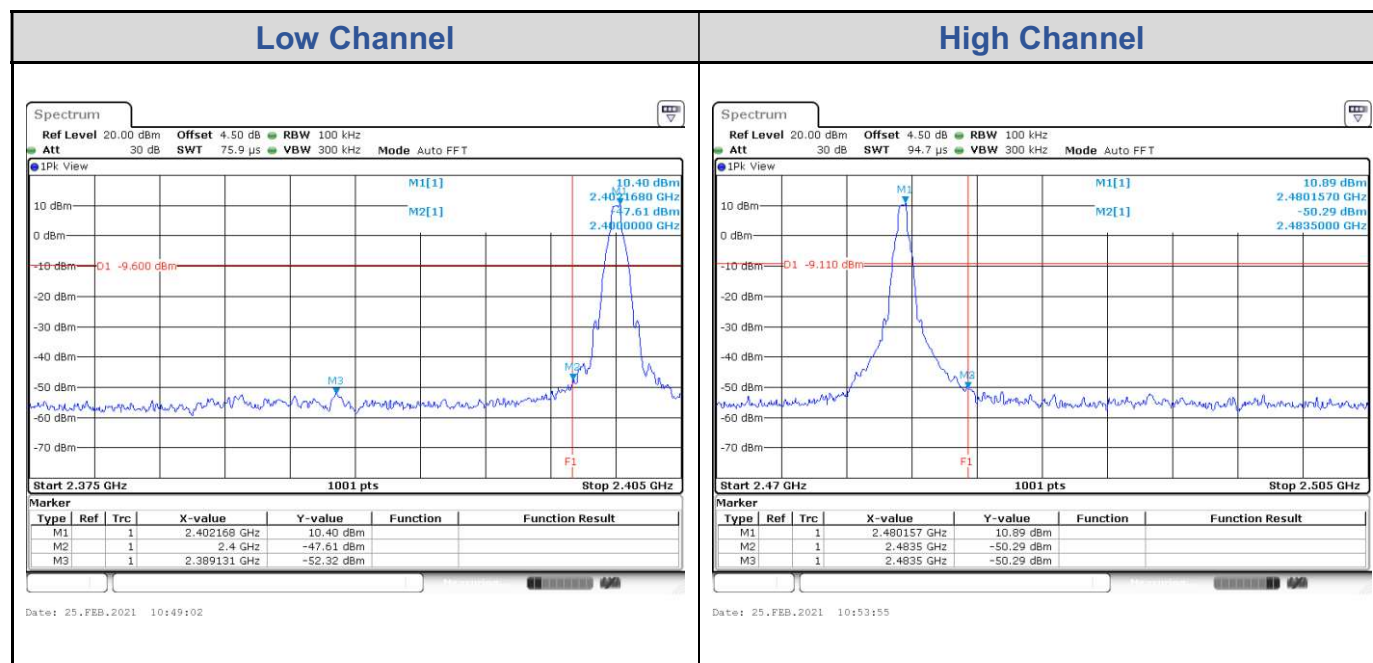
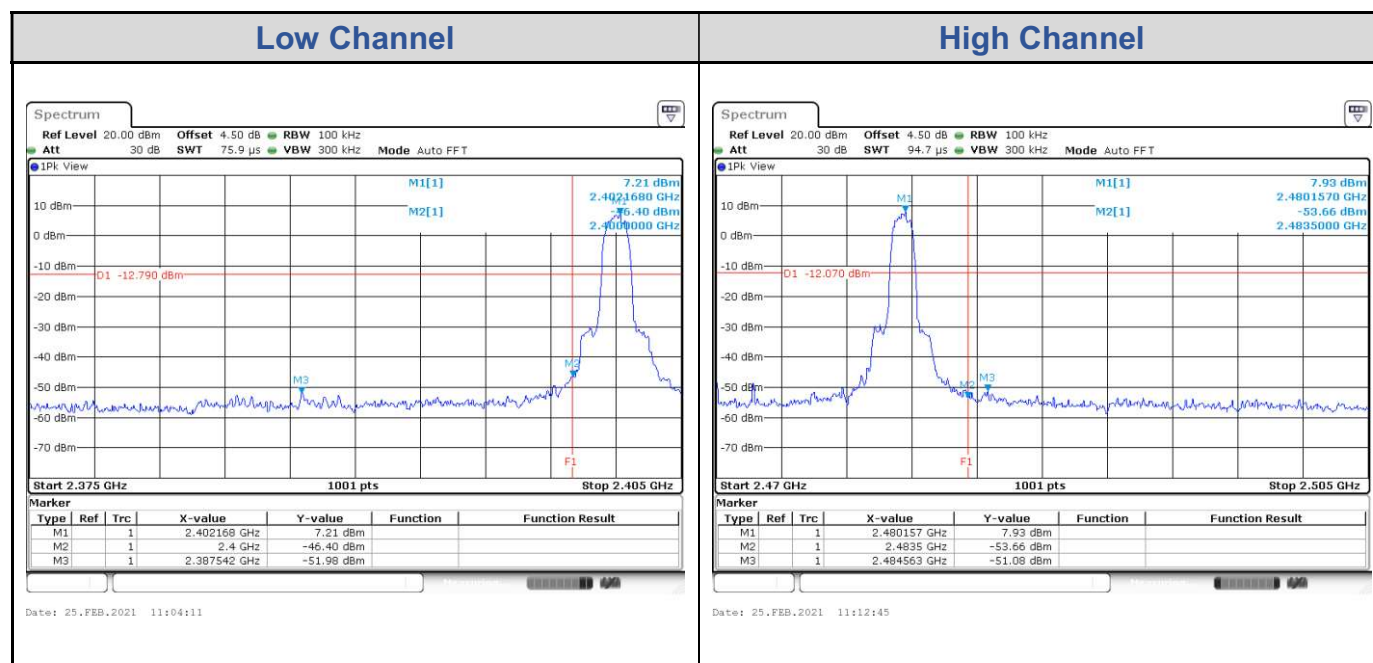


Test Result of Conducted Band Edge, Tx Mode

GFSK

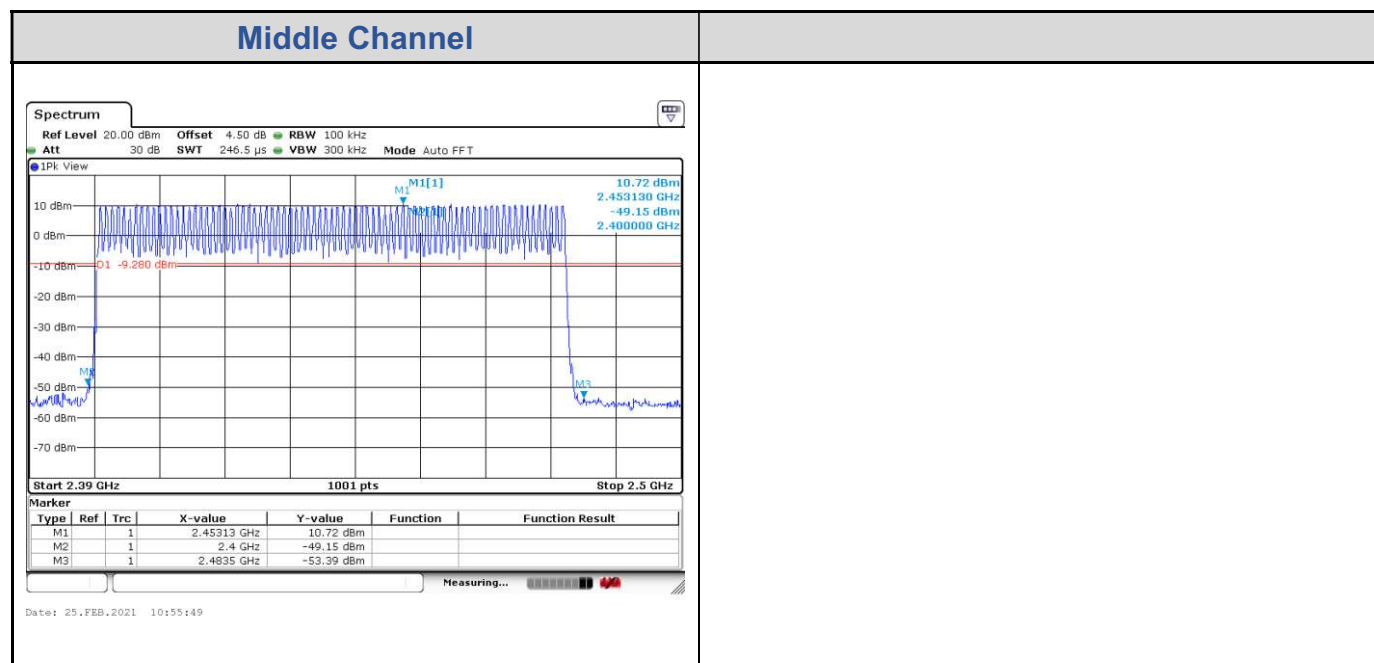


8DPSK

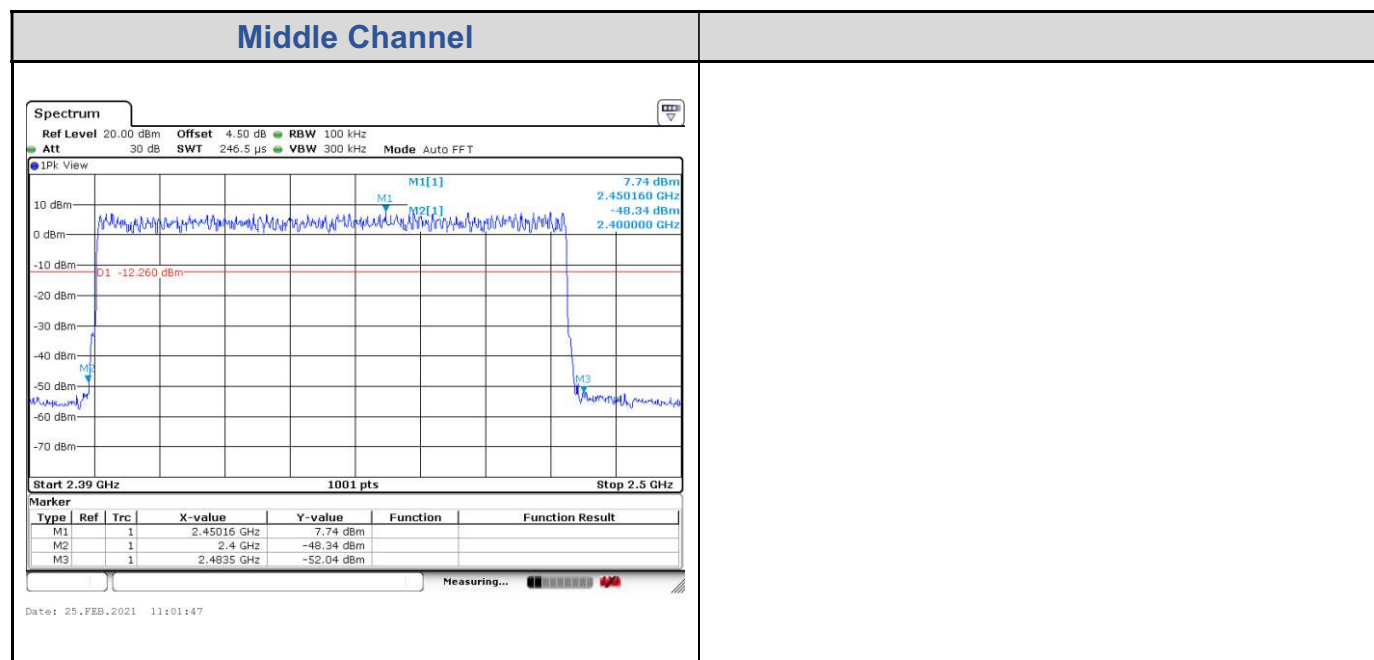


Test Result of Hopping Band Edge

GFSK



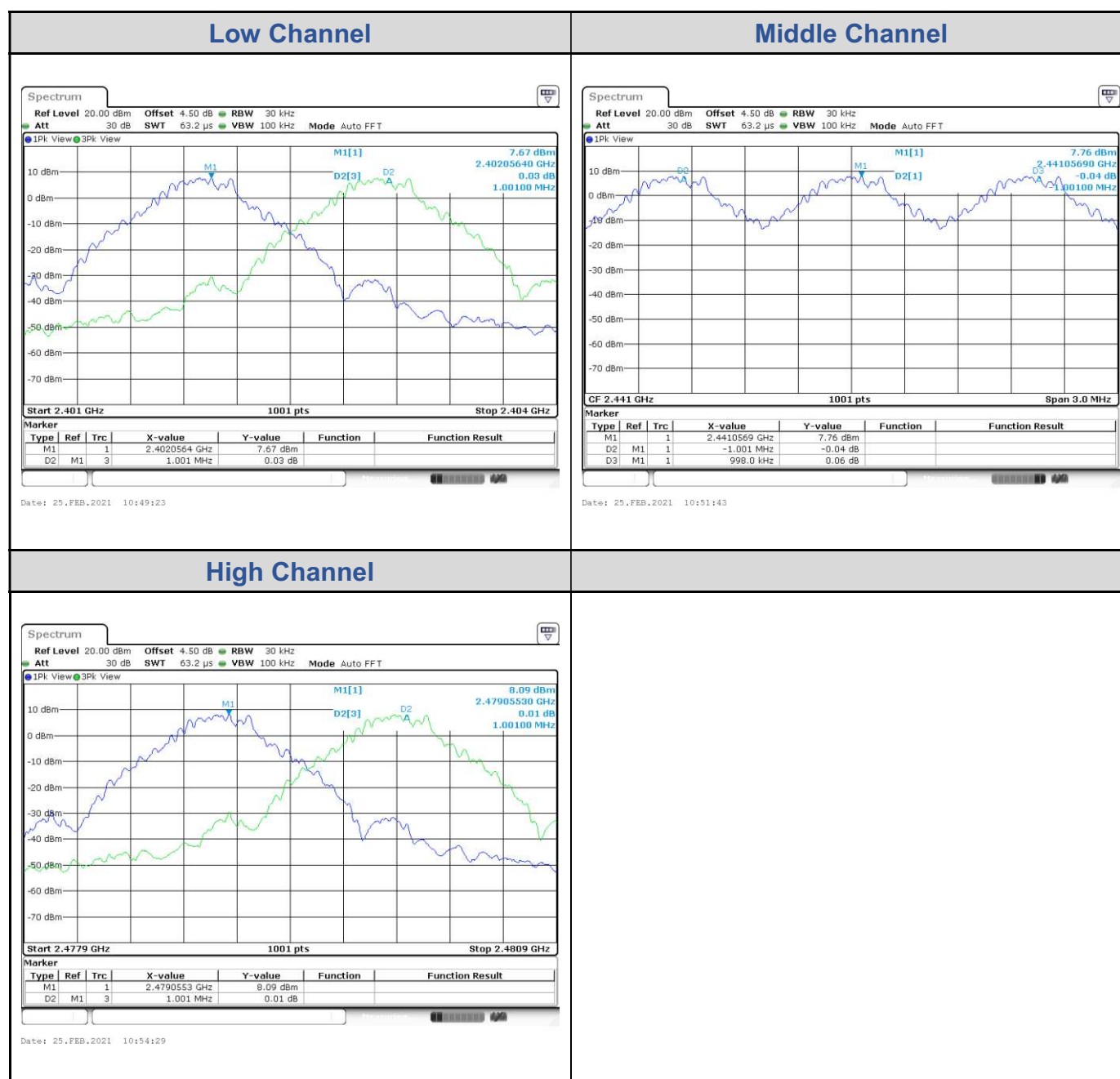
8DPSK



Test Result of Hopping Channel Separation

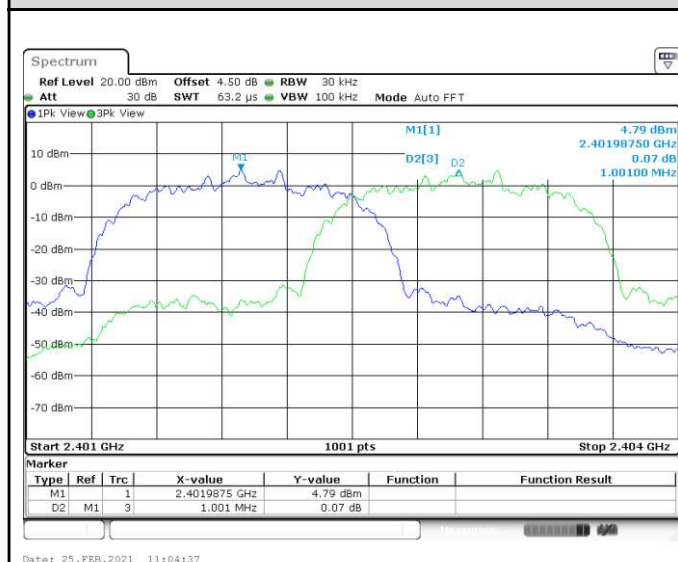
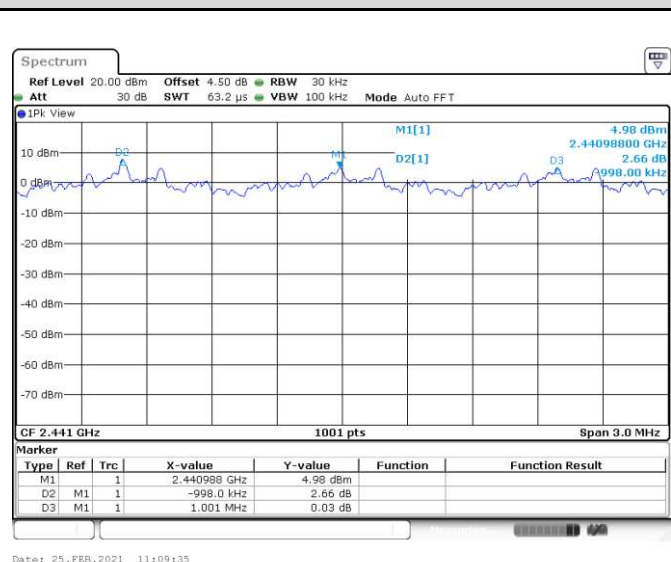
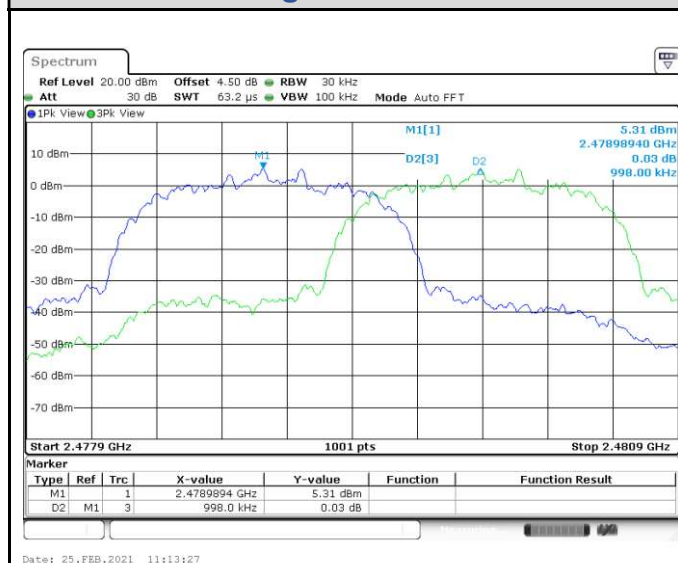
GFSK

Channel	Channel Frequency (MHz)	Adjacent Channel Separation (MHz)	20 dB Bandwidth (MHz)	Minimum Limit (MHz)	Result
0	2402	1.00	0.96	0.637	Pass
39	2441	1.00	0.96	0.637	Pass
78	2480	1.00	0.96	0.637	Pass



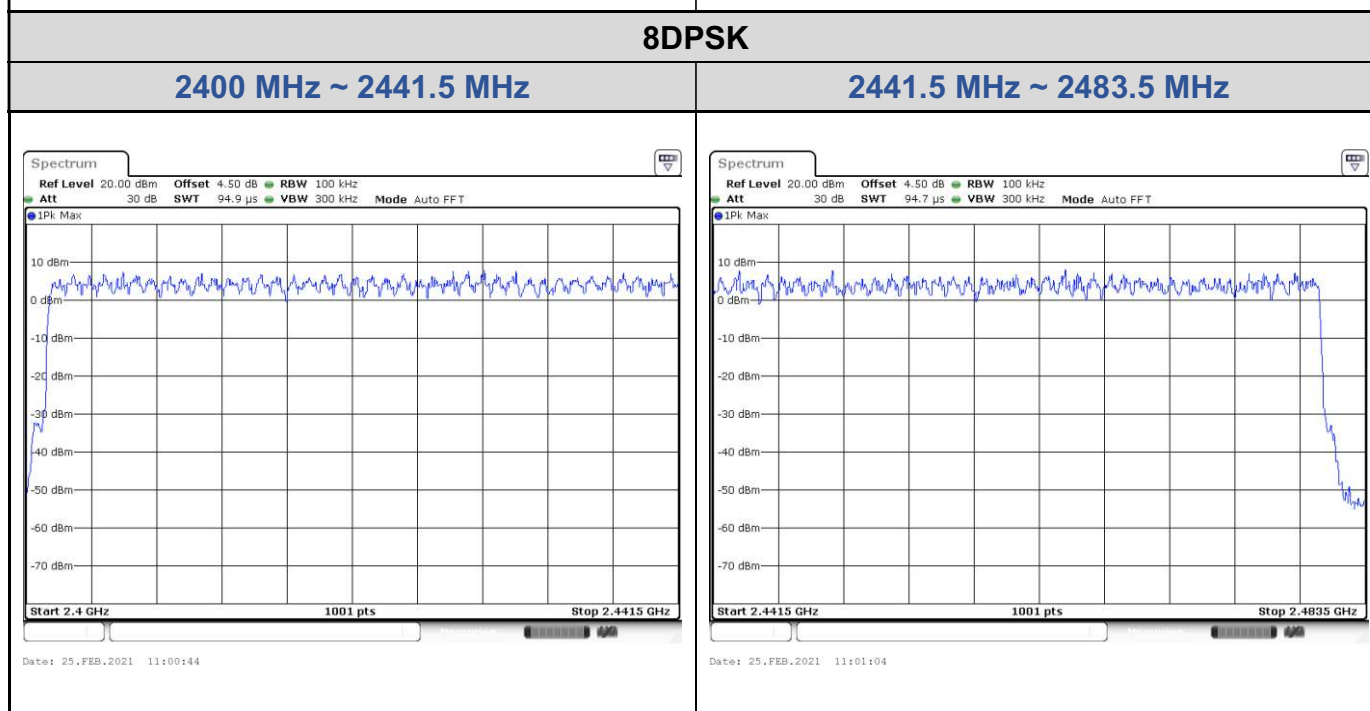
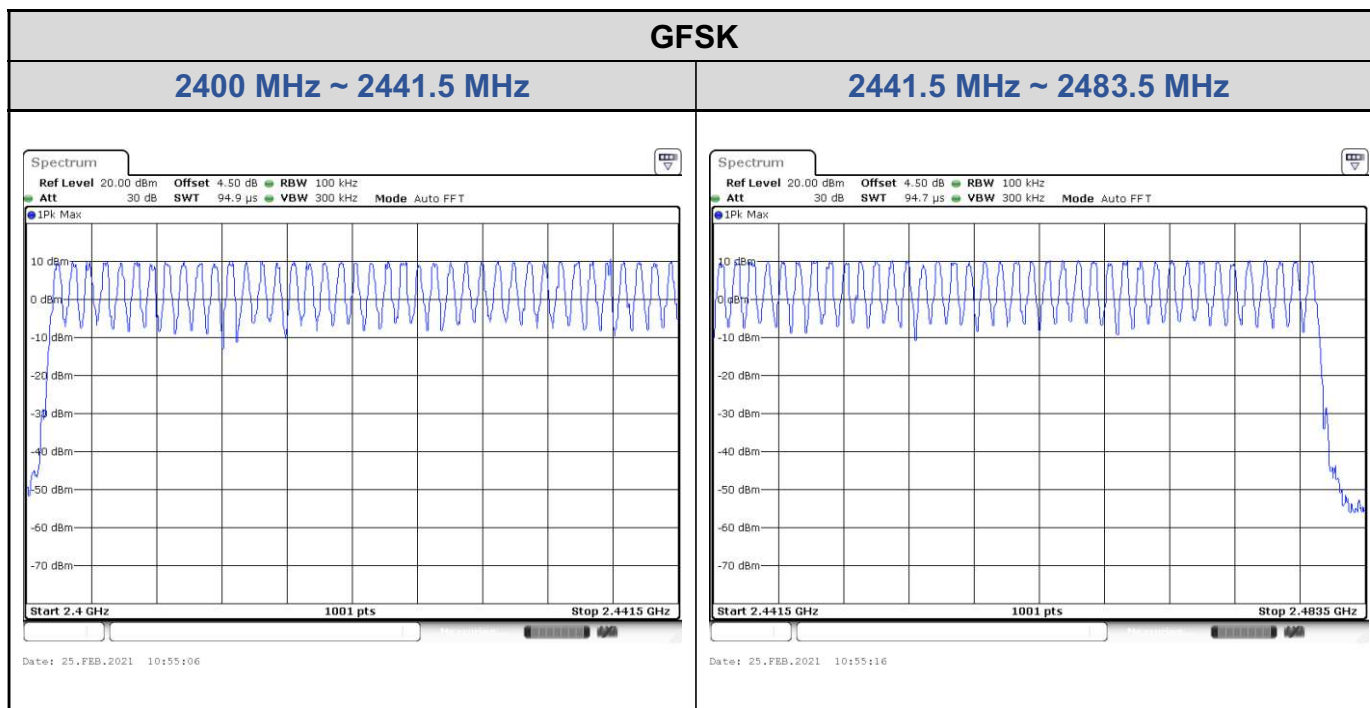
8DPSK

Channel	Channel Frequency (MHz)	Adjacent Channel Separation (MHz)	20 dB Bandwidth (MHz)	Minimum Limit (MHz)	Result
0	2402	1.00	1.31	0.871	Pass
39	2441	1.00	1.31	0.871	Pass
78	2480	1.00	1.27	0.847	Pass

Low Channel

Middle Channel

High Channel


Test Result of Number of Hopping Frequency

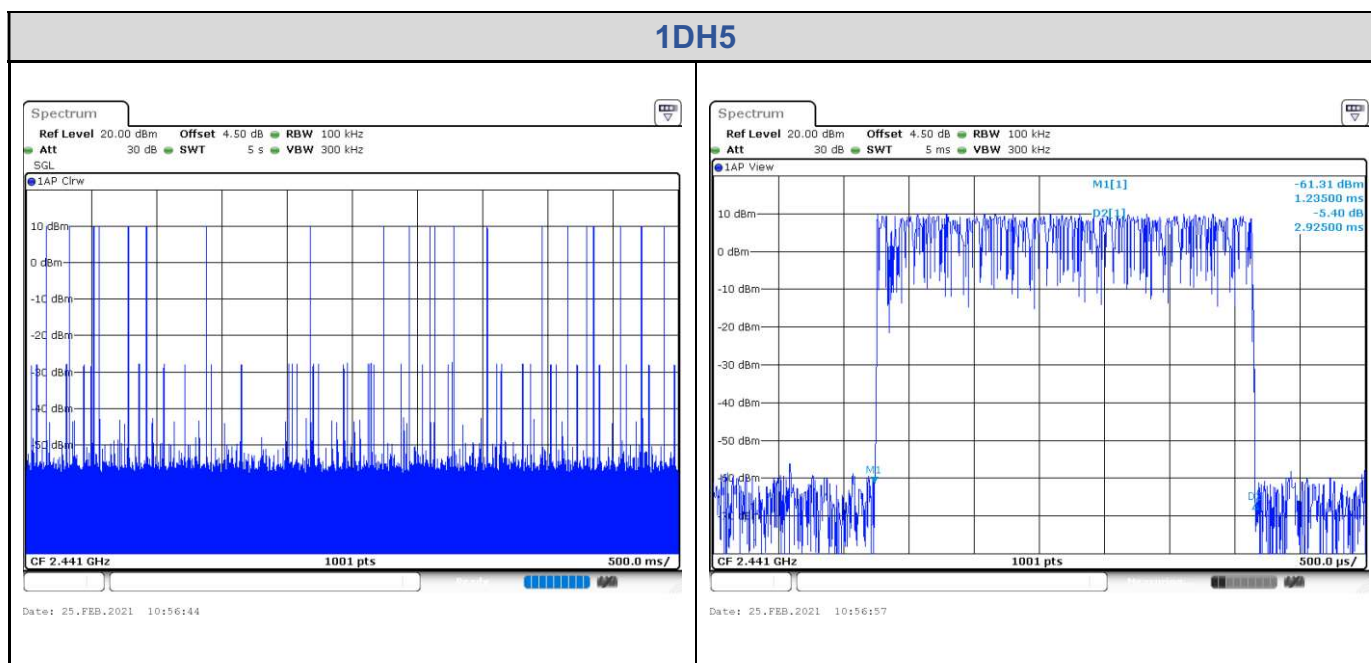
Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
2400 to 2483.5 MHz	79	≥15	Pass



Test Result of Dwell Time

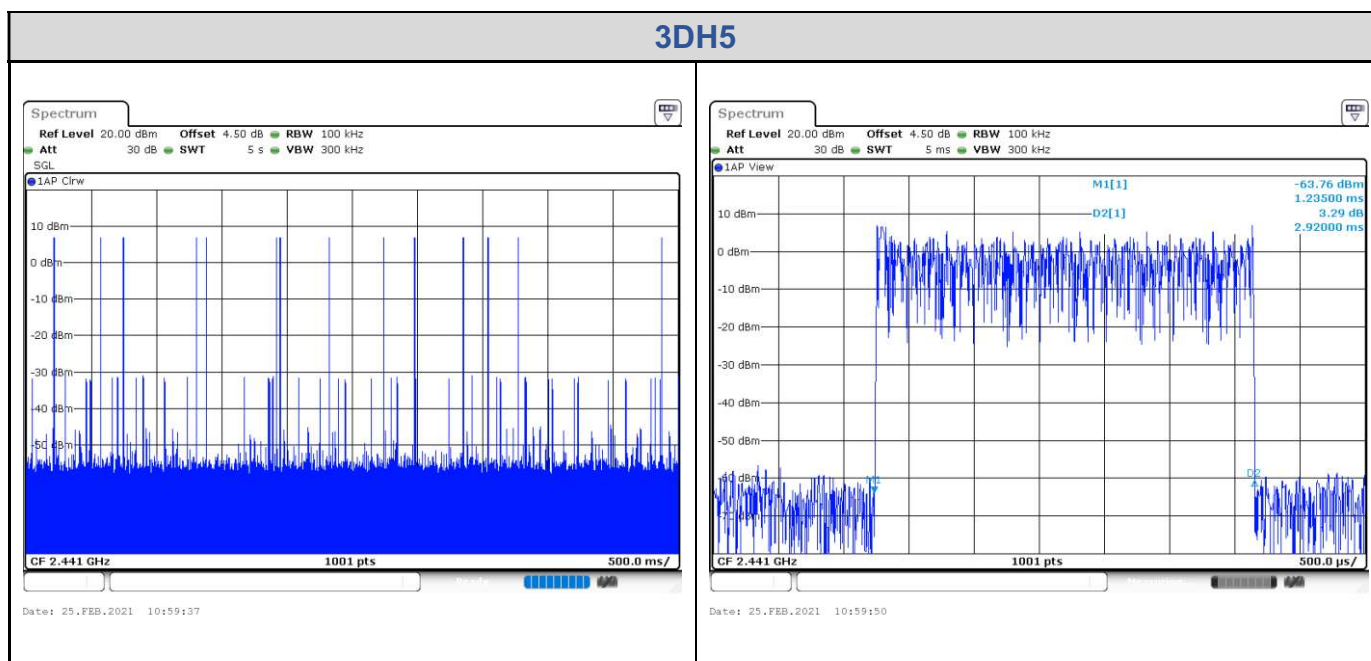
GFSK

Data Mode	Number of transfer in a 31.6 (79Hopping*0.4s)	Package transfer time (msec)	Dwell time (s)	Limit (s)	Result
1DH5	21 (times / 5 sec) * 6.32 = 132.72 times	2.925	0.388206	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	14 (times / 5 sec) * 6.32 = 88.48 times	2.92	0.2583616	0.4	Pass



Appendix B: Test Results of Radiated Emissions & Mains Conducted

Emission Test_Left Ear

Band Edges, 2.31GHz ~ 2.9GHz

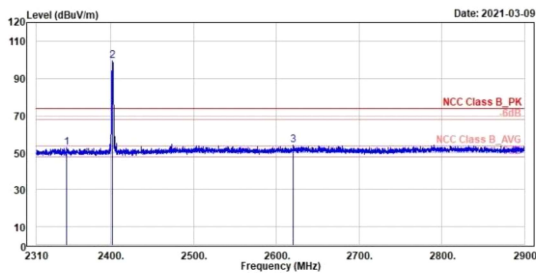
GFSK

Low Channel (Horizontal) Peak

Low Channel (Vertical) Peak



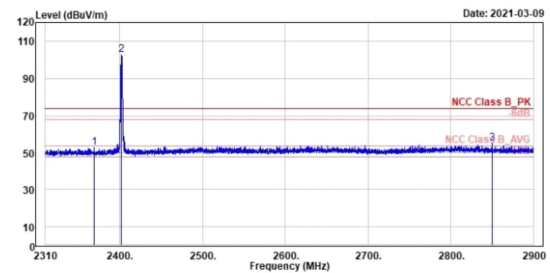
TÜV Rheinland Taiwan Ltd.
 No. 438-18, Sec. 2, Feniliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
 Tel: +886-2172-1000 Fax: +886-2172-1322



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	2346.51	52.98	15.78	37.20	74.00	-21.02	301	124	Peak	Horizontal	
2 *	2402.00	99.54	62.25	37.29	74.00	25.54	301	124	Peak	Horizontal	
3	2620.73	54.22	16.33	37.89	74.00	-19.78	301	124	Peak	Horizontal	



TÜV Rheinland Taiwan Ltd.
 No. 438-18, Sec. 2, Feniliao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
 Tel: +886-2172-1000 Fax: +886-2172-1322



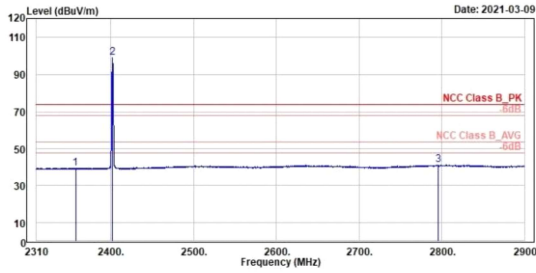
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2369.01	52.88	15.64	37.24	74.00	-21.12	295	267	Peak	Vertical	
2 *	2402.00	102.83	65.54	37.29	74.00	28.83	295	267	Peak	Vertical	
3	2850.18	55.33	17.18	38.15	74.00	-18.67	295	267	Peak	Vertical	

GFSK

Low Channel (Horizontal) Average



TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec. 2, Fenhiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322

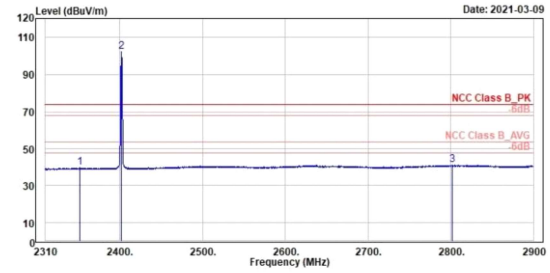


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2357.23	39.92	2.69	37.23	54.00	-14.08	301	124	Average	Horizontal	
2 *	2402.00	99.13	61.84	37.29	54.00	45.13	301	124	Average	Horizontal	
3	2795.52	41.49	3.40	38.09	54.00	-12.51	301	124	Average	Horizontal	

Low Channel (Vertical) Average



TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec. 2, Fenhiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



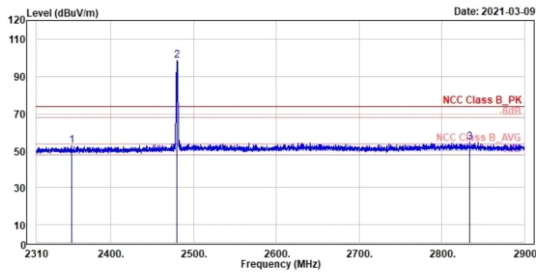
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2351.93	39.96	2.74	37.22	54.00	-14.04	295	267	Average	Vertical	
2 *	2402.00	102.41	65.12	37.29	54.00	48.41	295	267	Average	Vertical	
3	2801.88	41.46	3.35	38.11	54.00	-12.54	295	267	Average	Vertical	

GFSK

High Channel (Horizontal) Peak



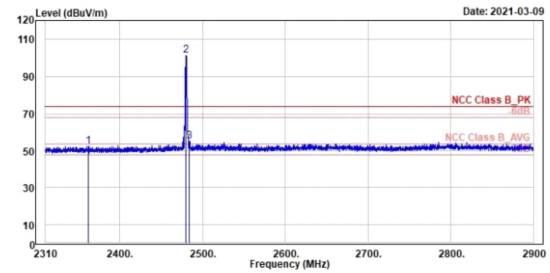
TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec. 2, Fenhua Rd., Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



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	2352.64	52.78	15.48	37.22	74.00	-21.30	186	291	Peak	Horizontal	
2 *	2480.00	98.68	68.94	37.66	74.00	24.68	186	291	Peak	Horizontal	
3	2834.04	54.62	16.48	38.14	74.00	-19.38	186	291	Peak	Horizontal	



TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec. 2, Fenhua Rd., Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



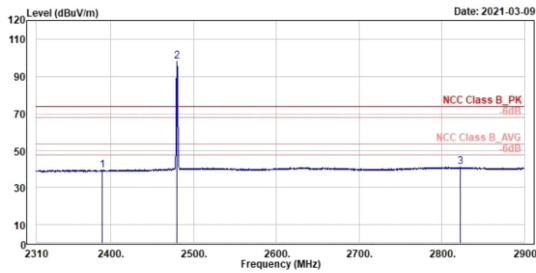
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2361.71	52.54	15.38	37.24	74.00	-21.46	386	264	Peak	Vertical	
2 *	2480.00	101.27	63.61	37.66	74.00	27.27	386	264	Peak	Vertical	
3	2483.86	55.38	17.69	37.69	74.00	-18.62	386	264	Peak	Vertical	

GFSK

High Channel (Horizontal) Average



TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec. 2, Fenhiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322

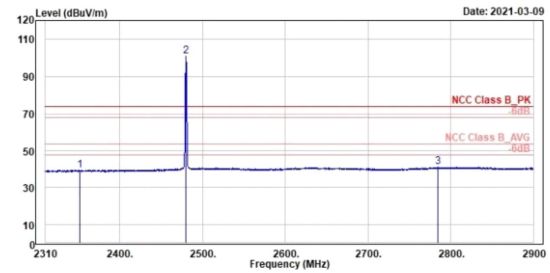


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2389.63	39.83	2.56	37.27	54.00	-14.17	186	291	Average	Horizontal	
2 *	2488.00	98.14	68.48	37.66	54.00	44.14	186	291	Average	Horizontal	
3	2822.85	41.36	3.23	38.13	54.00	-12.64	186	291	Average	Horizontal	

High Channel (Vertical) Average



TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec. 2, Fenhiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



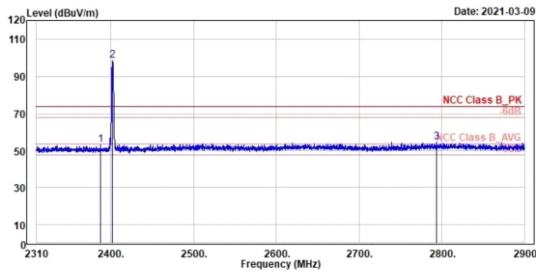
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2351.34	39.82	2.60	37.22	54.00	-14.18	386	264	Average	Vertical	
2 *	2488.00	100.86	63.28	37.66	54.00	46.86	386	264	Average	Vertical	
3	2784.45	41.52	3.46	38.06	54.00	-12.48	386	264	Average	Vertical	

8DPSK

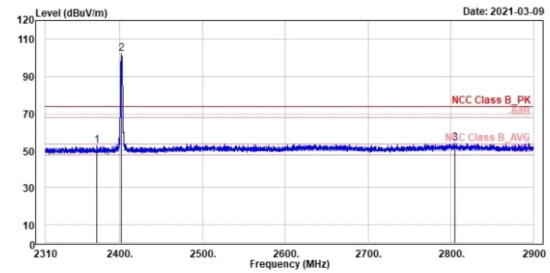
Low Channel (Horizontal) Peak



TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec. 2, Fenhua Rd., Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec. 2, Fenhua Rd., Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322

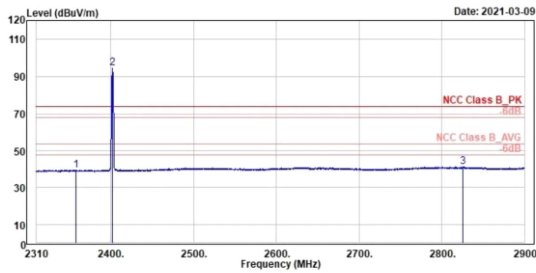


8DPSK

Low Channel (Horizontal) Average



TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec. 2, Fenhiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322

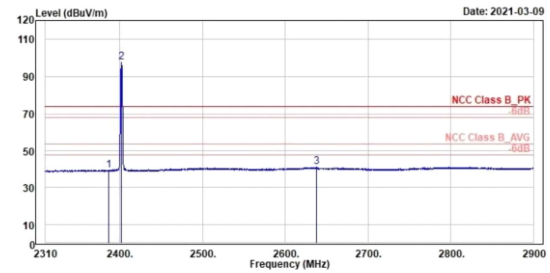


Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2357.59	39.79	2.56	37.23	54.00	-14.21	300	123	Average	Horizontal	
2 *	2402.00	94.44	57.15	37.29	54.00	40.44	300	123	Average	Horizontal	
3	2825.44	41.49	3.36	38.13	54.00	-12.51	300	123	Average	Horizontal	

Low Channel (Vertical) Average



TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec. 2, Fenhiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



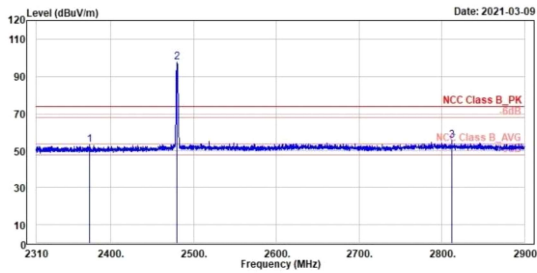
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2306.56	39.84	2.57	37.27	54.00	-14.16	297	266	Average	Vertical	
2 *	2402.00	97.87	60.58	37.29	54.00	43.87	297	266	Average	Vertical	
3	2637.69	41.35	3.49	37.86	54.00	-12.65	297	266	Average	Vertical	

8DPSK

High Channel (Horizontal) Peak



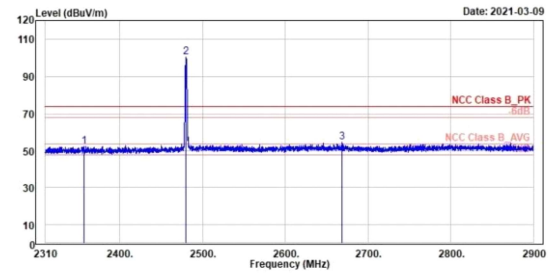
TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec. 2, Fenhua Rd., Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



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	2373.72	53.21	15.96	37.25	74.00	-20.79	186	292	Peak	Horizontal	
2 *	2480.00	97.58	59.92	37.66	74.00	23.58	186	292	Peak	Horizontal	
3	2812.13	55.53	17.41	38.12	74.00	-18.47	186	292	Peak	Horizontal	



TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec. 2, Fenhua Rd., Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



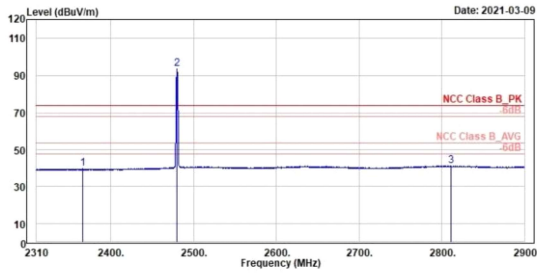
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2357.00	52.64	15.41	37.23	74.00	-21.36	307	264	Peak	Vertical	
2 *	2480.00	100.35	62.69	37.66	74.00	26.35	307	264	Peak	Vertical	
3	2668.43	54.64	16.72	37.92	74.00	-19.36	307	264	Peak	Vertical	

8DPSK

High Channel (Horizontal) Average



TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec. 2, Fenhiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322

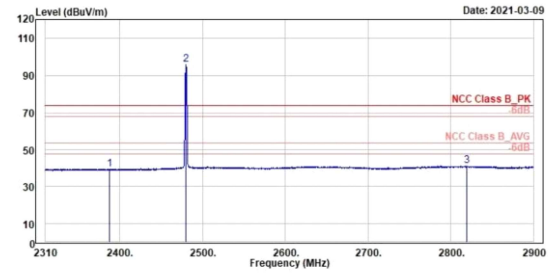


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2365.71	39.98	2.74	37.24	54.00	-14.02	186	292	Average	Horizontal		
2 *	2468.00	93.31	55.65	37.66	54.00	39.31	186	292	Average	Horizontal		
3	2811.19	41.54	3.43	38.11	54.00	-12.46	186	292	Average	Horizontal		

High Channel (Vertical) Average



TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec. 2, Fenhiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	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	2367.03	39.83	2.56	37.27	54.00	-14.17	387	264	Average	Vertical		
2 *	2468.00	96.01	58.35	37.66	54.00	42.01	387	264	Average	Vertical		
3	2819.20	41.38	3.26	38.12	54.00	-12.62	387	264	Average	Vertical		

Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

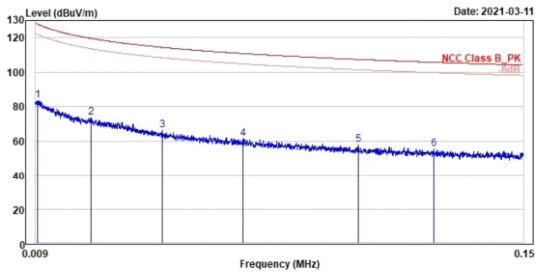
GFSK

Low Channel(Open) 9kHz~150kHz

Low Channel(Open) 150kHz~30MHz



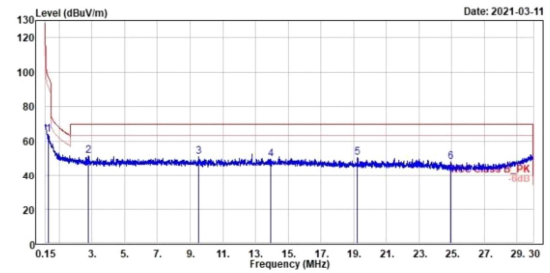
TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec. 2, Fenhua Rd., Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



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	0.01	83.74	4.58	79.16	127.85	-44.11	100	172	QP	Open	
2	0.03	73.58	1.95	71.63	119.61	-46.03	100	156	QP	Open	
3	0.05	66.03	-0.09	66.12	114.39	-48.36	100	358	QP	Open	
4	0.07	61.35	-1.12	62.47	110.81	-49.46	100	337	QP	Open	
5	0.10	57.79	-1.33	59.12	107.39	-49.60	100	66	QP	Open	
6	0.12	55.48	-2.38	57.86	105.72	-50.24	100	7	QP	Open	

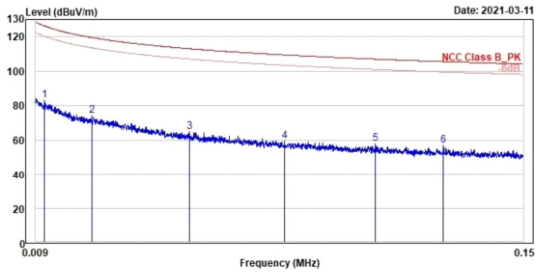


TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec. 2, Fenhua Rd., Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



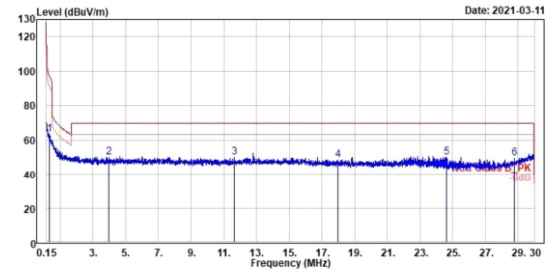
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.35	63.72	14.36	49.36	96.65	-32.93	100	30	QP	Open	
2	2.79	51.34	13.01	38.33	69.50	-18.16	100	98	QP	Open	
3	9.50	50.97	13.26	37.71	69.50	-18.53	100	168	QP	Open	
4	13.95	49.25	11.62	37.63	69.50	-20.25	100	126	QP	Open	
5	19.25	50.30	13.88	36.42	69.50	-19.20	100	180	QP	Open	
6	24.93	47.78	13.70	34.08	69.50	-21.72	100	36	QP	Open	

GFSK
Low Channel(Close) 9kHz~150kHz

 TÜV Rheinland Taiwan Ltd.
 No. 438-18, Sec. 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
 Tel: +886-2172-1000 Fax: +886-2172-1322


	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	0.01	82.86	5.06	77.80	126.26	-43.40	100	88	QP	Close		
2	0.03	73.91	2.33	71.58	119.52	-45.61	100	182	QP	Close		
3	0.05	64.80	0.23	64.57	113.04	-48.24	100	15	QP	Close		
4	0.08	59.51	-1.67	61.18	109.43	-49.92	100	339	QP	Close		
5	0.11	57.79	-1.05	58.84	106.99	-49.20	100	93	QP	Close		
6	0.13	56.78	-0.92	57.70	105.53	-48.75	100	187	QP	Close		

Low Channel(Close) 150kHz~30MHz

 TÜV Rheinland Taiwan Ltd.
 No. 438-18, Sec. 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
 Tel: +886-2172-1000 Fax: +886-2172-1322


	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	0.35	63.34	13.98	49.36	96.65	-33.31	100	26	QP	Close		
2	3.98	49.91	11.56	38.35	69.50	-19.59	100	30	QP	Close		
3	11.67	49.72	12.43	37.29	69.50	-19.78	100	272	QP	Close		
4	17.98	48.21	11.33	36.88	69.50	-21.29	100	54	QP	Close		
5	24.62	50.02	15.67	34.35	69.50	-19.48	100	340	QP	Close		
6	28.77	49.19	12.43	36.76	69.50	-20.31	100	175	QP	Close		

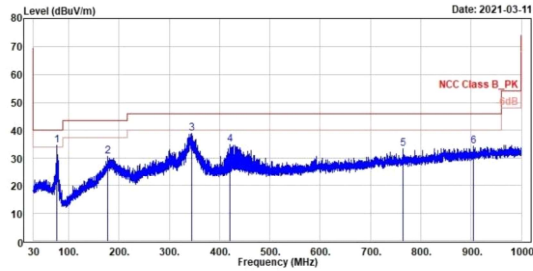
Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

GFSK

Low Channel (Horizontal)



TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec. 2, Fenhiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322

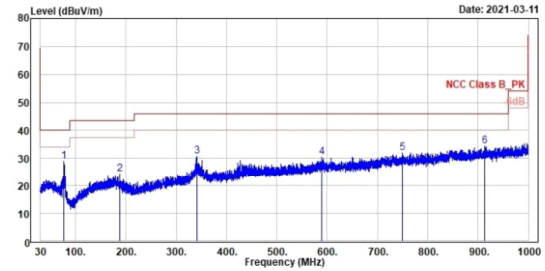


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	76.95	34.69	44.55	-9.86	40.00	-5.31	200	145	QP	horizontal		
2	177.93	30.77	37.83	-7.06	43.50	-12.73	100	170	QP	horizontal		
3	343.99	38.85	42.70	-3.85	46.00	-7.15	100	200	QP	horizontal		
4	419.94	34.97	37.61	-2.64	46.00	-11.03	400	160	QP	horizontal		
5	764.00	33.42	30.64	2.78	46.00	-12.58	100	213	QP	horizontal		
6	904.94	34.33	29.43	4.90	46.00	-11.67	300	36	QP	horizontal		

Low Channel (Vertical)



TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec. 2, Fenhiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	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	75.98	28.78	38.46	-9.68	40.00	-11.22	200	190	QP	vertical		
2	187.92	24.45	32.53	-8.08	43.50	-19.05	100	292	QP	vertical		
3	341.95	30.71	34.55	-3.84	46.00	-15.29	300	173	QP	vertical		
4	589.59	30.35	30.35	0.00	46.00	-15.65	100	160	QP	vertical		
5	748.96	31.98	29.40	2.58	46.00	-14.02	400	70	QP	vertical		
6	912.51	34.40	29.48	4.92	46.00	-11.60	100	79	QP	vertical		

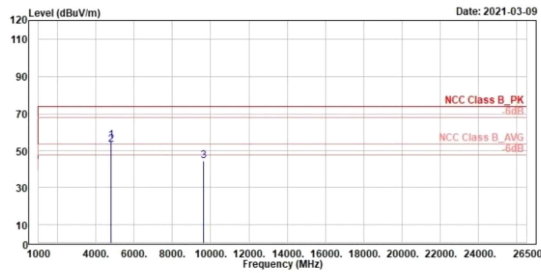
Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

GFSK

Low Channel (Horizontal)



TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec. 2, Fenhua Rd., Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322

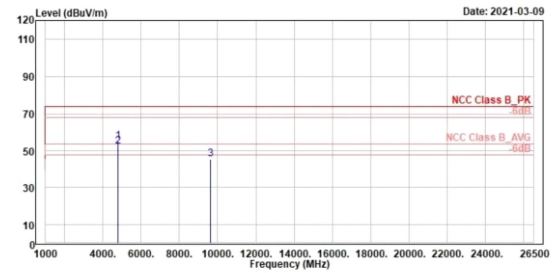


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4804.00	55.84	65.32	-9.48	74.00	-18.16	187	291	Peak	Horizontal		
2	4804.00	53.22	62.70	-9.48	54.00	-0.78	187	291	Average	Horizontal		
3	9608.00	44.62	48.74	-4.12	74.00	-29.38	400	352	Peak	Horizontal		

Low Channel (Vertical)



TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec. 2, Fenhua Rd., Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



	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	4804.00	55.21	64.69	-9.48	74.00	-18.79	297	234	Peak	Vertical		
2	4804.00	52.27	61.75	-9.48	54.00	-1.73	297	234	Average	Vertical		
3	9608.00	45.41	49.53	-4.12	74.00	-28.59	100	104	Peak	Vertical		