

9 kHz ~ 25 GHz Data (Modulation : 8DPSK) _ Antenna 3

▪ Lowest Channel

Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	D.C.F (dB)	Distance Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2323.93	V	Z	PK	52.59	2.22	N/A	N/A	54.81	74.00	19.19
2323.93	V	Z	AV	52.59	2.22	-24.79	N/A	30.02	54.00	23.98
4803.92	H	Y	PK	49.43	1.63	N/A	N/A	51.06	74.00	22.94
4803.92	H	Y	AV	49.43	1.63	-24.79	N/A	26.27	54.00	27.73
9608.07	V	X	PK	45.89	4.96	N/A	N/A	50.85	74.00	23.15
9608.07	V	X	AV	45.89	4.96	-24.79	N/A	26.06	54.00	27.94
12010.01	H	Y	PK	46.03	8.68	N/A	N/A	54.71	74.00	19.29
12010.01	H	Y	AV	46.03	8.68	-24.79	N/A	29.92	54.00	24.08

▪ Middle Channel

Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	D.C.F (dB)	Distance Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
4881.81	H	Y	PK	51.17	1.61	N/A	N/A	52.78	74.00	21.22
4881.81	H	Y	AV	51.17	1.61	-24.79	N/A	27.99	54.00	26.01
9763.68	V	X	PK	48.08	5.34	N/A	N/A	53.42	74.00	20.58
9763.68	V	X	AV	48.08	5.34	-24.79	N/A	28.63	54.00	25.37
12204.71	H	Y	PK	45.99	8.87	N/A	N/A	54.86	74.00	19.14
12204.71	H	Y	AV	45.99	8.87	-24.79	N/A	30.07	54.00	23.93

▪ Highest Channel

Frequency (MHz)	ANT Pol	EUT Position (Axis)	Detector Mode	Reading (dBuV)	T.F (dB/m)	D.C.F (dB)	Distance Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
2483.60	V	Z	PK	52.18	3.26	N/A	N/A	55.44	74.00	18.56
2483.60	V	Z	AV	52.18	3.26	-24.79	N/A	30.65	54.00	23.35
4960.34	H	Y	PK	50.72	1.75	N/A	N/A	52.47	74.00	21.53
4960.34	H	Y	AV	50.72	1.75	-24.79	N/A	27.68	54.00	26.32
9920.27	V	X	PK	48.71	5.72	N/A	N/A	54.43	74.00	19.57
9920.27	V	X	AV	48.71	5.73	-24.79	N/A	29.65	54.00	24.35
12399.87	H	Y	PK	45.52	9.07	N/A	N/A	54.59	74.00	19.41
12399.87	H	Y	AV	45.52	9.07	-24.79	N/A	29.80	54.00	24.20

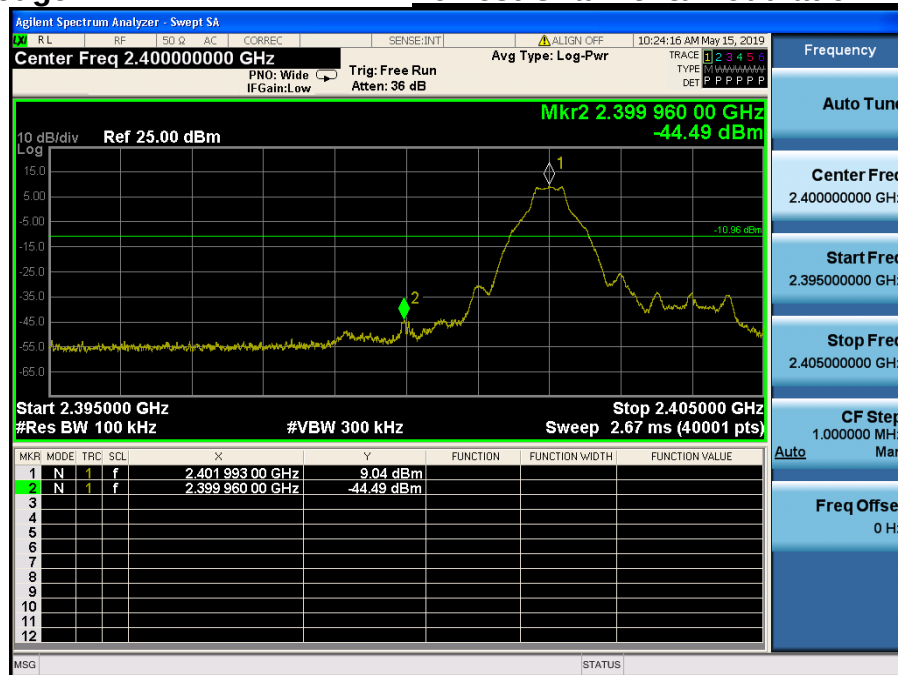
▪ Note.

- The radiated emissions were investigated up to 25 GHz. And no other spurious and harmonic emissions were found above listed frequencies.
- Information of Distance Factor
For finding emissions, the test distance might be reduced from 3m to 1m. In this case, the distance factor(-9.54dB) is applied to the result.
- Calculation of distance factor = $20 \log(\text{applied distance} / \text{required distance}) = 20 \log(1 \text{ m} / 3 \text{ m}) = -9.54 \text{ dB}$
When distance factor is "N/A", the distance is 3 m and distance factor is not applied.
- D.C.F Calculation. (D.C.F = Duty Cycle Correction Factor)
- Time to cycle through all channels = $\Delta t = T [\text{ms}] \times 20 \text{ minimum hopping channels}$, where T = pulse width = **2.88 ms**
- $100 \text{ ms} / \Delta t [\text{ms}] = H \rightarrow$ Round up to next highest integer, to account for worst case, $H' = 100 / (2.88 \times 20) = 1.74 \approx 2$
- The Worst Case Dwell Time = $T [\text{ms}] \times H' = 2.88 \text{ ms} \times 2 = 5.76 \text{ ms}$
- D.C.F = $20 \log(\text{The Worst Case Dwell Time} / 100 \text{ ms}) \text{ dB} = 20 \log(5.76 / 100) = -24.79 \text{ dB}$
- Sample Calculation.
Margin = Limit – Result / Result = Reading + T.F + D.C.F / T.F = AF + CL – AG
Where, T.F = Total Factor, AF = Antenna Factor, CL = Cable Loss, AG = Amplifier Gain.

7.4.2. Conducted Spurious Emissions

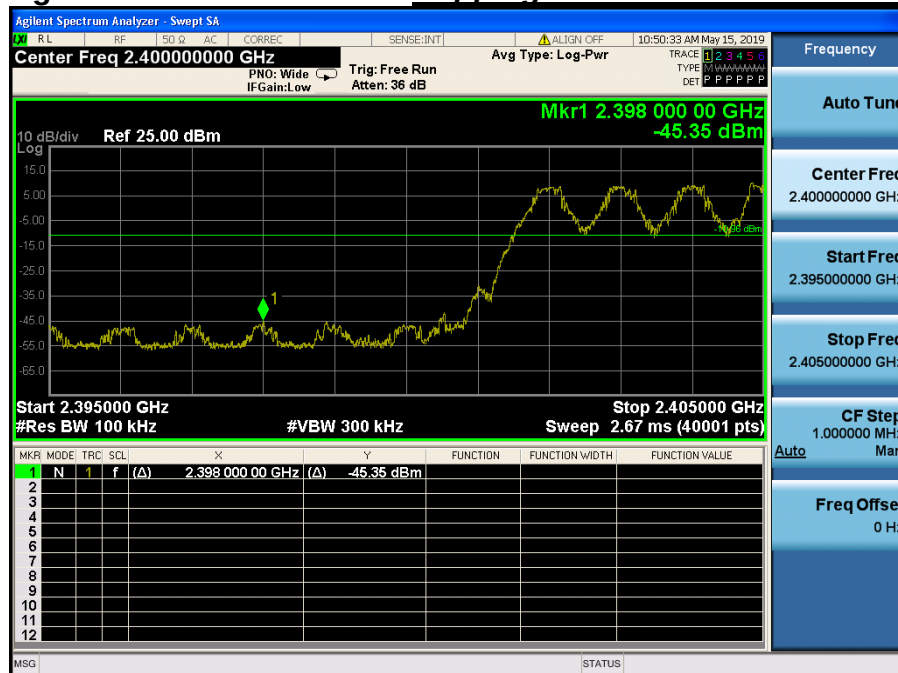
Low Band-edge

Lowest Channel & Modulation : GFSK

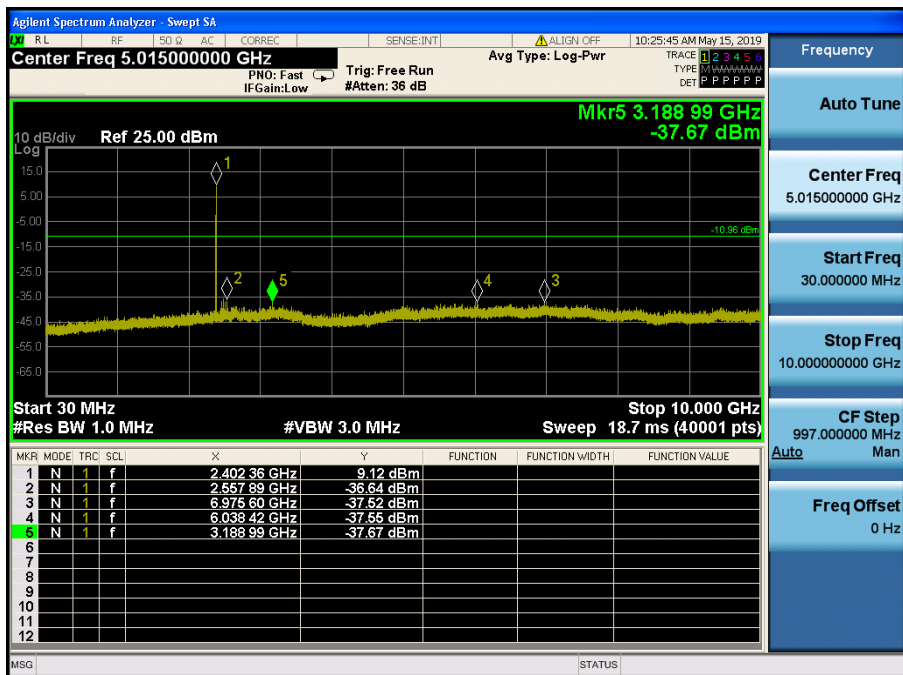
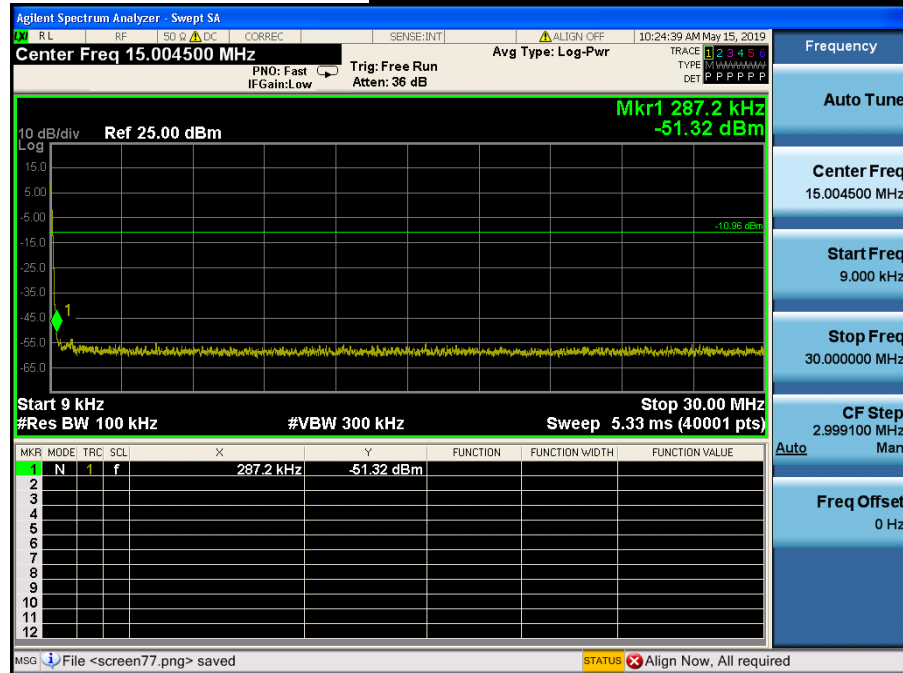


Low Band-edge

Hopping mode & Modulation : GFSK



Conducted Spurious Emissions

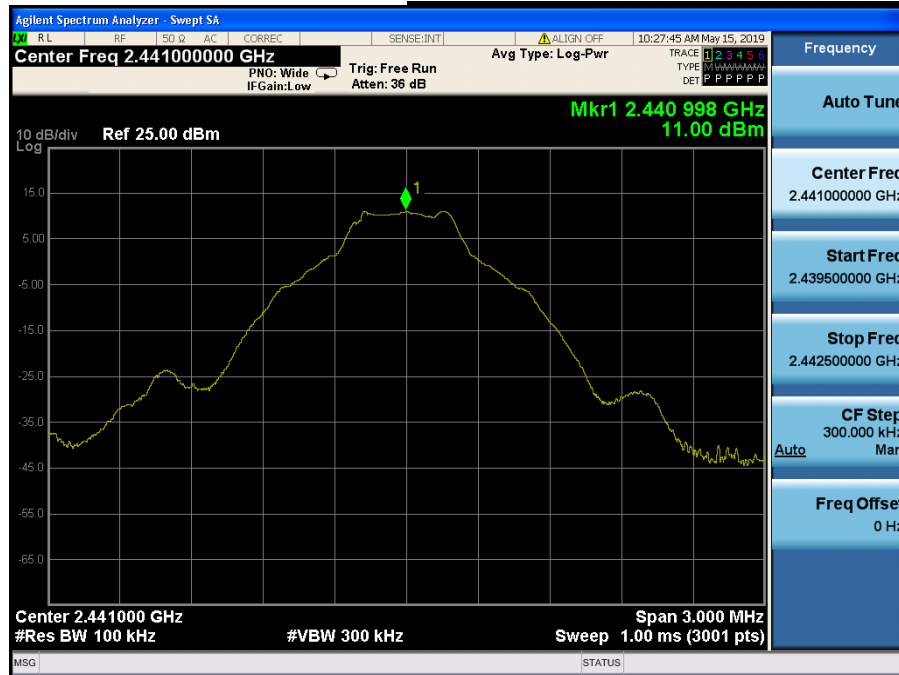
Lowest Channel & Modulation : GFSK

Conducted Spurious Emissions *Lowest Channel & Modulation : GFSK*



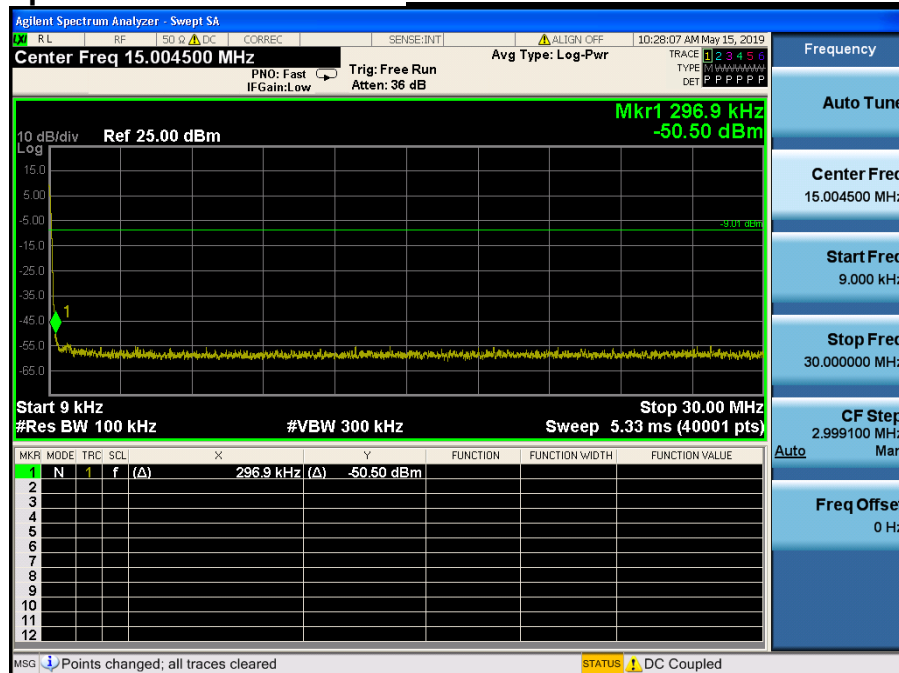
Reference for limit

Middle Channel & Modulation : GFSK



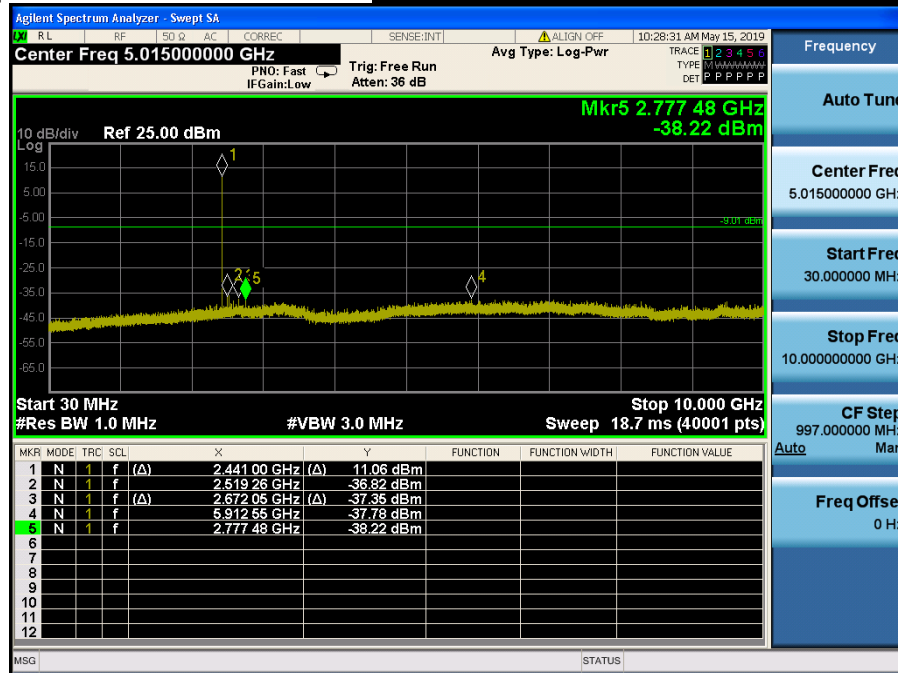
Conducted Spurious Emissions

Middle Channel & Modulation : GFSK

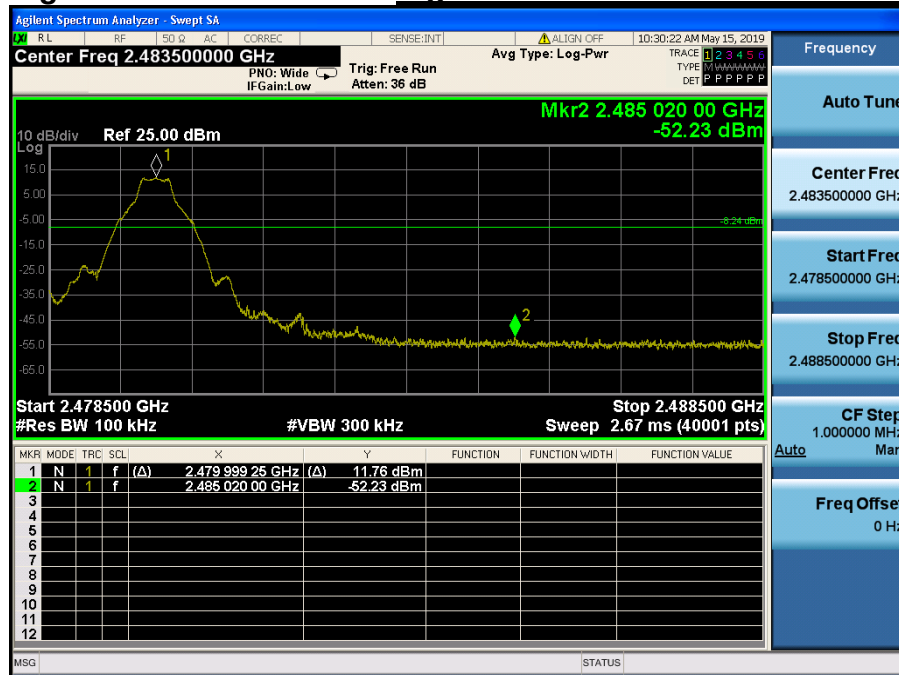


Conducted Spurious Emissions

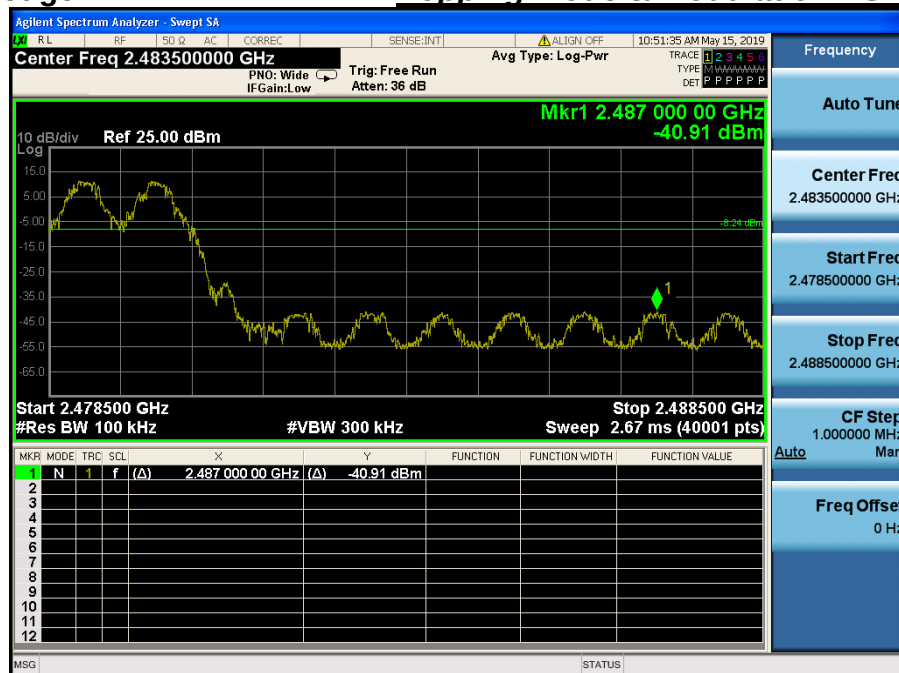
Middle Channel & Modulation : GFSK



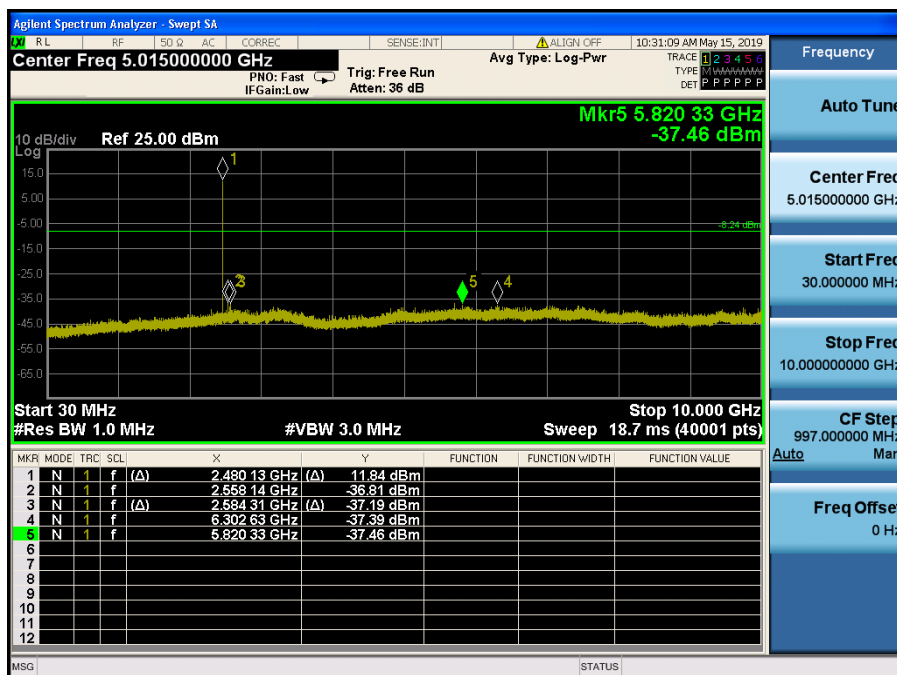
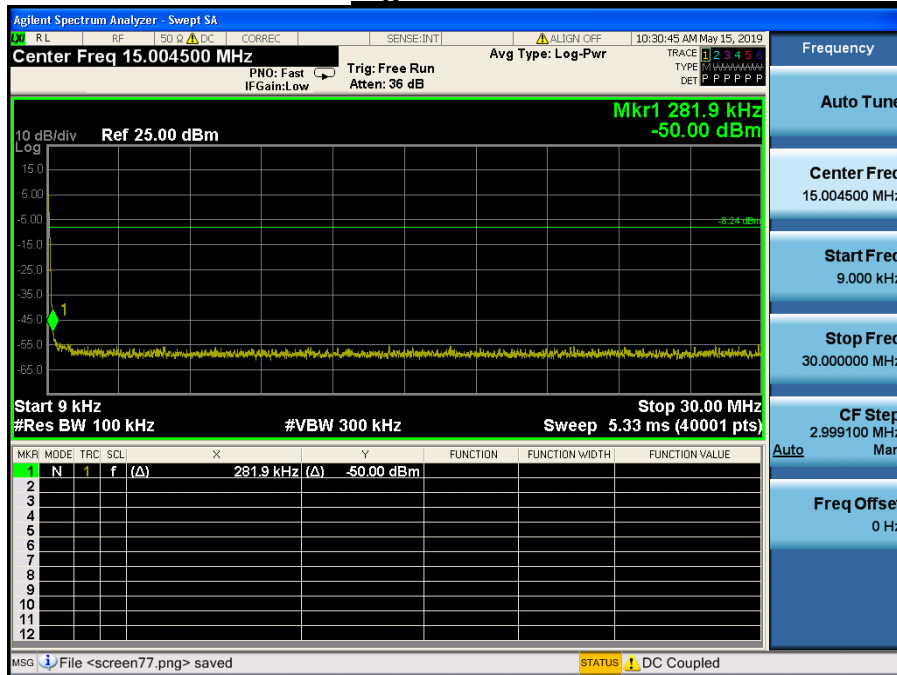
High Band-edge

Highest Channel & Modulation : GFSK

High Band-edge

Hopping mode & Modulation : GFSK

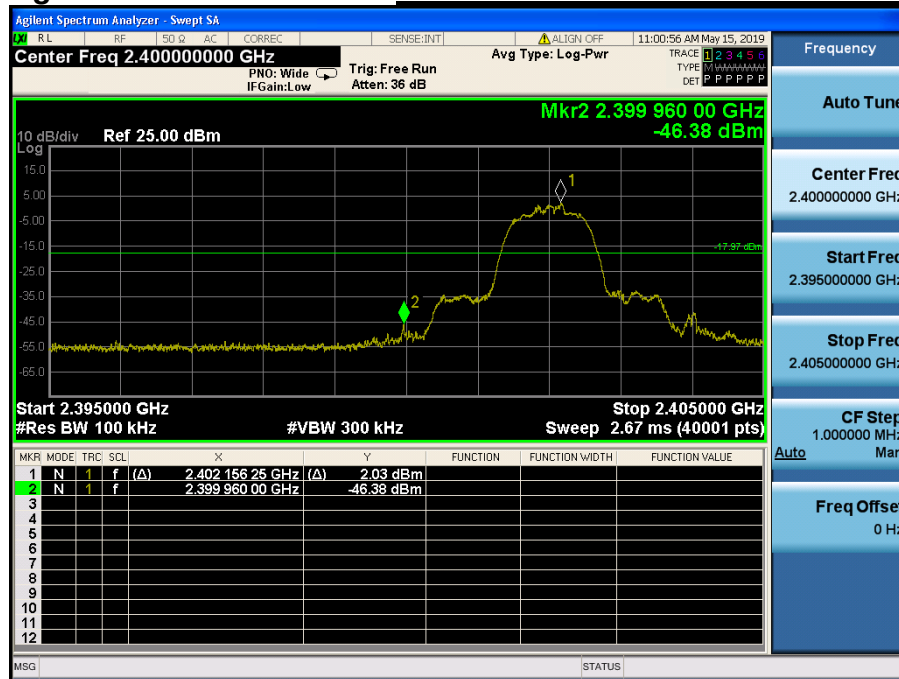
Conducted Spurious Emissions Highest Channel & Modulation : GFSK



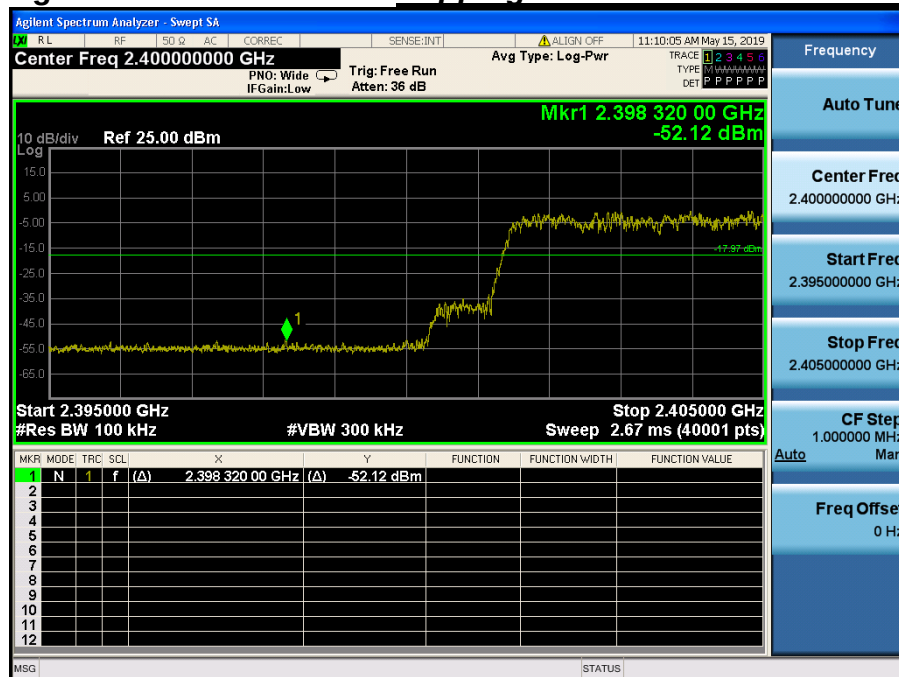
Conducted Spurious Emissions *Highest Channel & Modulation : GFSK*



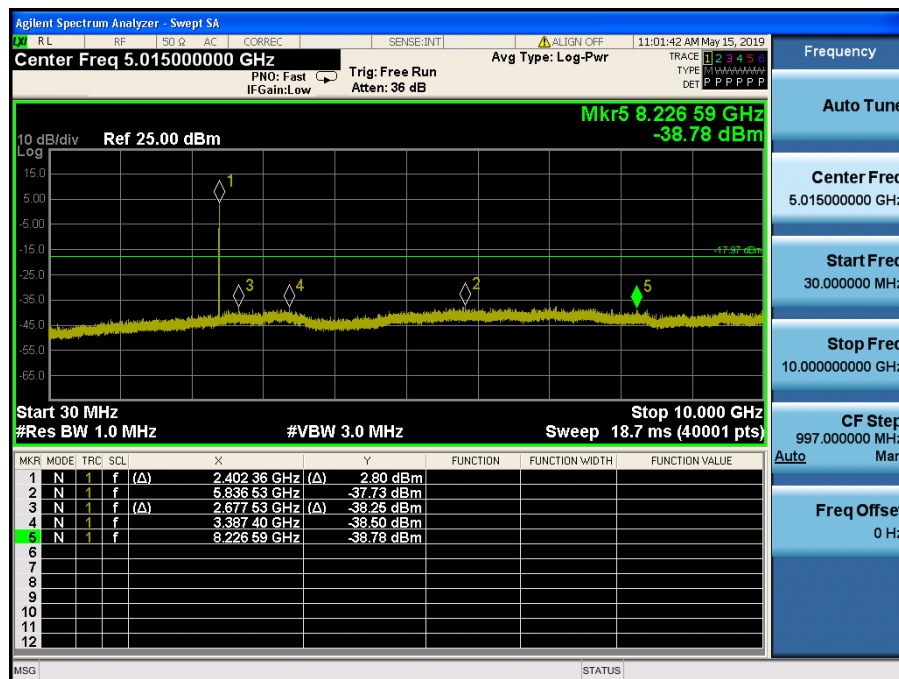
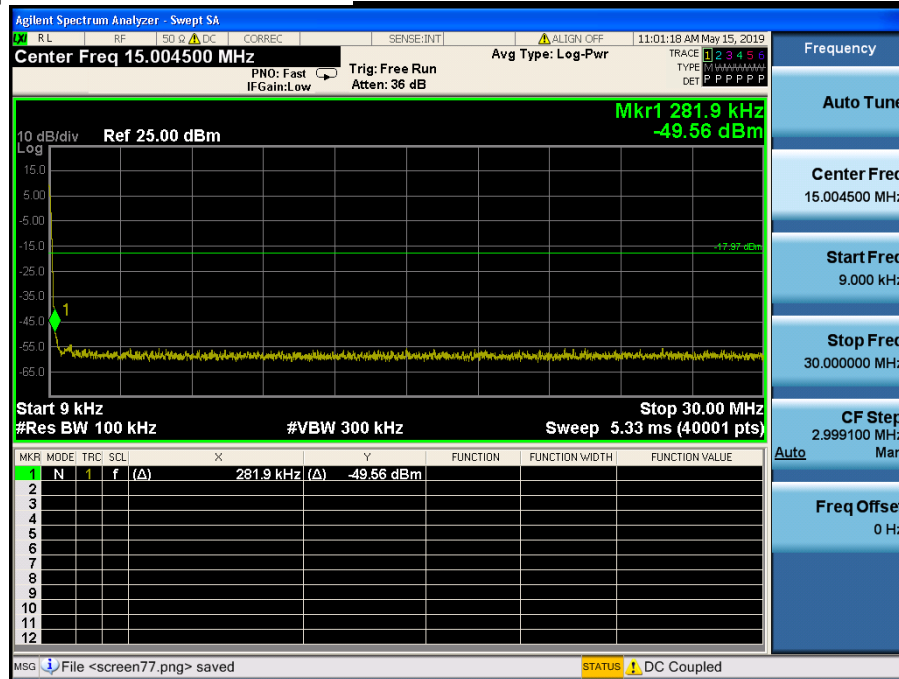
Low Band-edge

Lowest Channel & Modulation : $\pi/4$ DQPSK

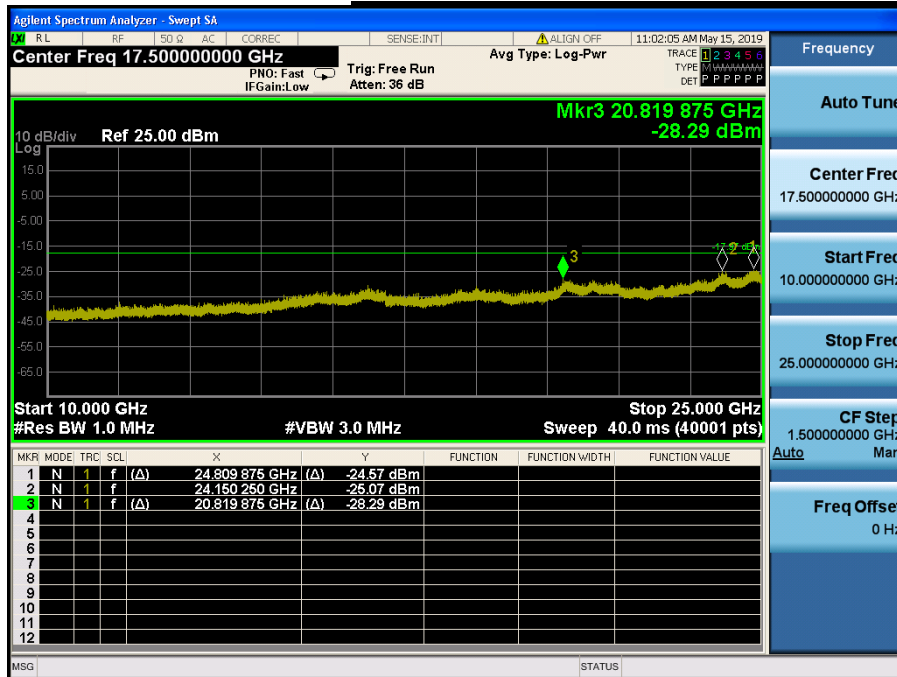
Low Band-edge

Hopping mode & Modulation : $\pi/4$ DQPSK

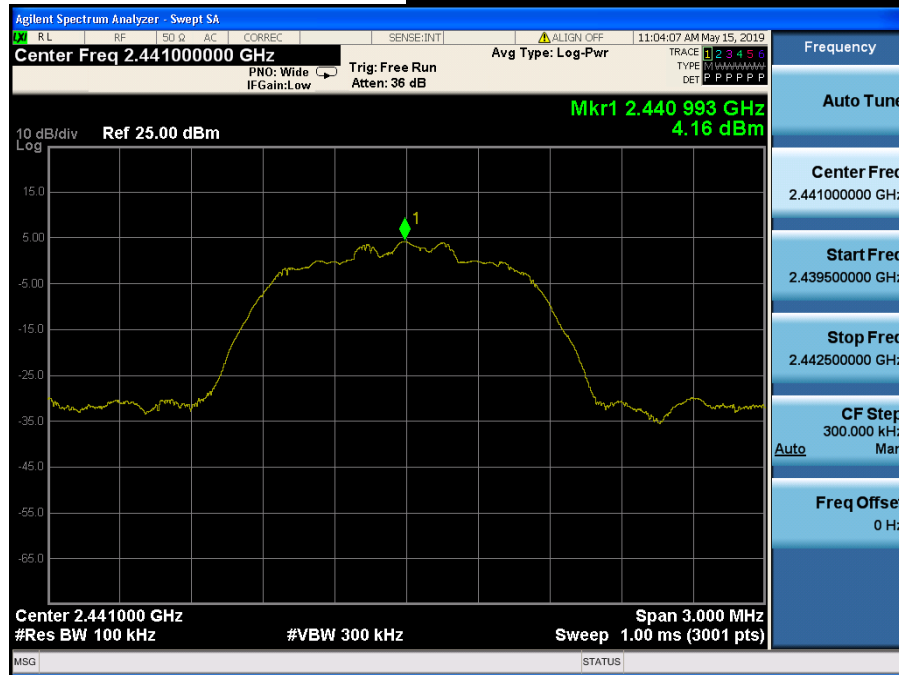
Conducted Spurious Emissions *Lowest Channel & Modulation : $\pi/4$ DQPSK*



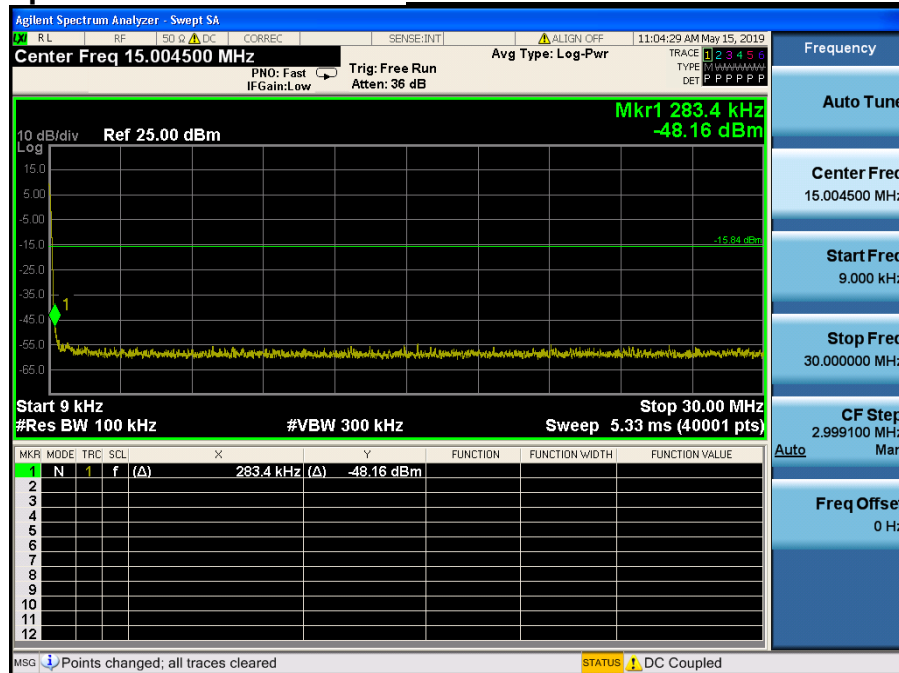
Conducted Spurious Emissions *Lowest Channel & Modulation : $\pi/4$ DQPSK*



Reference for limit

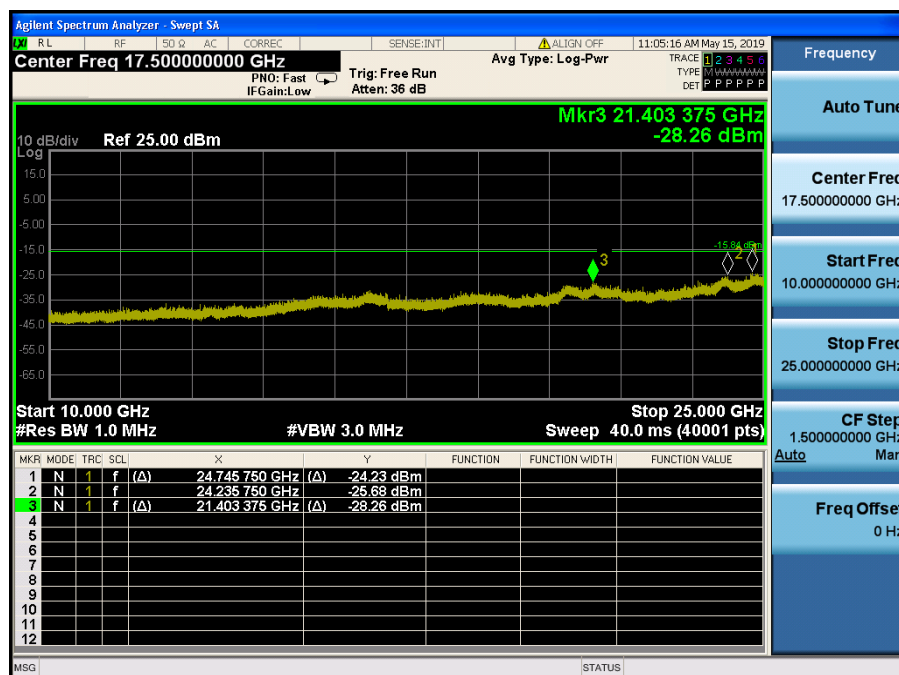
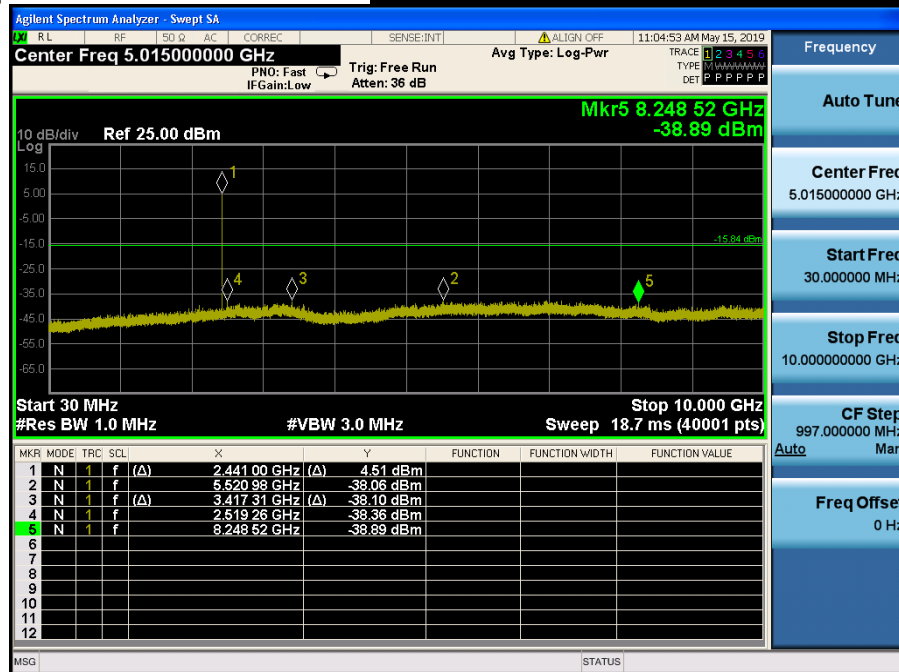
Middle Channel & Modulation : $\pi/4$ DQPSK

Conducted Spurious Emissions

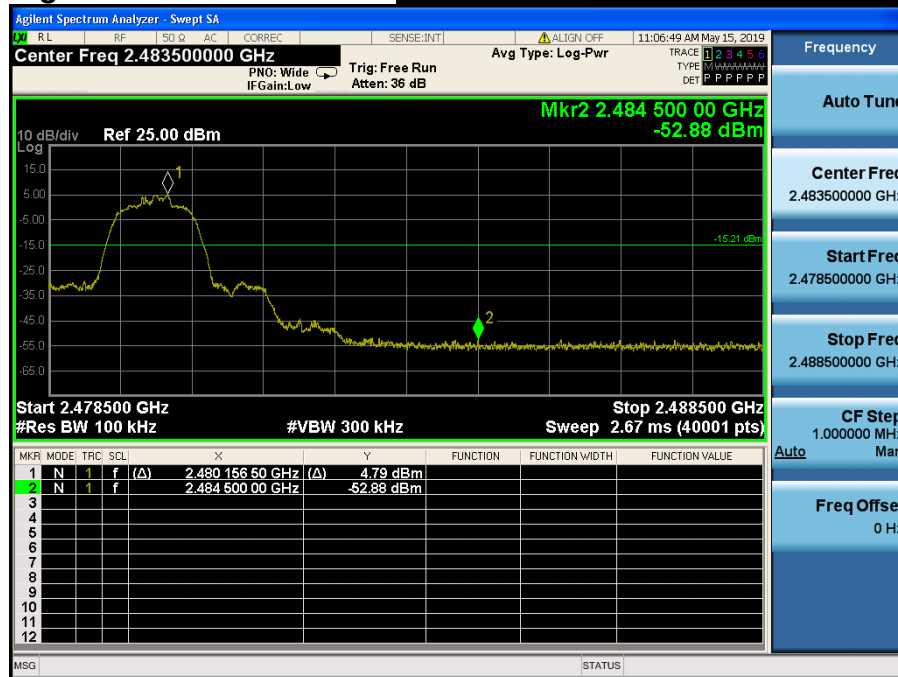
Middle Channel & Modulation : $\pi/4$ DQPSK

Conducted Spurious Emissions

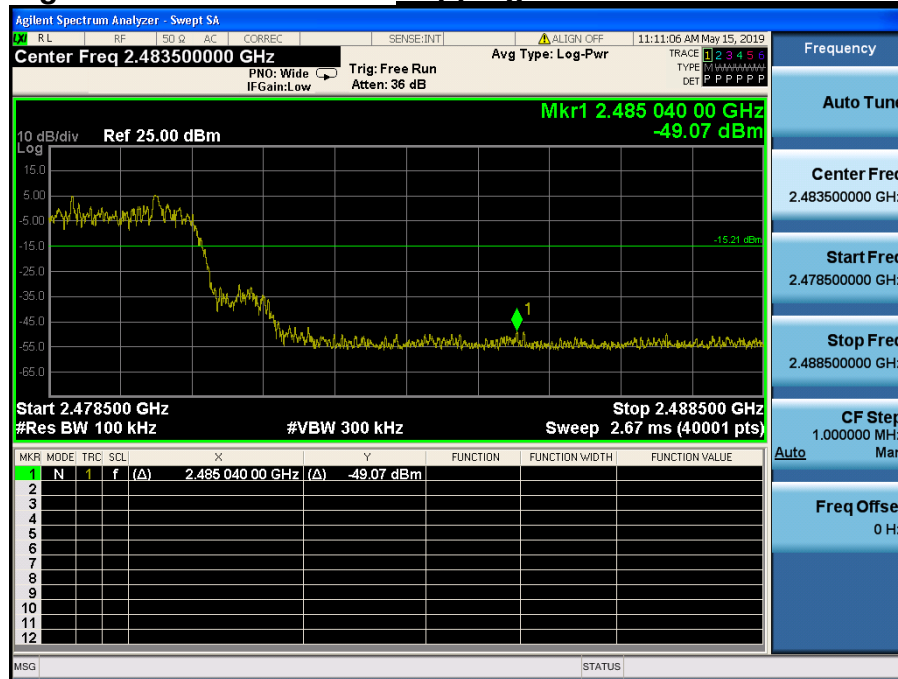
Middle Channel & Modulation : $\pi/4$ DQPSK



High Band-edge

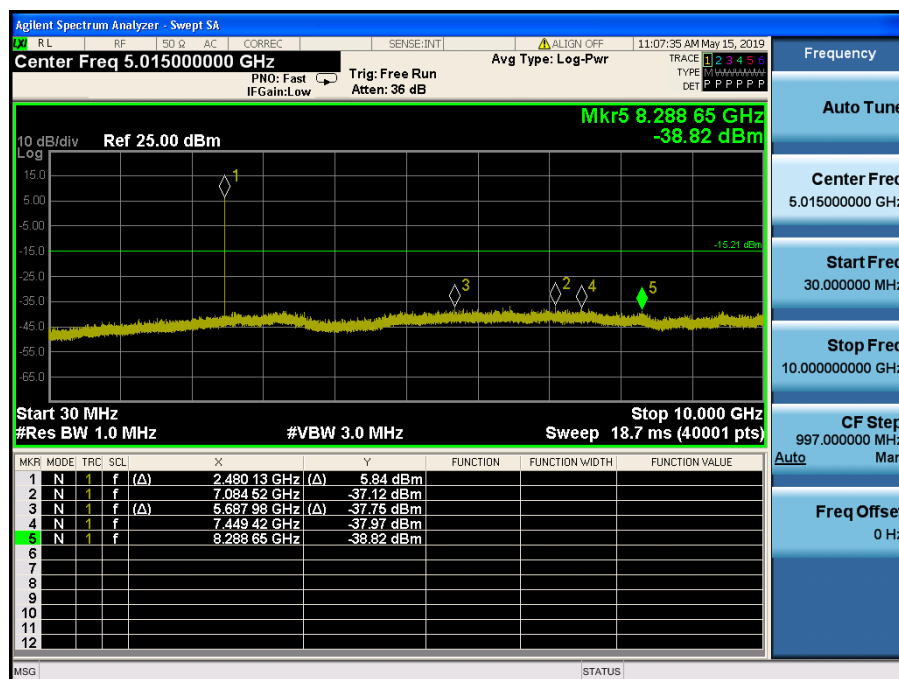
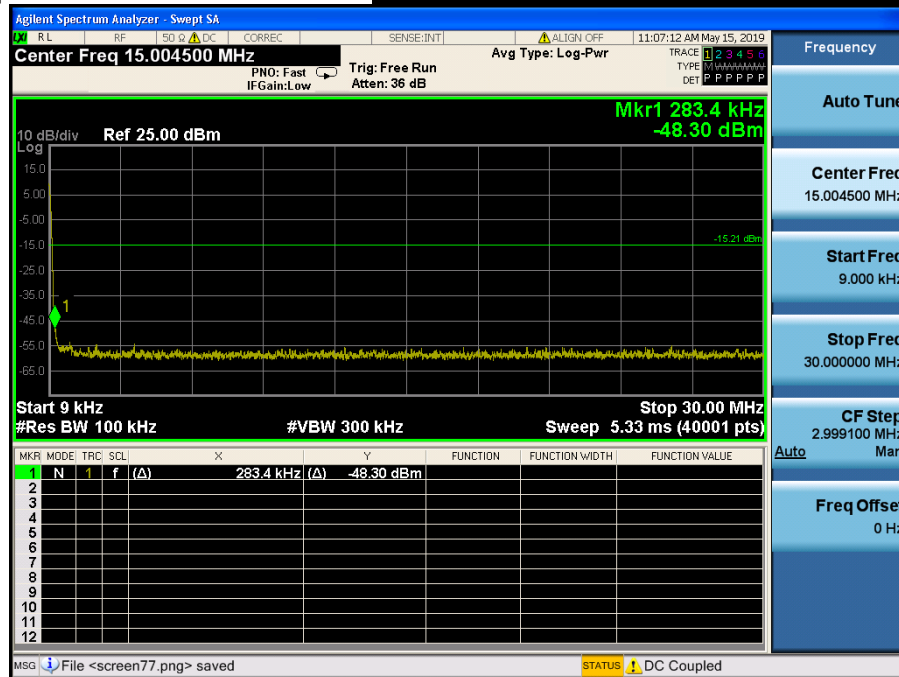
Highest Channel & Modulation : $\pi/4$ DQPSK

High Band-edge

Hopping mode & Modulation : $\pi/4$ DQPSK

Conducted Spurious Emissions

Highest Channel & Modulation : $\pi/4$ DQPSK



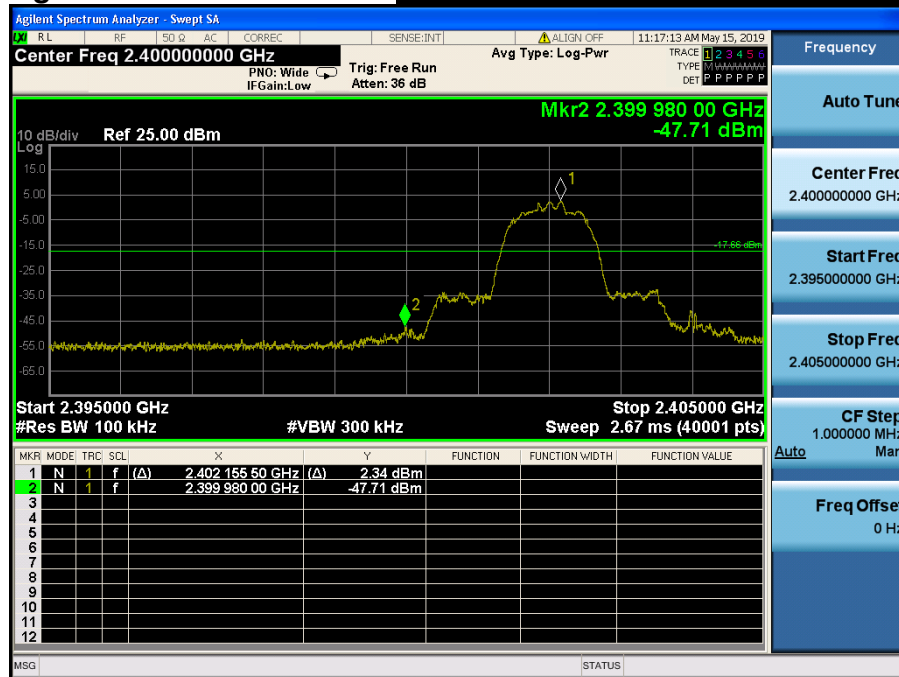
Conducted Spurious Emissions

Highest Channel & Modulation : $\pi/4$ DQPSK



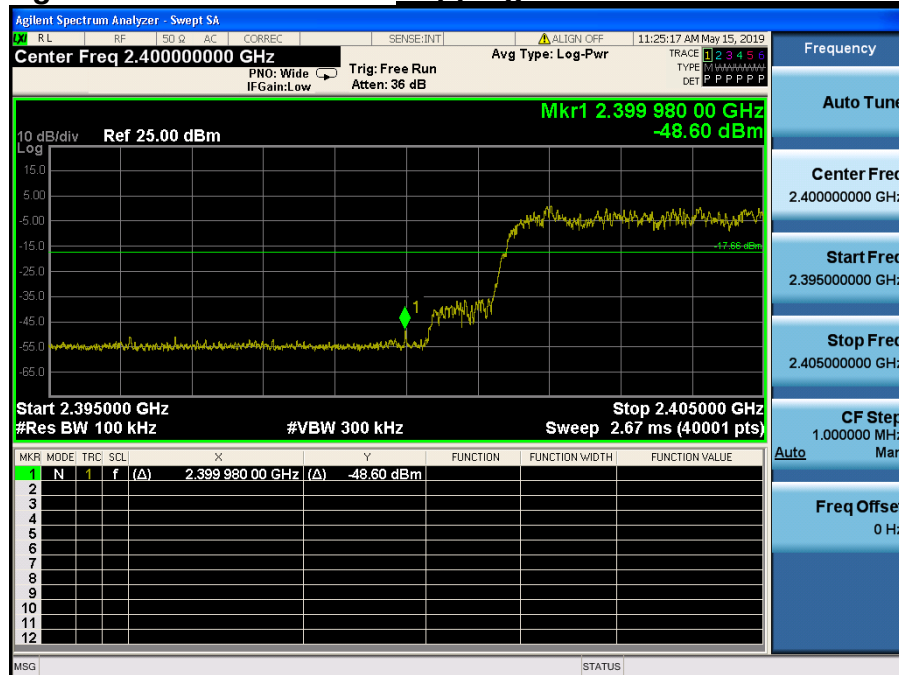
Low Band-edge

Lowest Channel & Modulation : 8DPSK

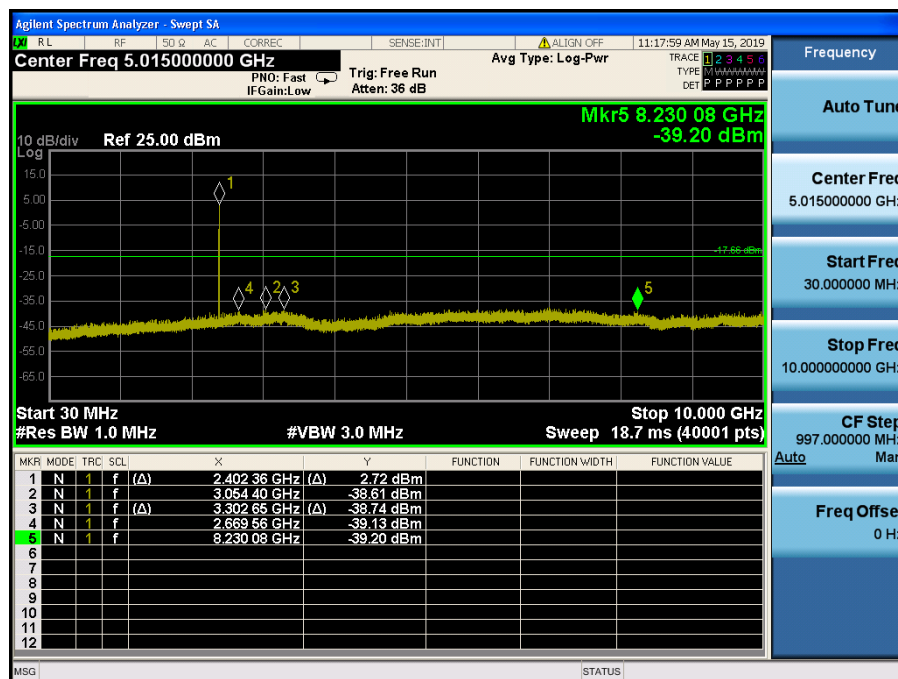
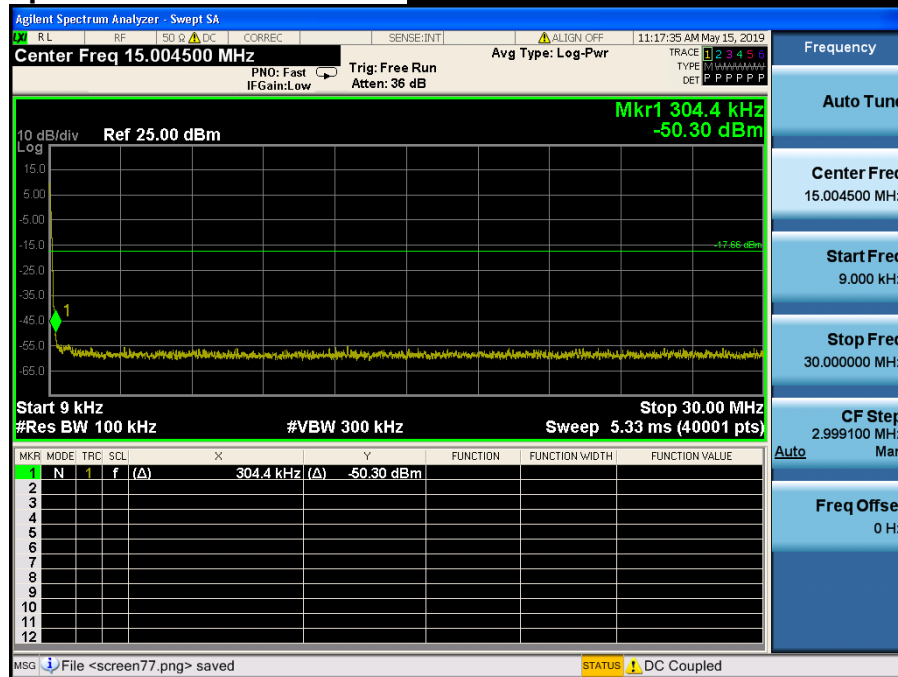


Low Band-edge

Hopping mode & Modulation : 8DPSK

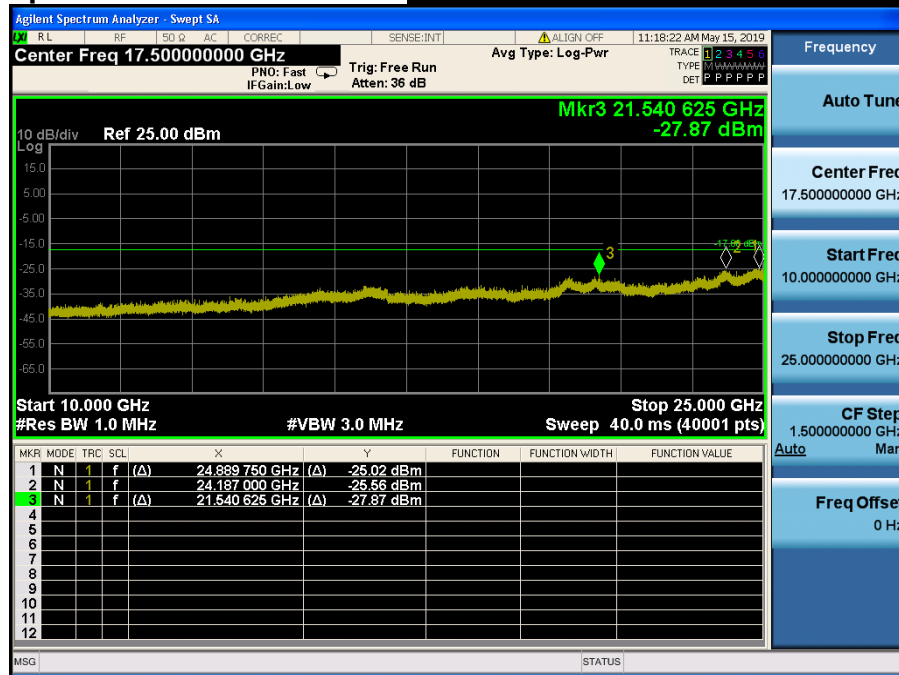


Conducted Spurious Emissions

Lowest Channel & Modulation : 8DPSK

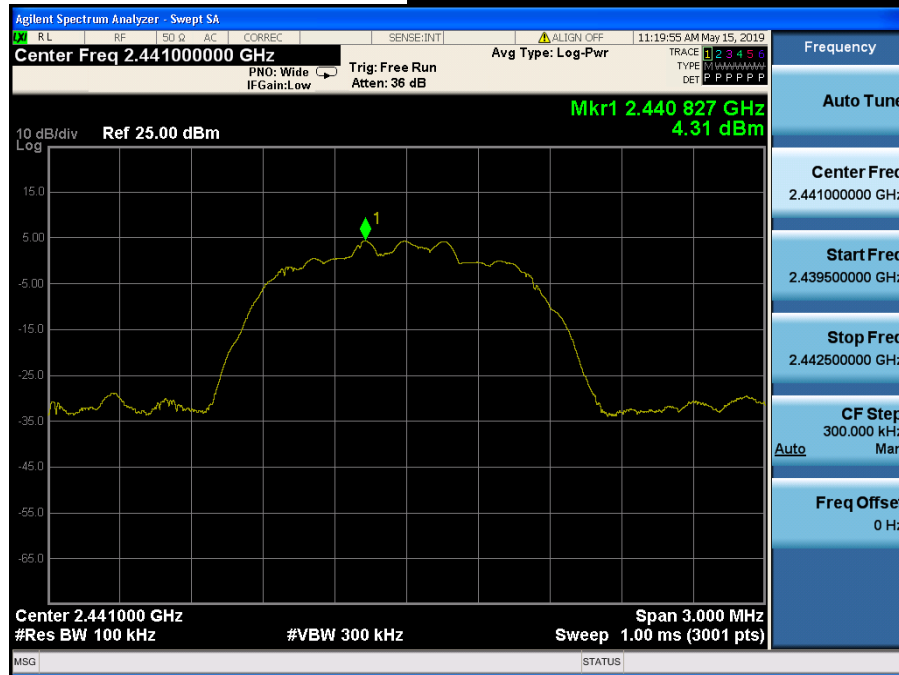
Conducted Spurious Emissions

Lowest Channel & Modulation : 8DPSK



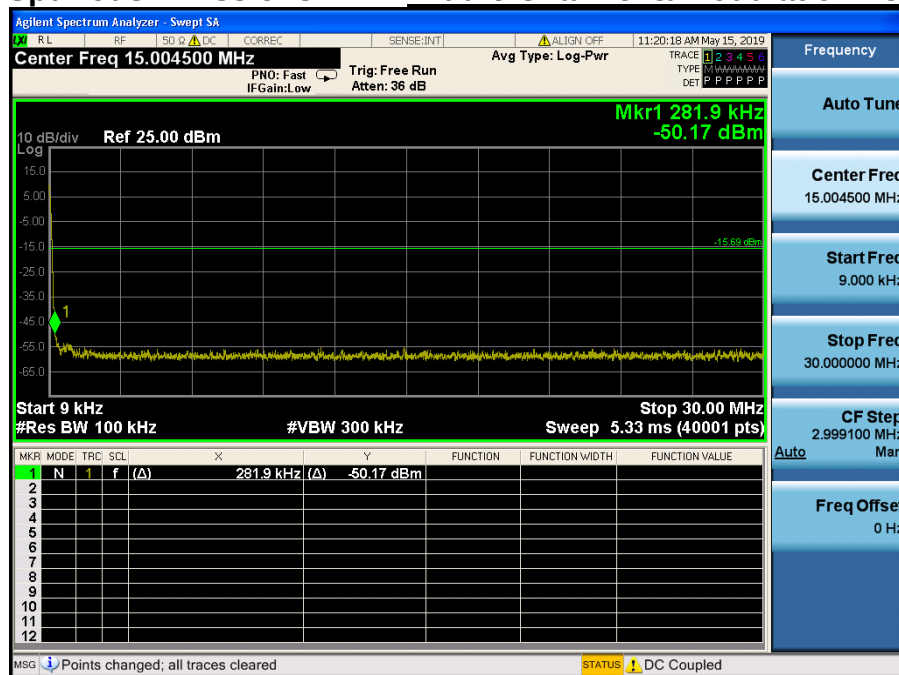
Reference for limit

Middle Channel & Modulation : 8DPSK



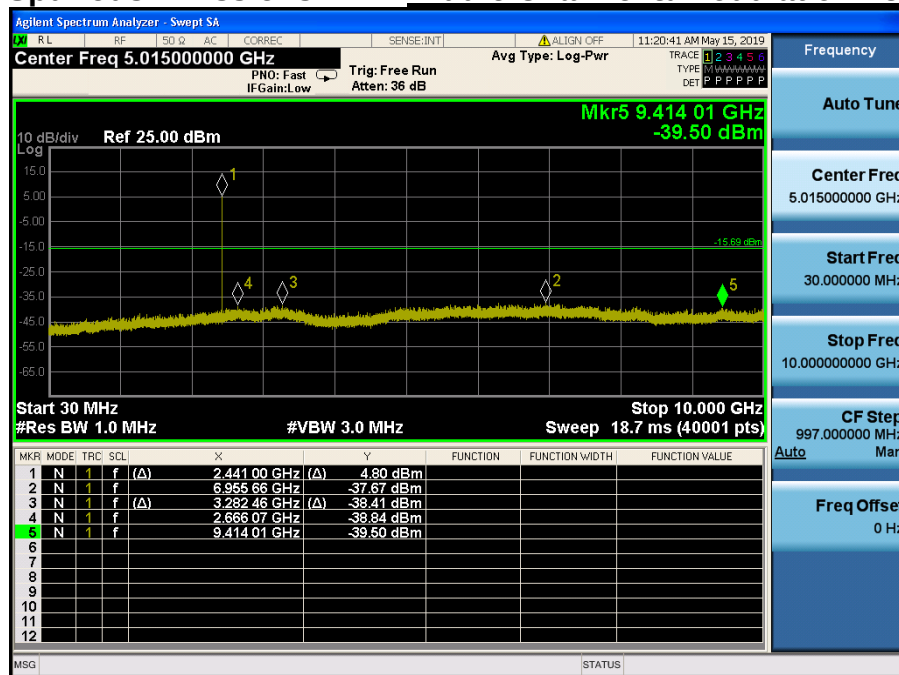
Conducted Spurious Emissions

Middle Channel & Modulation : 8DPSK

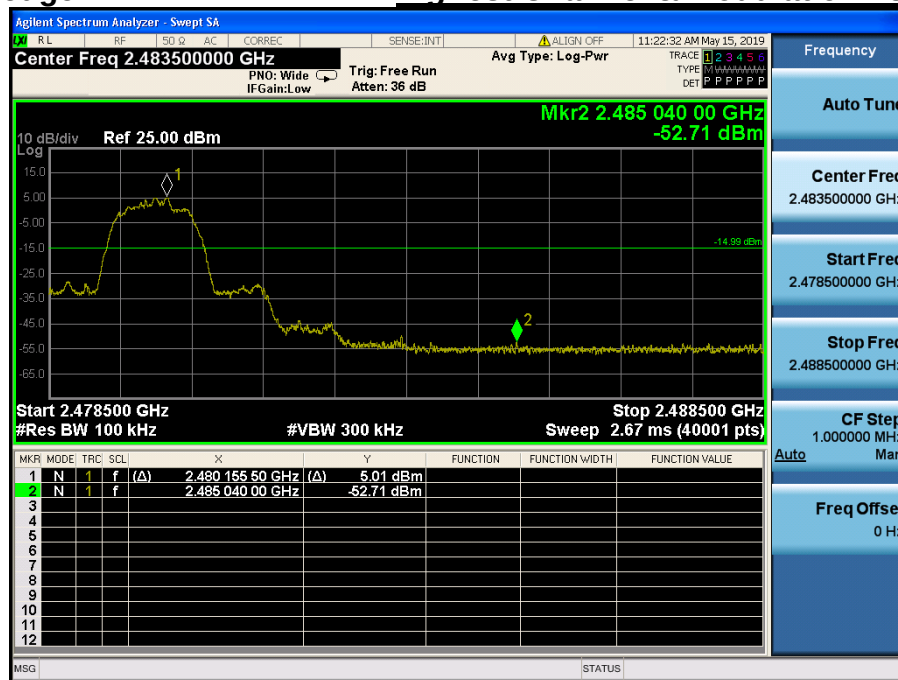


Conducted Spurious Emissions

Middle Channel & Modulation : 8DPSK



High Band-edge

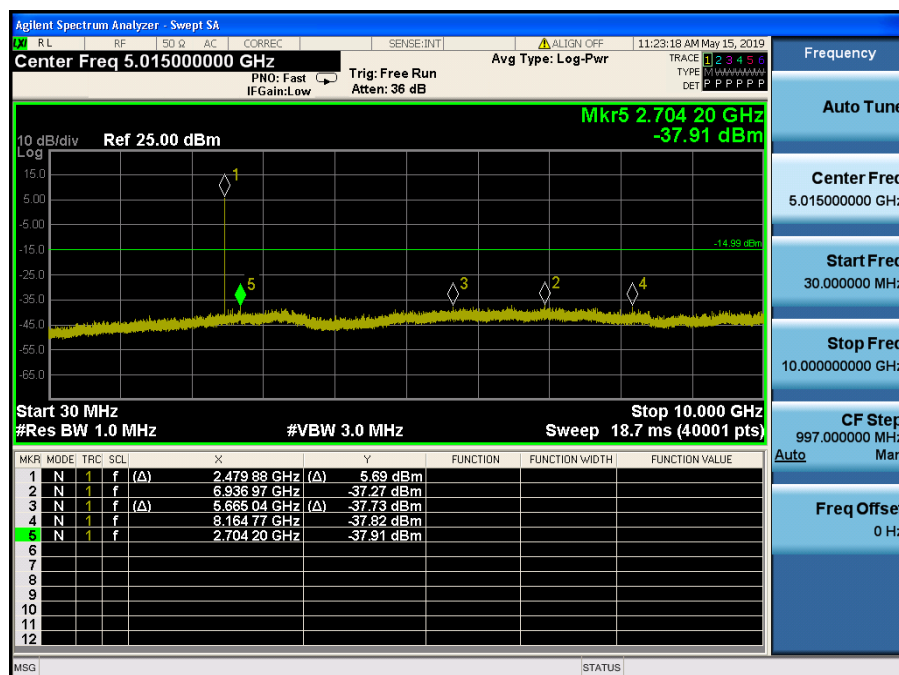
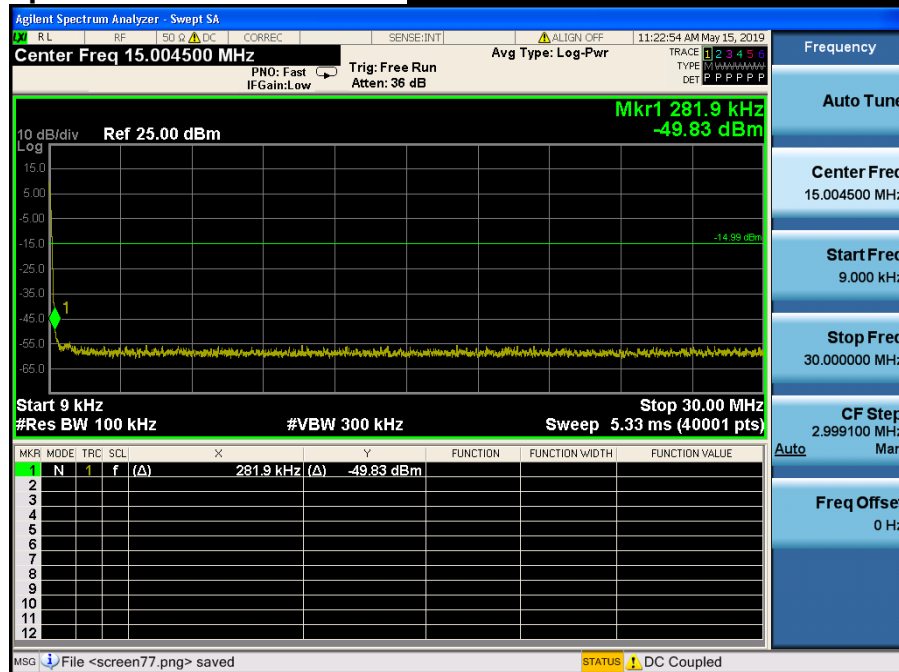
Highest Channel & Modulation : 8DPSK

High Band-edge

Hopping mode & Modulation : 8DPSK

Conducted Spurious Emissions

Highest Channel & Modulation : 8DPSK



Conducted Spurious Emissions

Highest Channel & Modulation : 8DPSK



8. Transmitter AC Power Line Conducted Emission

8.1 Test Setup

See test photographs for the actual connections between EUT and support equipment.

8.2 Limit

According to §15.207(a) for an intentional radiator that 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 the limits in the following table, as measured using a 50 uH/50 ohm line impedance stabilization network (LISN).

Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15 ~ 0.5	66 to 56 *	56 to 46 *
0.5 ~ 5	56	46
5 ~ 30	60	50

* Decreases with the logarithm of the frequency

8.3 Test Procedures

Conducted emissions from the EUT were measured according to the ANSI C63.10.

1. The test procedure is performed in a 6.5 m × 3.5 m × 3.5 m (L × W × H) shielded room. The EUT along with its peripherals were placed on a 1.0 m (W) × 1.5 m (L) and 0.8 m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.
2. The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room.
3. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.
4. The excess power cable between the EUT and the LISN was bundled. The power cables of peripherals were unbundled. All connecting cables of EUT and peripherals were moved to find the maximum emission.

8.4 Test Results

AC Line Conducted Emissions (Graph) = Modulation : GFSK Antenna 1

Results of Conducted Emission

DTNC

Date 2019-05-24

Order No.
Model No.
Serial No.
Test Condition

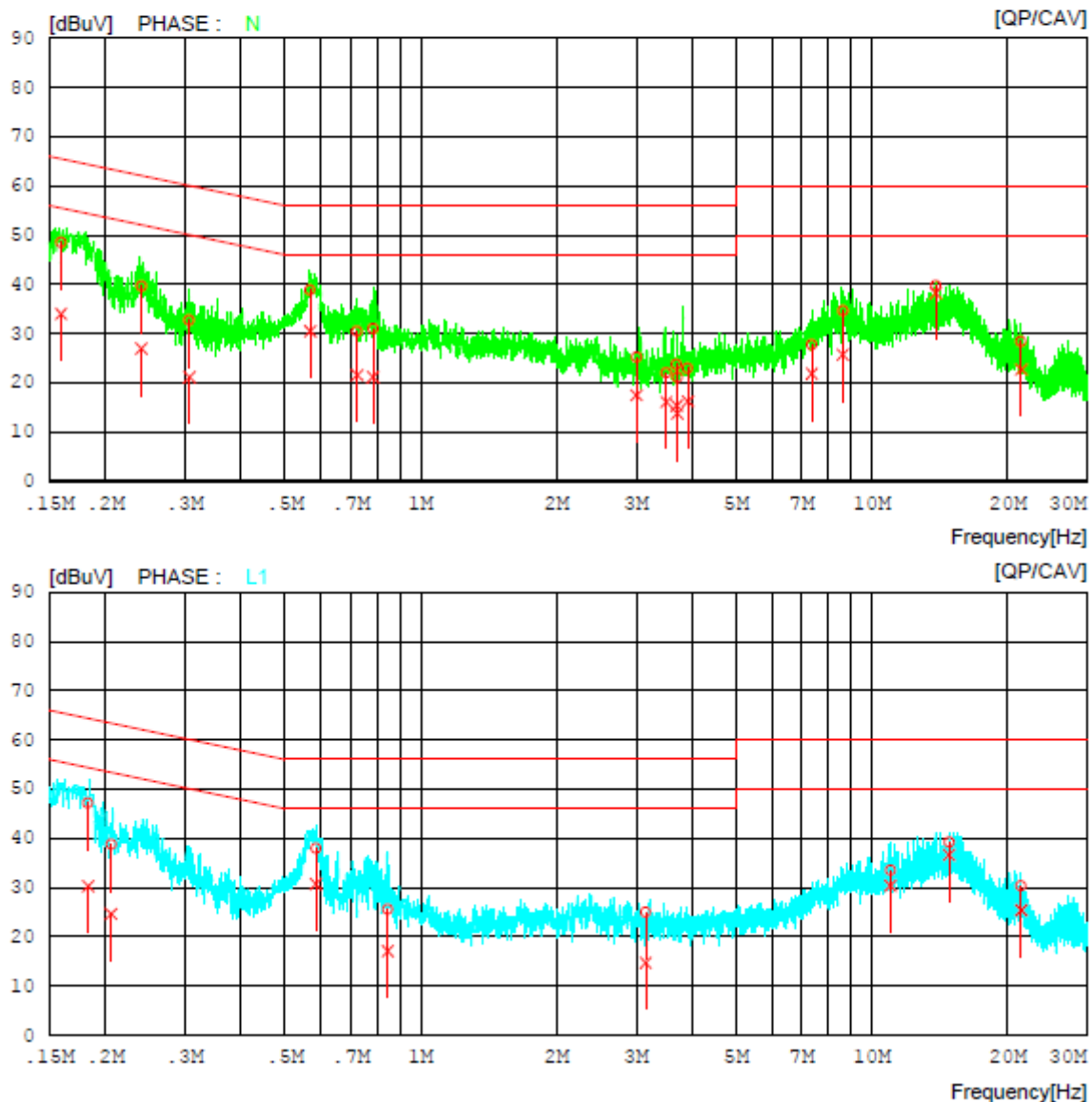
TALUS
BT

Reference No.
Power Supply
Temp/Humi.
Operator

120 V, 60 Hz
23 °C / 35 %
WooHyun Rim

Memo Antenna-1

LIMIT : FCC P15.207 QP
FCC P15.207 AV



AC Line Conducted Emissions (List) = Modulation : GFSK Antenna 1

Results of Conducted Emission

DTNC

Date 2019-05-24

Order No.
Model No. TALUS
Serial No.
Test Condition BT

Reference No.
Power Supply 120 V, 60 Hz
Temp/Humi. 23 'C / 35 %
Operator WooHyun Rim

Memo Antenna-1

LIMIT : FCC P15.207 QP
FCC P15.207 AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	CAV [dBuV]		QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	
1	0.15928	38.65	24.11	9.94	48.59	34.05	65.50	55.50	16.91	21.45	N
2	0.24009	29.76	17.07	9.94	39.70	27.01	62.09	52.09	22.39	25.08	N
3	0.30658	22.73	11.20	9.94	32.67	21.14	60.06	50.06	27.39	28.92	N
4	0.56815	28.97	20.57	9.95	38.92	30.52	56.00	46.00	17.08	15.48	N
5	0.72231	20.51	11.63	9.97	30.48	21.60	56.00	46.00	25.52	24.40	N
6	0.78325	21.02	11.26	9.97	30.99	21.23	56.00	46.00	25.01	24.77	N
7	3.00560	15.16	7.42	10.07	25.23	17.49	56.00	46.00	30.77	28.51	N
8	3.50160	12.00	6.04	10.10	22.10	16.14	56.00	46.00	33.90	29.86	N
9	3.68880	13.71	5.30	10.10	23.81	15.40	56.00	46.00	32.19	30.60	N
10	3.70440	11.01	3.66	10.10	21.11	13.76	56.00	46.00	34.89	32.24	N
11	3.90720	12.81	6.14	10.12	22.93	16.26	56.00	46.00	33.07	29.74	N
12	7.35560	17.47	11.61	10.24	27.71	21.85	60.00	50.00	32.29	28.15	N
13	8.63040	24.34	15.43	10.29	34.63	25.72	60.00	50.00	25.37	24.28	N
14	13.85400	29.33	27.80	10.46	39.79	38.26	60.00	50.00	20.21	11.74	N
15	21.42040	17.80	12.17	10.58	28.38	22.75	60.00	50.00	31.62	27.25	N
16	0.18284	37.22	20.25	9.94	47.16	30.19	64.36	54.36	17.20	24.17	L1
17	0.20585	28.74	14.68	9.94	38.68	24.62	63.37	53.37	24.69	28.75	L1
18	0.58543	27.97	20.71	9.95	37.92	30.66	56.00	46.00	18.08	15.34	L1
19	0.84418	15.58	7.14	9.96	25.54	17.10	56.00	46.00	30.46	28.90	L1
20	3.15040	14.85	4.65	10.06	24.91	14.71	56.00	46.00	31.09	31.29	L1
21	10.99700	23.17	20.01	10.36	33.53	30.37	60.00	50.00	26.47	19.63	L1
22	14.83520	28.77	26.13	10.46	39.23	36.59	60.00	50.00	20.77	13.41	L1
23	21.41560	19.77	14.83	10.56	30.33	25.39	60.00	50.00	29.67	24.61	L1

AC Line Conducted Emissions (Graph) = Modulation : GFSK Antenna 2

Results of Conducted Emission

DTNC

Date 2019-05-24

Order No.
Model No.
Serial No.
Test Condition

TALUS
BT

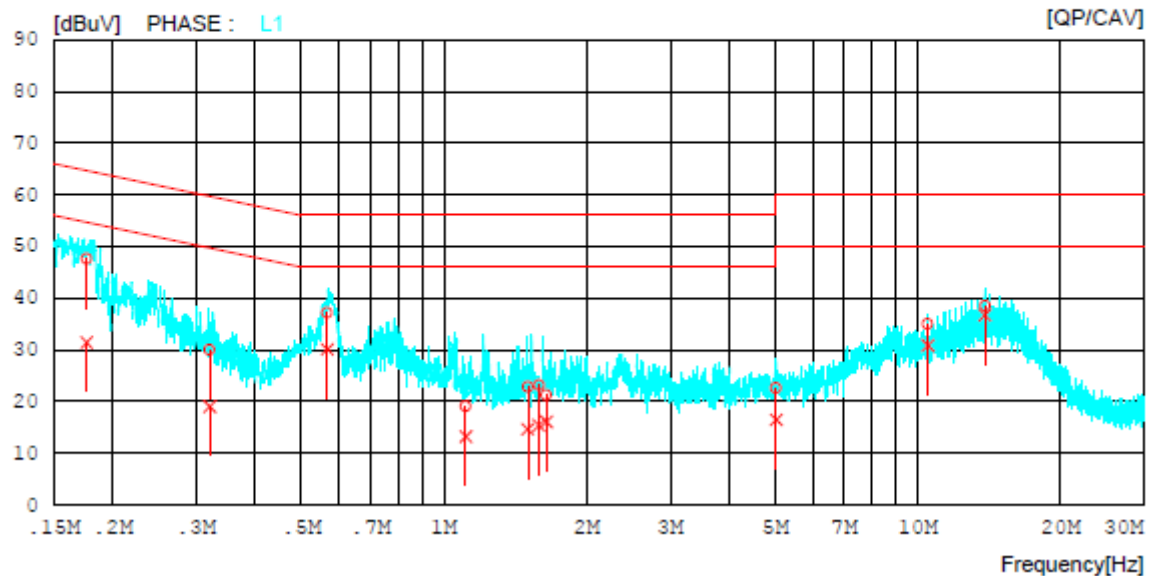
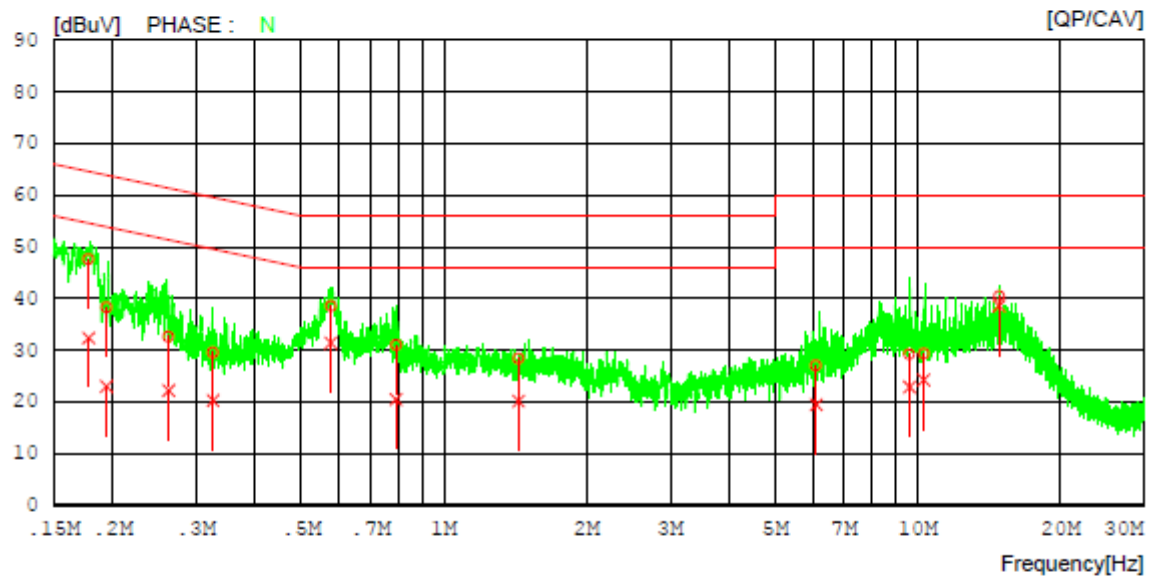
Reference No.
Power Supply
Temp/Humi.
Operator

120 V, 60 Hz
23 °C / 35 %
WooHyun Rim

Memo

Antenna-2

LIMIT : FCC P15.207 QP
FCC P15.207 AV



AC Line Conducted Emissions (List) = Modulation : GFSK Antenna 2

Results of Conducted Emission

DTNC

Date 2019-05-24

Order No.		Reference No.	
Model No.	TALUS	Power Supply	120 V, 60 Hz
Serial No.		Temp/Humi.	23 'C / 35 %
Test Condition	BT	Operator	WooHyun Rim
Memo	Antenna-2		

LIMIT : FCC P15.207 QP
FCC P15.207 AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	CAV [dBuV]		QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	
1	0.17772	37.64	22.45	9.94	47.58	32.39	64.59	54.59	17.01	22.20	N
2	0.19378	28.39	13.03	9.94	38.33	22.97	63.87	53.87	25.54	30.90	N
3	0.26192	22.71	12.24	9.94	32.65	22.18	61.37	51.37	28.72	29.19	N
4	0.32533	19.64	10.36	9.94	29.58	20.30	59.57	49.57	29.99	29.27	N
5	0.57726	28.55	21.44	9.95	38.50	31.39	56.00	46.00	17.50	14.61	N
6	0.79222	21.02	10.60	9.97	30.99	20.57	56.00	46.00	25.01	25.43	N
7	1.43620	18.40	10.13	9.99	28.39	20.12	56.00	46.00	27.61	25.88	N
8	6.09760	16.87	9.24	10.20	27.07	19.44	60.00	50.00	32.93	30.56	N
9	9.61220	18.90	12.57	10.32	29.22	22.89	60.00	50.00	30.78	27.11	N
10	10.29440	19.02	13.92	10.35	29.37	24.27	60.00	50.00	30.63	25.73	N
11	14.83720	29.93	28.09	10.49	40.42	38.58	60.00	50.00	19.58	11.42	N
12	0.17604	37.65	21.41	9.94	47.59	31.35	64.67	54.67	17.08	23.32	L1
13	0.31986	20.06	9.02	9.94	30.00	18.96	59.71	49.71	29.71	30.75	L1
14	0.56650	27.22	20.14	9.95	37.17	30.09	56.00	46.00	18.83	15.91	L1
15	1.11220	9.11	3.20	9.97	19.08	13.17	56.00	46.00	36.92	32.83	L1
16	1.50340	12.81	4.60	10.01	22.82	14.61	56.00	46.00	33.18	31.39	L1
17	1.58640	13.12	5.38	10.01	23.13	15.39	56.00	46.00	32.87	30.61	L1
18	1.64400	11.18	6.03	10.01	21.19	16.04	56.00	46.00	34.81	29.96	L1
19	5.02020	12.42	6.27	10.16	22.58	16.43	60.00	50.00	37.42	33.57	L1
20	10.48640	24.62	20.45	10.35	34.97	30.80	60.00	50.00	25.03	19.20	L1
21	13.85760	28.04	26.34	10.43	38.47	36.77	60.00	50.00	21.53	13.23	L1

AC Line Conducted Emissions (Graph) = Modulation : GFSK Antenna 3

Results of Conducted Emission

DTNC

Date 2019-05-24

Order No.

TALUS

Reference No.

Power Supply

120 V, 60 Hz

Model No.

Serial No.

Test Condition

BT

Temp/Humi.

Operator

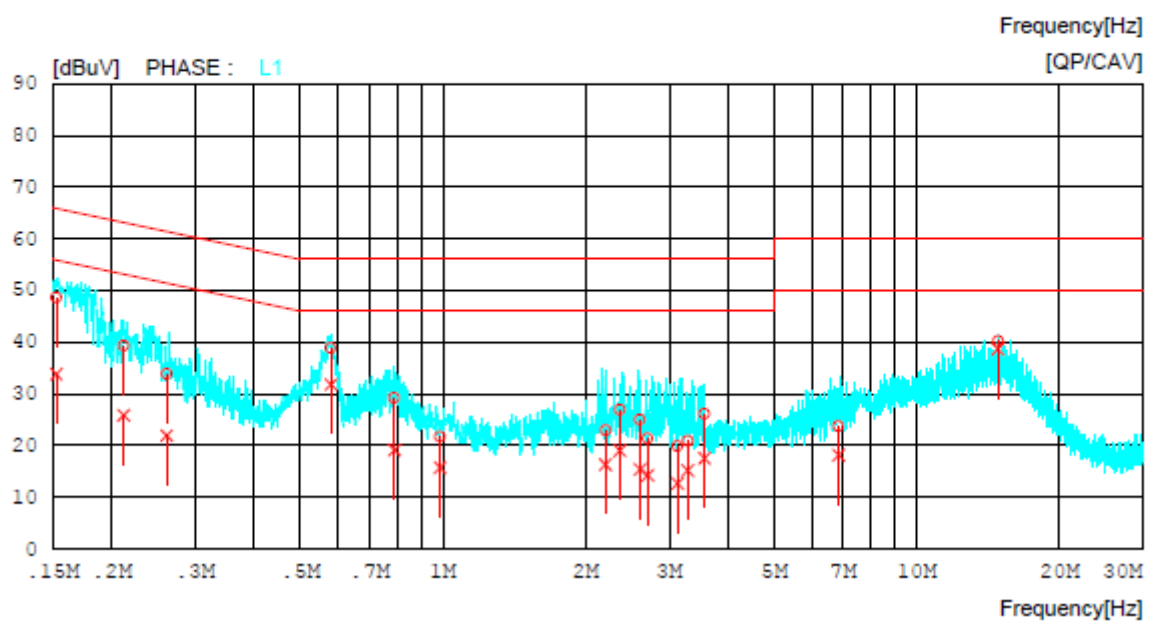
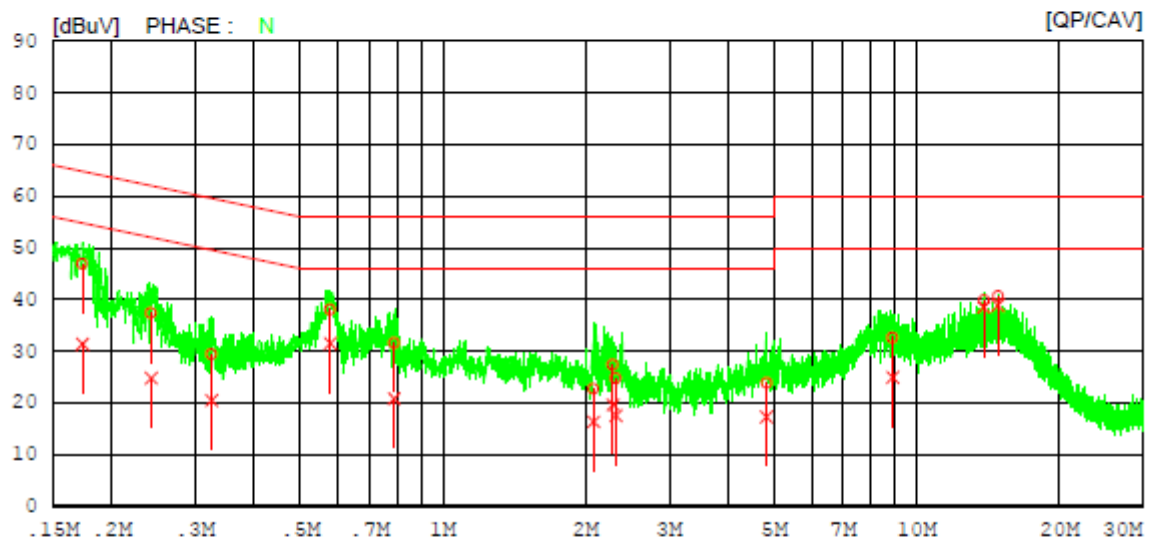
23 °C / 35 %

WooHyun Rim

Memo

Antenna-3

LIMIT : FCC P15.207 QP
FCC P15.207 AV



AC Line Conducted Emissions (List) = Modulation : GFSK Antenna 3

Results of Conducted Emission

DTNC

Date 2019-05-24

Order No.
Model No. TALUS
Serial No.
Test Condition BT

Reference No.
Power Supply 120 V, 60 Hz
Temp/Humi. 23 'C / 35 %
Operator WooHyun Rim

Memo Antenna-3

LIMIT : FCC P15.207 QP
FCC P15.207 AV

NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	CAV [dBuV]		QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	
1	0.17323	36.99	21.52	9.94	46.93	31.46	64.80	54.80	17.87	23.34	N
2	0.24174	27.50	14.87	9.94	37.44	24.81	62.04	52.04	24.60	27.23	N
3	0.32470	19.54	10.62	9.94	29.48	20.56	59.59	49.59	30.11	29.03	N
4	0.57795	28.14	21.63	9.95	38.09	31.58	56.00	46.00	17.91	14.42	N
5	0.78862	21.63	10.90	9.97	31.60	20.87	56.00	46.00	24.40	25.13	N
6	2.07720	12.67	6.32	10.03	22.70	16.35	56.00	46.00	33.30	29.65	N
7	2.28360	17.36	9.61	10.05	27.41	19.66	56.00	46.00	28.59	26.34	N
8	2.31600	14.68	7.50	10.05	24.73	17.55	56.00	46.00	31.27	28.45	N
9	4.81660	13.74	7.14	10.16	23.90	17.30	56.00	46.00	32.10	28.70	N
10	8.89020	22.29	14.66	10.30	32.59	24.96	60.00	50.00	27.41	25.04	N
11	13.85500	29.47	28.08	10.46	39.93	38.54	60.00	50.00	20.07	11.46	N
12	14.83800	30.21	28.40	10.49	40.70	38.89	60.00	50.00	19.30	11.11	N
13	0.15261	38.72	23.78	9.94	48.66	33.72	65.86	55.86	17.20	22.14	L1
14	0.21181	29.37	15.88	9.94	39.31	25.82	63.13	53.13	23.82	27.31	L1
15	0.26103	23.83	11.93	9.94	33.77	21.87	61.40	51.40	27.63	29.53	L1
16	0.57952	28.83	21.84	9.95	38.78	31.79	56.00	46.00	17.22	14.21	L1
17	0.78970	19.14	9.17	9.96	29.10	19.13	56.00	46.00	26.90	26.87	L1
18	0.98500	11.67	5.69	9.97	21.64	15.66	56.00	46.00	34.36	30.34	L1
19	2.20240	12.92	6.21	10.03	22.95	16.24	56.00	46.00	33.05	29.76	L1
20	2.36160	16.88	8.92	10.04	26.92	18.96	56.00	46.00	29.08	27.04	L1
21	2.60440	14.98	5.33	10.04	25.02	15.37	56.00	46.00	30.98	30.63	L1
22	2.70160	11.30	4.15	10.04	21.34	14.19	56.00	46.00	34.66	31.81	L1
23	3.12600	9.75	2.60	10.06	19.81	12.66	56.00	46.00	36.19	33.34	L1
24	3.28600	10.74	5.01	10.08	20.82	15.09	56.00	46.00	35.18	30.91	L1
25	3.56240	15.97	7.44	10.09	26.06	17.53	56.00	46.00	29.94	28.47	L1
26	6.83440	13.47	7.82	10.22	23.69	18.04	60.00	50.00	36.31	31.96	L1
27	14.83800	29.73	28.19	10.46	40.19	38.65	60.00	50.00	19.81	11.35	L1

9. Antenna Requirement

Describe how the EUT complies with the requirement that either its antenna is permanently attached, or that it employs a unique antenna connector, for every antenna proposed for use with the EUT.

Conclusion: **Comply**

The external antenna empplys a unique antenna connector.

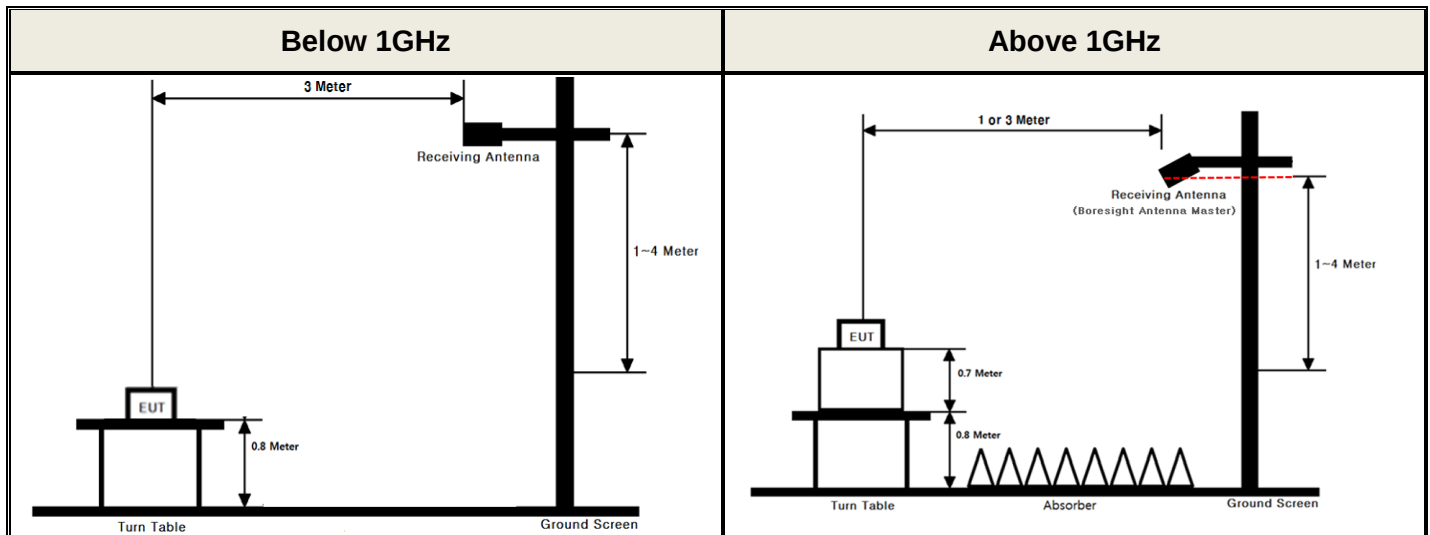
- Minimum Standard :

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions.
--

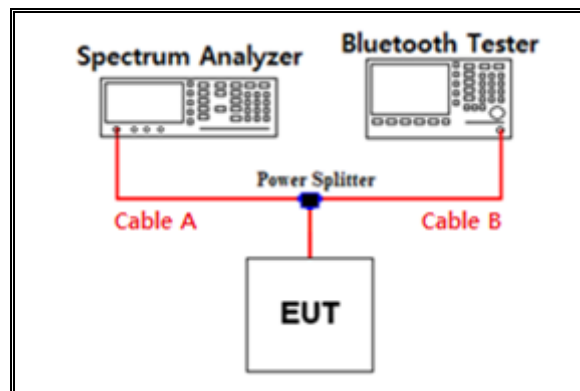
APPENDIX I

Test set up diagrams

▪ Radiated Measurement



▪ Conducted Measurement



Path loss information

Frequency (GHz)	Path Loss (dB)	Frequency (GHz)	Path Loss (dB)
0.03	6.63	15	10.84
1	6.89	20	11.81
2.402 & 2.441 & 2.480	7.65	25	12.10
5	8.18	-	-
10	9.14	-	-

Note 1 : The path loss from EUT to Spectrum analyzer were measured and used for test.

Path loss (S/A's Correction factor) = Cable A + Power splitter

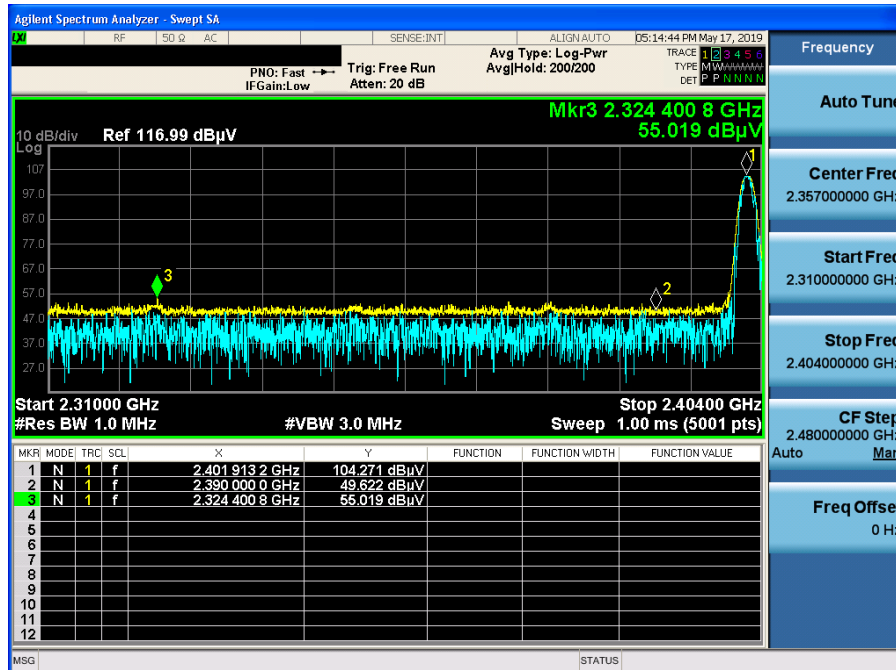
APPENDIX II

Unwanted Emissions (Radiated) Test Plot

Antenna 1

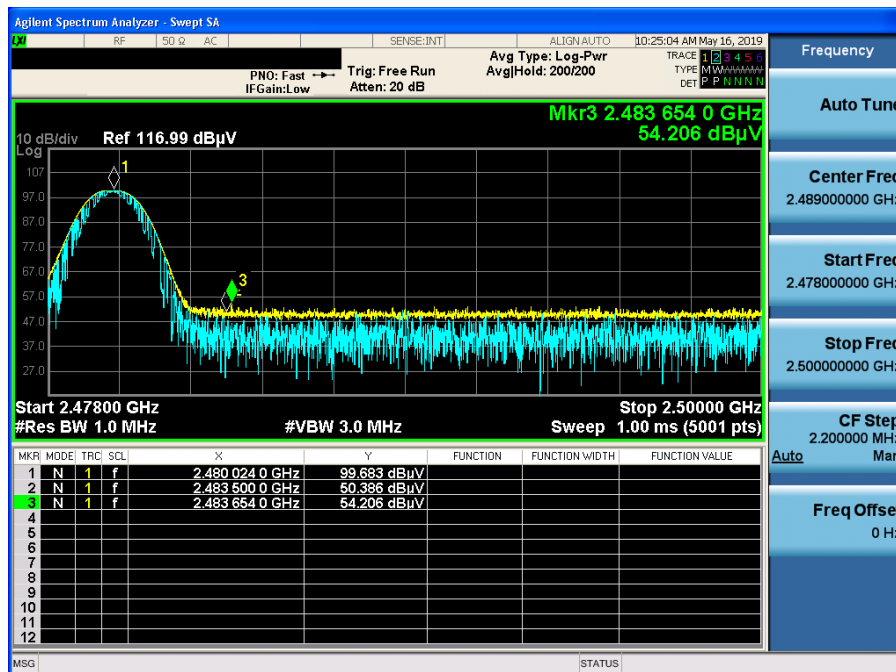
GFSK & Lowest & Z & Ver

Detector Mode : PK



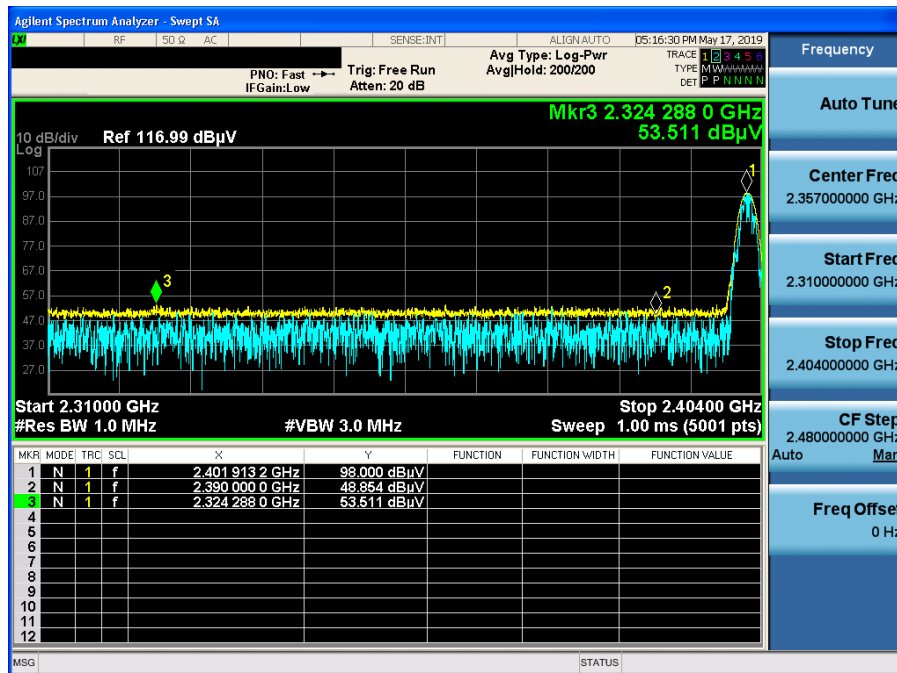
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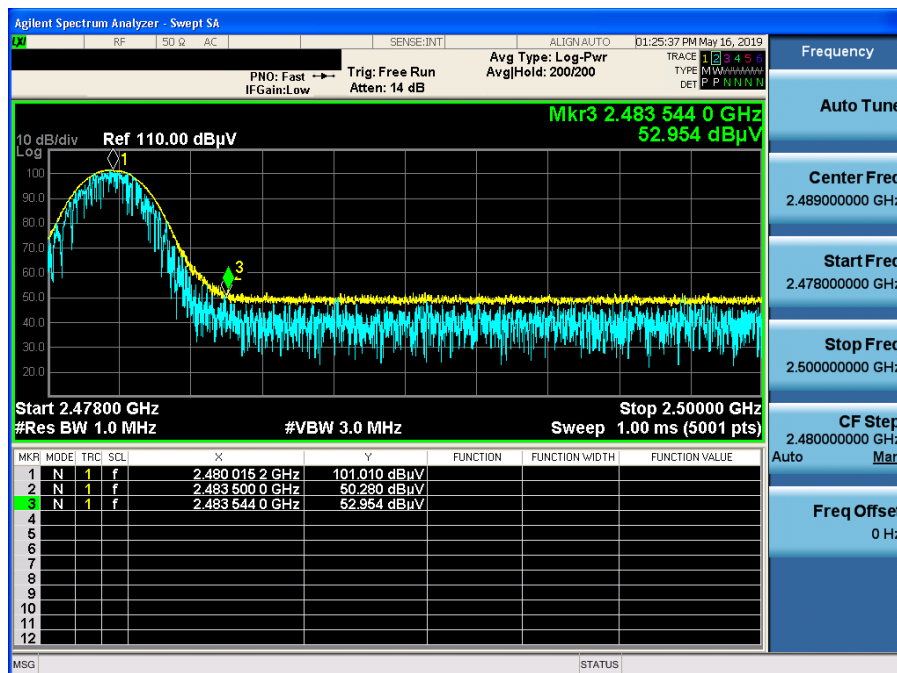


$\pi/4$ DQPSK & Lowest & Z & Ver

Detector Mode : PK

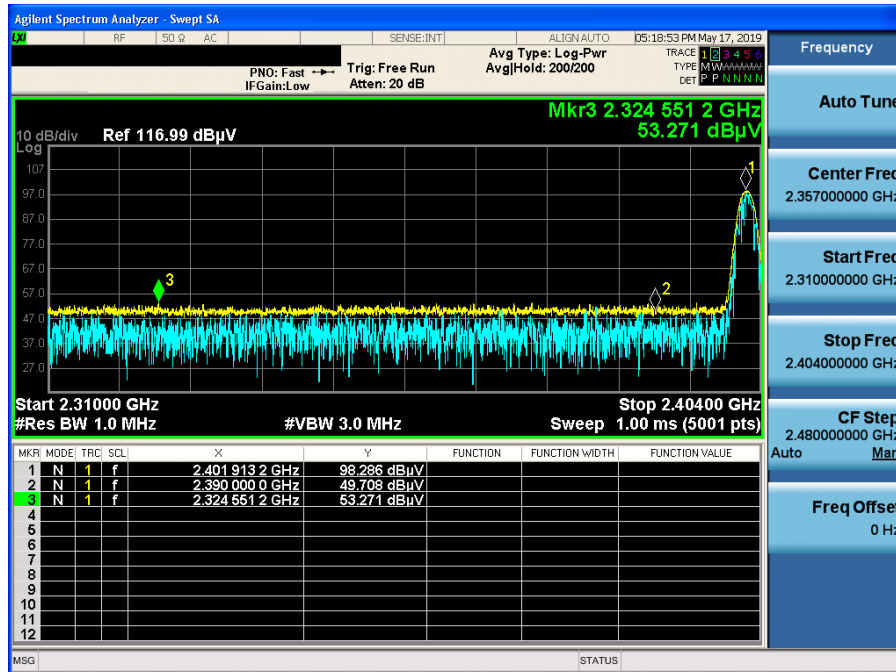
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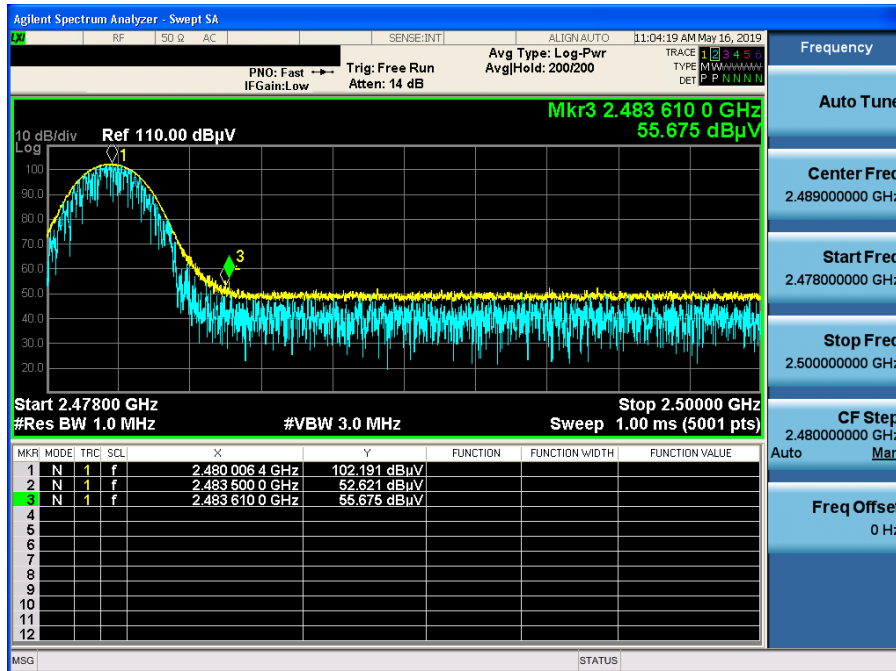
8DPSK & Lowest & Z & Ver

Detector Mode : PK



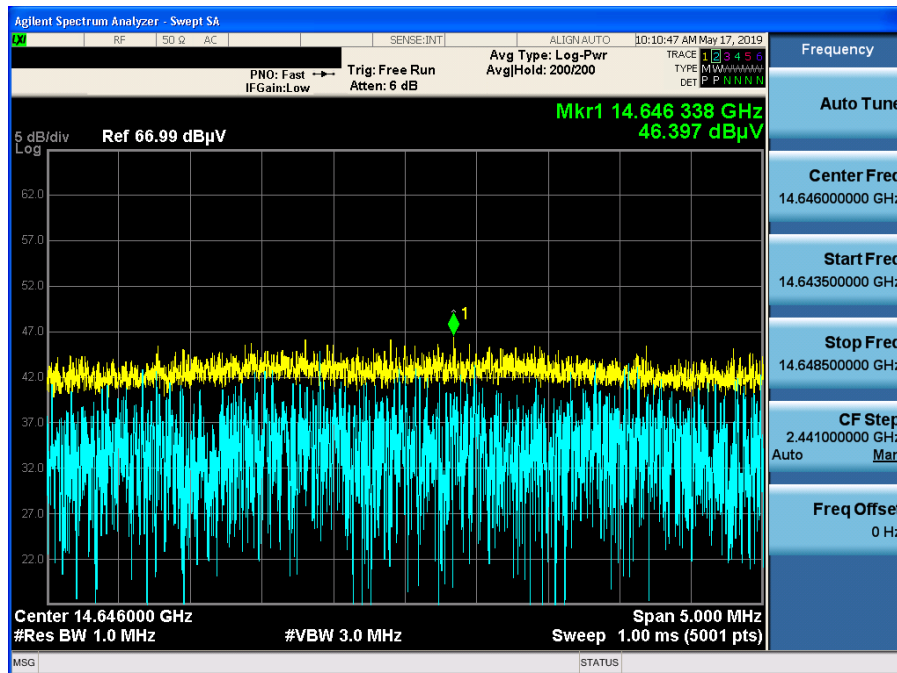
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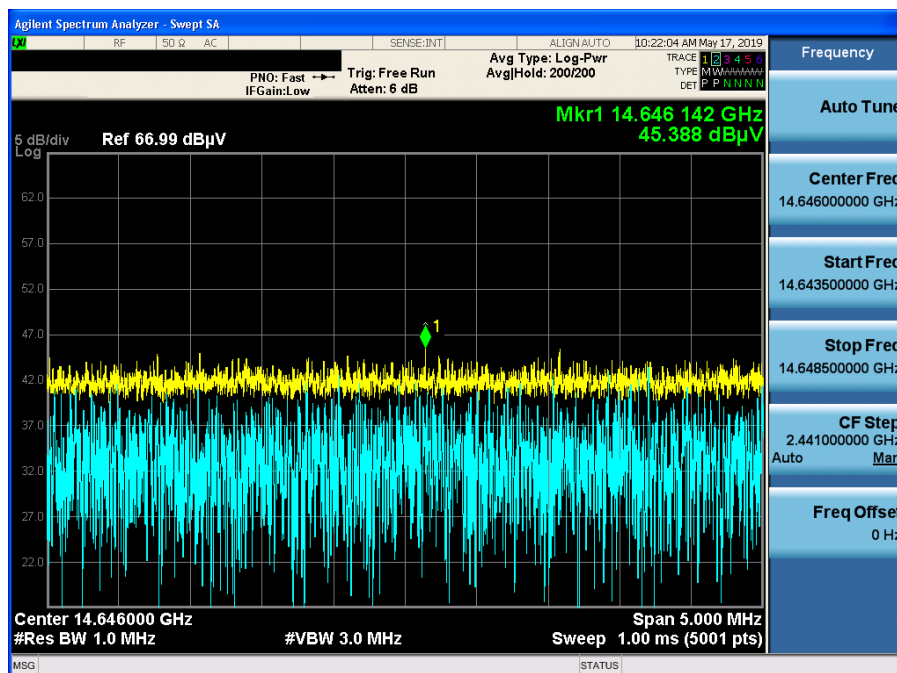


GFSK & Middle & X & Hor

Detector Mode : PK

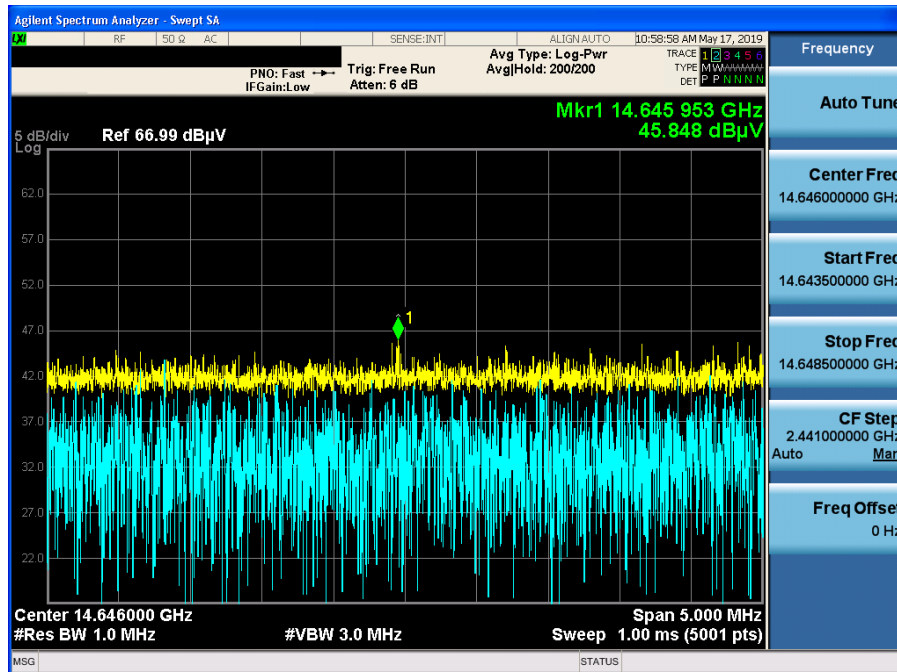
 π /4DQPSK & Middle & X & Hor

Detector Mode : PK



8DPSK & Middle & X & Hor

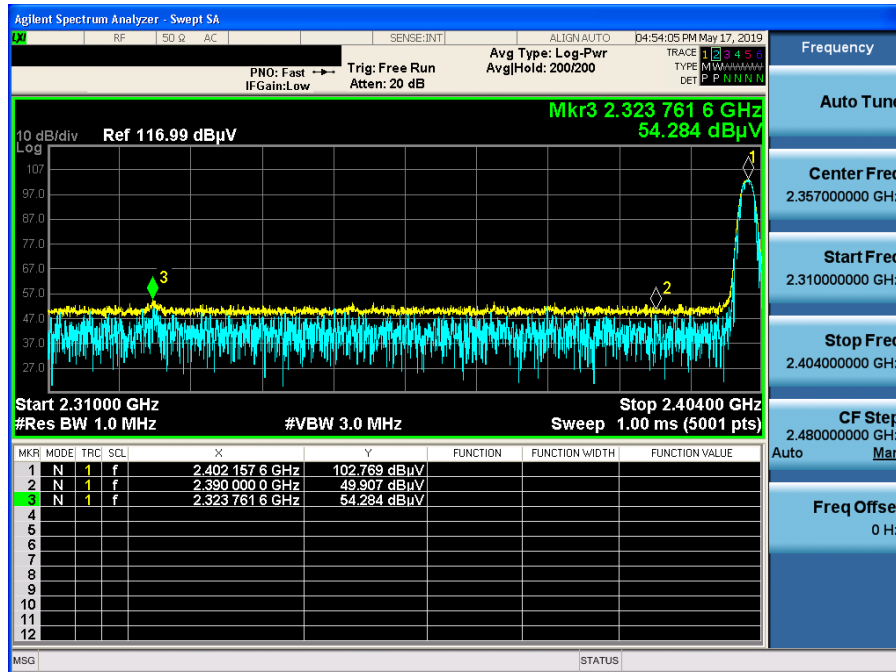
Detector Mode : PK



Antenna 2

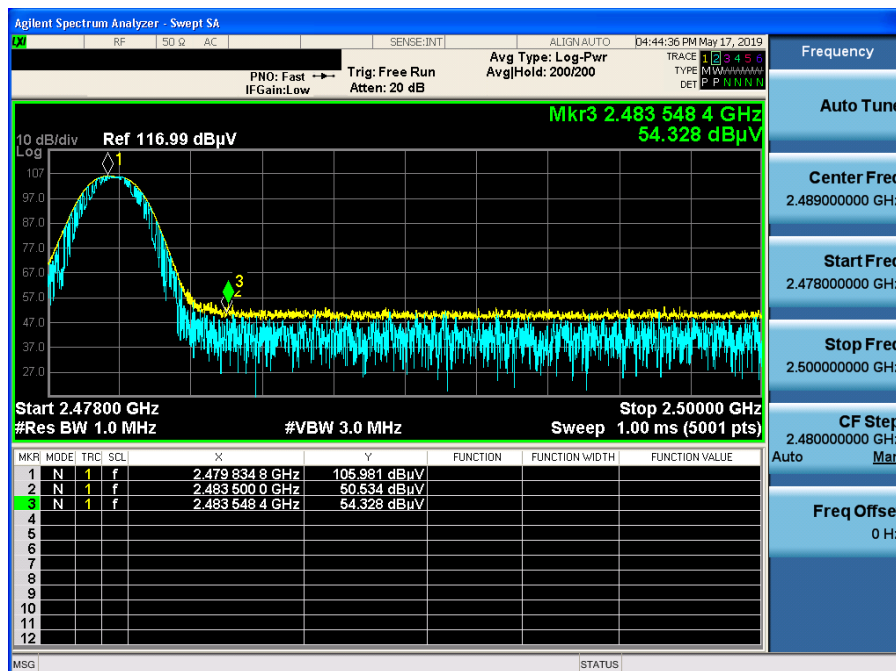
GFSK & Lowest & Z & Ver

Detector Mode : PK



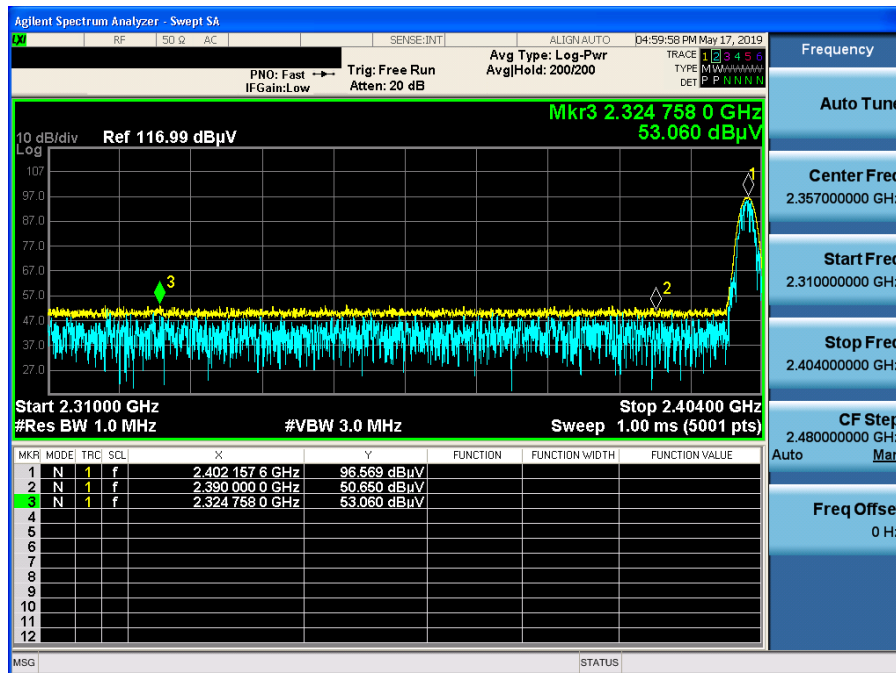
GFSK & Highest & Z & Ver

Detector Mode : PK

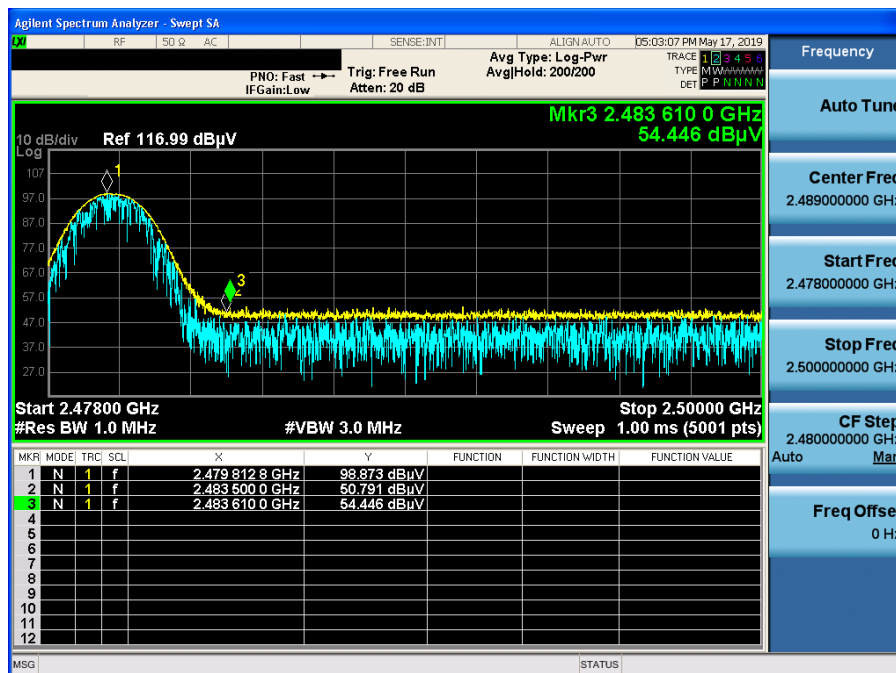


$\pi/4$ DQPSK & Lowest & Z & Ver

Detector Mode : PK

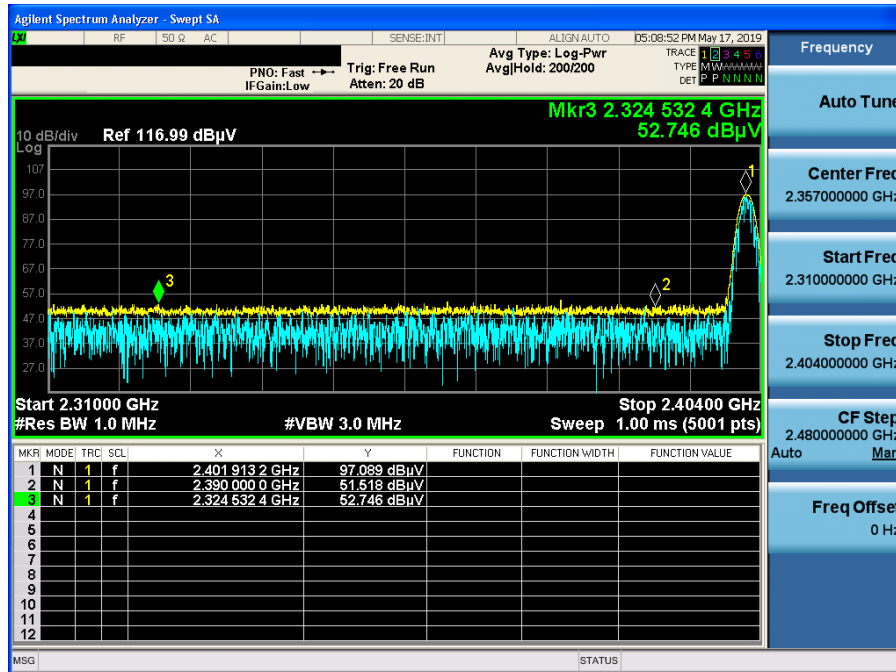
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Detector Mode : PK



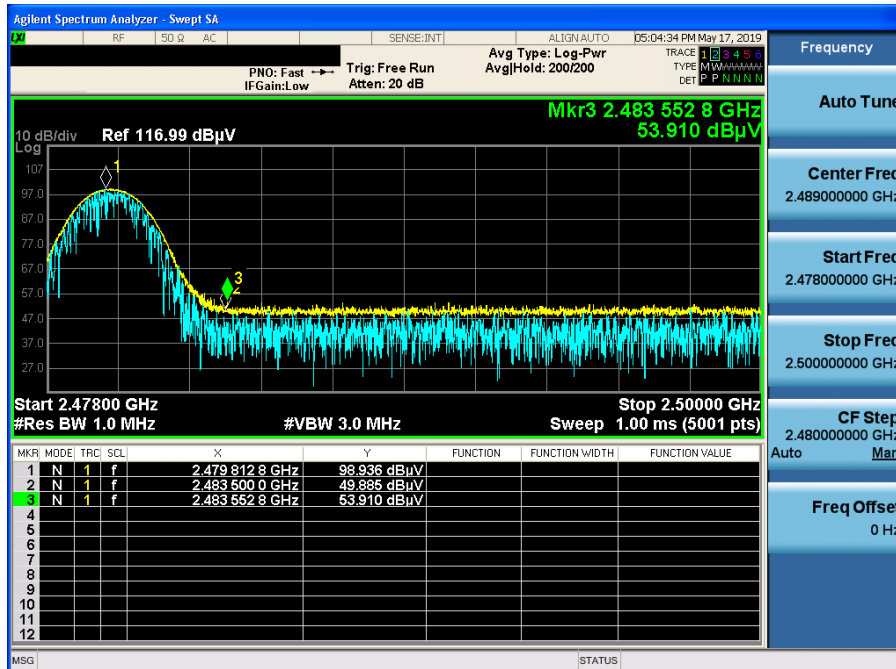
8DPSK & Lowest & Z & Ver

Detector Mode : PK



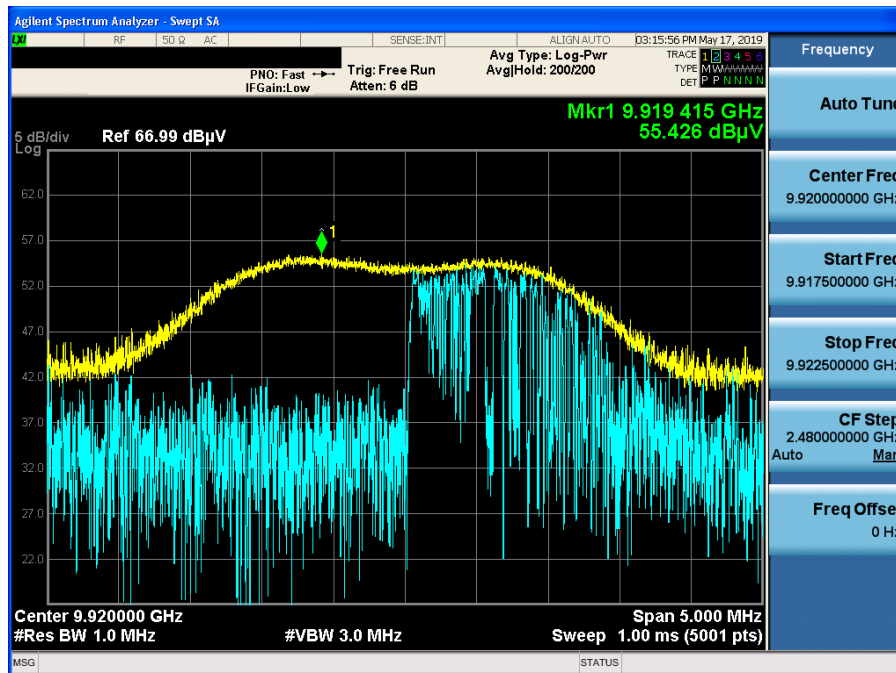
8DPSK & Highest & Z & Ver

Detector Mode : PK

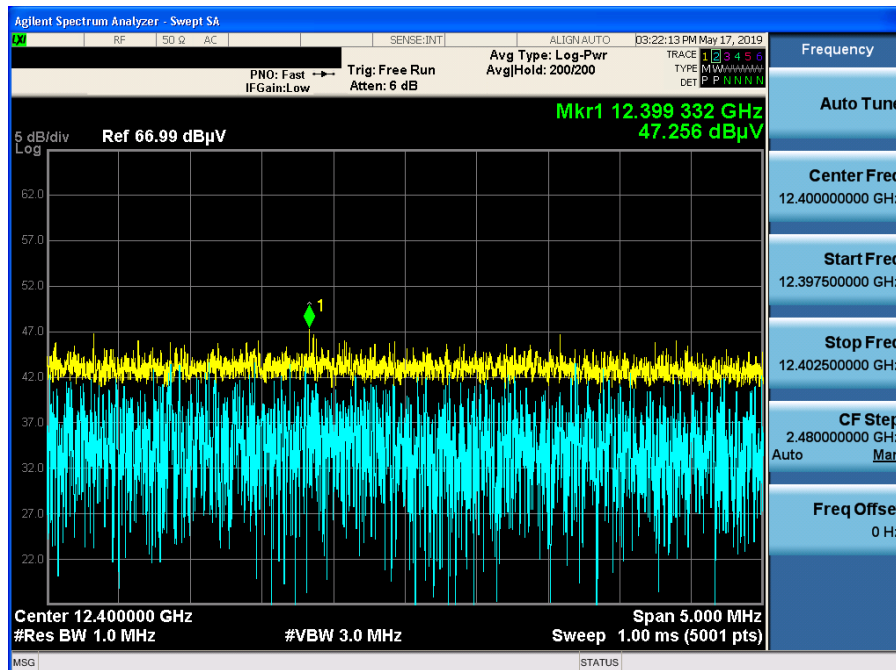


GFSK & Highest & Y & Hor

Detector Mode : PK

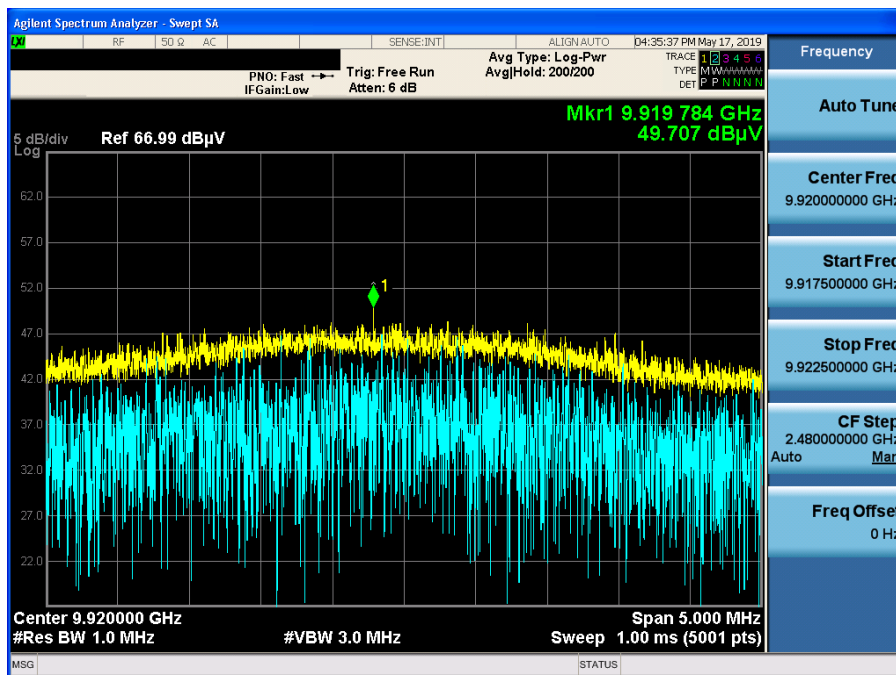
 π /4DQPSK & Highest & Y & Hor

Detector Mode : PK



8DPSK & Highest & X & Ver

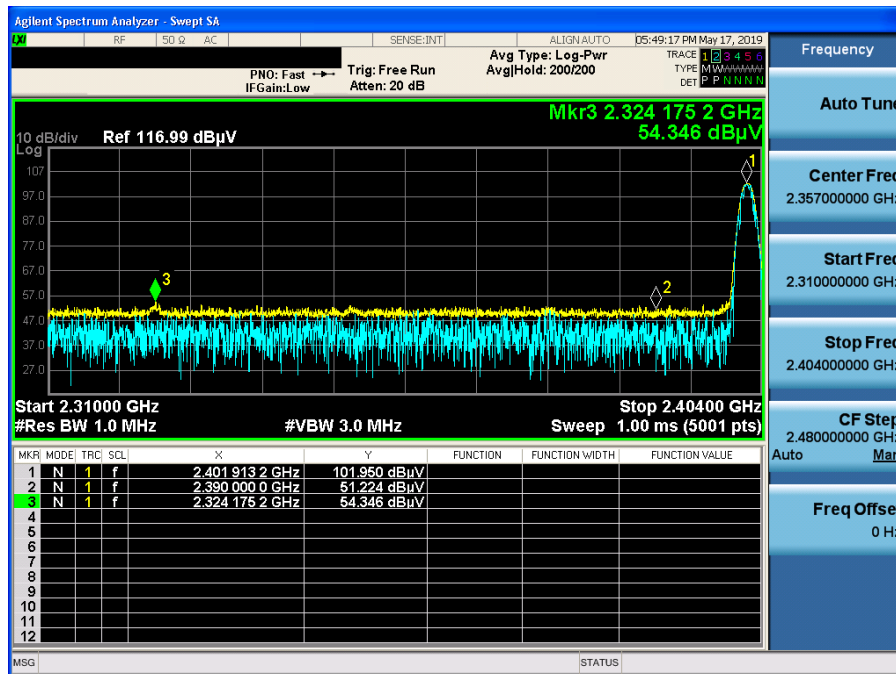
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Antenna 3

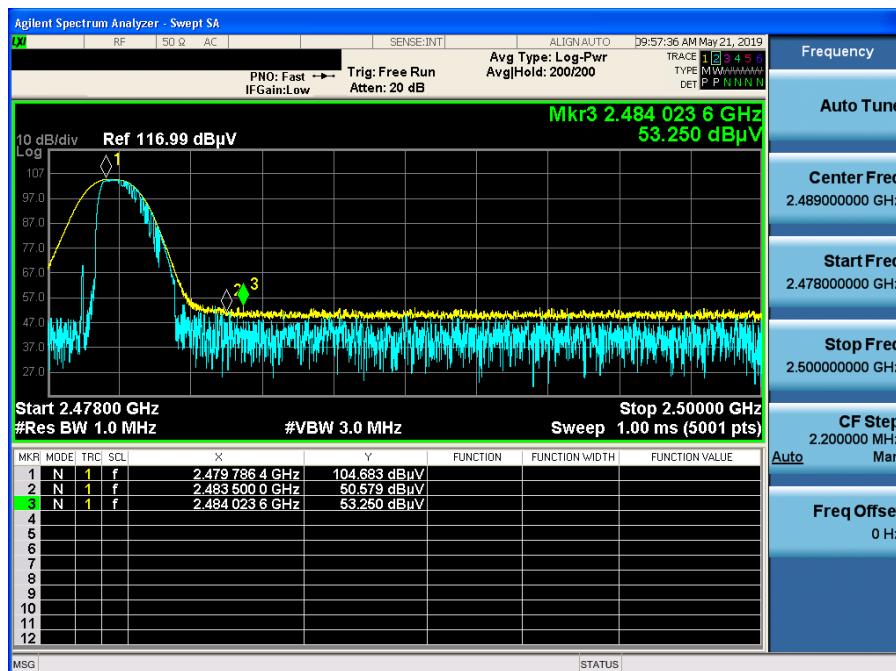
GFSK & Lowest & Z & Ver

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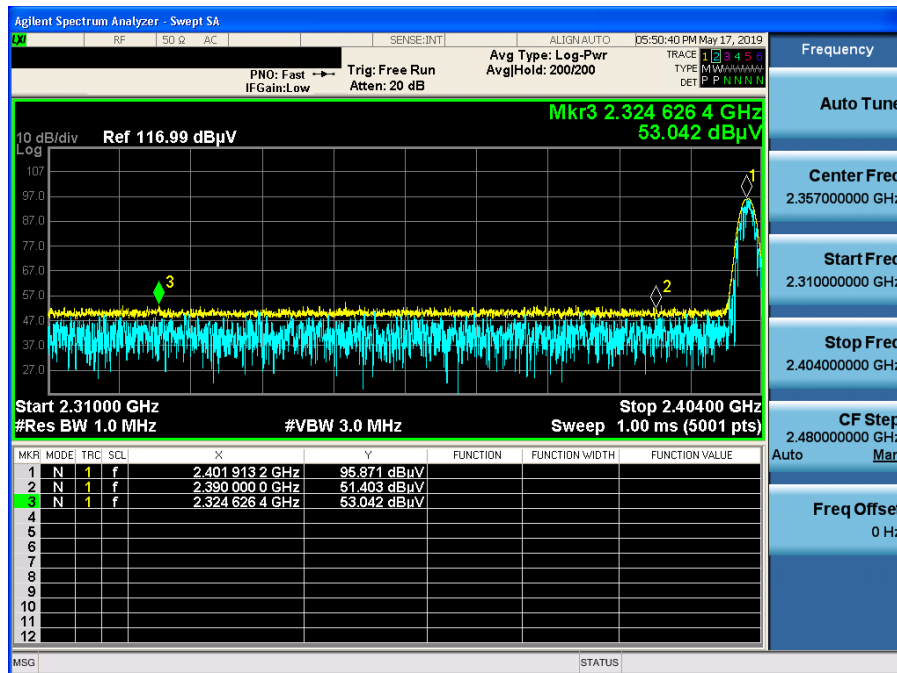
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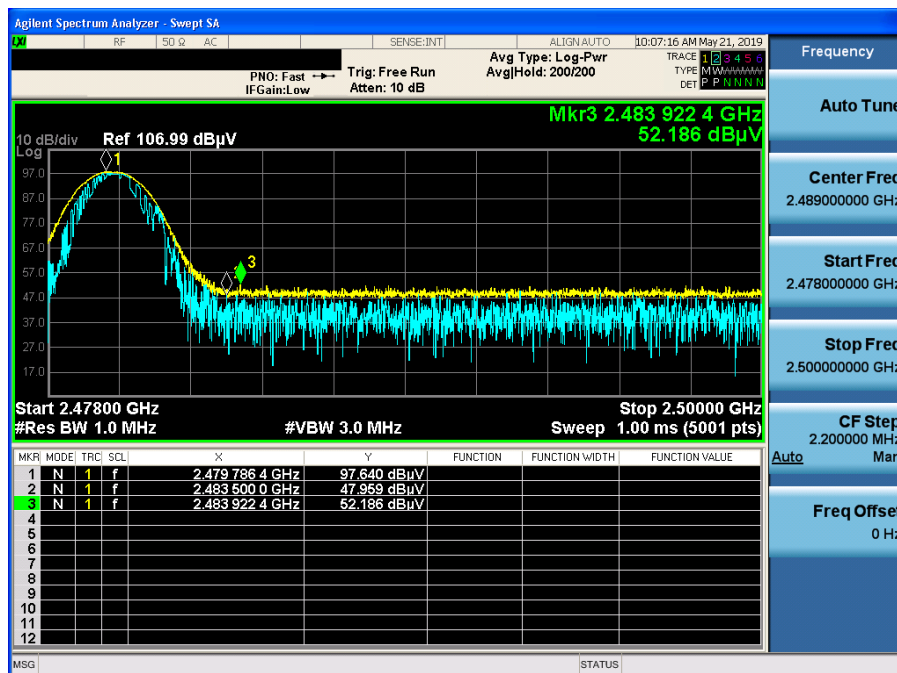


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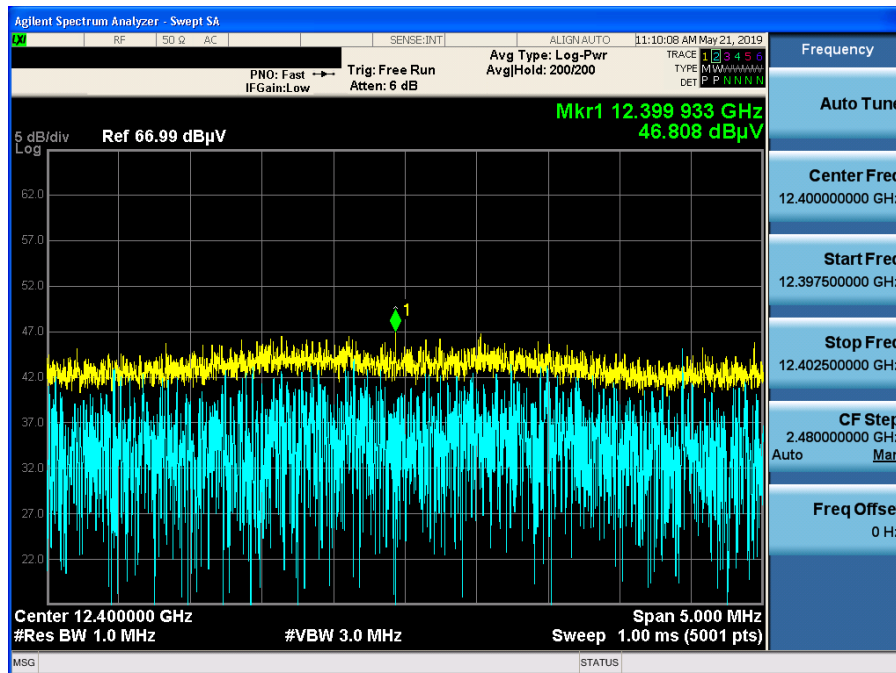
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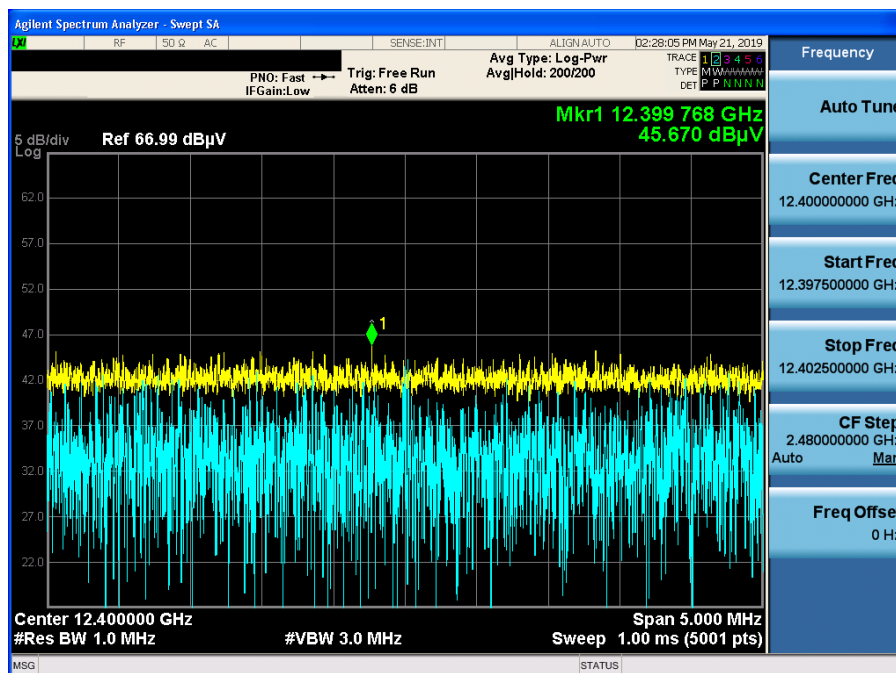


GFSK & Highest & Y & Hor

Detector Mode : PK

 π /4DQPSK & Highest & Y & Hor

Detector Mode : PK



8DPSK & Middle & Y & Hor

Detector Mode : PK

