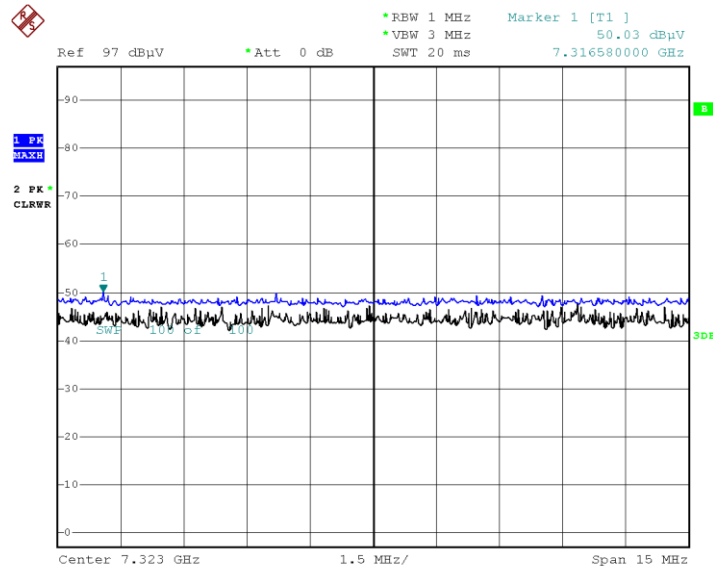
RESULT PLOTS (Worst case : Y-H)

Radiated Spurious Emissions plot – Average Reading (GFSK, Ch.39 3rd Harmonic)



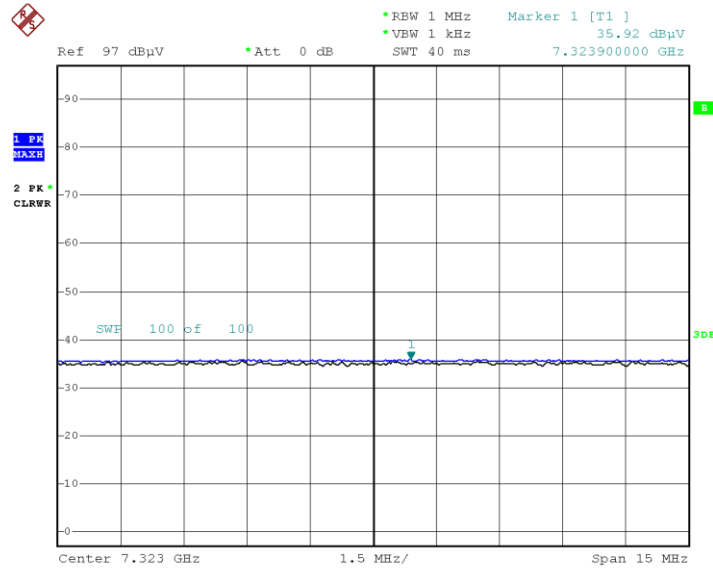
Date: 13.MAY.2019 14:24:20

Radiated Spurious Emissions plot – Peak Reading (GFSK, Ch.39 3rd Harmonic)



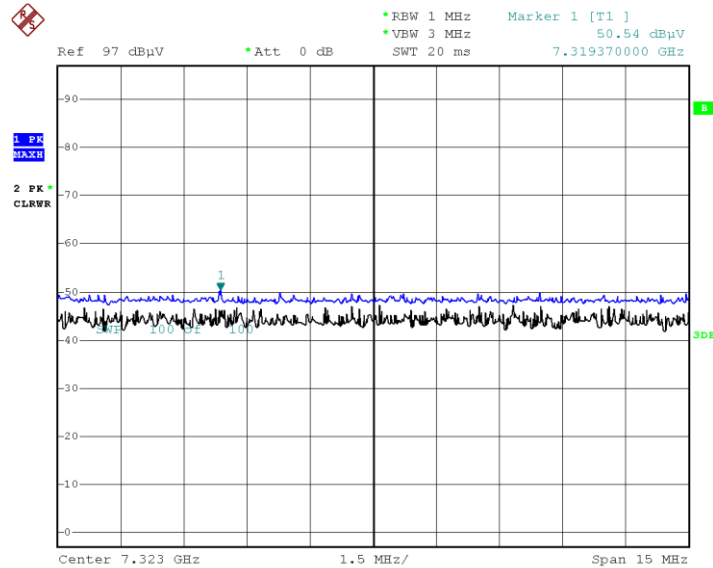
Date: 13.MAY.2019 14:25:50

Radiated Spurious Emissions plot – Average Reading (8DPSK, Ch.39 3rd Harmonic)

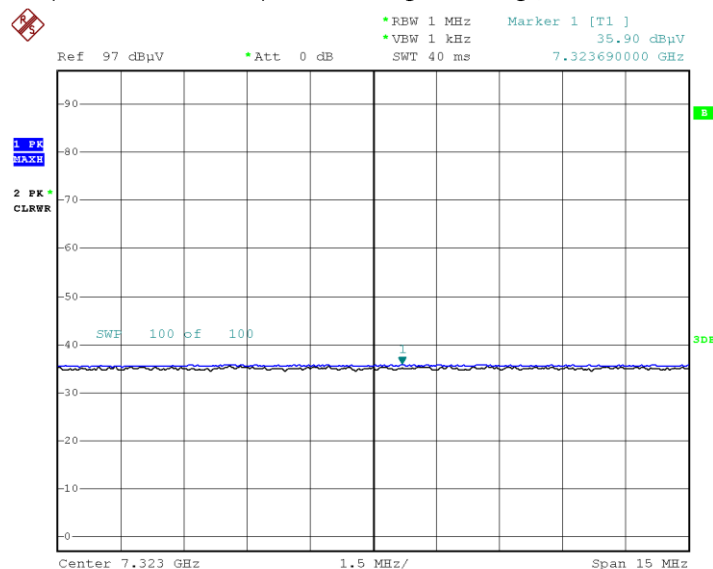


Date: 13.MAY.2019 15:23:42

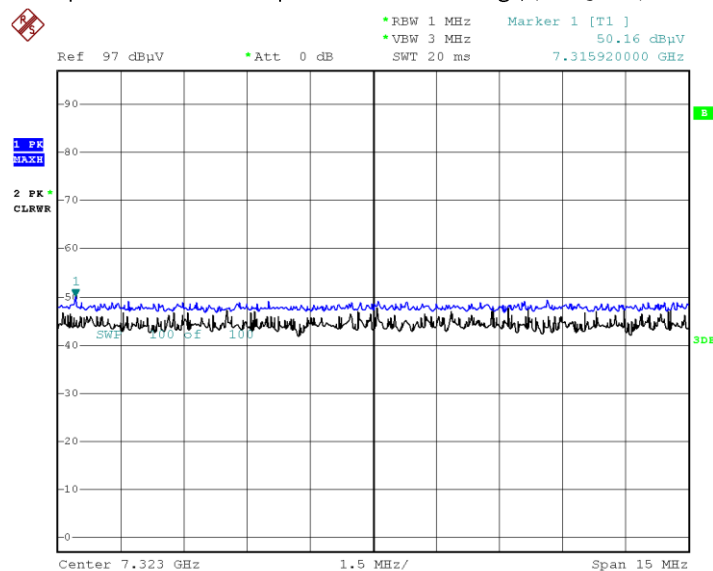
Radiated Spurious Emissions plot – Peak Reading (8DPSK, Ch.39 3rd Harmonic)



Date: 13.MAY.2019 15:23:23

Radiated Spurious Emissions plot – Average Reading (π /4QPSK, Ch.39 3rd Harmonic)


Date: 13.MAY.2019 15:22:08

Radiated Spurious Emissions plot – Peak Reading (π /4QPSK, Ch.39 3rd Harmonic)


Date: 13.MAY.2019 15:22:30

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	53.31	0.85	H	0	54.16	73.98	19.82	PK
2390.0	53.31	0.85	H	-24.73	29.43	53.98	24.55	AV
2390.0	53.14	0.85	V	0	53.99	73.98	19.99	PK
2390.0	53.14	0.85	V	-24.73	29.26	53.98	24.72	AV
2483.5	60.38	1.13	H	0	61.51	73.98	12.47	PK
2483.5	60.38	1.13	H	-24.73	36.78	53.98	17.20	AV
2483.5	62.40	1.13	V	0	63.53	73.98	10.45	PK
2483.5	62.40	1.13	V	-24.73	38.80	53.98	15.18	AV

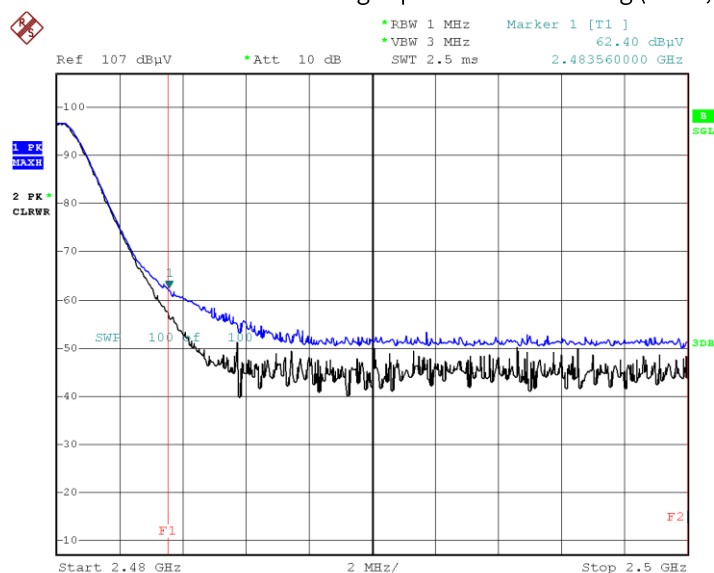
Operation Mode	EDR(8DPSK)
Operating Frequency	2402 MHz, 2480 MHz
Channel No	CH 0, CH 78

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	52.67	0.85	H	0	53.52	73.98	20.46	PK
2390.0	52.67	0.85	H	-24.73	28.79	53.98	25.19	AV
2390.0	52.66	0.85	V	0	53.51	73.98	20.47	PK
2390.0	52.66	0.85	V	-24.73	28.78	53.98	25.20	AV
2483.5	62.35	1.13	H	0	63.48	73.98	10.50	PK
2483.5	62.35	1.13	H	-24.73	38.75	53.98	15.23	AV
2483.5	62.39	1.13	V	0	63.52	73.98	10.46	PK
2483.5	62.39	1.13	V	-24.73	38.79	53.98	15.19	AV

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

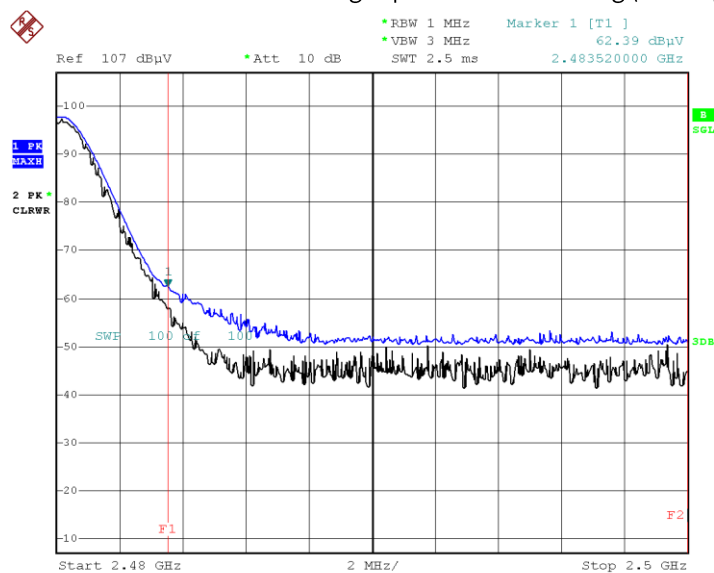
Frequency [MHz]	Reading [dBuV]	A.F + C.L + D.F -AMP+ATT [dB]	Pol. [H/V]	Duty Cycle Correction [dB]	Total [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Measurement Type
2390.0	52.80	0.85	H	0	53.65	73.98	20.33	PK
2390.0	52.80	0.85	H	-24.73	28.92	53.98	25.06	AV
2390.0	52.81	0.85	V	0	53.66	73.98	20.32	PK
2390.0	52.81	0.85	V	-24.73	28.93	53.98	25.05	AV
2483.5	62.02	1.13	H	0	63.15	73.98	10.83	PK
2483.5	62.02	1.13	H	-24.73	38.42	53.98	15.56	AV
2483.5	62.91	1.13	V	0	64.04	73.98	9.94	PK
2483.5	62.91	1.13	V	-24.73	39.31	53.98	14.67	AV

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



Date: 27.MAY.2019 21:00:28

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



Date: 27.MAY.2019 21:02:35

Ref 107 dBuV * Att 10 dB * RBW 1 MHz Marker 1 [T1] 62.91 dBuV
 * VBW 3 MHz SWT 2.5 ms 2.483600000 GHz

1. PK MAX
 2. PK CLRWR

SWF 100 f 10 f

F1 F2

Start 2.48 GHz 2 MHz/ Stop 2.5 GHz

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)

BT_L1

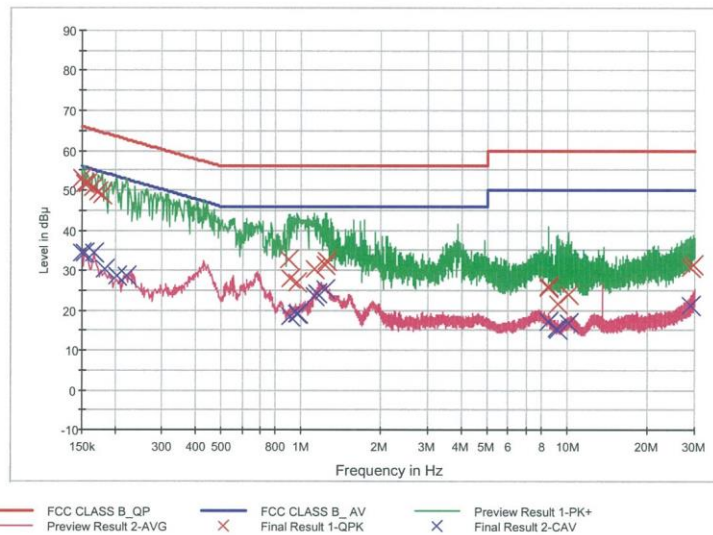
1 / 2

HCT TEST Report

Common Information

EUT: SM-T725
Manufacturer: SAMSUNG
Test Site: SHIELD ROOM
Operating Conditions: BT_L1

FCC CLASS B_Exten Cable



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	53.2	9.000	Off	L1	9.7	12.8	66.0
0.154000	51.8	9.000	Off	L1	9.7	14.0	65.8
0.158000	51.5	9.000	Off	L1	9.7	14.0	65.6
0.164000	50.8	9.000	Off	L1	9.7	14.5	65.3
0.172000	49.6	9.000	Off	L1	9.7	15.3	64.9
0.178000	49.0	9.000	Off	L1	9.7	15.6	64.6
0.900000	32.6	9.000	Off	L1	9.8	23.4	56.0
0.906000	28.0	9.000	Off	L1	9.8	28.0	56.0
0.968000	27.0	9.000	Off	L1	9.8	29.0	56.0
1.124000	30.4	9.000	Off	L1	9.8	25.6	56.0
1.238000	31.5	9.000	Off	L1	9.9	24.5	56.0
1.248000	32.2	9.000	Off	L1	9.9	23.8	56.0
8.448000	25.8	9.000	Off	L1	10.2	34.2	60.0
8.478000	25.6	9.000	Off	L1	10.2	34.4	60.0
9.234000	21.6	9.000	Off	L1	10.2	38.4	60.0
10.052000	23.9	9.000	Off	L1	10.2	36.1	60.0
28.844000	30.6	9.000	Off	L1	10.8	29.4	60.0
29.654000	31.5	9.000	Off	L1	10.9	28.5	60.0

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BT_L1

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	34.5	9.000	Off	L1	9.7	21.5	56.0
0.154000	34.5	9.000	Off	L1	9.7	21.3	55.8
0.166000	34.3	9.000	Off	L1	9.7	20.9	55.2
0.182000	30.2	9.000	Off	L1	9.7	24.2	54.4
0.204000	28.5	9.000	Off	L1	9.7	25.0	53.4
0.220000	28.5	9.000	Off	L1	9.7	24.3	52.8
0.906000	18.6	9.000	Off	L1	9.8	27.4	46.0
0.968000	19.0	9.000	Off	L1	9.8	27.0	46.0
0.980000	19.2	9.000	Off	L1	9.8	26.8	46.0
1.124000	23.7	9.000	Off	L1	9.8	22.3	46.0
1.142000	24.3	9.000	Off	L1	9.8	21.7	46.0
1.238000	25.4	9.000	Off	L1	9.9	20.6	46.0
8.448000	17.2	9.000	Off	L1	10.2	32.8	50.0
8.478000	17.1	9.000	Off	L1	10.2	32.9	50.0
9.090000	15.4	9.000	Off	L1	10.2	34.6	50.0
9.234000	15.2	9.000	Off	L1	10.2	34.8	50.0
10.052000	16.7	9.000	Off	L1	10.2	33.3	50.0
28.844000	21.3	9.000	Off	L1	10.8	28.7	50.0

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Conducted Emissions (Line 2)

BT_N

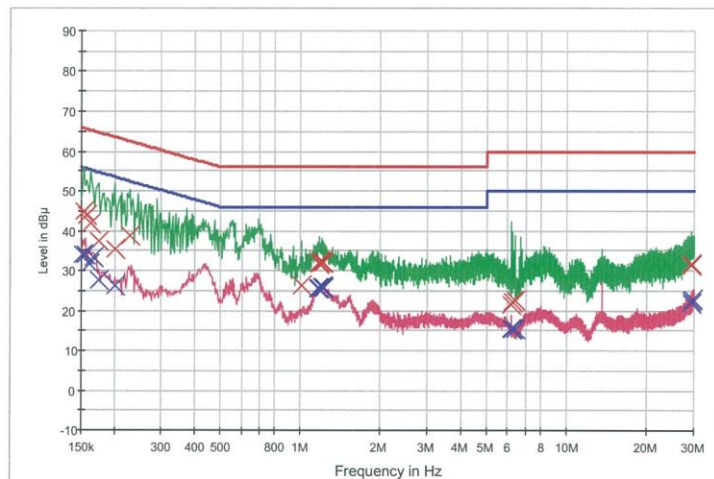
1 / 2

HCT TEST Report

Common Information

EUT: SM-T725
 Manufacturer: SAMSUNG
 Test Site: SHIELD ROOM
 Operating Conditions: BT_N

FCC CLASS B_Exten Cable



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

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.154000	45.0	9.000	Off	N	9.8	20.8	65.8
0.158000	44.1	9.000	Off	N	9.8	21.5	65.6
0.162000	41.9	9.000	Off	N	9.8	23.5	65.4
0.174000	37.5	9.000	Off	N	9.8	27.3	64.8
0.200000	35.5	9.000	Off	N	9.9	28.1	63.6
0.228000	38.8	9.000	Off	N	9.9	23.7	62.5
1.010000	26.1	9.000	Off	N	10.0	29.9	56.0
1.172000	32.1	9.000	Off	N	10.0	23.9	56.0
1.176000	31.6	9.000	Off	N	10.0	24.4	56.0
1.196000	31.9	9.000	Off	N	10.0	24.1	56.0
1.200000	32.2	9.000	Off	N	10.0	23.8	56.0
1.218000	32.0	9.000	Off	N	10.0	24.0	56.0
6.180000	21.7	9.000	Off	N	10.3	38.3	60.0
6.262000	22.1	9.000	Off	N	10.3	37.9	60.0
6.416000	22.4	9.000	Off	N	10.3	37.6	60.0
29.190000	31.3	9.000	Off	N	11.1	28.7	60.0
29.248000	31.5	9.000	Off	N	11.1	28.5	60.0
29.444000	31.6	9.000	Off	N	11.1	28.4	60.0

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BT_N

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Final Result 2

Frequency (MHz)	CAverage (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.152000	34.1	9.000	Off	N	9.8	21.7	55.9
0.156000	34.0	9.000	Off	N	9.8	21.7	55.7
0.160000	31.8	9.000	Off	N	9.8	23.6	55.5
0.166000	33.3	9.000	Off	N	9.8	21.9	55.2
0.174000	27.6	9.000	Off	N	9.8	27.2	54.8
0.200000	26.2	9.000	Off	N	9.9	27.4	53.6
1.168000	25.5	9.000	Off	N	10.0	20.5	46.0
1.176000	25.7	9.000	Off	N	10.0	20.3	46.0
1.198000	25.9	9.000	Off	N	10.0	20.1	46.0
1.210000	26.0	9.000	Off	N	10.0	20.0	46.0
1.214000	26.0	9.000	Off	N	10.0	20.0	46.0
1.218000	25.6	9.000	Off	N	10.0	20.4	46.0
6.180000	15.4	9.000	Off	N	10.3	34.6	50.0
6.262000	15.3	9.000	Off	N	10.3	34.7	50.0
6.416000	15.6	9.000	Off	N	10.3	34.4	50.0
29.190000	22.0	9.000	Off	N	11.1	28.0	50.0
29.444000	22.5	9.000	Off	N	11.1	27.5	50.0
29.670000	22.9	9.000	Off	N	11.2	27.1	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	06/27/2018	Annual	100033
ESPAC	SU-642 / Temperature Chamber	03/12/2019	Annual	0093008124
Agilent	N9020A / Signal Analyzer	06/08/2018	Annual	MY51110085
Agilent	N9030A / Signal Analyzer	11/20/2018	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	06/07/2018	Annual	05001
Hewlett Packard	E3632A / DC Power Supply	06/26/2018	Annual	KR75303960
WEINSCHEL	2-20 / Attenuator(20 dB)	10/26/2018	Annual	BR0592
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	03/07/2019	Annual	100808

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
Audix	EM1000 / Controller	N/A	N/A	060520
Audix	Turn Table	N/A	N/A	N/A
Rohde & Schwarz	Loop Antenna	08/23/2018	Biennial	1513-175
Schwarzbeck	VULB 9168 / Hybrid Antenna	08/31/2018	Biennial	00895
Schwarzbeck	VULB 9168 / Hybrid Antenna	08/09/2018	Annual	3368
Schwarzbeck	BBHA 9120D / Horn Antenna	06/30/2017	Biennial	1300
Schwarzbeck	BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)	12/04/2017	Biennial	BBHA9170541
Rohde & Schwarz	FSP(9 kHz ~ 40 GHz) / Spectrum Analyzer	07/24/2018	Annual	100843
Wainwright Instruments	WHK3.0/18G-10EF / High Pass Filter	01/03/2019	Annual	F6
Wainwright Instruments	WHFX7.0/18G-8SS / High Pass Filter	05/03/2019	Annual	29
Wainwright Instruments	WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter	06/29/2018	Annual	2
Wainwright Instruments	WRCJV5100/5850-40/50-8EEK / Band Reject Filter	01/03/2019	Annual	2
Weinschel	2-3 / Attenuator (3 dB)	10/10/2018	Annual	BR0617
H+S	5910-N-50-010 / Attenuator(10 dB)	11/08/2018	Annual	NONE
CERNEX	CBLU1183540B-01 / Power Amplifier	12/21/2018	Annual	25540
CERNEX	CBL06185030 / Power Amplifier	03/26/2019	Annual	28550
CERNEX	CBL18265035 / Power Amplifier	01/03/2019	Annual	22966
CERNEX	CBL26405040 / Power Amplifier	06/29/2018	Annual	25956
TESCOM	TC-3000C / Bluetooth Tester	03/26/2019	Annual	3000C000276

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.

12. ANNEX A_ TEST SETUP PHOTO

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

No.	Description
1	HCT-RF-1907-FI005-P