

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Test Result

### 1.1.1 B4\_1.4MHz\_EIRP

Band: 4 / Bandwidth: 1.4MHz / NTV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	1710.7	1	0	25.07	0.00	25.07	<=30	Pass		
			2	25.06	0.00	25.06	<=30	Pass		
			5	25.10	0.00	25.10	<=30	Pass		
		3	0	25.10	0.00	25.10	<=30	Pass		
			2	25.10	0.00	25.10	<=30	Pass		
			3	25.10	0.00	25.10	<=30	Pass		
		6	0	24.10	0.00	24.10	<=30	Pass		
		1732.5	1	0	25.02	0.00	25.02	<=30	Pass	
				2	24.97	0.00	24.97	<=30	Pass	
	5			25.07	0.00	25.07	<=30	Pass		
	3		0	25.04	0.00	25.04	<=30	Pass		
			2	25.04	0.00	25.04	<=30	Pass		
			3	25.09	0.00	25.09	<=30	Pass		
	6	0	24.01	0.00	24.01	<=30	Pass			
	1754.3	1	0	24.89	0.00	24.89	<=30	Pass		
			2	24.84	0.00	24.84	<=30	Pass		
			5	24.92	0.00	24.92	<=30	Pass		
		3	0	24.96	0.00	24.96	<=30	Pass		
			2	24.93	0.00	24.93	<=30	Pass		
			3	24.95	0.00	24.95	<=30	Pass		
		6	0	23.98	0.00	23.98	<=30	Pass		
		16QAM	1710.7	1	0	24.28	0.00	24.28	<=30	Pass
					2	24.22	0.00	24.22	<=30	Pass
	5				24.27	0.00	24.27	<=30	Pass	
3	0			24.14	0.00	24.14	<=30	Pass		
	2			24.10	0.00	24.10	<=30	Pass		
	3			24.12	0.00	24.12	<=30	Pass		
6	0			23.05	0.00	23.05	<=30	Pass		
1732.5	1			0	24.11	0.00	24.11	<=30	Pass	
				2	24.02	0.00	24.02	<=30	Pass	
			5	24.14	0.00	24.14	<=30	Pass		
	3		0	24.02	0.00	24.02	<=30	Pass		
			2	24.03	0.00	24.03	<=30	Pass		
			3	24.03	0.00	24.03	<=30	Pass		
6	0		22.94	0.00	22.94	<=30	Pass			
1754.3	1		0	23.99	0.00	23.99	<=30	Pass		
			2	23.93	0.00	23.93	<=30	Pass		
			5	24.00	0.00	24.00	<=30	Pass		
	3		0	24.16	0.00	24.16	<=30	Pass		
			2	24.16	0.00	24.16	<=30	Pass		
			3	24.18	0.00	24.18	<=30	Pass		
	6		0	22.95	0.00	22.95	<=30	Pass		
	64QAM		1710.7	1	0	23.29	0.00	23.29	<=30	Pass
					2	23.24	0.00	23.24	<=30	Pass
5					23.24	0.00	23.24	<=30	Pass	
3		0		23.17	0.00	23.17	<=30	Pass		
		2		23.17	0.00	23.17	<=30	Pass		
		3		23.17	0.00	23.17	<=30	Pass		
6		0		22.35	0.00	22.35	<=30	Pass		

	1732.5	1	0	23.25	0.00	23.25	<=30	Pass	
			2	23.16	0.00	23.16	<=30	Pass	
			5	23.27	0.00	23.27	<=30	Pass	
		3	0	22.95	0.00	22.95	<=30	Pass	
			2	22.94	0.00	22.94	<=30	Pass	
			3	22.92	0.00	22.92	<=30	Pass	
	6	0	22.14	0.00	22.14	<=30	Pass		
	1754.3	1	0	23.43	0.00	23.43	<=30	Pass	
			2	23.44	0.00	23.44	<=30	Pass	
			5	23.42	0.00	23.42	<=30	Pass	
		3	0	23.22	0.00	23.22	<=30	Pass	
			2	23.21	0.00	23.21	<=30	Pass	
			3	23.22	0.00	23.22	<=30	Pass	
	6	0	21.93	0.00	21.93	<=30	Pass		
	256QAM	1710.7	1	0	19.89	0.00	19.89	<=30	Pass
				2	19.83	0.00	19.83	<=30	Pass
				5	19.90	0.00	19.90	<=30	Pass
			3	0	19.89	0.00	19.89	<=30	Pass
2				19.89	0.00	19.89	<=30	Pass	
3				19.91	0.00	19.91	<=30	Pass	
6		0	20.13	0.00	20.13	<=30	Pass		
1732.5		1	0	20.05	0.00	20.05	<=30	Pass	
			2	20.02	0.00	20.02	<=30	Pass	
			5	20.05	0.00	20.05	<=30	Pass	
		3	0	20.04	0.00	20.04	<=30	Pass	
			2	20.02	0.00	20.02	<=30	Pass	
			3	20.02	0.00	20.02	<=30	Pass	
6		0	20.07	0.00	20.07	<=30	Pass		
1754.3		1	0	20.20	0.00	20.20	<=30	Pass	
			2	20.22	0.00	20.22	<=30	Pass	
			5	20.19	0.00	20.19	<=30	Pass	
		3	0	19.88	0.00	19.88	<=30	Pass	
			2	19.89	0.00	19.89	<=30	Pass	
			3	19.90	0.00	19.90	<=30	Pass	
6		0	19.88	0.00	19.88	<=30	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

### 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	25.12	0.00	25.12	<=30	Pass
			7	25.03	0.00	25.03	<=30	Pass
			14	25.13	0.00	25.13	<=30	Pass
		8	0	24.09	0.00	24.09	<=30	Pass
			4	24.06	0.00	24.06	<=30	Pass
			7	24.07	0.00	24.07	<=30	Pass
	15	0	24.07	0.00	24.07	<=30	Pass	
	1732.5	1	0	25.02	0.00	25.02	<=30	Pass
			7	25.03	0.00	25.03	<=30	Pass
			14	25.01	0.00	25.01	<=30	Pass
		8	0	24.09	0.00	24.09	<=30	Pass
			4	24.08	0.00	24.08	<=30	Pass
			7	24.05	0.00	24.05	<=30	Pass
	15	0	24.07	0.00	24.07	<=30	Pass	
	1753.5	1	0	25.02	0.00	25.02	<=30	Pass

16QAM	1711.5	8	7	25.03	0.00	25.03	<=30	Pass								
			14	25.01	0.00	25.01	<=30	Pass								
			0	24.03	0.00	24.03	<=30	Pass								
		15	1	4	24.00	0.00	24.00	<=30	Pass							
				7	24.02	0.00	24.02	<=30	Pass							
				0	24.03	0.00	24.03	<=30	Pass							
		16QAM	1732.5	8	0	24.64	0.00	24.64	<=30	Pass						
					7	24.60	0.00	24.60	<=30	Pass						
					14	24.61	0.00	24.61	<=30	Pass						
				15	1	0	23.30	0.00	23.30	<=30	Pass					
						4	23.27	0.00	23.27	<=30	Pass					
						7	23.28	0.00	23.28	<=30	Pass					
				64QAM	1753.5	8	0	23.17	0.00	23.17	<=30	Pass				
							0	24.30	0.00	24.30	<=30	Pass				
							7	24.27	0.00	24.27	<=30	Pass				
15	1					14	24.25	0.00	24.25	<=30	Pass					
						0	23.01	0.00	23.01	<=30	Pass					
						4	23.00	0.00	23.00	<=30	Pass					
256QAM	1711.5					8	7	22.99	0.00	22.99	<=30	Pass				
							0	22.98	0.00	22.98	<=30	Pass				
							0	24.13	0.00	24.13	<=30	Pass				
		15	1			7	24.07	0.00	24.07	<=30	Pass					
						14	24.08	0.00	24.08	<=30	Pass					
						0	23.08	0.00	23.08	<=30	Pass					
		256QAM	1732.5			8	4	23.07	0.00	23.07	<=30	Pass				
							7	23.07	0.00	23.07	<=30	Pass				
							0	23.05	0.00	23.05	<=30	Pass				
				256QAM	1753.5	8	0	23.35	0.00	23.35	<=30	Pass				
							7	23.28	0.00	23.28	<=30	Pass				
							14	23.35	0.00	23.35	<=30	Pass				
						256QAM	1711.5	8	0	22.17	0.00	22.17	<=30	Pass		
									4	22.14	0.00	22.14	<=30	Pass		
									7	22.14	0.00	22.14	<=30	Pass		
256QAM	1732.5							8	0	22.08	0.00	22.08	<=30	Pass		
									0	23.28	0.00	23.28	<=30	Pass		
									7	23.25	0.00	23.25	<=30	Pass		
								256QAM	1753.5	8	14	23.33	0.00	23.33	<=30	Pass
											0	22.13	0.00	22.13	<=30	Pass
											4	22.10	0.00	22.10	<=30	Pass
		256QAM	1711.5							8	7	22.09	0.00	22.09	<=30	Pass
											0	22.07	0.00	22.07	<=30	Pass
											0	23.27	0.00	23.27	<=30	Pass
				256QAM	1732.5					8	7	23.19	0.00	23.19	<=30	Pass
											14	23.18	0.00	23.18	<=30	Pass
											0	21.96	0.00	21.96	<=30	Pass
						256QAM	1753.5			8	4	21.92	0.00	21.92	<=30	Pass
											7	21.94	0.00	21.94	<=30	Pass
											0	22.03	0.00	22.03	<=30	Pass
256QAM	1711.5									8	0	20.50	0.00	20.50	<=30	Pass
											7	20.49	0.00	20.49	<=30	Pass
											14	20.52	0.00	20.52	<=30	Pass
								256QAM	1732.5	8	0	20.20	0.00	20.20	<=30	Pass
											4	20.17	0.00	20.17	<=30	Pass
											7	20.17	0.00	20.17	<=30	Pass
		256QAM	1753.5							8	0	20.15	0.00	20.15	<=30	Pass
											0	19.90	0.00	19.90	<=30	Pass
											7	19.82	0.00	19.82	<=30	Pass
				256QAM	1711.5					8	14	19.82	0.00	19.82	<=30	Pass
											0	20.01	0.00	20.01	<=30	Pass

	1753.5	15	4	19.99	0.00	19.99	<=30	Pass
			7	19.98	0.00	19.98	<=30	Pass
		0	20.15	0.00	20.15	<=30	Pass	
	1	8	0	20.05	0.00	20.05	<=30	Pass
			7	19.99	0.00	19.99	<=30	Pass
			14	20.01	0.00	20.01	<=30	Pass
	15	0	0	20.14	0.00	20.14	<=30	Pass
			4	20.12	0.00	20.12	<=30	Pass
			7	20.12	0.00	20.12	<=30	Pass
	0	20.05	0.00	20.05	<=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	25.22	0.00	25.22	<=30	Pass		
			13	25.11	0.00	25.11	<=30	Pass		
			24	25.22	0.00	25.22	<=30	Pass		
		12	0	24.16	0.00	24.16	<=30	Pass		
			6	24.11	0.00	24.11	<=30	Pass		
			13	24.12	0.00	24.12	<=30	Pass		
		25	0	24.18	0.00	24.18	<=30	Pass		
		1732.5	1	0	25.13	0.00	25.13	<=30	Pass	
				13	25.05	0.00	25.05	<=30	Pass	
	24			25.11	0.00	25.11	<=30	Pass		
	12		0	24.14	0.00	24.14	<=30	Pass		
			6	24.08	0.00	24.08	<=30	Pass		
			13	24.13	0.00	24.13	<=30	Pass		
	25		0	24.14	0.00	24.14	<=30	Pass		
	1752.5		1	0	25.12	0.00	25.12	<=30	Pass	
				13	25.07	0.00	25.07	<=30	Pass	
		24		25.11	0.00	25.11	<=30	Pass		
		12	0	24.08	0.00	24.08	<=30	Pass		
			6	24.03	0.00	24.03	<=30	Pass		
			13	24.06	0.00	24.06	<=30	Pass		
		25	0	24.10	0.00	24.10	<=30	Pass		
		16QAM	1712.5	1	0	24.02	0.00	24.02	<=30	Pass
					13	24.02	0.00	24.02	<=30	Pass
	24				24.07	0.00	24.07	<=30	Pass	
12	0			23.20	0.00	23.20	<=30	Pass		
	6			23.14	0.00	23.14	<=30	Pass		
	13			23.16	0.00	23.16	<=30	Pass		
25	0			23.18	0.00	23.18	<=30	Pass		
1732.5	1			0	24.38	0.00	24.38	<=30	Pass	
				13	24.32	0.00	24.32	<=30	Pass	
			24	24.34	0.00	24.34	<=30	Pass		
	12		0	23.16	0.00	23.16	<=30	Pass		
			6	23.12	0.00	23.12	<=30	Pass		
			13	23.13	0.00	23.13	<=30	Pass		
25	0		23.12	0.00	23.12	<=30	Pass			
1752.5	1		0	24.15	0.00	24.15	<=30	Pass		
		13	24.07	0.00	24.07	<=30	Pass			
		24	24.14	0.00	24.14	<=30	Pass			
	12	0	23.09	0.00	23.09	<=30	Pass			
		6	23.03	0.00	23.03	<=30	Pass			

64QAM	1712.5	25	13	23.04	0.00	23.04	<=30	Pass	
			0	23.07	0.00	23.07	<=30	Pass	
		1	0	23.15	0.00	23.15	<=30	Pass	
			13	23.08	0.00	23.08	<=30	Pass	
			24	23.13	0.00	23.13	<=30	Pass	
		12	0	22.22	0.00	22.22	<=30	Pass	
			6	22.18	0.00	22.18	<=30	Pass	
	13		22.18	0.00	22.18	<=30	Pass		
	25	0	22.12	0.00	22.12	<=30	Pass		
	1732.5	1	0	23.45	0.00	23.45	<=30	Pass	
			13	23.44	0.00	23.44	<=30	Pass	
			24	23.47	0.00	23.47	<=30	Pass	
		12	0	22.04	0.00	22.04	<=30	Pass	
			6	21.98	0.00	21.98	<=30	Pass	
			13	22.01	0.00	22.01	<=30	Pass	
		25	0	22.06	0.00	22.06	<=30	Pass	
	1752.5	1	0	23.30	0.00	23.30	<=30	Pass	
			13	23.20	0.00	23.20	<=30	Pass	
			24	23.30	0.00	23.30	<=30	Pass	
		12	0	22.15	0.00	22.15	<=30	Pass	
			6	22.11	0.00	22.11	<=30	Pass	
			13	22.11	0.00	22.11	<=30	Pass	
		25	0	22.09	0.00	22.09	<=30	Pass	
	256QAM	1712.5	1	0	19.85	0.00	19.85	<=30	Pass
				13	19.82	0.00	19.82	<=30	Pass
24				19.85	0.00	19.85	<=30	Pass	
12			0	20.23	0.00	20.23	<=30	Pass	
			6	20.16	0.00	20.16	<=30	Pass	
			13	20.19	0.00	20.19	<=30	Pass	
25			0	20.19	0.00	20.19	<=30	Pass	
1732.5		1	0	20.26	0.00	20.26	<=30	Pass	
			13	20.18	0.00	20.18	<=30	Pass	
			24	20.23	0.00	20.23	<=30	Pass	
		12	0	20.13	0.00	20.13	<=30	Pass	
			6	20.08	0.00	20.08	<=30	Pass	
			13	20.12	0.00	20.12	<=30	Pass	
		25	0	20.11	0.00	20.11	<=30	Pass	
1752.5		1	0	20.09	0.00	20.09	<=30	Pass	
			13	19.98	0.00	19.98	<=30	Pass	
			24	20.03	0.00	20.03	<=30	Pass	
		12	0	20.07	0.00	20.07	<=30	Pass	
			6	20.01	0.00	20.01	<=30	Pass	
			13	20.02	0.00	20.02	<=30	Pass	
		25	0	20.06	0.00	20.06	<=30	Pass	

Note1: EIRP=Conducted Power+Antenna Gain

#### 1.1.4 B4\_10MHz\_EIRP

Band: 4 / Bandwidth: 10MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	1715	1	0	25.24	0.00	25.24	<=30	Pass
			25	25.16	0.00	25.16	<=30	Pass
			49	25.10	0.00	25.10	<=30	Pass
		25	0	24.20	0.00	24.20	<=30	Pass
			13	24.18	0.00	24.18	<=30	Pass
			25	24.19	0.00	24.19	<=30	Pass

		50	0	24.20	0.00	24.20	<=30	Pass		
		1732.5	1	0	25.13	0.00	25.13	<=30	Pass	
				25	25.05	0.00	25.05	<=30	Pass	
				49	25.15	0.00	25.15	<=30	Pass	
				0	24.17	0.00	24.17	<=30	Pass	
		25	13	24.15	0.00	24.15	<=30	Pass		
			25	24.14	0.00	24.14	<=30	Pass		
			0	24.14	0.00	24.14	<=30	Pass		
		1750	1	0	25.10	0.00	25.10	<=30	Pass	
				25	25.03	0.00	25.03	<=30	Pass	
				49	24.96	0.00	24.96	<=30	Pass	
			25	0	24.09	0.00	24.09	<=30	Pass	
				13	24.05	0.00	24.05	<=30	Pass	
				25	24.04	0.00	24.04	<=30	Pass	
			50	0	24.07	0.00	24.07	<=30	Pass	
16QAM	1715		1	0	24.29	0.00	24.29	<=30	Pass	
				25	24.15	0.00	24.15	<=30	Pass	
		49		24.23	0.00	24.23	<=30	Pass		
		25	0	23.28	0.00	23.28	<=30	Pass		
			13	23.22	0.00	23.22	<=30	Pass		
			25	23.24	0.00	23.24	<=30	Pass		
		50	0	23.19	0.00	23.19	<=30	Pass		
		1732.5	1	0	24.25	0.00	24.25	<=30	Pass	
				25	24.13	0.00	24.13	<=30	Pass	
	49			24.18	0.00	24.18	<=30	Pass		
	25		0	23.23	0.00	23.23	<=30	Pass		
			13	23.18	0.00	23.18	<=30	Pass		
			25	23.20	0.00	23.20	<=30	Pass		
	50		0	23.15	0.00	23.15	<=30	Pass		
	1750		1	0	24.16	0.00	24.16	<=30	Pass	
				25	24.05	0.00	24.05	<=30	Pass	
		49		24.10	0.00	24.10	<=30	Pass		
		25	0	23.17	0.00	23.17	<=30	Pass		
			13	23.12	0.00	23.12	<=30	Pass		
			25	23.12	0.00	23.12	<=30	Pass		
		50	0	23.08	0.00	23.08	<=30	Pass		
		64QAM	1715	1	0	23.31	0.00	23.31	<=30	Pass
					25	23.28	0.00	23.28	<=30	Pass
	49				23.39	0.00	23.39	<=30	Pass	
	25			0	22.26	0.00	22.26	<=30	Pass	
				13	22.22	0.00	22.22	<=30	Pass	
				25	22.22	0.00	22.22	<=30	Pass	
50	0			22.16	0.00	22.16	<=30	Pass		
1732.5	1			0	23.38	0.00	23.38	<=30	Pass	
				25	23.27	0.00	23.27	<=30	Pass	
			49	23.31	0.00	23.31	<=30	Pass		
	25		0	22.20	0.00	22.20	<=30	Pass		
			13	22.16	0.00	22.16	<=30	Pass		
			25	22.18	0.00	22.18	<=30	Pass		
	50		0	22.09	0.00	22.09	<=30	Pass		
	1750		1	0	23.25	0.00	23.25	<=30	Pass	
				25	23.26	0.00	23.26	<=30	Pass	
49				23.23	0.00	23.23	<=30	Pass		
25			0	22.15	0.00	22.15	<=30	Pass		
			13	22.09	0.00	22.09	<=30	Pass		
			25	22.09	0.00	22.09	<=30	Pass		
50			0	22.03	0.00	22.03	<=30	Pass		
256QAM			1715	1	0	20.30	0.00	20.30	<=30	Pass
					25	20.08	0.00	20.08	<=30	Pass

	1732.5	25	49	20.18	0.00	20.18	<=30	Pass
			0	20.26	0.00	20.26	<=30	Pass
			13	20.19	0.00	20.19	<=30	Pass
		50	25	20.23	0.00	20.23	<=30	Pass
			0	20.20	0.00	20.20	<=30	Pass
			1	0	20.25	0.00	20.25	<=30
	1750	1	25	20.12	0.00	20.12	<=30	Pass
			49	20.17	0.00	20.17	<=30	Pass
			0	20.18	0.00	20.18	<=30	Pass
		25	13	20.13	0.00	20.13	<=30	Pass
			25	20.17	0.00	20.17	<=30	Pass
			0	20.12	0.00	20.12	<=30	Pass
	1750	1	0	20.17	0.00	20.17	<=30	Pass
			25	19.99	0.00	19.99	<=30	Pass
			49	20.05	0.00	20.05	<=30	Pass
		25	0	20.17	0.00	20.17	<=30	Pass
			13	20.10	0.00	20.10	<=30	Pass
			25	20.11	0.00	20.11	<=30	Pass
50	0	20.07	0.00	20.07	<=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	25.23	0.00	25.23	<=30	Pass	
			38	25.09	0.00	25.09	<=30	Pass	
			74	25.20	0.00	25.20	<=30	Pass	
		36	0	24.13	0.00	24.13	<=30	Pass	
			18	24.09	0.00	24.09	<=30	Pass	
			39	24.11	0.00	24.11	<=30	Pass	
		75	0	24.12	0.00	24.12	<=30	Pass	
		1732.5	1	0	25.18	0.00	25.18	<=30	Pass
				38	25.04	0.00	25.04	<=30	Pass
	74			25.10	0.00	25.10	<=30	Pass	
	36		0	24.09	0.00	24.09	<=30	Pass	
			18	24.06	0.00	24.06	<=30	Pass	
			39	24.06	0.00	24.06	<=30	Pass	
	75	0	24.08	0.00	24.08	<=30	Pass		
	1747.5	1	0	25.07	0.00	25.07	<=30	Pass	
			38	25.00	0.00	25.00	<=30	Pass	
			74	25.01	0.00	25.01	<=30	Pass	
		36	0	24.07	0.00	24.07	<=30	Pass	
			18	24.01	0.00	24.01	<=30	Pass	
			39	24.03	0.00	24.03	<=30	Pass	
	75	0	24.04	0.00	24.04	<=30	Pass		
	16QAM	1717.5	1	0	24.79	0.00	24.79	<=30	Pass
				38	24.70	0.00	24.70	<=30	Pass
				74	24.69	0.00	24.69	<=30	Pass
36			0	23.17	0.00	23.17	<=30	Pass	
			18	23.12	0.00	23.12	<=30	Pass	
			39	23.14	0.00	23.14	<=30	Pass	
75		0	23.16	0.00	23.16	<=30	Pass		
1732.5		1	0	24.42	0.00	24.42	<=30	Pass	
			38	24.29	0.00	24.29	<=30	Pass	
			74	24.33	0.00	24.33	<=30	Pass	

		36	0	23.10	0.00	23.10	<=30	Pass	
			18	23.08	0.00	23.08	<=30	Pass	
			39	23.09	0.00	23.09	<=30	Pass	
		75	0	23.11	0.00	23.11	<=30	Pass	
			1	0	24.51	0.00	24.51	<=30	Pass
				38	24.43	0.00	24.43	<=30	Pass
	74	24.49		0.00	24.49	<=30	Pass		
	1747.5	36	0	23.06	0.00	23.06	<=30	Pass	
			18	23.01	0.00	23.01	<=30	Pass	
			39	23.00	0.00	23.00	<=30	Pass	
	75	0	23.05	0.00	23.05	<=30	Pass		
	64QAM	1717.5	1	0	23.52	0.00	23.52	<=30	Pass
38				23.34	0.00	23.34	<=30	Pass	
74				23.40	0.00	23.40	<=30	Pass	
36			0	22.16	0.00	22.16	<=30	Pass	
			18	22.12	0.00	22.12	<=30	Pass	
			39	22.14	0.00	22.14	<=30	Pass	
75			0	22.14	0.00	22.14	<=30	Pass	
1732.5			1	0	23.42	0.00	23.42	<=30	Pass
				38	23.31	0.00	23.31	<=30	Pass
		74		23.32	0.00	23.32	<=30	Pass	
		36	0	22.16	0.00	22.16	<=30	Pass	
			18	22.12	0.00	22.12	<=30	Pass	
			39	22.11	0.00	22.11	<=30	Pass	
75		0	22.11	0.00	22.11	<=30	Pass		
1747.5		1	0	23.79	0.00	23.79	<=30	Pass	
			38	23.66	0.00	23.66	<=30	Pass	
			74	23.60	0.00	23.60	<=30	Pass	
		36	0	22.09	0.00	22.09	<=30	Pass	
			18	22.03	0.00	22.03	<=30	Pass	
			39	22.03	0.00	22.03	<=30	Pass	
75		0	22.07	0.00	22.07	<=30	Pass		
256QAM		1717.5	1	0	20.68	0.00	20.68	<=30	Pass
				38	20.52	0.00	20.52	<=30	Pass
				74	20.60	0.00	20.60	<=30	Pass
	36		0	20.14	0.00	20.14	<=30	Pass	
			18	20.13	0.00	20.13	<=30	Pass	
			39	20.12	0.00	20.12	<=30	Pass	
	75		0	20.15	0.00	20.15	<=30	Pass	
	1732.5		1	0	19.95	0.00	19.95	<=30	Pass
				38	19.85	0.00	19.85	<=30	Pass
		74		19.90	0.00	19.90	<=30	Pass	
		36	0	20.08	0.00	20.08	<=30	Pass	
			18	20.04	0.00	20.04	<=30	Pass	
			39	20.04	0.00	20.04	<=30	Pass	
	75	0	20.06	0.00	20.06	<=30	Pass		
	1747.5	1	0	20.38	0.00	20.38	<=30	Pass	
			38	20.25	0.00	20.25	<=30	Pass	
			74	20.29	0.00	20.29	<=30	Pass	
		36	0	20.04	0.00	20.04	<=30	Pass	
			18	19.98	0.00	19.98	<=30	Pass	
			39	20.00	0.00	20.00	<=30	Pass	
	75	0	20.03	0.00	20.03	<=30	Pass		

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	25.17	0.00	25.17	<=30	Pass		
			50	25.06	0.00	25.06	<=30	Pass		
			99	25.13	0.00	25.13	<=30	Pass		
		50	0	24.19	0.00	24.19	<=30	Pass		
			25	24.14	0.00	24.14	<=30	Pass		
			50	24.17	0.00	24.17	<=30	Pass		
		100	0	24.19	0.00	24.19	<=30	Pass		
		1732.5	1	0	25.21	0.00	25.21	<=30	Pass	
				50	25.01	0.00	25.01	<=30	Pass	
	99			25.04	0.00	25.04	<=30	Pass		
	50		0	24.16	0.00	24.16	<=30	Pass		
			25	24.12	0.00	24.12	<=30	Pass		
			50	24.14	0.00	24.14	<=30	Pass		
	100		0	24.14	0.00	24.14	<=30	Pass		
	1745		1	0	25.18	0.00	25.18	<=30	Pass	
				50	25.00	0.00	25.00	<=30	Pass	
		99		25.03	0.00	25.03	<=30	Pass		
		50	0	24.14	0.00	24.14	<=30	Pass		
			25	24.09	0.00	24.09	<=30	Pass		
			50	24.08	0.00	24.08	<=30	Pass		
		100	0	24.10	0.00	24.10	<=30	Pass		
		16QAM	1720	1	0	24.49	0.00	24.49	<=30	Pass
					50	24.33	0.00	24.33	<=30	Pass
	99				24.32	0.00	24.32	<=30	Pass	
50	0			23.17	0.00	23.17	<=30	Pass		
	25			23.10	0.00	23.10	<=30	Pass		
	50			23.12	0.00	23.12	<=30	Pass		
100	0			23.16	0.00	23.16	<=30	Pass		
1732.5	1			0	24.43	0.00	24.43	<=30	Pass	
				50	24.26	0.00	24.26	<=30	Pass	
			99	24.38	0.00	24.38	<=30	Pass		
	50		0	23.15	0.00	23.15	<=30	Pass		
			25	23.12	0.00	23.12	<=30	Pass		
			50	23.11	0.00	23.11	<=30	Pass		
	100		0	23.11	0.00	23.11	<=30	Pass		
	1745		1	0	24.83	0.00	24.83	<=30	Pass	
				50	24.64	0.00	24.64	<=30	Pass	
99				24.73	0.00	24.73	<=30	Pass		
50			0	23.11	0.00	23.11	<=30	Pass		
			25	23.05	0.00	23.05	<=30	Pass		
			50	23.04	0.00	23.04	<=30	Pass		
100			0	23.08	0.00	23.08	<=30	Pass		
64QAM			1720	1	0	23.62	0.00	23.62	<=30	Pass
					50	23.55	0.00	23.55	<=30	Pass
	99				23.56	0.00	23.56	<=30	Pass	
	50	0		22.24	0.00	22.24	<=30	Pass		
		25		22.18	0.00	22.18	<=30	Pass		
		50		22.21	0.00	22.21	<=30	Pass		
	100	0		22.17	0.00	22.17	<=30	Pass		
	1732.5	1		0	23.82	0.00	23.82	<=30	Pass	
				50	23.69	0.00	23.69	<=30	Pass	
			99	23.71	0.00	23.71	<=30	Pass		
		50	0	22.17	0.00	22.17	<=30	Pass		
			25	22.12	0.00	22.12	<=30	Pass		
			50	22.15	0.00	22.15	<=30	Pass		
	100	0	22.11	0.00	22.11	<=30	Pass			

	1745	1	0	23.44	0.00	23.44	<=30	Pass		
			50	23.32	0.00	23.32	<=30	Pass		
			99	23.35	0.00	23.35	<=30	Pass		
		50	0	22.13	0.00	22.13	<=30	Pass		
			25	22.07	0.00	22.07	<=30	Pass		
			50	22.07	0.00	22.07	<=30	Pass		
		100	0	22.11	0.00	22.11	<=30	Pass		
		256QAM	1720	1	0	20.45	0.00	20.45	<=30	Pass
					50	20.34	0.00	20.34	<=30	Pass
99	20.36				0.00	20.36	<=30	Pass		
50	0			20.15	0.00	20.15	<=30	Pass		
	25			20.10	0.00	20.10	<=30	Pass		
	50			20.12	0.00	20.12	<=30	Pass		
100	0			20.13	0.00	20.13	<=30	Pass		
1732.5	1			0	20.44	0.00	20.44	<=30	Pass	
				50	20.31	0.00	20.31	<=30	Pass	
			99	20.34	0.00	20.34	<=30	Pass		
	50		0	20.11	0.00	20.11	<=30	Pass		
			25	20.06	0.00	20.06	<=30	Pass		
			50	20.08	0.00	20.08	<=30	Pass		
	100		0	20.06	0.00	20.06	<=30	Pass		
	1745		1	0	20.16	0.00	20.16	<=30	Pass	
				50	20.02	0.00	20.02	<=30	Pass	
99				20.04	0.00	20.04	<=30	Pass		
50			0	20.14	0.00	20.14	<=30	Pass		
			25	20.07	0.00	20.07	<=30	Pass		
			50	20.07	0.00	20.07	<=30	Pass		
100			0	20.08	0.00	20.08	<=30	Pass		
Note1: EIRP=Conducted Power+Antenna Gain										

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 B4\_10MHz

Band: 4 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1732.5	50	0	20	LV	1.100	0.0006	-2.5 to 2.5	Pass
					NV	0.200	0.0001	-2.5 to 2.5	Pass
					HV	2.400	0.0014	-2.5 to 2.5	Pass
				-30	NV	1.000	0.0006	-2.5 to 2.5	Pass
				-20	NV	1.000	0.0006	-2.5 to 2.5	Pass
				-10	NV	-1.200	-0.0007	-2.5 to 2.5	Pass
				0	NV	1.700	0.0010	-2.5 to 2.5	Pass
				10	NV	1.000	0.0006	-2.5 to 2.5	Pass
				30	NV	2.000	0.0012	-2.5 to 2.5	Pass
				40	NV	0.200	0.0001	-2.5 to 2.5	Pass
				50	NV	1.300	0.0008	-2.5 to 2.5	Pass

### 3. 99% & 26dB Bandwidth

#### 3.1 Test Result

##### 3.1.1 Band4\_OBW

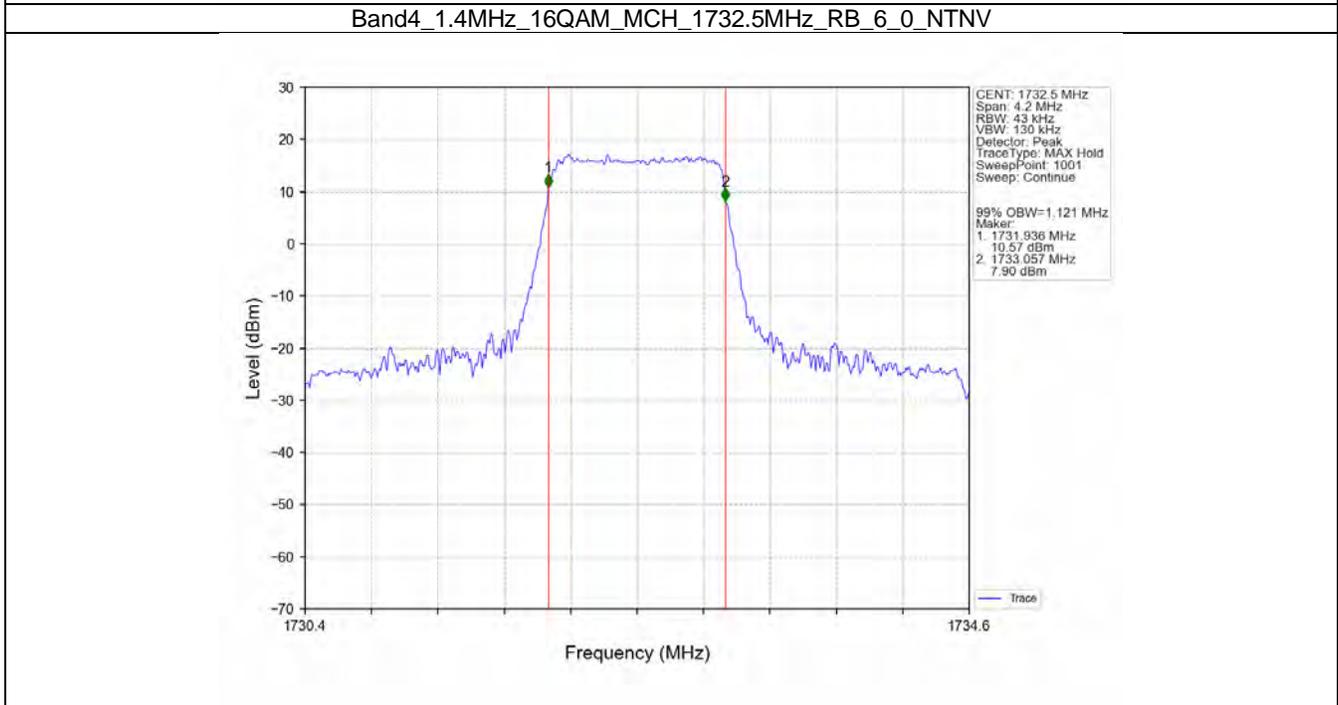
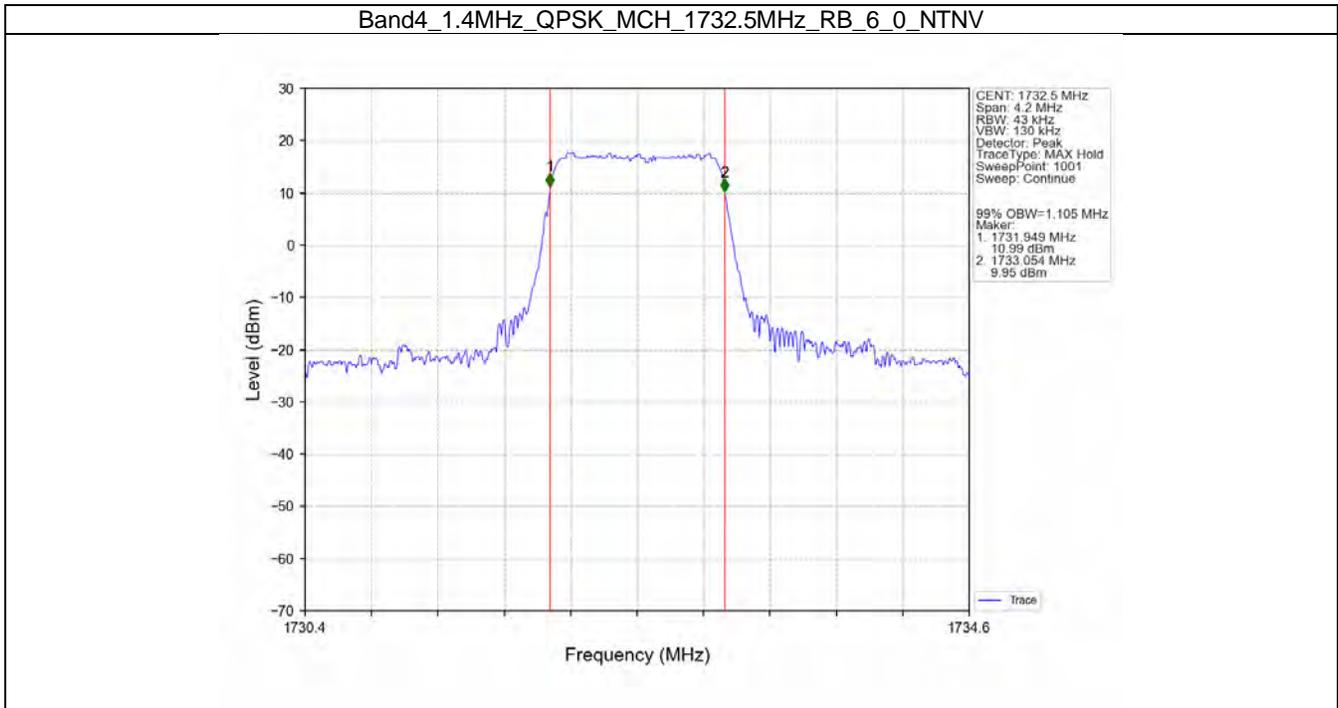
Band: 4 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1732.5	6	0	1.105	/	Pass
	16QAM	1732.5	6	0	1.121	/	Pass
3	QPSK	1732.5	15	0	2.738	/	Pass
	16QAM	1732.5	15	0	2.751	/	Pass
5	QPSK	1732.5	25	0	4.553	/	Pass
	16QAM	1732.5	25	0	4.545	/	Pass
10	QPSK	1732.5	50	0	9.057	/	Pass
	16QAM	1732.5	50	0	9.045	/	Pass
15	QPSK	1732.5	75	0	13.622	/	Pass
	16QAM	1732.5	75	0	13.609	/	Pass
20	QPSK	1732.5	100	0	18.138	/	Pass
	16QAM	1732.5	100	0	18.128	/	Pass

##### 3.1.2 Band4\_XDB

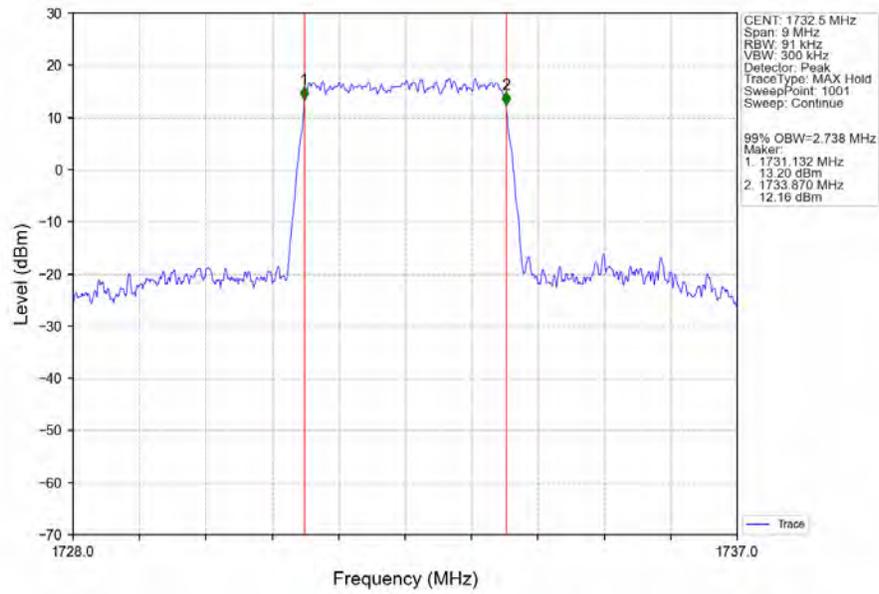
Band: 4 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	1732.5	6	0	1.326	/	Pass
	16QAM	1732.5	6	0	1.347	/	Pass
3	QPSK	1732.5	15	0	3.048	/	Pass
	16QAM	1732.5	15	0	3.027	/	Pass
5	QPSK	1732.5	25	0	5.060	/	Pass
	16QAM	1732.5	25	0	5.593	/	Pass
10	QPSK	1732.5	50	0	10.088	/	Pass
	16QAM	1732.5	50	0	9.951	/	Pass
15	QPSK	1732.5	75	0	14.986	/	Pass
	16QAM	1732.5	75	0	15.016	/	Pass
20	QPSK	1732.5	100	0	19.762	/	Pass
	16QAM	1732.5	100	0	19.775	/	Pass

### 3.2 Test Graph

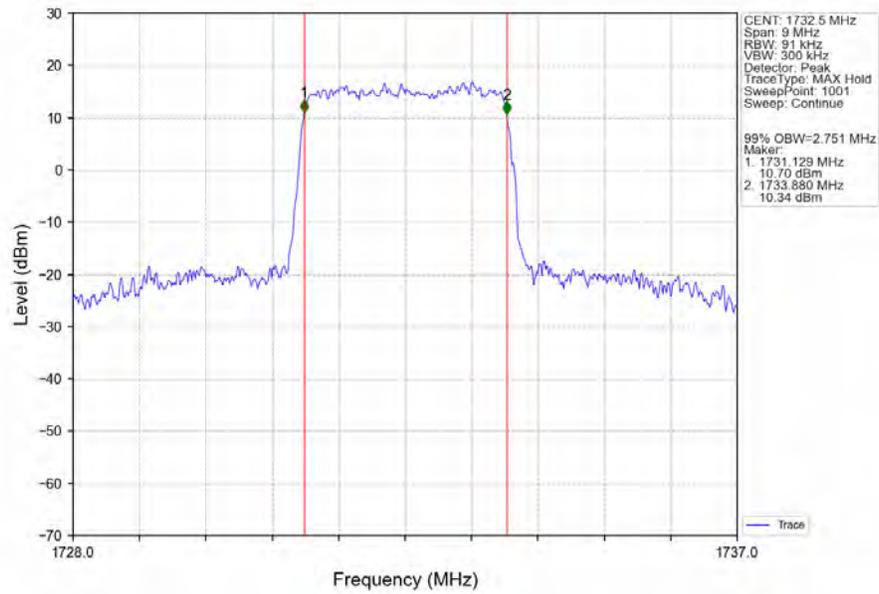
#### 3.2.1 Band4\_OBW



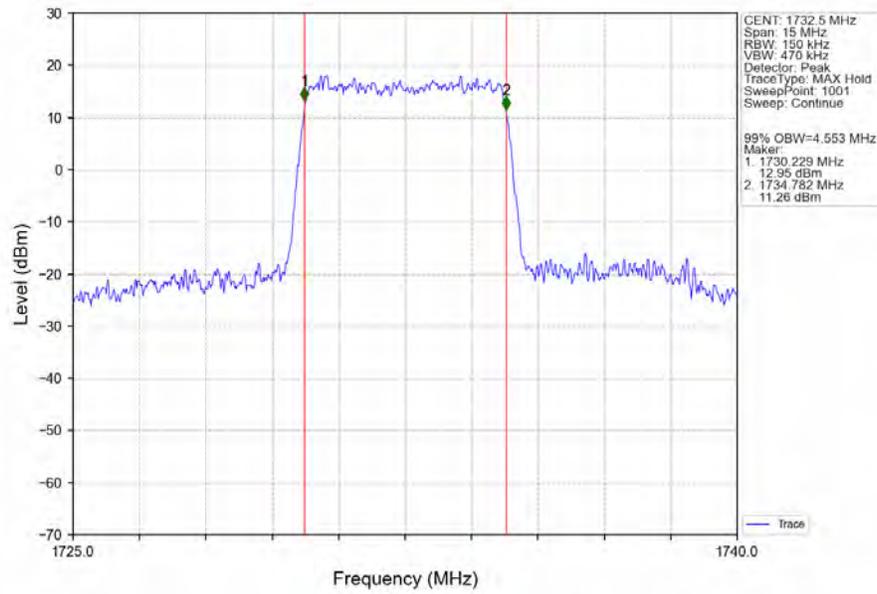
Band4\_3MHz\_QPSK\_MCH\_1732.5MHz\_RB\_15\_0\_NTNV



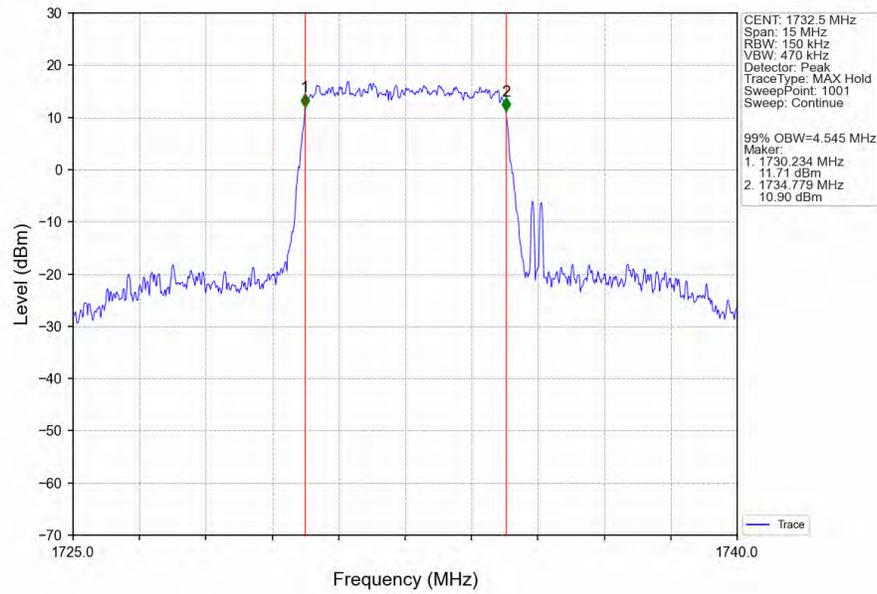
Band4\_3MHz\_16QAM\_MCH\_1732.5MHz\_RB\_15\_0\_NTNV



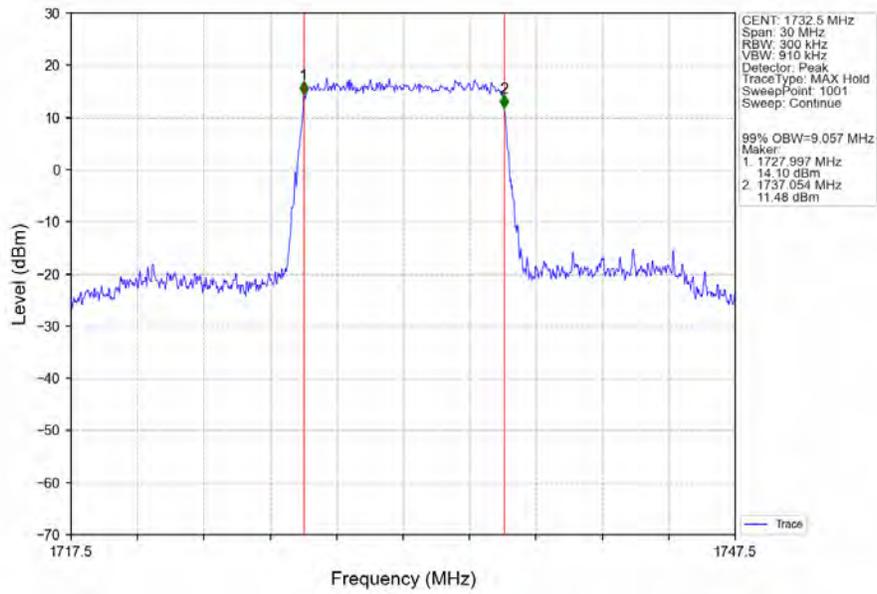
Band4\_5MHz\_QPSK\_MCH\_1732.5MHz\_RB\_25\_0\_NTNV



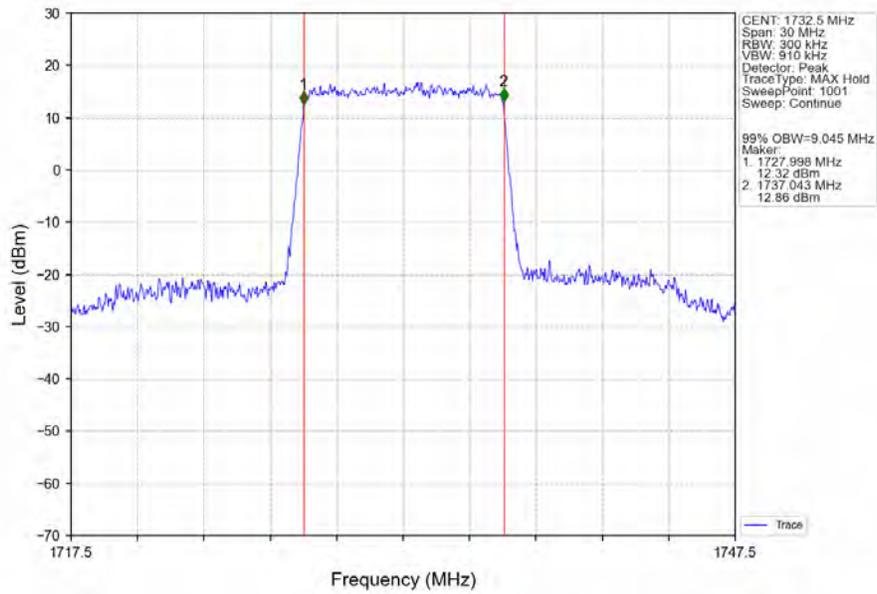
Band4\_5MHz\_16QAM\_MCH\_1732.5MHz\_RB\_25\_0\_NTNV



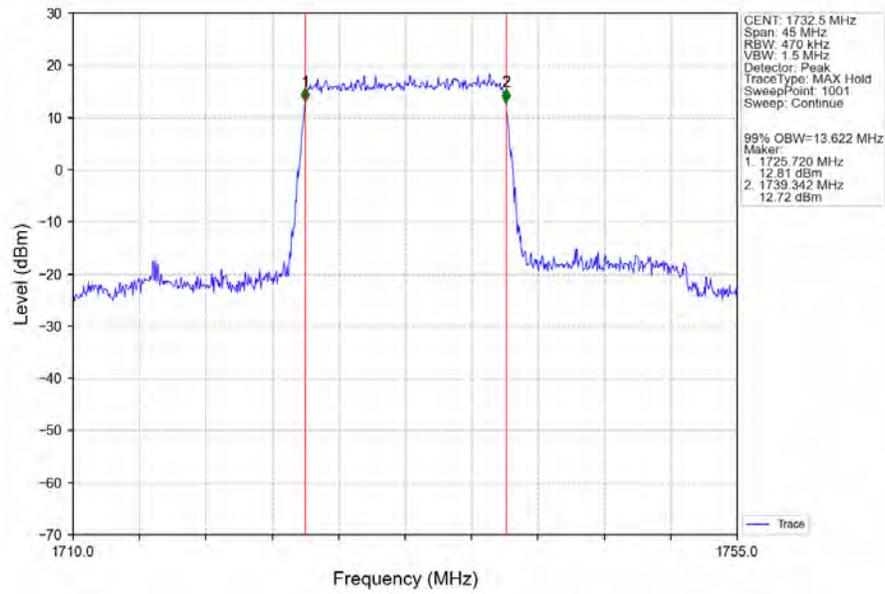
Band4\_10MHz\_QPSK\_MCH\_1732.5MHz\_RB\_50\_0\_NTNV



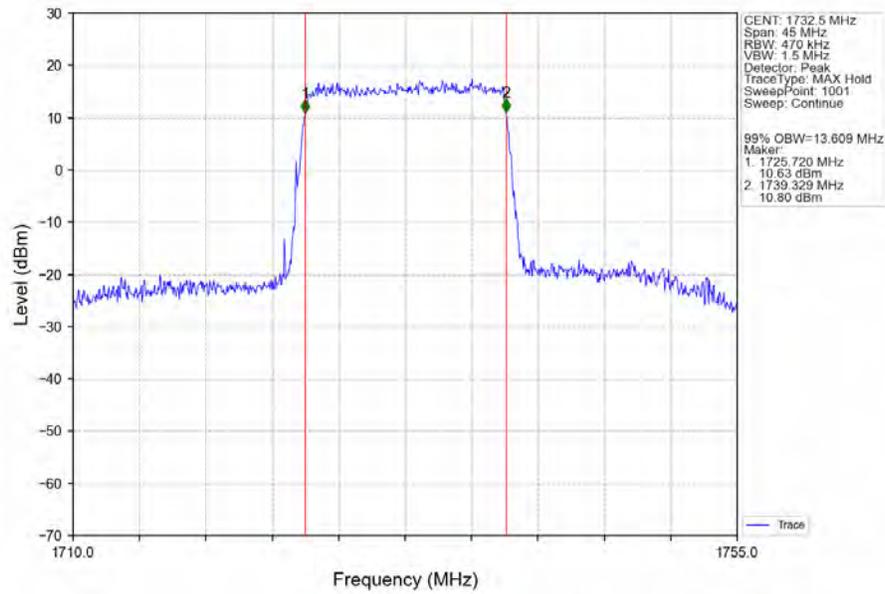
Band4\_10MHz\_16QAM\_MCH\_1732.5MHz\_RB\_50\_0\_NTNV



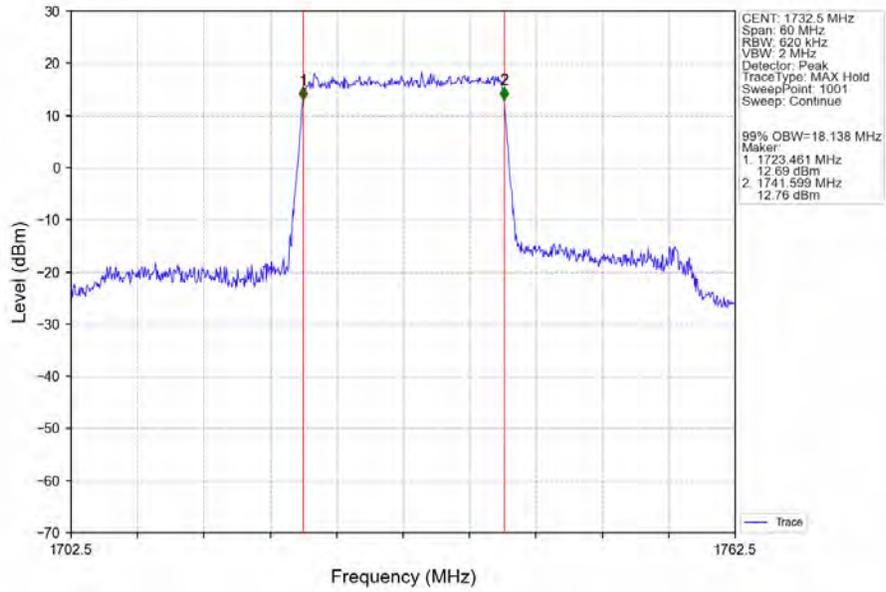
Band4\_15MHz\_QPSK\_MCH\_1732.5MHz\_RB\_75\_0\_NTNV



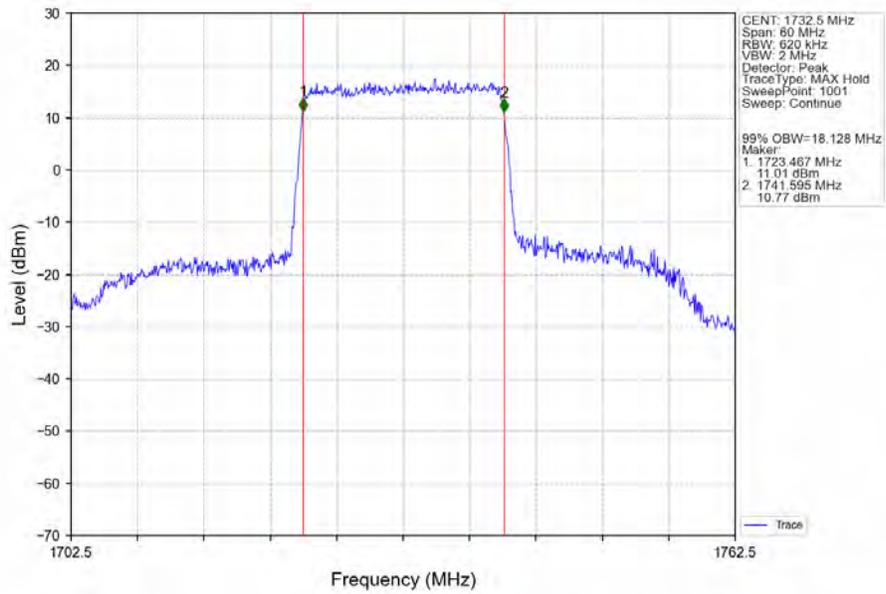
Band4\_15MHz\_16QAM\_MCH\_1732.5MHz\_RB\_75\_0\_NTNV



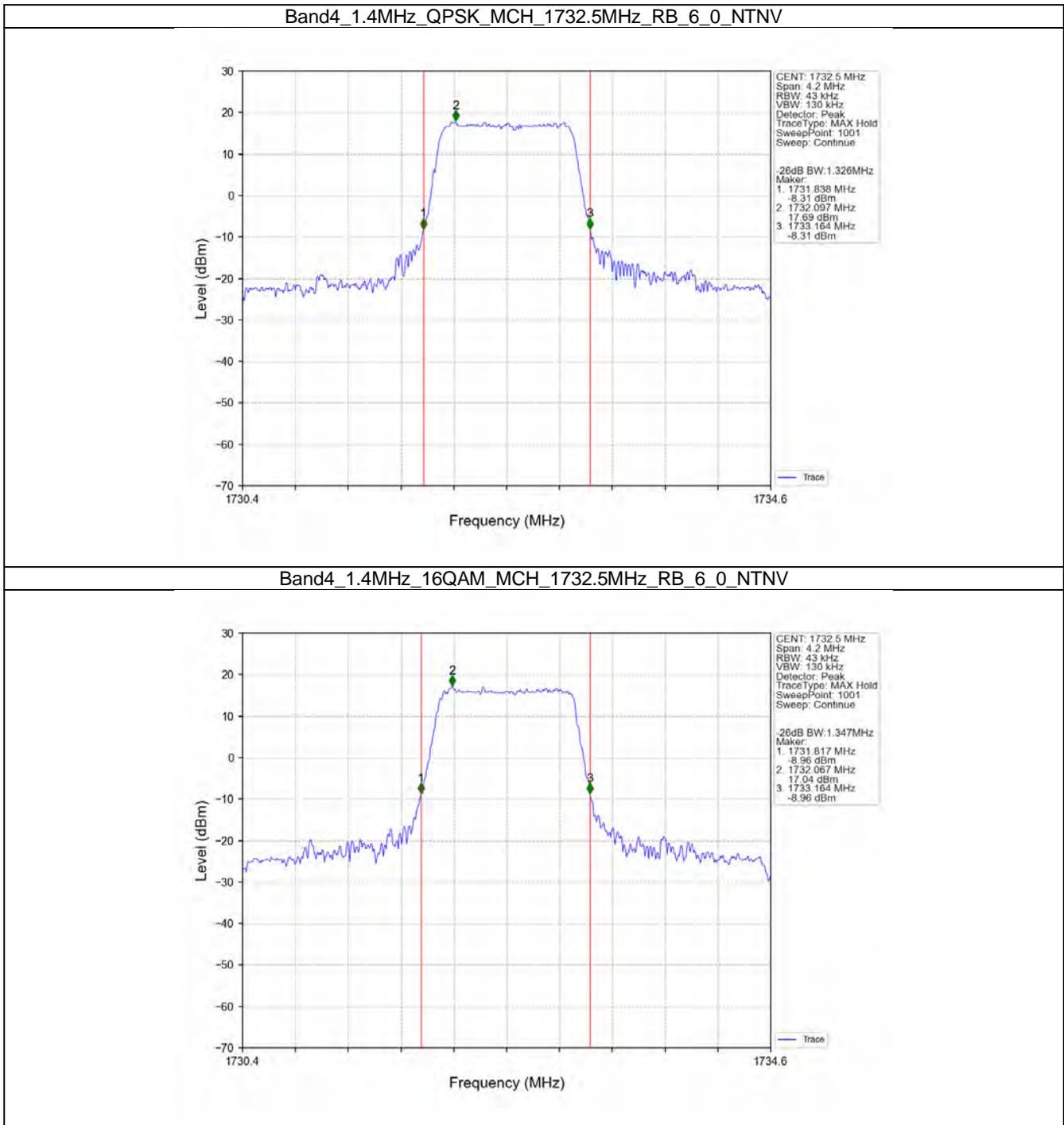
Band4\_20MHz\_QPSK\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV



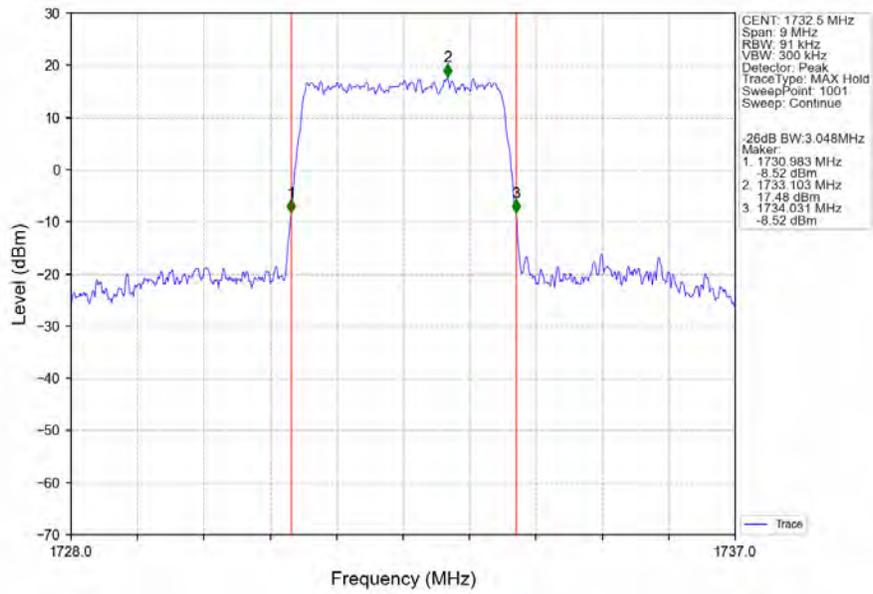
Band4\_20MHz\_16QAM\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV



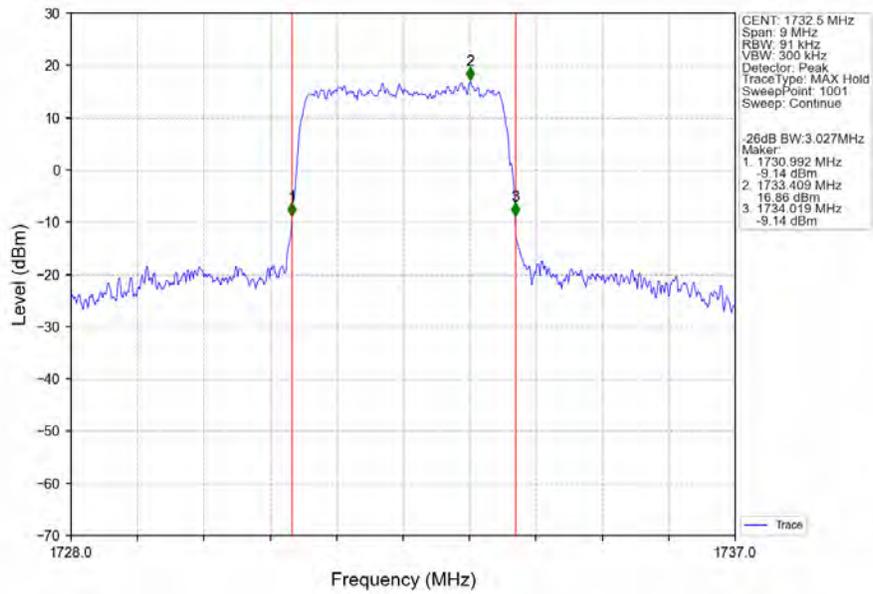
### 3.2.2 Band4\_XDB



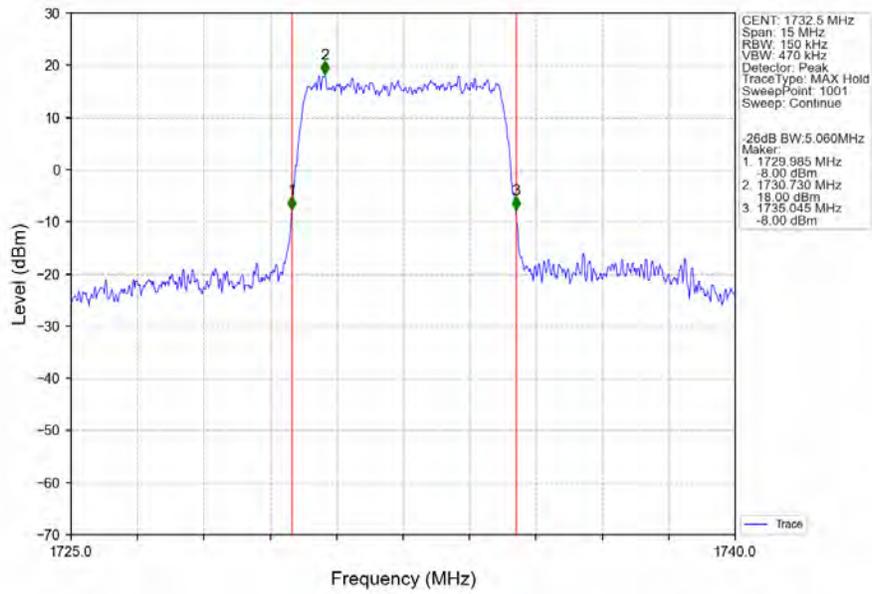
Band4\_3MHz\_QPSK\_MCH\_1732.5MHz\_RB\_15\_0\_NTNV



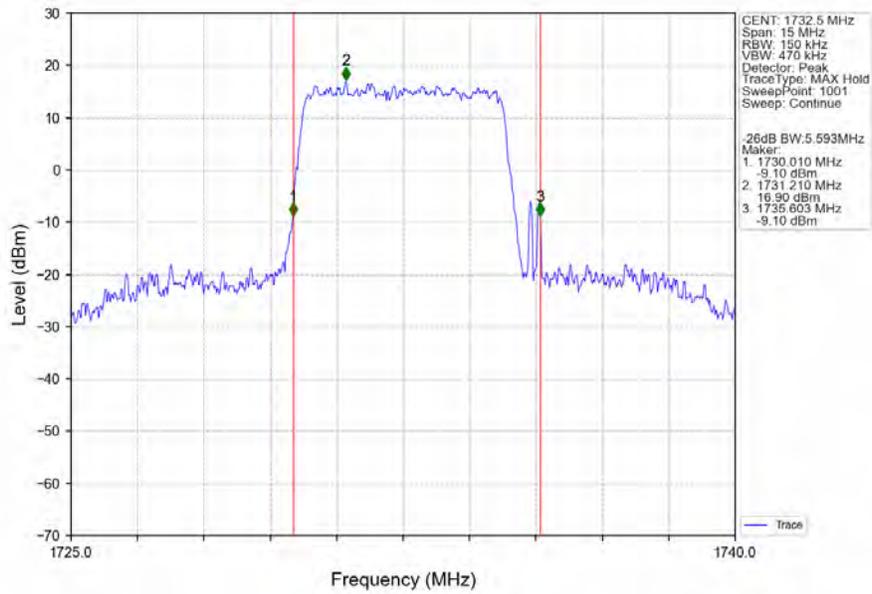
Band4\_3MHz\_16QAM\_MCH\_1732.5MHz\_RB\_15\_0\_NTNV



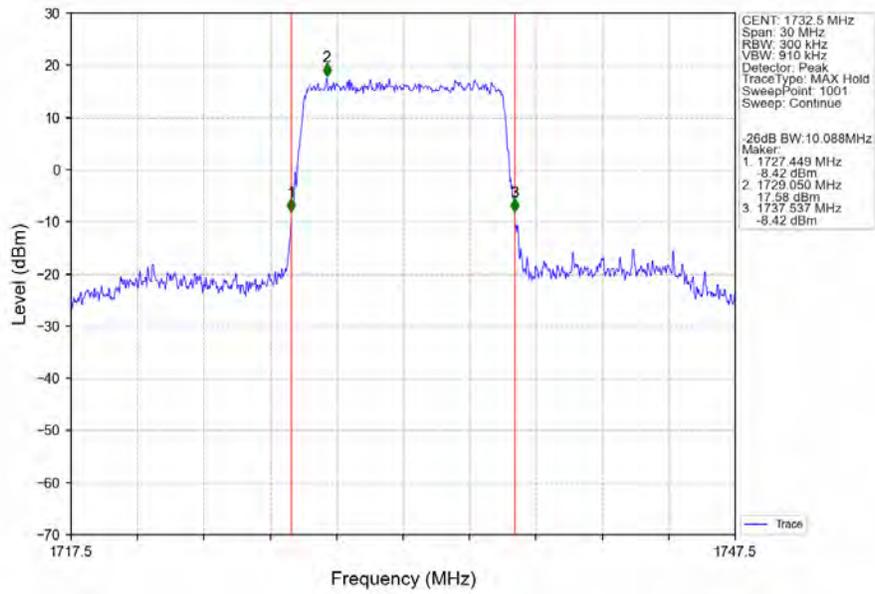
Band4\_5MHz\_QPSK\_MCH\_1732.5MHz\_RB\_25\_0\_NTNV



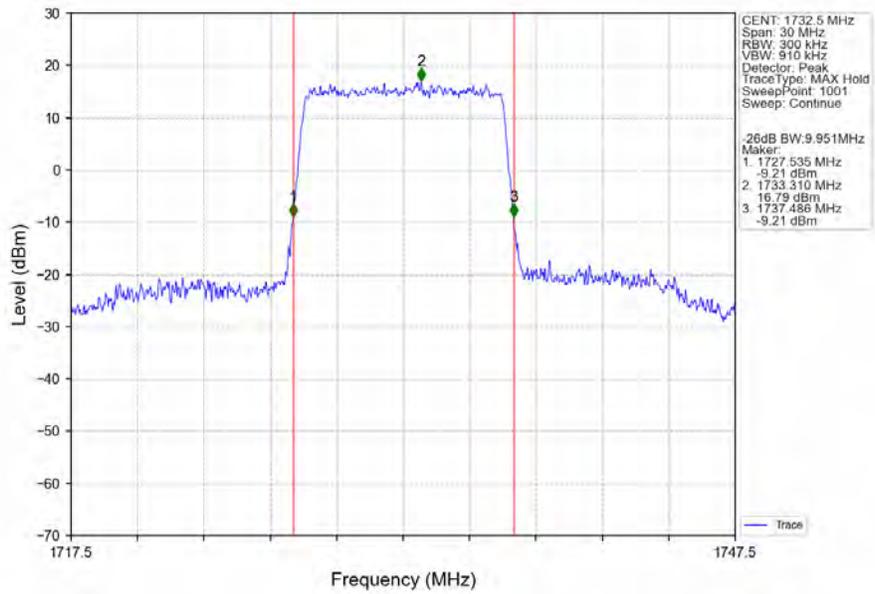
Band4\_5MHz\_16QAM\_MCH\_1732.5MHz\_RB\_25\_0\_NTNV



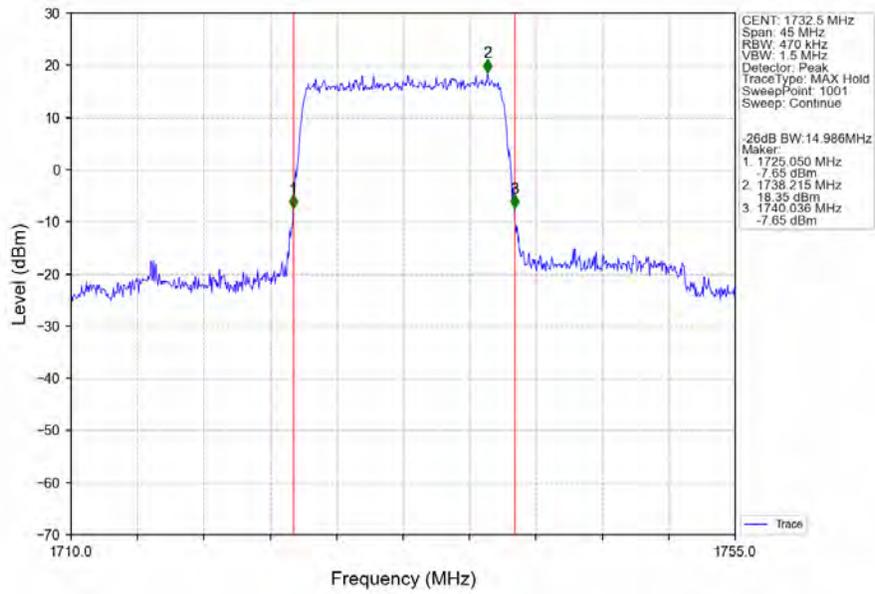
Band4\_10MHz\_QPSK\_MCH\_1732.5MHz\_RB\_50\_0\_NTNV



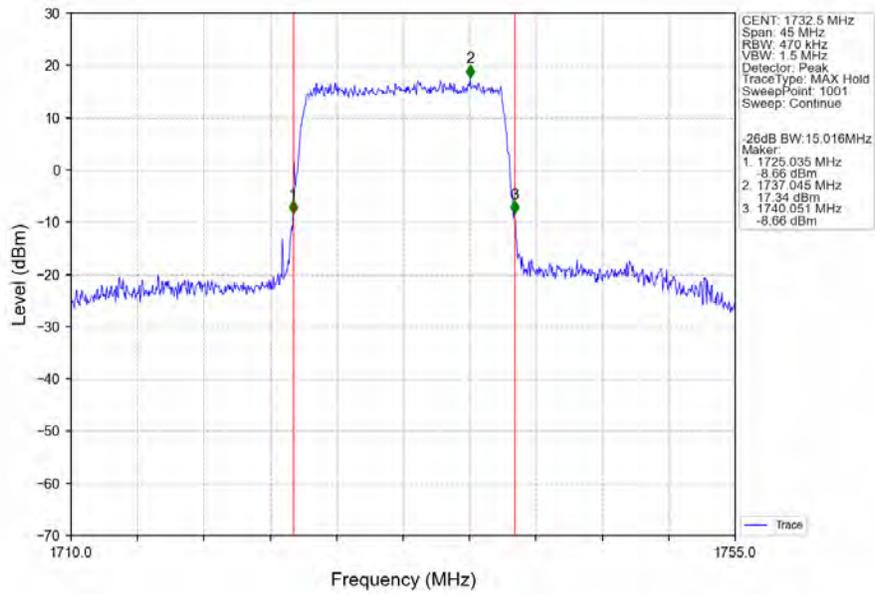
Band4\_10MHz\_16QAM\_MCH\_1732.5MHz\_RB\_50\_0\_NTNV



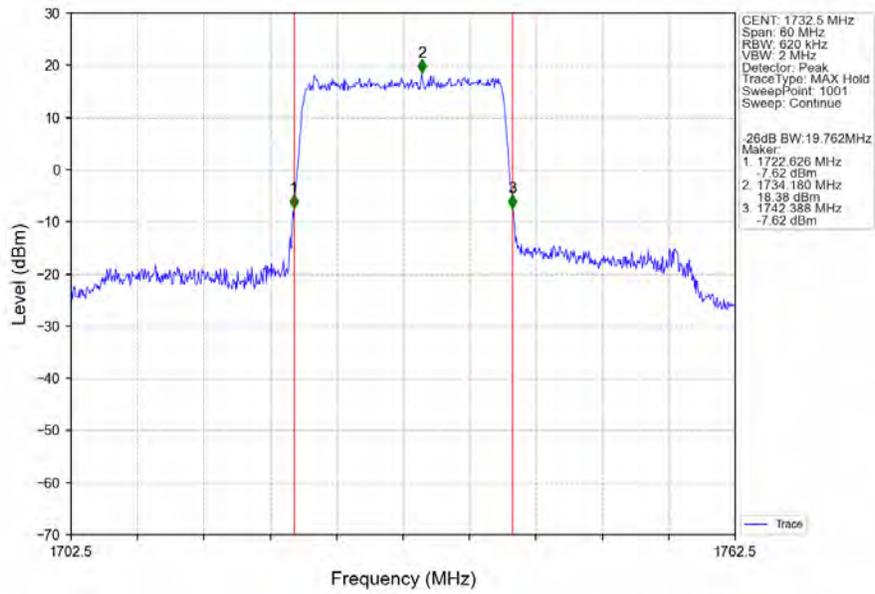
Band4\_15MHz\_QPSK\_MCH\_1732.5MHz\_RB\_75\_0\_NTNV



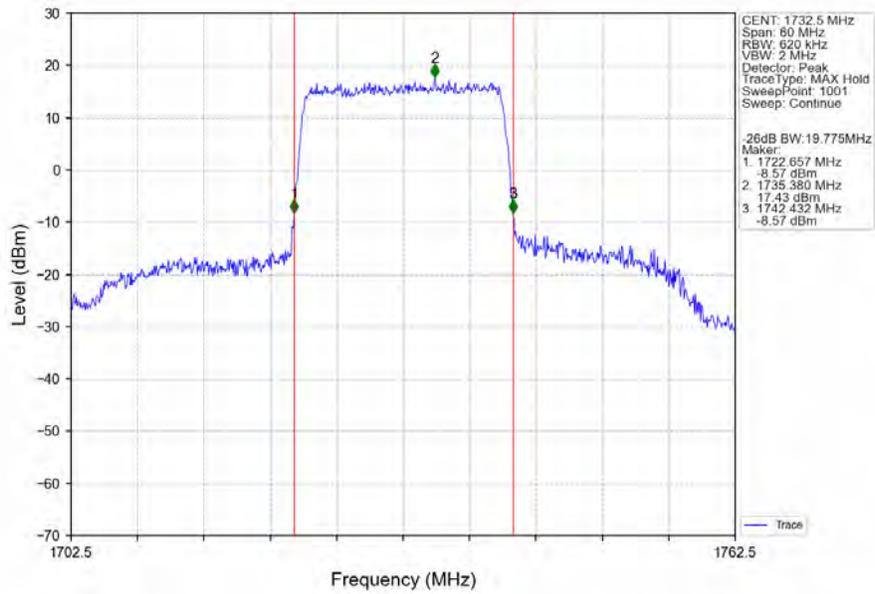
Band4\_15MHz\_16QAM\_MCH\_1732.5MHz\_RB\_75\_0\_NTNV



Band4\_20MHz\_QPSK\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV



Band4\_20MHz\_16QAM\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV



## 4. Peak-Average Ratio

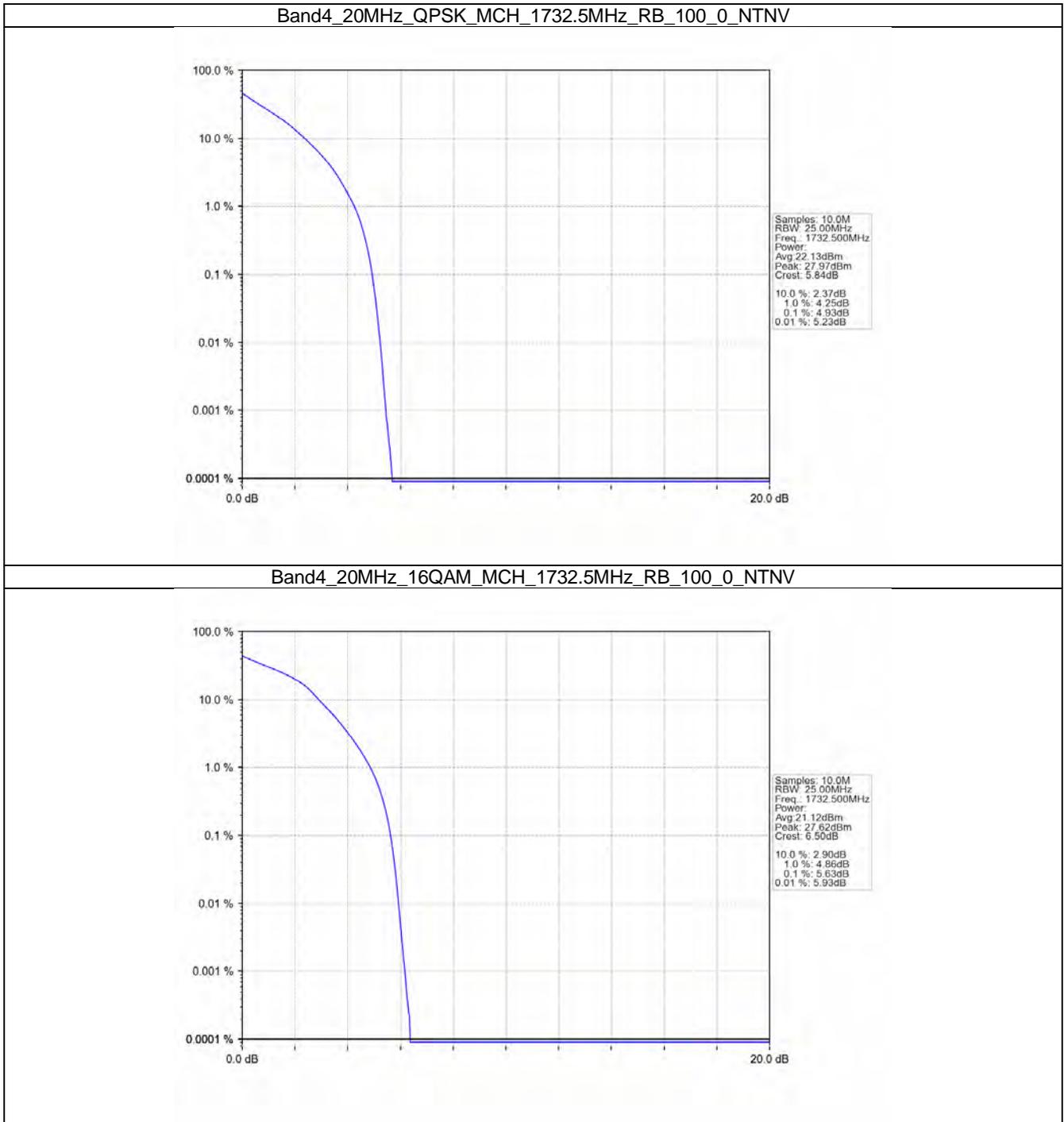
### 4.1 Test Result

#### 4.1.1 B4\_20MHz

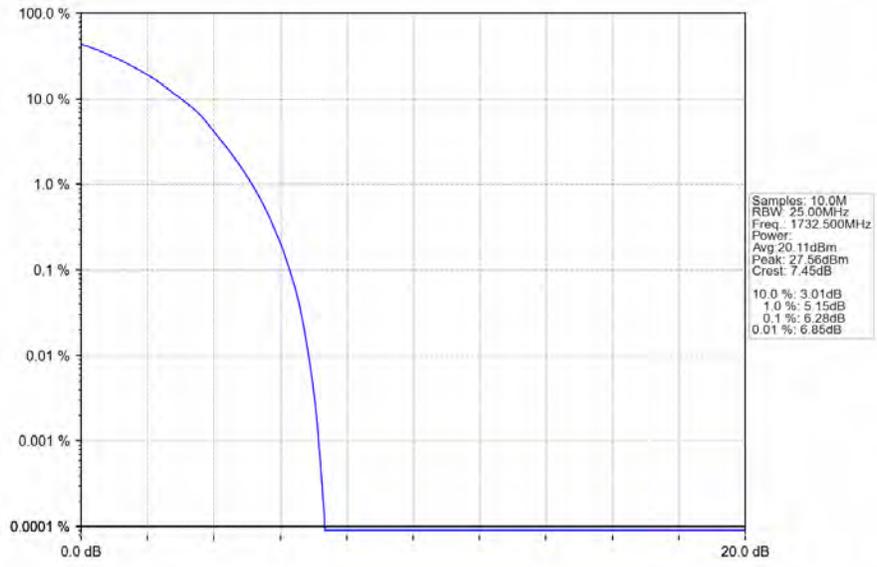
Band: 4 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	1732.5	100	0	4.93	<=13	Pass
16QAM	1732.5	100	0	5.63	<=13	Pass
64QAM	1732.5	100	0	6.28	<=13	Pass
256QAM	1732.5	100	0	6.11	<=13	Pass

## 4.2 Test Graph

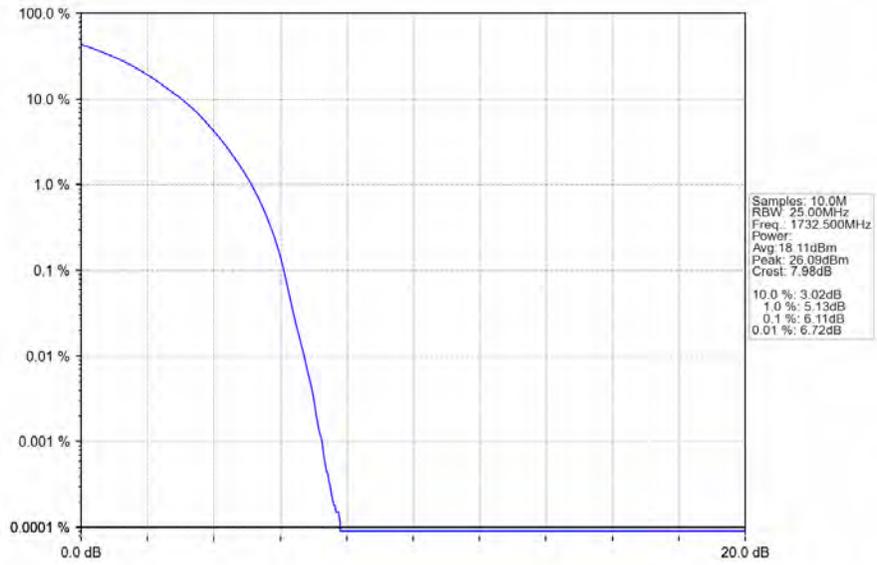
### 4.2.1 B4\_20MHz



Band4\_20MHz\_64QAM\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV



Band4\_20MHz\_256QAM\_MCH\_1732.5MHz\_RB\_100\_0\_NTNV



## 5. Spurious Emission

### 5.1 Test Result

#### 5.1.1 B4\_1.4MHz

Band: 4 / Bandwidth: 1.4MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1710.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1754.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

#### 5.1.2 B4\_3MHz

Band: 4 / Bandwidth: 3MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1711.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1753.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

#### 5.1.3 B4\_5MHz

Band: 4 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1712.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1752.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

#### 5.1.4 B4\_10MHz

Band: 4 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1715	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
	1750	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

### 5.1.5 B4\_15MHz

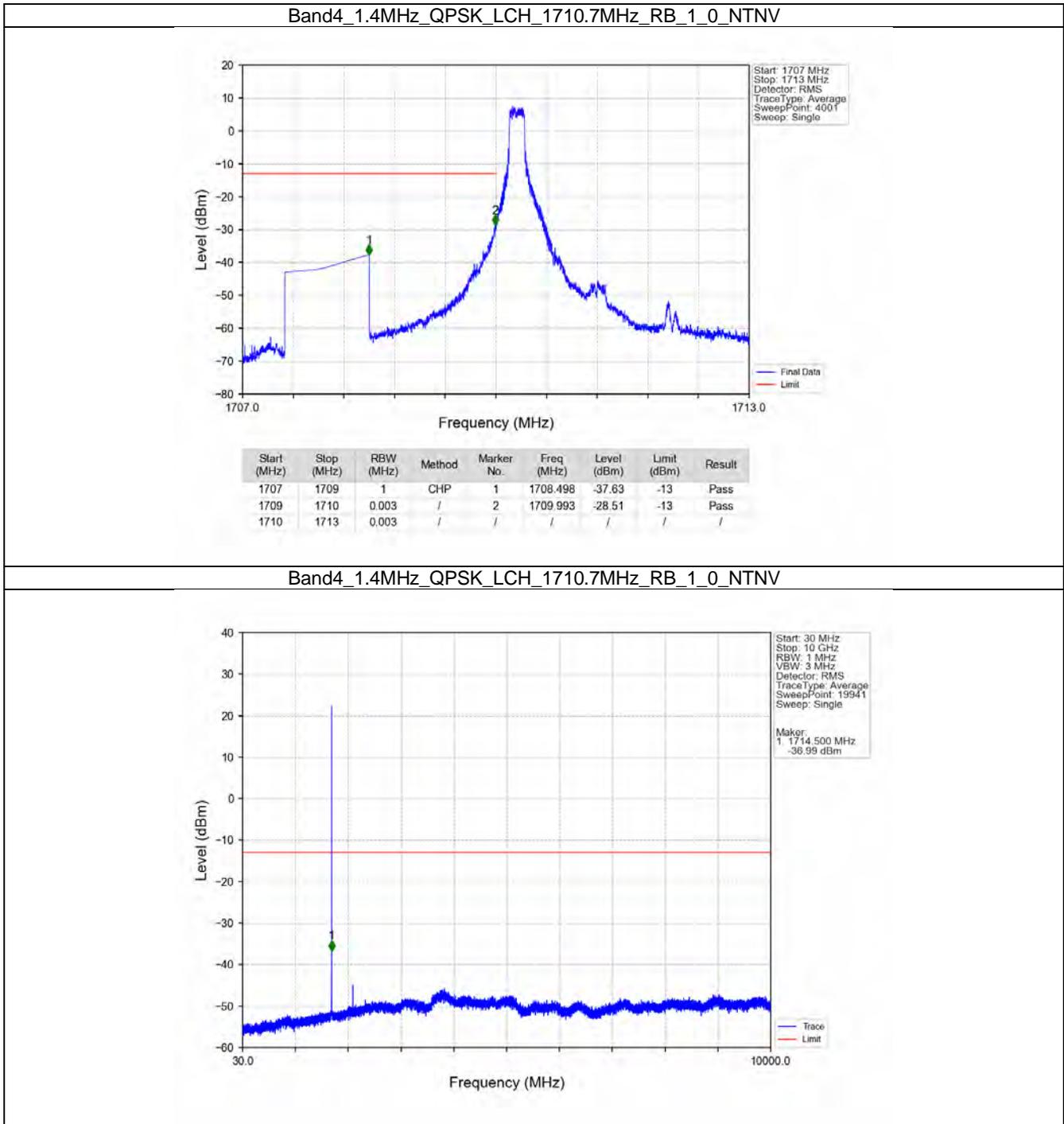
Band: 4 / Bandwidth: 15MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1717.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
		1747.5	1	0	Refer To Test Graph	
				74	Refer To Test Graph	
			75	0	Refer To Test Graph	

### 5.1.6 B4\_20MHz

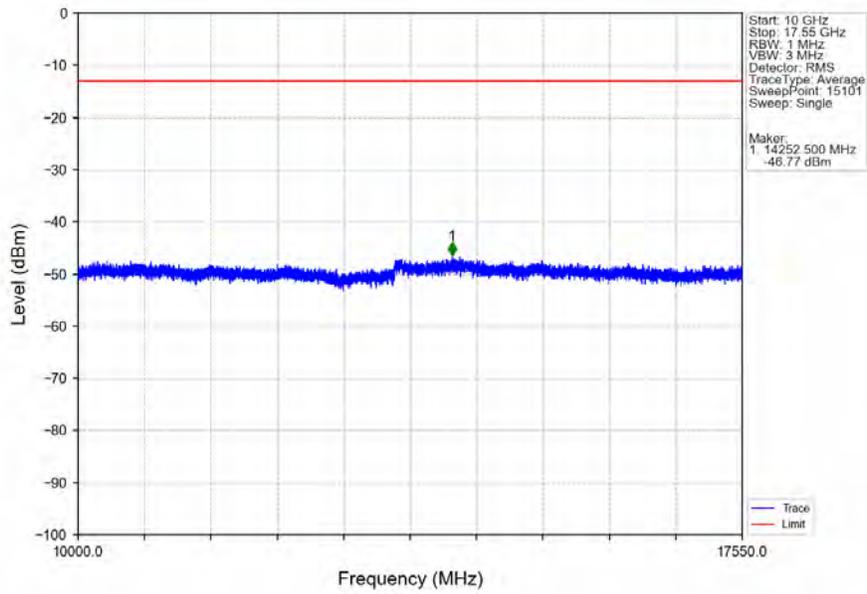
Band: 4 / Bandwidth: 20MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1720	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	1732.5	1	0	Refer To Test Graph		Pass
		1745	1	0	Refer To Test Graph	
	99			Refer To Test Graph		Pass
			100	0	Refer To Test Graph	

## 5.2 Test Graph

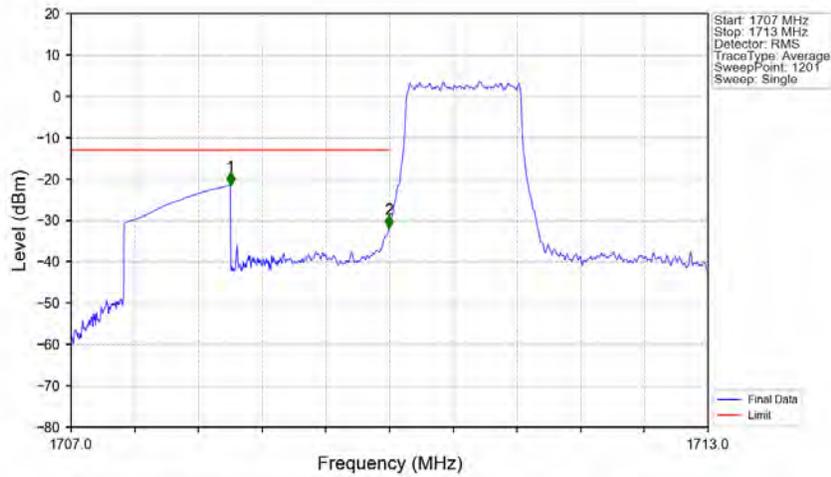
### 5.2.1 B4\_1.4MHz



Band4\_1.4MHz\_QPSK\_LCH\_1710.7MHz\_RB\_1\_0\_NTNV

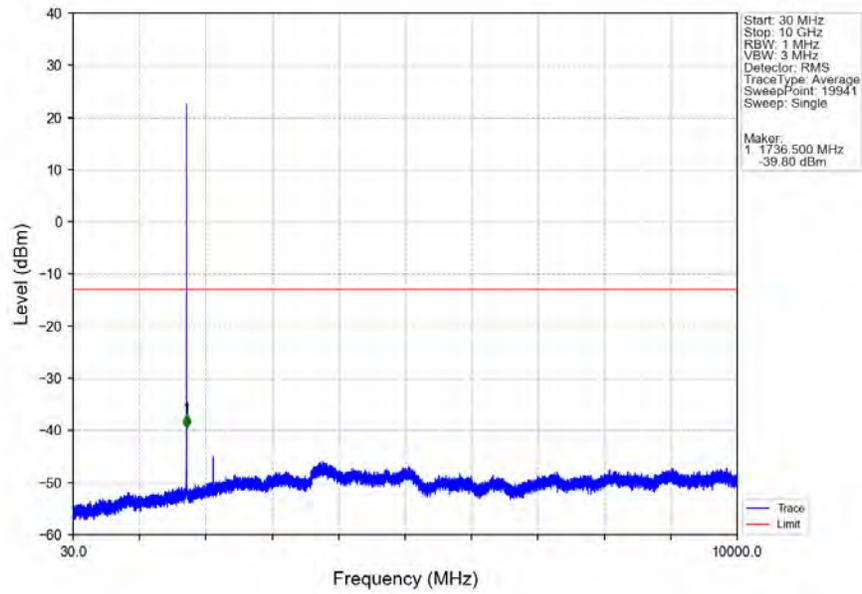


Band4\_1.4MHz\_QPSK\_LCH\_1710.7MHz\_RB\_6\_0\_NTNV

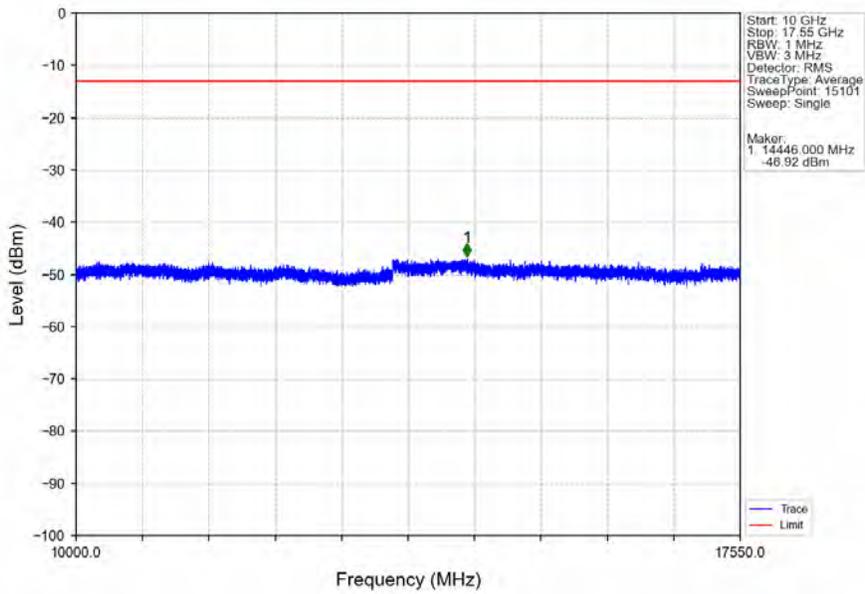


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.500	-21.56	-13	Pass
1709	1710	0.013	CHP	2	1709.995	-31.78	-13	Pass
1710	1713	0.013	CHP	/	/	/	/	/

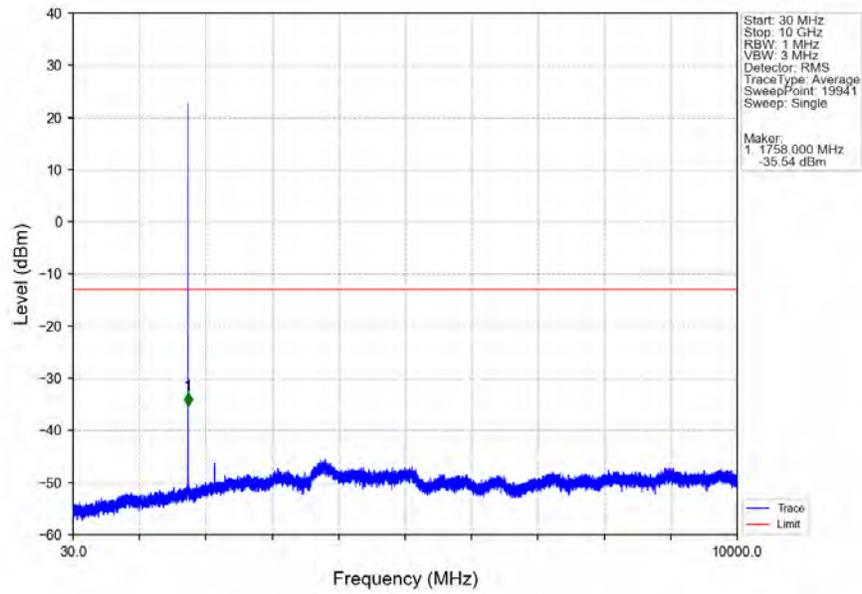
Band4\_1.4MHz\_QPSK\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



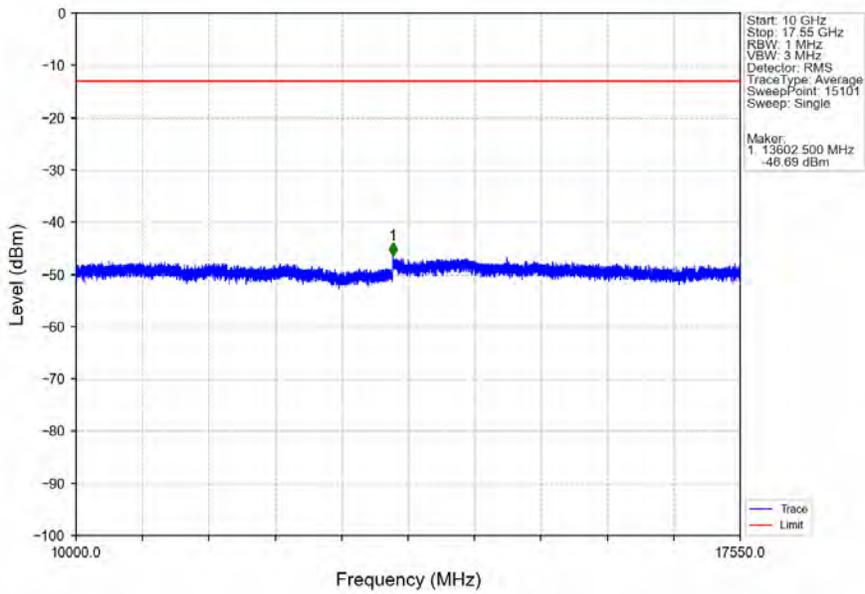
Band4\_1.4MHz\_QPSK\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



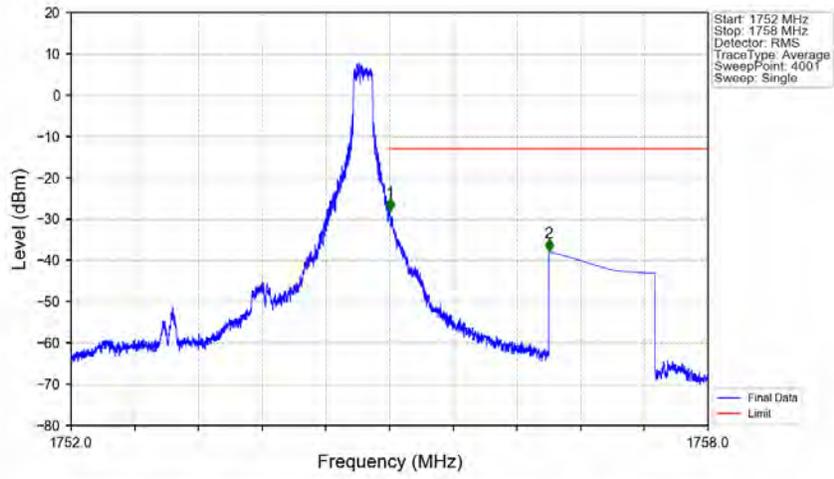
Band4\_1.4MHz\_QPSK\_HCH\_1754.3MHz\_RB\_1\_0\_NTV



Band4\_1.4MHz\_QPSK\_HCH\_1754.3MHz\_RB\_1\_0\_NTV

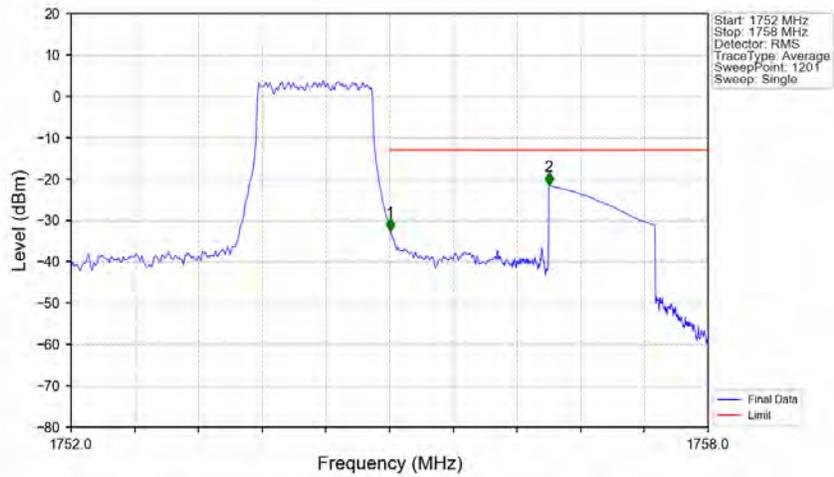


Band4\_1.4MHz\_QPSK\_HCH\_1754.3MHz\_RB\_1\_5\_NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.005	-27.98	-13	Pass
1756	1758	1	CHP	2	1756.500	-37.87	-13	Pass

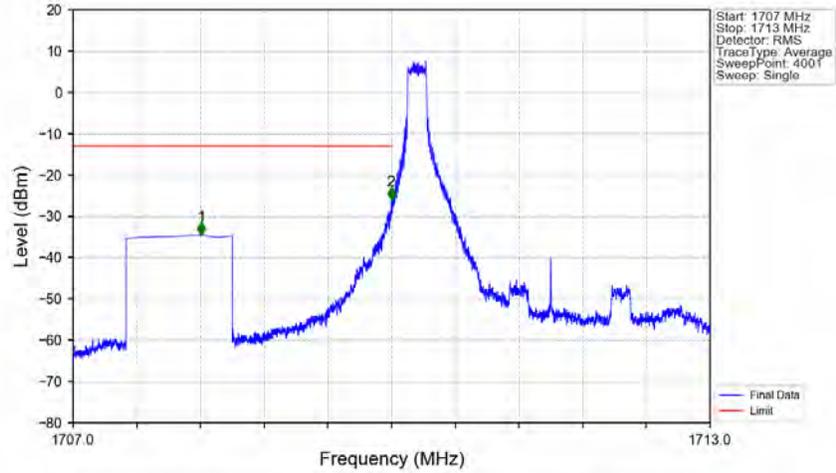
Band4\_1.4MHz\_QPSK\_HCH\_1754.3MHz\_RB\_6\_0\_NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.013	CHP	/	/	/	/	/
1755	1756	0.013	CHP	1	1755.005	-32.61	-13	Pass
1756	1758	1	CHP	2	1756.500	-21.55	-13	Pass

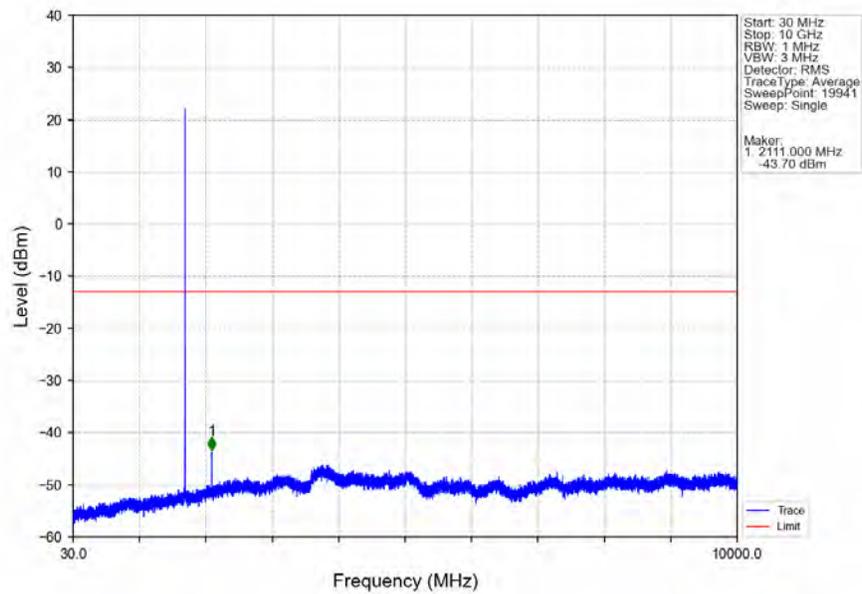
### 5.2.2 B4\_3MHz

Band4\_3MHz\_QPSK\_LCH\_1711.5MHz\_RB\_1\_0\_NTNV

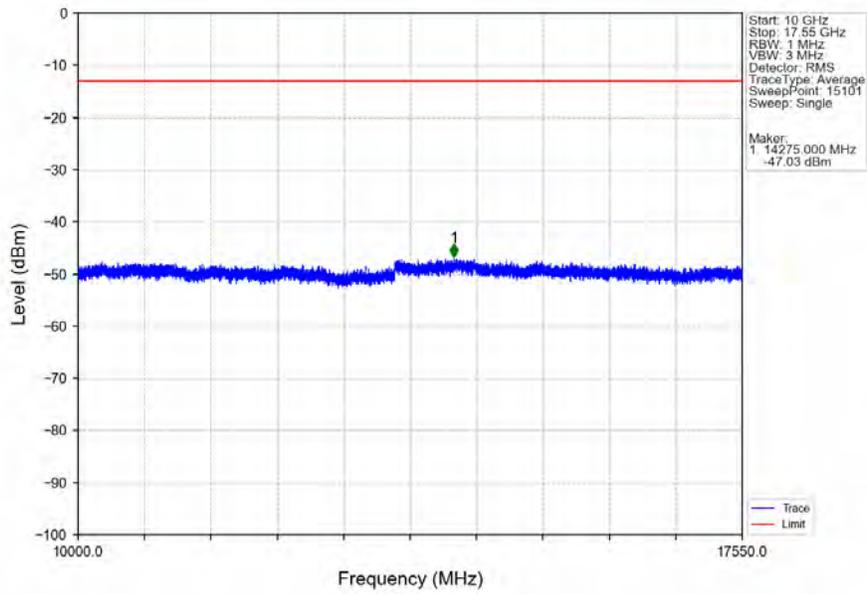


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1708.209	-34.62	-13	Pass
1709	1710	0.003	/	2	1709.997	-26.09	-13	Pass
1710	1713	0.003	/	/	/	/	/	/

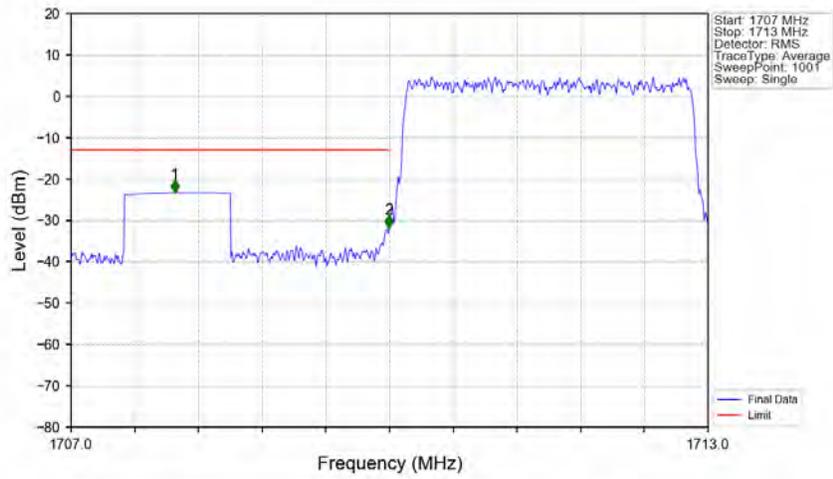
Band4\_3MHz\_QPSK\_LCH\_1711.5MHz\_RB\_1\_0\_NTNV



Band4\_3MHz\_QPSK\_LCH\_1711.5MHz\_RB\_1\_0\_NTNV

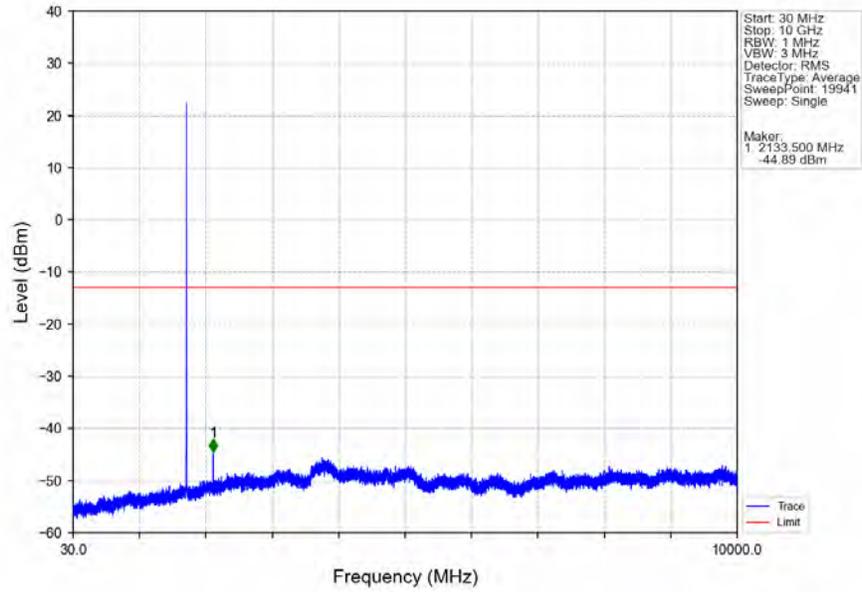


Band4\_3MHz\_QPSK\_LCH\_1711.5MHz\_RB\_15\_0\_NTNV

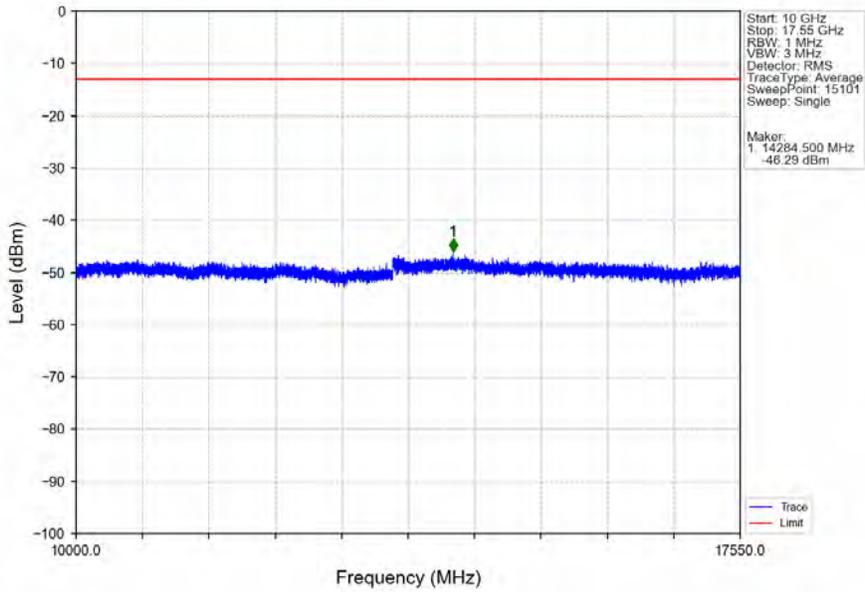


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1707	1709	1	CHP	1	1707.978	-23.27	-13	Pass
1709	1710	0.03	/	2	1709.994	-31.80	-13	Pass
1710	1713	0.03	/	/	/	/	/	/

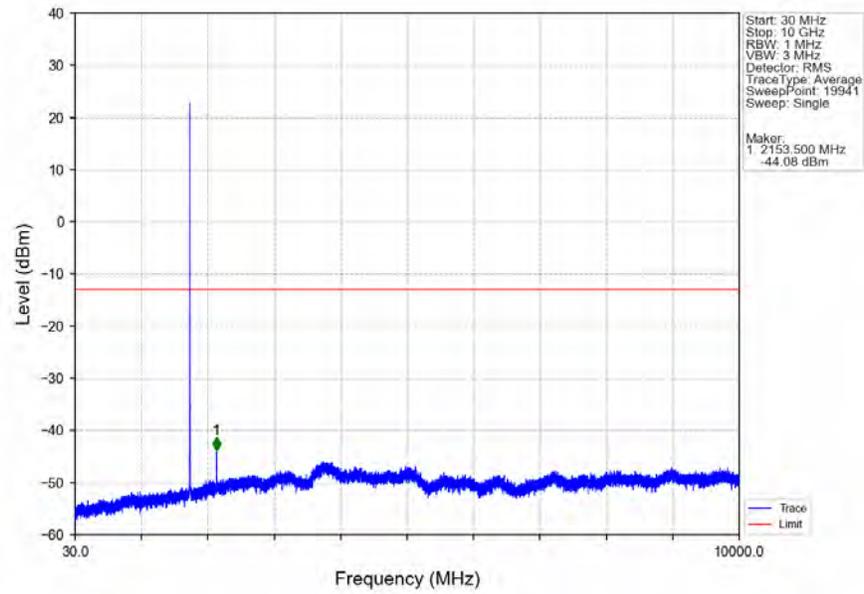
Band4\_3MHz\_QPSK\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



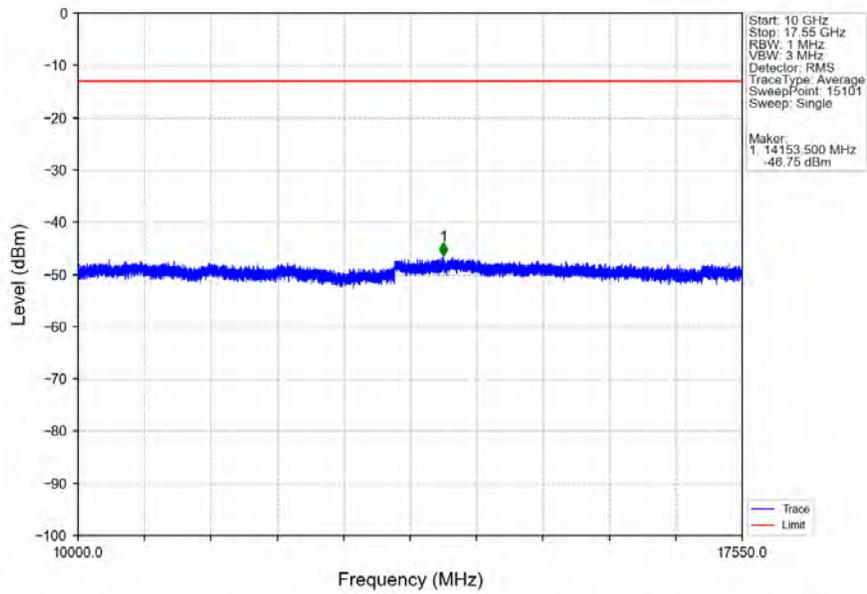
Band4\_3MHz\_QPSK\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



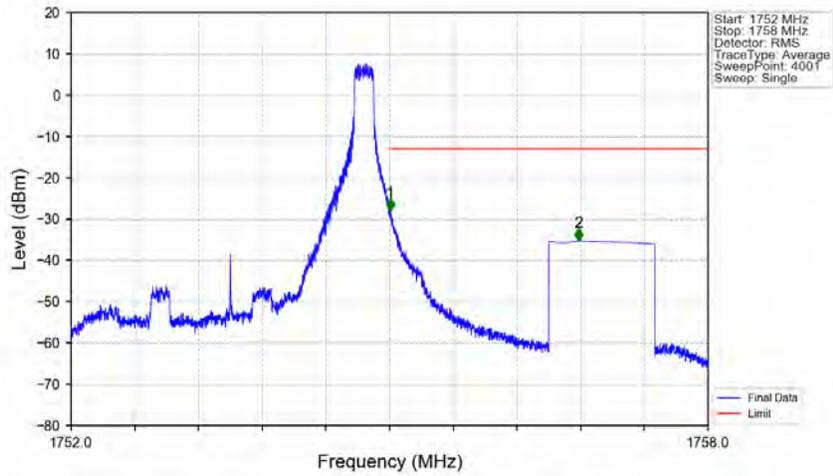
Band4\_3MHz\_QPSK\_HCH\_1753.5MHz\_RB\_1\_0\_NTNV



Band4\_3MHz\_QPSK\_HCH\_1753.5MHz\_RB\_1\_0\_NTNV

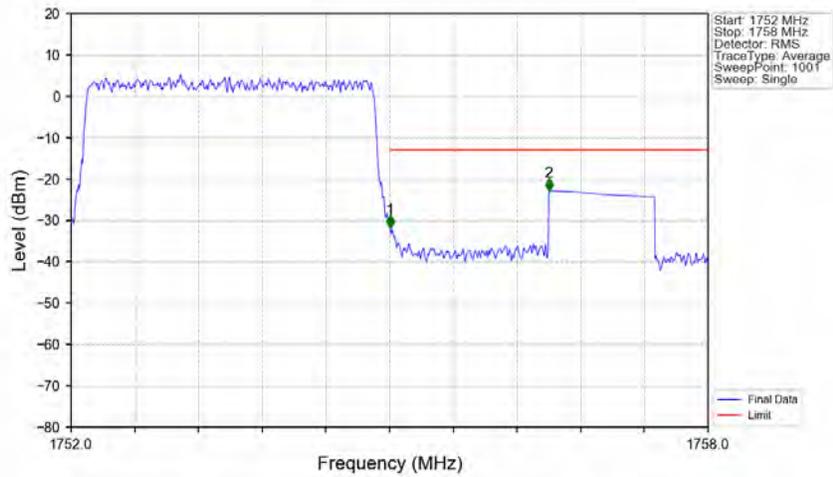


Band4\_3MHz\_QPSK\_HCH\_1753.5MHz\_RB\_1\_14\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.007	-27.97	-13	Pass
1756	1758	1	CHP	2	1756.782	-35.32	-13	Pass

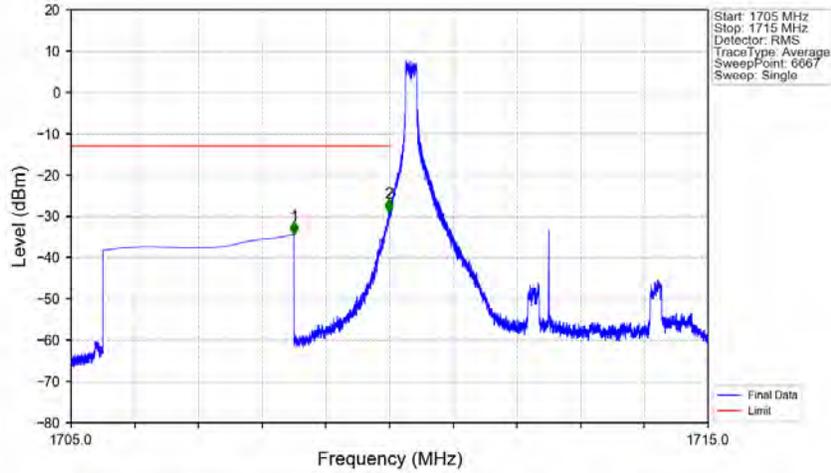
Band4\_3MHz\_QPSK\_HCH\_1753.5MHz\_RB\_15\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1752	1755	0.03	/	/	/	/	/	/
1755	1756	0.03	/	1	1755.006	-31.81	-13	Pass
1756	1758	1	CHP	2	1756.500	-22.91	-13	Pass

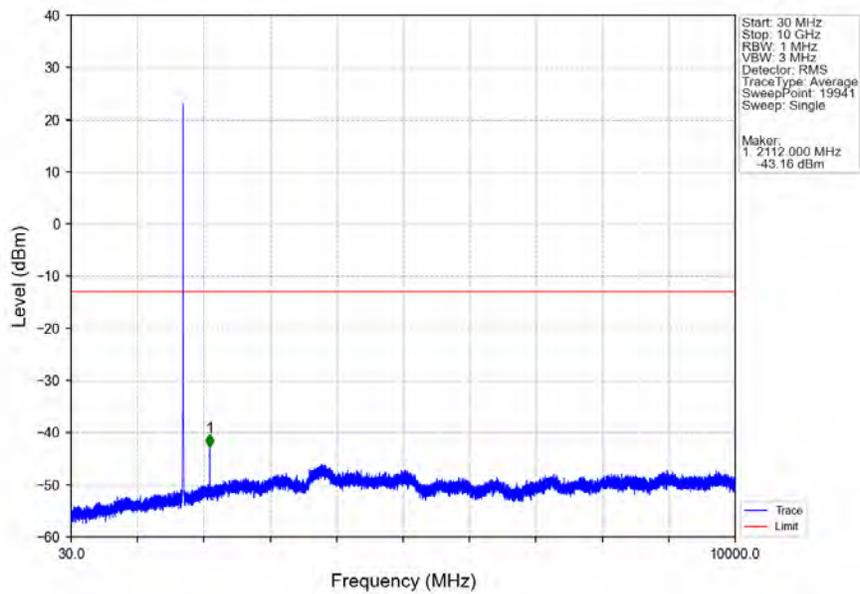
### 5.2.3 B4\_5MHz

Band4\_5MHz\_QPSK\_LCH\_1712.5MHz\_RB\_1\_0\_NTNV

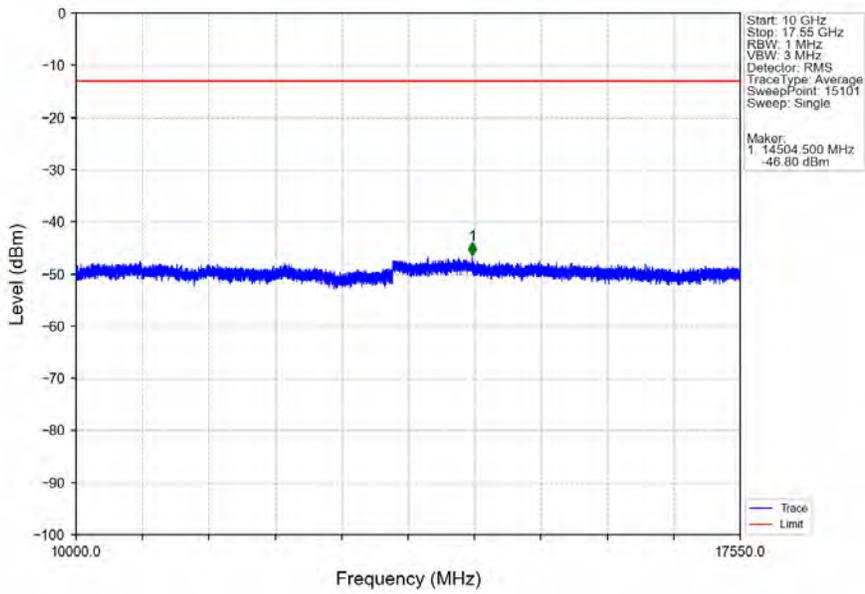


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1705	1709	1	CHP	1	1708.500	-34.41	-13	Pass
1709	1710	0.003	/	2	1709.988	-28.90	-13	Pass
1710	1715	0.003	/	/	/	/	/	/

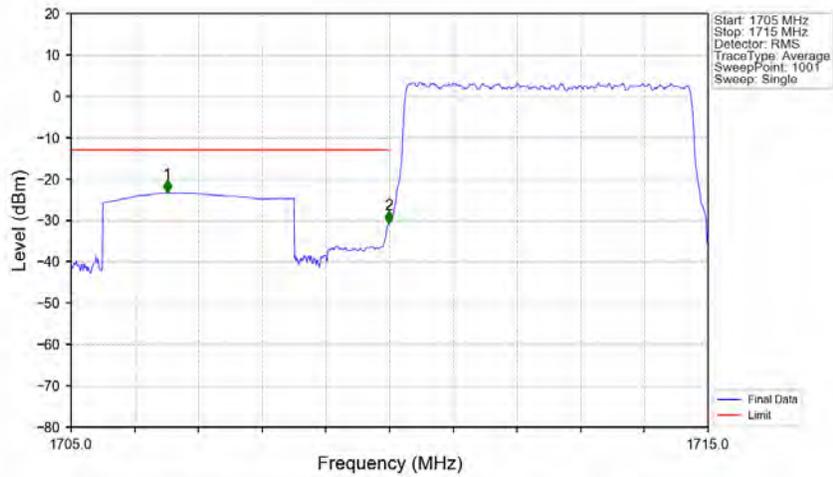
Band4\_5MHz\_QPSK\_LCH\_1712.5MHz\_RB\_1\_0\_NTNV



Band4\_5MHz\_QPSK\_LCH\_1712.5MHz\_RB\_1\_0\_NTNV

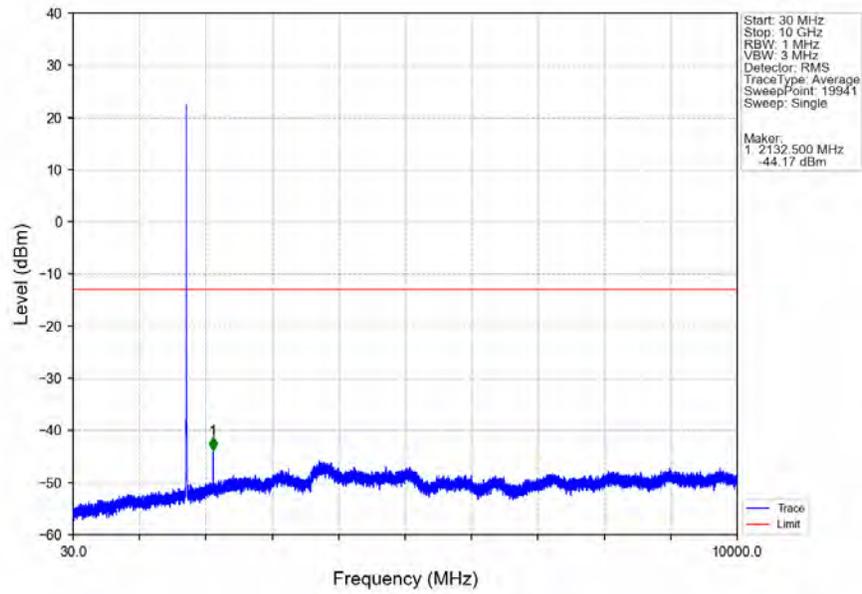


Band4\_5MHz\_QPSK\_LCH\_1712.5MHz\_RB\_25\_0\_NTNV

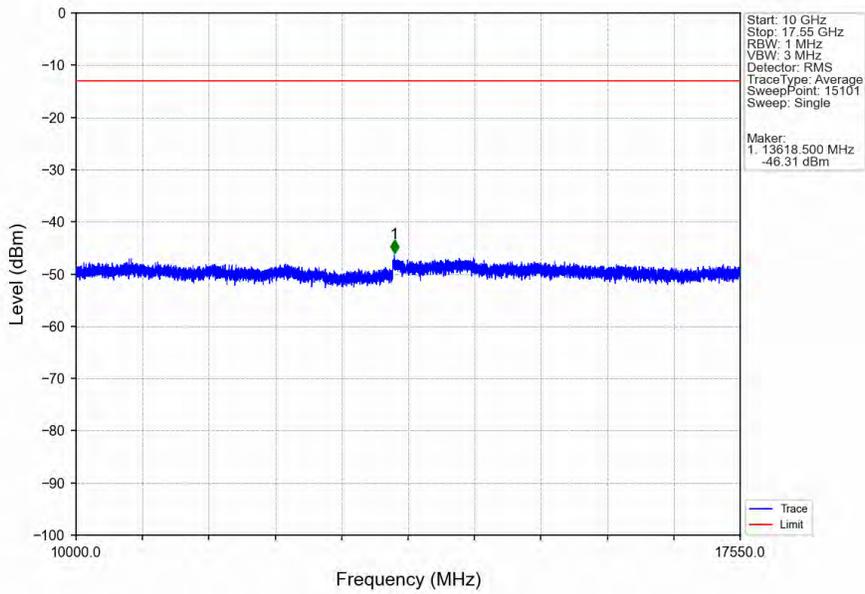


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1705	1709	1	CHP	1	1706.510	-23.36	-13	Pass
1709	1710	0.051	CHP	2	1709.990	-30.78	-13	Pass
1710	1715	0.051	CHP	/	/	/	/	/

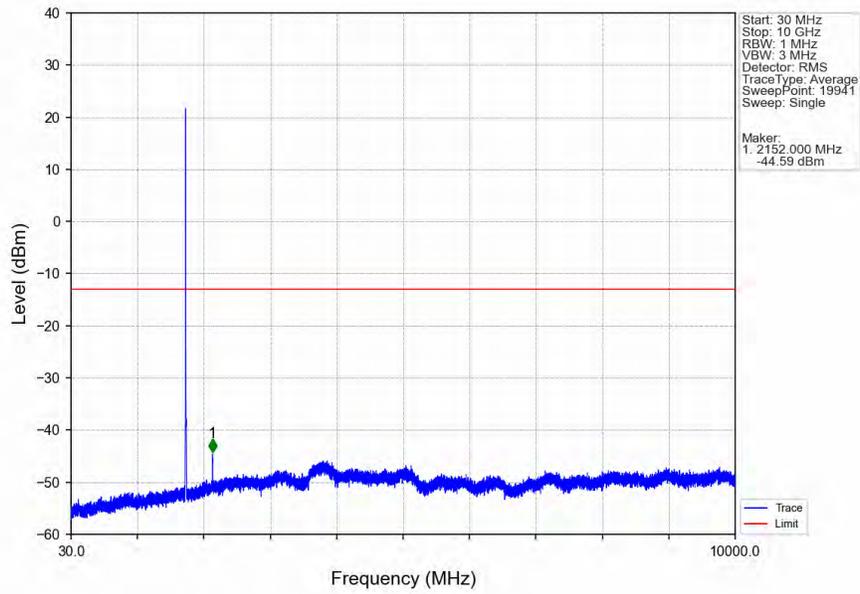
Band4\_5MHz\_QPSK\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



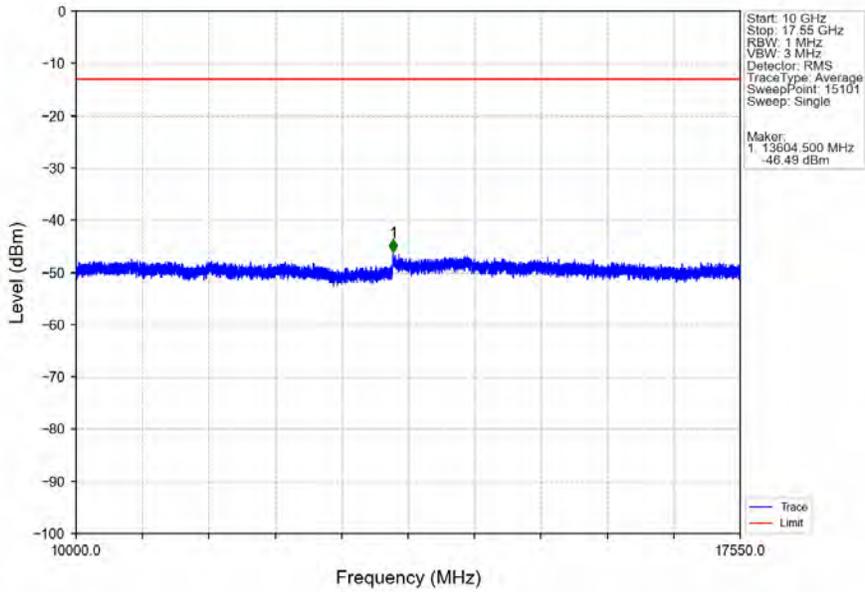
Band4\_5MHz\_QPSK\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



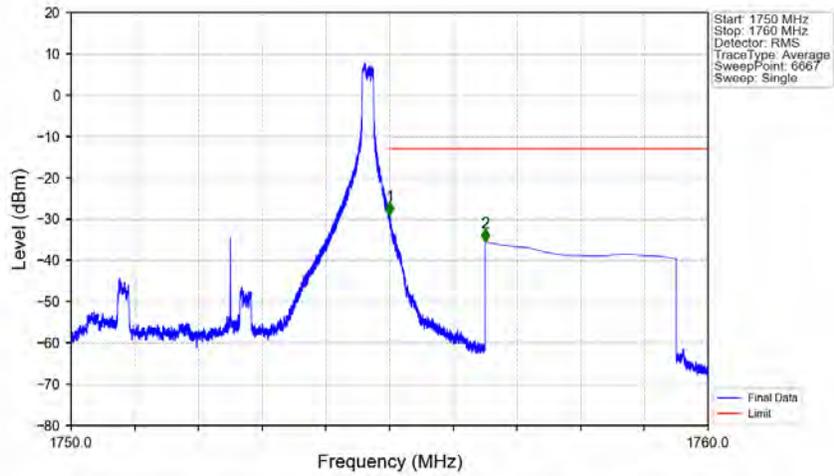
Band4\_5MHz\_QPSK\_HCH\_1752.5MHz\_RB\_1\_0\_NTNV



Band4\_5MHz\_QPSK\_HCH\_1752.5MHz\_RB\_1\_0\_NTNV

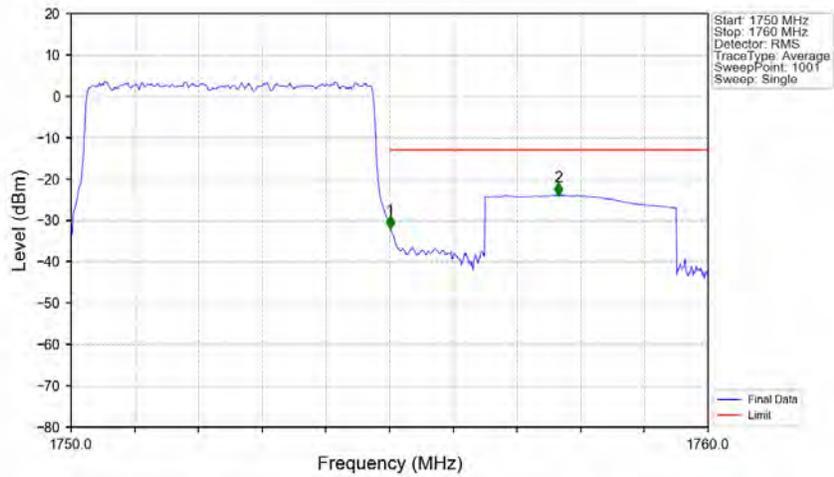


Band4\_5MHz\_QPSK\_HCH\_1752.5MHz\_RB\_1\_24\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1750	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.002	-29.00	-13	Pass
1756	1760	1	CHP	2	1756.500	-35.45	-13	Pass

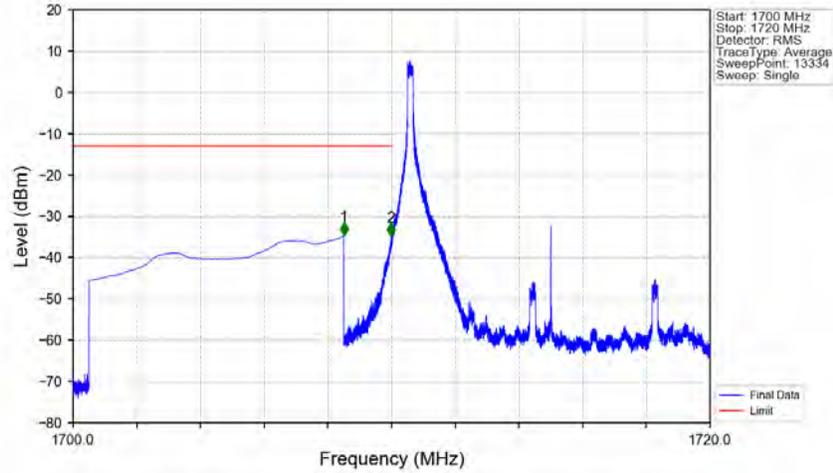
Band4\_5MHz\_QPSK\_HCH\_1752.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1750	1755	0.051	CHP	/	/	/	/	/
1755	1756	0.051	CHP	1	1755.010	-32.08	-13	Pass
1756	1760	1	CHP	2	1757.650	-23.98	-13	Pass

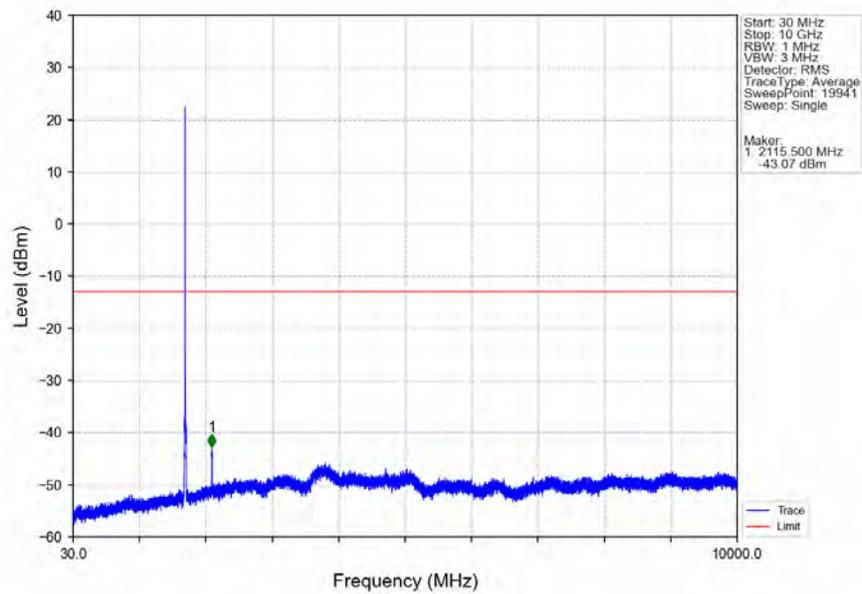
### 5.2.4 B4\_10MHz

Band4\_10MHz\_QPSK\_LCH\_1715MHz\_RB\_1\_0\_NTNV

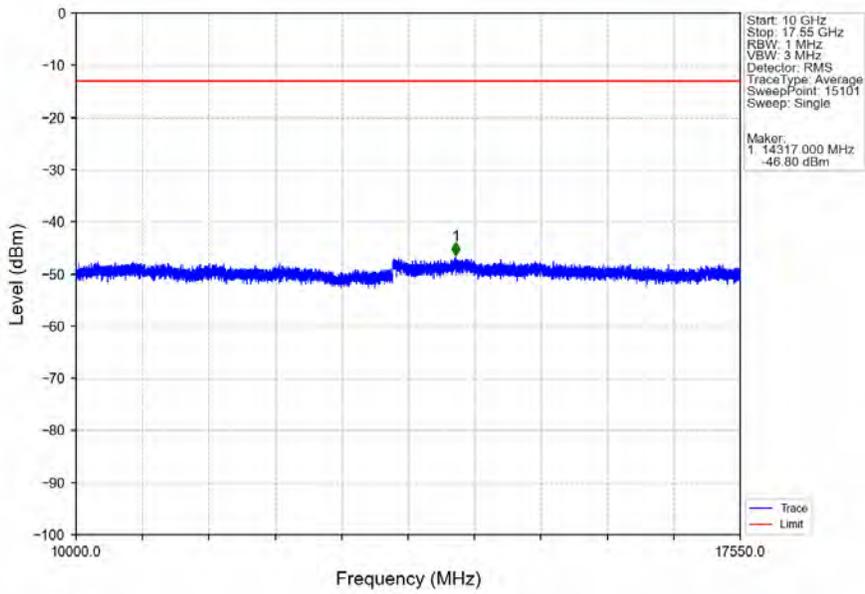


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1700	1709	1	CHP	1	1708.499	-34.67	-13	Pass
1709	1710	0.003	/	2	1709.986	-34.73	-13	Pass
1710	1720	0.003	/	/	/	/	/	/

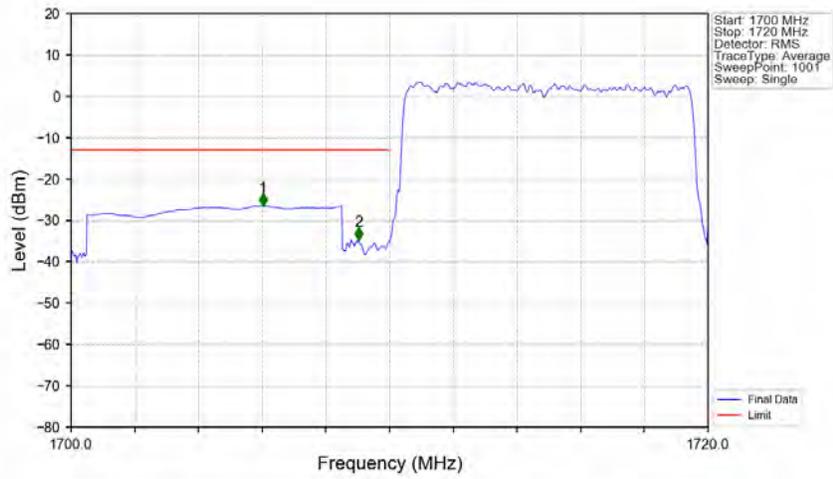
Band4\_10MHz\_QPSK\_LCH\_1715MHz\_RB\_1\_0\_NTNV



Band4\_10MHz\_QPSK\_LCH\_1715MHz\_RB\_1\_0\_NTNV

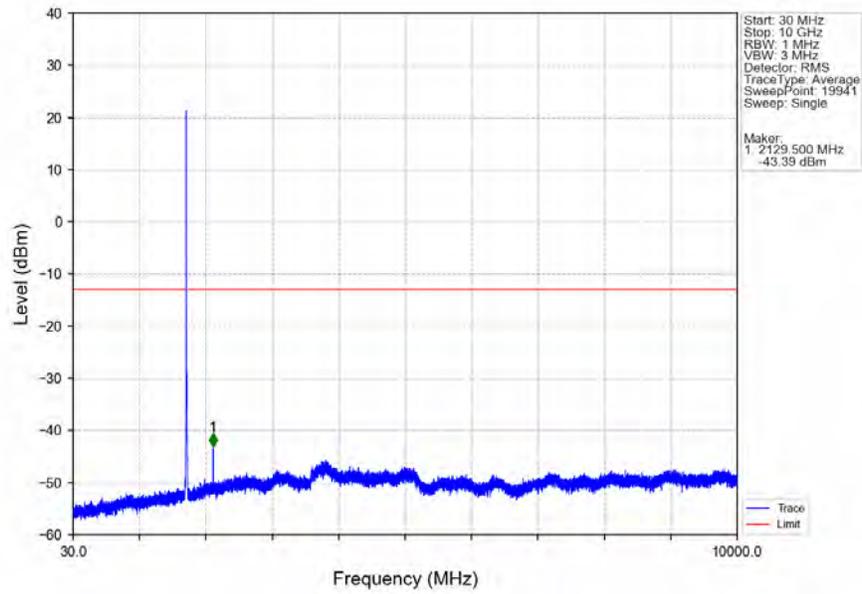


Band4\_10MHz\_QPSK\_LCH\_1715MHz\_RB\_50\_0\_NTNV

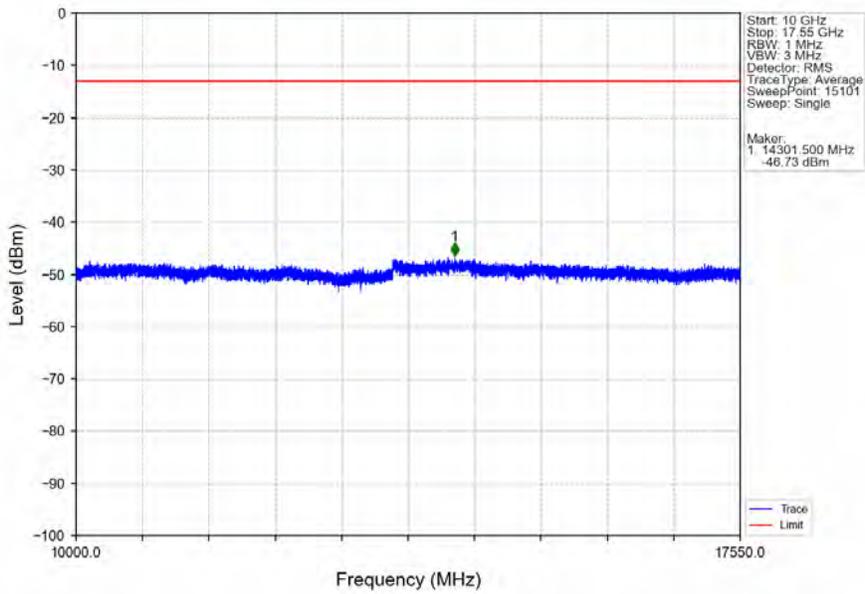


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1700	1709	1	CHP	1	1706.020	-26.55	-13	Pass
1709	1710	0.101	CHP	2	1709.040	-34.83	-13	Pass
1710	1720	0.101	CHP	/	/	/	/	/

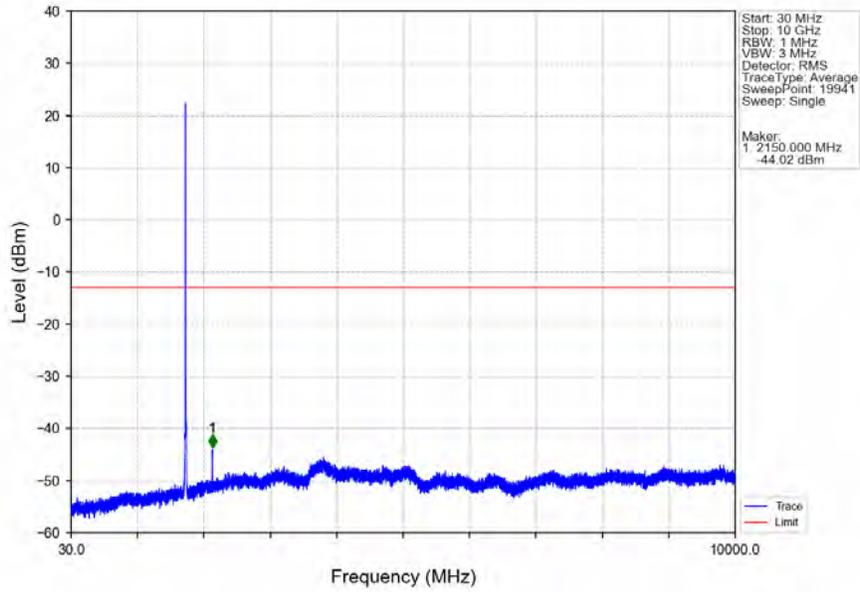
Band4\_10MHz\_QPSK\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



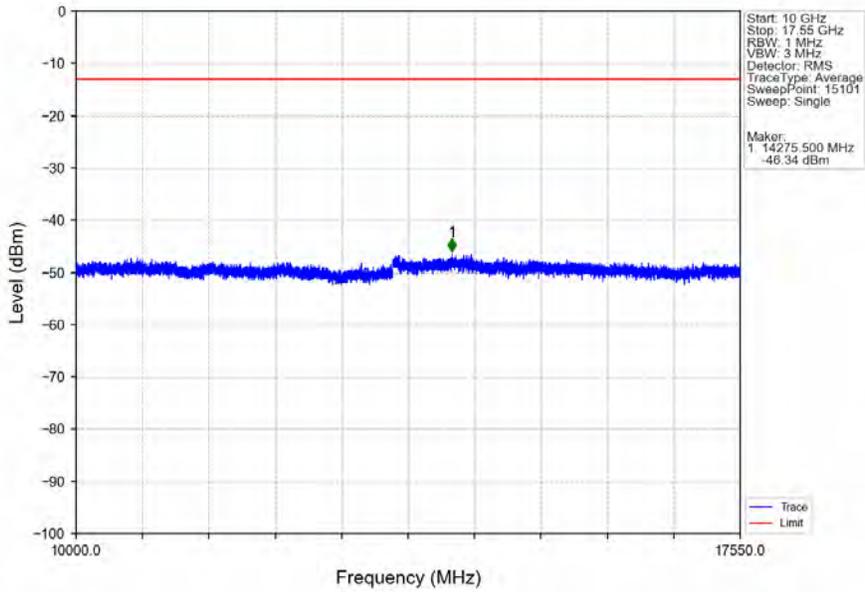
Band4\_10MHz\_QPSK\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



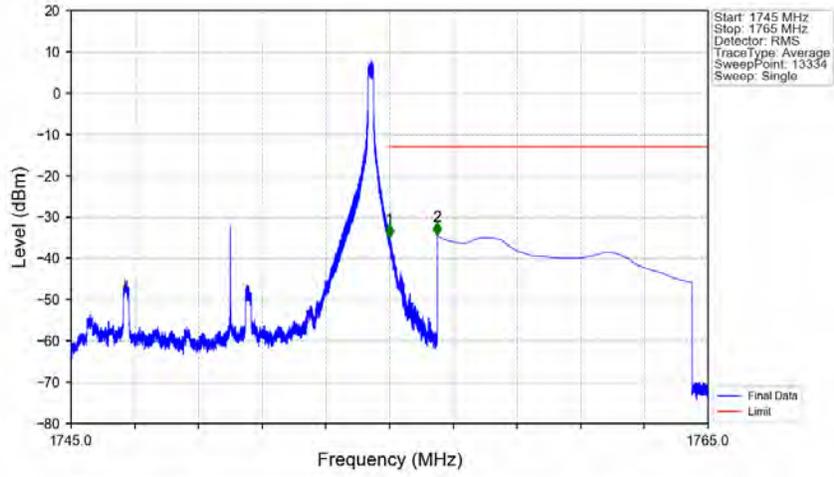
Band4\_10MHz\_QPSK\_HCH\_1750MHz\_RB\_1\_0\_NTNV



Band4\_10MHz\_QPSK\_HCH\_1750MHz\_RB\_1\_0\_NTNV

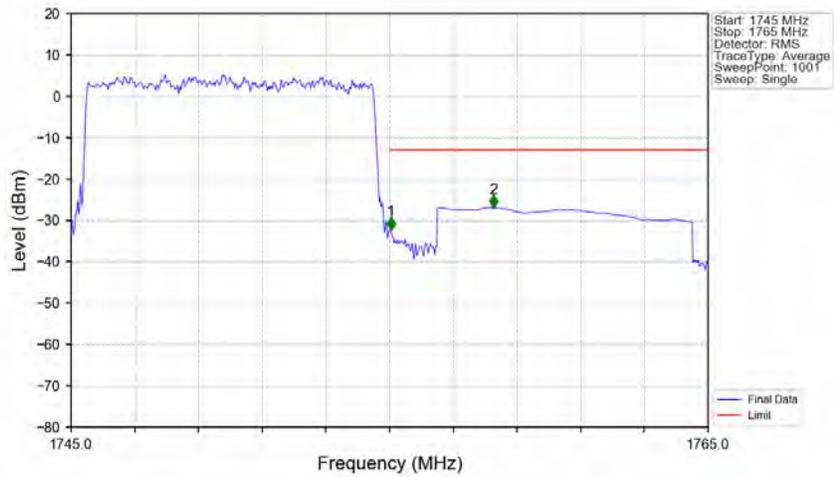


Band4\_10MHz\_QPSK\_HCH\_1750MHz\_RB\_1\_49\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1745	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.001	-34.97	-13	Pass
1756	1765	1	CHP	2	1756.501	-34.47	-13	Pass

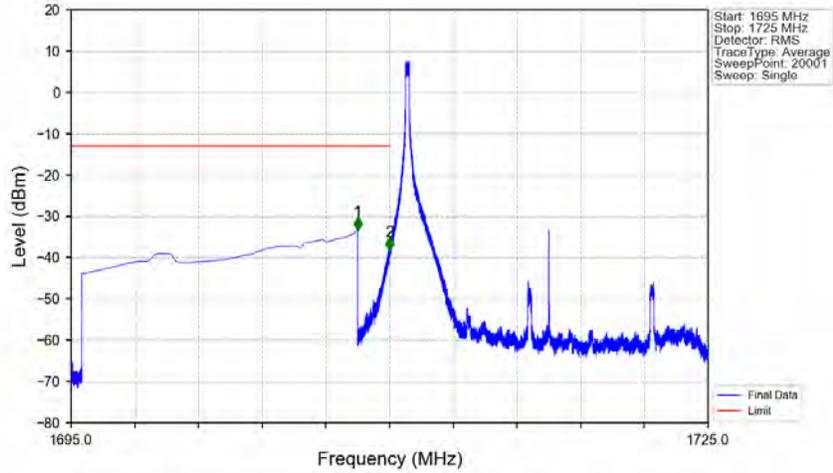
Band4\_10MHz\_QPSK\_HCH\_1750MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1745	1755	0.1	/	/	/	/	/	/
1755	1756	0.1	/	1	1755.040	-32.32	-13	Pass
1756	1765	1	CHP	2	1758.260	-26.90	-13	Pass

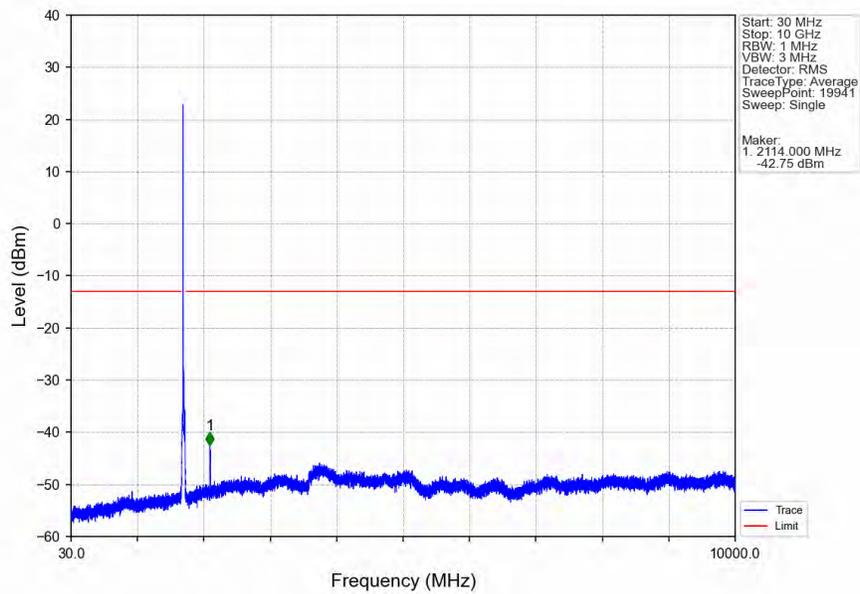
### 5.2.5 B4\_15MHz

Band4\_15MHz\_QPSK\_LCH\_1717.5MHz\_RB\_1\_0\_NTNV

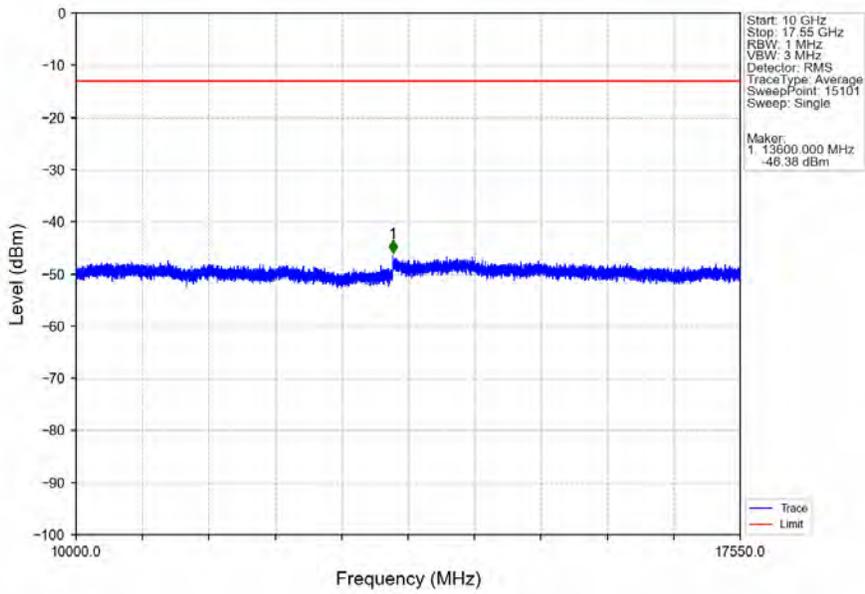


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1695	1709	1	CHP	1	1708.500	-33.36	-13	Pass
1709	1710	0.003	/	2	1709.995	-38.18	-13	Pass
1710	1725	0.003	/	/	/	/	/	/

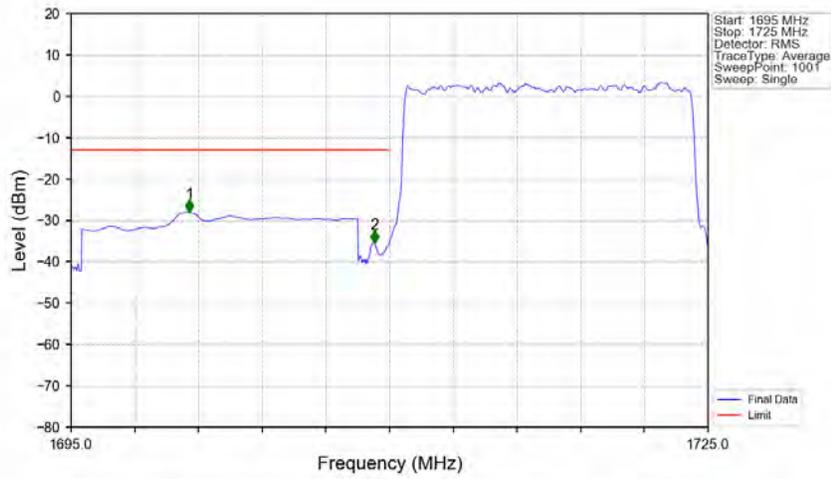
Band4\_15MHz\_QPSK\_LCH\_1717.5MHz\_RB\_1\_0\_NTNV



Band4\_15MHz\_QPSK\_LCH\_1717.5MHz\_RB\_1\_0\_NTNV

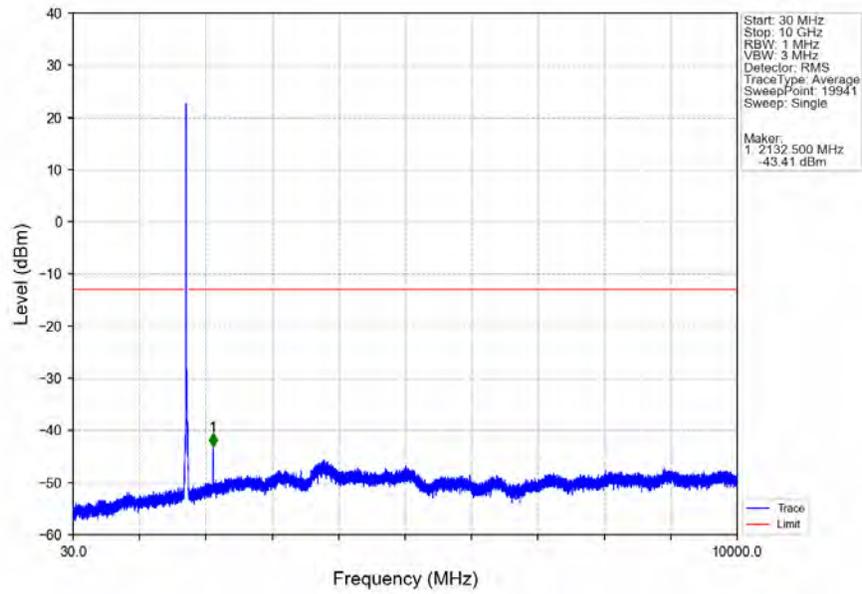


Band4\_15MHz\_QPSK\_LCH\_1717.5MHz\_RB\_75\_0\_NTNV

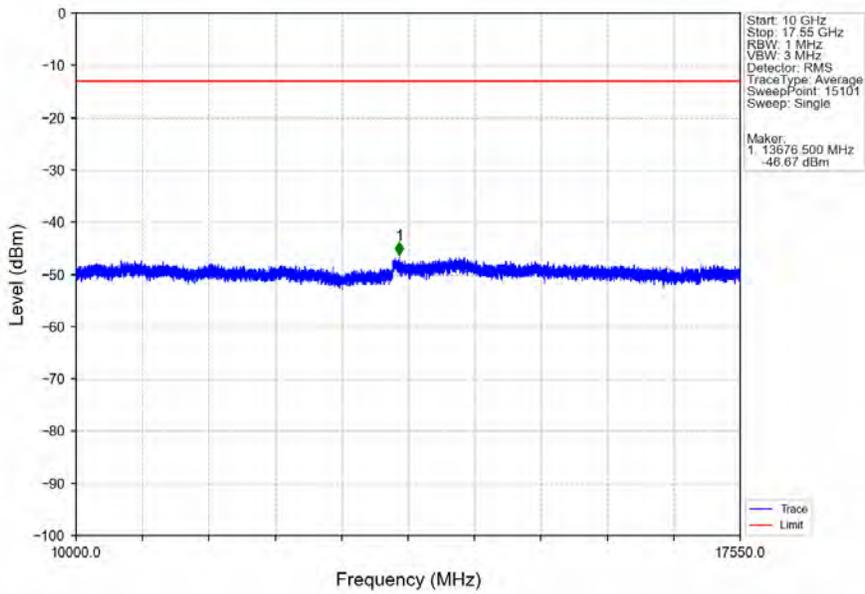


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1695	1709	1	CHP	1	1700.580	-28.05	-13	Pass
1709	1710	0.15	CHP	2	1709.280	-35.45	-13	Pass
1710	1725	0.15	CHP	/	/	/	/	/

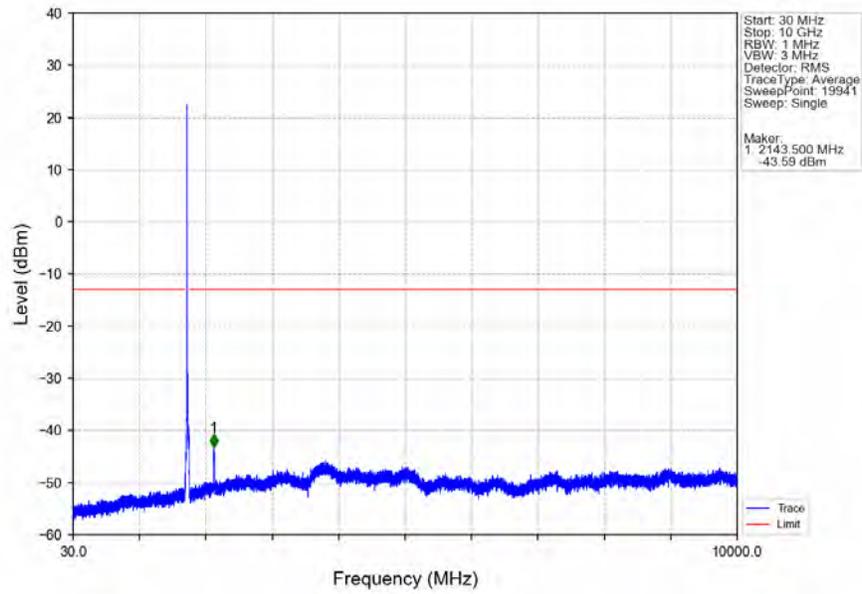
Band4\_15MHz\_QPSK\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



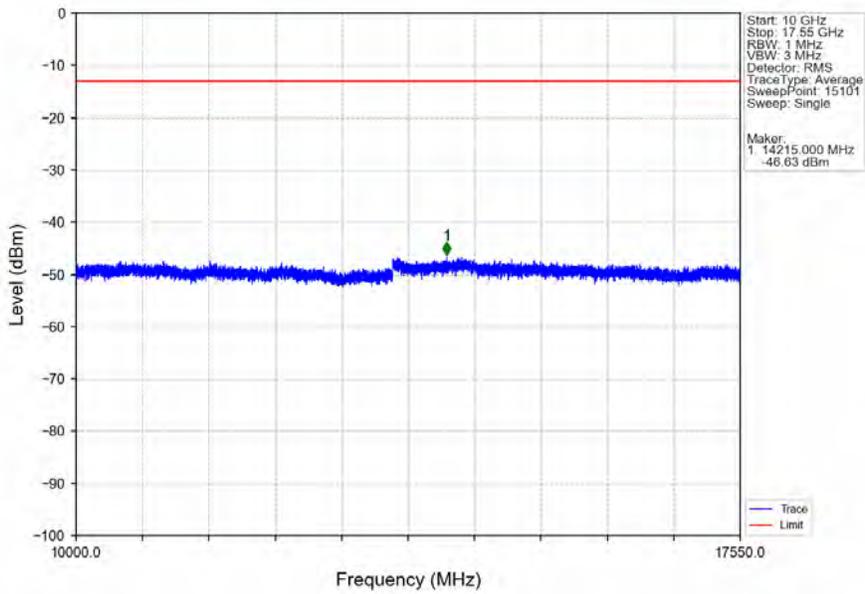
Band4\_15MHz\_QPSK\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



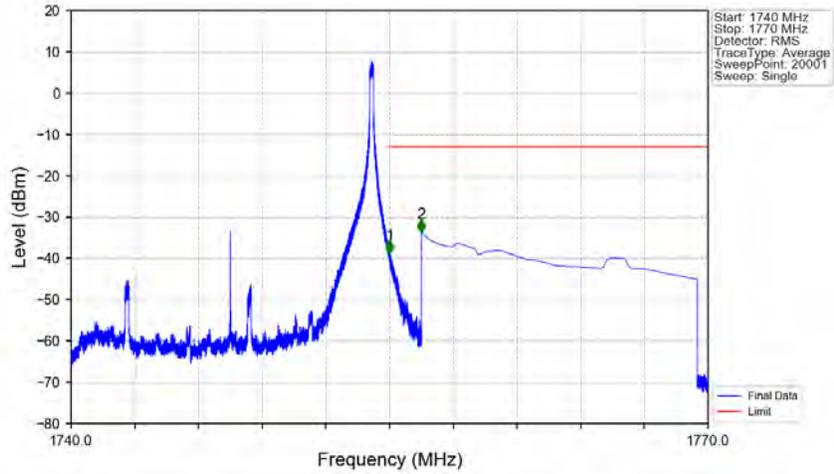
Band4\_15MHz\_QPSK\_HCH\_1747.5MHz\_RB\_1\_0\_NTNV



Band4\_15MHz\_QPSK\_HCH\_1747.5MHz\_RB\_1\_0\_NTNV

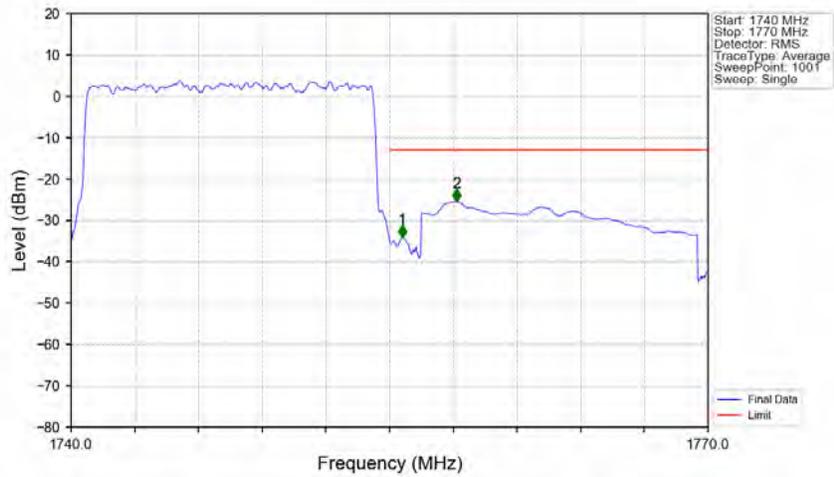


Band4\_15MHz\_QPSK\_HCH\_1747.5MHz\_RB\_1\_74\_NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1740	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.005	-38.73	-13	Pass
1756	1770	1	CHP	2	1756.500	-33.75	-13	Pass

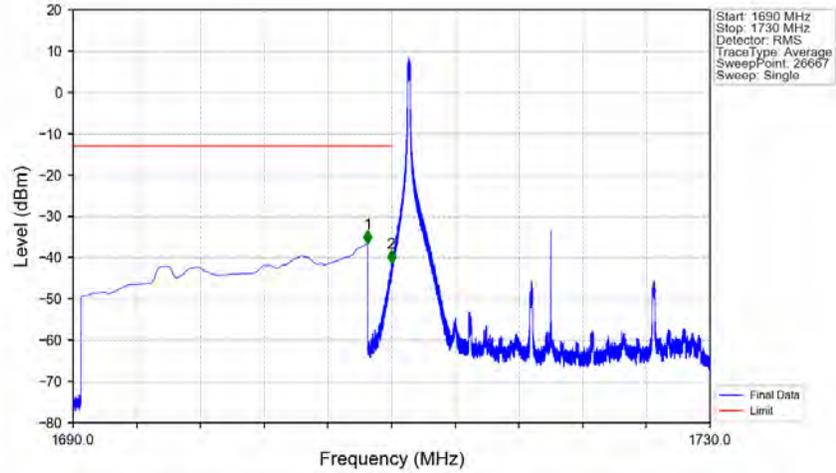
Band4\_15MHz\_QPSK\_HCH\_1747.5MHz\_RB\_75\_0\_NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1740	1755	0.15	CHP	/	/	/	/	/
1755	1756	0.15	CHP	1	1755.600	-34.22	-13	Pass
1756	1770	1	CHP	2	1758.150	-25.46	-13	Pass

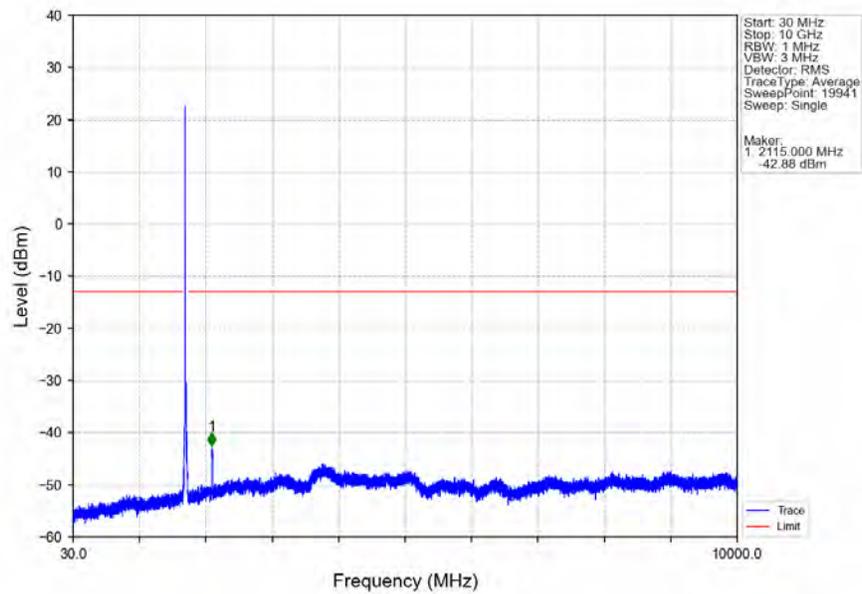
### 5.2.6 B4\_20MHz

Band4\_20MHz\_QPSK\_LCH\_1720MHz\_RB\_1\_0\_NTNV

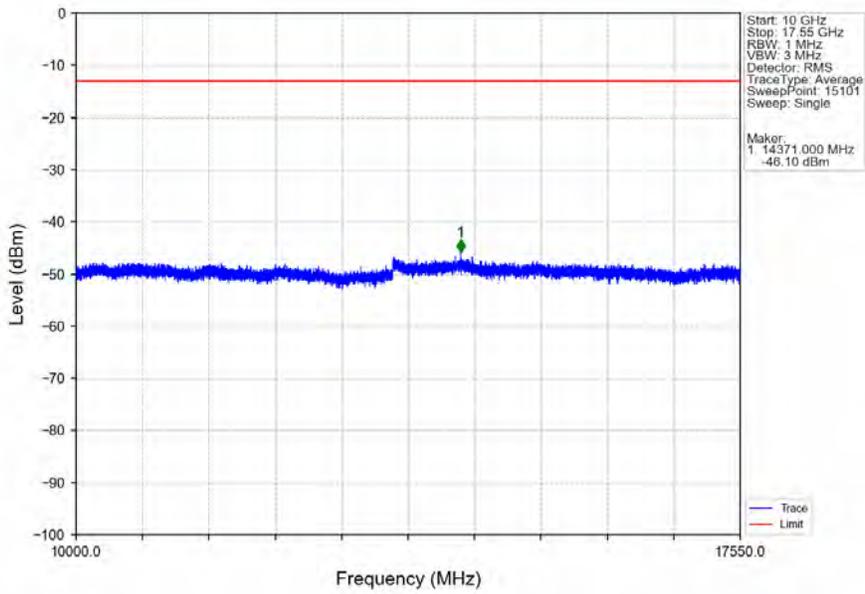


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1690	1709	1	CHP	1	1708.500	-36.50	-13	Pass
1709	1710	0.003	/	2	1709.984	-41.24	-13	Pass
1710	1730	0.003	/	/	/	/	/	/

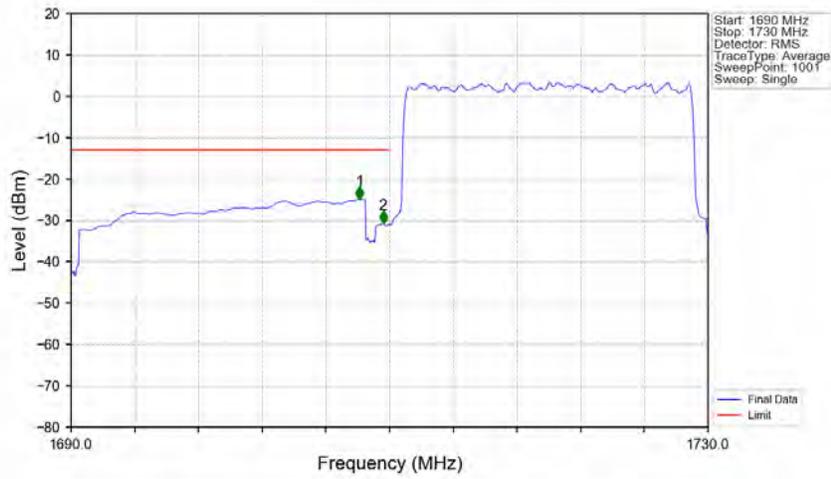
Band4\_20MHz\_QPSK\_LCH\_1720MHz\_RB\_1\_0\_NTNV



Band4\_20MHz\_QPSK\_LCH\_1720MHz\_RB\_1\_0\_NTNV

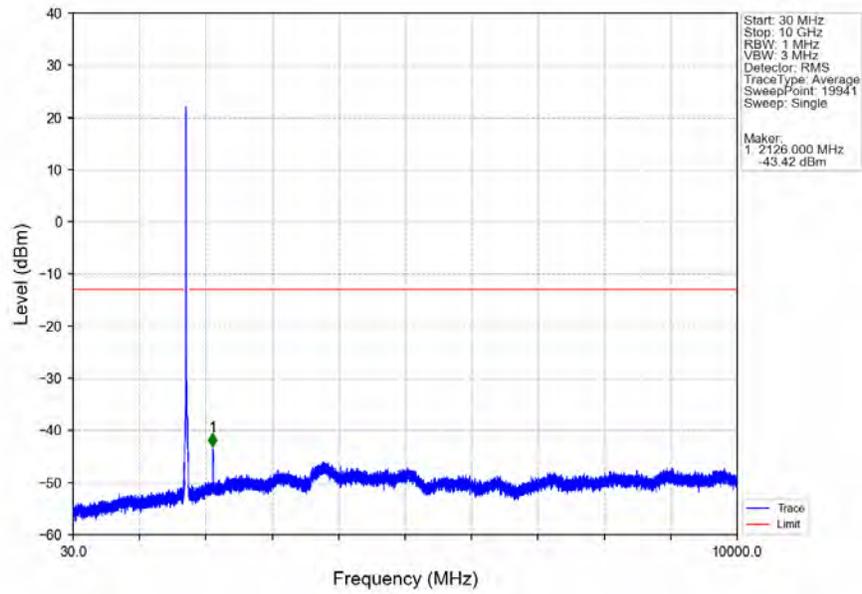


Band4\_20MHz\_QPSK\_LCH\_1720MHz\_RB\_100\_0\_NTNV

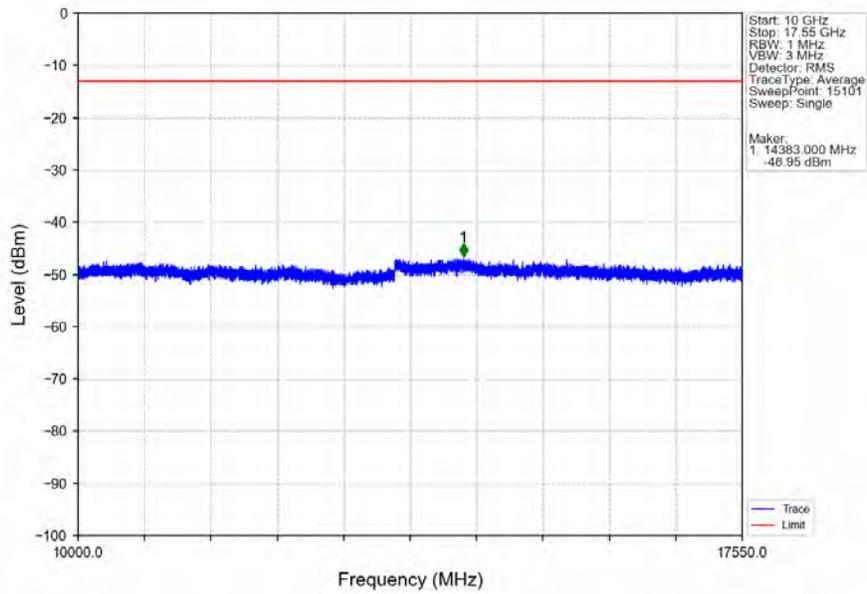


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1690	1709	1	CHP	1	1708.120	-24.88	-13	Pass
1709	1710	0.198	CHP	2	1709.600	-30.70	-13	Pass
1710	1730	0.198	CHP	/	/	/	/	/

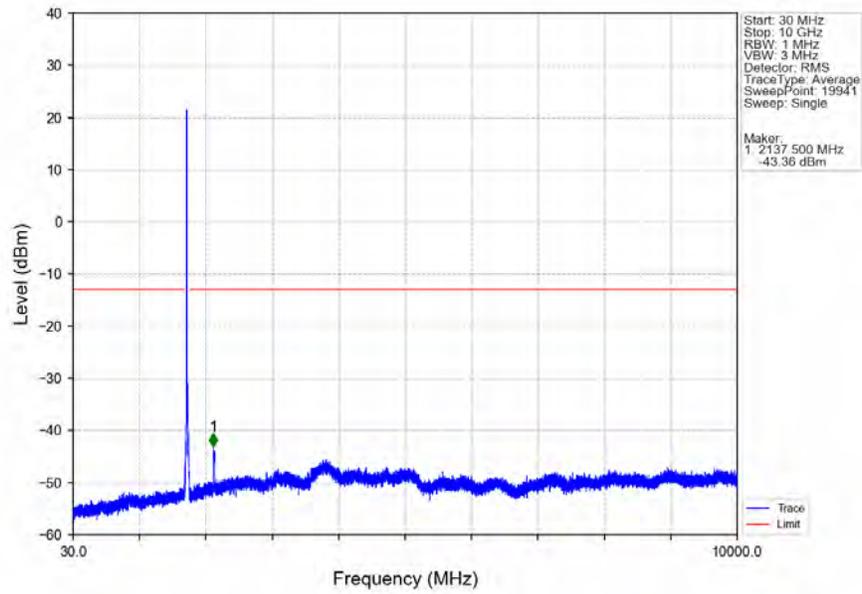
Band4\_20MHz\_QPSK\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



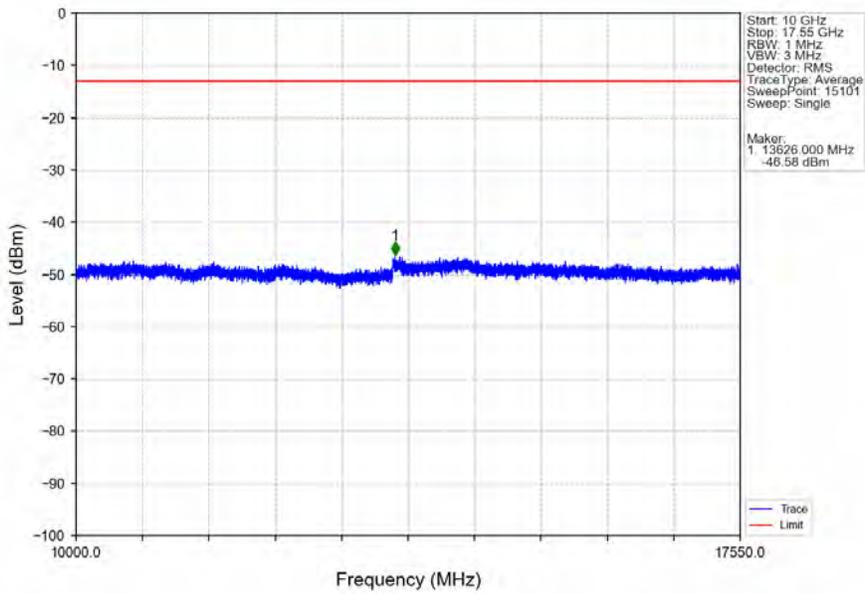
Band4\_20MHz\_QPSK\_MCH\_1732.5MHz\_RB\_1\_0\_NTNV



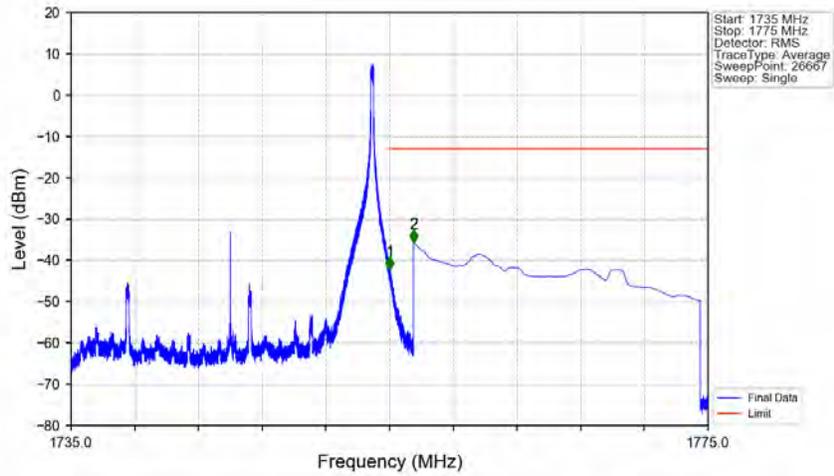
Band4\_20MHz\_QPSK\_HCH\_1745MHz\_RB\_1\_0\_NTNV



Band4\_20MHz\_QPSK\_HCH\_1745MHz\_RB\_1\_0\_NTNV

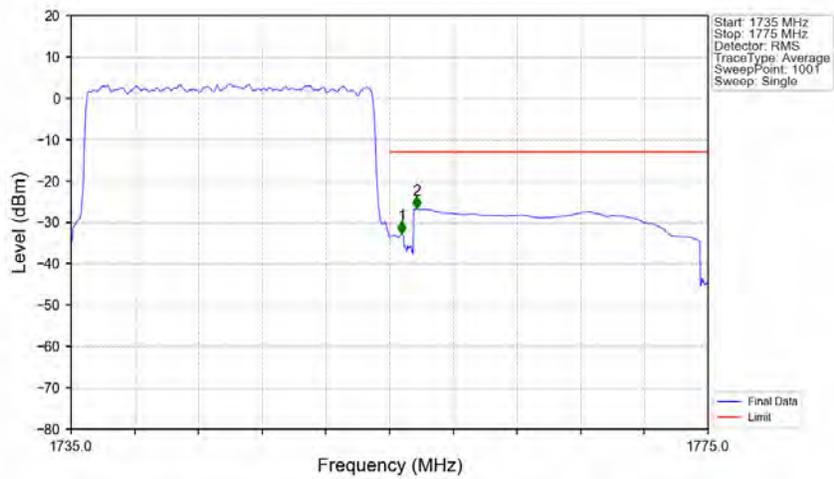


Band4\_20MHz\_QPSK\_HCH\_1745MHz\_RB\_1\_99\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1735	1755	0.003	/	/	/	/	/	/
1755	1756	0.003	/	1	1755.015	-42.18	-13	Pass
1756	1775	1	CHP	2	1756.500	-35.66	-13	Pass

Band4\_20MHz\_QPSK\_HCH\_1745MHz\_RB\_100\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1735	1755	0.198	CHP	/	/	/	/	/
1755	1756	0.198	CHP	1	1755.760	-32.79	-13	Pass
1756	1775	1	CHP	2	1756.720	-26.81	-13	Pass

## 6. Field Strength of Spurious Radiation

LTE Band 4 ANT2-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3422.0	-67.01	-13	-54.01	-71.63	3.36	7.98	Horizontal	Pass
5133.0	-63.02	-13	-50.02	-68.63	4.61	10.22	Horizontal	Pass
6844.0	-61.76	-13	-48.76	-67.79	4.9	10.93	Horizontal	Pass
3422.0	-65.76	-13	-52.76	-70.38	3.36	7.98	Vertical	Pass
5133.0	-63.31	-13	-50.31	-68.92	4.61	10.22	Vertical	Pass
6844.0	-61.56	-13	-48.56	-67.59	4.9	10.93	Vertical	Pass

LTE Band 4 ANT2-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3447.0	-67.07	-13	-54.07	-71.74	3.37	8.04	Horizontal	Pass
5170.5	-63.65	-13	-50.65	-69.28	4.62	10.25	Horizontal	Pass
6894.0	-62.02	-13	-49.02	-68.11	4.9	10.99	Horizontal	Pass
3447.0	-66.43	-13	-53.43	-71.1	3.37	8.04	Vertical	Pass
5170.5	-63.27	-13	-50.27	-68.9	4.62	10.25	Vertical	Pass
6894.0	-61.79	-13	-48.79	-67.88	4.9	10.99	Vertical	Pass

LTE Band 4 ANT2-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3472.0	-66.86	-13	-53.86	-71.57	3.39	8.1	Horizontal	Pass
5208.0	-62.99	-13	-49.99	-68.62	4.64	10.27	Horizontal	Pass
6944.0	-61.65	-13	-48.65	-67.8	4.91	11.06	Horizontal	Pass
3472.0	-65.87	-13	-52.87	-70.58	3.39	8.1	Vertical	Pass
5208.0	-63.51	-13	-50.51	-69.14	4.64	10.27	Vertical	Pass
6944.0	-61.71	-13	-48.71	-67.86	4.91	11.06	Vertical	Pass

CA_4A_7A-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3422.0	-54.17	-13	-41.17	-58.79	3.36	7.98	Horizontal	Pass
5133.0	-58.02	-13	-45.02	-63.63	4.61	10.22	Horizontal	Pass
6844.0	-57.15	-13	-44.15	-63.18	4.9	10.93	Horizontal	Pass
3422.0	-50.94	-13	-37.94	-55.56	3.36	7.98	Vertical	Pass
5133.0	-53.75	-13	-40.75	-59.36	4.61	10.22	Vertical	Pass
6844.0	-56.76	-13	-43.76	-62.79	4.9	10.93	Vertical	Pass

CA_4A_7A-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3447.0	-52.61	-13	-39.61	-57.28	3.37	8.04	Horizontal	Pass
5170.5	-60.03	-13	-47.03	-65.66	4.62	10.25	Horizontal	Pass
6894.0	-55.79	-13	-42.79	-61.88	4.9	10.99	Horizontal	Pass
3447.0	-48.98	-13	-35.98	-53.65	3.37	8.04	Vertical	Pass
5170.5	-53.77	-13	-40.77	-59.4	4.62	10.25	Vertical	Pass
6894.0	-57.77	-13	-44.77	-63.86	4.9	10.99	Vertical	Pass

CA_4A_7A-High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3472.0	-52.72	-13	-39.72	-57.43	3.39	8.1	Horizontal	Pass
5208.0	-56.58	-13	-43.58	-62.21	4.64	10.27	Horizontal	Pass
6944.0	-54.73	-13	-41.73	-60.88	4.91	11.06	Horizontal	Pass
3472.0	-47.84	-13	-34.84	-52.55	3.39	8.1	Vertical	Pass
5208.0	-53.76	-13	-40.76	-59.39	4.64	10.27	Vertical	Pass
6944.0	-54.03	-13	-41.03	-60.18	4.91	11.06	Vertical	Pass

CA_4A_5A-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3422.0	-67.01	-13	-54.01	-71.63	3.36	7.98	Horizontal	Pass
5133.0	-63.71	-13	-50.71	-69.32	4.61	10.22	Horizontal	Pass
6844.0	-61.03	-13	-48.03	-67.06	4.9	10.93	Horizontal	Pass
3299.344	-61.96	-13	-48.96	-66.33	3.3	7.67	Vertical	Pass
5133.0	-63.58	-13	-50.58	-69.19	4.61	10.22	Vertical	Pass
7411.461	-47.91	-13	-34.91	-54.6	4.94	11.63	Vertical	Pass

CA_4A_5A-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3328.077	-60.72	-13	-47.72	-65.15	3.31	7.74	Horizontal	Pass
5170.5	-63.37	-13	-50.37	-69.0	4.62	10.25	Horizontal	Pass
6894.0	-61.93	-13	-48.93	-68.02	4.9	10.99	Horizontal	Pass
3328.077	-60.84	-13	-47.84	-65.27	3.31	7.74	Vertical	Pass
5170.5	-63.55	-13	-50.55	-69.18	4.62	10.25	Vertical	Pass
7497.646	-51.04	-13	-38.04	-57.84	4.94	11.74	Vertical	Pass

CA_4A_5A-High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3357.061	-59.43	-13	-46.43	-63.91	3.33	7.81	Horizontal	Pass
5208.0	-63.51	-13	-50.51	-69.14	4.64	10.27	Horizontal	Pass
7562.942	-51.74	-13	-38.74	-58.6	4.95	11.81	Horizontal	Pass
3357.061	-59.39	-13	-46.39	-63.87	3.33	7.81	Vertical	Pass
5208.0	-63.47	-13	-50.47	-69.1	4.64	10.27	Vertical	Pass
7562.942	-45.06	-13	-32.06	-51.92	4.95	11.81	Vertical	Pass