



Annex for LTE Band 4

Test Report No.: CTL2405163031-WF

TABLE OF CONTENTS

1. Effective (Isotropic) Radiated Power Output Data	4
1.1 Test Result	4
1.1.1 B4_1.4MHz_EIRP.....	4
1.1.2 B4_3MHz_EIRP	5
1.1.3 B4_5MHz_EIRP	5
1.1.4 B4_10MHz_EIRP	6
1.1.5 B4_15MHz_EIRP	7
1.1.6 B4_20MHz_EIRP	8
2. Frequency Stability	9
2.1 Test Result	9
2.1.1 B4_1.4MHz.....	9
2.1.2 B4_3MHz.....	10
2.1.3 B4_5MHz.....	12
2.1.4 B4_10MHz.....	13
2.1.5 B4_15MHz.....	14
2.1.6 B4_20MHz.....	15
3. Modulation Characteristics.....	17
3.1 Test Result	17
3.1.1 B4_1.4MHz.....	17
3.1.2 B4_3MHz.....	17



3.1.3 B4_5MHz.....	17
3.1.4 B4_10MHz.....	17
3.1.5 B4_15MHz.....	17
3.1.6 B4_20MHz.....	18
3.2 Test Graph.....	19
3.2.1 B4_1.4MHz.....	19
3.2.2 B4_3MHz.....	20
3.2.3 B4_5MHz.....	21
3.2.4 B4_10MHz.....	22
3.2.5 B4_15MHz.....	23
3.2.6 B4_20MHz.....	24
4. 99% & 26dB Bandwidth	25
4.1 Test Result	25
4.1.1 Band4_OBW.....	25
4.1.2 Band4_XDB.....	25
4.2 Test Graph.....	27
4.2.1 Band4_OBW.....	27
4.2.2 Band4_XDB.....	45
5. Peak-Average Ratio.....	63
5.1 Test Result	63
5.1.1 B4_1.4MHz.....	63
5.1.2 B4_3MHz.....	63
5.1.3 B4_5MHz.....	63
5.1.4 B4_10MHz.....	63
5.1.5 B4_15MHz.....	64
5.1.6 B4_20MHz.....	64



5.2 Test Graph.....	65
5.2.1 B4_1.4MHz.....	65
5.2.2 B4_3MHz.....	68
5.2.3 B4_5MHz.....	71
5.2.4 B4_10MHz.....	74
5.2.5 B4_15MHz.....	77
5.2.6 B4_20MHz.....	80
6. Spurious Emission	83
6.1 Test Result	83
6.1.1 B4_1.4MHz.....	83
6.1.2 B4_3MHz.....	83
6.1.3 B4_5MHz.....	83
6.1.4 B4_10MHz.....	84
6.1.5 B4_15MHz.....	84
6.1.6 B4_20MHz.....	84
6.2 Test Graph.....	86
6.2.1 B4_1.4MHz.....	86
6.2.2 B4_3MHz.....	96
6.2.3 B4_5MHz.....	106
6.2.4 B4_10MHz.....	116
6.2.5 B4_15MHz.....	126
6.2.6 B4_20MHz.....	136

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B4_1.4MHz_EIRP

Band: 4 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1710.7	1	0	22.81	1.96	24.77	<=30	Pass
			2	23.01	1.96	24.97	<=30	Pass
			5	23.04	1.96	25.00	<=30	Pass
		3	0	23.18	1.96	25.14	<=30	Pass
			2	23.22	1.96	25.18	<=30	Pass
			3	23.11	1.96	25.07	<=30	Pass
		6	0	22.22	1.96	24.18	<=30	Pass
	1732.5	1	0	22.55	1.96	24.51	<=30	Pass
			2	22.80	1.96	24.76	<=30	Pass
			5	22.67	1.96	24.63	<=30	Pass
		3	0	22.70	1.96	24.66	<=30	Pass
			2	22.80	1.96	24.76	<=30	Pass
			3	22.64	1.96	24.60	<=30	Pass
		6	0	21.80	1.96	23.76	<=30	Pass
	1754.3	1	0	22.84	1.96	24.80	<=30	Pass
			2	23.08	1.96	25.04	<=30	Pass
			5	23.07	1.96	25.03	<=30	Pass
		3	0	23.01	1.96	24.97	<=30	Pass
			2	23.16	1.96	25.12	<=30	Pass
			3	23.12	1.96	25.08	<=30	Pass
		6	0	22.10	1.96	24.06	<=30	Pass
16QAM	1710.7	1	0	21.84	1.96	23.80	<=30	Pass
			2	22.36	1.96	24.32	<=30	Pass
			5	22.27	1.96	24.23	<=30	Pass
		3	0	22.38	1.96	24.34	<=30	Pass
			2	22.32	1.96	24.28	<=30	Pass
			3	22.26	1.96	24.22	<=30	Pass
		6	0	21.19	1.96	23.15	<=30	Pass
	1732.5	1	0	21.54	1.96	23.50	<=30	Pass
			2	21.61	1.96	23.57	<=30	Pass
			5	21.62	1.96	23.58	<=30	Pass
		3	0	21.71	1.96	23.67	<=30	Pass
			2	21.66	1.96	23.62	<=30	Pass
			3	21.93	1.96	23.89	<=30	Pass
		6	0	20.68	1.96	22.64	<=30	Pass
	1754.3	1	0	22.43	1.96	24.39	<=30	Pass
			2	22.71	1.96	24.67	<=30	Pass
			5	22.69	1.96	24.65	<=30	Pass
		3	0	21.66	1.96	23.62	<=30	Pass
			2	21.74	1.96	23.70	<=30	Pass
			3	21.92	1.96	23.88	<=30	Pass
		6	0	20.96	1.96	22.92	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

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1.1.2 B4_3MHz_EIRP

Band: 4 / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1711.5	1	0	23.19	1.96	25.15	<=30	Pass
			7	23.20	1.96	25.16	<=30	Pass
			14	22.94	1.96	24.90	<=30	Pass
		8	0	22.19	1.96	24.15	<=30	Pass
			4	22.15	1.96	24.11	<=30	Pass
			7	22.05	1.96	24.01	<=30	Pass
		15	0	22.22	1.96	24.18	<=30	Pass
	1732.5	1	0	22.93	1.96	24.89	<=30	Pass
			7	22.80	1.96	24.76	<=30	Pass
			14	22.56	1.96	24.52	<=30	Pass
		8	0	21.80	1.96	23.76	<=30	Pass
			4	21.67	1.96	23.63	<=30	Pass
			7	21.77	1.96	23.73	<=30	Pass
		15	0	21.83	1.96	23.79	<=30	Pass
	1753.5	1	0	22.92	1.96	24.88	<=30	Pass
			7	23.22	1.96	25.18	<=30	Pass
			14	23.44	1.96	25.40	<=30	Pass
		8	0	22.02	1.96	23.98	<=30	Pass
			4	22.02	1.96	23.98	<=30	Pass
			7	22.04	1.96	24.00	<=30	Pass
		15	0	21.99	1.96	23.95	<=30	Pass
16QAM	1711.5	1	0	22.45	1.96	24.41	<=30	Pass
			7	22.37	1.96	24.33	<=30	Pass
			14	22.25	1.96	24.21	<=30	Pass
		8	0	21.30	1.96	23.26	<=30	Pass
			4	21.26	1.96	23.22	<=30	Pass
			7	21.18	1.96	23.14	<=30	Pass
		15	0	21.06	1.96	23.02	<=30	Pass
	1732.5	1	0	21.64	1.96	23.60	<=30	Pass
			7	21.64	1.96	23.60	<=30	Pass
			14	21.51	1.96	23.47	<=30	Pass
		8	0	20.80	1.96	22.76	<=30	Pass
			4	20.77	1.96	22.73	<=30	Pass
			7	20.76	1.96	22.72	<=30	Pass
		15	0	20.82	1.96	22.78	<=30	Pass
	1753.5	1	0	22.32	1.96	24.28	<=30	Pass
			7	22.76	1.96	24.72	<=30	Pass
			14	22.40	1.96	24.36	<=30	Pass
		8	0	20.76	1.96	22.72	<=30	Pass
			4	20.87	1.96	22.83	<=30	Pass
			7	21.06	1.96	23.02	<=30	Pass
		15	0	21.01	1.96	22.97	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.3 B4_5MHz_EIRP

Band: 4 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1712.5	1	0	23.07	1.96	25.03	<=30	Pass
			13	22.94	1.96	24.90	<=30	Pass
			24	22.87	1.96	24.83	<=30	Pass

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16QAM	1732.5	12	0	22.22	1.96	24.18	<=30	Pass
			6	22.04	1.96	24.00	<=30	Pass
			13	21.99	1.96	23.95	<=30	Pass
		25	0	22.10	1.96	24.06	<=30	Pass
			0	22.70	1.96	24.66	<=30	Pass
			13	22.66	1.96	24.62	<=30	Pass
		1	24	22.64	1.96	24.60	<=30	Pass
			0	21.77	1.96	23.73	<=30	Pass
			6	21.67	1.96	23.63	<=30	Pass
	1752.5	12	13	21.67	1.96	23.63	<=30	Pass
			0	21.73	1.96	23.69	<=30	Pass
			13	22.76	1.96	24.72	<=30	Pass
		1	24	23.21	1.96	25.17	<=30	Pass
			0	23.44	1.96	25.40	<=30	Pass
			0	22.00	1.96	23.96	<=30	Pass
		12	6	22.12	1.96	24.08	<=30	Pass
			13	22.19	1.96	24.15	<=30	Pass
			0	22.00	1.96	23.96	<=30	Pass
16QAM	1712.5	1	0	21.58	1.96	23.54	<=30	Pass
			13	21.58	1.96	23.54	<=30	Pass
			24	21.39	1.96	23.35	<=30	Pass
		12	0	21.08	1.96	23.04	<=30	Pass
			6	21.03	1.96	22.99	<=30	Pass
			13	21.06	1.96	23.02	<=30	Pass
		25	0	21.17	1.96	23.13	<=30	Pass
			0	21.87	1.96	23.83	<=30	Pass
			13	21.75	1.96	23.71	<=30	Pass
	1732.5	1	24	21.47	1.96	23.43	<=30	Pass
			0	20.70	1.96	22.66	<=30	Pass
			6	20.79	1.96	22.75	<=30	Pass
		12	13	20.70	1.96	22.66	<=30	Pass
			0	20.68	1.96	22.64	<=30	Pass
			0	22.06	1.96	24.02	<=30	Pass
		1	13	22.56	1.96	24.52	<=30	Pass
			24	22.78	1.96	24.74	<=30	Pass
			0	20.70	1.96	22.66	<=30	Pass
	1752.5	12	6	21.01	1.96	22.97	<=30	Pass
			13	21.08	1.96	23.04	<=30	Pass
			0	20.94	1.96	22.90	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B4_10MHz_EIRP

Band: 4 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1715	1	0	23.30	1.96	25.26	<=30	Pass
			25	23.12	1.96	25.08	<=30	Pass
			49	23.31	1.96	25.27	<=30	Pass
		25	0	22.20	1.96	24.16	<=30	Pass
			13	22.07	1.96	24.03	<=30	Pass
			25	22.08	1.96	24.04	<=30	Pass
		50	0	22.12	1.96	24.08	<=30	Pass
			0	22.89	1.96	24.85	<=30	Pass
			25	23.01	1.96	24.97	<=30	Pass
	1732.5	1	49	22.51	1.96	24.47	<=30	Pass

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16QAM	1750	25	0	21.91	1.96	23.87	<=30	Pass
			13	21.83	1.96	23.79	<=30	Pass
			25	21.74	1.96	23.70	<=30	Pass
		50	0	21.82	1.96	23.78	<=30	Pass
			0	22.87	1.96	24.83	<=30	Pass
			25	23.35	1.96	25.31	<=30	Pass
		1	49	23.19	1.96	25.15	<=30	Pass
			0	21.85	1.96	23.81	<=30	Pass
			13	22.01	1.96	23.97	<=30	Pass
	1715	25	25	22.05	1.96	24.01	<=30	Pass
			0	21.91	1.96	23.87	<=30	Pass
			13	21.83	1.96	23.79	<=30	Pass
		1	25	22.59	1.96	24.55	<=30	Pass
			49	22.52	1.96	24.48	<=30	Pass
			0	21.18	1.96	23.14	<=30	Pass
		25	13	21.07	1.96	23.03	<=30	Pass
			25	21.13	1.96	23.09	<=30	Pass
			0	20.99	1.96	22.95	<=30	Pass
16QAM	1732.5	1	0	21.72	1.96	23.68	<=30	Pass
			25	21.59	1.96	23.55	<=30	Pass
			49	21.14	1.96	23.10	<=30	Pass
		25	0	21.03	1.96	22.99	<=30	Pass
			13	20.96	1.96	22.92	<=30	Pass
			25	20.66	1.96	22.62	<=30	Pass
		50	0	20.62	1.96	22.58	<=30	Pass
			0	22.34	1.96	24.30	<=30	Pass
			25	23.01	1.96	24.97	<=30	Pass
16QAM	1750	1	49	22.73	1.96	24.69	<=30	Pass
			0	20.72	1.96	22.68	<=30	Pass
			13	20.98	1.96	22.94	<=30	Pass
		25	25	20.92	1.96	22.88	<=30	Pass
			0	20.78	1.96	22.74	<=30	Pass
			0	22.75	1.96	24.71	<=30	Pass
		1	38	22.99	1.96	24.95	<=30	Pass
			74	23.19	1.96	25.15	<=30	Pass
			0	22.75	1.96	24.71	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.5 B4_15MHz_EIRP

Band: 4 / Bandwidth: 15MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1717.5	1	0	23.24	1.96	25.20	<=30	Pass
			38	23.10	1.96	25.06	<=30	Pass
			74	23.37	1.96	25.33	<=30	Pass
		36	0	22.11	1.96	24.07	<=30	Pass
			18	22.20	1.96	24.16	<=30	Pass
			39	22.18	1.96	24.14	<=30	Pass
		75	0	22.11	1.96	24.07	<=30	Pass
			0	22.79	1.96	24.75	<=30	Pass
			38	22.66	1.96	24.62	<=30	Pass
QPSK	1732.5	1	74	22.43	1.96	24.39	<=30	Pass
			0	21.91	1.96	23.87	<=30	Pass
			18	21.78	1.96	23.74	<=30	Pass
		36	39	21.63	1.96	23.59	<=30	Pass
			0	21.76	1.96	23.72	<=30	Pass
			0	22.75	1.96	24.71	<=30	Pass
		75	38	22.99	1.96	24.95	<=30	Pass
			74	23.19	1.96	25.15	<=30	Pass
			0	22.75	1.96	24.71	<=30	Pass

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		36	0	21.84	1.96	23.80	<=30	Pass		
			18	21.89	1.96	23.85	<=30	Pass		
			39	22.01	1.96	23.97	<=30	Pass		
		75	0	21.82	1.96	23.78	<=30	Pass		
16QAM	1717.5	1	0	22.75	1.96	24.71	<=30	Pass		
			38	22.56	1.96	24.52	<=30	Pass		
			74	22.52	1.96	24.48	<=30	Pass		
		36	0	21.06	1.96	23.02	<=30	Pass		
			18	21.00	1.96	22.96	<=30	Pass		
			39	20.97	1.96	22.93	<=30	Pass		
		75	0	20.89	1.96	22.85	<=30	Pass		
		1732.5	1	0	22.13	1.96	24.09	<=30	Pass	
				38	21.82	1.96	23.78	<=30	Pass	
	74			20.73	1.96	22.69	<=30	Pass		
	36		0	20.85	1.96	22.81	<=30	Pass		
			18	20.83	1.96	22.79	<=30	Pass		
			39	20.47	1.96	22.43	<=30	Pass		
	75		0	20.61	1.96	22.57	<=30	Pass		
	1747.5		1	0	22.56	1.96	24.52	<=30	Pass	
				38	23.03	1.96	24.99	<=30	Pass	
		74		22.69	1.96	24.65	<=30	Pass		
		36	0	20.67	1.96	22.63	<=30	Pass		
			18	20.85	1.96	22.81	<=30	Pass		
			39	21.14	1.96	23.10	<=30	Pass		
		75	0	20.88	1.96	22.84	<=30	Pass		
		Note1: EIRP=Conducted Power+Antenna Gain								

Note1: EIRP=Conducted Power+Antenna Gain

1.1.6 B4_20MHz_EIRP

Band: 4 / Bandwidth: 20MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1720	1	0	23.15	1.96	25.11	<=30	Pass
			50	23.53	1.96	25.49	<=30	Pass
			99	22.92	1.96	24.88	<=30	Pass
		50	0	22.21	1.96	24.17	<=30	Pass
			25	22.09	1.96	24.05	<=30	Pass
			50	22.21	1.96	24.17	<=30	Pass
		100	0	22.08	1.96	24.04	<=30	Pass
			0	23.09	1.96	25.05	<=30	Pass
			50	23.05	1.96	25.01	<=30	Pass
	1732.5	1	99	22.64	1.96	24.60	<=30	Pass
			0	22.02	1.96	23.98	<=30	Pass
			25	21.80	1.96	23.76	<=30	Pass
		50	50	21.75	1.96	23.71	<=30	Pass
			0	22.05	1.96	24.01	<=30	Pass
			0	22.05	1.96	24.01	<=30	Pass
		100	0	23.03	1.96	24.99	<=30	Pass
			50	23.17	1.96	25.13	<=30	Pass
			99	23.03	1.96	24.99	<=30	Pass
	1745	1	0	21.82	1.96	23.78	<=30	Pass
			25	21.97	1.96	23.93	<=30	Pass
			50	21.86	1.96	23.82	<=30	Pass
		50	0	21.83	1.96	23.79	<=30	Pass
			0	22.14	1.96	24.10	<=30	Pass
			50	22.76	1.96	24.72	<=30	Pass
		100	99	22.36	1.96	24.32	<=30	Pass

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		50	0	21.00	1.96	22.96	<=30	Pass
			25	21.10	1.96	23.06	<=30	Pass
			50	21.17	1.96	23.13	<=30	Pass
		100	0	21.07	1.96	23.03	<=30	Pass
	1732.5	1	0	22.78	1.96	24.74	<=30	Pass
			50	22.89	1.96	24.85	<=30	Pass
			99	22.00	1.96	23.96	<=30	Pass
		50	0	20.81	1.96	22.77	<=30	Pass
			25	20.75	1.96	22.71	<=30	Pass
			50	20.65	1.96	22.61	<=30	Pass
		100	0	20.84	1.96	22.80	<=30	Pass
	1745	1	0	21.79	1.96	23.75	<=30	Pass
			50	21.88	1.96	23.84	<=30	Pass
			99	21.97	1.96	23.93	<=30	Pass
		50	0	20.82	1.96	22.78	<=30	Pass
			25	20.82	1.96	22.78	<=30	Pass
			50	20.89	1.96	22.85	<=30	Pass
		100	0	20.68	1.96	22.64	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 B4_1.4MHz

Band: 4 / Bandwidth: 1.4MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1710.7	6	0	20	3.27	2.460	0.0014	-2.5 to 2.5	Pass
					3.85	1.016	0.0006	-2.5 to 2.5	Pass
					4.43	0.229	0.0001	-2.5 to 2.5	Pass
				-30	3.85	1.001	0.0006	-2.5 to 2.5	Pass
				-20	3.85	1.216	0.0007	-2.5 to 2.5	Pass
				-10	3.85	1.588	0.0009	-2.5 to 2.5	Pass
				0	3.85	1.130	0.0007	-2.5 to 2.5	Pass
				10	3.85	0.558	0.0003	-2.5 to 2.5	Pass
				30	3.85	1.388	0.0008	-2.5 to 2.5	Pass
				40	3.85	1.659	0.0010	-2.5 to 2.5	Pass
	50	3.85	1.287	0.0008	-2.5 to 2.5	Pass			
	1732.5	6	0	20	3.27	1.202	0.0007	-2.5 to 2.5	Pass
					3.85	-0.129	-0.0001	-2.5 to 2.5	Pass
					4.43	1.302	0.0008	-2.5 to 2.5	Pass
				-30	3.85	-1.888	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	0.257	0.0001	-2.5 to 2.5	Pass
				-10	3.85	-0.186	-0.0001	-2.5 to 2.5	Pass
				0	3.85	1.202	0.0007	-2.5 to 2.5	Pass
				10	3.85	-0.787	-0.0005	-2.5 to 2.5	Pass
				30	3.85	0.401	0.0002	-2.5 to 2.5	Pass
				40	3.85	-0.887	-0.0005	-2.5 to 2.5	Pass
	50	3.85	-1.016	-0.0006	-2.5 to 2.5	Pass			
	1754.3	6	0	20	3.27	-3.347	-0.0019	-2.5 to 2.5	Pass
					3.85	-1.645	-0.0009	-2.5 to 2.5	Pass
					4.43	-2.961	-0.0017	-2.5 to 2.5	Pass

FCCID: 2BCUE-P8GLOBAL

16QAM	1710.7	6	0	-30	3.85	-4.492	-0.0026	-2.5 to 2.5	Pass
				-20	3.85	-2.847	-0.0016	-2.5 to 2.5	Pass
				-10	3.85	-2.532	-0.0014	-2.5 to 2.5	Pass
				0	3.85	-2.632	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-1.588	-0.0009	-2.5 to 2.5	Pass
				30	3.85	-2.546	-0.0015	-2.5 to 2.5	Pass
				40	3.85	-4.721	-0.0027	-2.5 to 2.5	Pass
				50	3.85	-1.302	-0.0007	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.27	0.200	0.0001	-2.5 to 2.5	Pass
					3.85	1.116	0.0007	-2.5 to 2.5	Pass
					4.43	1.616	0.0009	-2.5 to 2.5	Pass
				-30	3.85	0.887	0.0005	-2.5 to 2.5	Pass
				-20	3.85	2.303	0.0013	-2.5 to 2.5	Pass
				-10	3.85	0.987	0.0006	-2.5 to 2.5	Pass
				0	3.85	1.502	0.0009	-2.5 to 2.5	Pass
				10	3.85	0.486	0.0003	-2.5 to 2.5	Pass
				30	3.85	2.117	0.0012	-2.5 to 2.5	Pass
				40	3.85	1.101	0.0006	-2.5 to 2.5	Pass
				50	3.85	-0.172	-0.0001	-2.5 to 2.5	Pass
				20	3.27	1.001	0.0006	-2.5 to 2.5	Pass
					3.85	0.472	0.0003	-2.5 to 2.5	Pass
					4.43	-0.272	-0.0002	-2.5 to 2.5	Pass
				-30	3.85	1.488	0.0009	-2.5 to 2.5	Pass
				-20	3.85	0.815	0.0005	-2.5 to 2.5	Pass
				-10	3.85	1.373	0.0008	-2.5 to 2.5	Pass
				0	3.85	0.043	0.0000	-2.5 to 2.5	Pass
				10	3.85	-0.072	0.0000	-2.5 to 2.5	Pass
				30	3.85	-1.159	-0.0007	-2.5 to 2.5	Pass
				40	3.85	-0.315	-0.0002	-2.5 to 2.5	Pass
				50	3.85	-0.844	-0.0005	-2.5 to 2.5	Pass
	1754.3	6	0	20	3.27	-1.116	-0.0006	-2.5 to 2.5	Pass
					3.85	-2.646	-0.0015	-2.5 to 2.5	Pass
					4.43	-1.945	-0.0011	-2.5 to 2.5	Pass
				-30	3.85	-1.860	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	-0.916	-0.0005	-2.5 to 2.5	Pass
				-10	3.85	-0.801	-0.0005	-2.5 to 2.5	Pass
				0	3.85	-3.304	-0.0019	-2.5 to 2.5	Pass
				10	3.85	-1.202	-0.0007	-2.5 to 2.5	Pass
				30	3.85	-3.290	-0.0019	-2.5 to 2.5	Pass
				40	3.85	-1.516	-0.0009	-2.5 to 2.5	Pass
				50	3.85	-2.904	-0.0017	-2.5 to 2.5	Pass

2.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1711.5	15	0	20	3.27	-0.730	-0.0004	-2.5 to 2.5	Pass
					3.85	0.644	0.0004	-2.5 to 2.5	Pass
					4.43	-0.215	-0.0001	-2.5 to 2.5	Pass
				-30	3.85	-0.515	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	-1.059	-0.0006	-2.5 to 2.5	Pass
				-10	3.85	0.701	0.0004	-2.5 to 2.5	Pass
				0	3.85	-0.715	-0.0004	-2.5 to 2.5	Pass
				10	3.85	0.300	0.0002	-2.5 to 2.5	Pass
				30	3.85	0.587	0.0003	-2.5 to 2.5	Pass

FCCID: 2BCUE-P8GLOBAL

	1732.5	15	0	40	3.85	0.830	0.0005	-2.5 to 2.5	Pass
				50	3.85	0.687	0.0004	-2.5 to 2.5	Pass
				20	3.27	0.644	0.0004	-2.5 to 2.5	Pass
					3.85	1.202	0.0007	-2.5 to 2.5	Pass
					4.43	1.230	0.0007	-2.5 to 2.5	Pass
				-30	3.85	0.057	0.0000	-2.5 to 2.5	Pass
				-20	3.85	-0.401	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	-0.887	-0.0005	-2.5 to 2.5	Pass
				0	3.85	1.416	0.0008	-2.5 to 2.5	Pass
				10	3.85	1.574	0.0009	-2.5 to 2.5	Pass
				30	3.85	-0.429	-0.0002	-2.5 to 2.5	Pass
				40	3.85	0.944	0.0005	-2.5 to 2.5	Pass
				50	3.85	1.216	0.0007	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	0.072	0.0000	-2.5 to 2.5	Pass
					3.85	-0.658	-0.0004	-2.5 to 2.5	Pass
					4.43	-0.629	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	-0.372	-0.0002	-2.5 to 2.5	Pass
				-20	3.85	0.629	0.0004	-2.5 to 2.5	Pass
				-10	3.85	0.515	0.0003	-2.5 to 2.5	Pass
				0	3.85	-0.186	-0.0001	-2.5 to 2.5	Pass
				10	3.85	0.372	0.0002	-2.5 to 2.5	Pass
				30	3.85	-0.515	-0.0003	-2.5 to 2.5	Pass
				40	3.85	0.887	0.0005	-2.5 to 2.5	Pass
				50	3.85	0.629	0.0004	-2.5 to 2.5	Pass
16QAM	1711.5	15	0	20	3.27	-0.858	-0.0005	-2.5 to 2.5	Pass
					3.85	-0.429	-0.0003	-2.5 to 2.5	Pass
					4.43	-0.114	-0.0001	-2.5 to 2.5	Pass
				-30	3.85	0.086	0.0001	-2.5 to 2.5	Pass
				-20	3.85	0.658	0.0004	-2.5 to 2.5	Pass
				-10	3.85	0.172	0.0001	-2.5 to 2.5	Pass
				0	3.85	1.044	0.0006	-2.5 to 2.5	Pass
				10	3.85	0.587	0.0003	-2.5 to 2.5	Pass
				30	3.85	0.243	0.0001	-2.5 to 2.5	Pass
				40	3.85	1.130	0.0007	-2.5 to 2.5	Pass
				50	3.85	-0.987	-0.0006	-2.5 to 2.5	Pass
	1732.5	15	0	20	3.27	0.772	0.0004	-2.5 to 2.5	Pass
					3.85	0.358	0.0002	-2.5 to 2.5	Pass
					4.43	0.873	0.0005	-2.5 to 2.5	Pass
				-30	3.85	0.000	0.0000	-2.5 to 2.5	Pass
				-20	3.85	0.930	0.0005	-2.5 to 2.5	Pass
				-10	3.85	0.343	0.0002	-2.5 to 2.5	Pass
				0	3.85	0.372	0.0002	-2.5 to 2.5	Pass
				10	3.85	1.545	0.0009	-2.5 to 2.5	Pass
				30	3.85	2.103	0.0012	-2.5 to 2.5	Pass
				40	3.85	0.973	0.0006	-2.5 to 2.5	Pass
				50	3.85	0.615	0.0004	-2.5 to 2.5	Pass
	1753.5	15	0	20	3.27	0.043	0.0000	-2.5 to 2.5	Pass
					3.85	-0.830	-0.0005	-2.5 to 2.5	Pass
					4.43	1.216	0.0007	-2.5 to 2.5	Pass
				-30	3.85	1.330	0.0008	-2.5 to 2.5	Pass
				-20	3.85	1.616	0.0009	-2.5 to 2.5	Pass
				-10	3.85	1.574	0.0009	-2.5 to 2.5	Pass
				0	3.85	1.044	0.0006	-2.5 to 2.5	Pass
				10	3.85	-1.001	-0.0006	-2.5 to 2.5	Pass
				30	3.85	0.443	0.0003	-2.5 to 2.5	Pass
				40	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
				50	3.85	-0.744	-0.0004	-2.5 to 2.5	Pass

FCCID: 2BCUE-P8GLOBAL

2.1.3 B4_5MHz

Band: 4 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1712.5	25	0	20	3.27	1.602	0.0009	-2.5 to 2.5	Pass
					3.85	0.358	0.0002	-2.5 to 2.5	Pass
					4.43	1.631	0.0010	-2.5 to 2.5	Pass
				-30	3.85	1.416	0.0008	-2.5 to 2.5	Pass
				-20	3.85	0.601	0.0004	-2.5 to 2.5	Pass
				-10	3.85	1.802	0.0011	-2.5 to 2.5	Pass
				0	3.85	0.987	0.0006	-2.5 to 2.5	Pass
				10	3.85	1.287	0.0008	-2.5 to 2.5	Pass
				30	3.85	1.245	0.0007	-2.5 to 2.5	Pass
				40	3.85	1.373	0.0008	-2.5 to 2.5	Pass
				50	3.85	0.916	0.0005	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	-0.129	-0.0001	-2.5 to 2.5	Pass
					3.85	0.200	0.0001	-2.5 to 2.5	Pass
					4.43	0.157	0.0001	-2.5 to 2.5	Pass
				-30	3.85	-0.329	-0.0002	-2.5 to 2.5	Pass
				-20	3.85	-0.243	-0.0001	-2.5 to 2.5	Pass
				-10	3.85	-0.358	-0.0002	-2.5 to 2.5	Pass
				0	3.85	1.345	0.0008	-2.5 to 2.5	Pass
				10	3.85	0.157	0.0001	-2.5 to 2.5	Pass
				30	3.85	0.043	0.0000	-2.5 to 2.5	Pass
				40	3.85	0.300	0.0002	-2.5 to 2.5	Pass
				50	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	-2.503	-0.0014	-2.5 to 2.5	Pass
					3.85	-1.974	-0.0011	-2.5 to 2.5	Pass
					4.43	-3.219	-0.0018	-2.5 to 2.5	Pass
				-30	3.85	-3.605	-0.0021	-2.5 to 2.5	Pass
				-20	3.85	-2.260	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	-3.877	-0.0022	-2.5 to 2.5	Pass
				0	3.85	-3.719	-0.0021	-2.5 to 2.5	Pass
				10	3.85	-2.661	-0.0015	-2.5 to 2.5	Pass
				30	3.85	-1.774	-0.0010	-2.5 to 2.5	Pass
				40	3.85	-2.189	-0.0012	-2.5 to 2.5	Pass
				50	3.85	-2.046	-0.0012	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.27	1.216	0.0007	-2.5 to 2.5	Pass
					3.85	0.987	0.0006	-2.5 to 2.5	Pass
					4.43	0.658	0.0004	-2.5 to 2.5	Pass
				-30	3.85	2.146	0.0013	-2.5 to 2.5	Pass
				-20	3.85	1.330	0.0008	-2.5 to 2.5	Pass
				-10	3.85	3.119	0.0018	-2.5 to 2.5	Pass
				0	3.85	1.559	0.0009	-2.5 to 2.5	Pass
				10	3.85	1.817	0.0011	-2.5 to 2.5	Pass
				30	3.85	0.887	0.0005	-2.5 to 2.5	Pass
				40	3.85	2.131	0.0012	-2.5 to 2.5	Pass
				50	3.85	0.873	0.0005	-2.5 to 2.5	Pass
	1732.5	25	0	20	3.27	-0.601	-0.0003	-2.5 to 2.5	Pass
					3.85	-0.858	-0.0005	-2.5 to 2.5	Pass
					4.43	1.016	0.0006	-2.5 to 2.5	Pass
				-30	3.85	0.343	0.0002	-2.5 to 2.5	Pass
				-20	3.85	0.243	0.0001	-2.5 to 2.5	Pass
				-10	3.85	-0.143	-0.0001	-2.5 to 2.5	Pass

FCCID: 2BCUE-P8GLOBAL

				0	3.85	-0.415	-0.0002	-2.5 to 2.5	Pass
				10	3.85	-0.901	-0.0005	-2.5 to 2.5	Pass
				30	3.85	0.687	0.0004	-2.5 to 2.5	Pass
				40	3.85	0.315	0.0002	-2.5 to 2.5	Pass
				50	3.85	0.129	0.0001	-2.5 to 2.5	Pass
	1752.5	25	0	20	3.27	-3.204	-0.0018	-2.5 to 2.5	Pass
					3.85	-2.389	-0.0014	-2.5 to 2.5	Pass
					4.43	-2.775	-0.0016	-2.5 to 2.5	Pass
				-30	3.85	-4.449	-0.0025	-2.5 to 2.5	Pass
				-20	3.85	-2.446	-0.0014	-2.5 to 2.5	Pass
				-10	3.85	-3.390	-0.0019	-2.5 to 2.5	Pass
				0	3.85	-2.804	-0.0016	-2.5 to 2.5	Pass
				10	3.85	-2.460	-0.0014	-2.5 to 2.5	Pass
				30	3.85	-3.562	-0.0020	-2.5 to 2.5	Pass
				40	3.85	-2.604	-0.0015	-2.5 to 2.5	Pass
				50	3.85	-3.405	-0.0019	-2.5 to 2.5	Pass

2.1.4 B4_10MHz

Band: 4 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1715	50	0	20	3.27	-2.432	-0.0014	-2.5 to 2.5	Pass
					3.85	-2.704	-0.0016	-2.5 to 2.5	Pass
					4.43	-3.290	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-2.375	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	-2.131	-0.0012	-2.5 to 2.5	Pass
				-10	3.85	-3.290	-0.0019	-2.5 to 2.5	Pass
				0	3.85	-2.632	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-2.604	-0.0015	-2.5 to 2.5	Pass
				30	3.85	-2.747	-0.0016	-2.5 to 2.5	Pass
				40	3.85	-3.018	-0.0018	-2.5 to 2.5	Pass
	1732.5	50	0	20	3.85	-3.762	-0.0022	-2.5 to 2.5	Pass
					3.27	0.143	0.0001	-2.5 to 2.5	Pass
					3.85	1.130	0.0007	-2.5 to 2.5	Pass
				-30	4.43	-0.114	-0.0001	-2.5 to 2.5	Pass
					3.85	0.601	0.0003	-2.5 to 2.5	Pass
					3.85	1.130	0.0007	-2.5 to 2.5	Pass
				-20	3.85	0.644	0.0004	-2.5 to 2.5	Pass
				-10	3.85	0.601	0.0003	-2.5 to 2.5	Pass
				0	3.85	0.043	0.0000	-2.5 to 2.5	Pass
				10	3.85	-0.329	-0.0002	-2.5 to 2.5	Pass
	1750	50	0	40	3.85	-0.157	-0.0001	-2.5 to 2.5	Pass
					3.85	0.143	0.0001	-2.5 to 2.5	Pass
					3.85	0.143	0.0001	-2.5 to 2.5	Pass
				20	3.27	1.602	0.0009	-2.5 to 2.5	Pass
					3.85	1.330	0.0008	-2.5 to 2.5	Pass
					4.43	1.845	0.0011	-2.5 to 2.5	Pass
				-30	3.85	2.332	0.0013	-2.5 to 2.5	Pass
				-20	3.85	0.916	0.0005	-2.5 to 2.5	Pass
				-10	3.85	1.731	0.0010	-2.5 to 2.5	Pass
				0	3.85	0.558	0.0003	-2.5 to 2.5	Pass
16QAM	1715	50	0	20	3.85	0.772	0.0004	-2.5 to 2.5	Pass
					3.85	1.130	0.0006	-2.5 to 2.5	Pass
					3.85	1.473	0.0008	-2.5 to 2.5	Pass
					3.85	1.273	0.0007	-2.5 to 2.5	Pass
					3.27	-2.160	-0.0013	-2.5 to 2.5	Pass

FCCID: 2BCUE-P8GLOBAL

						3.85	-3.190	-0.0019	-2.5 to 2.5	Pass
						4.43	-4.478	-0.0026	-2.5 to 2.5	Pass
					-30	3.85	-2.432	-0.0014	-2.5 to 2.5	Pass
					-20	3.85	-3.119	-0.0018	-2.5 to 2.5	Pass
					-10	3.85	-3.190	-0.0019	-2.5 to 2.5	Pass
					0	3.85	-3.104	-0.0018	-2.5 to 2.5	Pass
					10	3.85	-2.189	-0.0013	-2.5 to 2.5	Pass
					30	3.85	-4.535	-0.0026	-2.5 to 2.5	Pass
					40	3.85	-3.004	-0.0018	-2.5 to 2.5	Pass
					50	3.85	-4.234	-0.0025	-2.5 to 2.5	Pass
	1732.5	50	0		20	3.27	-0.501	-0.0003	-2.5 to 2.5	Pass
						3.85	0.358	0.0002	-2.5 to 2.5	Pass
						4.43	0.000	0.0000	-2.5 to 2.5	Pass
					-30	3.85	0.086	0.0000	-2.5 to 2.5	Pass
					-20	3.85	-0.129	-0.0001	-2.5 to 2.5	Pass
					-10	3.85	0.443	0.0003	-2.5 to 2.5	Pass
					0	3.85	0.973	0.0006	-2.5 to 2.5	Pass
					10	3.85	-0.329	-0.0002	-2.5 to 2.5	Pass
					30	3.85	-0.329	-0.0002	-2.5 to 2.5	Pass
					40	3.85	0.043	0.0000	-2.5 to 2.5	Pass
	50	3.85	0.415	0.0002	-2.5 to 2.5	Pass				
	1750	50	0	20	3.27	1.345	0.0008	-2.5 to 2.5	Pass	
					3.85	0.114	0.0001	-2.5 to 2.5	Pass	
					4.43	1.945	0.0011	-2.5 to 2.5	Pass	
				-30	3.85	1.116	0.0006	-2.5 to 2.5	Pass	
				-20	3.85	1.717	0.0010	-2.5 to 2.5	Pass	
				-10	3.85	2.689	0.0015	-2.5 to 2.5	Pass	
				0	3.85	1.516	0.0009	-2.5 to 2.5	Pass	
				10	3.85	2.289	0.0013	-2.5 to 2.5	Pass	
				30	3.85	2.861	0.0016	-2.5 to 2.5	Pass	
				40	3.85	2.460	0.0014	-2.5 to 2.5	Pass	
				50	3.85	2.031	0.0012	-2.5 to 2.5	Pass	

2.1.5 B4_15MHz

Band: 4 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1717.5	75	0	20	3.27	0.472	0.0003	-2.5 to 2.5	Pass
					3.85	0.072	0.0000	-2.5 to 2.5	Pass
					4.43	-0.529	-0.0003	-2.5 to 2.5	Pass
				-30	3.85	0.386	0.0002	-2.5 to 2.5	Pass
				-20	3.85	-0.114	-0.0001	-2.5 to 2.5	Pass
				-10	3.85	-0.315	-0.0002	-2.5 to 2.5	Pass
				0	3.85	-0.486	-0.0003	-2.5 to 2.5	Pass
				10	3.85	-0.372	-0.0002	-2.5 to 2.5	Pass
				30	3.85	0.057	0.0000	-2.5 to 2.5	Pass
				40	3.85	0.229	0.0001	-2.5 to 2.5	Pass
				50	3.85	1.330	0.0008	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	1.559	0.0009	-2.5 to 2.5	Pass
					3.85	1.001	0.0006	-2.5 to 2.5	Pass
					4.43	0.215	0.0001	-2.5 to 2.5	Pass
				-30	3.85	0.744	0.0004	-2.5 to 2.5	Pass
				-20	3.85	1.159	0.0007	-2.5 to 2.5	Pass
				-10	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
				0	3.85	1.030	0.0006	-2.5 to 2.5	Pass

FCCID: 2BCUE-P8GLOBAL

	1747.5	75	0	10	3.85	-0.758	-0.0004	-2.5 to 2.5	Pass
				30	3.85	0.815	0.0005	-2.5 to 2.5	Pass
				40	3.85	-0.644	-0.0004	-2.5 to 2.5	Pass
				50	3.85	1.173	0.0007	-2.5 to 2.5	Pass
				20	3.27	0.644	0.0004	-2.5 to 2.5	Pass
					3.85	0.014	0.0000	-2.5 to 2.5	Pass
					4.43	-0.014	0.0000	-2.5 to 2.5	Pass
				-30	3.85	-0.329	-0.0002	-2.5 to 2.5	Pass
				-20	3.85	0.172	0.0001	-2.5 to 2.5	Pass
				-10	3.85	0.215	0.0001	-2.5 to 2.5	Pass
				0	3.85	0.072	0.0000	-2.5 to 2.5	Pass
				10	3.85	0.029	0.0000	-2.5 to 2.5	Pass
				30	3.85	-0.358	-0.0002	-2.5 to 2.5	Pass
				40	3.85	-0.515	-0.0003	-2.5 to 2.5	Pass
				50	3.85	-0.057	0.0000	-2.5 to 2.5	Pass
16QAM	1717.5	75	0	20	3.27	0.029	0.0000	-2.5 to 2.5	Pass
					3.85	1.044	0.0006	-2.5 to 2.5	Pass
					4.43	0.386	0.0002	-2.5 to 2.5	Pass
				-30	3.85	-0.615	-0.0004	-2.5 to 2.5	Pass
				-20	3.85	1.202	0.0007	-2.5 to 2.5	Pass
				-10	3.85	0.830	0.0005	-2.5 to 2.5	Pass
				0	3.85	1.001	0.0006	-2.5 to 2.5	Pass
				10	3.85	-0.758	-0.0004	-2.5 to 2.5	Pass
				30	3.85	-0.486	-0.0003	-2.5 to 2.5	Pass
				40	3.85	0.529	0.0003	-2.5 to 2.5	Pass
				50	3.85	0.715	0.0004	-2.5 to 2.5	Pass
	1732.5	75	0	20	3.27	0.944	0.0005	-2.5 to 2.5	Pass
					3.85	-0.114	-0.0001	-2.5 to 2.5	Pass
					4.43	0.300	0.0002	-2.5 to 2.5	Pass
				-30	3.85	-0.129	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	0.215	0.0001	-2.5 to 2.5	Pass
				-10	3.85	0.458	0.0003	-2.5 to 2.5	Pass
				0	3.85	0.901	0.0005	-2.5 to 2.5	Pass
				10	3.85	0.744	0.0004	-2.5 to 2.5	Pass
				30	3.85	0.114	0.0001	-2.5 to 2.5	Pass
				40	3.85	0.515	0.0003	-2.5 to 2.5	Pass
				50	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
	1747.5	75	0	20	3.27	0.257	0.0001	-2.5 to 2.5	Pass
					3.85	0.501	0.0003	-2.5 to 2.5	Pass
					4.43	1.431	0.0008	-2.5 to 2.5	Pass
				-30	3.85	0.272	0.0002	-2.5 to 2.5	Pass
				-20	3.85	0.944	0.0005	-2.5 to 2.5	Pass
				-10	3.85	0.286	0.0002	-2.5 to 2.5	Pass
				0	3.85	0.415	0.0002	-2.5 to 2.5	Pass
				10	3.85	-0.815	-0.0005	-2.5 to 2.5	Pass
				30	3.85	0.629	0.0004	-2.5 to 2.5	Pass
				40	3.85	1.631	0.0009	-2.5 to 2.5	Pass
				50	3.85	0.186	0.0001	-2.5 to 2.5	Pass

2.1.6 B4_20MHz

Band: 4 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1720	100	0	20	3.27	1.373	0.0008	-2.5 to 2.5	Pass
					3.85	0.587	0.0003	-2.5 to 2.5	Pass

FCCID: 2BCUE-P8GLOBAL

					4.43	0.629	0.0004	-2.5 to 2.5	Pass
				-30	3.85	1.259	0.0007	-2.5 to 2.5	Pass
				-20	3.85	1.516	0.0009	-2.5 to 2.5	Pass
				-10	3.85	0.901	0.0005	-2.5 to 2.5	Pass
				0	3.85	1.388	0.0008	-2.5 to 2.5	Pass
				10	3.85	0.944	0.0005	-2.5 to 2.5	Pass
				30	3.85	1.187	0.0007	-2.5 to 2.5	Pass
				40	3.85	0.901	0.0005	-2.5 to 2.5	Pass
				50	3.85	1.760	0.0010	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	0.086	0.0000	-2.5 to 2.5	Pass
					3.85	0.558	0.0003	-2.5 to 2.5	Pass
					4.43	0.629	0.0004	-2.5 to 2.5	Pass
				-30	3.85	0.558	0.0003	-2.5 to 2.5	Pass
				-20	3.85	0.758	0.0004	-2.5 to 2.5	Pass
				-10	3.85	0.286	0.0002	-2.5 to 2.5	Pass
				0	3.85	0.172	0.0001	-2.5 to 2.5	Pass
				10	3.85	0.529	0.0003	-2.5 to 2.5	Pass
				30	3.85	0.758	0.0004	-2.5 to 2.5	Pass
				40	3.85	0.243	0.0001	-2.5 to 2.5	Pass
				50	3.85	0.701	0.0004	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	-2.832	-0.0016	-2.5 to 2.5	Pass
					3.85	-3.233	-0.0019	-2.5 to 2.5	Pass
					4.43	-2.661	-0.0015	-2.5 to 2.5	Pass
				-30	3.85	-2.847	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	-3.719	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	-3.018	-0.0017	-2.5 to 2.5	Pass
				0	3.85	-1.616	-0.0009	-2.5 to 2.5	Pass
				10	3.85	-3.276	-0.0019	-2.5 to 2.5	Pass
				30	3.85	-3.490	-0.0020	-2.5 to 2.5	Pass
				40	3.85	-3.948	-0.0023	-2.5 to 2.5	Pass
				50	3.85	-3.090	-0.0018	-2.5 to 2.5	Pass
16QAM	1720	100	0	20	3.27	1.187	0.0007	-2.5 to 2.5	Pass
					3.85	1.459	0.0008	-2.5 to 2.5	Pass
					4.43	1.788	0.0010	-2.5 to 2.5	Pass
				-30	3.85	2.074	0.0012	-2.5 to 2.5	Pass
				-20	3.85	1.674	0.0010	-2.5 to 2.5	Pass
				-10	3.85	1.416	0.0008	-2.5 to 2.5	Pass
				0	3.85	0.587	0.0003	-2.5 to 2.5	Pass
				10	3.85	1.917	0.0011	-2.5 to 2.5	Pass
				30	3.85	1.760	0.0010	-2.5 to 2.5	Pass
				40	3.85	1.631	0.0009	-2.5 to 2.5	Pass
				50	3.85	2.017	0.0012	-2.5 to 2.5	Pass
	1732.5	100	0	20	3.27	-0.072	0.0000	-2.5 to 2.5	Pass
					3.85	0.429	0.0002	-2.5 to 2.5	Pass
					4.43	1.001	0.0006	-2.5 to 2.5	Pass
				-30	3.85	0.143	0.0001	-2.5 to 2.5	Pass
				-20	3.85	0.358	0.0002	-2.5 to 2.5	Pass
				-10	3.85	0.014	0.0000	-2.5 to 2.5	Pass
				0	3.85	0.815	0.0005	-2.5 to 2.5	Pass
				10	3.85	0.215	0.0001	-2.5 to 2.5	Pass
				30	3.85	0.229	0.0001	-2.5 to 2.5	Pass
				40	3.85	0.958	0.0006	-2.5 to 2.5	Pass
				50	3.85	0.186	0.0001	-2.5 to 2.5	Pass
	1745	100	0	20	3.27	-2.904	-0.0017	-2.5 to 2.5	Pass
					3.85	-2.418	-0.0014	-2.5 to 2.5	Pass
					4.43	-2.232	-0.0013	-2.5 to 2.5	Pass
				-30	3.85	-2.489	-0.0014	-2.5 to 2.5	Pass

FCCID: 2BCUE-P8GLOBAL

				-20	3.85	-2.503	-0.0014	-2.5 to 2.5	Pass
				-10	3.85	-3.462	-0.0020	-2.5 to 2.5	Pass
				0	3.85	-2.618	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-1.988	-0.0011	-2.5 to 2.5	Pass
				30	3.85	-3.276	-0.0019	-2.5 to 2.5	Pass
				40	3.85	-1.960	-0.0011	-2.5 to 2.5	Pass
				50	3.85	-3.605	-0.0021	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B4_1.4MHz

Band: 4 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	6	0	Refer To Test Graph		Pass
16QAM	1732.5	6	0	Refer To Test Graph		Pass

3.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	15	0	Refer To Test Graph		Pass
16QAM	1732.5	15	0	Refer To Test Graph		Pass

3.1.3 B4_5MHz

Band: 4 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	25	0	Refer To Test Graph		Pass
16QAM	1732.5	25	0	Refer To Test Graph		Pass

3.1.4 B4_10MHz

Band: 4 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	50	0	Refer To Test Graph		Pass
16QAM	1732.5	50	0	Refer To Test Graph		Pass

3.1.5 B4_15MHz

Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	75	0	Refer To Test Graph		Pass
16QAM	1732.5	75	0	Refer To Test Graph		Pass

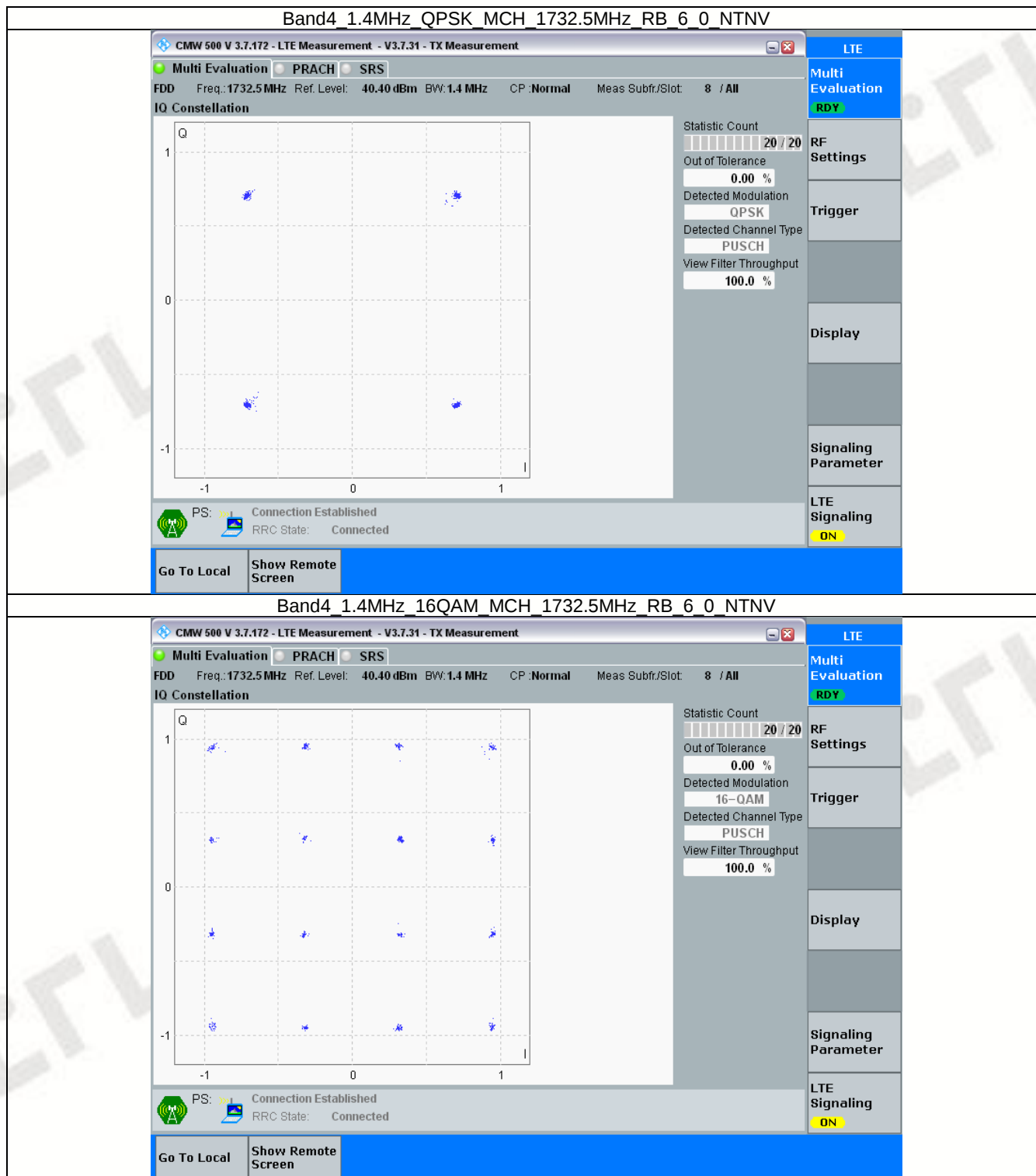
3.1.6 B4_20MHz

Band: 4 / Bandwidth: 20MHz / NTN					
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics	Verdict
		Size	Offset	Result	Limit
QPSK	1732.5	100	0	Refer To Test Graph	Pass
16QAM	1732.5	100	0	Refer To Test Graph	Pass

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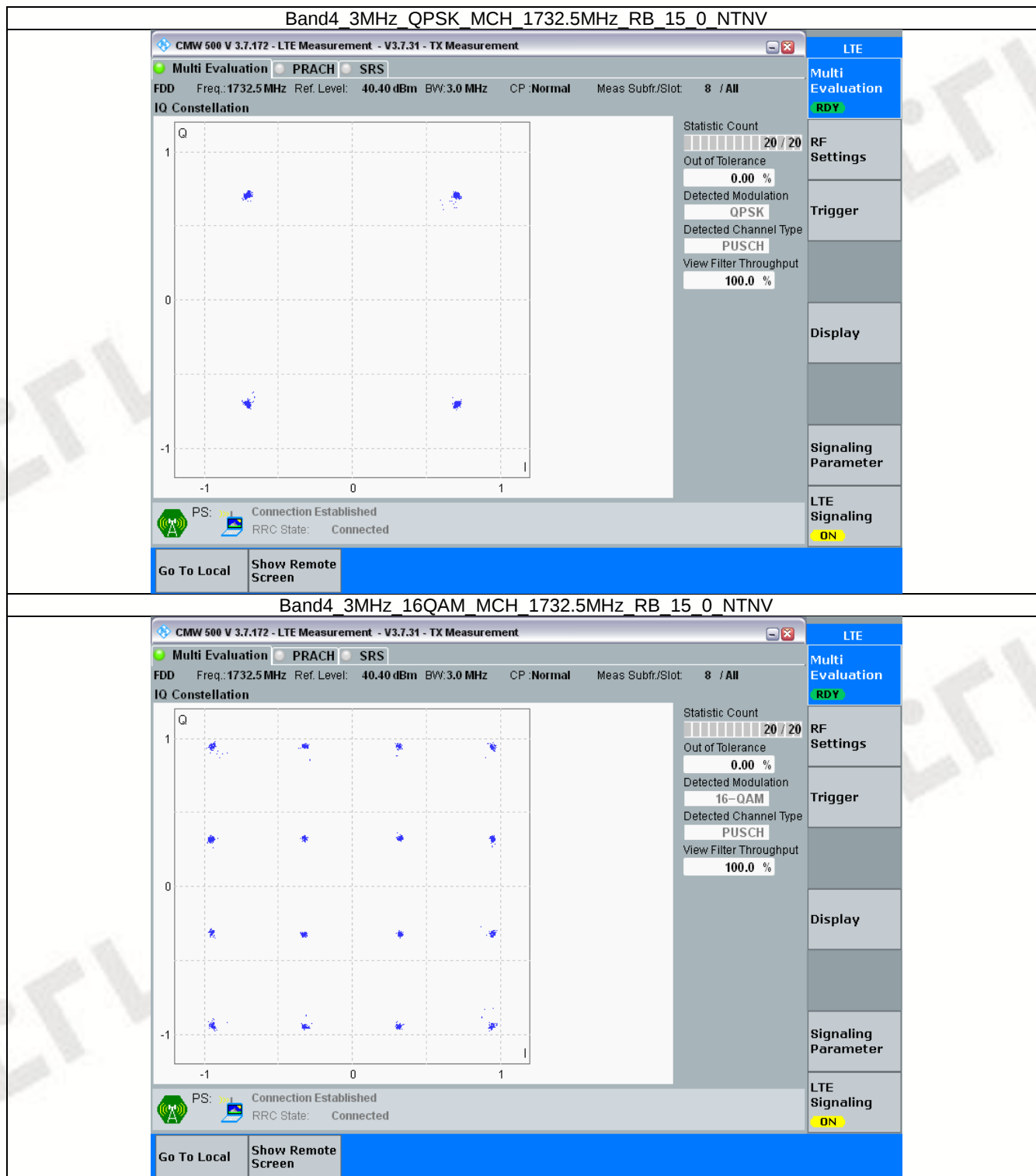
3.2 Test Graph

3.2.1 B4_1.4MHz



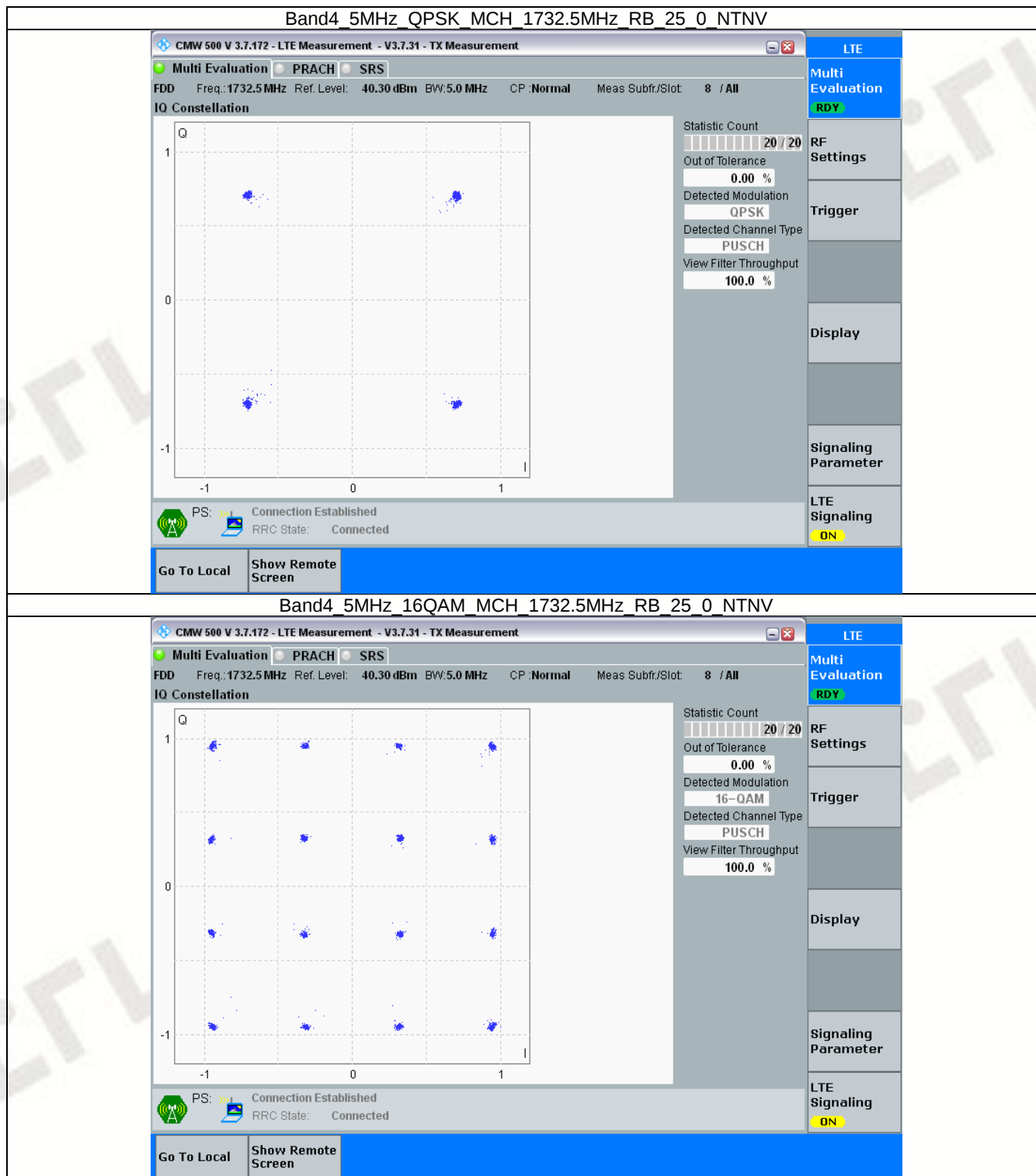
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3.2.2 B4_3MHz



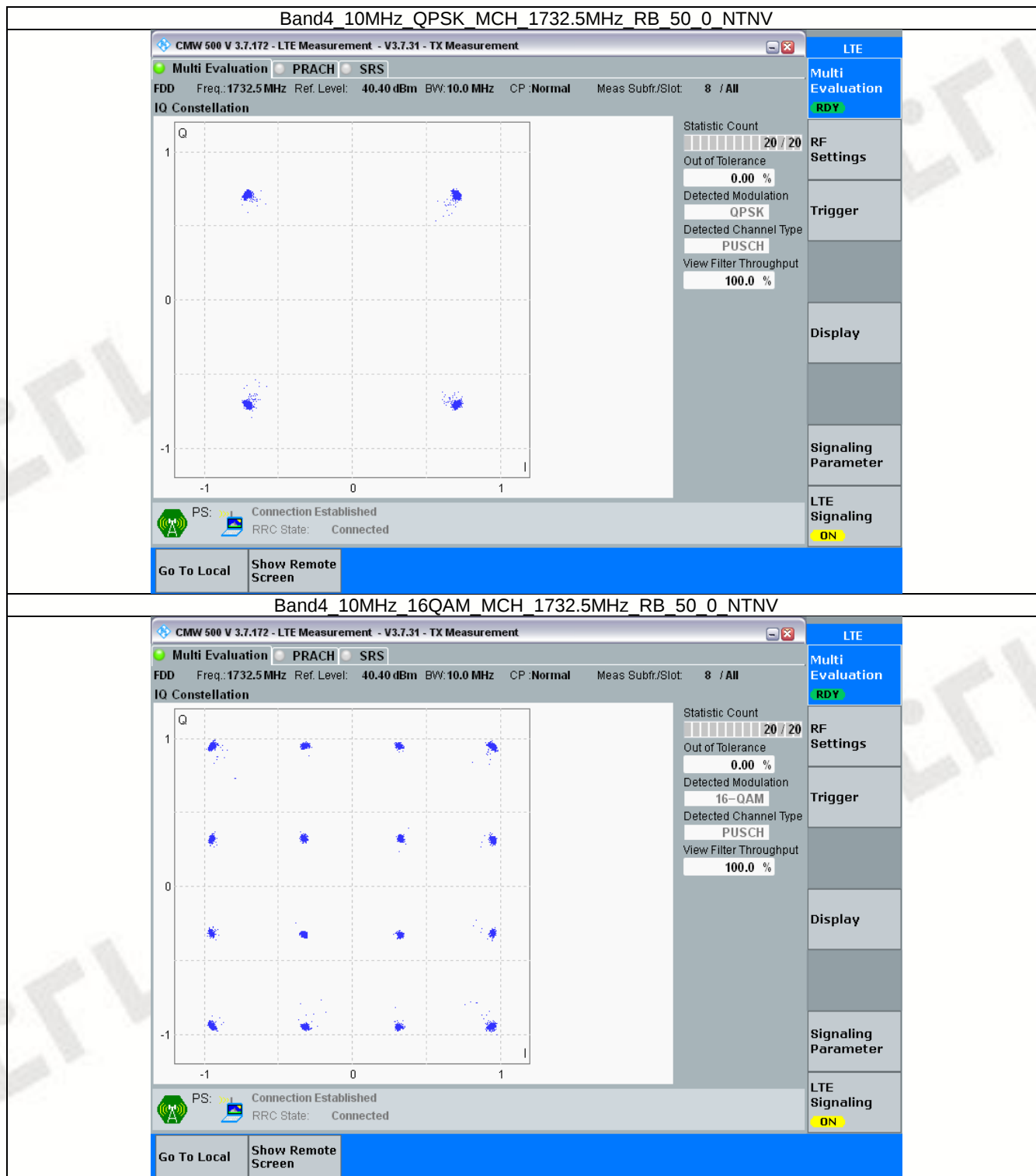
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3.2.3 B4_5MHz



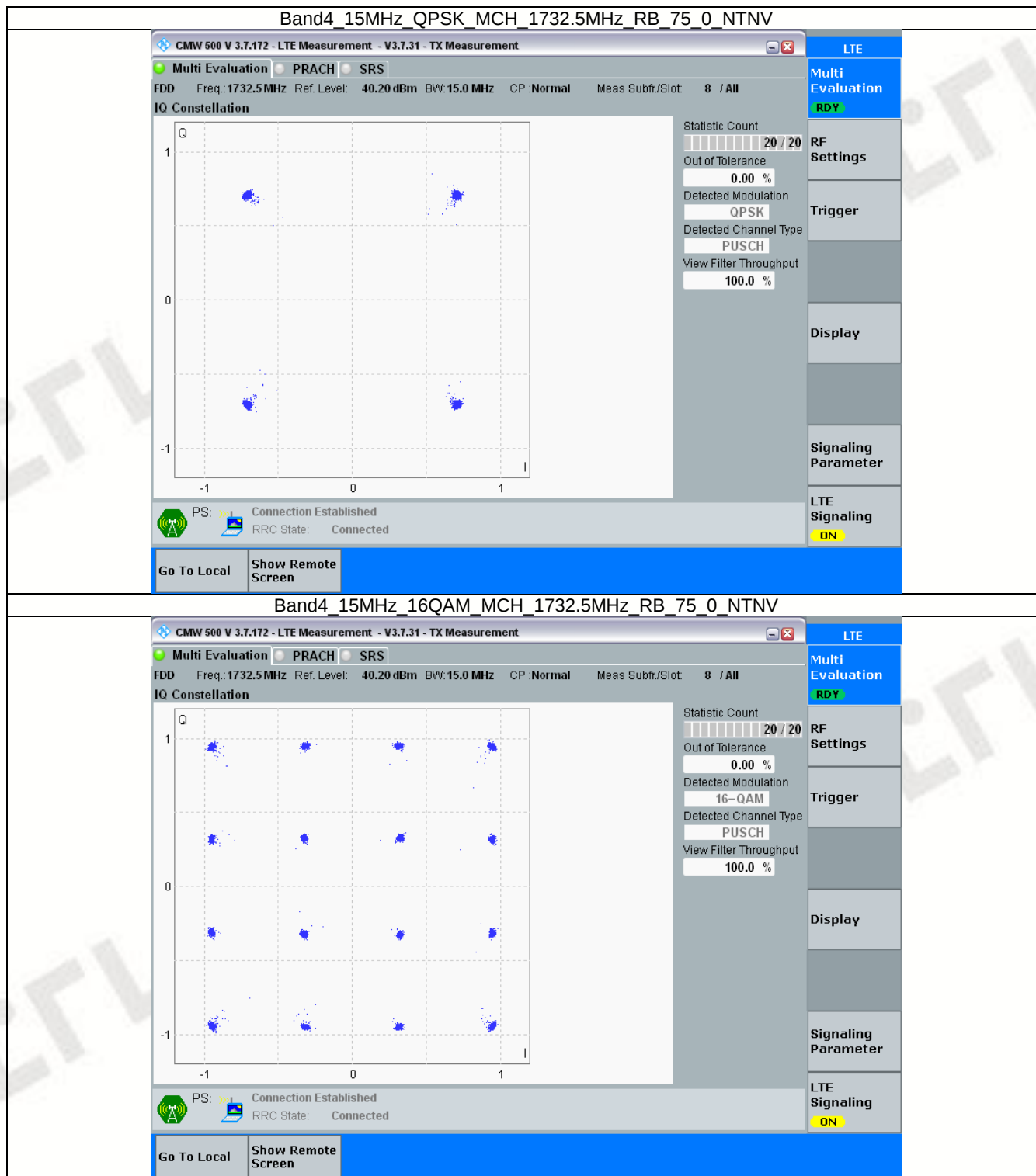
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3.2.4 B4_10MHz



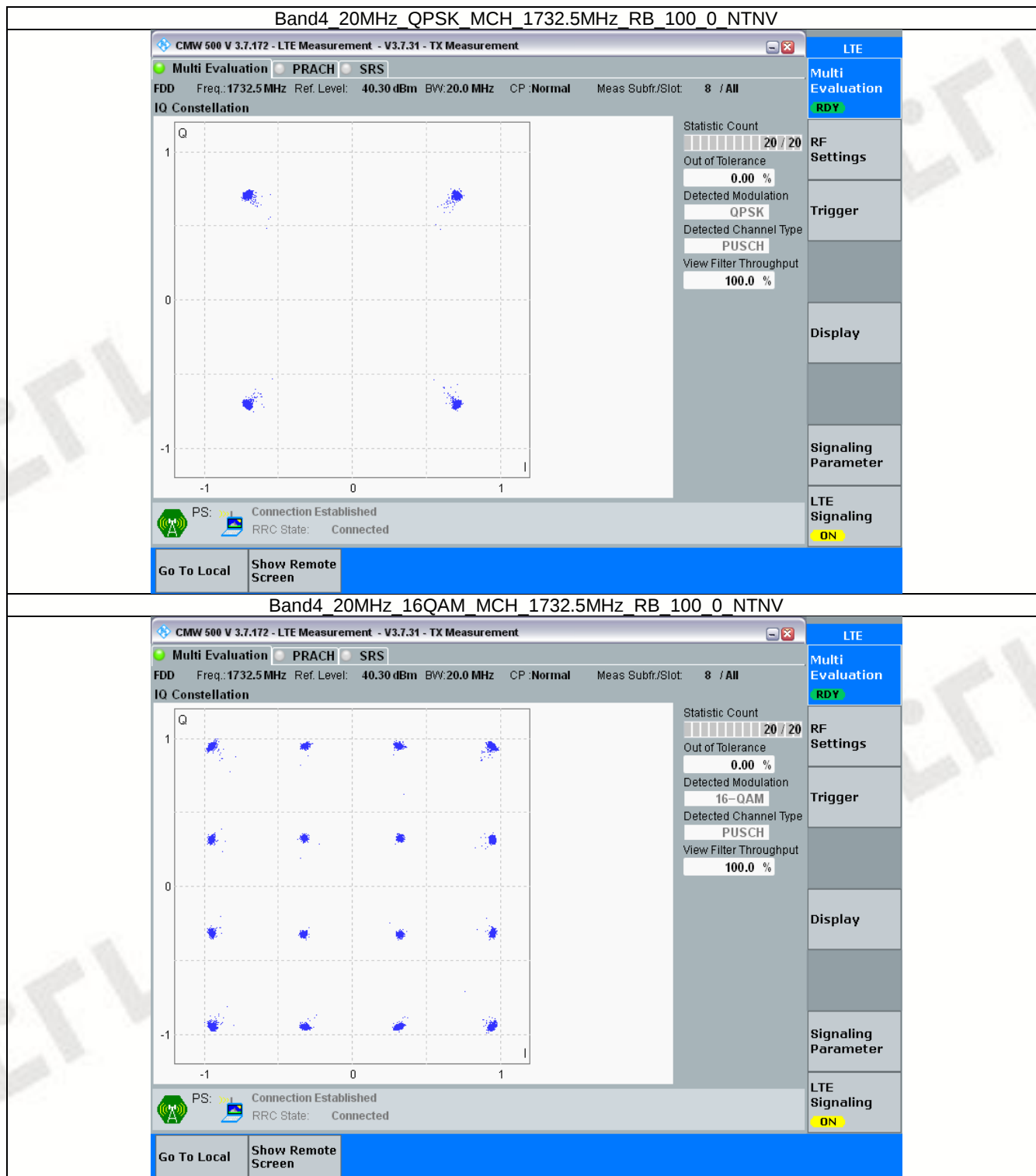
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3.2.5 B4_15MHz



FCCID: 2BCUE-P8GLOBAL

3.2.6 B4_20MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band4_OBW

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.118	/	Pass
		1732.5	6	0	1.114	/	Pass
		1754.3	6	0	1.115	/	Pass
	16QAM	1710.7	6	0	1.113	/	Pass
		1732.5	6	0	1.113	/	Pass
		1754.3	6	0	1.115	/	Pass
3	QPSK	1711.5	15	0	2.735	/	Pass
		1732.5	15	0	2.744	/	Pass
		1753.5	15	0	2.734	/	Pass
	16QAM	1711.5	15	0	2.725	/	Pass
		1732.5	15	0	2.734	/	Pass
		1753.5	15	0	2.737	/	Pass
5	QPSK	1712.5	25	0	4.568	/	Pass
		1732.5	25	0	4.550	/	Pass
		1752.5	25	0	4.557	/	Pass
	16QAM	1712.5	25	0	4.538	/	Pass
		1732.5	25	0	4.560	/	Pass
		1752.5	25	0	4.567	/	Pass
10	QPSK	1715	50	0	9.064	/	Pass
		1732.5	50	0	9.021	/	Pass
		1750	50	0	9.025	/	Pass
	16QAM	1715	50	0	9.047	/	Pass
		1732.5	50	0	9.035	/	Pass
		1750	50	0	9.023	/	Pass
15	QPSK	1717.5	75	0	13.566	/	Pass
		1732.5	75	0	13.509	/	Pass
		1747.5	75	0	13.531	/	Pass
	16QAM	1717.5	75	0	13.568	/	Pass
		1732.5	75	0	13.534	/	Pass
		1747.5	75	0	13.539	/	Pass
20	QPSK	1720	100	0	18.073	/	Pass
		1732.5	100	0	18.012	/	Pass
		1745	100	0	18.027	/	Pass
	16QAM	1720	100	0	18.049	/	Pass
		1732.5	100	0	18.045	/	Pass
		1745	100	0	18.014	/	Pass

4.1.2 Band4_XDB

Band: 4 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1710.7	6	0	1.324	/	Pass

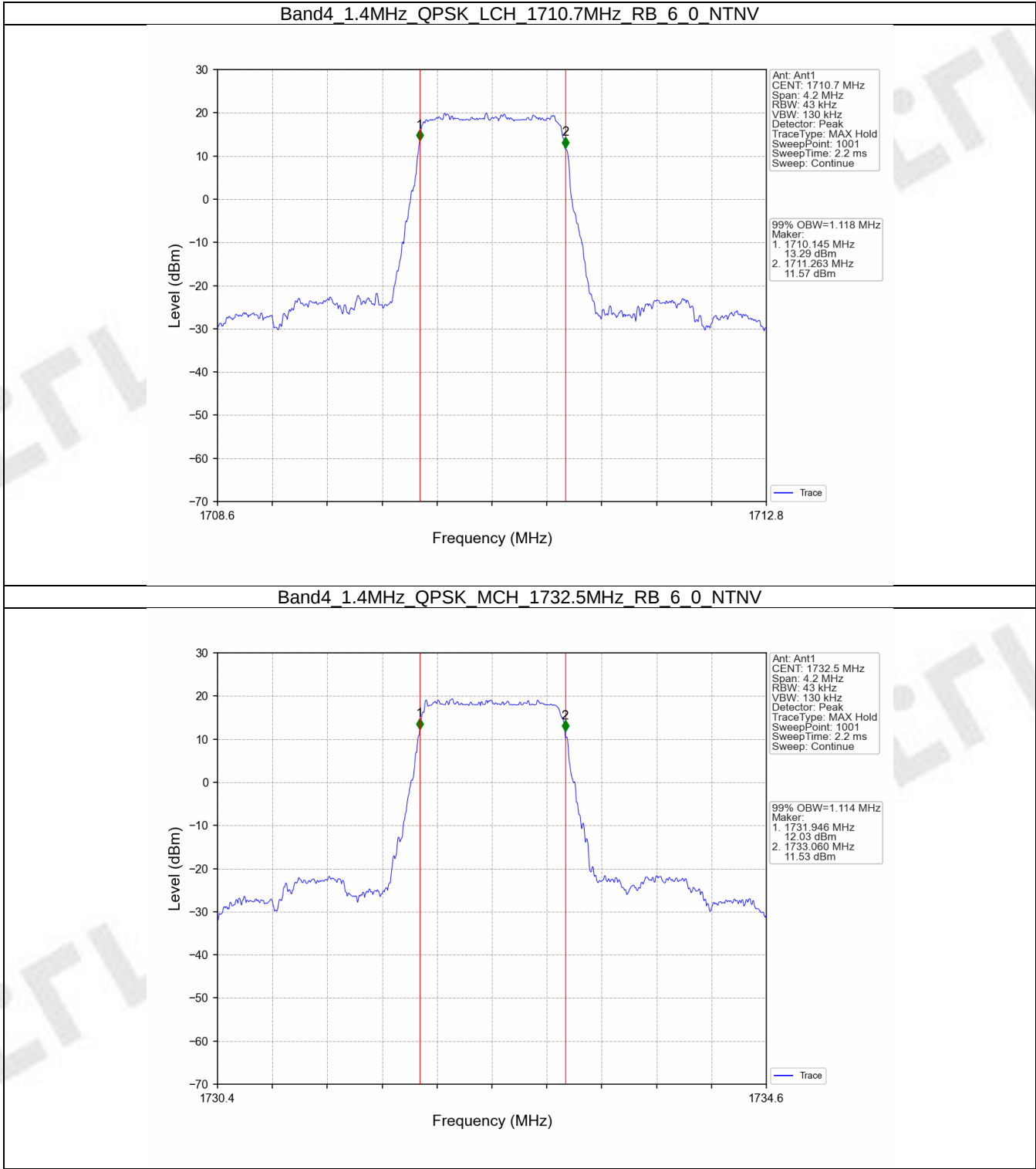
FCCID: 2BCUE-P8GLOBAL

	16QAM	1732.5	6	0	1.316	/	Pass
		1754.3	6	0	1.331	/	Pass
		1710.7	6	0	1.324	/	Pass
		1732.5	6	0	1.297	/	Pass
		1754.3	6	0	1.340	/	Pass
3	QPSK	1711.5	15	0	3.045	/	Pass
		1732.5	15	0	3.055	/	Pass
		1753.5	15	0	3.050	/	Pass
	16QAM	1711.5	15	0	3.040	/	Pass
		1732.5	15	0	3.030	/	Pass
		1753.5	15	0	3.084	/	Pass
5	QPSK	1712.5	25	0	5.108	/	Pass
		1732.5	25	0	5.045	/	Pass
		1752.5	25	0	5.096	/	Pass
	16QAM	1712.5	25	0	5.102	/	Pass
		1732.5	25	0	5.092	/	Pass
		1752.5	25	0	5.090	/	Pass
10	QPSK	1715	50	0	10.084	/	Pass
		1732.5	50	0	10.014	/	Pass
		1750	50	0	10.046	/	Pass
	16QAM	1715	50	0	10.053	/	Pass
		1732.5	50	0	9.983	/	Pass
		1750	50	0	9.949	/	Pass
15	QPSK	1717.5	75	0	15.070	/	Pass
		1732.5	75	0	14.921	/	Pass
		1747.5	75	0	14.920	/	Pass
	16QAM	1717.5	75	0	15.063	/	Pass
		1732.5	75	0	14.947	/	Pass
		1747.5	75	0	14.988	/	Pass
20	QPSK	1720	100	0	19.787	/	Pass
		1732.5	100	0	19.753	/	Pass
		1745	100	0	19.667	/	Pass
	16QAM	1720	100	0	19.829	/	Pass
		1732.5	100	0	19.730	/	Pass
		1745	100	0	19.739	/	Pass

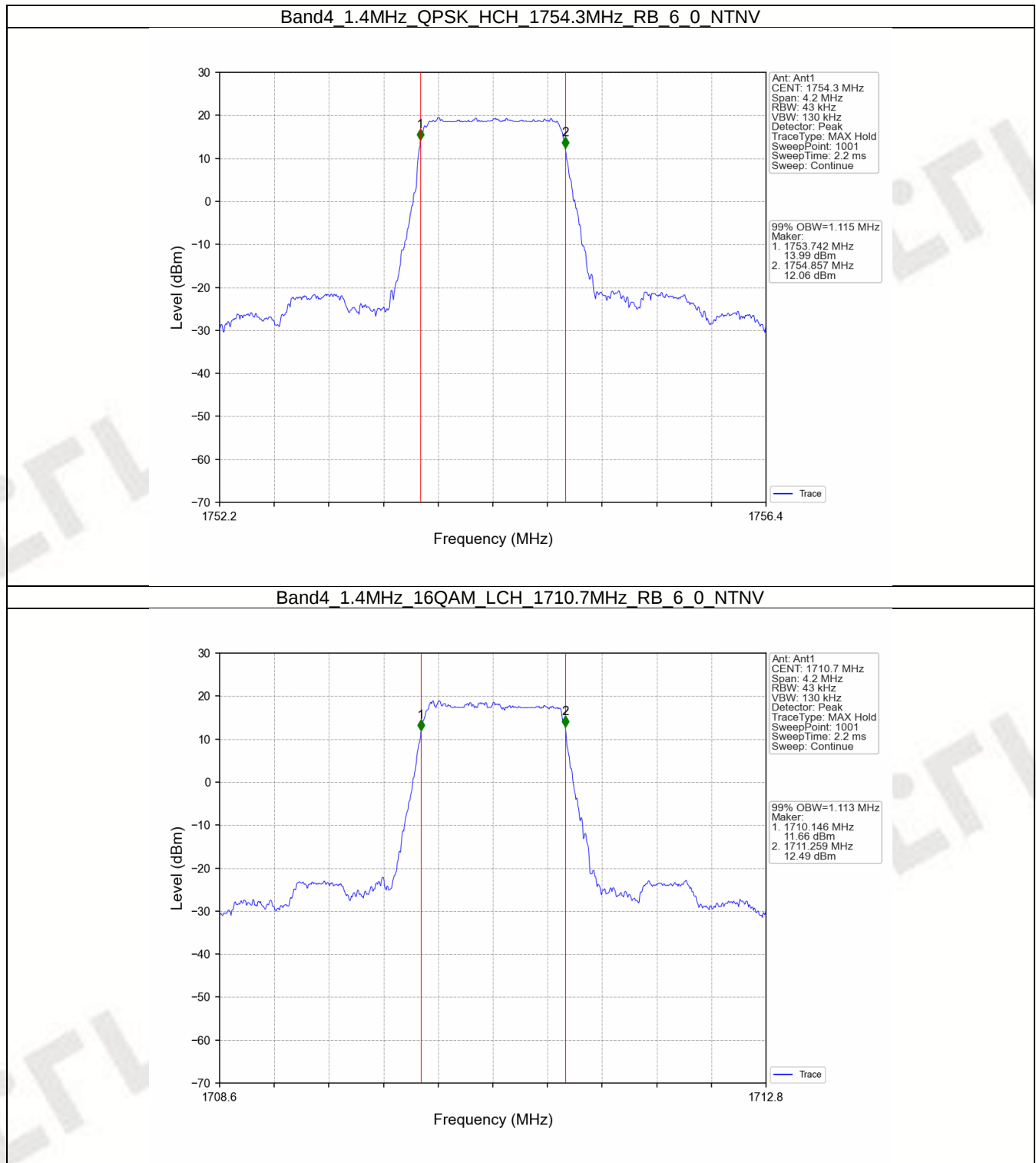
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4.2 Test Graph

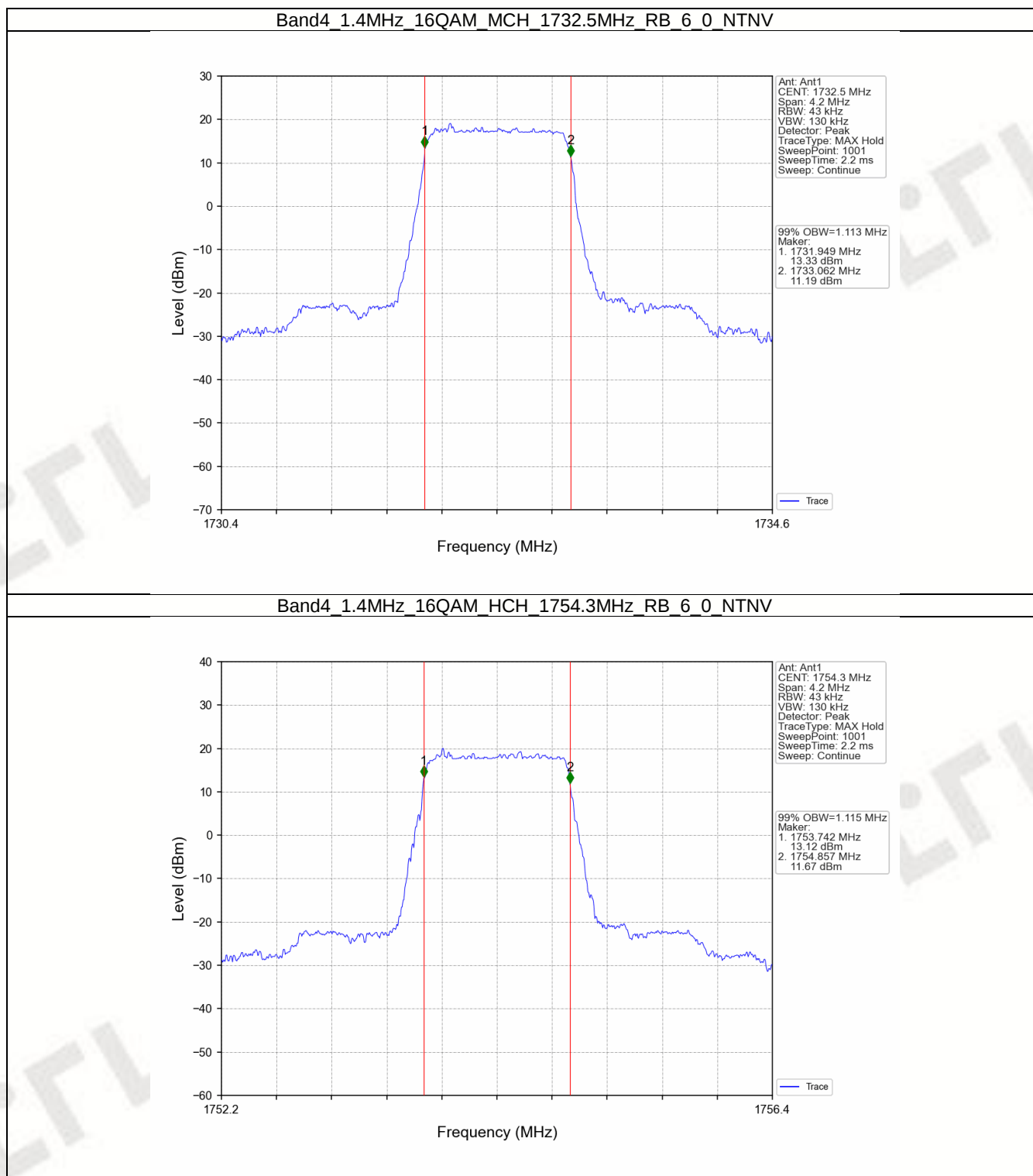
4.2.1 Band4_OBW



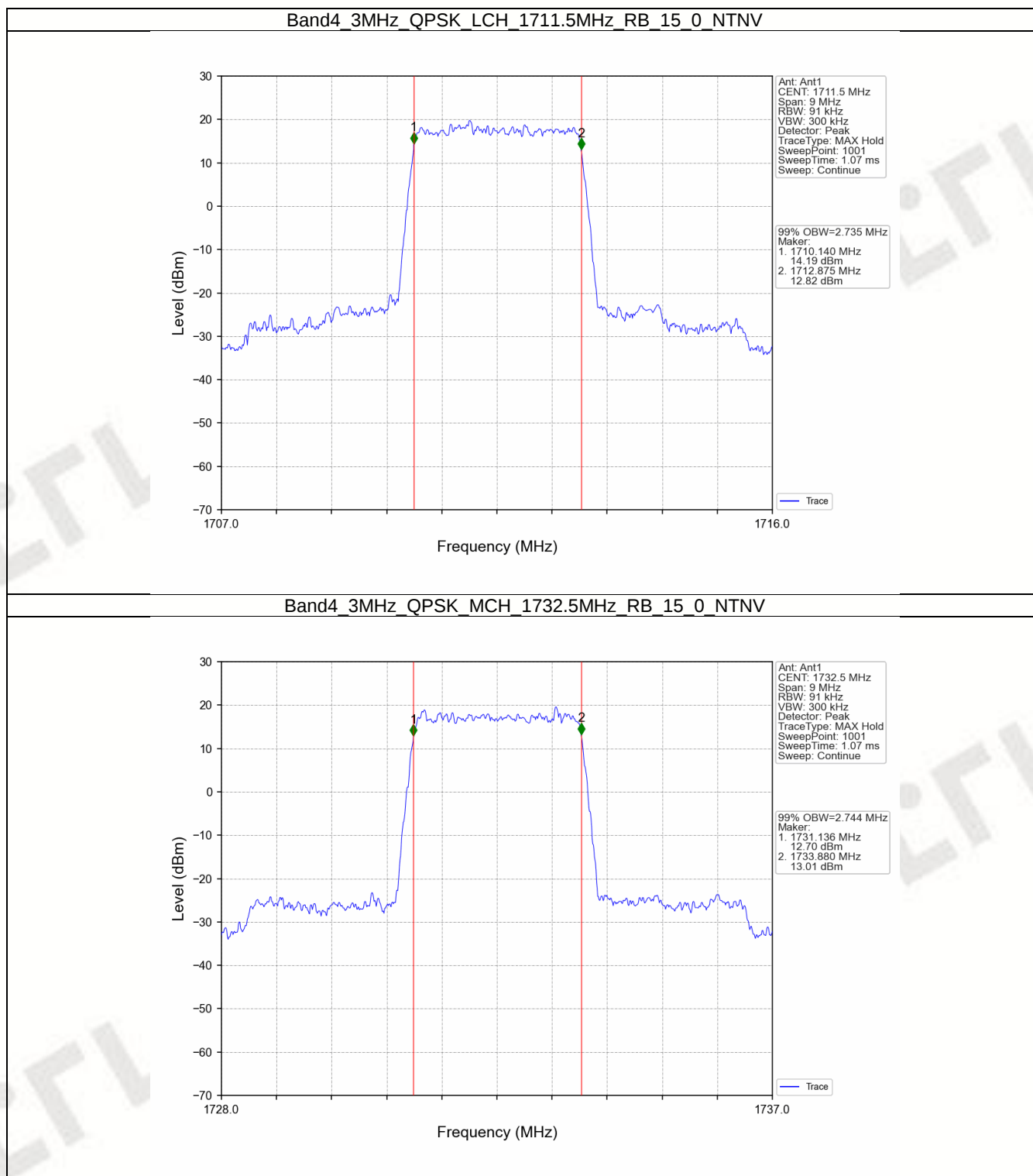
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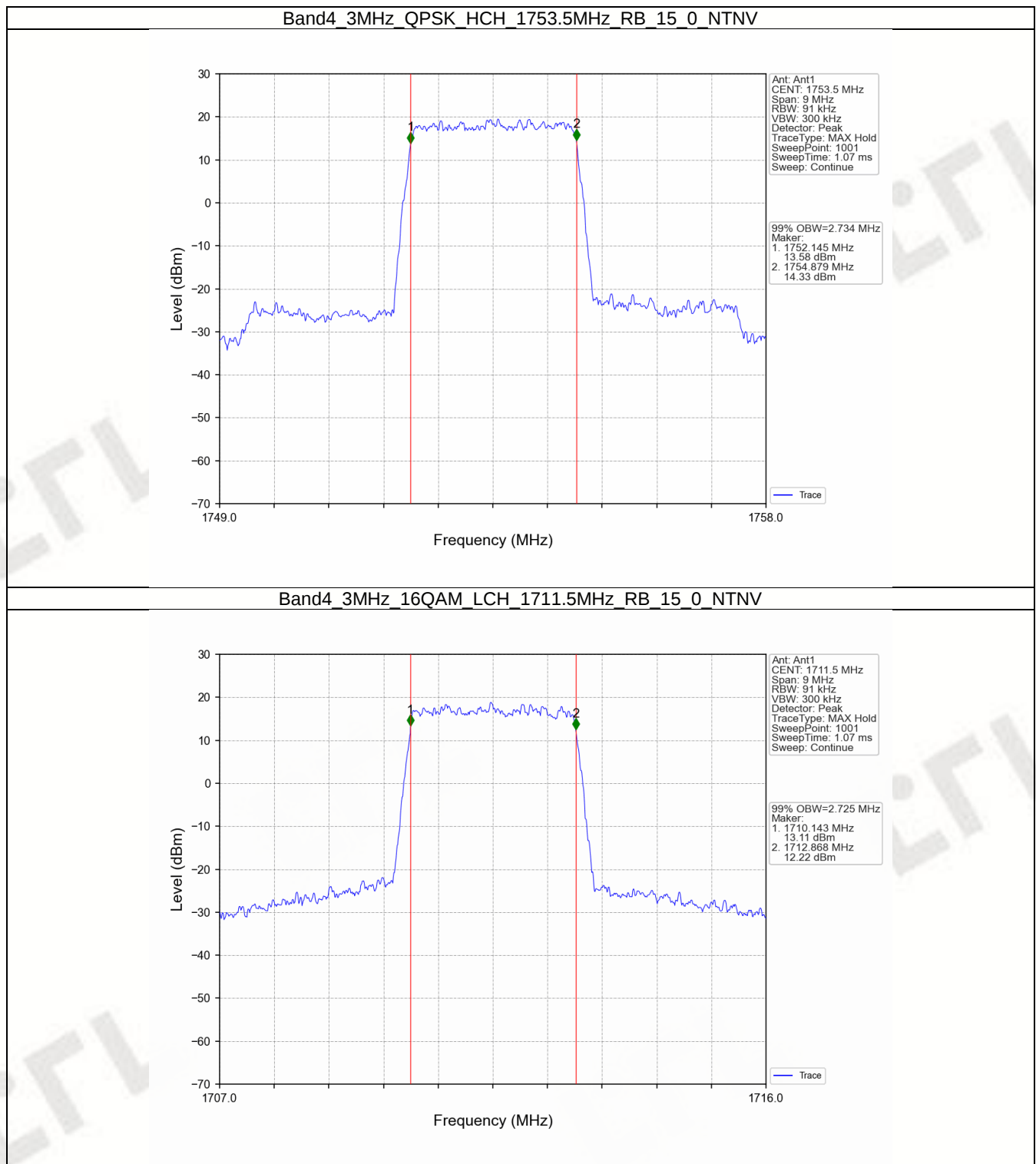
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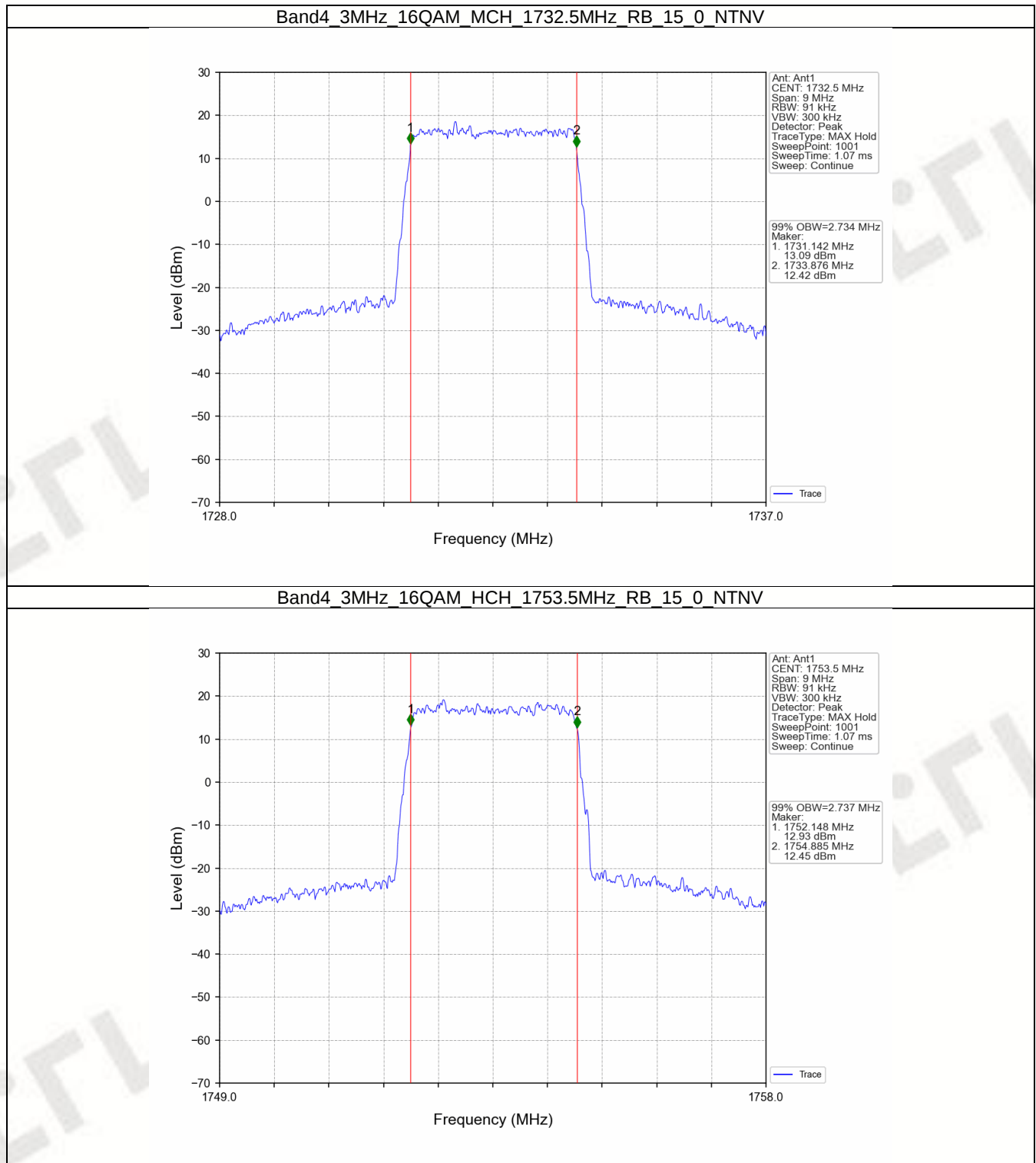
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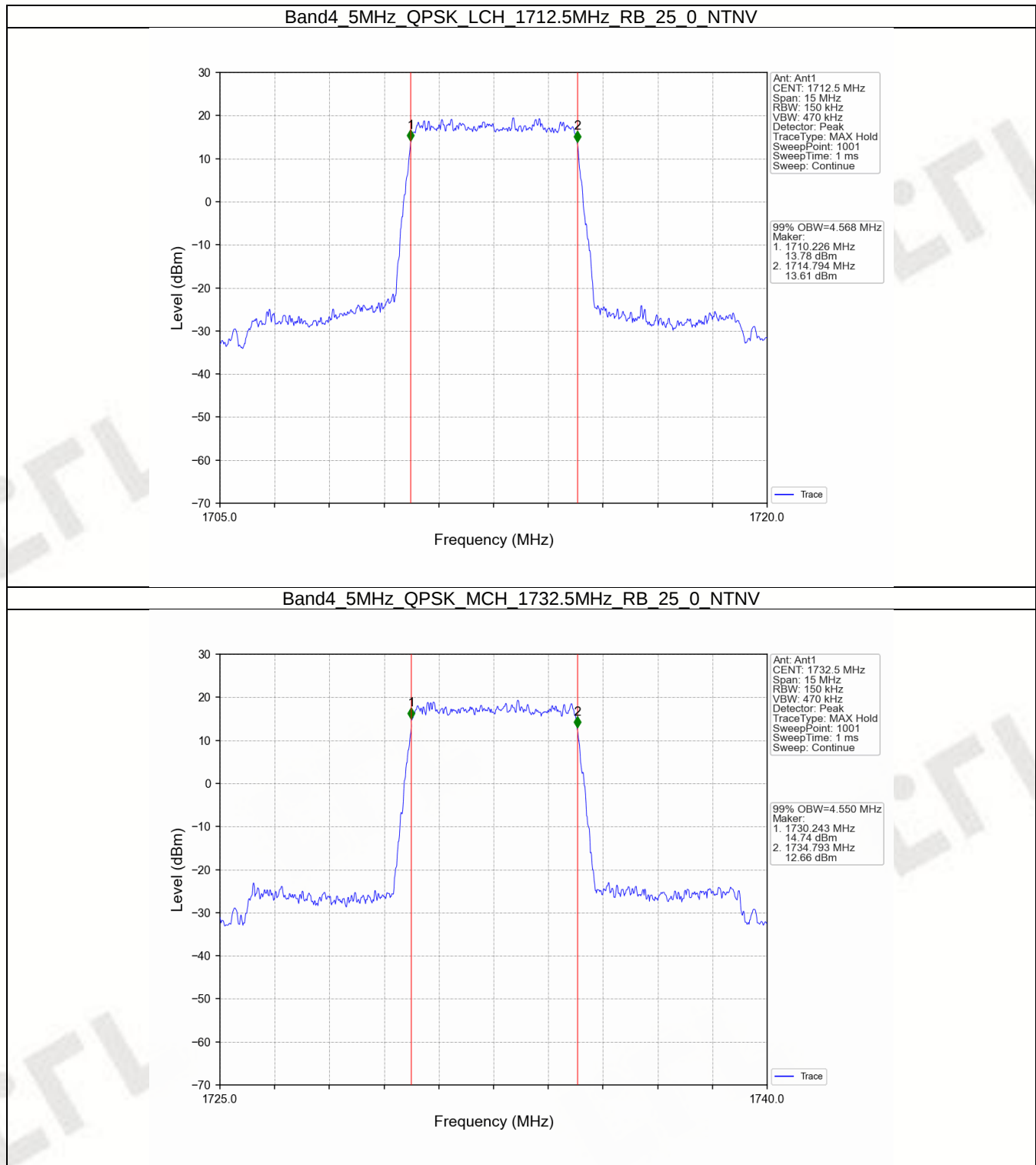
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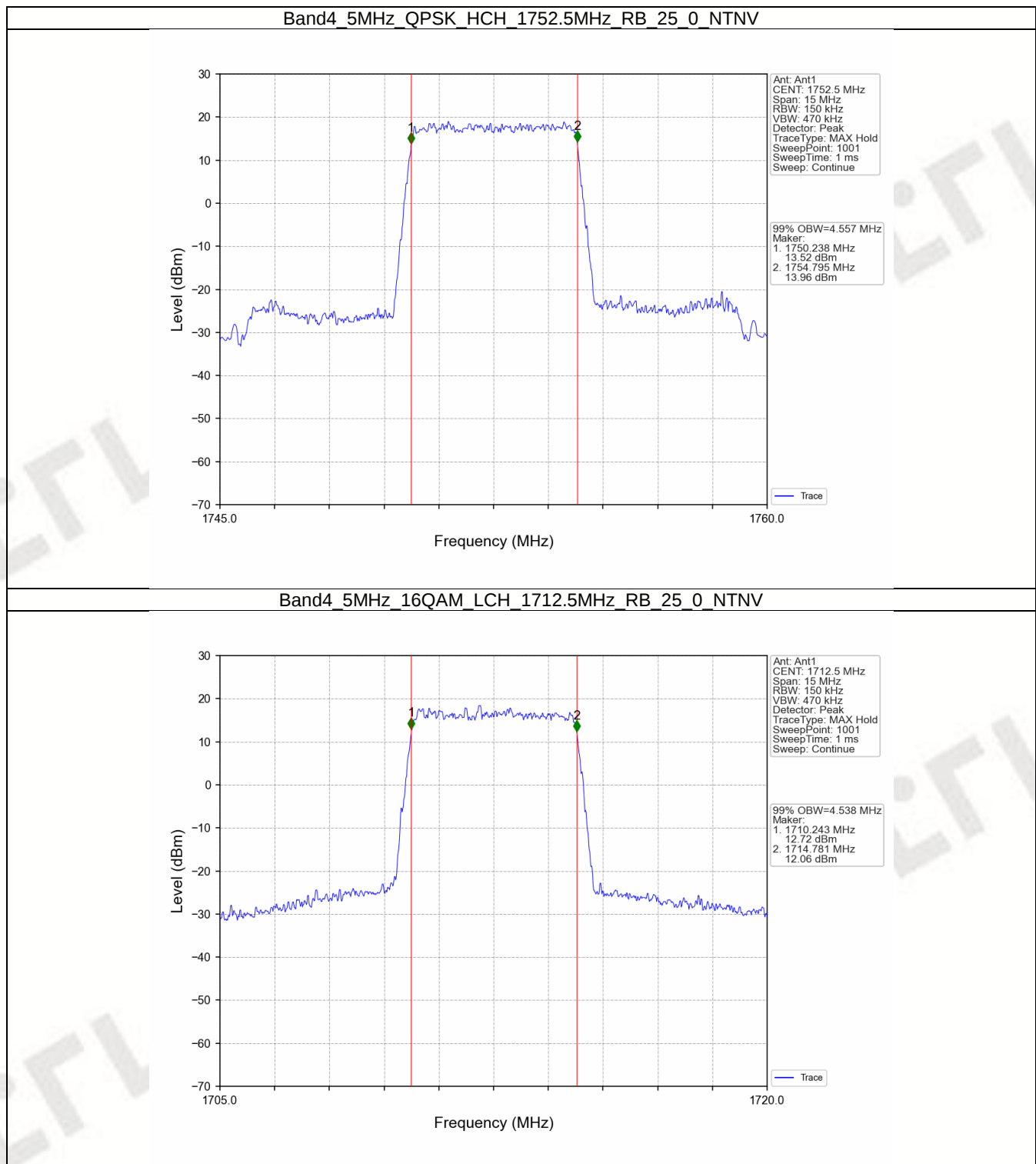
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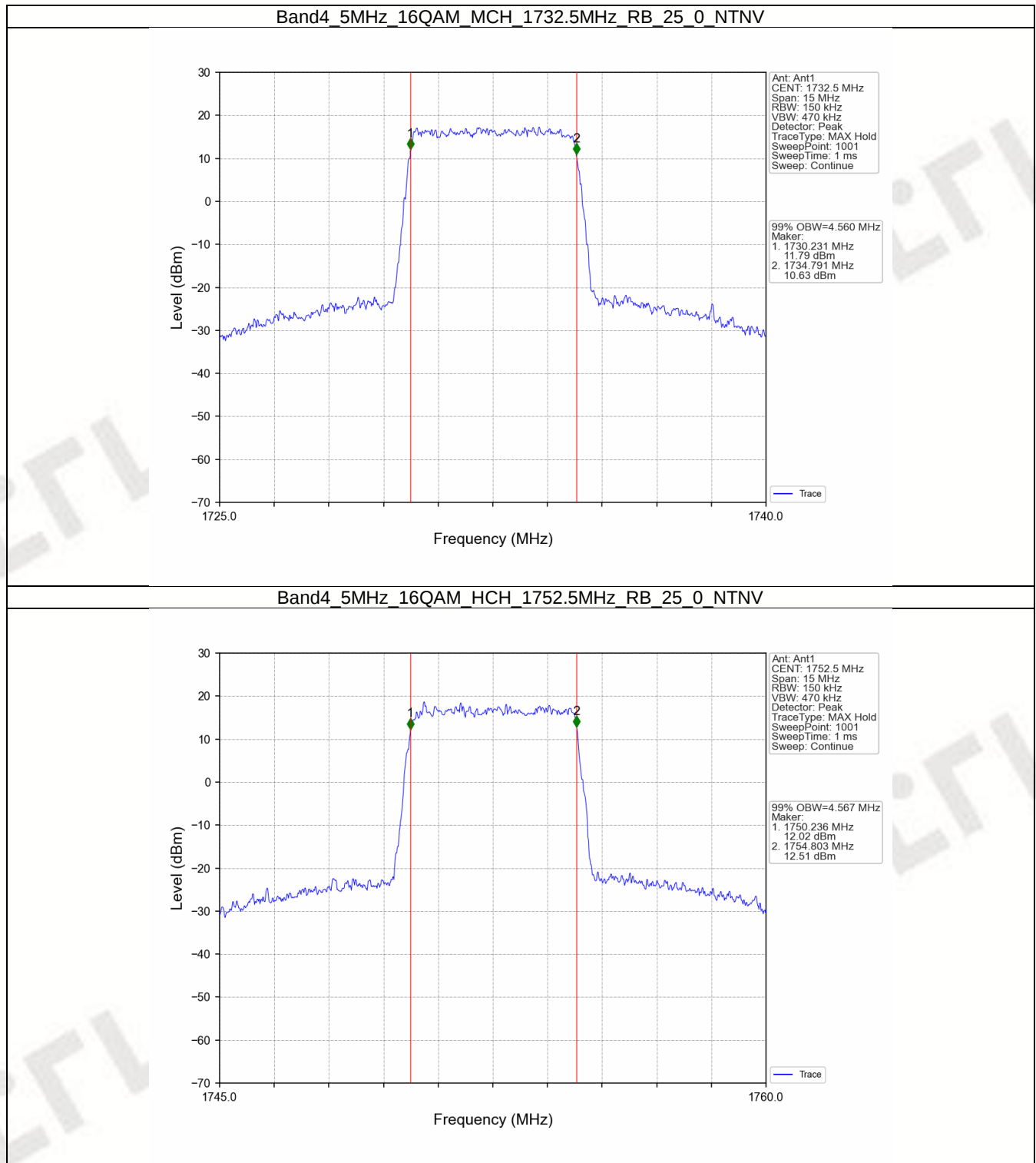
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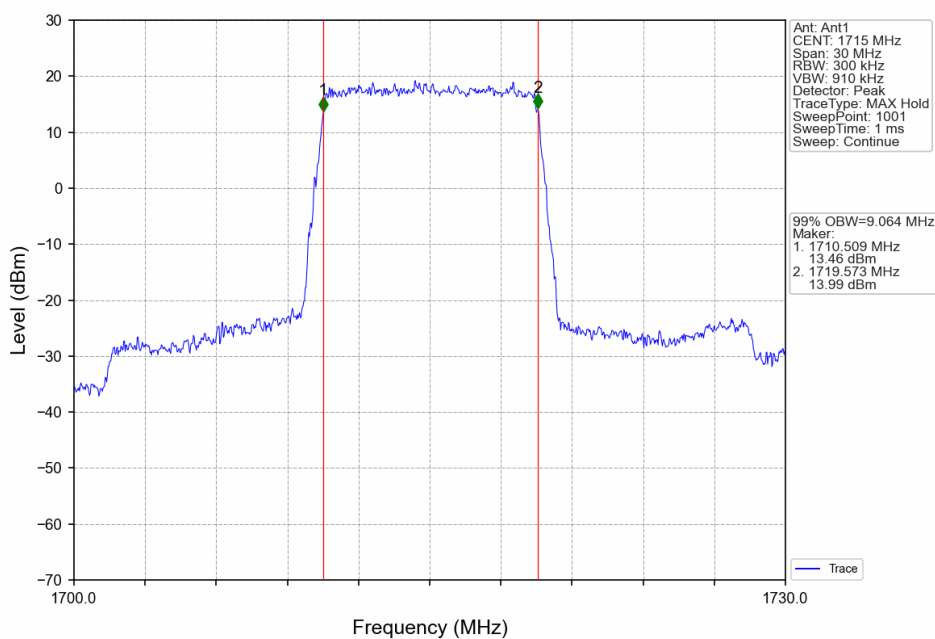


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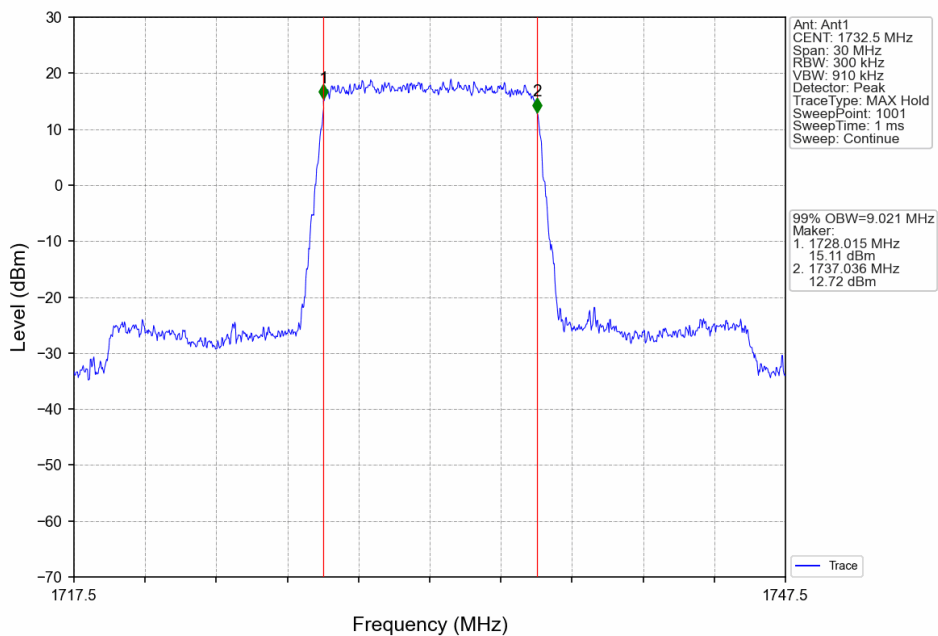


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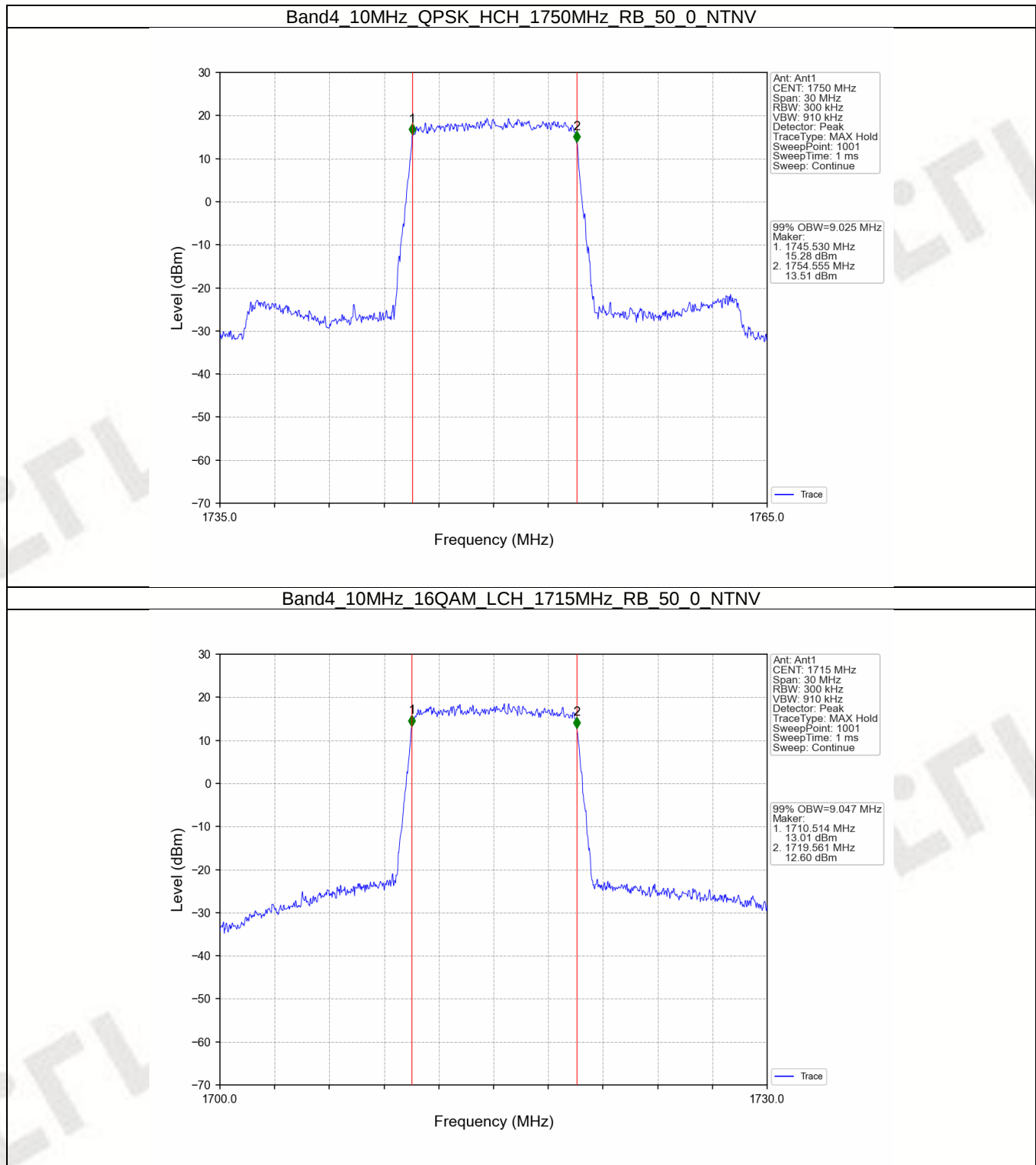
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



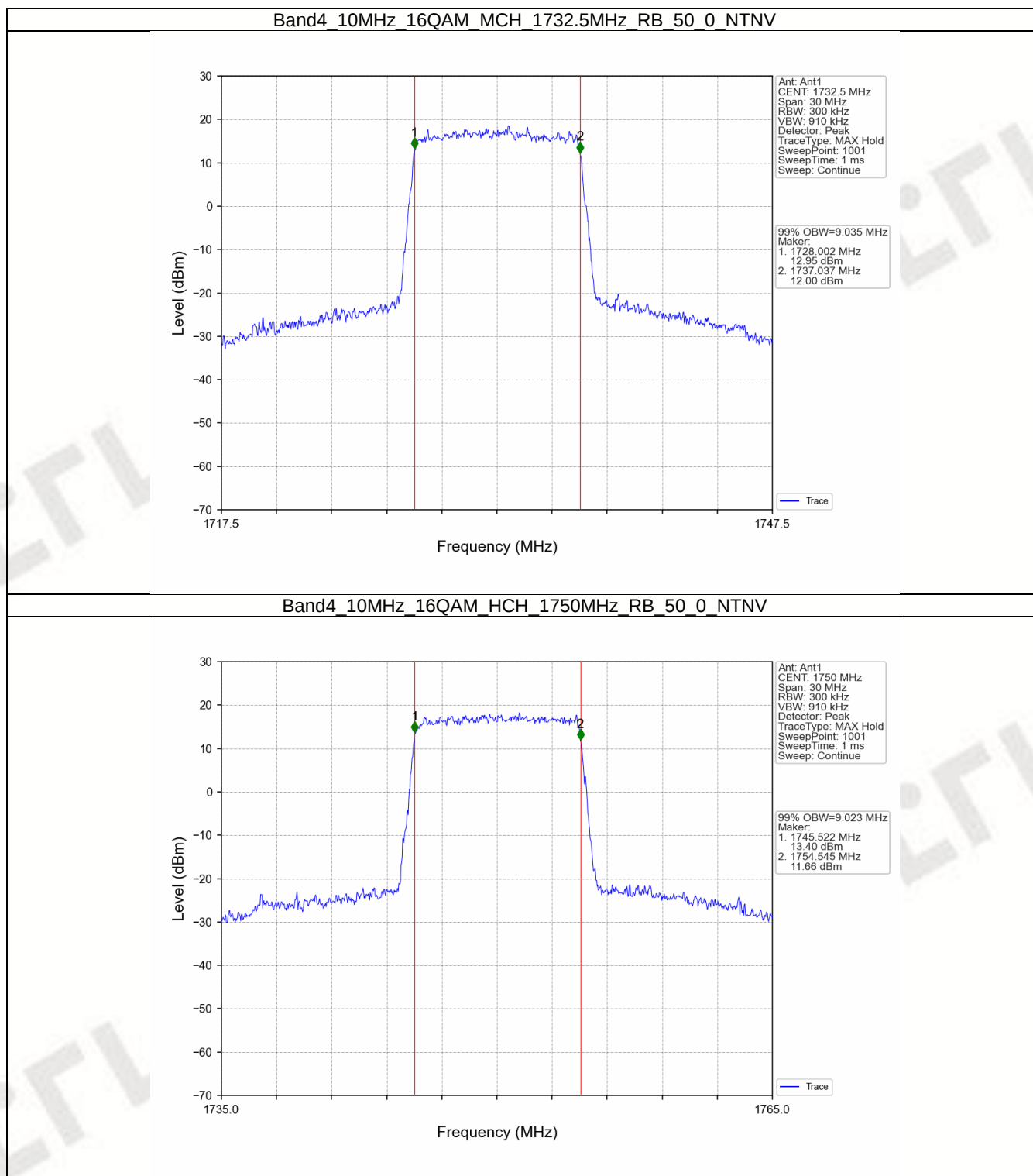
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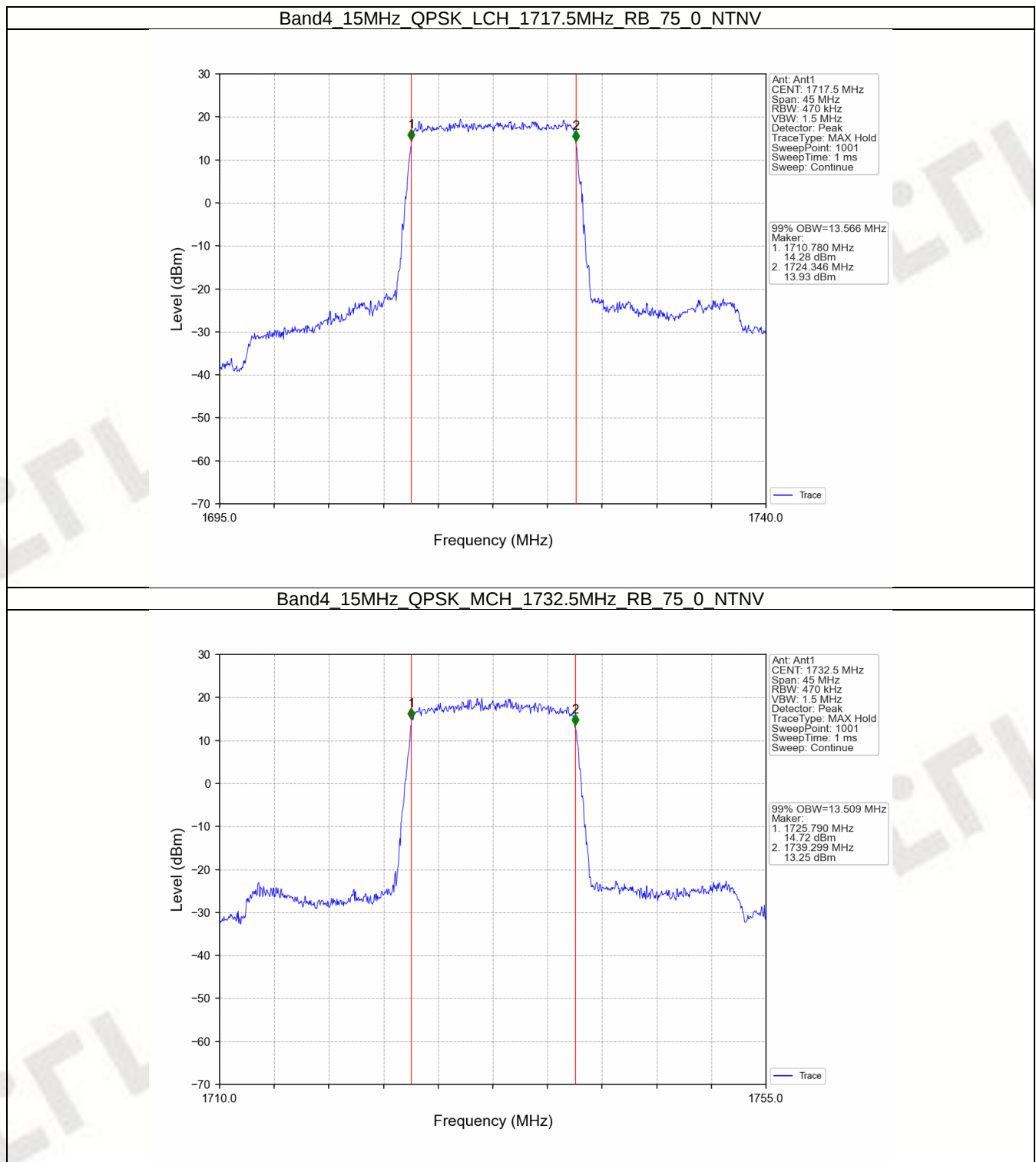
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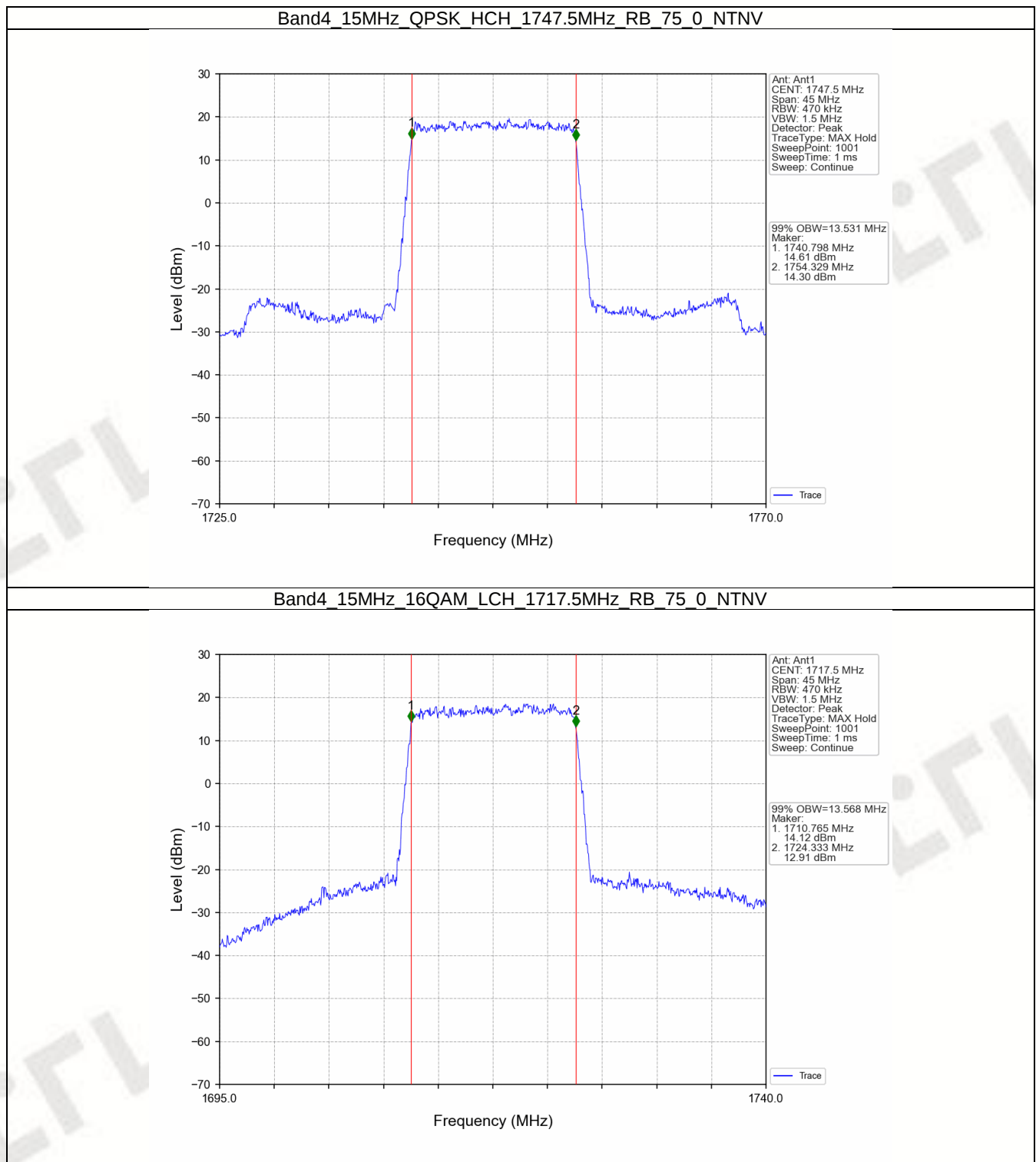
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FCCID: 2BCUE-P8GLOBAL

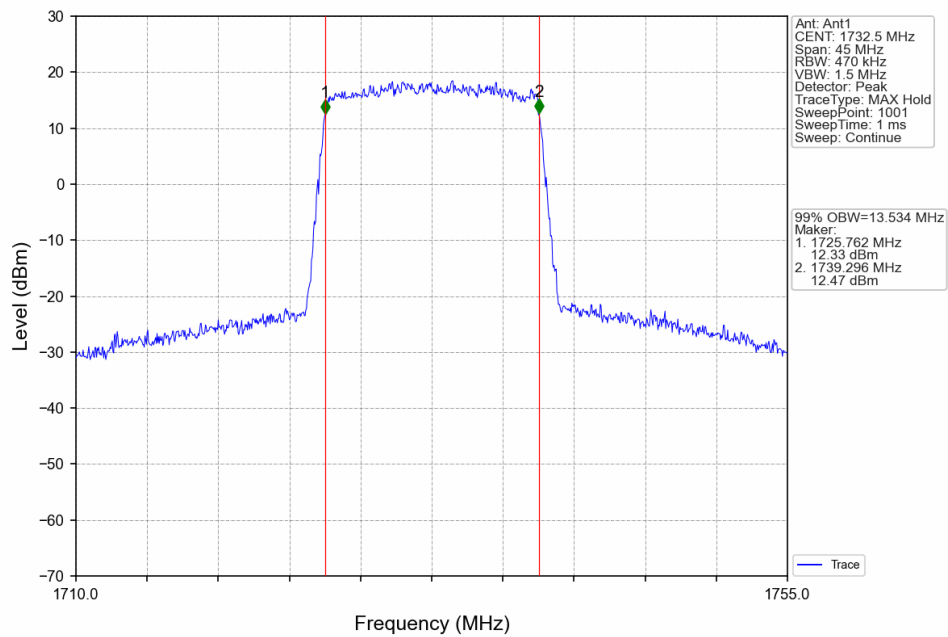


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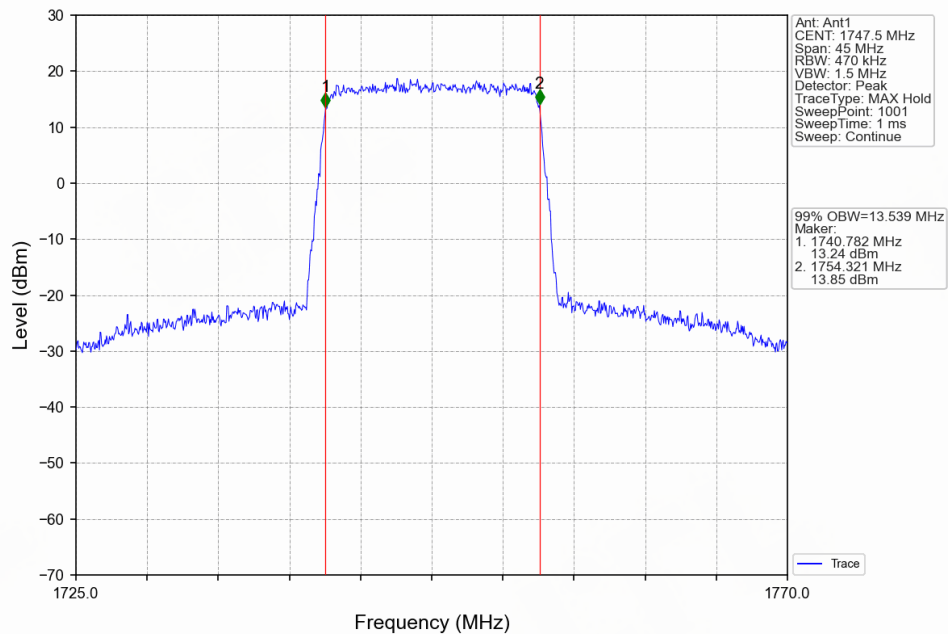


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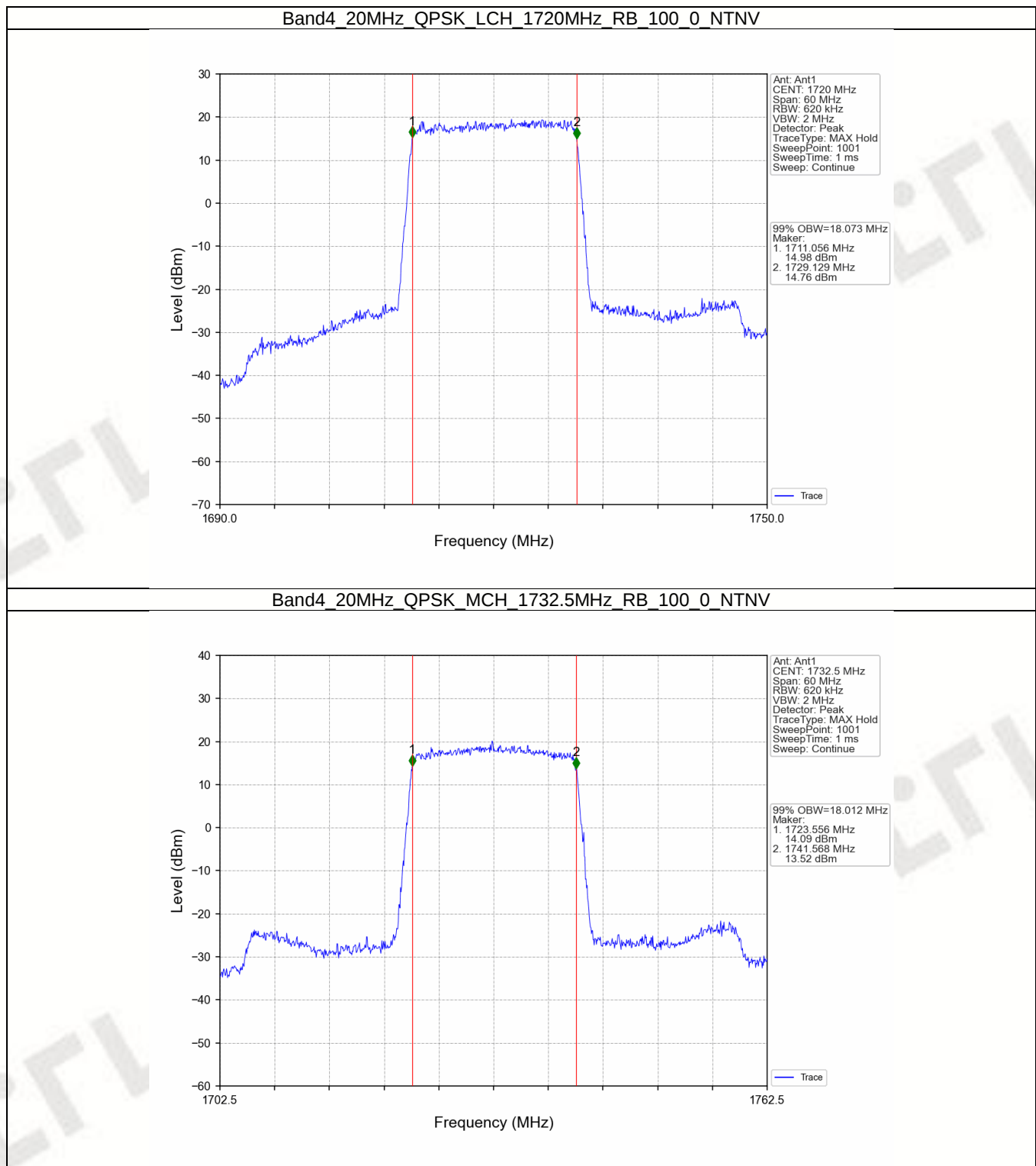
Band4_15MHz_16QAM_MCH_1732.5MHz_RB_75_0_NTNV



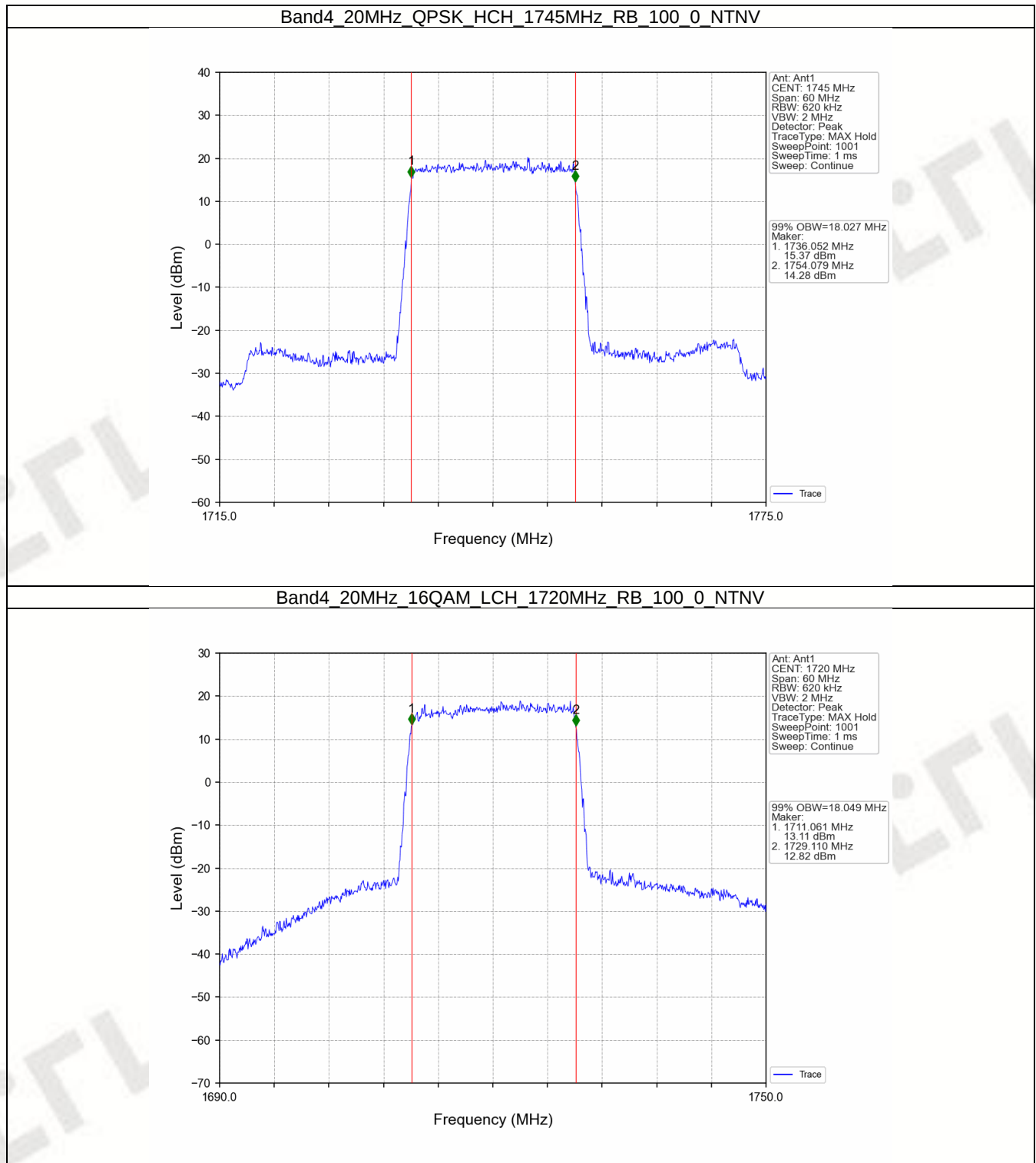
Band4_15MHz_16QAM_HCH_1747.5MHz_RB_75_0_NTNV



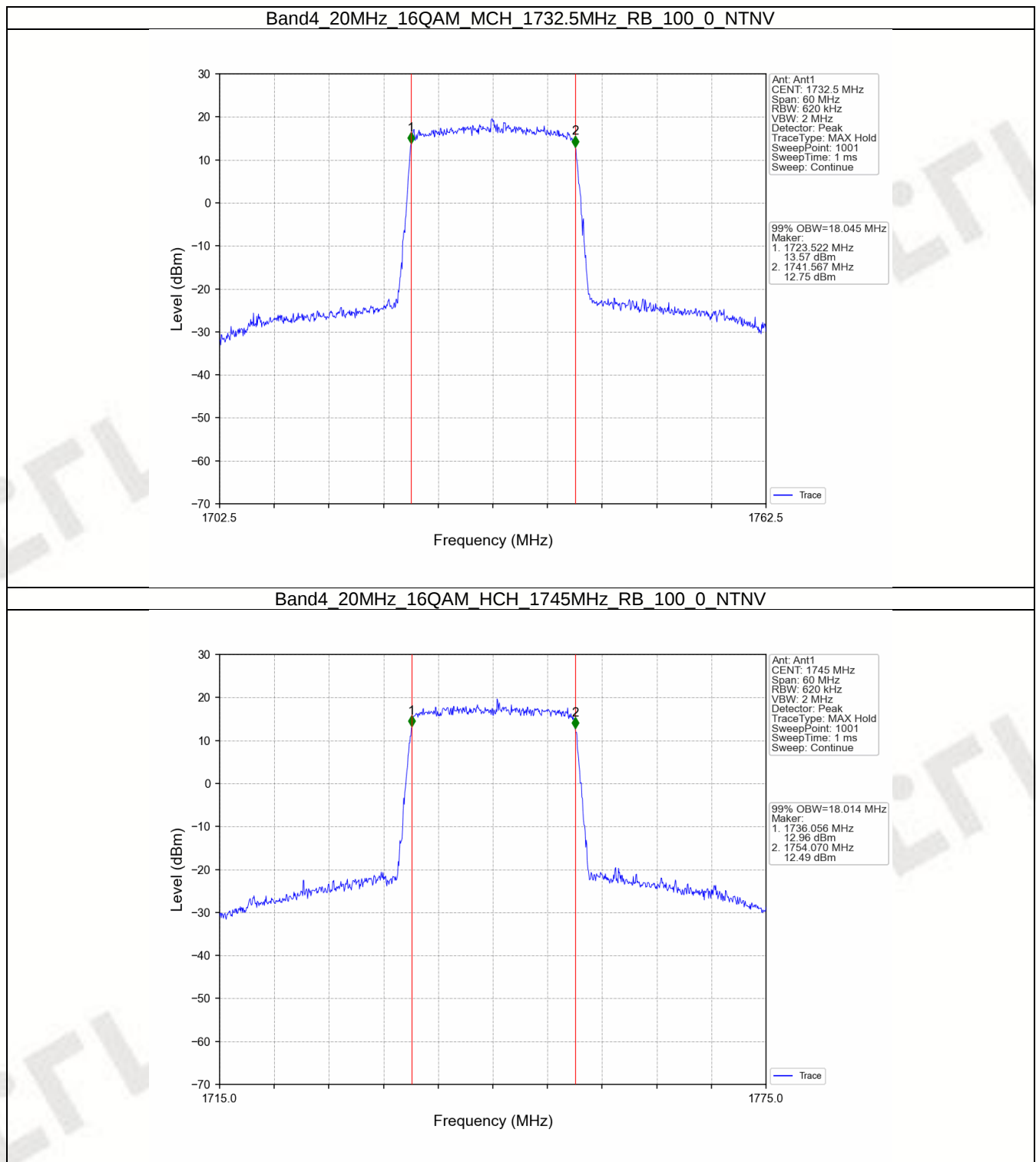
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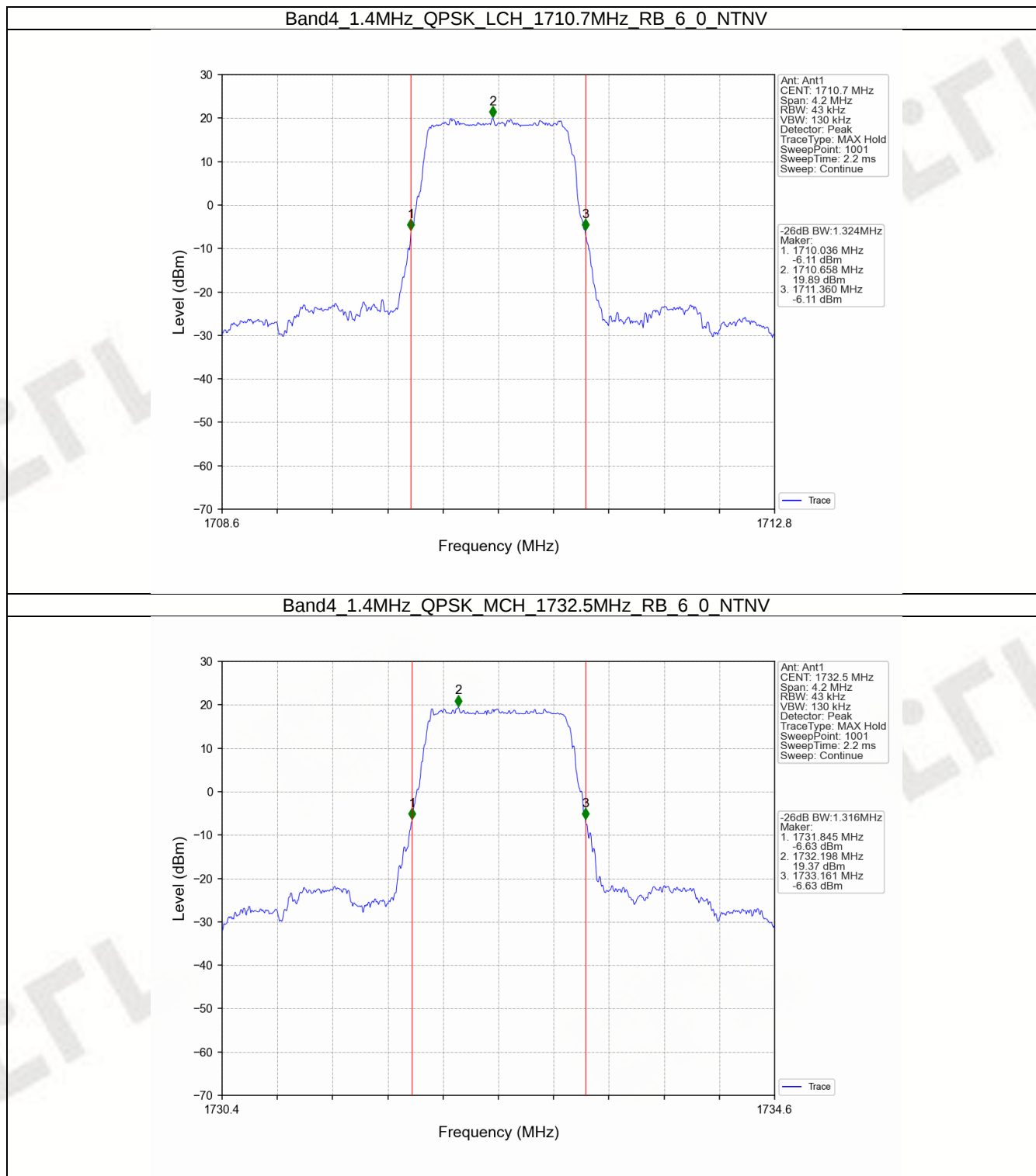
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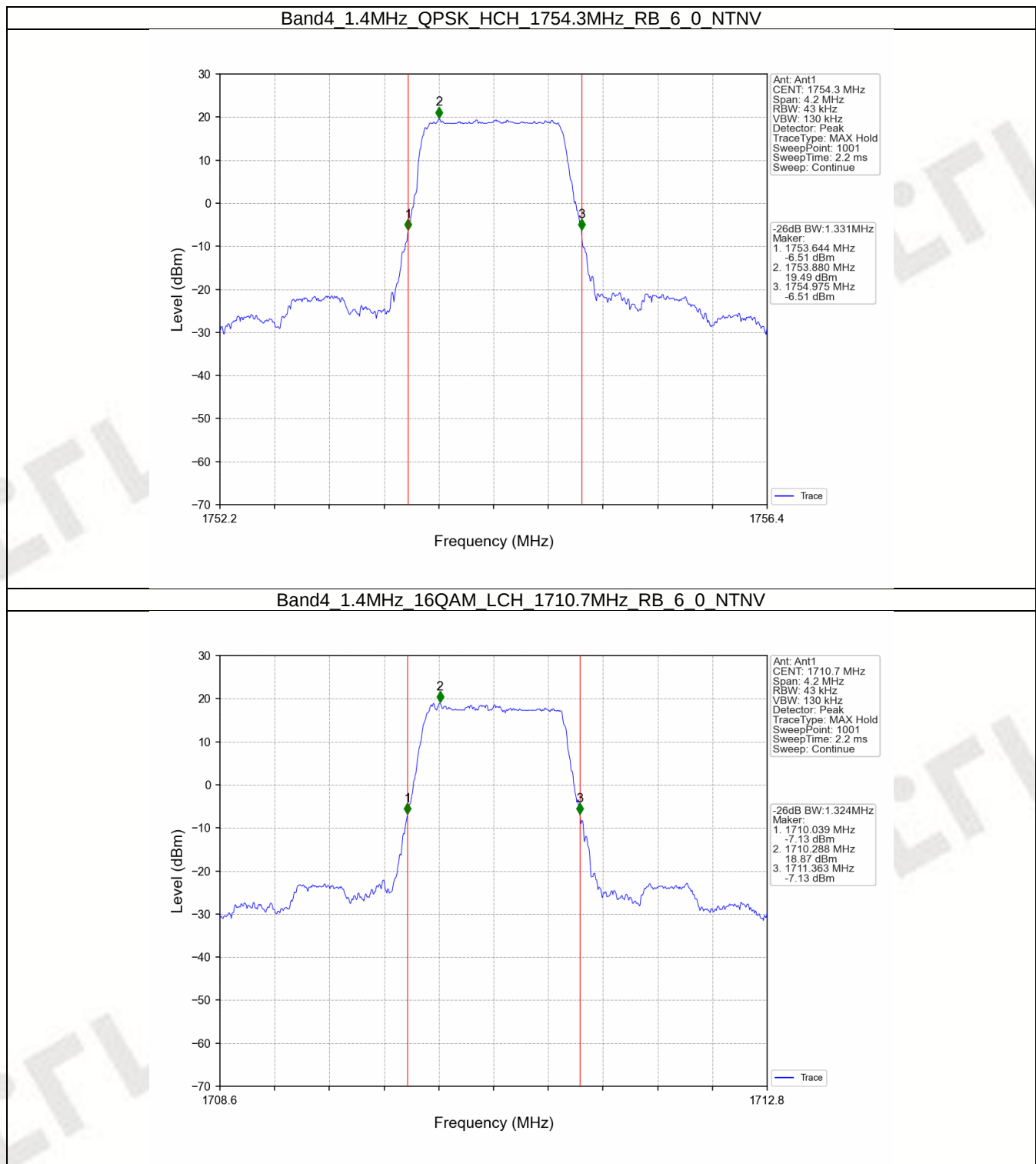
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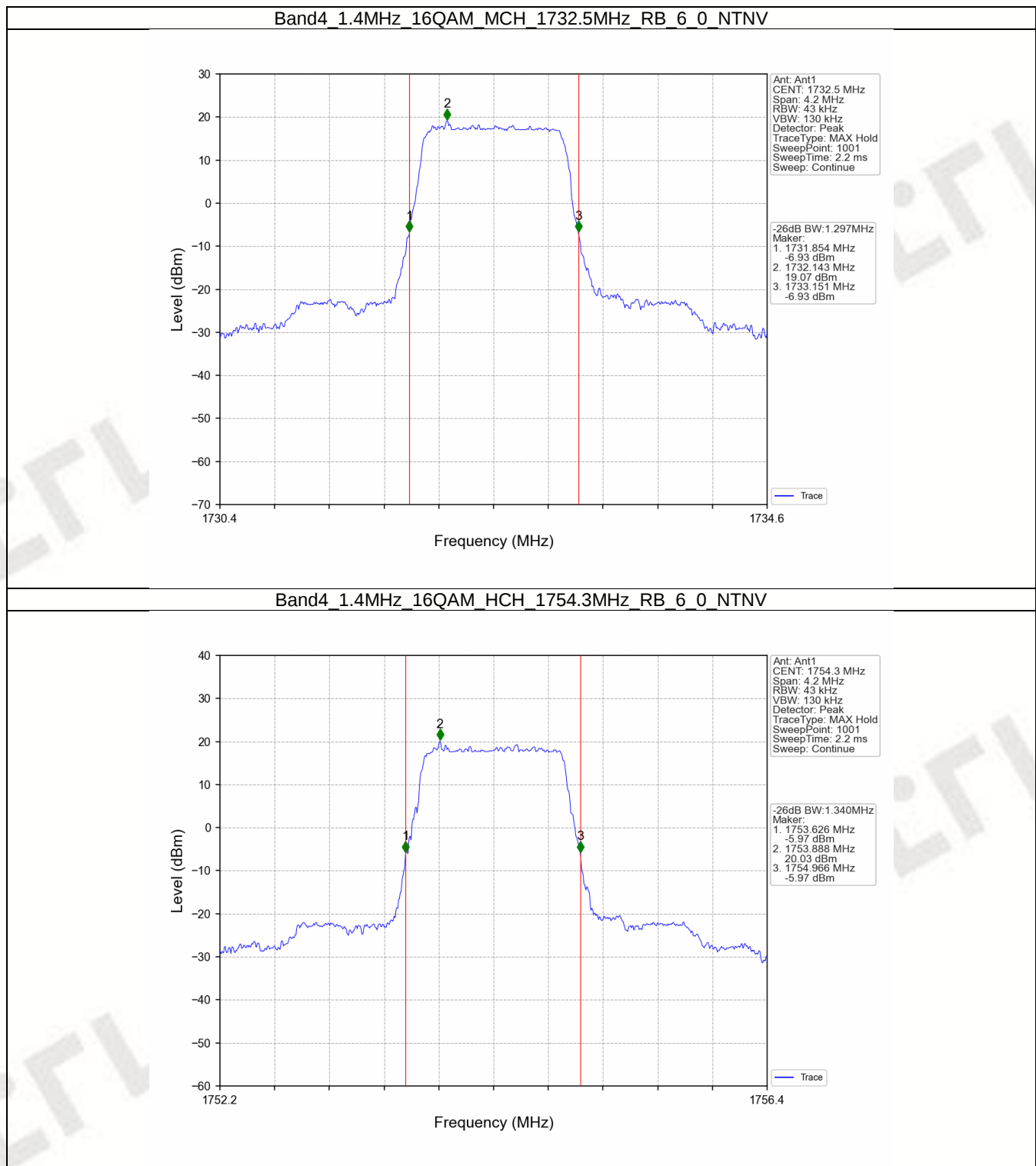
4.2.2 Band4_XDB



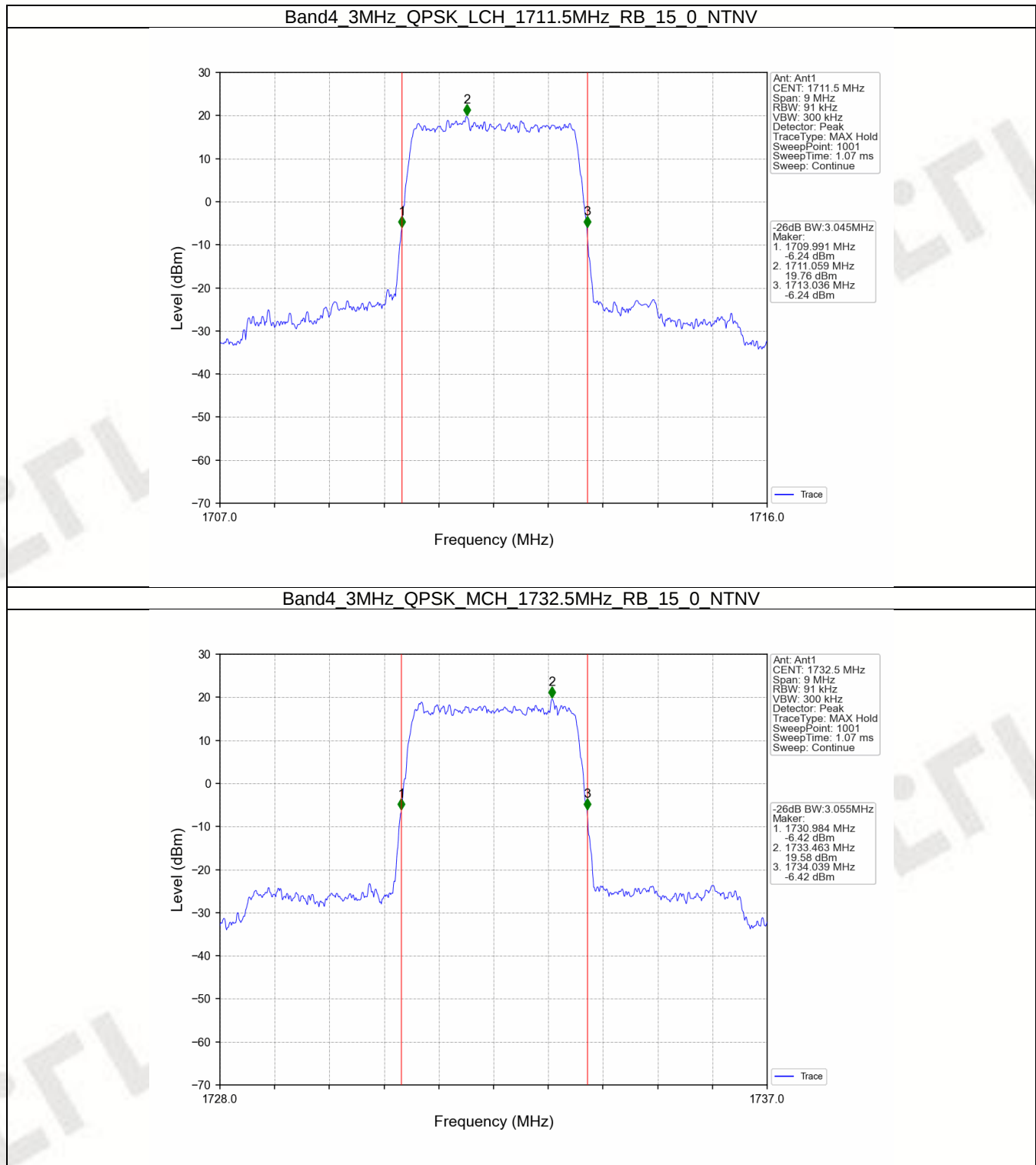
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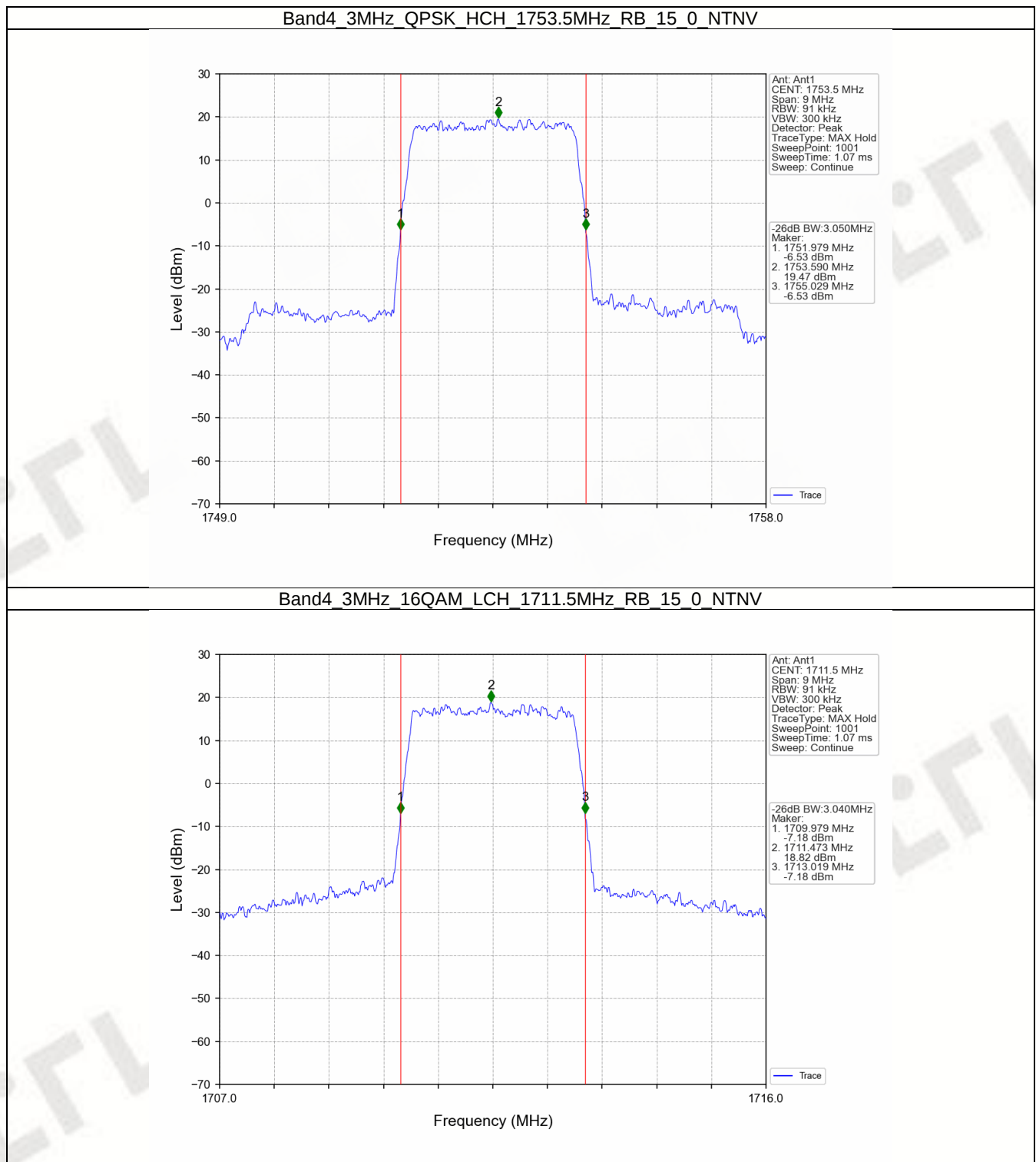
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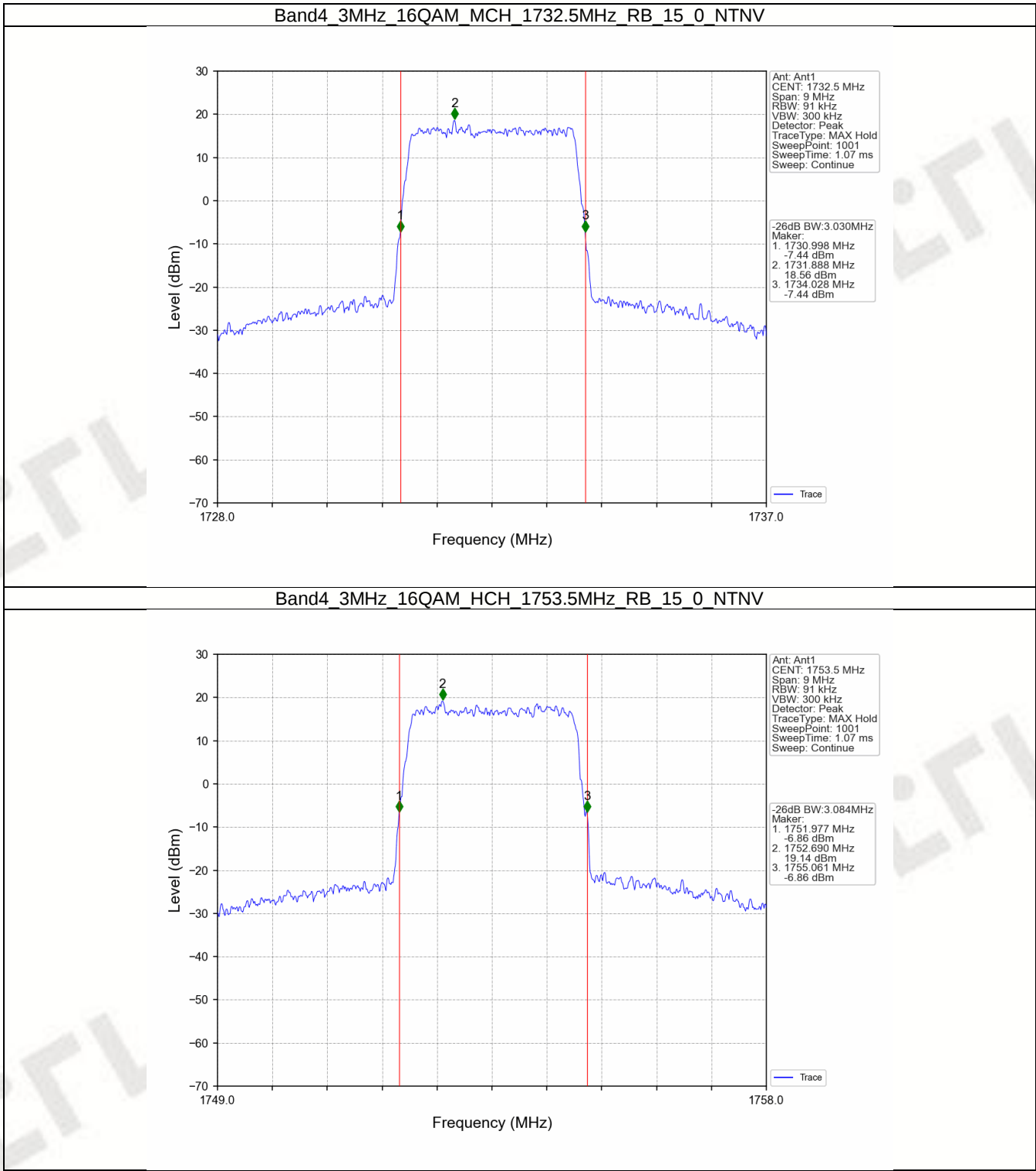
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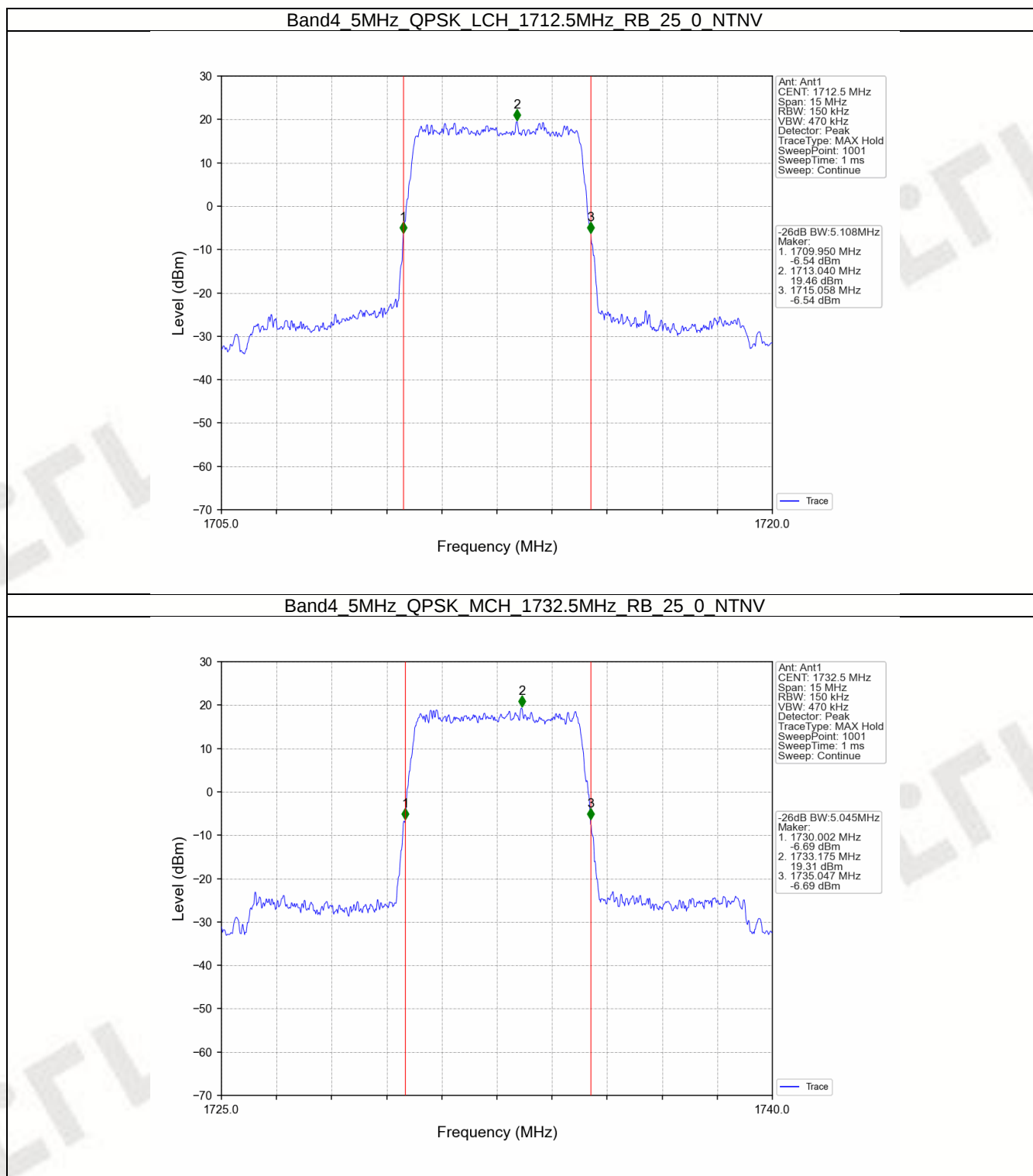
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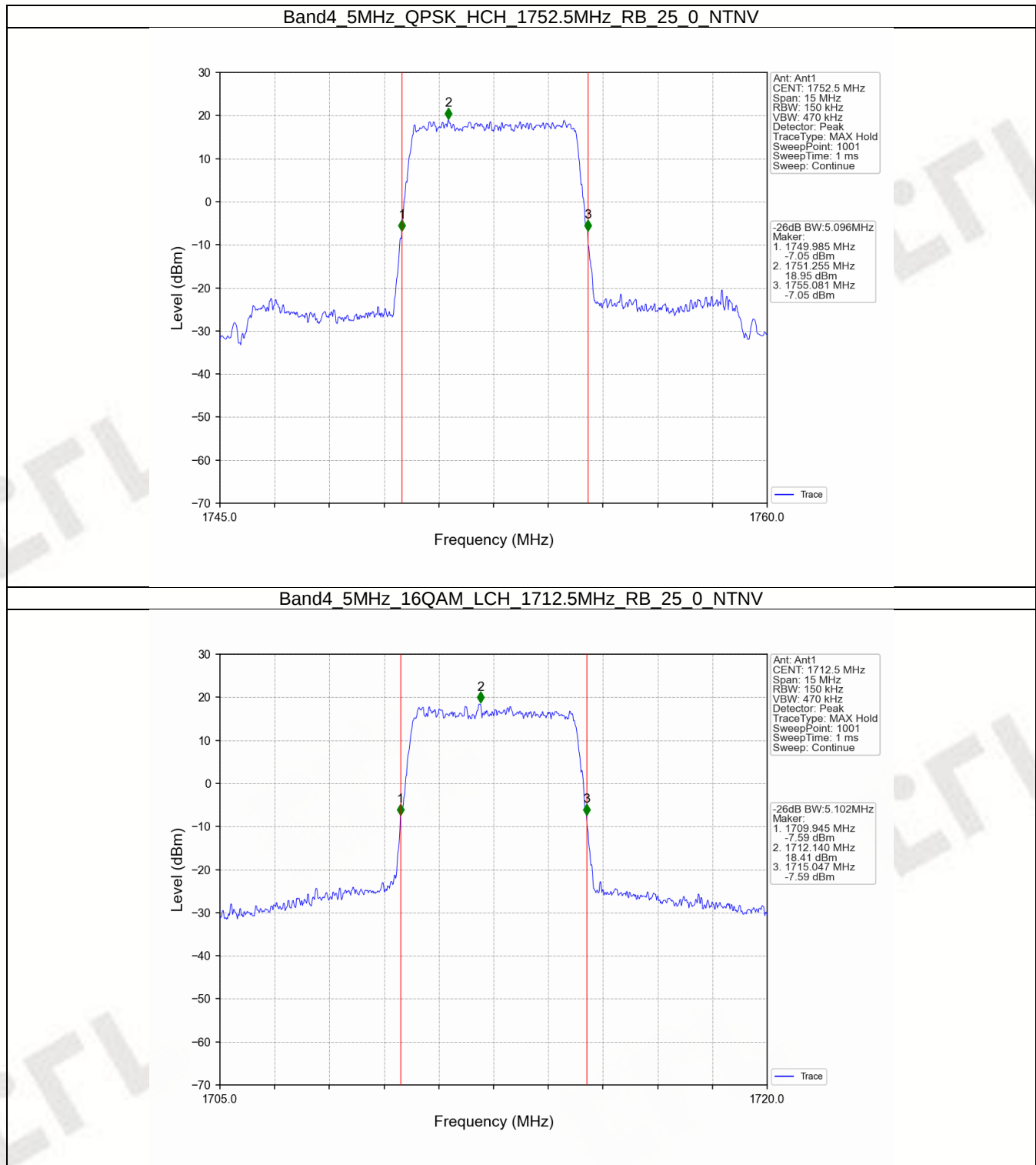
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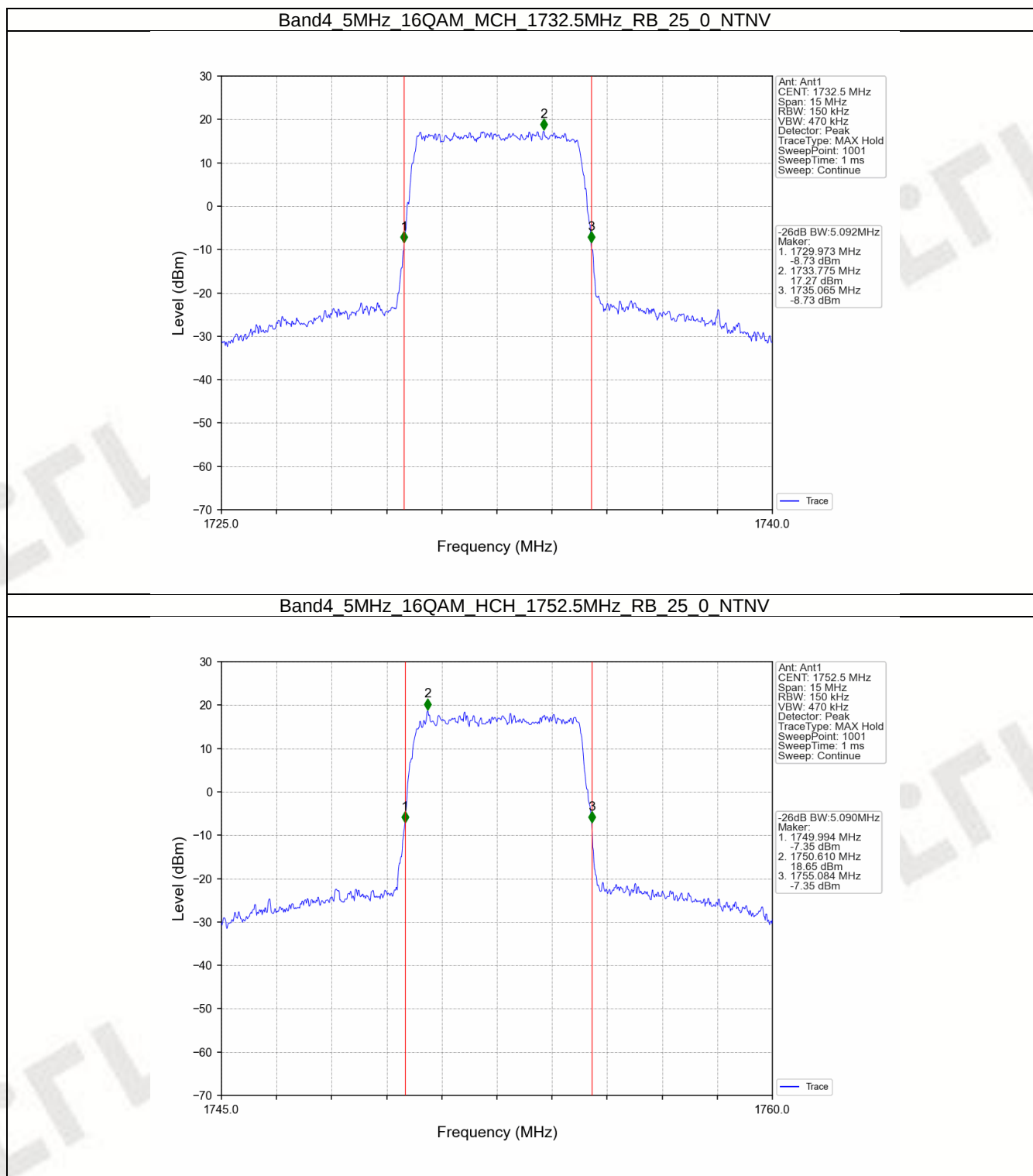
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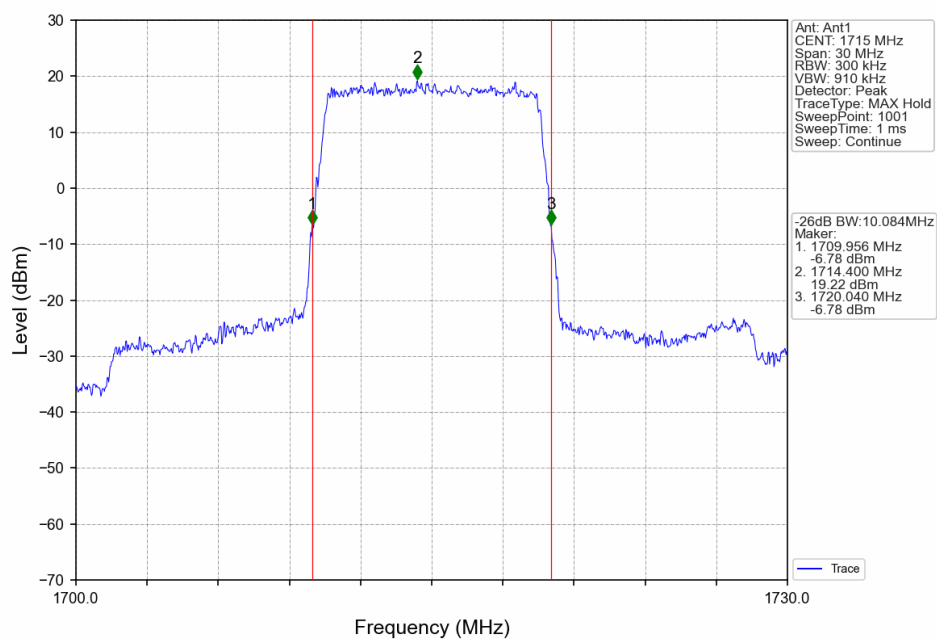


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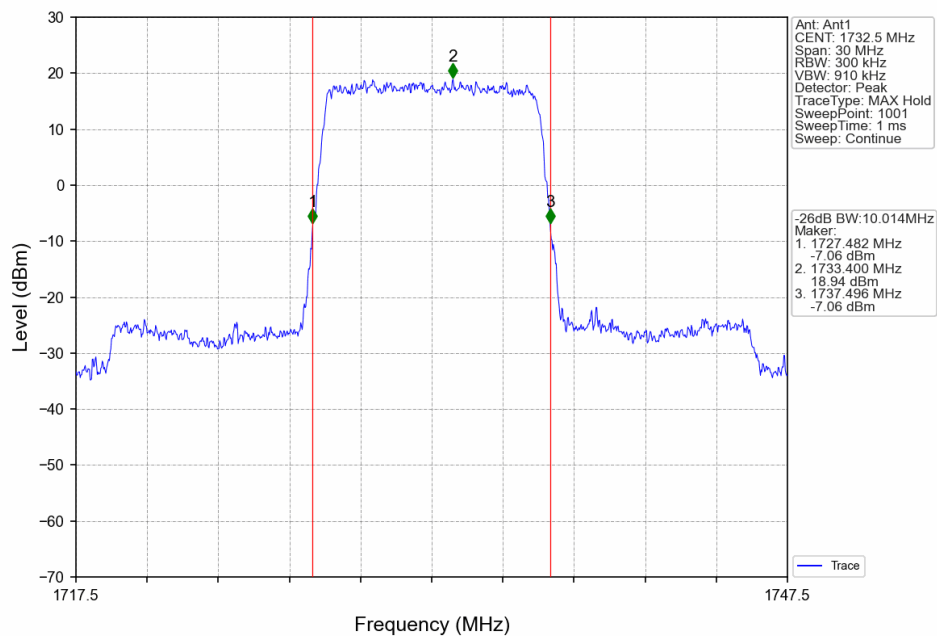


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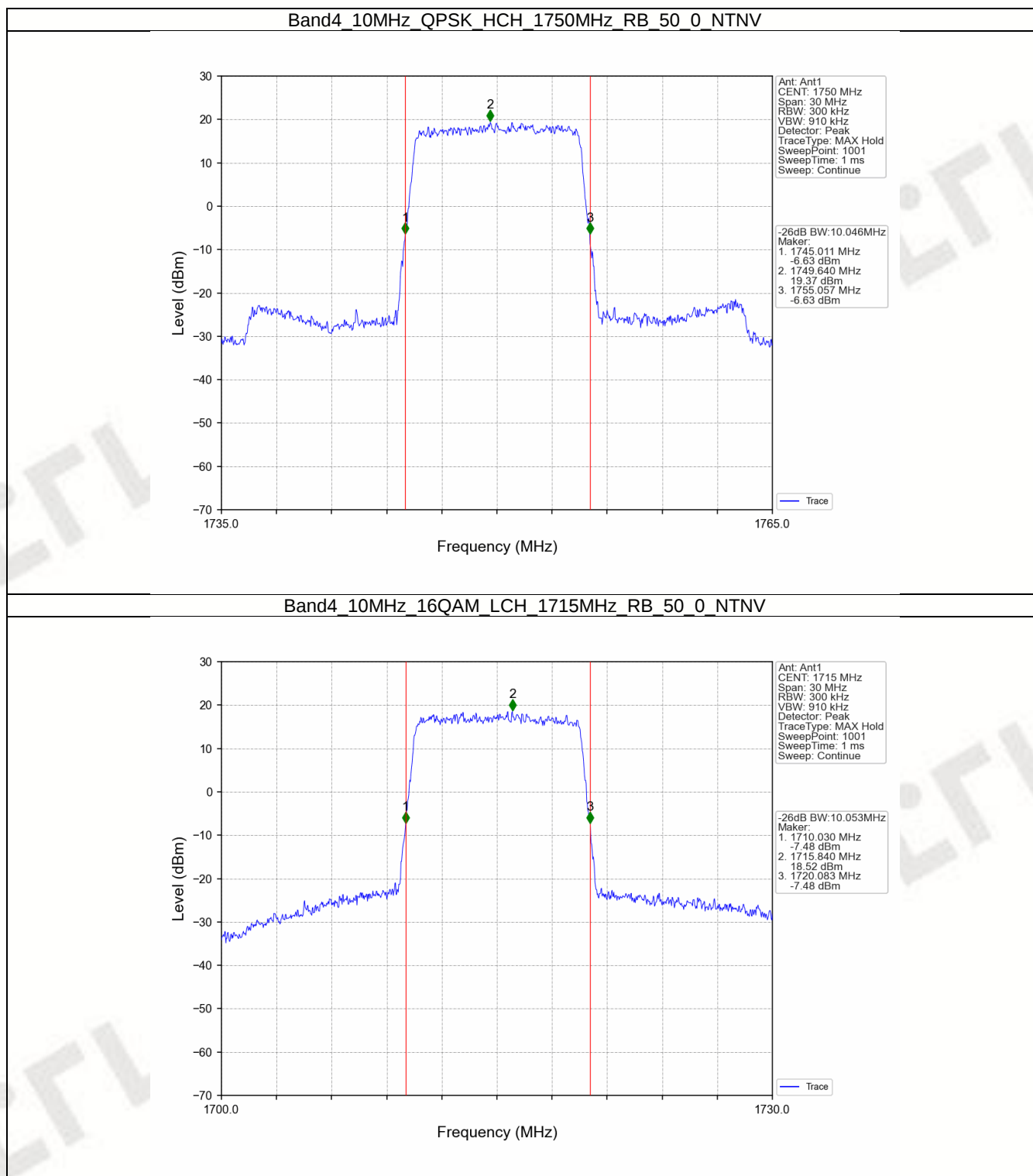
Band4_10MHz_QPSK_LCH_1715MHz_RB_50_0_NTNV



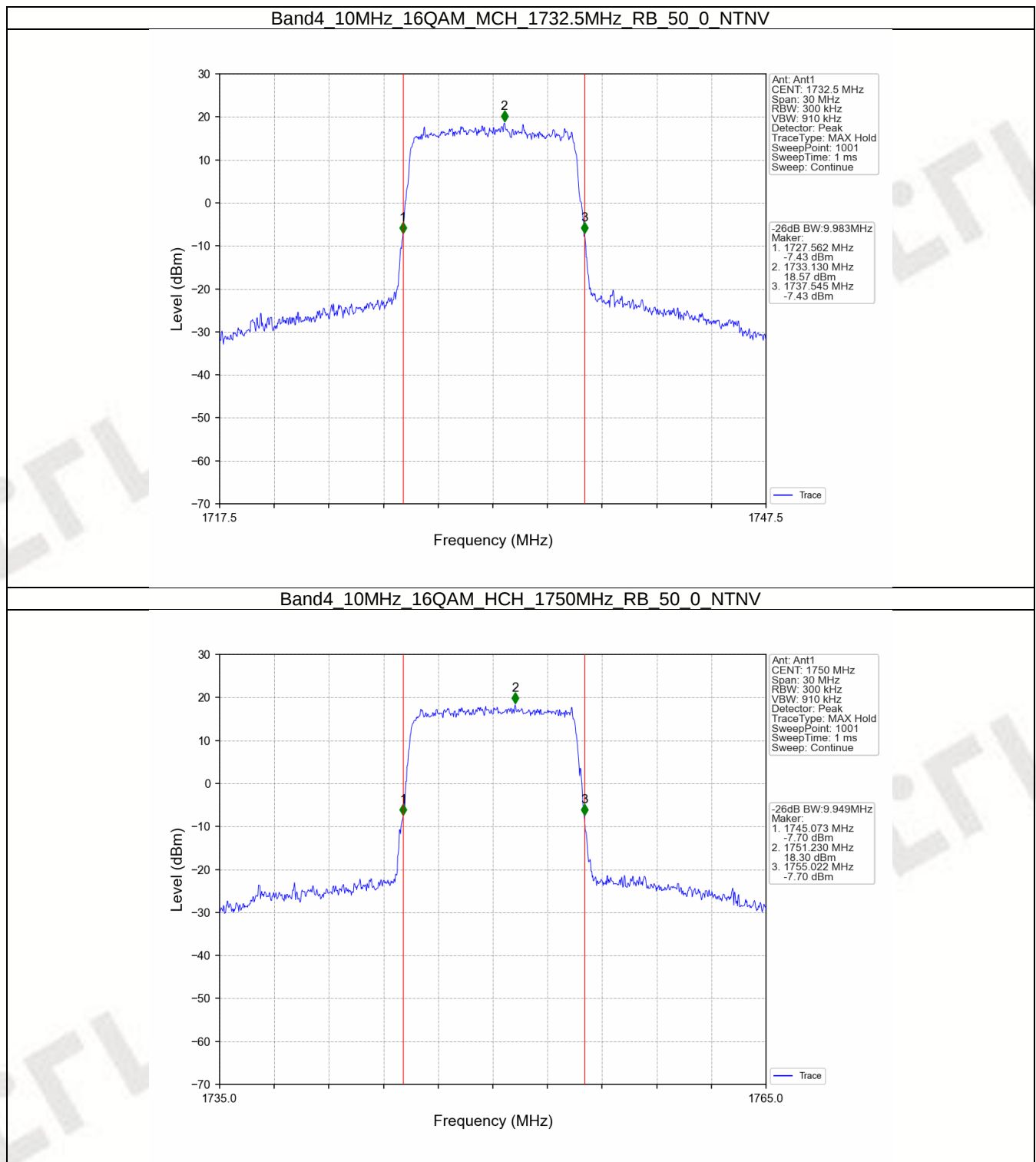
Band4_10MHz_QPSK_MCH_1732.5MHz_RB_50_0_NTNV



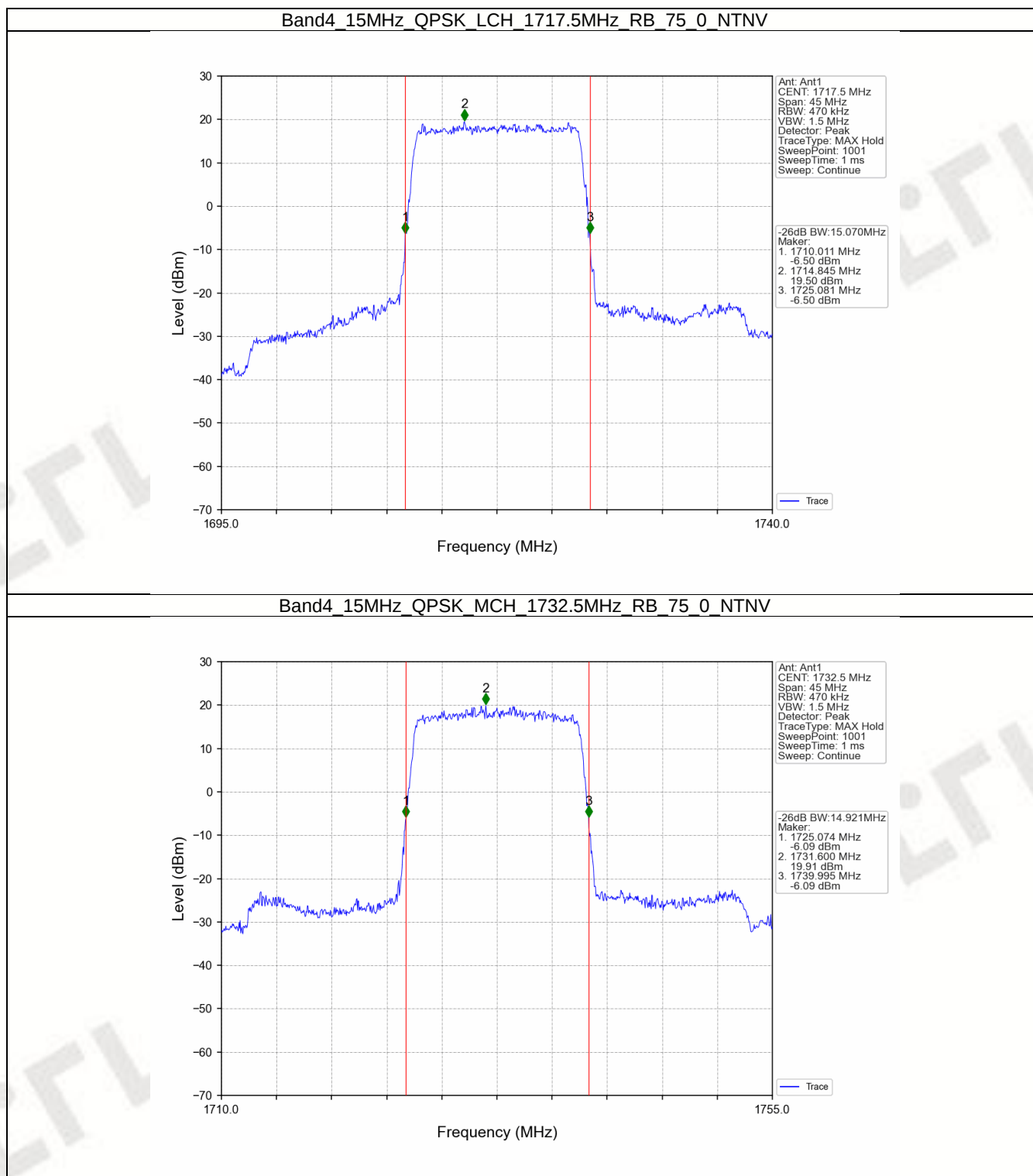
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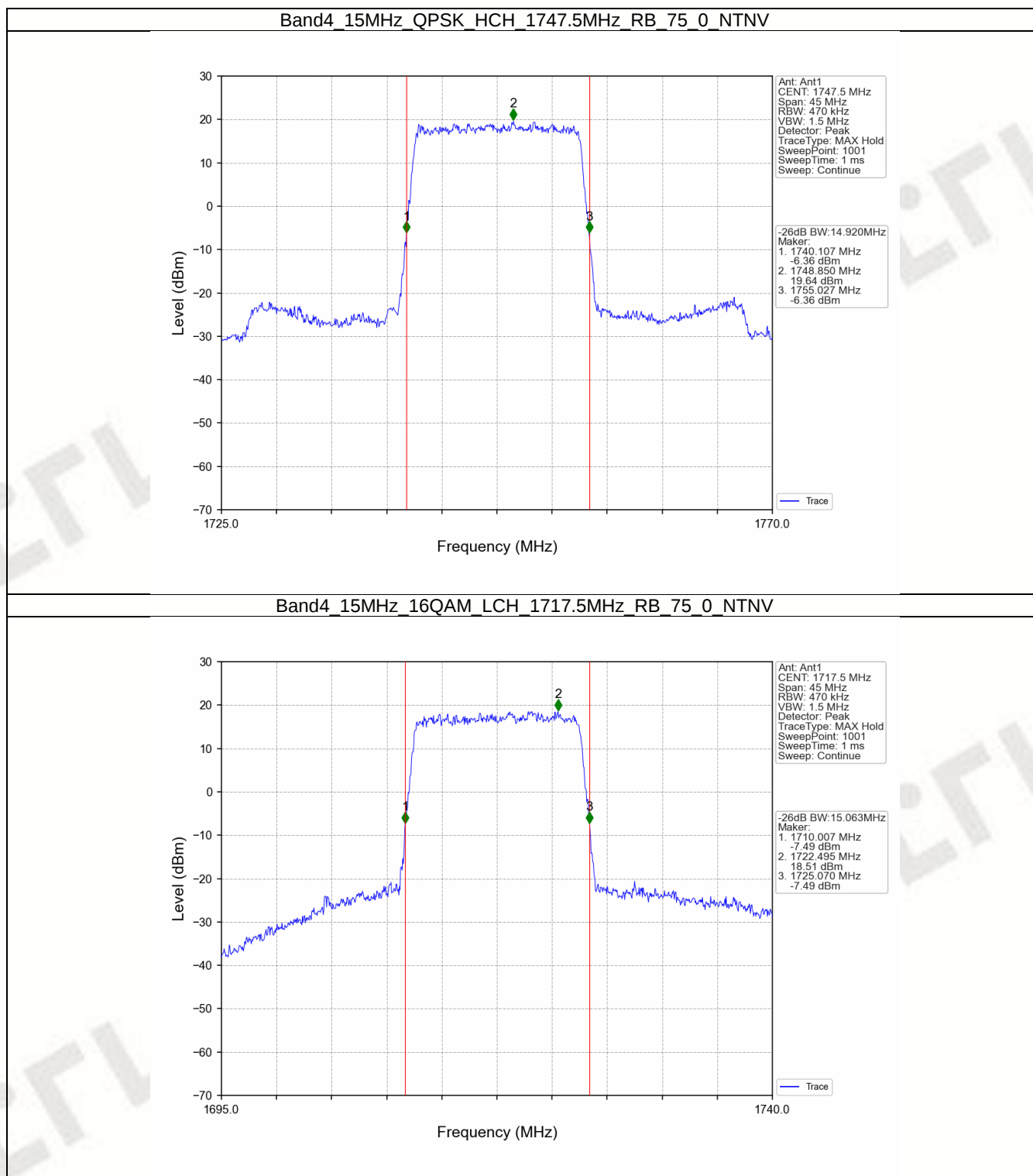
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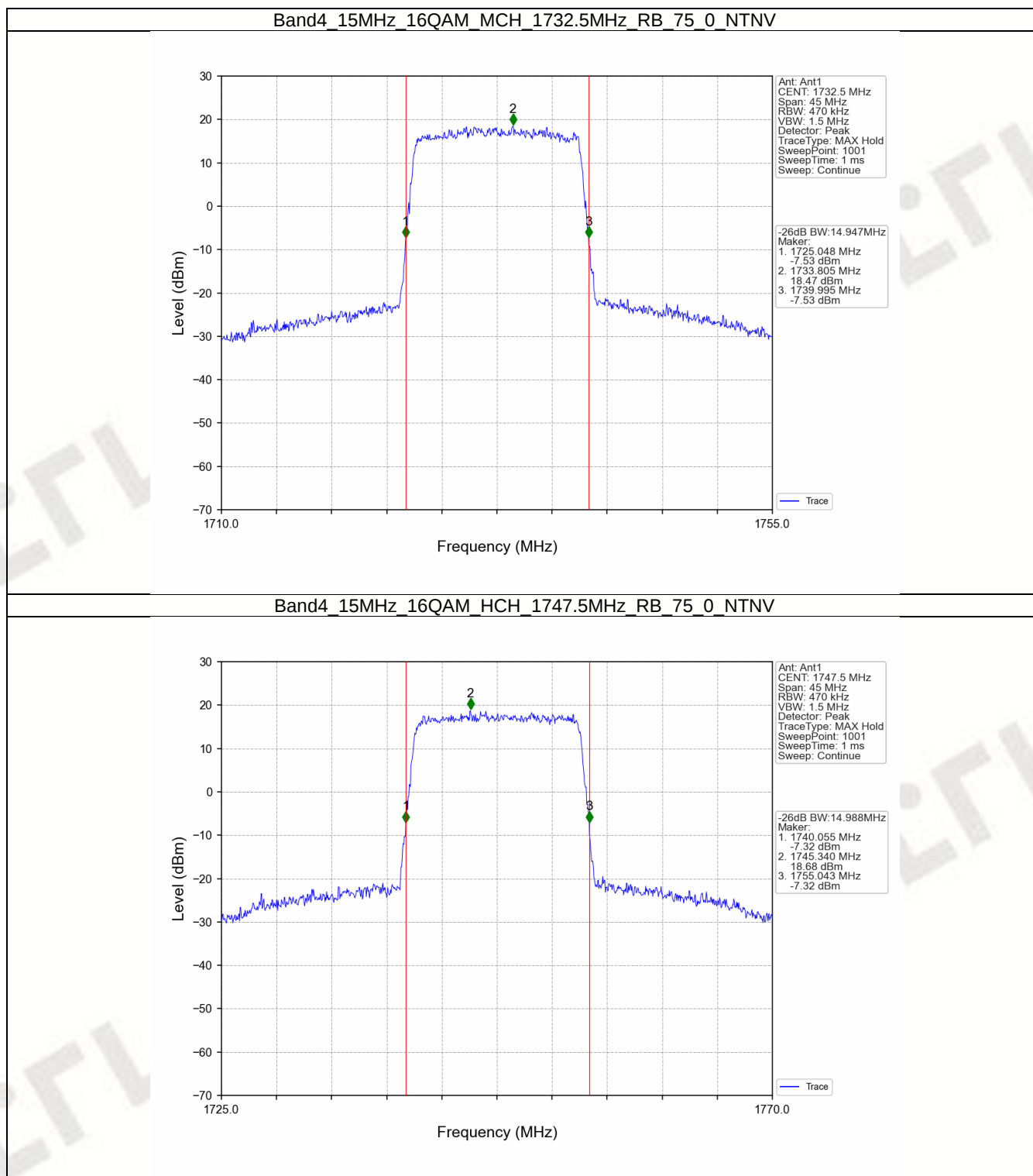
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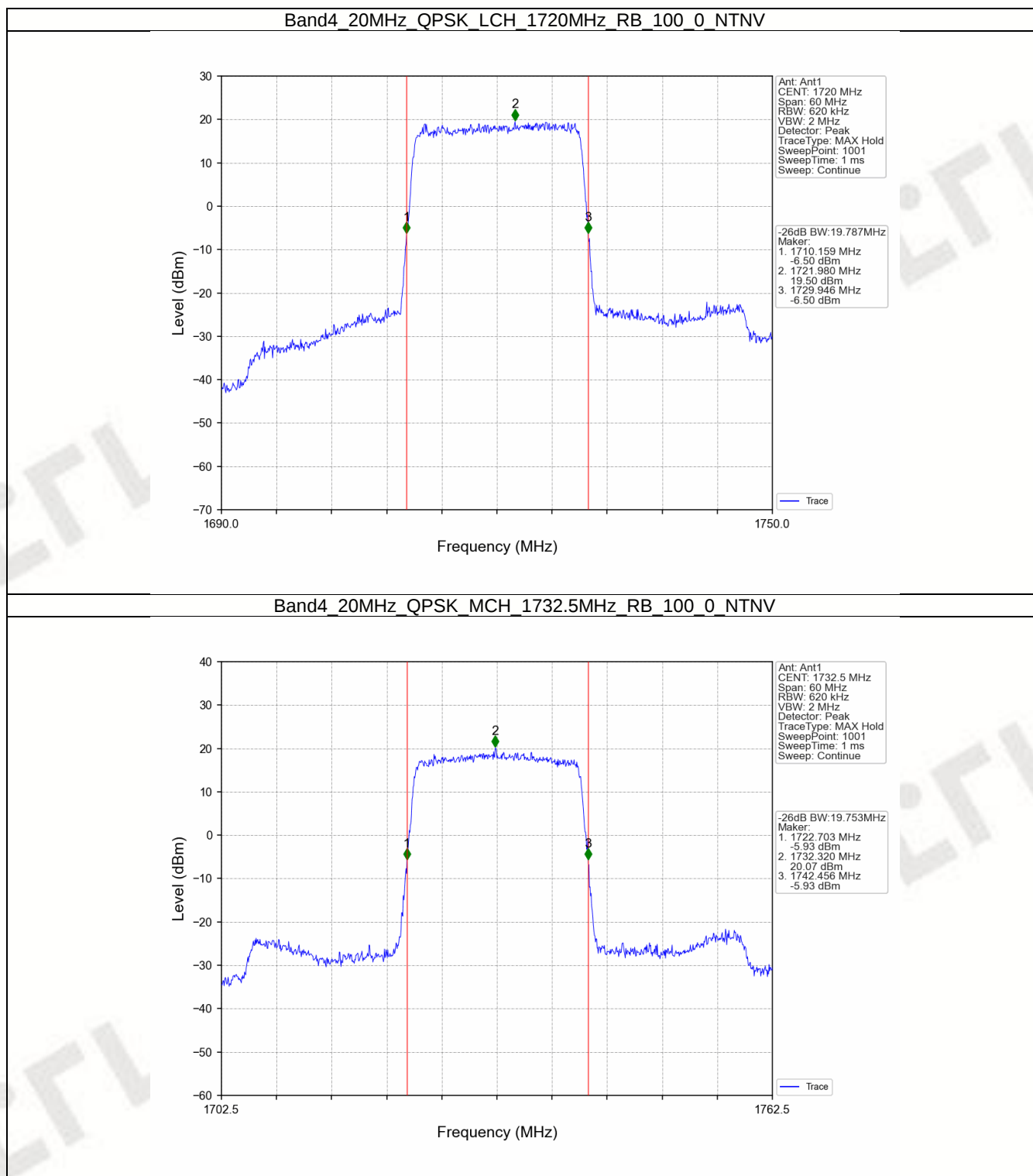
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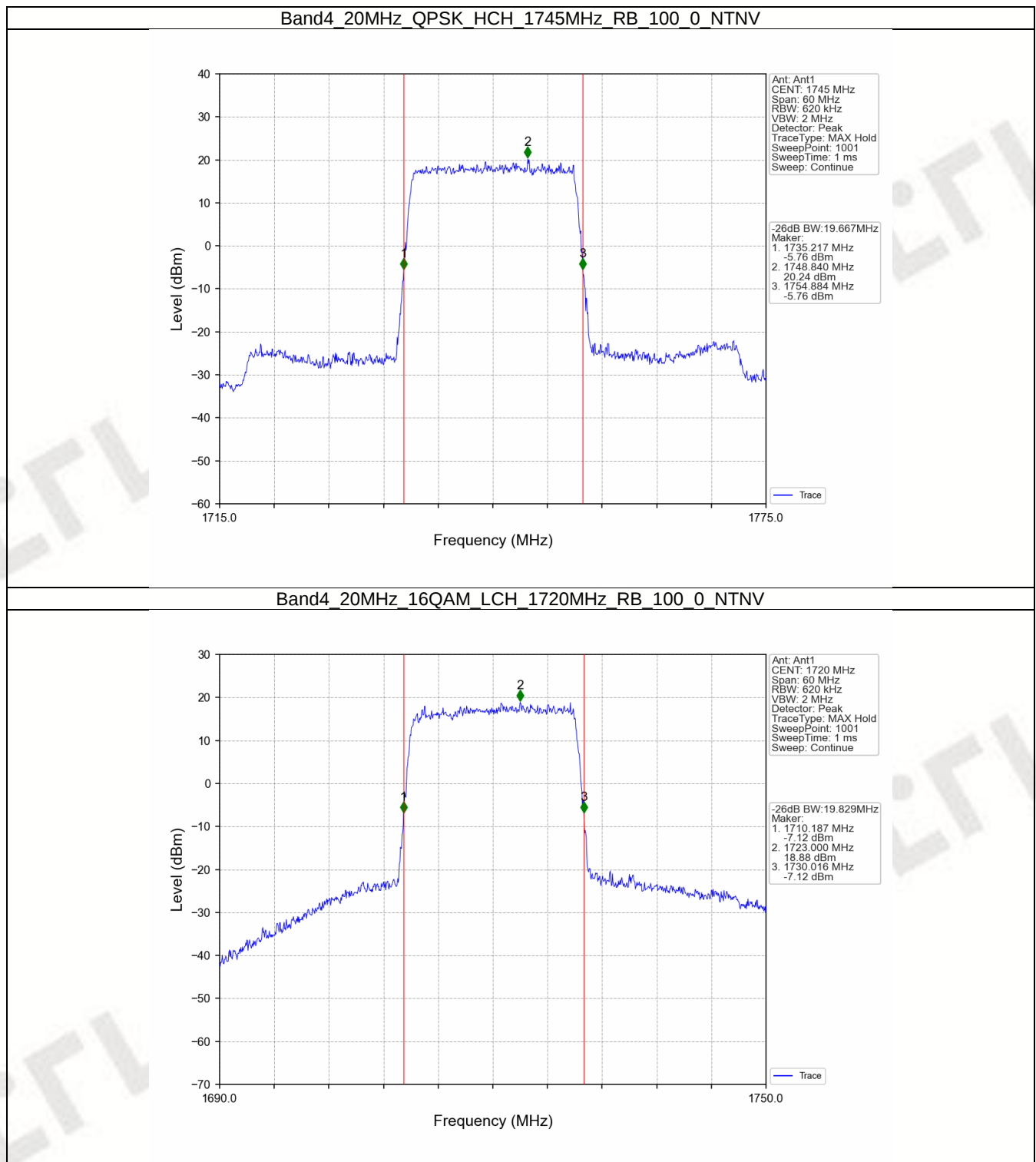
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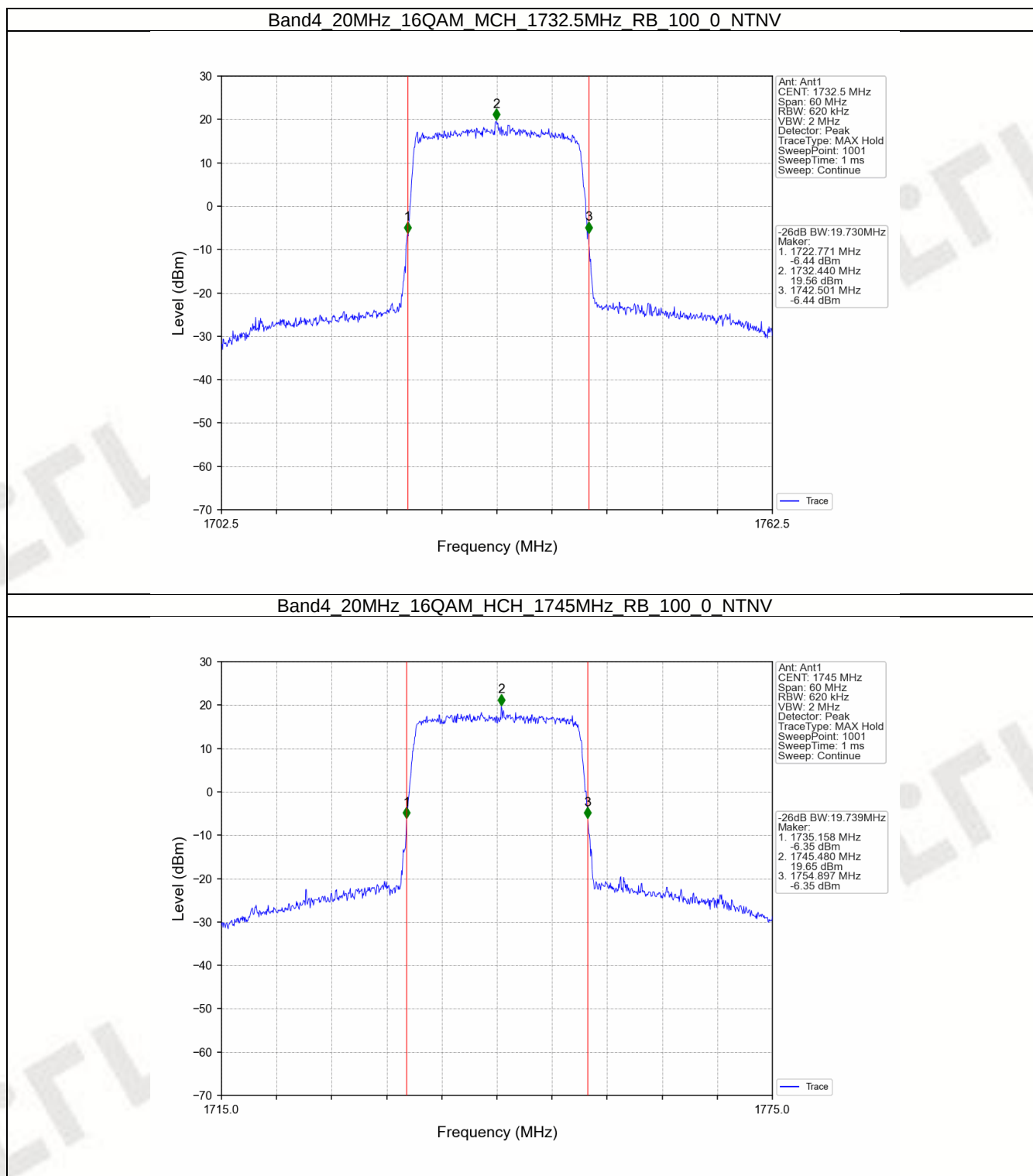
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FCCID: 2BCUE-P8GLOBAL



FCCID: 2BCUE-P8GLOBAL



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B4_1.4MHz

Band: 4 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	6	0	5.36	<=13	Pass
	1732.5	6	0	5.21	<=13	Pass
	1754.3	6	0	5.17	<=13	Pass
16QAM	1710.7	6	0	6.21	<=13	Pass
	1732.5	6	0	6.04	<=13	Pass
	1754.3	6	0	5.96	<=13	Pass

5.1.2 B4_3MHz

Band: 4 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	15	0	5.44	<=13	Pass
	1732.5	15	0	5.28	<=13	Pass
	1753.5	15	0	5.25	<=13	Pass
16QAM	1711.5	15	0	6.28	<=13	Pass
	1732.5	15	0	6.08	<=13	Pass
	1753.5	15	0	6.04	<=13	Pass

5.1.3 B4_5MHz

Band: 4 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	25	0	5.41	<=13	Pass
	1732.5	25	0	5.27	<=13	Pass
	1752.5	25	0	5.29	<=13	Pass
16QAM	1712.5	25	0	6.20	<=13	Pass
	1732.5	25	0	6.01	<=13	Pass
	1752.5	25	0	6.04	<=13	Pass

5.1.4 B4_10MHz

Band: 4 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	50	0	5.38	<=13	Pass
	1732.5	50	0	5.19	<=13	Pass
	1750	50	0	5.27	<=13	Pass
16QAM	1715	50	0	6.17	<=13	Pass
	1732.5	50	0	5.99	<=13	Pass
	1750	50	0	6.06	<=13	Pass

5.1.5 B4_15MHz

Band: 4 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	75	0	5.54	<=13	Pass
	1732.5	75	0	5.31	<=13	Pass
	1747.5	75	0	5.44	<=13	Pass
16QAM	1717.5	75	0	6.23	<=13	Pass
	1732.5	75	0	6.01	<=13	Pass
	1747.5	75	0	6.13	<=13	Pass

5.1.6 B4_20MHz

Band: 4 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	100	0	5.32	<=13	Pass
	1732.5	100	0	5.14	<=13	Pass
	1745	100	0	5.29	<=13	Pass
16QAM	1720	100	0	6.14	<=13	Pass
	1732.5	100	0	5.97	<=13	Pass
	1745	100	0	6.04	<=13	Pass