

Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz – 30 MHz.

Test Results

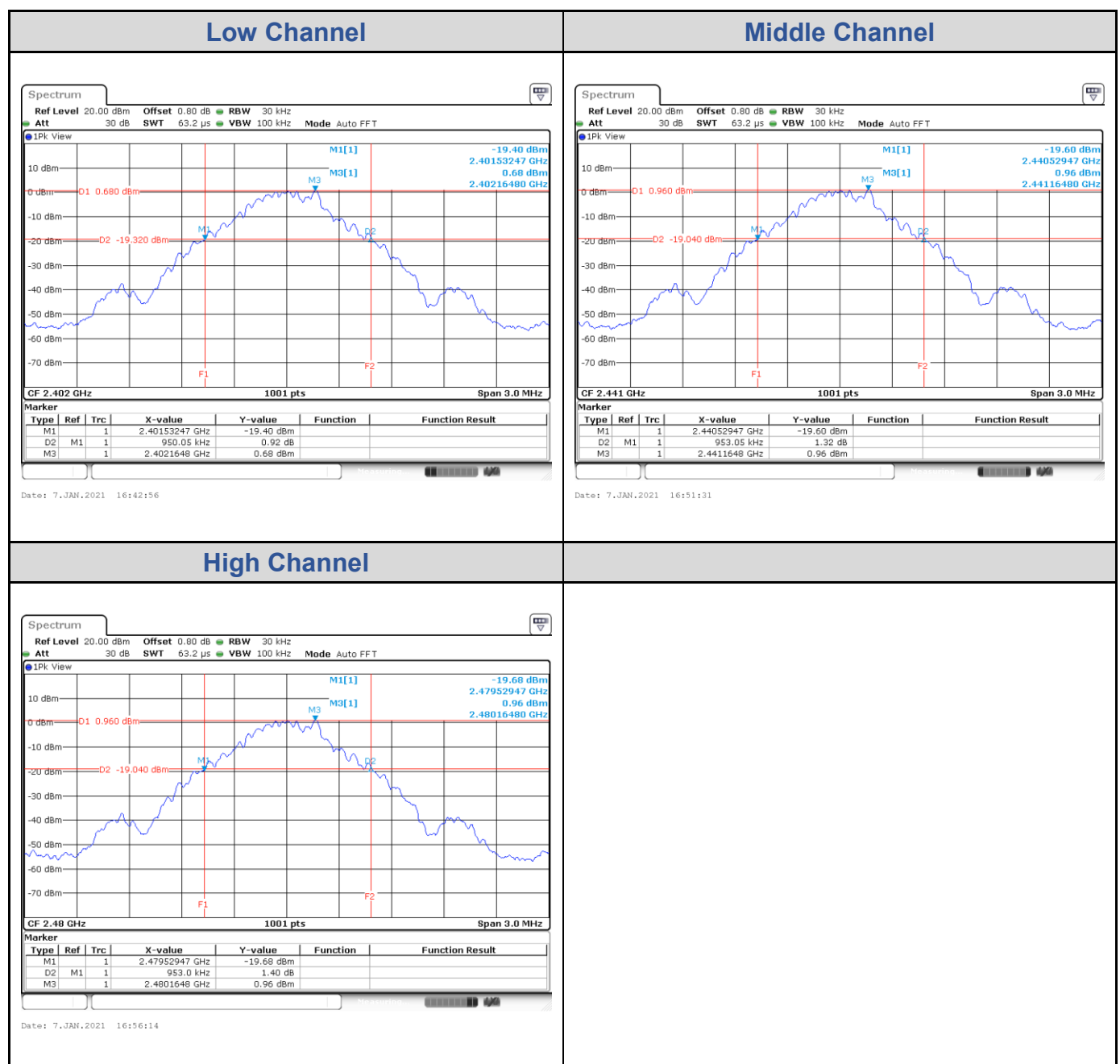
Please refer to Appendix B.

Appendix A: Test Results of Conducted Test

Test Result of 20 dB Bandwidth

GFSK

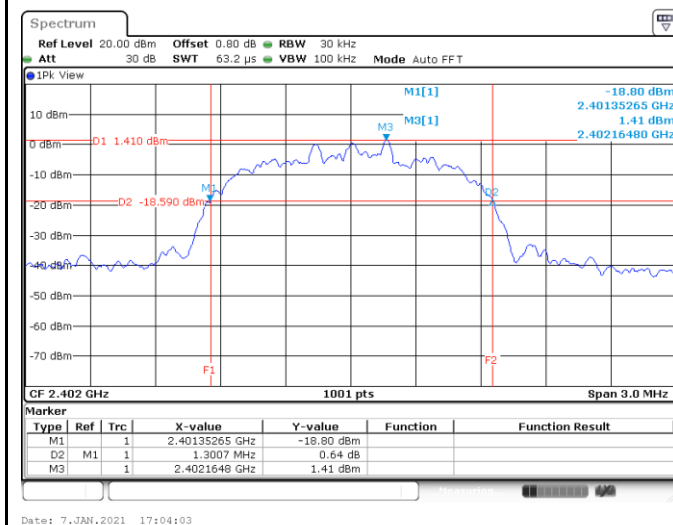
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Result
Low Channel	2402	950.05	Pass
Middle Channel	2441	953.05	Pass
High Channel	2480	953.00	Pass



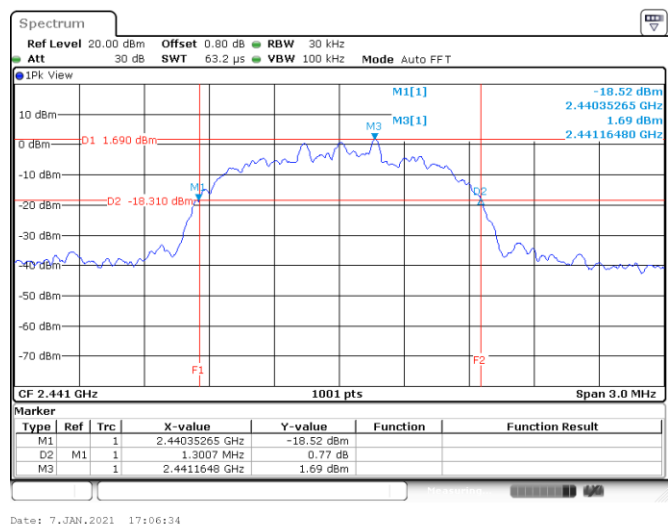
8DPSK

Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Result
Low Channel	2402	1300.70	Pass
Middle Channel	2441	1300.70	Pass
High Channel	2480	1297.70	Pass

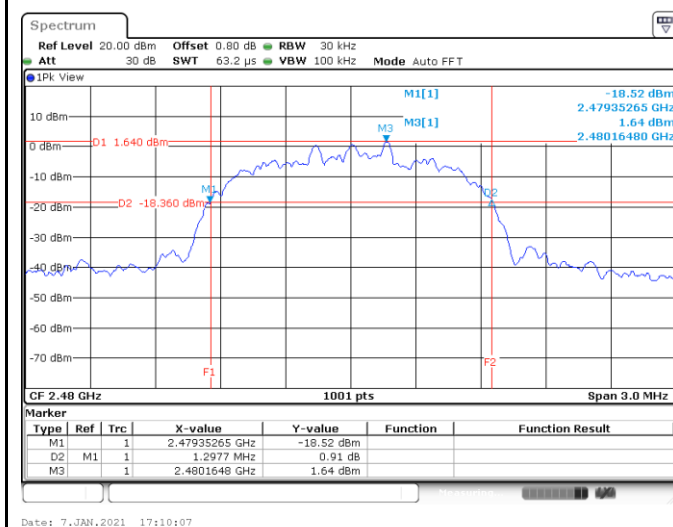
Low Channel



Middle Channel



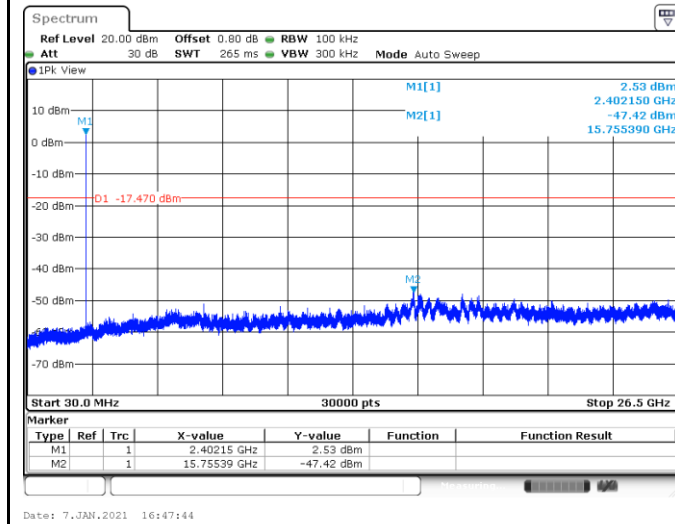
High Channel



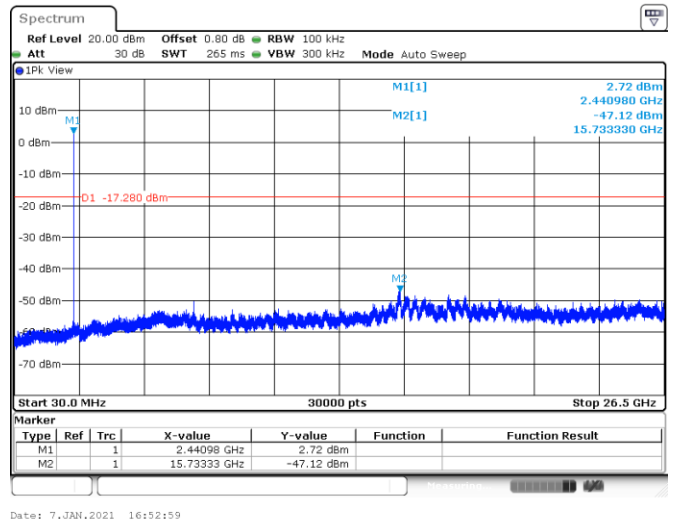
Test Result of Conducted Spurious Emissions, Tx Mode

GFSK

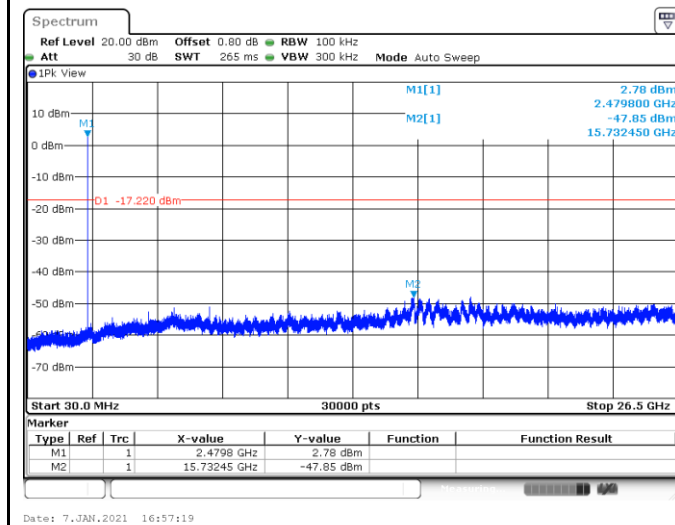
Low Channel



Middle Channel

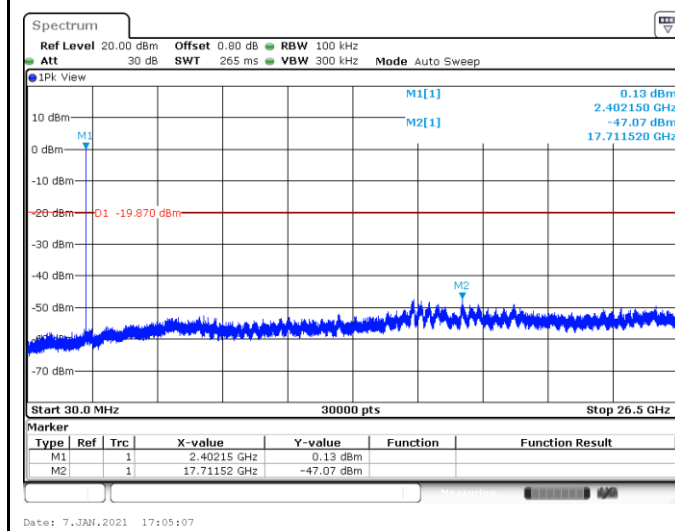


High Channel

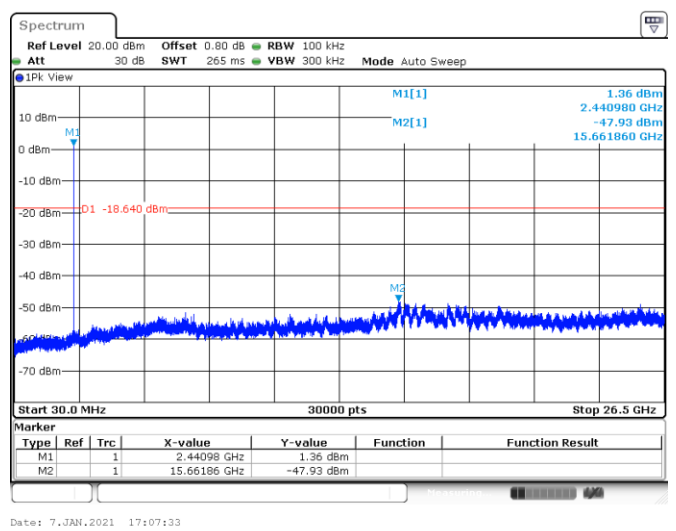


8DPSK

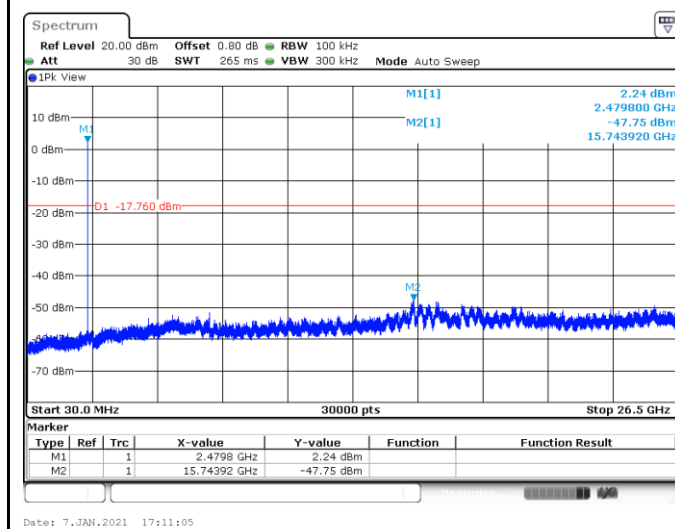
Low Channel



Middle Channel

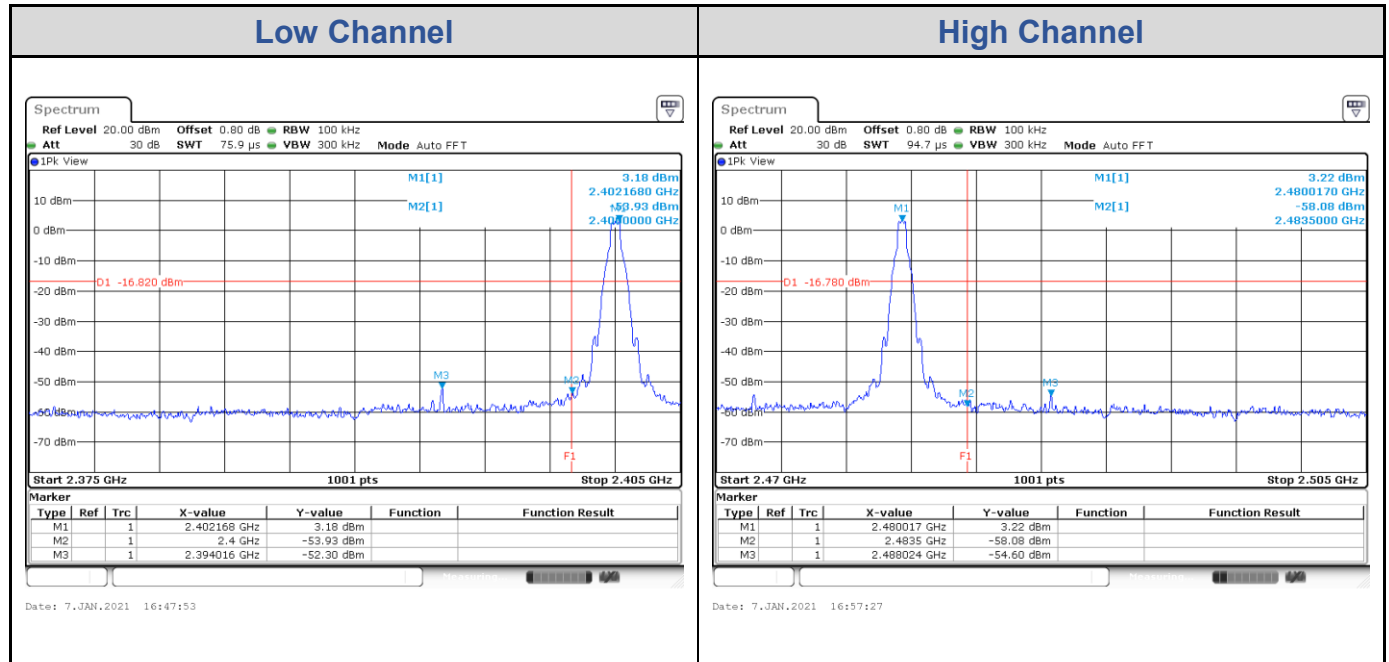


High Channel

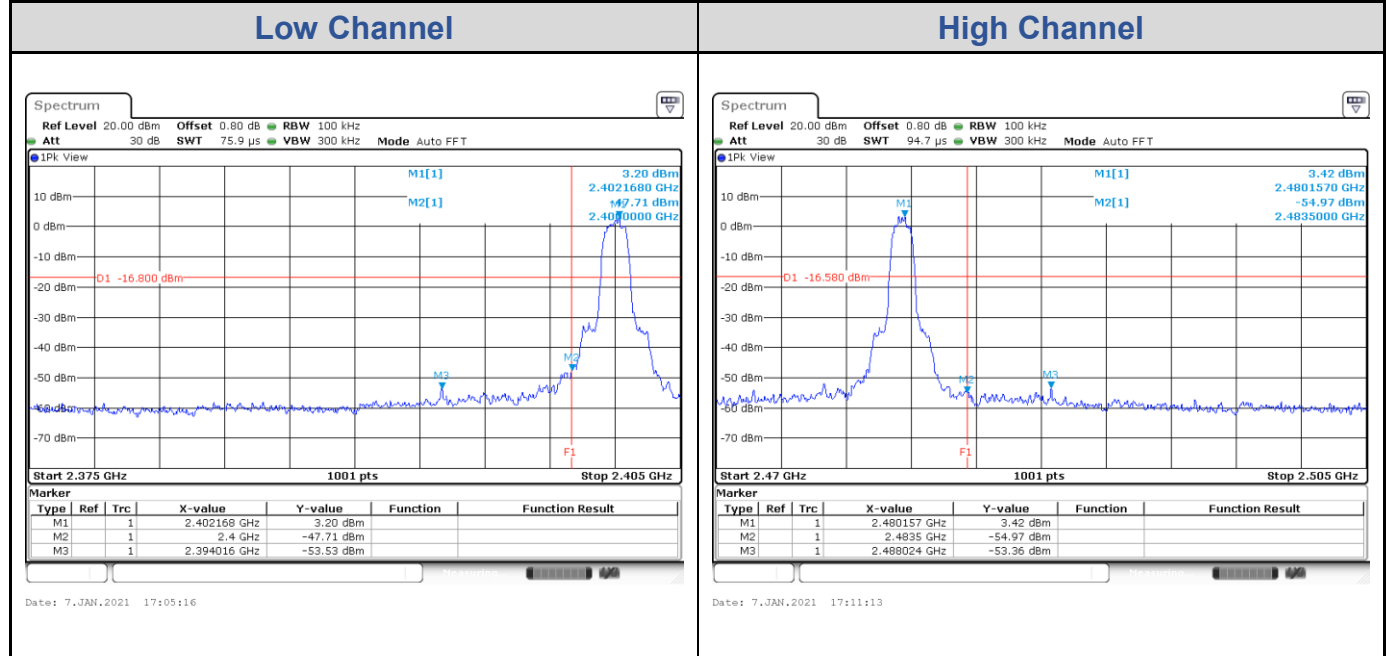


Test Result of Conducted Band Edge, Tx Mode

GFSK

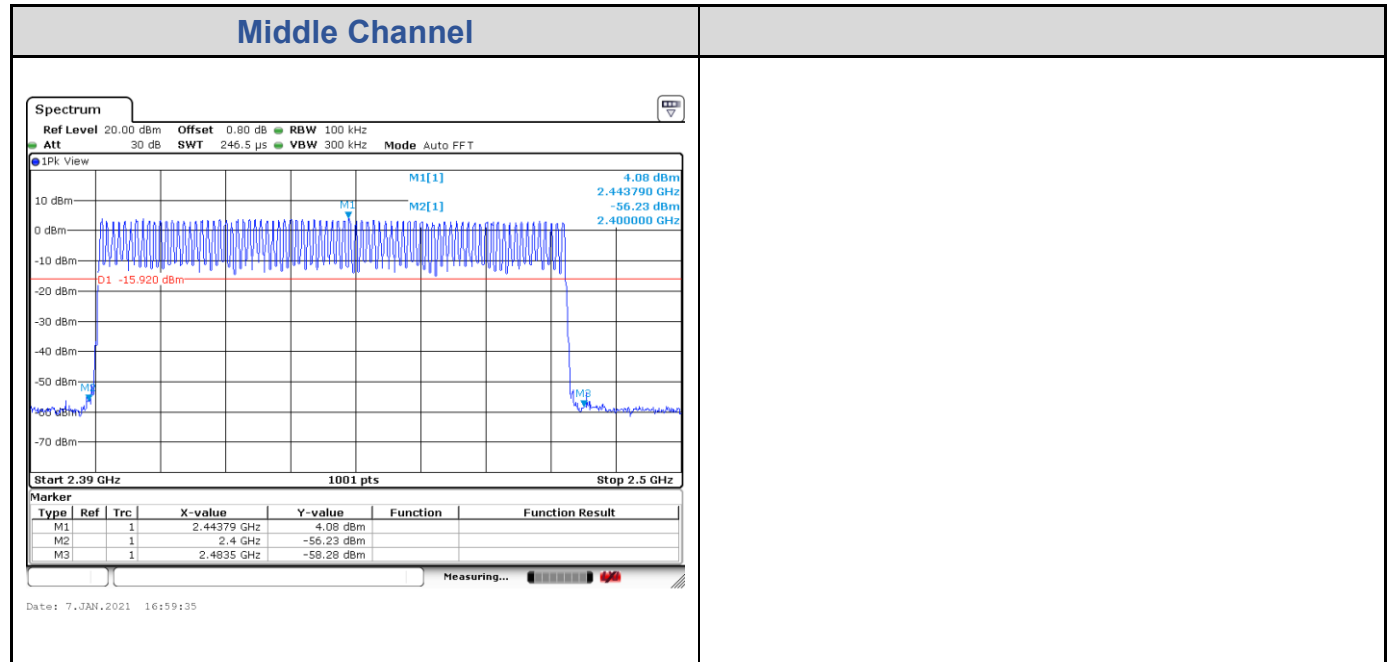


8DPSK

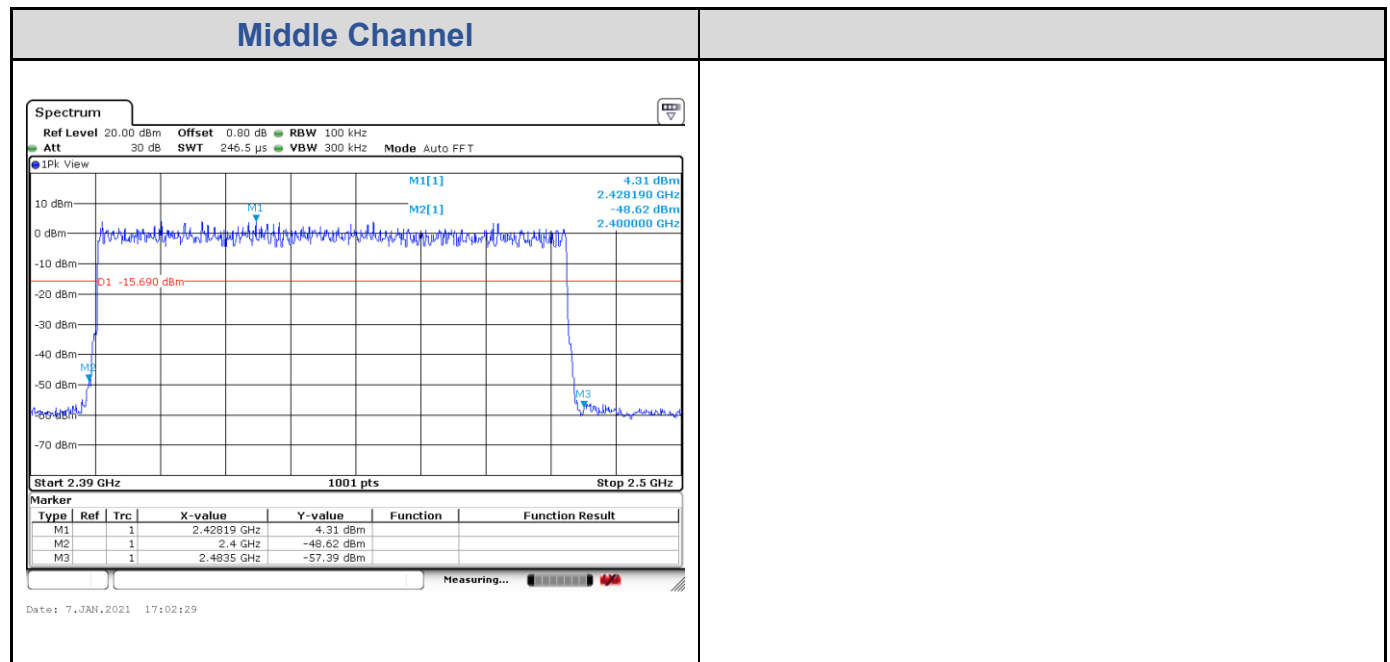


Test Result of Hopping Band Edge

GFSK



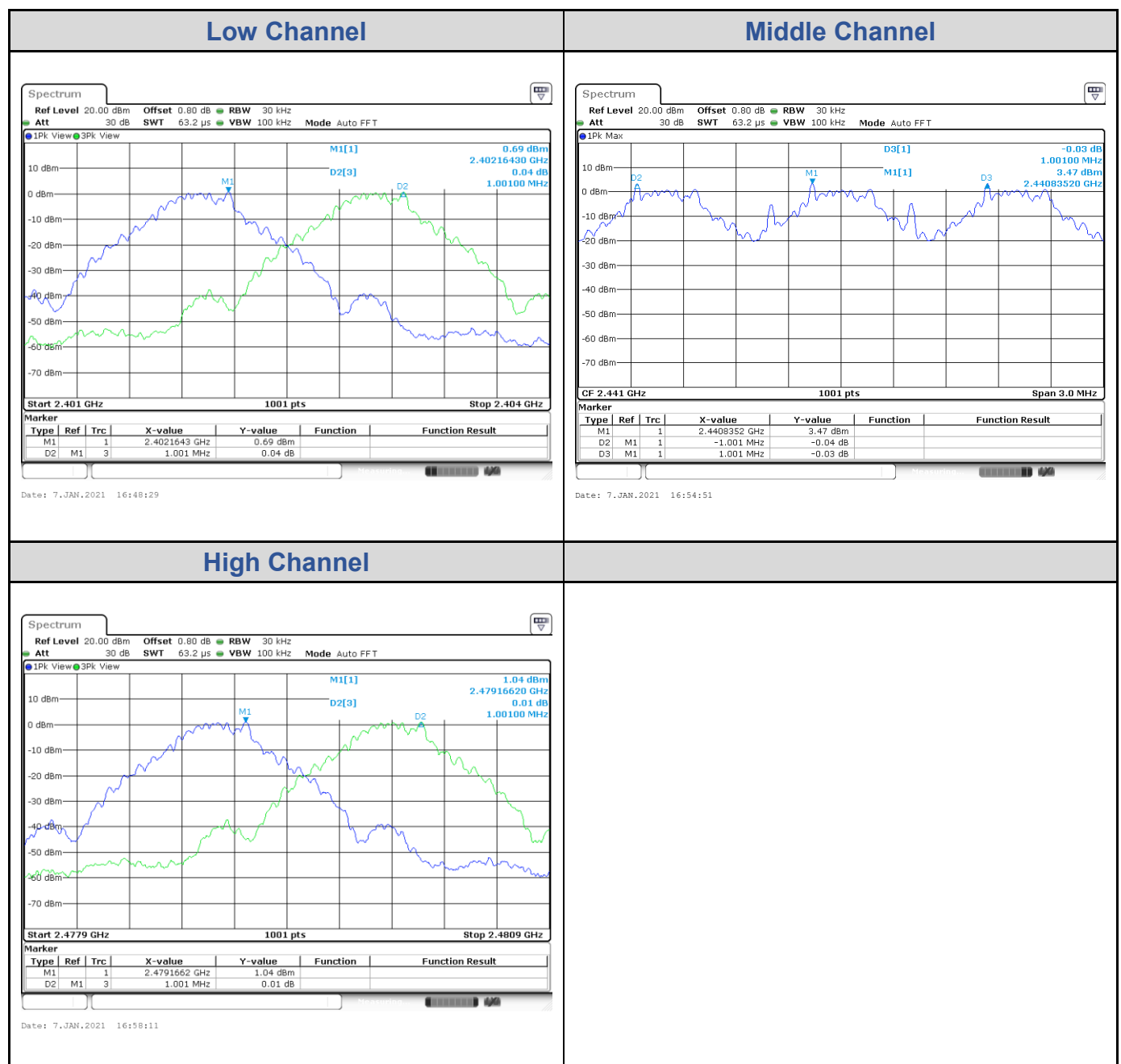
8DPSK



Test Result of Hopping Channel Separation

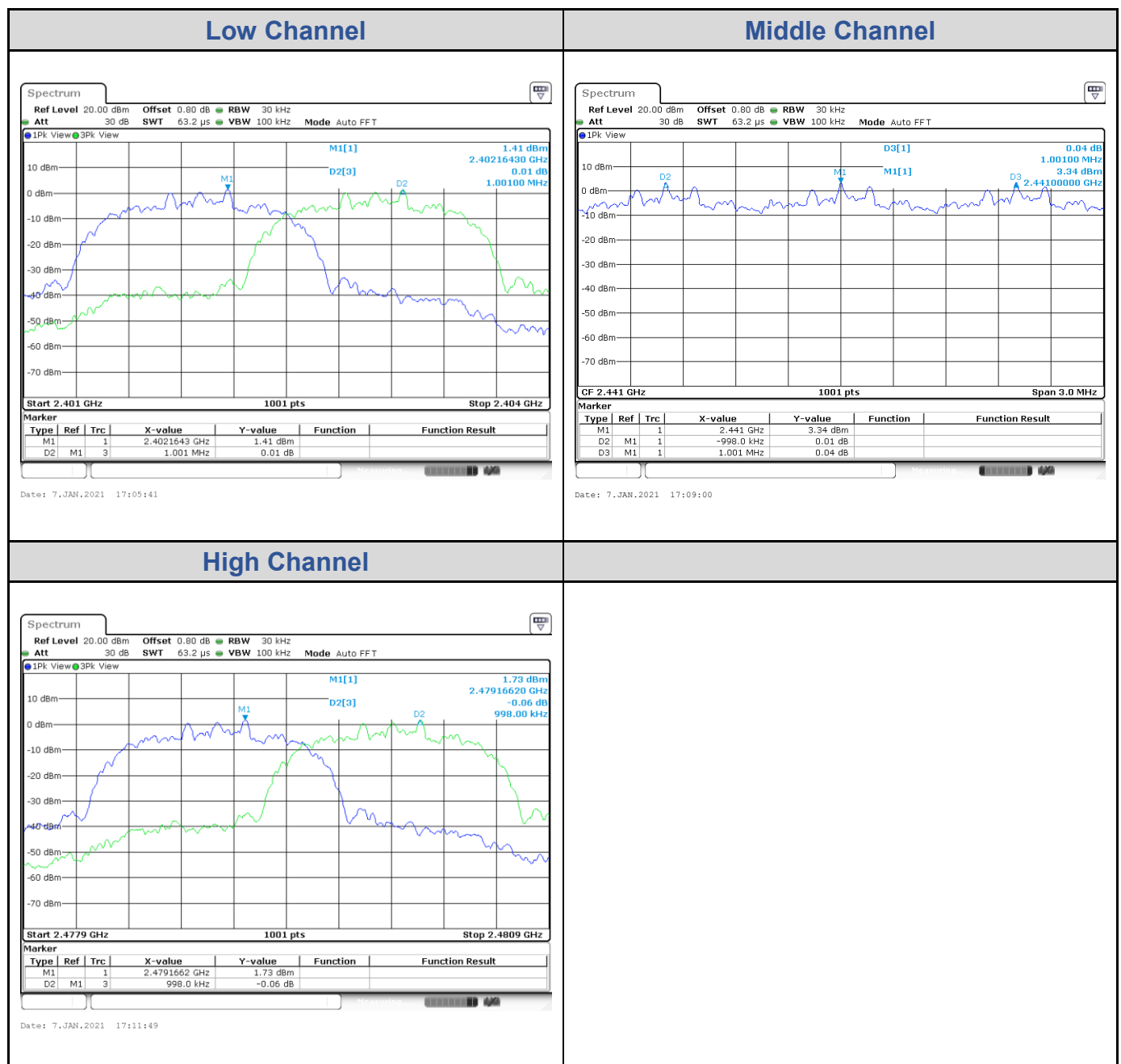
GFSK

Channel	Channel Frequency (MHz)	Adjacent Channel Separation (MHz)	20 dB Bandwidth (kHz)	Minimum Limit (MHz)	Result
0	2402	1.00	950.05	0.633	Pass
39	2441	1.00	953.05	0.635	Pass
78	2480	1.00	953.00	0.635	Pass



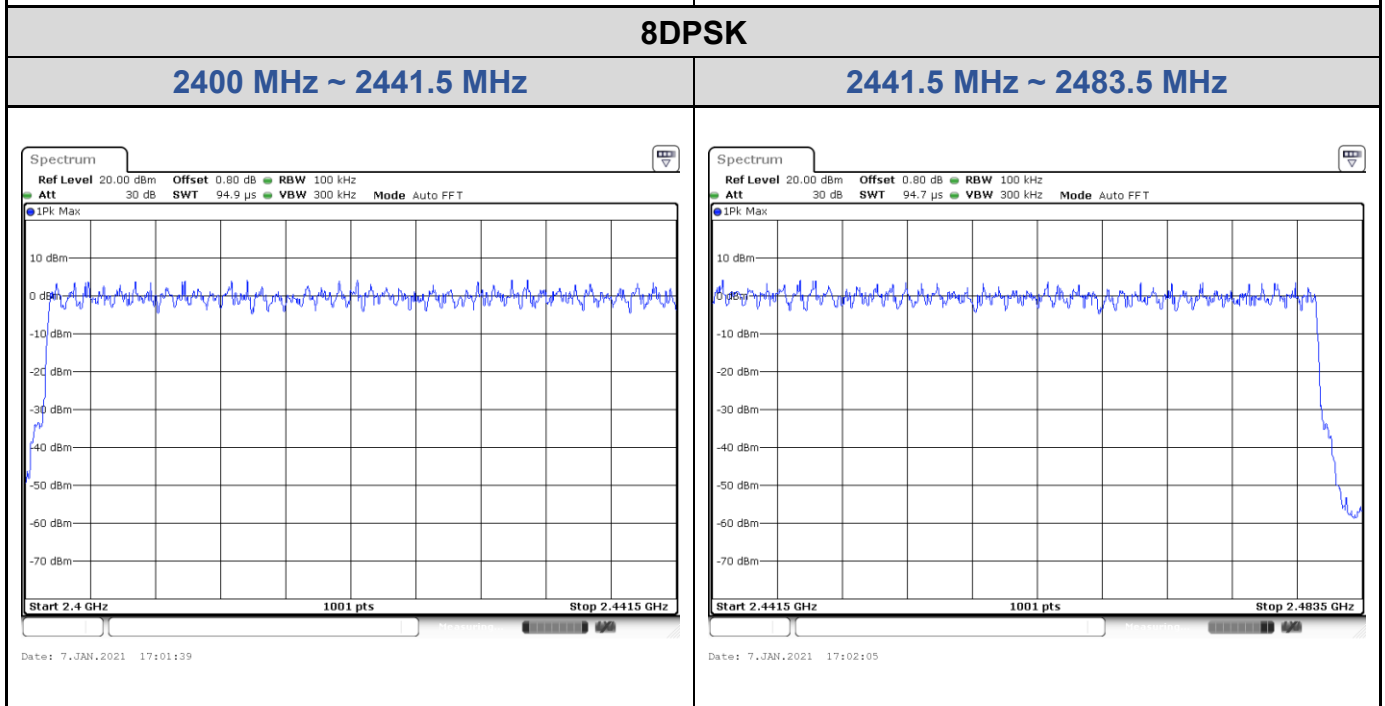
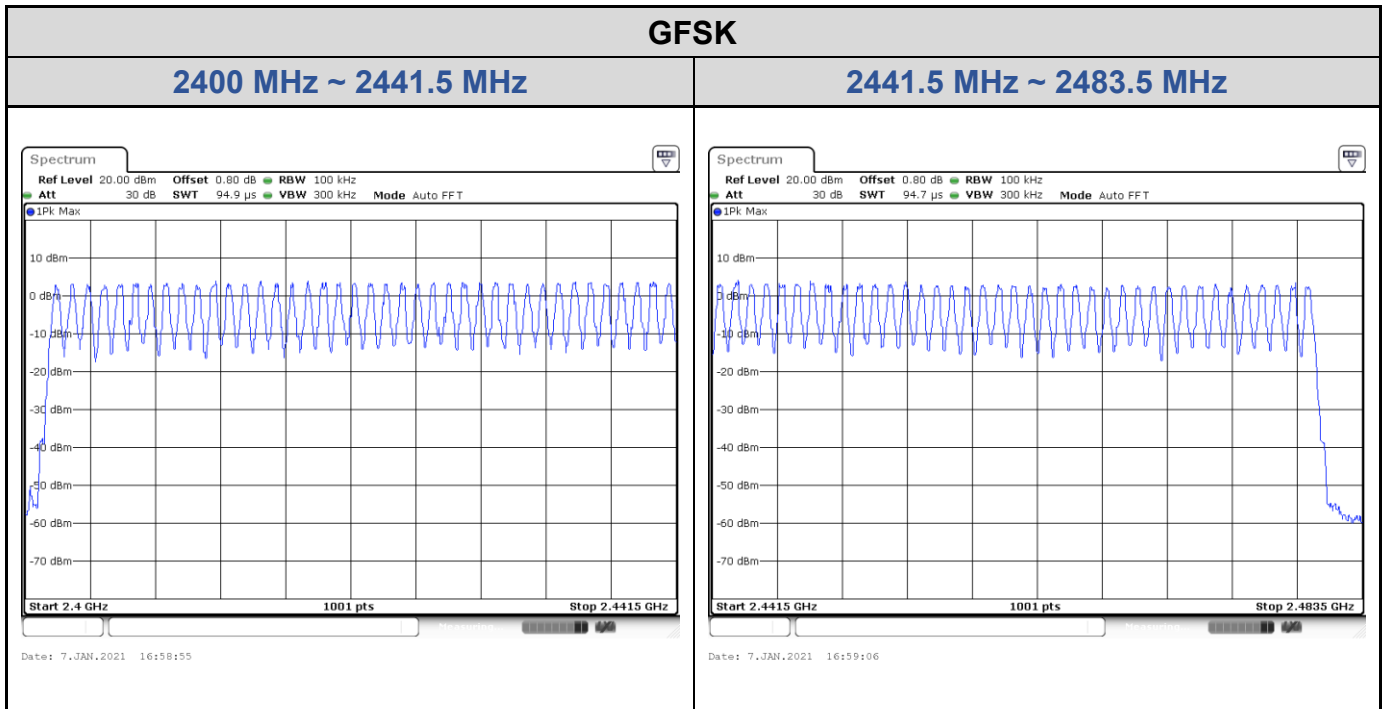
8DPSK

Channel	Channel Frequency (MHz)	Adjacent Channel Separation (MHz)	20 dB Bandwidth (kHz)	Minimum Limit (MHz)	Result
0	2402	1.00	1300.70	0.867	Pass
39	2441	1.00	1300.70	0.867	Pass
78	2480	1.00	1297.70	0.865	Pass



Test Result of Number of Hopping Frequency

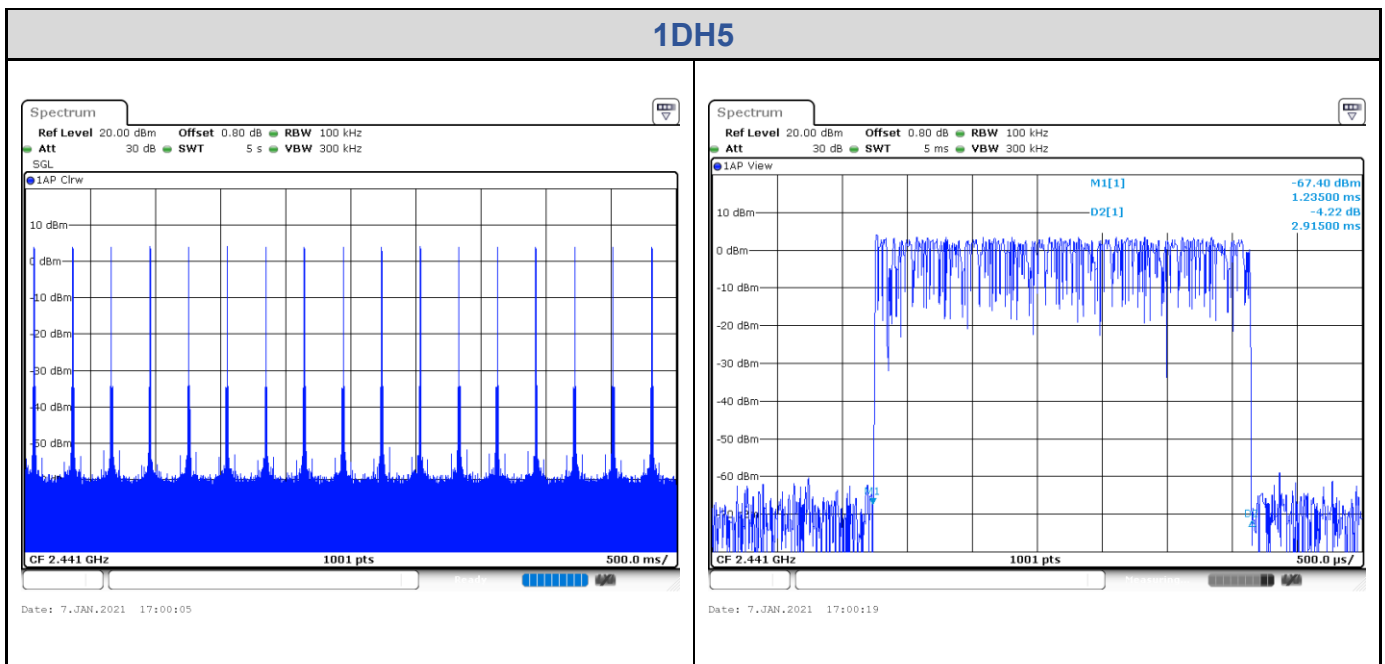
Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
2400 to 2483.5 MHz	79	≥ 15	Pass



Test Result of Dwell Time

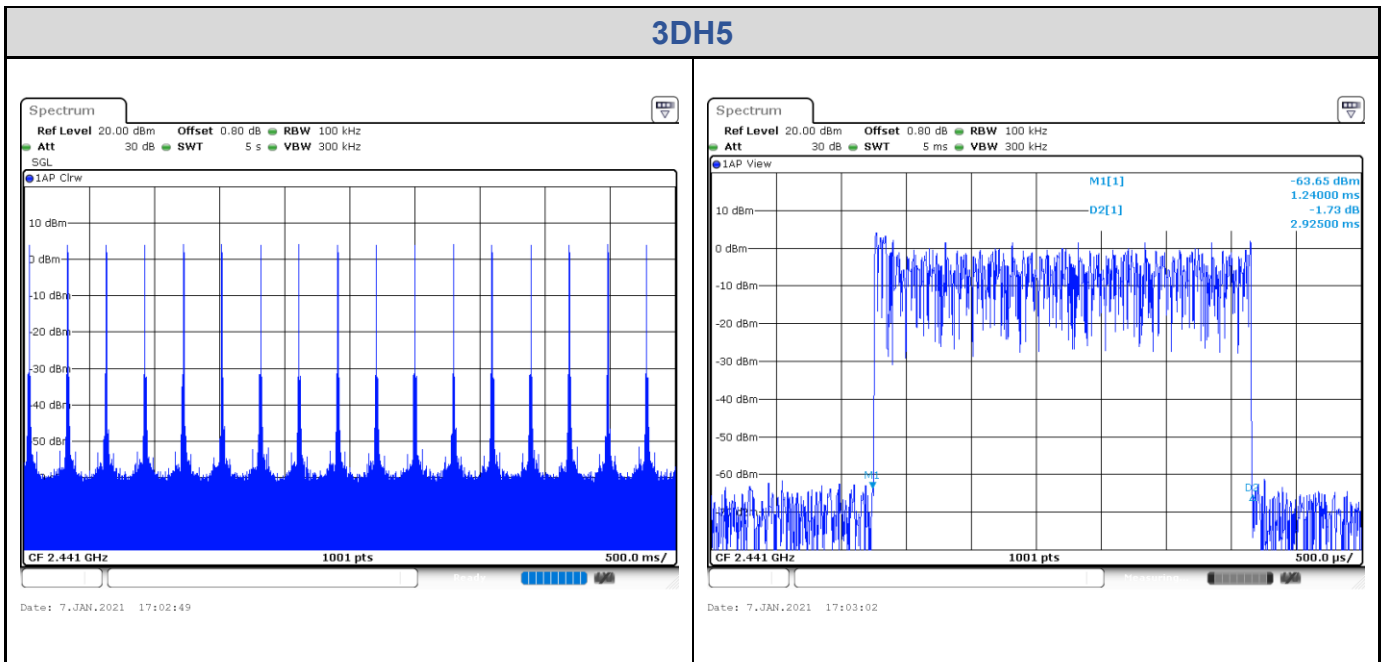
GFSK

Data Mode	Number of transfer in a 31.6 (79Hopping*0.4s)	Package transfer time (msec)	Dwell time (s)	Limit (s)	Result
1DH5	17 (times / 5 sec) * 6.32 = 107.44 times	2.915	0.313	0.4	Pass



8DPSK

Data Mode	Number of transfer in a 31.6 (79Hopping*0.4s)	Package transfer time (msec)	Dwell time (s)	Limit (s)	Result
3DH5	17 (times / 5 sec) * 6.32 = 107.44 times	2.925	0.314	0.4	Pass



Appendix B: Test Results of Radiated Emissions & Mains Conducted

Emission Test

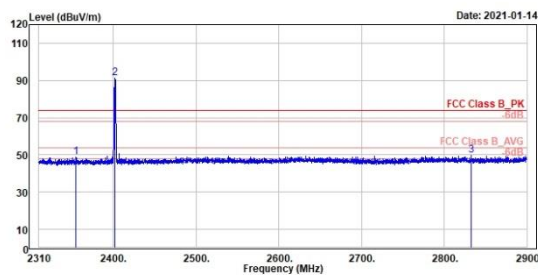
Band Edges, 2.31GHz ~ 2.9GHz

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Low Channel (Horizontal) Peak



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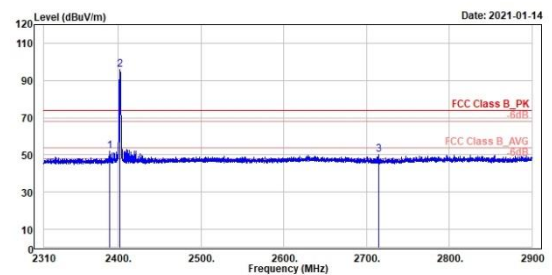


Peak	Freq	Level	Read	Level	Factor	Limit	Over	Apos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2354.64	48.84	15.10	33.74	74.00	-25.16	106	58	Peak	Horizontal		
2	2402.00	91.30	57.45	33.85	74.00	17.30	106	58	Peak	Horizontal		
3	2832.51	49.82	15.64	34.18	74.00	-24.18	106	58	Peak	Horizontal		

Low Channel (Vertical) Peak



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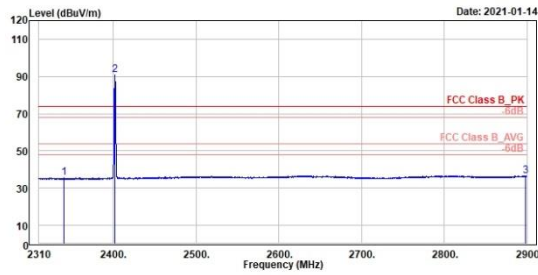
Peak	Freq	Level	Read	Level	Factor	Limit	Over	Apos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.15	51.81	17.98	33.83	74.00	-22.19	264	334	Peak	Vertical		
2	2402.00	95.64	61.79	33.85	74.00	21.64	264	334	Peak	Vertical		
3	2714.72	50.01	15.94	34.07	74.00	-23.99	264	334	Peak	Vertical		

GFSK

Low Channel (Horizontal) Average



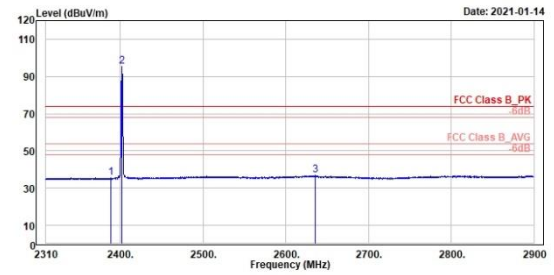
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2340.74	35.54	1.83	33.71	54.00	-18.46	106	58	Average	Horizontal	
2 *	2402.00	90.05	57.00	33.05	54.00	36.05	106	58	Average	Horizontal	
3	2898.35	36.68	2.26	34.42	54.00	-17.32	106	58	Average	Horizontal	



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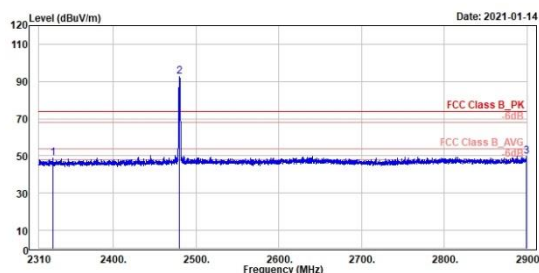
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2388.09	35.53	1.70	33.83	54.00	-18.47	264	334	Average	Vertical	
2 *	2402.00	95.20	61.35	33.85	54.00	41.20	264	334	Average	Vertical	
3	2635.33	36.86	2.66	34.20	54.00	-17.14	264	334	Average	Vertical	

GFSK

High Channel (Horizontal) Peak



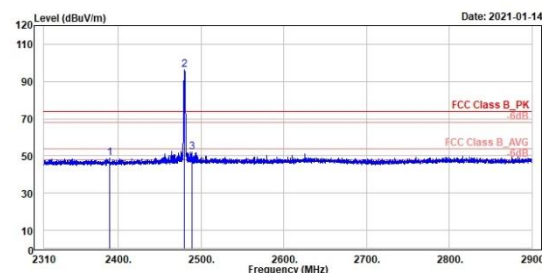
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2327.20	48.75	15.08	33.67	74.00	-25.25	185	57	Peak	Horizontal	
2 *	2488.20	92.47	58.49	33.98	74.00	18.47	185	57	Peak	Horizontal	
3	2899.53	49.93	15.50	34.43	74.00	-24.07	185	57	Peak	Horizontal	



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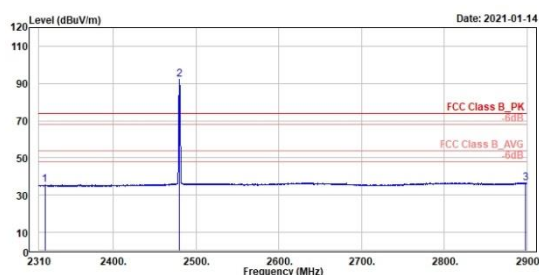
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2389.51	48.68	14.85	33.83	74.00	-25.32	304	330	Peak	Vertical	
2 *	2488.00	96.26	62.28	33.98	74.00	22.26	304	330	Peak	Vertical	
3	2489.16	52.00	18.01	33.99	74.00	-22.00	304	330	Peak	Vertical	

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High Channel (Horizontal) Average



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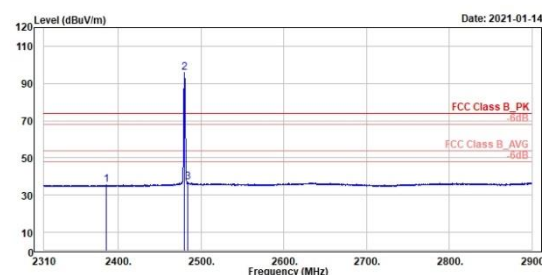


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2317.19	35.47	1.82	33.65	54.00	-18.53	185	57	Average	Horizontal	
2 *	2480.00	92.05	58.87	33.98	54.00	38.05	185	57	Average	Horizontal	
3	2898.23	36.65	2.23	34.42	54.00	-17.35	185	57	Average	Horizontal	

High Channel (Vertical) Average



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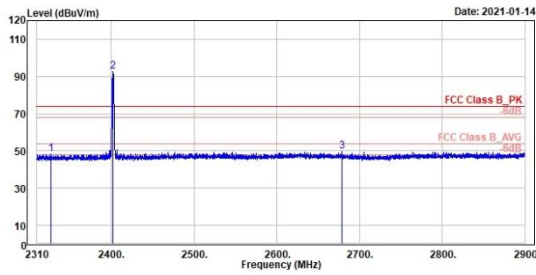
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2385.15	35.44	1.63	33.81	54.00	-18.56	304	330	Average	Vertical	
2 *	2480.00	95.85	61.87	33.98	54.00	41.85	304	330	Average	Vertical	
3	2484.21	36.73	2.75	33.98	54.00	-17.27	304	330	Average	Vertical	

8DPSK

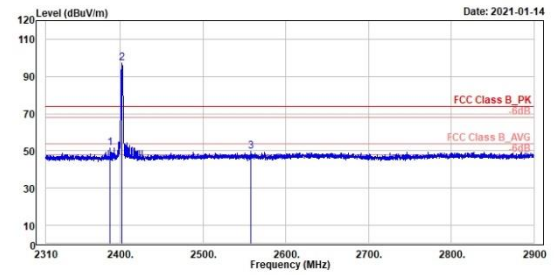
Low Channel (Horizontal) Peak



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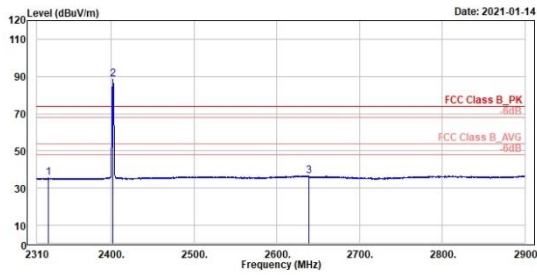


8DPSK

Low Channel (Horizontal) Average



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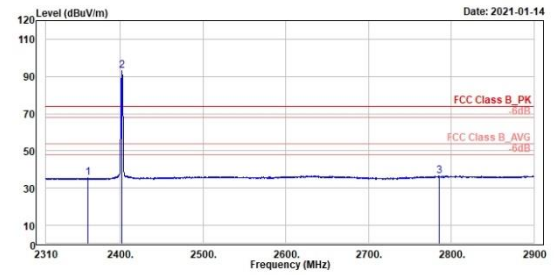


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2323.55	35.41	1.74	33.67	54.00	-18.59	106	58	Average	Horizontal	
2 *	2402.00	88.38	54.53	33.85	54.00	34.38	106	58	Average	Horizontal	
3	2638.75	36.57	2.38	34.19	54.00	-17.43	106	58	Average	Horizontal	

Low Channel (Vertical) Average



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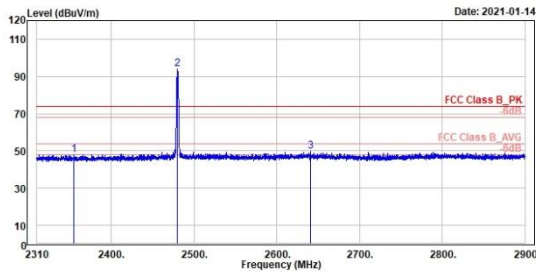
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2368.65	35.41	1.66	33.75	54.00	-18.59	265	334	Average	Vertical	
2 *	2402.00	92.85	59.00	33.85	54.00	38.85	265	334	Average	Vertical	
3	2785.27	36.63	2.54	34.09	54.00	-17.37	265	334	Average	Vertical	

8DPSK

High Channel (Horizontal) Peak



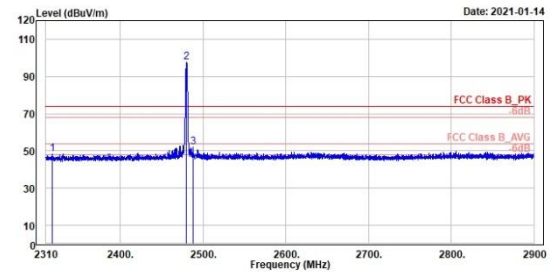
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2354.29	48.12	14.38	33.74	74.00	-25.88	184	58	Peak	Horizontal	
2 *	2488.00	93.76	59.78	33.98	74.00	19.76	184	58	Peak	Horizontal	
3	2640.51	49.85	15.67	34.18	74.00	-24.15	184	58	Peak	Horizontal	



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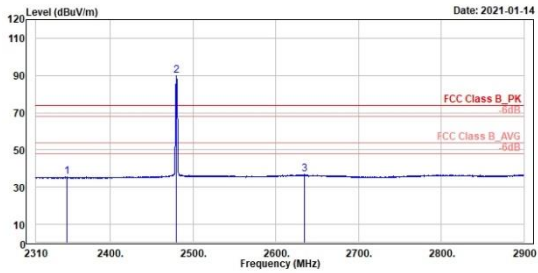
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2317.42	48.50	14.85	33.65	74.00	-25.50	303	337	Peak	Vertical	
2 *	2488.00	97.83	63.85	33.98	74.00	23.83	303	337	Peak	Vertical	
3	2488.10	51.81	17.82	33.99	74.00	-22.19	303	337	Peak	Vertical	

8DPSK

High Channel (Horizontal) Average



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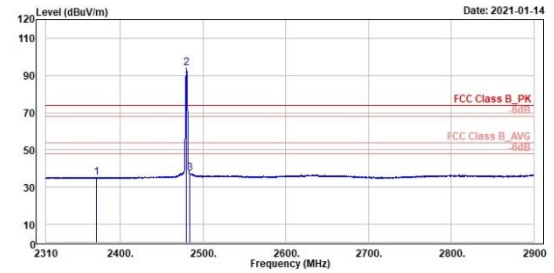


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2347.22	35.43	1.71	33.72	54.00	-18.57	104	58	Average	Horizontal		
2 *	2480.00	89.66	55.68	33.98	54.00	35.66	104	58	Average	Horizontal		
3	2634.62	36.80	2.60	34.20	54.00	-17.20	104	58	Average	Horizontal		

High Channel (Vertical) Average



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2371.01	35.31	1.53	33.78	54.00	-18.69	303	337	Average	Vertical		
2 *	2480.00	93.84	59.86	33.98	54.00	39.84	303	337	Average	Vertical		
3	2483.50	37.44	3.46	33.98	54.00	-16.56	303	337	Average	Vertical		

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

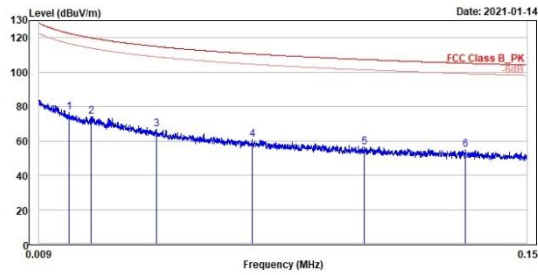
GFSK

High Channel(Open) 9kHz~150kHz

High Channel(Open) 150kHz~30MHz



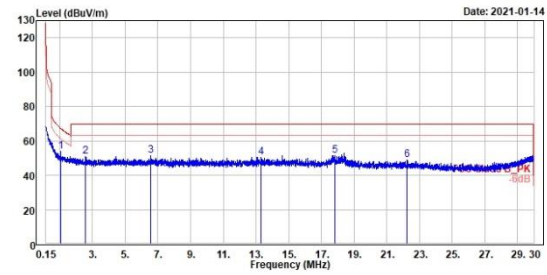
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.02	76.44	2.45	73.99	122.63	-46.19	100	322	QP	Open	
2	0.02	73.90	2.11	71.79	119.92	-46.02	100	158	QP	Open	
3	0.04	66.54	-0.30	66.84	114.95	-48.41	100	26	QP	Open	
4	0.07	60.96	-1.31	62.27	110.60	-49.64	100	7	QP	Open	
5	0.10	56.48	-2.59	59.07	107.33	-50.85	100	324	QP	Open	
6	0.13	54.78	-2.60	57.38	105.17	-50.39	100	91	QP	Open	



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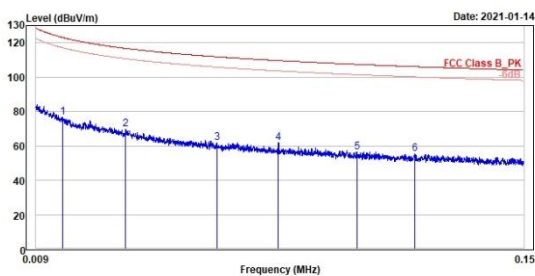
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	1.05	54.02	14.09	39.93	67.19	-13.17	100	357	QP	Open	
2	2.59	50.68	12.26	38.42	69.50	-18.82	100	277	QP	Open	
3	6.55	51.61	13.25	38.36	69.50	-17.89	100	236	QP	Open	
4	13.30	50.48	13.01	37.47	69.50	-19.02	100	25	QP	Open	
5	17.84	51.46	14.57	36.89	69.50	-18.04	100	359	QP	Open	
6	22.24	48.74	12.94	35.80	69.50	-20.76	100	254	QP	Open	

GFSK

High Channel(Close) 9kHz~150kHz



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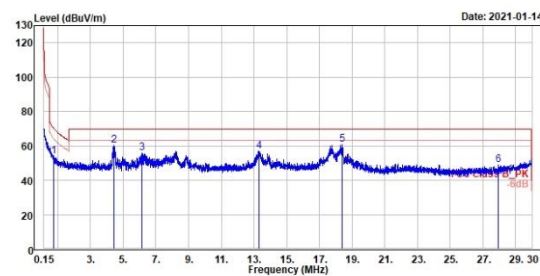


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.02	76.85	2.20	74.65	123.16	-46.31	100	100 QP	Close		
2	0.03	69.68	0.52	69.16	116.72	-47.04	100	106 QP	Close		
3	0.06	61.00	-1.69	63.49	111.85	-50.05	100	318 QP	Close		
4	0.08	61.00	0.45	61.35	109.63	-47.83	100	152 QP	Close		
5	0.10	56.58	-2.57	59.15	107.45	-50.87	100	358 QP	Close		
6	0.12	55.39	-2.79	58.18	106.13	-50.74	100	136 QP	Close		

High Channel(Close) 150kHz~30MHz



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.76	53.88	11.88	42.00	70.03	-16.15	100	331 QP	Close		
2	4.45	60.50	22.17	38.33	69.50	-9.00	100	0 QP	Close		
3	6.15	55.84	17.49	38.35	69.50	-13.66	100	336 QP	Close		
4	13.33	56.76	19.28	37.48	69.50	-12.74	100	274 QP	Close		
5	18.39	60.84	24.14	36.70	69.50	-8.66	100	196 QP	Close		
6	27.94	48.92	13.86	35.06	69.50	-20.58	100	276 QP	Close		

	Freq	Level	Read Level Factor	Limit Line	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	Hz		dBuV/m	dB/m	dBuV/m		dB	cm	deg	
1	75.30	31.32	42.48	-11.16	40.00	-8.68	300	168	0P	Vertical
2	168.00	25.30	32.58	-7.20	43.50	-15.90	300	266	0P	Vertical
3	288.02	25.74	32.47	-6.73	46.00	-20.26	260	51	0P	Vertical
4	480.01	29.68	34.20	-4.52	46.00	-16.32	230	230	0P	Vertical
5	686.67	30.20	33.15	-1.87	46.00	-15.80	200	180	0P	Vertical
6	732.28	31.60	30.31	0.78	46.00	-14.91	100	184	0P	Vertical

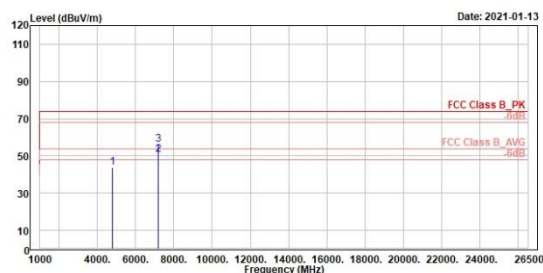
Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

GFSK

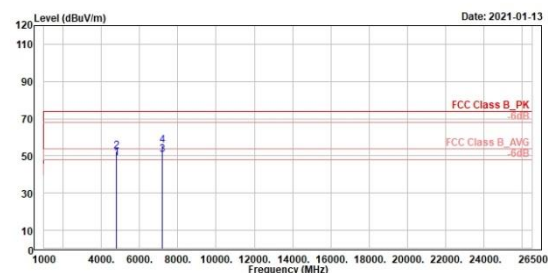
Low Channel (Horizontal)



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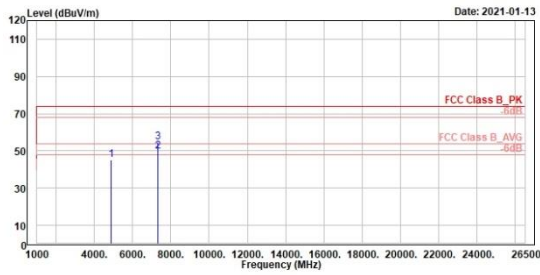


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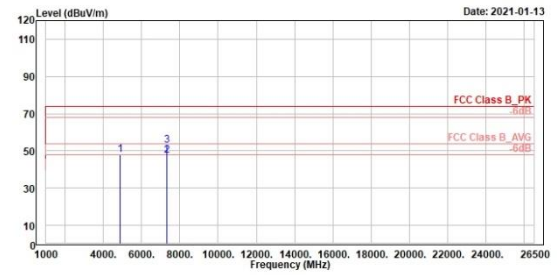
Middle Channel (Horizontal)



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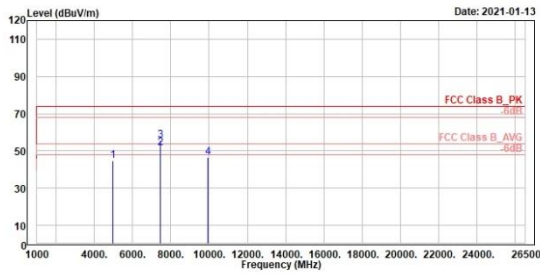


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High Channel (Horizontal)



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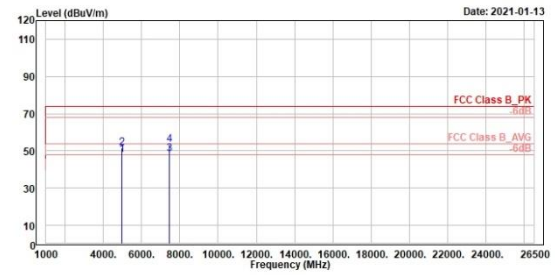


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	4968.00	44.68	54.33	-9.65	74.00	-29.32	390	96	Peak	Horizontal	
2	7440.00	51.48	58.96	-7.48	54.00	-2.52	250	76	Average	Horizontal	
3	7440.00	55.81	63.29	-7.48	74.00	-18.19	250	76	Peak	Horizontal	
4	9920.00	46.34	50.83	-4.49	74.00	-27.66	100	155	Peak	Horizontal	

High Channel (Vertical)



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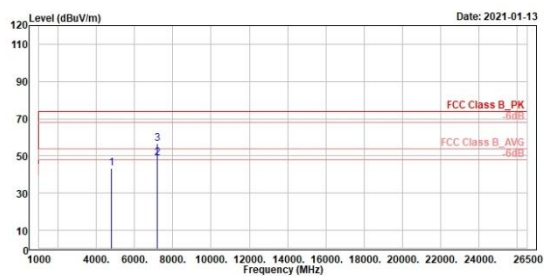
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	cm	deg			
1	4968.00	47.99	57.64	-9.65	54.00	-6.01	197	108	Average	Vertical	
2	4968.00	51.66	61.31	-9.65	74.00	-22.34	197	108	Peak	Vertical	
3	7440.00	48.35	55.83	-7.48	54.00	-5.65	189	79	Average	Vertical	
4	7440.00	53.38	60.86	-7.48	74.00	-20.62	189	79	Peak	Vertical	

8DPSK

Low Channel (Horizontal)



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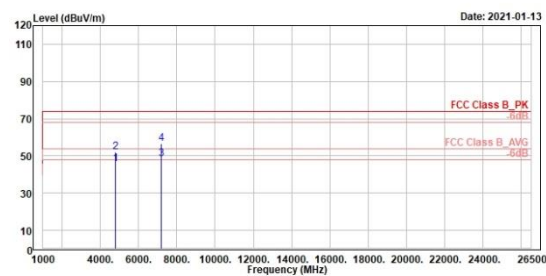


Peak	Freq	Level	Read	Level	Factor	Limit	Over	Apos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4894.00	43.25	53.34	-10.09	74.00	-30.75	200	77	Peak	Horizontal		
2	7206.00	48.96	55.96	-7.00	54.00	-5.04	200	76	Average	Horizontal		
3	7206.00	56.68	63.68	-7.00	74.00	-17.32	200	76	Peak	Horizontal		

Low Channel (Vertical)



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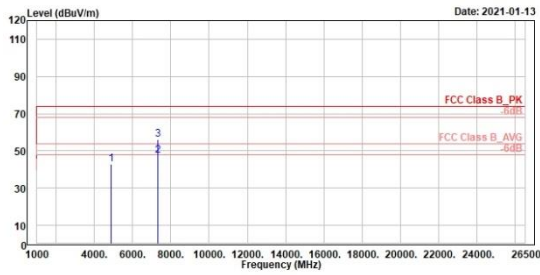
Peak	Freq	Level	Read	Level	Factor	Limit	Over	Apos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4894.00	45.72	55.81	-10.09	54.00	-8.28	202	111	Average	Vertical		
2	4894.00	52.24	62.33	-10.09	74.00	-21.76	202	111	Peak	Vertical		
3	7206.00	48.51	55.51	-7.00	54.00	-5.49	192	80	Average	Vertical		
4	7206.00	56.45	63.45	-7.00	74.00	-17.55	192	80	Peak	Vertical		

8DPSK

Middle Channel (Horizontal)



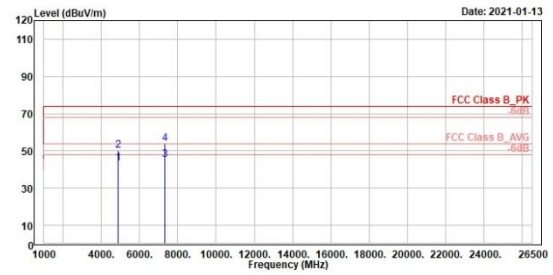
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4882.00	42.70	52.65	-9.95	74.00	-31.30	200	89	Peak	horizontal		
2	7323.00	47.45	54.79	-7.34	54.00	-6.55	211	73	Average	horizontal		
3	7323.00	55.94	63.28	-7.34	74.00	-18.06	211	73	Peak	horizontal		



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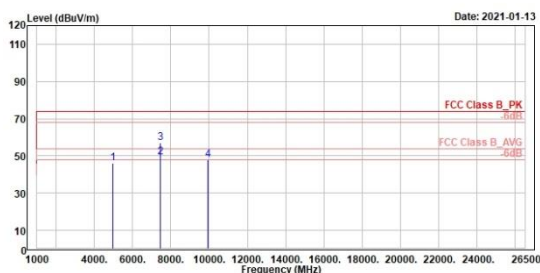
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4882.00	43.39	53.34	-9.95	54.00	-10.61	202	117	Average	vertical		
2	4882.00	50.31	60.26	-9.95	74.00	-23.69	202	117	Peak	vertical		
3	7323.00	44.99	52.33	-7.34	54.00	-9.61	200	73	Average	vertical		
4	7323.00	53.62	60.96	-7.34	74.00	-20.38	200	73	Peak	vertical		

8DPSK

High Channel (Horizontal)



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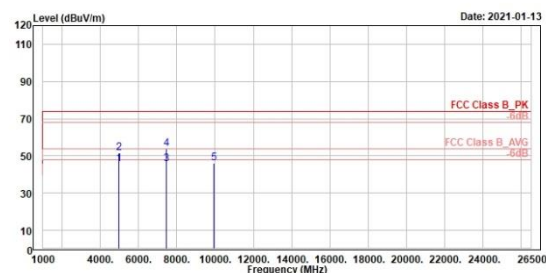


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4968.00	46.02	55.67	-9.65	74.00	-27.98	380	104	Peak	Horizontal	
2	7440.00	49.07	56.55	-7.48	54.00	-4.93	242	69	Average	Horizontal	
3	7440.00	57.07	64.55	-7.48	74.00	-16.93	242	69	Peak	Horizontal	
4	9920.00	47.75	52.24	-4.49	74.00	-26.25	200	51	Peak	Horizontal	

High Channel (Vertical)



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4968.00	45.43	55.08	-9.65	54.00	-8.57	198	107	Average	Vertical	
2	4968.00	51.72	61.37	-9.65	74.00	-22.28	198	107	Peak	Vertical	
3	7440.00	45.70	53.18	-7.48	54.00	-8.30	188	74	Average	Vertical	
4	7440.00	53.80	61.28	-7.48	74.00	-20.20	188	74	Peak	Vertical	
5	9920.00	45.86	50.35	-4.49	74.00	-28.14	100	123	Peak	Vertical	

Mains Conducted Emission, 150kHz ~ 30MHz

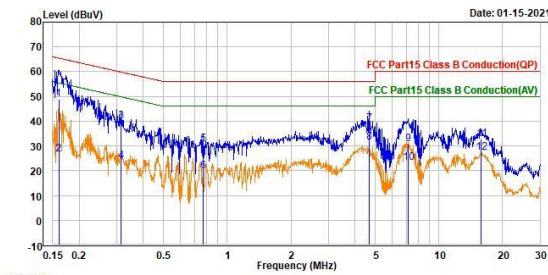
Worst Band

(Line)

(Neutral)



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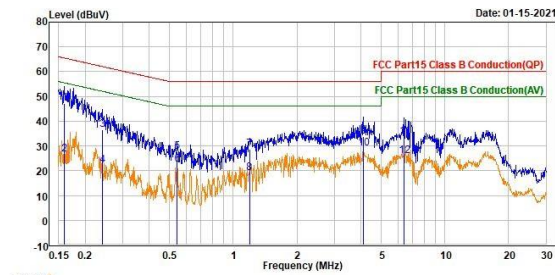


Trace: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dB	dBuV	dBuV	dB			
1	0.160	39.32	9.66	48.98	65.46	-16.48	QP	line1	
2	0.160	17.08	9.66	26.74	55.46	-28.72	Average	line1	
3	0.315	30.24	9.64	39.88	59.83	-19.95	QP	line1	
4	0.315	14.22	9.64	23.86	49.83	-25.97	Average	line1	
5	0.773	21.15	9.67	30.82	56.00	-25.18	QP	line1	
6	0.773	10.25	9.67	19.92	46.00	-26.08	Average	line1	
7	4.674	29.24	9.72	38.96	56.00	-17.04	QP	line1	
8	4.674	21.57	9.72	31.29	46.00	-14.71	Average	line1	
9	7.176	21.00	9.74	30.74	60.00	-29.26	QP	line1	
10	7.176	13.39	9.74	23.13	50.00	-26.87	Average	line1	
11	15.851	22.88	9.75	32.63	60.00	-27.37	QP	line1	
12	15.851	17.40	9.75	27.15	50.00	-22.85	Average	line1	



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Trace: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase	Note
	MHz	dBuV	dB	dBuV	dBuV	dB			
1	0.159	37.59	9.68	47.27	65.50	-18.23	QP	neutral	
2	0.159	16.92	9.68	26.60	55.50	-28.90	Average	neutral	
3	0.241	27.00	9.66	36.66	62.07	-25.41	QP	neutral	
4	0.241	12.60	9.66	22.26	52.07	-29.81	Average	neutral	
5	0.543	17.94	9.66	27.60	56.00	-28.40	QP	neutral	
6	0.543	13.02	9.66	22.68	46.00	-23.32	Average	neutral	
7	1.193	18.87	9.68	28.55	56.00	-27.45	QP	neutral	
8	1.193	9.41	9.68	19.09	46.00	-26.91	Average	neutral	
9	4.127	24.19	9.71	33.90	56.00	-22.10	QP	neutral	
10	4.127	19.21	9.71	28.92	46.00	-17.08	Average	neutral	
11	6.430	24.07	9.76	33.83	60.00	-26.17	QP	neutral	
12	6.430	16.17	9.76	25.93	50.00	-24.07	Average	neutral	