

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B17_5MHz_ERP

Band: 17 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	706.5	1	0	24.57	-3.02	19.40	<=34.77	Pass
			13	24.45	-3.02	19.28	<=34.77	Pass
			24	24.60	-3.02	19.43	<=34.77	Pass
		12	0	23.65	-3.02	18.48	<=34.77	Pass
			6	22.20	-3.02	17.03	<=34.77	Pass
			13	23.24	-3.02	18.07	<=34.77	Pass
		25	0	23.65	-3.02	18.48	<=34.77	Pass
	710	1	0	24.41	-3.02	19.24	<=34.77	Pass
			13	24.42	-3.02	19.25	<=34.77	Pass
			24	23.71	-3.02	18.54	<=34.77	Pass
		12	0	23.76	-3.02	18.59	<=34.77	Pass
			6	23.39	-3.02	18.22	<=34.77	Pass
			13	23.59	-3.02	18.42	<=34.77	Pass
		25	0	23.38	-3.02	18.21	<=34.77	Pass
	713.5	1	0	24.71	-3.02	19.54	<=34.77	Pass
			13	24.13	-3.02	18.96	<=34.77	Pass
			24	24.68	-3.02	19.51	<=34.77	Pass
		12	0	23.74	-3.02	18.57	<=34.77	Pass
			6	22.44	-3.02	17.27	<=34.77	Pass
			13	23.15	-3.02	17.98	<=34.77	Pass
		25	0	23.54	-3.02	18.37	<=34.77	Pass
16QAM	706.5	1	0	23.45	-3.02	18.28	<=34.77	Pass
			13	23.52	-3.02	18.35	<=34.77	Pass
			24	23.62	-3.02	18.45	<=34.77	Pass
		12	0	22.48	-3.02	17.31	<=34.77	Pass
			6	22.67	-3.02	17.50	<=34.77	Pass
			13	22.39	-3.02	17.22	<=34.77	Pass
		25	0	22.63	-3.02	17.46	<=34.77	Pass
	710	1	0	23.15	-3.02	17.98	<=34.77	Pass
			13	23.68	-3.02	18.51	<=34.77	Pass
			24	23.61	-3.02	18.44	<=34.77	Pass
		12	0	22.67	-3.02	17.50	<=34.77	Pass
			6	22.14	-3.02	16.97	<=34.77	Pass
			13	22.36	-3.02	17.19	<=34.77	Pass
		25	0	22.63	-3.02	17.46	<=34.77	Pass
	713.5	1	0	23.72	-3.02	18.55	<=34.77	Pass
			13	23.85	-3.02	18.68	<=34.77	Pass
			24	23.74	-3.02	18.57	<=34.77	Pass
		12	0	22.70	-3.02	17.53	<=34.77	Pass
			6	22.74	-3.02	17.57	<=34.77	Pass
			13	22.75	-3.02	17.58	<=34.77	Pass
		25	0	22.13	-3.02	16.96	<=34.77	Pass
64QAM	706.5	1	0	22.35	-3.02	17.18	<=34.77	Pass
			13	22.46	-3.02	17.29	<=34.77	Pass
			24	22.43	-3.02	17.26	<=34.77	Pass
		12	0	21.72	-3.02	16.55	<=34.77	Pass
			6	21.50	-3.02	16.33	<=34.77	Pass
			13	21.57	-3.02	16.40	<=34.77	Pass
		25	0	21.67	-3.02	16.50	<=34.77	Pass

	710	1	0	22.30	-3.02	17.13	<=34.77	Pass	
			13	21.67	-3.02	16.50	<=34.77	Pass	
			24	22.17	-3.02	17.00	<=34.77	Pass	
		12	0	21.70	-3.02	16.53	<=34.77	Pass	
			6	21.84	-3.02	16.67	<=34.77	Pass	
			13	21.58	-3.02	16.41	<=34.77	Pass	
		25	0	21.54	-3.02	16.37	<=34.77	Pass	
		713.5	1	0	22.33	-3.02	17.16	<=34.77	Pass
				13	22.35	-3.02	17.18	<=34.77	Pass
	24			22.24	-3.02	17.07	<=34.77	Pass	
	12		0	21.68	-3.02	16.51	<=34.77	Pass	
			6	21.75	-3.02	16.58	<=34.77	Pass	
			13	21.64	-3.02	16.47	<=34.77	Pass	
	25	0	21.76	-3.02	16.59	<=34.77	Pass		
256QAM	706.5	1	0	19.61	-3.02	14.44	<=34.77	Pass	
			13	19.25	-3.02	14.08	<=34.77	Pass	
			24	19.64	-3.02	14.47	<=34.77	Pass	
		12	0	19.58	-3.02	14.41	<=34.77	Pass	
			6	19.67	-3.02	14.50	<=34.77	Pass	
			13	19.58	-3.02	14.41	<=34.77	Pass	
		25	0	19.69	-3.02	14.52	<=34.77	Pass	
	710	1	0	19.55	-3.02	14.38	<=34.77	Pass	
			13	18.17	-3.02	13.00	<=34.77	Pass	
			24	19.73	-3.02	14.56	<=34.77	Pass	
		12	0	19.71	-3.02	14.54	<=34.77	Pass	
			6	19.33	-3.02	14.16	<=34.77	Pass	
			13	19.53	-3.02	14.36	<=34.77	Pass	
	25	0	19.69	-3.02	14.52	<=34.77	Pass		
	713.5	1	0	19.14	-3.02	13.97	<=34.77	Pass	
			13	19.72	-3.02	14.55	<=34.77	Pass	
			24	18.18	-3.02	13.01	<=34.77	Pass	
		12	0	19.78	-3.02	14.61	<=34.77	Pass	
			6	19.55	-3.02	14.38	<=34.77	Pass	
			13	19.55	-3.02	14.38	<=34.77	Pass	
		25	0	19.32	-3.02	14.15	<=34.77	Pass	
Note1: ERP=Conducted Power+Antenna Gain-2.15									

1.1.2 B17_10MHz_ERP

Band: 17 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	709	1	0	24.61	-3.02	19.44	<=34.77	Pass
			25	24.23	-3.02	19.06	<=34.77	Pass
			49	24.72	-3.02	19.55	<=34.77	Pass
		25	0	23.59	-3.02	18.42	<=34.77	Pass
			13	23.64	-3.02	18.47	<=34.77	Pass
			25	23.59	-3.02	18.42	<=34.77	Pass
		50	0	23.65	-3.02	18.48	<=34.77	Pass
	710	1	0	24.78	-3.02	19.61	<=34.77	Pass
			25	24.43	-3.02	19.26	<=34.77	Pass
			49	24.13	-3.02	18.96	<=34.77	Pass
		25	0	23.26	-3.02	18.09	<=34.77	Pass
			13	23.63	-3.02	18.46	<=34.77	Pass
			25	23.66	-3.02	18.49	<=34.77	Pass
		50	0	23.60	-3.02	18.43	<=34.77	Pass
	711	1	0	24.43	-3.02	19.26	<=34.77	Pass

		25	25	24.45	-3.02	19.28	<=34.77	Pass
			49	24.62	-3.02	19.45	<=34.77	Pass
			0	23.45	-3.02	18.28	<=34.77	Pass
			13	23.31	-3.02	18.14	<=34.77	Pass
			25	23.51	-3.02	18.34	<=34.77	Pass
		50	0	23.54	-3.02	18.37	<=34.77	Pass
16QAM	709	1	0	23.43	-3.02	18.26	<=34.77	Pass
			25	23.51	-3.02	18.34	<=34.77	Pass
			49	23.93	-3.02	18.76	<=34.77	Pass
		25	0	21.87	-3.02	16.70	<=34.77	Pass
			13	22.42	-3.02	17.25	<=34.77	Pass
			25	22.66	-3.02	17.49	<=34.77	Pass
		50	0	22.67	-3.02	17.50	<=34.77	Pass
	710	1	0	23.81	-3.02	18.64	<=34.77	Pass
			25	23.80	-3.02	18.63	<=34.77	Pass
			49	23.72	-3.02	18.55	<=34.77	Pass
		25	0	22.68	-3.02	17.51	<=34.77	Pass
			13	22.47	-3.02	17.30	<=34.77	Pass
			25	22.56	-3.02	17.39	<=34.77	Pass
		50	0	22.33	-3.02	17.16	<=34.77	Pass
	711	1	0	23.80	-3.02	18.63	<=34.77	Pass
			25	23.85	-3.02	18.68	<=34.77	Pass
			49	23.88	-3.02	18.71	<=34.77	Pass
		25	0	22.68	-3.02	17.51	<=34.77	Pass
			13	22.39	-3.02	17.22	<=34.77	Pass
			25	22.67	-3.02	17.50	<=34.77	Pass
		50	0	22.69	-3.02	17.52	<=34.77	Pass
64QAM	709	1	0	23.78	-3.02	18.61	<=34.77	Pass
			25	23.58	-3.02	18.41	<=34.77	Pass
			49	23.67	-3.02	18.50	<=34.77	Pass
		25	0	22.30	-3.02	17.13	<=34.77	Pass
			13	22.26	-3.02	17.09	<=34.77	Pass
			25	22.54	-3.02	17.37	<=34.77	Pass
		50	0	22.09	-3.02	16.92	<=34.77	Pass
	710	1	0	22.28	-3.02	17.11	<=34.77	Pass
			25	22.19	-3.02	17.02	<=34.77	Pass
			49	21.27	-3.02	16.10	<=34.77	Pass
		25	0	21.68	-3.02	16.51	<=34.77	Pass
			13	21.15	-3.02	15.98	<=34.77	Pass
			25	20.78	-3.02	15.61	<=34.77	Pass
		50	0	21.22	-3.02	16.05	<=34.77	Pass
	711	1	0	22.30	-3.02	17.13	<=34.77	Pass
			25	22.37	-3.02	17.20	<=34.77	Pass
			49	22.26	-3.02	17.09	<=34.77	Pass
		25	0	21.69	-3.02	16.52	<=34.77	Pass
			13	21.45	-3.02	16.28	<=34.77	Pass
			25	21.72	-3.02	16.55	<=34.77	Pass
		50	0	20.83	-3.02	15.66	<=34.77	Pass
256QAM	709	1	0	19.44	-3.02	14.27	<=34.77	Pass
			25	19.84	-3.02	14.67	<=34.77	Pass
			49	19.69	-3.02	14.52	<=34.77	Pass
		25	0	19.57	-3.02	14.40	<=34.77	Pass
			13	19.58	-3.02	14.41	<=34.77	Pass
			25	19.61	-3.02	14.44	<=34.77	Pass
		50	0	19.60	-3.02	14.43	<=34.77	Pass
	710	1	0	19.49	-3.02	14.32	<=34.77	Pass
			25	19.62	-3.02	14.45	<=34.77	Pass
			49	19.83	-3.02	14.66	<=34.77	Pass
		25	0	19.66	-3.02	14.49	<=34.77	Pass

			13	19.26	-3.02	14.09	<=34.77	Pass
			25	19.38	-3.02	14.21	<=34.77	Pass
		50	0	19.58	-3.02	14.41	<=34.77	Pass
	711	1	0	19.75	-3.02	14.58	<=34.77	Pass
			25	19.66	-3.02	14.49	<=34.77	Pass
			49	19.83	-3.02	14.66	<=34.77	Pass
		25	0	19.74	-3.02	14.57	<=34.77	Pass
			13	19.38	-3.02	14.21	<=34.77	Pass
			25	19.66	-3.02	14.49	<=34.77	Pass
		50	0	19.74	-3.02	14.57	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 Test Result

2.1.1 B17_10MHz

Band: 17 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	710	50	0	20	3.27	-2.500	-0.0035	-2.5 to 2.5	Pass
					3.85	0.600	0.0008	-2.5 to 2.5	Pass
					4.43	-1.300	-0.0018	-2.5 to 2.5	Pass
				-30	3.85	-2.000	-0.0028	-2.5 to 2.5	Pass
				-20	3.85	0.800	0.0011	-2.5 to 2.5	Pass
				-10	3.85	-1.400	-0.0020	-2.5 to 2.5	Pass
				0	3.85	-3.400	-0.0048	-2.5 to 2.5	Pass
				10	3.85	-0.800	-0.0011	-2.5 to 2.5	Pass
				30	3.85	-1.200	-0.0017	-2.5 to 2.5	Pass
				40	3.85	-1.200	-0.0017	-2.5 to 2.5	Pass
				50	3.85	-1.500	-0.0021	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band17_OBW

Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	710	25	0	4.536	/	Pass
	16QAM	710	25	0	4.542	/	Pass
10	QPSK	710	50	0	9.053	/	Pass
	16QAM	710	50	0	9.024	/	Pass

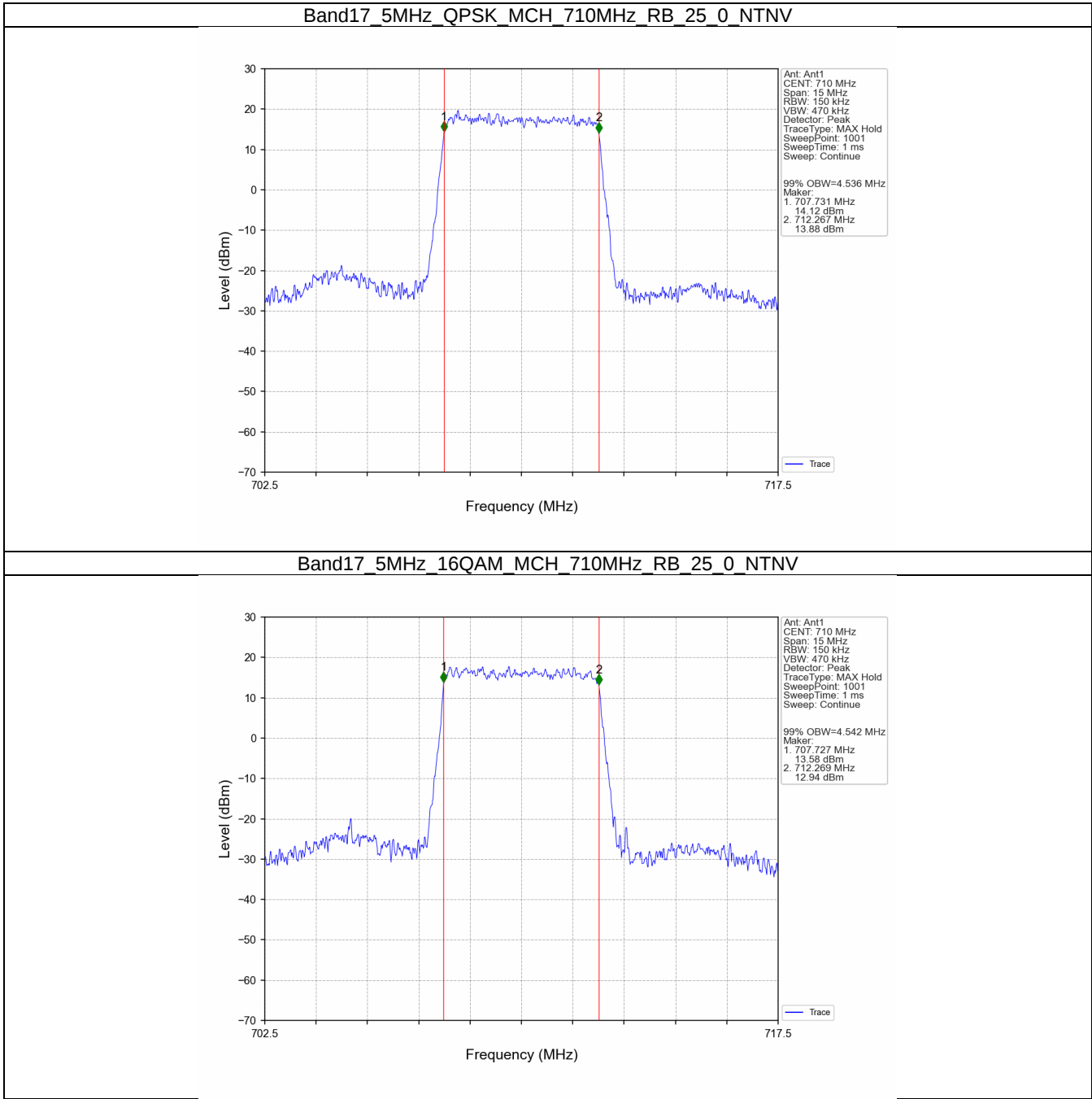
3.1.2 Band17_XDB

Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	

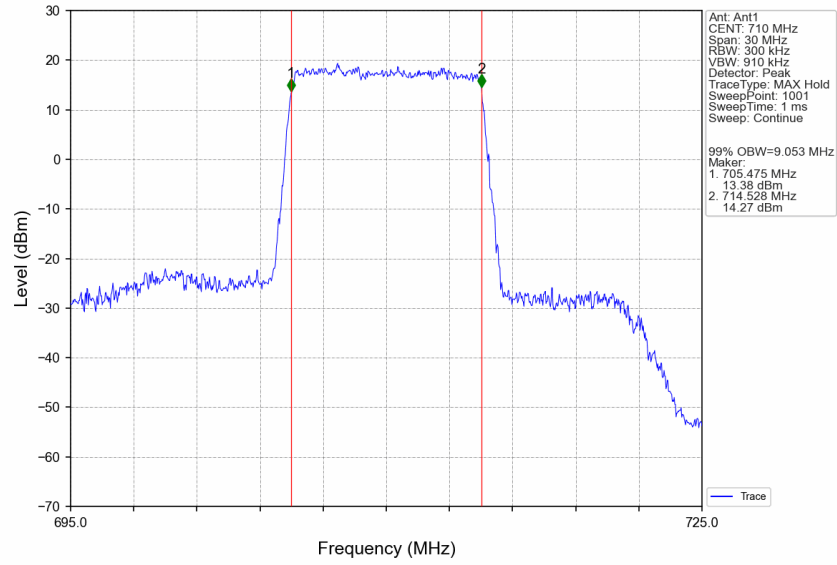
5	QPSK	710	25	0	5.029	/	Pass
	16QAM	710	25	0	5.042	/	Pass
10	QPSK	710	50	0	9.980	/	Pass
	16QAM	710	50	0	9.939	/	Pass

3.2 Test Graph

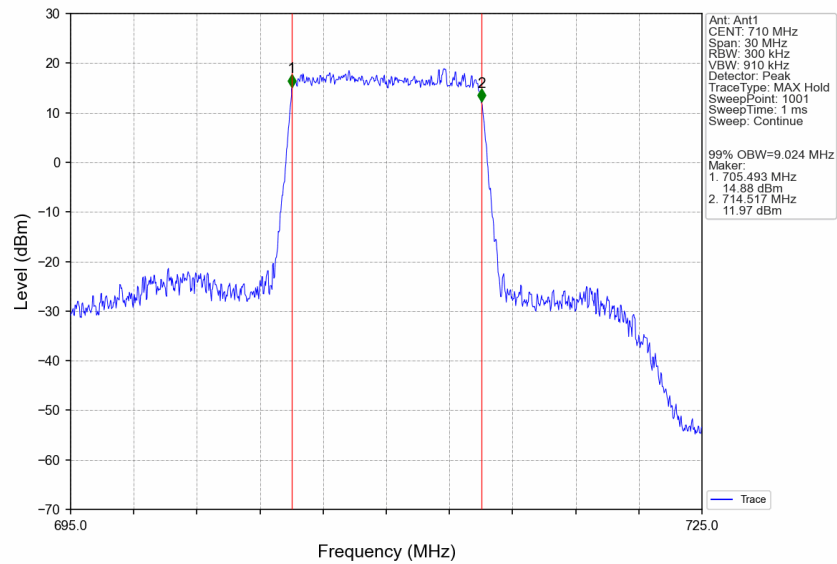
3.2.1 Band17_OBW



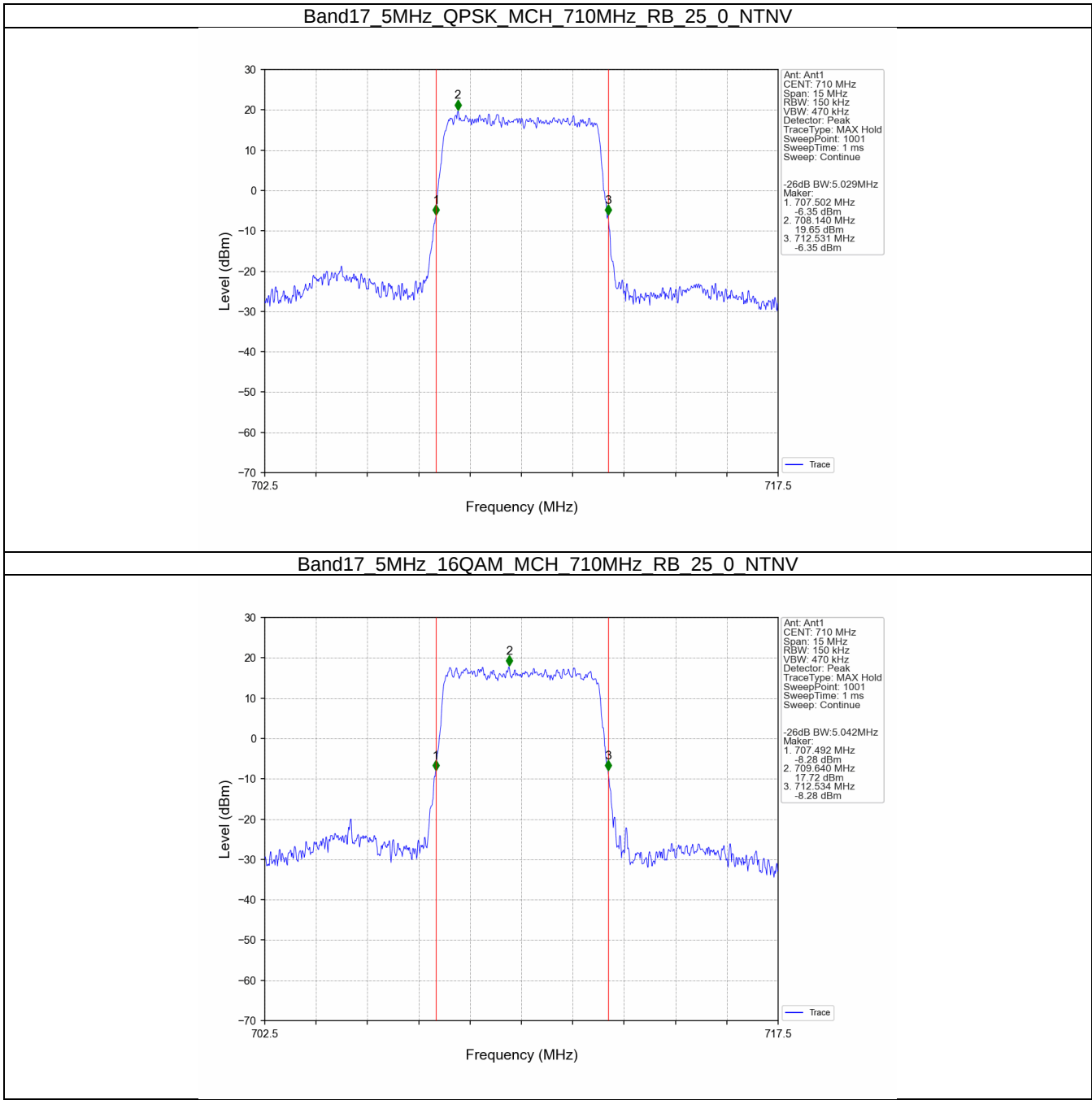
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



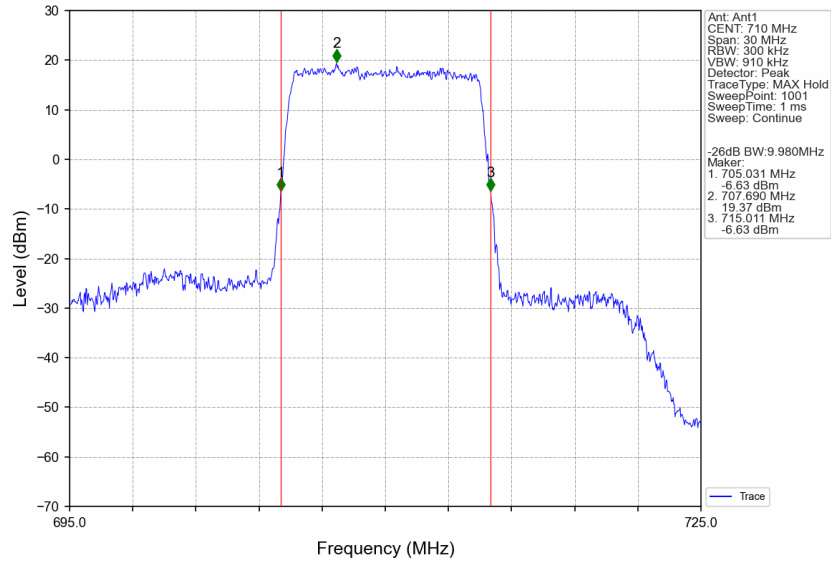
Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



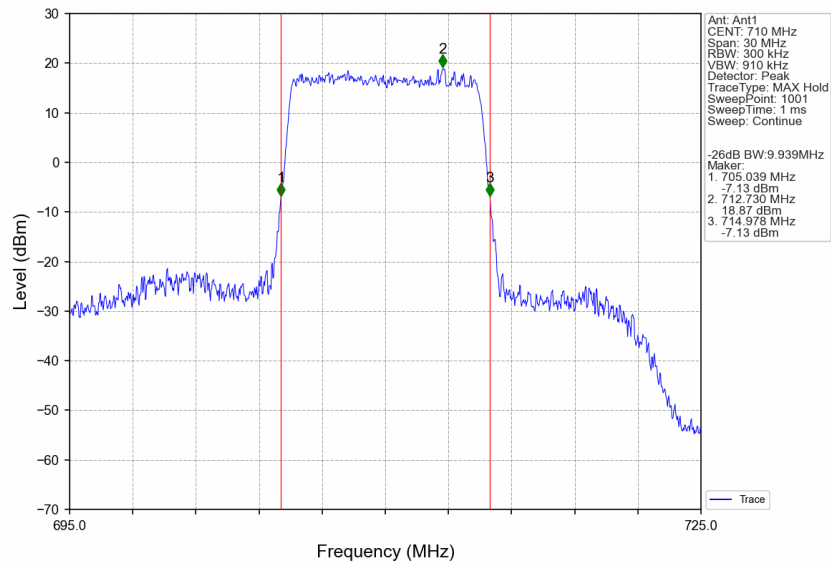
3.2.2 Band17_XDB



Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



4. Peak-Average Ratio

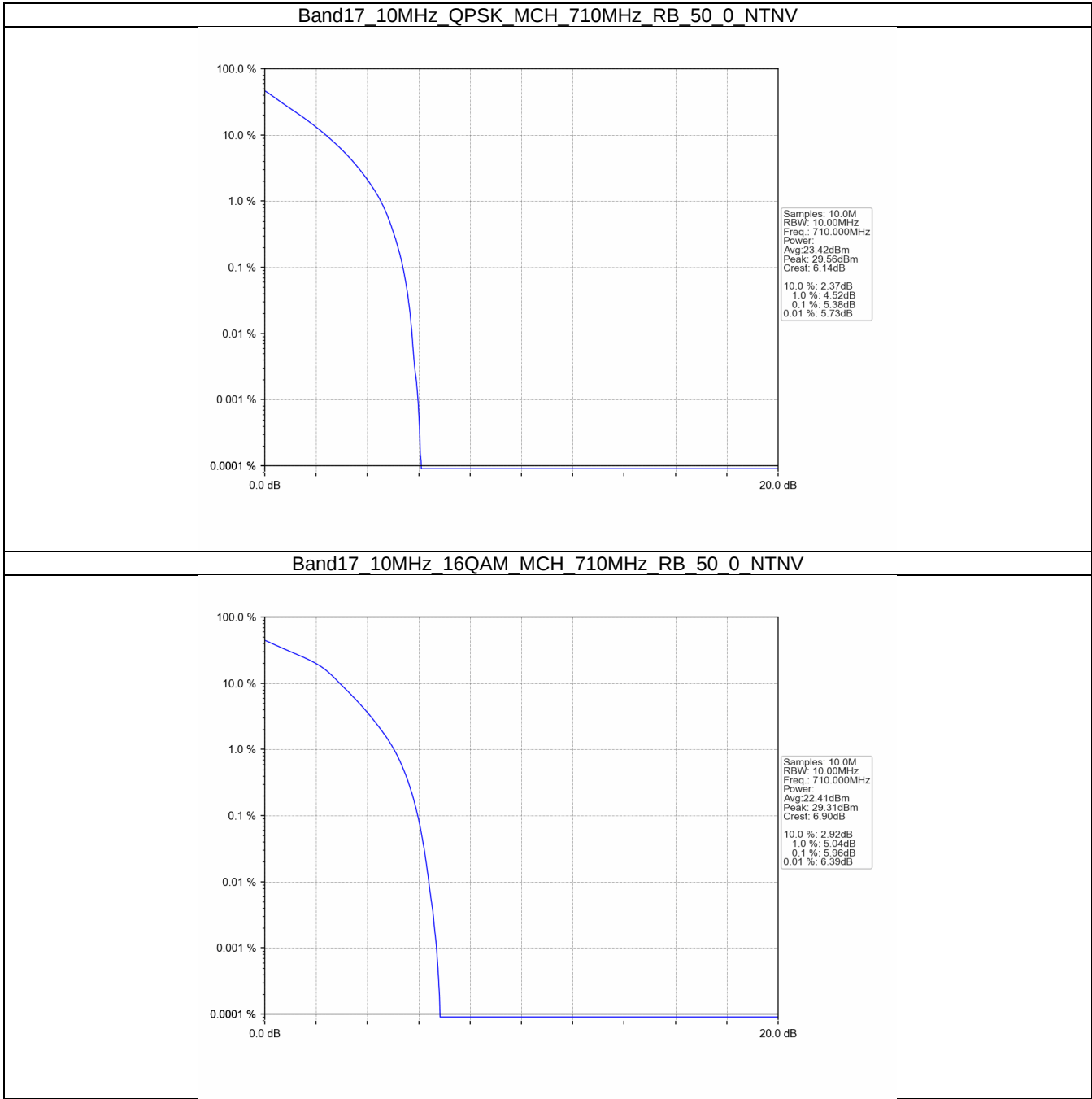
4.1 Test Result

4.1.1 B17_10MHz

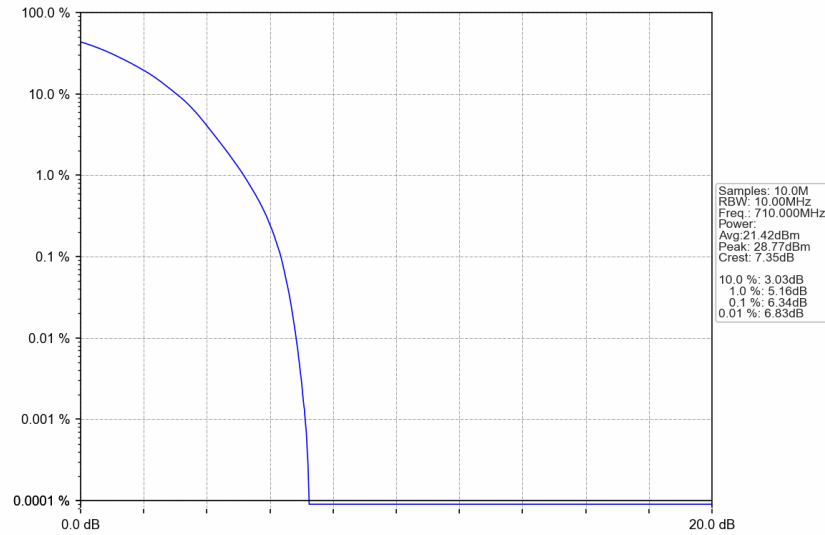
Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	710	50	0	5.38	<=13	Pass
16QAM	710	50	0	5.96	<=13	Pass
64QAM	710	50	0	6.34	<=13	Pass
256QAM	710	50	0	6.58	<=13	Pass

4.2 Test Graph

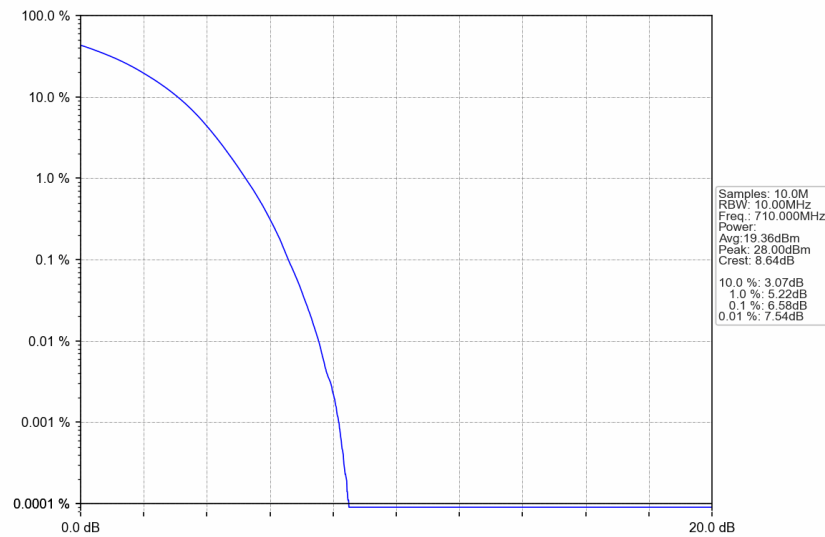
4.2.1 B17_10MHz



Band17_10MHz_64QAM_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_256QAM_MCH_710MHz_RB_50_0_NTNV



5. Spurious Emission

5.1 Test Result

5.1.1 B17_5MHz

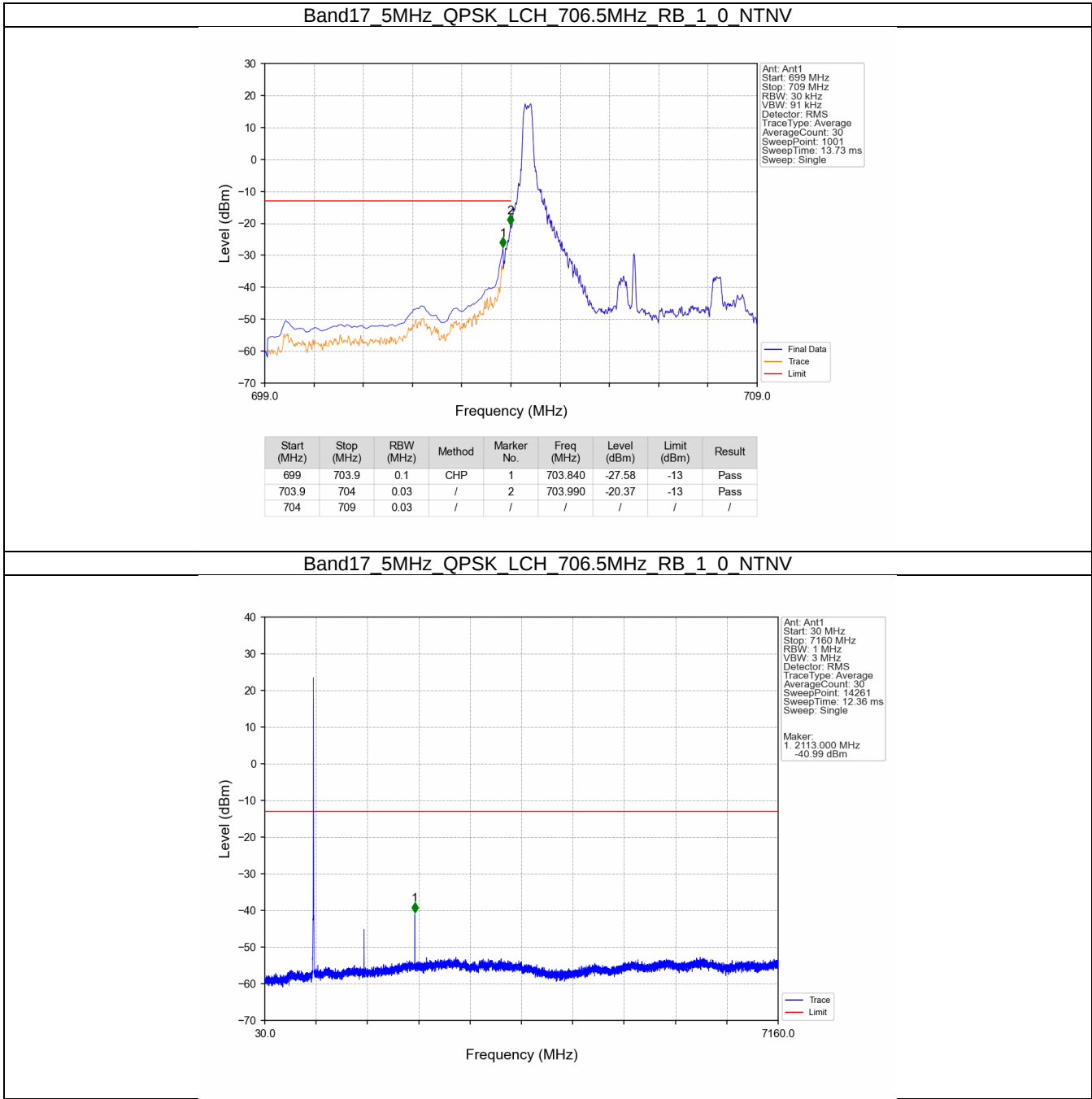
Band: 17 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

5.1.2 B17_10MHz

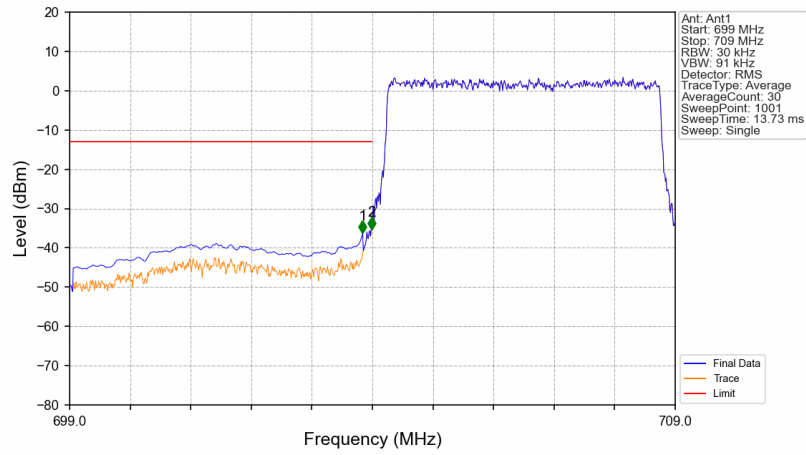
Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.2 Test Graph

5.2.1 B17_5MHz

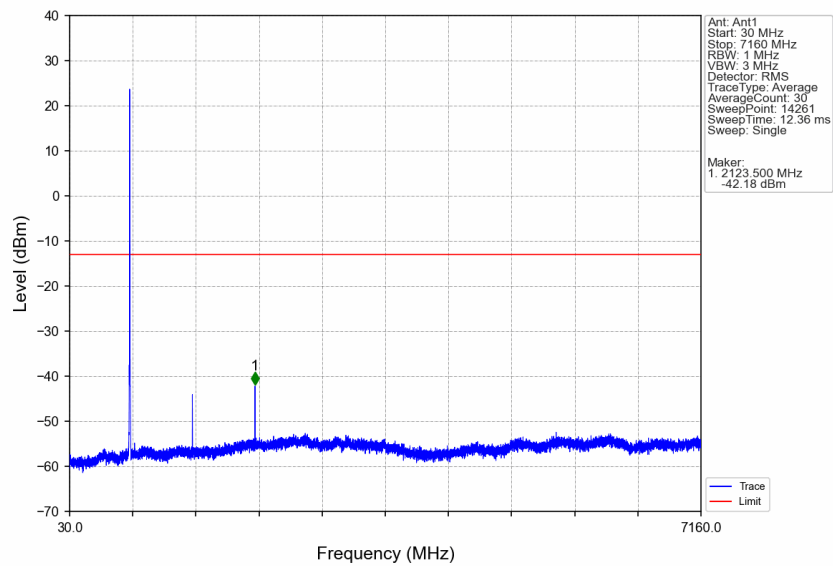


Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV

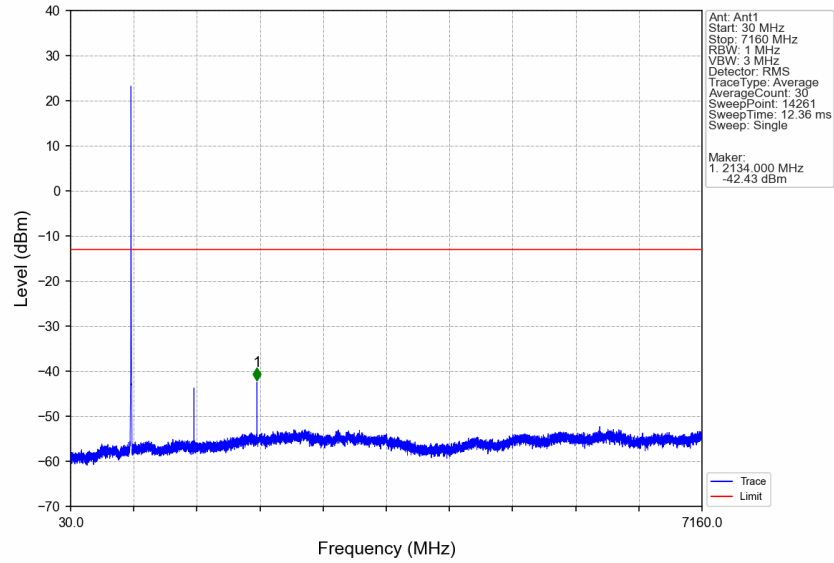


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-36.29	-13	Pass
703.9	704	0.03	/	2	703.990	-35.28	-13	Pass
704	709	0.03	/	/	/	/	/	/

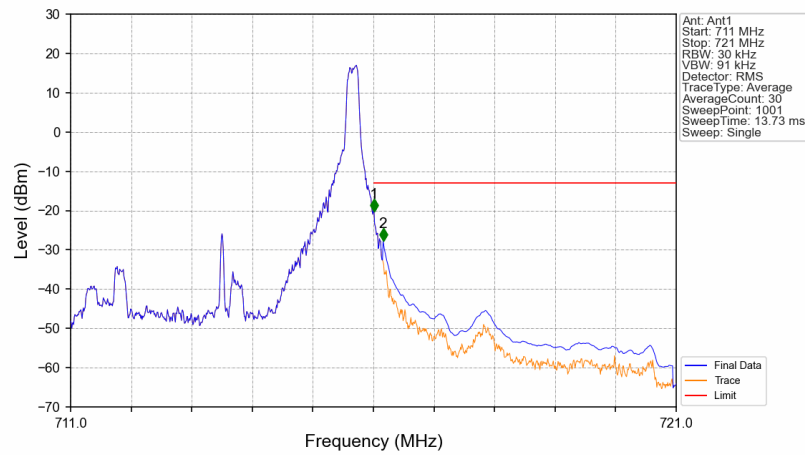
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

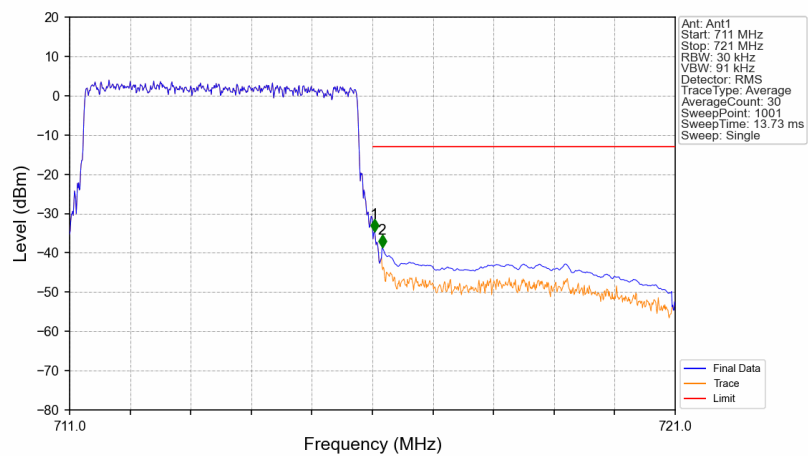


Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



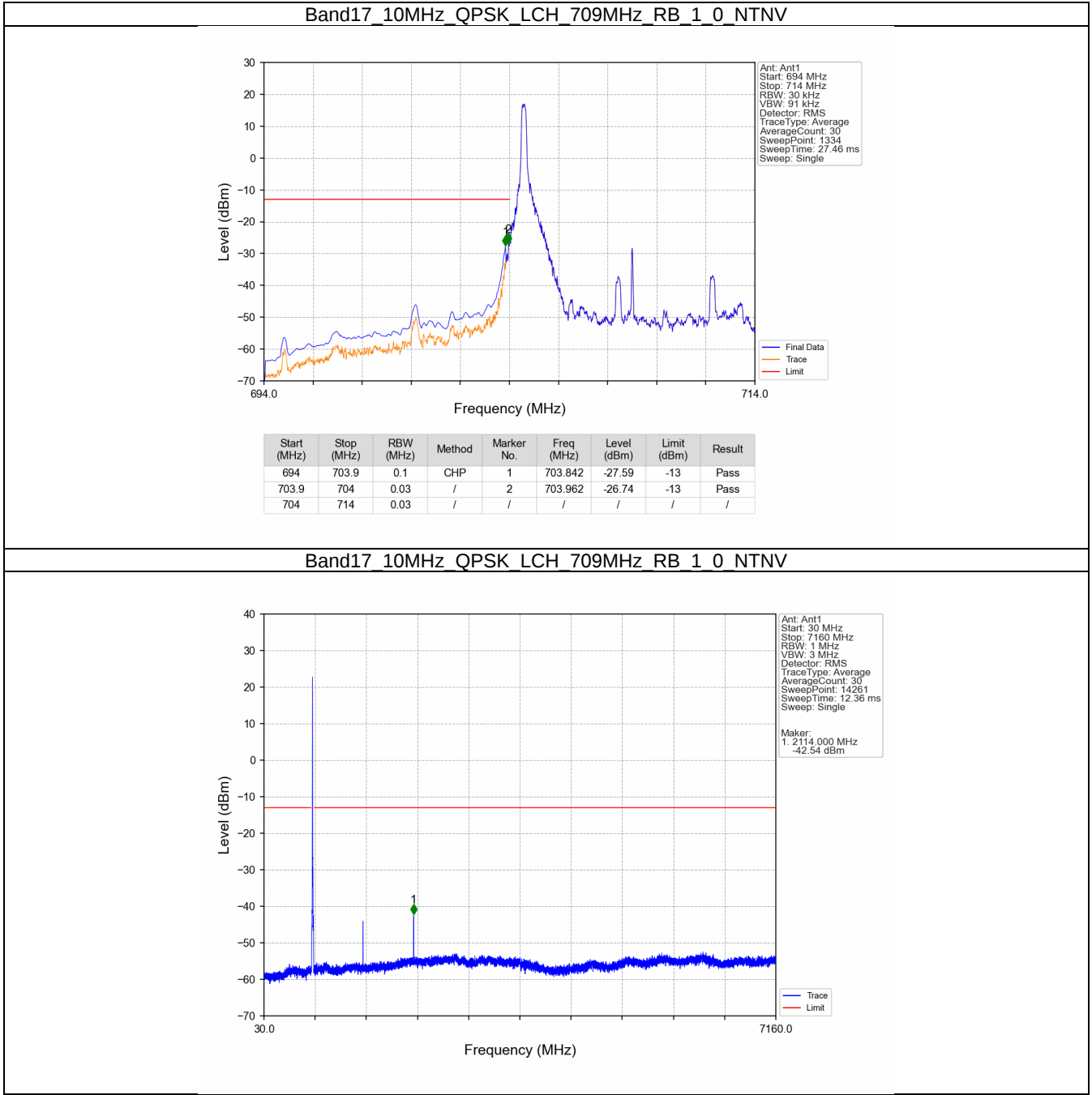
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-20.22	-13	Pass
716.1	721	0.1	CHP	2	716.160	-27.67	-13	Pass

Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV

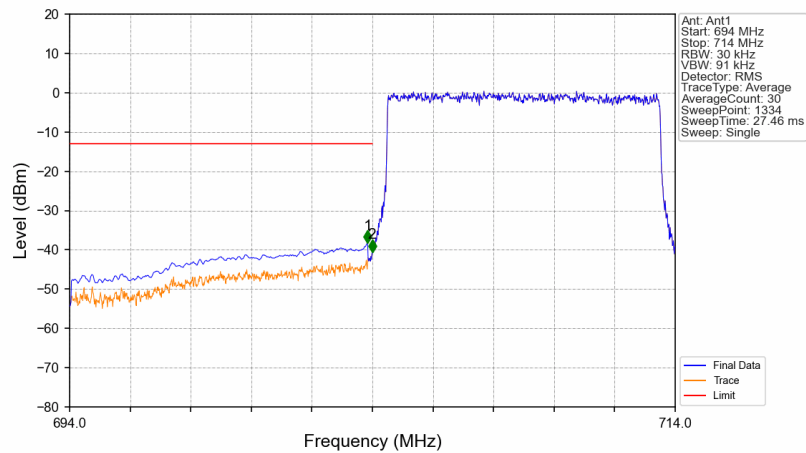


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.030	-34.62	-13	Pass
716.1	721	0.1	CHP	2	716.160	-38.55	-13	Pass

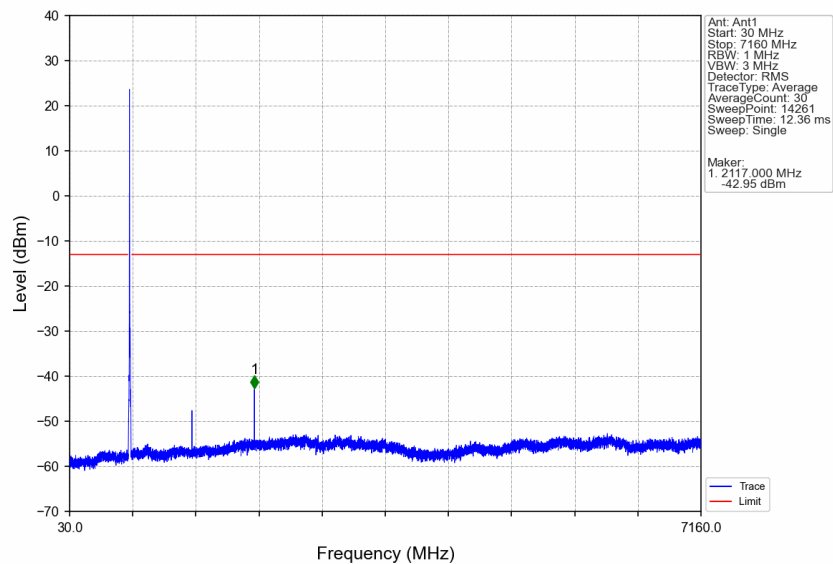
5.2.2 B17_10MHz



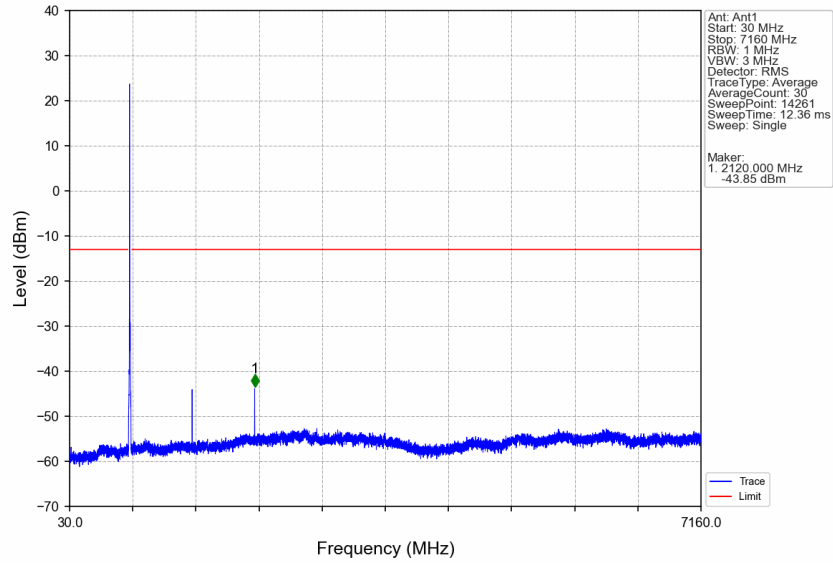
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



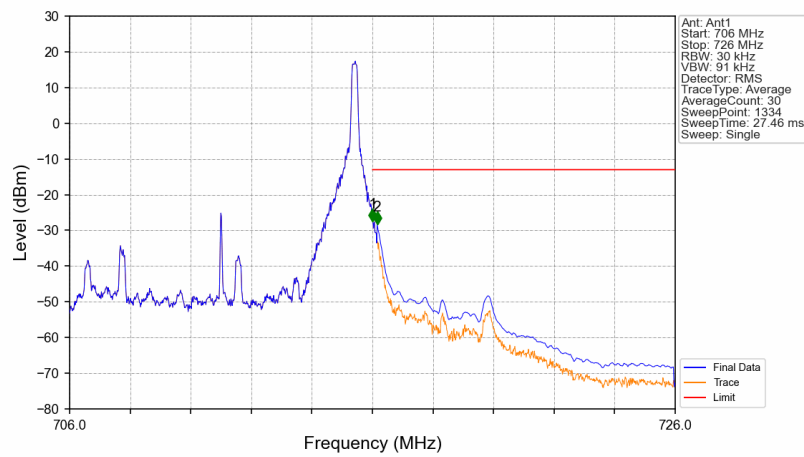
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

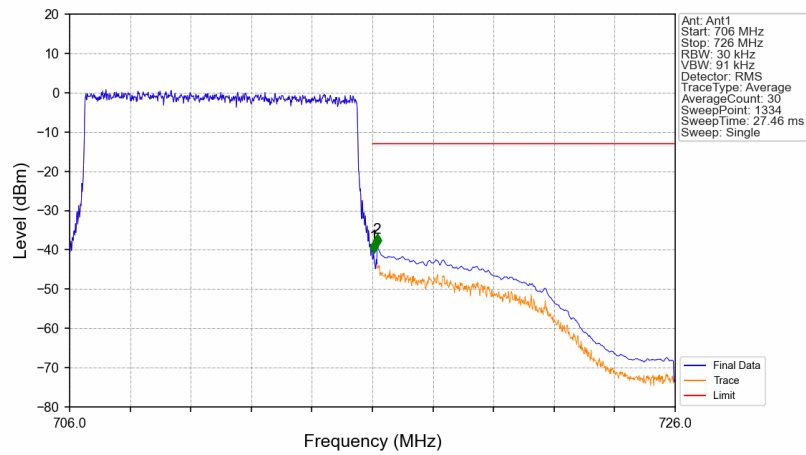


Band17_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-27.40	-13	Pass
716.1	726	0.1	CHP	2	716.158	-28.30	-13	Pass

Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.038	-40.84	-13	Pass
716.1	726	0.1	CHP	2	716.158	-39.18	-13	Pass

6. Field Strength of Spurious Radiation

Test Band = LTE Band17_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409.1429	52.76	-48.03	25.21	-65.32	-13.00	52.32	Horizontal
2	1941.1429	44.44	-47.99	26.02	-72.78	-13.00	59.78	Horizontal
3	2113.7143	45.78	-47.71	26.43	-70.76	-13.00	57.76	Horizontal
4	2818.2857	47.61	-46.86	27.77	-66.73	-13.00	53.73	Horizontal
5	3360.5714	43.03	-46.60	28.46	-70.36	-13.00	57.36	Horizontal
6	4405.7143	43.26	-45.87	30.37	-67.50	-13.00	54.50	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409.1429	51.22	-48.03	25.21	-66.86	-13.00	53.86	Vertical
2	1979.4286	44.16	-47.93	26.14	-72.89	-13.00	59.89	Vertical
3	2480	49.87	-47.31	27.16	-65.54	-13.00	52.54	Vertical
4	2818.2857	44.60	-46.86	27.77	-69.74	-13.00	56.74	Vertical
5	3462.2857	43.20	-46.54	28.56	-70.04	-13.00	57.04	Vertical
6	4303.4286	42.79	-45.78	30.13	-68.13	-13.00	55.13	Vertical

Test Band = LTE Band17_ TM1
Test Channel = Mid

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1410.8571	52.78	-48.03	25.21	-65.30	-13.00	52.30	Horizontal
2	1941.1429	44.68	-47.99	26.02	-72.54	-13.00	59.54	Horizontal
3	2116.5714	45.81	-47.71	26.43	-70.72	-13.00	57.72	Horizontal
4	2822.2857	47.93	-46.84	27.78	-66.39	-13.00	53.39	Horizontal
5	3849.1429	43.23	-46.19	29.16	-69.07	-13.00	56.07	Horizontal
6	4888.5714	42.34	-45.59	31.22	-67.29	-13.00	54.29	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411.4286	50.12	-48.04	25.21	-67.97	-13.00	54.97	Vertical
2	2045.7143	43.96	-47.81	26.29	-72.82	-13.00	59.82	Vertical
3	2563.4286	43.59	-47.05	27.31	-71.41	-13.00	58.41	Vertical
4	3264.5714	43.48	-46.54	28.36	-69.96	-13.00	56.96	Vertical
5	4717.7143	43.36	-45.77	30.95	-66.72	-13.00	53.72	Vertical
6	6605.7143	41.46	-44.47	34.29	-63.98	-13.00	50.98	Vertical

Test Band = LTE Band17_ TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.1429	53.08	-48.04	25.21	-65.01	-13.00	52.01	Horizontal
2	2120	46.91	-47.70	26.44	-69.61	-13.00	56.61	Horizontal
3	2826.2857	49.82	-46.83	27.79	-64.48	-13.00	51.48	Horizontal
4	3847.4286	43.37	-46.19	29.16	-68.93	-13.00	55.93	Horizontal
5	4567.4286	43.73	-45.73	30.71	-66.55	-13.00	53.55	Horizontal
6	5781.7143	42.37	-44.64	32.36	-65.18	-13.00	52.18	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.1429	49.84	-48.04	25.21	-68.25	-13.00	55.25	Vertical
2	1838.2857	44.42	-47.99	25.71	-73.11	-13.00	60.11	Vertical
3	2354.2857	43.78	-47.47	26.91	-72.04	-13.00	59.04	Vertical
4	3012.5714	43.28	-46.55	28.11	-70.42	-13.00	57.42	Vertical
5	4123.4286	42.64	-45.91	29.70	-68.84	-13.00	55.84	Vertical
6	5487.4286	42.88	-45.12	32.28	-65.22	-13.00	52.22	Vertical