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## Appendix B.9 for KSEM2108001480CR-LTE-Band 7

- 1. Effective (Isotropic) Radiated Power Output Data
- 1.1 B7\_5MHz\_EIRP

### 1.1.1 Test Result

			Band: 7	/ / Bandwidth: 5MHz / I	NTNV				
Modulation	Frequency	RB All	ocation	Power	Gain	EIRP	(dBm)	Verdict	
Modulation	(MHz)	Size	Offset	(dBm)	(dbi)	Result	Limit	Verdict	
			0	22.88	-1.40	21.48	<=33.01	Pass	
		1	13	22.86	-1.40	21.46	<=33.01	Pass	
			24	22.78	-1.40	21.38	<=33.01	Pass	
	2502.5		0	21.85	-1.40	20.45	<=33.01	Pass	
		12	6	21.86	-1.40	20.46	<=33.01	Pass	
			13	21.78	-1.40	20.38	<=33.01	Pass	
		25	0	21.89	-1.40	20.49	<=33.01	Pass	
			0	22.89	-1.40	21.49	<=33.01	Pass	
		1	13	22.69	-1.40	21.29	<=33.01	Pass	
			24	22.63	-1.40	21.23	<=33.01	Pass	
QPSK	2535		0	21.63	-1.40	20.23	<=33.01	Pass	
			12	6	21.60	-1.40	20.20	<=33.01	Pass
			13	21.63	-1.40	20.23	<=33.01	Pass	
		25	0	21.64	-1.40	20.24	<=33.01	Pass	
			0	22.73	-1.40	21.33	<=33.01	Pass	
		1	13	22.69	-1.40	21.29	<=33.01	Pass	
			24	22.61	-1.40	21.21	<=33.01	Pass	
	2567.5		0	21.67	-1.40	20.27	<=33.01	Pass	
		12	6	21.69	-1.40	20.29	<=33.01	Pass	
			13	21.70	-1.40	20.30	<=33.01	Pass	
		25	0	21.69	-1.40	20.29	<=33.01	Pass	
			0	22.23	-1.40	20.83	<=33.01	Pass	
		1	13	22.18	-1.40	20.78	<=33.01	Pass	
			24	22.05	-1.40	20.65	<=33.01	Pass	
	2502.5		0	20.94	-1.40	19.54	<=33.01	Pass	
		12	6	20.97	-1.40	19.57	<=33.01	Pass	
			13	20.87	-1.40	19.47	<=33.01	Pass	
16QAM		25	0	20.91	-1.40	19.51	<=33.01	Pass	
IOQAW			0	21.60	-1.40	20.20	<=33.01	Pass	
		1	13	21.51	-1.40	20.11	<=33.01	Pass	
			24	21.50	-1.40	20.10	<=33.01	Pass	
	2535		0	20.66	-1.40	19.26	<=33.01	Pass	
		12	6	20.66	-1.40	19.26	<=33.01	Pass	
		12	13	20.65	-1.40	19.25	<=33.01	Pass	
		25	0	20.66	-1.40	19.26	<=33.01	Pass	



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		0	21.87	-1.40	20.47	<=33.01	Pass
	1	13	21.84	-1.40	20.44	<=33.01	Pass
		24	21.75	-1.40	20.35	<=33.01	Pass
2567.5	12	0	20.66	-1.40	19.26	<=33.01	Pass
		6	20.73	-1.40	19.33	<=33.01	Pass
		13	20.75	-1.40	19.35	<=33.01	Pass
	25	0	20.74	-1.40	19.34	<=33.01	Pass

1.2 B7\_10MHz\_EIRP

#### 1.2.1 Test Result

			Band: 7	/ Bandwidth: 10MHz	/ NTNV			
Modulation	Frequency	RB All	ocation	Power	Gain	EIRP	(dBm)	Verdict
Modulation	(MHz)	Size	Offset	(dBm)	(dbi)	Result	Limit	verdict
			0	23.08	-1.40	21.68	<=33.01	Pass
		1	25	22.96	-1.40	21.56	<=33.01	Pass
			49	23.02	-1.40	21.62	<=33.01	Pass
	2505		0	21.97	-1.40	20.57	<=33.01	Pass
		25	13	21.87	-1.40	20.47	<=33.01	Pass
			25	21.94	-1.40	20.54	<=33.01	Pass
		50	0	21.89	-1.40	20.49	<=33.01	Pass
			0	22.88	-1.40	21.48	<=33.01	Pass
		1	25	22.66	-1.40	21.26	<=33.01	Pass
			49	22.54	-1.40	21.14	<=33.01	Pass
QPSK	2535		0	21.67	-1.40	20.27	<=33.01	Pass
		25	13	21.62	-1.40	20.22	<=33.01	Pass
			25	21.64	-1.40	20.24	<=33.01	Pass
		50	0	21.62	-1.40	20.22	<=33.01	Pass
			0	23.01	-1.40	21.61	<=33.01	Pass
		1	25	22.72	-1.40	21.32	<=33.01	Pass
	2565		49	22.54	-1.40	21.14	<=33.01	Pass
		2565	0	21.76	-1.40	20.36	<=33.01	Pass
			13	21.70	-1.40	20.30	<=33.01	Pass
			25	21.68	-1.40	20.28	<=33.01	Pass
	ļ	50	0	21.69	-1.40	20.29	<=33.01	Pass
			0	22.18	-1.40	20.78	<=33.01	Pass
		1	25	22.13	-1.40	20.73	<=33.01	Pass
			49	21.90	-1.40	20.50	<=33.01	Pass
	2505		0	21.08	-1.40	19.68	<=33.01	Pass
		25	13	20.98	-1.40	19.58	<=33.01	Pass
16QAM			25	21.02	-1.40	19.62	<=33.01	Pass
	ļ	50	0	20.88	-1.40	19.48	<=33.01	Pass
T			0	21.90	-1.40	20.50	<=33.01	Pass
	0505	1	25	21.81	-1.40	20.41	<=33.01	Pass
	2535		49	21.63	-1.40	20.23	<=33.01	Pass
	Ţ	25	0	20.68	-1.40	19.28	<=33.01	Pass



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		13	20.67	-1.40	19.27	<=33.01	Pass
		25	20.71	-1.40	19.31	<=33.01	Pass
	50	0	20.64	-1.40	19.24	<=33.01	Pass
		0	22.46	-1.40	21.06	<=33.01	Pass
	1	25	22.22	-1.40	20.82	<=33.01	Pass
		49	22.04	-1.40	20.64	<=33.01	Pass
2565		0	20.82	-1.40	19.42	<=33.01	Pass
	25	13	20.77	-1.40	19.37	<=33.01	Pass
		25	20.76	-1.40	19.36	<=33.01	Pass
	50	0	20.72	-1.40	19.32	<=33.01	Pass
Note1: EIRP=Power+An	tenna Gain					<u> </u>	

### 1.3 B7\_15MHz\_EIRP

#### 1.3.1 Test Result

			Band: 7	/ Bandwidth: 15MHz /	'NTNV			
Modulation	Frequency	RB All	ocation	Power	Gain	EIRP	(dBm)	Verdict
viodulation	(MHz)	Size	Offset	(dBm)	(dbi)	Result	Limit	veruici
			0	22.17	-1.40	20.77	<=33.01	Pass
		1	38	22.64	-1.40	21.24	<=33.01	Pass
			74	22.36	-1.40	20.96	<=33.01	Pass
	2507.5		0	21.68	-1.40	20.28	<=33.01	Pass
		36	18	21.80	-1.40	20.40	<=33.01	Pass
			39	21.84	-1.40	20.44	<=33.01	Pass
		75	0	21.78	-1.40	20.38	<=33.01	Pass
		1	0	22.10	-1.40	20.70	<=33.01	Pass
			38	22.36	-1.40	20.96	<=33.01	Pass
			74	22.13	-1.40	20.73	<=33.01	Pass
QPSK	2535		0	21.64	-1.40	20.24	<=33.01	Pass
		36	18	21.66	-1.40	20.26	<=33.01	Pass
			39	21.75	-1.40	20.35	<=33.01	Pass
		75	0	21.68	-1.40	20.28	<=33.01	Pass
		1	0	22.07	-1.40	20.67	<=33.01	Pass
			38	22.49	-1.40	21.09	<=33.01	Pass
			74	22.11	-1.40	20.71	<=33.01	Pass
	2562.5		0	21.62	-1.40	20.22	<=33.01	Pass
		36	18	21.62	-1.40	20.22	<=33.01	Pass
			39	21.64	-1.40	20.24	<=33.01	Pass
		75	0	21.59	-1.40	20.19	<=33.01	Pass
			0	21.47	-1.40	20.07	<=33.01	Pass
		1	38	21.90	-1.40	20.50	<=33.01	Pass
160414	2507.5		74	21.58	-1.40	20.18	<=33.01	Pass
16QAM	2507.5		0	20.64	-1.40	19.24	<=33.01	Pass
		36	18	20.75	-1.40	19.35	<=33.01	Pass
			39	20.82	-1.40	19.42	<=33.01	Pass



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	75	0	20.74	-1.40	19.34	<=33.01	Pass		
		0	21.16	-1.40	19.76	<=33.01	Pass		
	1	38	21.60	-1.40	20.20	<=33.01	Pass		
		74	21.26	-1.40	19.86	<=33.01	Pass		
2535		0	20.64	-1.40	19.24	<=33.01	Pass		
	36	18	20.69	-1.40	19.29	<=33.01	Pass		
		39	20.78	-1.40	19.38	<=33.01	Pass		
	75	0	20.68	-1.40	19.28	<=33.01	Pass		
		0	21.62	-1.40	20.22	<=33.01	Pass		
	1	38	21.99	-1.40	20.59	<=33.01	Pass		
		74	21.71	-1.40	20.31	<=33.01	Pass		
2562.5		0	20.65	-1.40	19.25	<=33.01	Pass		
	36	18	20.66	-1.40	19.26	<=33.01	Pass		
		39	20.68	-1.40	19.28	<=33.01	Pass		
	75	0	20.60	-1.40	19.20	<=33.01	Pass		
Note1: EIRP=Power+Antenna Gain									

## 1.4 B7\_20MHz\_EIRP

#### 1.4.1 Test Result

			Band: 7	/ Bandwidth: 20MHz /	NTNV			
Modulation	Frequency	RB All	ocation	Power	Gain	EIRP	(dBm)	Verdict
Modulation	(MHz)	Size	Offset	(dBm)	(dbi)	Result	Limit	Verdict
			0	22.29	-1.40	20.89	<=33.01	Pass
		1	50	22.71	-1.40	21.31	<=33.01	Pass
	2510		99	22.71	-1.40	21.31	<=33.01	Pass
			0	21.63	-1.40	20.23	<=33.01	Pass
		50	25	21.68	-1.40	20.28	<=33.01	Pass
			50	21.70	-1.40	20.30	<=33.01	Pass
		100	0	21.66	-1.40	20.26	<=33.01	Pass
			0	22.34	-1.40	20.94	<=33.01	Pass
		1	50	22.51	-1.40	21.11	<=33.01	Pass
			99	22.66	-1.40	21.26	<=33.01	Pass
QPSK	2535	535 50	0	21.53	-1.40	20.13	<=33.01	Pass
			25	21.58	-1.40	20.18	<=33.01	Pass
	_		50	21.58	-1.40	20.18	<=33.01	Pass
		100	0	21.54	-1.40	20.14	<=33.01	Pass
			0	22.23	-1.40	20.83	<=33.01	Pass
		1	50	22.57	-1.40	21.17	<=33.01	Pass
			99	22.47	-1.40	21.07	<=33.01	Pass
	2560		0	21.50	-1.40	20.10	<=33.01	Pass
		50	25	21.53	-1.40	20.13	<=33.01	Pass
			50	21.58	-1.40	20.18	<=33.01	Pass
		100	0	21.61	-1.40	20.21	<=33.01	Pass
16QAM	2510	1	0	21.77	-1.40	20.37	<=33.01	Pass



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		50	22.12	-1.40	20.72	<=33.01	Pass		
		99	22.22	-1.40	20.82	<=33.01	Pass		
		0	20.61	-1.40	19.21	<=33.01	Pass		
	50	25	20.72	-1.40	19.32	<=33.01	Pass		
		50	20.70	-1.40	19.30	<=33.01	Pass		
	100	0	20.64	-1.40	19.24	<=33.01	Pass		
		0	21.52	-1.40	20.12	<=33.01	Pass		
	1	50	21.77	-1.40	20.37	<=33.01	Pass		
		99	22.00	-1.40	20.60	<=33.01	Pass		
2535		0	20.63	-1.40	19.23	<=33.01	Pass		
	50	25	20.67	-1.40	19.27	<=33.01	Pass		
		50	20.69	-1.40	19.29	<=33.01	Pass		
	100	0	20.65	-1.40	19.25	<=33.01	Pass		
		0	21.48	-1.40	20.08	<=33.01	Pass		
	1	50	21.83	-1.40	20.43	<=33.01	Pass		
		99	21.71	-1.40	20.31	<=33.01	Pass		
2560		0	20.53	-1.40	19.13	<=33.01	Pass		
	50	25	20.54	-1.40	19.14	<=33.01	Pass		
		50	20.60	-1.40	19.20	<=33.01	Pass		
	100	0	20.60	-1.40	19.20	<=33.01	Pass		
Note1: EIRP=Power+Antenna Gain									

Remark1:

For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Power [dBm] + Gain [dBd]

EIRP [dBm] = Power [dBm] + Gain [dBi]



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## 2. Frequency Stability

### 2.1 B7\_5MHz

#### 2.1.1 Test Result

				Band:	7 / Bandwid	th: 5MHz							
Modulation	Frequency	RB All	ocation	Temp.	Voltage	Freq. Error	Freq. vs. F	Rated (ppm)	Verdict				
Modulation	(MHz)	Size	Offset	(°C)	(VDC)	(Hz)	Result	Limit	Verdict				
					3.27	4.13	0.00	-2.5 to 2.5	Pass				
				20	3.85	4.53	0.00	-2.5 to 2.5	Pass				
					4.43	4.12	0.00	-2.5 to 2.5	Pass				
				-30	3.85	3.00	0.00	-2.5 to 2.5	Pass				
				-20	3.85	3.08	0.00	-2.5 to 2.5	Pass				
	2502.5	25	0	-10	3.85	3.53	0.00	-2.5 to 2.5	Pass				
				0	3.85	2.57	0.00	-2.5 to 2.5	Pass				
				10	3.85	4.01	0.00	-2.5 to 2.5	Pass				
						30	3.85	4.62	0.00	-2.5 to 2.5	Pass		
				40	3.85	3.23	0.00	-2.5 to 2.5	Pass				
				50	3.85	3.58	0.00	-2.5 to 2.5	Pass				
					3.27	-3.05	-0.00	-2.5 to 2.5	Pass				
				20	3.85	-0.90	-0.00	-2.5 to 2.5	Pass				
			0		4.43	-1.12	-0.00	-2.5 to 2.5	Pass				
				-30	3.85	-2.72	-0.00	-2.5 to 2.5	Pass				
								-20	3.85	-3.12	-0.00	-2.5 to 2.5	Pass
QPSK	2535	25		-10	3.85	-3.16	-0.00	-2.5 to 2.5	Pass				
					0	3.85	-3.60	-0.00	-2.5 to 2.5	Pass			
				10	3.85	-3.08	-0.00	-2.5 to 2.5	Pass				
				30	3.85	-2.12	-0.00	-2.5 to 2.5	Pass				
				40	3.85	-2.32	-0.00	-2.5 to 2.5	Pass				
				50	3.85	-1.50	-0.00	-2.5 to 2.5	Pass				
					3.27	1.79	0.00	-2.5 to 2.5	Pass				
				20	3.85	-1.56	-0.00	-2.5 to 2.5	Pass				
					4.43	-0.53	-0.00	-2.5 to 2.5	Pass				
				-30	3.85	0.54	0.00	-2.5 to 2.5	Pass				
				-20	3.85	2.09	0.00	-2.5 to 2.5	Pass				
	2567.5	25	0	-10	3.85	1.14	0.00	-2.5 to 2.5	Pass				
				0	3.85	1.66	0.00	-2.5 to 2.5	Pass				
				10	3.85	1.76	0.00	-2.5 to 2.5	Pass				
				30	3.85	2.37	0.00	-2.5 to 2.5	Pass				
			<u> </u>	40	3.85	0.87	0.00	-2.5 to 2.5	Pass				
				50	3.85	1.89	0.00	-2.5 to 2.5	Pass				
160 4 4 4	2502.5	25	_	20	3.27	1.82	0.00	-2.5 to 2.5	Pass				
16QAM	2502.5	25	0	20	3.85	3.71	0.00	-2.5 to 2.5	Pass				



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							,								
				4.43	4.19	0.00	-2.5 to 2.5	Pass							
			-30	3.85	4.31	0.00	-2.5 to 2.5	Pass							
			-20	3.85	3.85	0.00	-2.5 to 2.5	Pass							
			-10	3.85	4.03	0.00	-2.5 to 2.5	Pass							
			0	3.85	3.35	0.00	-2.5 to 2.5	Pass							
			10	3.85	4.08	0.00	-2.5 to 2.5	Pass							
			30	3.85	4.92	0.00	-2.5 to 2.5	Pass							
			40	3.85	3.30	0.00	-2.5 to 2.5	Pass							
			50	3.85	4.99	0.00	-2.5 to 2.5	Pass							
				3.27	-1.24	-0.00	-2.5 to 2.5	Pass							
			20	3.85	-3.98	-0.00	-2.5 to 2.5	Pass							
				4.43	-0.46	-0.00	-2.5 to 2.5	Pass							
			-30	3.85	-0.72	-0.00	-2.5 to 2.5	Pass							
		0			-20	3.85	-3.08	-0.00	-2.5 to 2.5	Pass					
2535	25		-10	3.85	-1.29	-0.00	-2.5 to 2.5	Pass							
				0	3.85	-2.62	-0.00	-2.5 to 2.5	Pass						
			10	3.85	-0.62	-0.00	-2.5 to 2.5	Pass							
										30	3.85	-3.26	-0.00	-2.5 to 2.5	Pass
			40	3.85	-2.36	-0.00	-2.5 to 2.5	Pass							
			50	3.85	-0.39	-0.00	-2.5 to 2.5	Pass							
				3.27	1.47	0.00	-2.5 to 2.5	Pass							
			20	3.85	-0.29	-0.00	-2.5 to 2.5	Pass							
				4.43	-0.16	-0.00	-2.5 to 2.5	Pass							
			-30	3.85	-0.09	0.00	-2.5 to 2.5	Pass							
			-20	3.85	-0.04	0.00	-2.5 to 2.5	Pass							
2567.5	25	0	-10	3.85	1.12	0.00	-2.5 to 2.5	Pass							
	20		0	3.85	2.00	0.00	-2.5 to 2.5	Pass							
			10	3.85	0.40	0.00	-2.5 to 2.5	Pass							
			30	3.85	0.64	0.00	-2.5 to 2.5	Pass							
			40	3.85	2.60	0.00	-2.5 to 2.5	Pass							
			50	3.85	0.93	0.00	-2.5 to 2.5	Pass							

### 2.2 B7\_10MHz

### 2.2.1 Test Result

	Band: 7 / Bandwidth: 10MHz											
Modulation	Addulation Frequency RB Allocation				Voltage	Freq. Error	Freq. vs. F	Rated (ppm)	Verdict			
Modulation	(MHz)	Size	Offset	(°C)	(VDC)	(Hz)	Result	Limit	verdict			
					3.27	-2.98	-0.00	-2.5 to 2.5	Pass			
				20	3.85	-2.40	-0.00	-2.5 to 2.5	Pass			
					4.43	-1.79	-0.00	-2.5 to 2.5	Pass			
QPSK	2505	50	0	-30	3.85	-2.16	-0.00	-2.5 to 2.5	Pass			
				-20	3.85	-0.47	-0.00	-2.5 to 2.5	Pass			
				-10	3.85	-2.98	-0.00	-2.5 to 2.5	Pass			
				0	3.85	-2.82	-0.00	-2.5 to 2.5	Pass			



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30					10	3.85	-2.19	-0.00	-2.5 to 2.5	Pass							
40																	
Section   Sect																	
2535 50 0 1-10 3.85																	
2535 50 0 1-10 3.85 -2.47 -0.00 -2.5 to 2.5 Pass   2536 50 0 -10 3.85 -2.26 -0.00 -2.5 to 2.5 Pass   2537 50 0 -10 3.85 -2.36 -0.00 -2.5 to 2.5 Pass   2538 50 0 -10 3.85 -2.26 -0.00 -2.5 to 2.5 Pass   2538 50 0 -10 3.85 -2.26 -0.00 -2.5 to 2.5 Pass   2539 -10 -10 3.85 -2.26 -0.00 -2.5 to 2.5 Pass   2539 -10 -10 3.85 -2.26 -0.00 -2.5 to 2.5 Pass   2530 -10 -10 3.85 -2.26 -0.00 -2.5 to 2.5 Pass   2531 -10 -10 -10 -10 -10 -10 -10 -10 -10 -1					30												
2535 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					20												
2535 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					20												
2535 50 0					30												
2535 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																	
16QAM		2535	50	_													
10		2000	30														
16QAM   3.85																	
A0																	
SO																	
2565   50   0   -10   3.85   -2.46   -0.00   -2.5 to 2.5   Pass																	
2565 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					30												
2565 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					20												
2565 50 0 0 -10 3.85 -2.46 -0.00 -2.5 to 2.5					20												
2565 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					20												
2565																	
16QAM		2565	50	_													
10   3.85   -1.36   -0.00   -2.5 to 2.5   Pass		2303	30	0													
16QAM    30																	
16QAM																	
16QAM																	
16QAM  20  3.27  -2.65  -0.00  -2.5 to 2.5  Pass  4.43  -0.79  -0.00  -2.5 to 2.5  Pass  -30  3.85  -1.46  -0.00  -2.5 to 2.5  Pass  -30  3.85  -1.46  -0.00  -2.5 to 2.5  Pass  -20  3.85  -3.29  -0.00  -2.5 to 2.5  Pass  -20  3.85  -3.29  -0.00  -2.5 to 2.5  Pass  -20  3.85  -3.30  -0.00  -2.5 to 2.5  Pass  -20  3.85  -3.30  -0.00  -2.5 to 2.5  Pass  10  3.85  -3.05  -0.00  -2.5 to 2.5  Pass  -0  3.85  -2.26  -0.00  -2.5 to 2.5  Pass  40  3.85  -2.26  -0.00  -2.5 to 2.5  Pass  -0  3.85  -1.85  -0.00  -2.5 to 2.5  Pass  -0  3.85  -1.85  -0.00  -2.5 to 2.5  Pass  -0  3.85  -2.88  -0.00  -2.5 to 2.5  Pass  -20  3.85  -2.88  -0.00  -2.5 to 2.5  Pass  -30  3.85  -2.88  -0.00  -2.5 to 2.5  Pass  -30  3.85  -2.05  -0.00  -2.5 to 2.5  Pass  -30  3.85  -2.05  -0.00  -2.5 to 2.5  Pass  -20  3.85  -2.06  -0.00  -2.5 to 2.5  Pass  -30  3.85  -2.05  -0.00  -2.5 to 2.5  Pass  -20  3.85  -2.06  -0.00  -2.5 to 2.5  Pass  -30  3.85  -2.07  -0.00  -2.5 to 2.5  Pass  -20  3.85  -2.05  -0.00  -2.5 to 2.5																	
16QAM  20  3.85  -2.13  -0.00  -2.5 to 2.5  Pass  4.43  -0.79  -0.00  -2.5 to 2.5  Pass  -30  3.85  -1.46  -0.00  -2.5 to 2.5  Pass  -20  3.85  -20  3.85  -3.29  -0.00  -2.5 to 2.5  Pass  0  3.85  -1.37  -0.00  -2.5 to 2.5  Pass  10  3.85  -3.05  -0.00  -2.5 to 2.5  Pass  30  3.85  -2.26  -0.00  -2.5 to 2.5  Pass  40  3.85  -2.26  -0.00  -2.5 to 2.5  Pass  40  3.85  -2.75  -0.00  -2.5 to 2.5  Pass  50  3.85  -1.85  -0.00  -2.5 to 2.5  Pass  50  3.85  -1.85  -0.00  -2.5 to 2.5  Pass  4.43  -1.13  -0.00  -2.5 to 2.5  Pass  -30  3.85  -2.88  -0.00  -2.5 to 2.5  Pass  -30  3.85  -2.05  -0.00  -2.5 to 2.5  Pass  -30  3.85  -2.05  -0.00  -2.5 to 2.5  Pass  -20  3.85  -2.07  -0.00  -2.5 to 2.5  Pass  -30  3.85  -2.05  -0.00  -2.5 to 2.5  Pass  -30  3.85  -2.05  -0.00  -2.5 to 2.5  Pass  -20  3.85  -2.07  -0.00  -2.5 to 2.5  Pass  -30  3.85  -2.06  -0.00  -2.5 to 2.5  Pass  10  3.85  -2.05  -0.00  -2.5 to 2.5  Pass  -20  3.85  -2.07  -0.00  -2.5 to 2.5  Pass  -20  -20  3.85  -2.07  -0.00  -2.5 to 2.5  -					30												
16QAM  2505  50  0  10  11  12  13  14.43  15.79  15.00  1					20												
16QAM  2505  50  0  0  0  0  0  0  0  0  0  0  0					-							20					
2505 50 0 0 3.85 -3.29 -0.00 -2.5 to 2.5 Pass 0 3.85 -3.30 -0.00 -2.5 to 2.5 Pass 10 3.85 -3.05 -0.00 -2.5 to 2.5 Pass 30 3.85 -2.26 -0.00 -2.5 to 2.5 Pass 40 3.85 -2.75 -0.00 -2.5 to 2.5 Pass 50 3.85 -1.85 -0.00 -2.5 to 2.5 Pass 20 3.85 -2.88 -0.00 -2.5 to 2.5 Pass 20 3.85 -2.05 -0.00 -2.5 to 2.5 Pass 20 3.85 -2.06 -0.00 -2.5 to 2.5 Pass 20 3.85 -2.06 -0.00 -2.5 to 2.5 Pass 20 3.85 -2.06 -0.00 -2.5 to 2.5 Pass 20 3.85 -2.02 -0.00 -2.5 to 2.5 Pass 20 3.85 -2.00 -2.5 to 2.5 Pass 20 3.85 -2.02 -0.00 -2.5 to 2.5 Pass 20 3.85 -							30										
16QAM  2505  50  0  -10  3.85  -3.30  -0.00  -2.5 to 2.5  Pass  10  3.85  -3.05  -0.00  -2.5 to 2.5  Pass  30  3.85  -2.26  -0.00  -2.5 to 2.5  Pass  40  3.85  -2.26  -0.00  -2.5 to 2.5  Pass  40  3.85  -2.75  -0.00  -2.5 to 2.5  Pass  50  3.85  -1.85  -0.00  -2.5 to 2.5  Pass  50  3.85  -1.85  -0.00  -2.5 to 2.5  Pass  50  3.27  -5.02  -0.00  -2.5 to 2.5  Pass  20  3.85  -2.88  -0.00  -2.5 to 2.5  Pass  4.43  -1.13  -0.00  -2.5 to 2.5  Pass  -30  3.85  -2.05  -0.00  -2.5 to 2.5  Pass  -30  3.85  -2.05  -0.00  -2.5 to 2.5  Pass  -20  3.85  -2.07  -0.00  -2.5 to 2.5  Pass  -20  3.85  -2.07  -0.00  -2.5 to 2.5  Pass  -20  3.85  -2.07  -0.00  -2.5 to 2.5  Pass  -20  3.85  -2.06  -0.00  -2.5 to 2.5  Pass  10  3.85  -2.06  -0.00  -2.5 to 2.5  Pass  40  3.85  -2.06  -0.00  -2.5 to 2.5  Pass  -2.05  -0.00  -2.5 to 2.5  -2.05  -2.05  -2.06  -2.06  -2.07  -2.06  -2.07  -2.06  -2.07  -2.06  -2.07  -2.06  -2.07  -2.06  -2.07  -2.000  -2.5 to 2.5  -2.06  -2.07  -2.06  -2.06  -2.06  -2.07  -2.000  -2.5 to 2.5  -2.06  -2.06  -2.07  -2.06  -2.06  -2.06  -2.06  -2.07  -2.06  -2.06  -2.06  -2.06  -2.07  -2.06  -2.																	
16QAM  16QAM    0   3.85   -1.37   -0.00   -2.5 to 2.5   Pass		2505	50	_													
16QAM  10 3.85 -3.05 -0.00 -2.5 to 2.5 Pass 30 3.85 -2.26 -0.00 -2.5 to 2.5 Pass 40 3.85 -2.75 -0.00 -2.5 to 2.5 Pass 50 3.85 -1.85 -0.00 -2.5 to 2.5 Pass 50 3.85 -1.85 -0.00 -2.5 to 2.5 Pass 20 3.85 -2.88 -0.00 -2.5 to 2.5 Pass 4.43 -1.13 -0.00 -2.5 to 2.5 Pass -30 3.85 -2.05 -0.00 -2.5 to 2.5 Pass -20 3.85 -2.05 -0.00 -2.5 to 2.5 Pass 50 3.85 -2.07 -0.00 -2.5 to 2.5 Pass 10 3.85 -2.06 -0.00 -2.5 to 2.5 Pass 10 3.85 -2.06 -0.00 -2.5 to 2.5 Pass 10 3.85 -2.02 -0.00 -2.5 to 2.5 Pass 30 3.85 -1.32 -0.00 -2.5 to 2.5 Pass 40 3.85 -3.91 -0.00 -2.5 to 2.5 Pass		2303	30														
16QAM    16QAM																	
16QAM    40   3.85   -2.75   -0.00   -2.5 to 2.5   Pass					_												
16QAM																	
16QAM  20  3.27  -5.02  -0.00  -2.5 to 2.5  Pass  4.43  -1.13  -0.00  -2.5 to 2.5  Pass  4.43  -1.13  -0.00  -2.5 to 2.5  Pass  -30  3.85  -2.05  -0.00  -2.5 to 2.5  Pass  -20  3.85  -2.07  -0.00  -2.5 to 2.5  Pass  -20  3.85  -2.07  -0.00  -2.5 to 2.5  Pass  -20  3.85  -2.07  -0.00  -2.5 to 2.5  Pass  -20  3.85  -2.05  -0.00  -2.5 to 2.5  Pass  -20  3.85  -2.05  -0.00  -2.5 to 2.5  Pass  -2.05  -0.00  -2.5 to 2.5  -																	
20 3.85 -2.88 -0.00 -2.5 to 2.5 Pass 4.43 -1.13 -0.00 -2.5 to 2.5 Pass -30 3.85 -2.05 -0.00 -2.5 to 2.5 Pass -20 3.85 -2.07 -0.00 -2.5 to 2.5 Pass -20 3.85 -2.05 -0.00 -2.5 to 2.5 Pass 0 3.85 -2.05 -0.00 -2.5 to 2.5 Pass 0 3.85 -2.66 -0.00 -2.5 to 2.5 Pass 10 3.85 -2.02 -0.00 -2.5 to 2.5 Pass 30 3.85 -1.32 -0.00 -2.5 to 2.5 Pass 40 3.85 -3.91 -0.00 -2.5 to 2.5 Pass	16QAM				00												
2535 50 0 4.43 -1.13 -0.00 -2.5 to 2.5 Pass -30 3.85 -2.05 -0.00 -2.5 to 2.5 Pass -20 3.85 -2.07 -0.00 -2.5 to 2.5 Pass -20 3.85 -2.05 -0.00 -2.5 to 2.5 Pass -2.05 -0.00 -2.5 to 2.5 Pass -2.05 -0.00 -2.5 to 2.5 Pass -2.06 -0.00 -2.5 to 2.5 Pass -2.06 -0.00 -2.5 to 2.5 Pass -2.02 -0.00 -2.5 to 2.5 Pass -2.02 -0.00 -2.5 to 2.5 Pass -2.02 -0.00 -2.5 to 2.5 Pass -30 3.85 -1.32 -0.00 -2.5 to 2.5 Pass -3.91 -0.00 -2.5 to 2.5					20												
2535 50 0 0 3.85 -2.05 -0.00 -2.5 to 2.5 Pass -20 3.85 -2.07 -0.00 -2.5 to 2.5 Pass -2.07 -0.00 -2.5 to 2.5 Pass 0 3.85 -2.05 -0.00 -2.5 to 2.5 Pass 0 3.85 -2.66 -0.00 -2.5 to 2.5 Pass 10 3.85 -2.02 -0.00 -2.5 to 2.5 Pass 30 3.85 -1.32 -0.00 -2.5 to 2.5 Pass 40 3.85 -3.91 -0.00 -2.5 to 2.5 Pass																	
2535 50 0					-30												
2535 50 0 -10 3.85 -2.05 -0.00 -2.5 to 2.5 Pass 0 3.85 -2.06 -0.00 -2.5 to 2.5 Pass 10 3.85 -2.02 -0.00 -2.5 to 2.5 Pass 30 3.85 -1.32 -0.00 -2.5 to 2.5 Pass 40 3.85 -3.91 -0.00 -2.5 to 2.5 Pass		2535 50															
0     3.85     -2.66     -0.00     -2.5 to 2.5     Pass       10     3.85     -2.02     -0.00     -2.5 to 2.5     Pass       30     3.85     -1.32     -0.00     -2.5 to 2.5     Pass       40     3.85     -3.91     -0.00     -2.5 to 2.5     Pass			0	0													
10     3.85     -2.02     -0.00     -2.5 to 2.5     Pass       30     3.85     -1.32     -0.00     -2.5 to 2.5     Pass       40     3.85     -3.91     -0.00     -2.5 to 2.5     Pass					0												
30 3.85 -1.32 -0.00 -2.5 to 2.5 Pass 40 3.85 -3.91 -0.00 -2.5 to 2.5 Pass																	
40 3.85 -3.91 -0.00 -2.5 to 2.5 Pass																	
					50	3.85	-2.59	-0.00	-2.5 to 2.5	Pass							



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				3.27	-3.71	-0.00	-2.5 to 2.5	Pass
			20	3.85	-4.51	-0.00	-2.5 to 2.5	Pass
			4	4.43	-1.63	-0.00	-2.5 to 2.5	Pass
			-30	3.85	-4.35	-0.00	-2.5 to 2.5	Pass
		0	-20	3.85	-2.56	-0.00	-2.5 to 2.5	Pass
2565	50		-10	3.85	-2.09	-0.00	-2.5 to 2.5	Pass
			0	3.85	-3.19	-0.00	-2.5 to 2.5	Pass
			10	3.85	-3.00	-0.00	-2.5 to 2.5	Pass
			30	3.85	-1.99	-0.00	-2.5 to 2.5	Pass
			40	3.85	-4.82	-0.00	-2.5 to 2.5	Pass
			50	3.85	-3.63	-0.00	-2.5 to 2.5	Pass

### 2.3 B7\_15MHz

### 2.3.1 Test Result

				Band: 7	′ / Bandwidt	h: 15MHz			
Modulation	Frequency	RB All	ocation	Temp.	Voltage	Freq. Error	Freq. vs. F	Rated (ppm)	Verdict
Modulation	(MHz)	Size	Offset	(°C)	(VDC)	(Hz)	Result	Limit	Verdict
					3.27	-0.49	-0.00	-2.5 to 2.5	Pass
				20	3.85	0.54	0.00	-2.5 to 2.5	Pass
				4.43	1.06	0.00	-2.5 to 2.5	Pass	
				-30	3.85	0.31	0.00	-2.5 to 2.5	Pass
				-20	3.85	1.39	0.00	-2.5 to 2.5	Pass
	2507.5	75	0	-10	3.85	1.87	0.00	-2.5 to 2.5	Pass
				0	3.85	0.60	0.00	-2.5 to 2.5	Pass
			10	3.85	0.11	0.00	-2.5 to 2.5	Pass	
			30	3.85	1.26	0.00	-2.5 to 2.5	Pass	
				40	3.85	0.59	0.00	-2.5 to 2.5	Pass
			50	3.85	0.47	0.00	-2.5 to 2.5	Pass	
					3.27	-3.88	-0.00	-2.5 to 2.5	Pass
				20	3.85	-2.07	-0.00	-2.5 to 2.5	Pass
QPSK					4.43	-3.19	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-2.62	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-3.16	-0.00	-2.5 to 2.5	Pass
	2535	75	0	-10	3.85	-3.79	-0.00	-2.5 to 2.5	Pass
				0	3.85	-2.40	-0.00	-2.5 to 2.5	Pass
				10	3.85	-3.09	-0.00	-2.5 to 2.5	Pass
				30	3.85	-2.62	-0.00	-2.5 to 2.5	Pass
				40	3.85	-2.55	-0.00	-2.5 to 2.5	Pass
				50	3.85	-2.93	-0.00	-2.5 to 2.5	Pass
					3.27	1.67	0.00	-2.5 to 2.5	Pass
			75 0	20	3.85	1.93	0.00	-2.5 to 2.5	Pass
	2562.5	75			4.43	3.15	0.00	-2.5 to 2.5	Pass
				-30	3.85	2.56	0.00	-2.5 to 2.5	Pass
				-20	3.85	1.27	0.00	-2.5 to 2.5	Pass



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				-10	3.85	2.45	0.00	-2.5 to 2.5	Pass
				0	3.85	2.65	0.00	-2.5 to 2.5	Pass
				10	3.85	1.32	0.00	-2.5 to 2.5	Pass
				30	3.85	1.02	0.00	-2.5 to 2.5	Pass
				40	3.85	2.06	0.00	-2.5 to 2.5	Pass
				50	3.85	2.73	0.00	-2.5 to 2.5	Pass
					3.27	1.47	0.00	-2.5 to 2.5	Pass
				20	3.85	0.07	0.00	-2.5 to 2.5	Pass
					4.43	0.60	0.00	-2.5 to 2.5	Pass
				-30	3.85	0.67	0.00	-2.5 to 2.5	Pass
				-20	3.85	0.34	0.00	-2.5 to 2.5	Pass
	2507.5	75	0	-10	3.85	-0.99	-0.00	-2.5 to 2.5	Pass
				0	3.85	-0.51	-0.00	-2.5 to 2.5	Pass
				10	3.85	0.41	0.00	-2.5 to 2.5	Pass
				30	3.85	0.93	0.00	-2.5 to 2.5	Pass
				40	3.85	-0.53	-0.00	-2.5 to 2.5	Pass
				50	3.85	-0.31	-0.00	-2.5 to 2.5	Pass
i -					3.27	-2.79	-0.00	-2.5 to 2.5	Pass
				20	3.85	-4.16	-0.00	-2.5 to 2.5	Pass
					4.43	-2.63	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-4.19	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-1.29	-0.00	-2.5 to 2.5	Pass
16QAM	2535	75	0	-10	3.85	-3.68	-0.00	-2.5 to 2.5	Pass
				0	3.85	-4.42	-0.00	-2.5 to 2.5	Pass
				10	3.85	-4.62	-0.00	-2.5 to 2.5	Pass
				30	3.85	-3.06	-0.00	-2.5 to 2.5	Pass
				40	3.85	-4.26	-0.00	-2.5 to 2.5	Pass
				50	3.85	-4.84	-0.00	-2.5 to 2.5	Pass
					3.27	1.10	0.00	-2.5 to 2.5	Pass
				20	3.85	1.26	0.00	-2.5 to 2.5	Pass
					4.43	2.22	0.00	-2.5 to 2.5	Pass
				-30	3.85	2.20	0.00	-2.5 to 2.5	Pass
				-20	3.85	0.04	0.00	-2.5 to 2.5	Pass
	2562.5	2562.5 75	0	-10	3.85	-0.07	0.00	-2.5 to 2.5	Pass
			-	0	3.85	1.42	0.00	-2.5 to 2.5	Pass
				10	3.85	0.97	0.00	-2.5 to 2.5	Pass
				30	3.85	0.10	0.00	-2.5 to 2.5	Pass
				40	3.85	2.88	0.00	-2.5 to 2.5	Pass
				50	3.85	1.95	0.00	-2.5 to 2.5	Pass



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### 2.4 B7\_20MHz

#### 2.4.1 Test Result

				Band: 7	/ Bandwidt	h: 20MHz			
Modulation	Frequency	RB All	ocation	Temp.	Voltage	Freq. Error	Freq. vs. F	Rated (ppm)	Verdict
Modulation	(MHz)	Size	Offset	(°C)	(VDC)	(Hz)	Result	Limit	Verdict
					3.27	2.63	0.00	-2.5 to 2.5	Pass
				20	3.85	0.87	0.00	-2.5 to 2.5	Pass
					4.43	1.17	0.00	-2.5 to 2.5	Pass
				-30	3.85	1.37	0.00	-2.5 to 2.5	Pass
				-20	3.85	1.75	0.00	-2.5 to 2.5	Pass
	2510	100	0	-10	3.85	3.82	0.00	-2.5 to 2.5	Pass
				0	3.85	1.96	0.00	-2.5 to 2.5	Pass
				10	3.85	1.57	0.00	-2.5 to 2.5	Pass
				30	3.85	2.27	0.00	-2.5 to 2.5	Pass
				40	3.85	2.75	0.00	-2.5 to 2.5	Pass
				50	3.85	1.37	0.00	-2.5 to 2.5	Pass
					3.27	-2.93	-0.00	-2.5 to 2.5	Pass
				20	3.85	-2.80	-0.00	-2.5 to 2.5	Pass
				4.43	-3.05	-0.00	-2.5 to 2.5	Pass	
			0	-30	3.85	-2.46	-0.00	-2.5 to 2.5	Pass
				-20	3.85	-3.10	-0.00	-2.5 to 2.5	Pass
QPSK	2535	100		-10	3.85	-1.92	-0.00	-2.5 to 2.5	Pass
				0	3.85	-3.45	-0.00	-2.5 to 2.5	Pass
				10	3.85	-2.57	-0.00	-2.5 to 2.5	Pass
				30	3.85	-3.89	-0.00	-2.5 to 2.5	Pass
				40	3.85	-3.00	-0.00	-2.5 to 2.5	Pass
				50	3.85	-3.38	-0.00	-2.5 to 2.5	Pass
				20	3.27	-0.57	-0.00	-2.5 to 2.5	Pass
					3.85	0.90	0.00	-2.5 to 2.5	Pass
					4.43	-0.27	-0.00	-2.5 to 2.5	Pass
				-30	3.85	-0.39	-0.00	-2.5 to 2.5	Pass
				-20	3.85	1.80	0.00	-2.5 to 2.5	Pass
	2560	100	0	-10	3.85	0.36	0.00	-2.5 to 2.5	Pass
				0	3.85	1.24	0.00	-2.5 to 2.5	Pass
				10	3.85	0.76	0.00	-2.5 to 2.5	Pass
				30	3.85	-0.11	0.00	-2.5 to 2.5	Pass
				40	3.85	1.02	0.00	-2.5 to 2.5	Pass
				50	3.85	0.60	0.00	-2.5 to 2.5	Pass
					3.27	0.59	0.00	-2.5 to 2.5	Pass
			0	20	3.85	1.79	0.00	-2.5 to 2.5	Pass
16QAM	2510	100			4.43	1.43	0.00	-2.5 to 2.5	Pass
		.00		-30	3.85	1.82	0.00	-2.5 to 2.5	Pass
				-20	3.85	2.70	0.00	-2.5 to 2.5	Pass



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			-10	3.85	0.29	0.00	-2.5 to 2.5	Pass				
			0	3.85	0.16	0.00	-2.5 to 2.5	Pass				
			10	3.85	0.19	0.00	-2.5 to 2.5	Pass				
			30	3.85	0.59	0.00	-2.5 to 2.5	Pass				
			40	3.85	1.86	0.00	-2.5 to 2.5	Pass				
			50	3.85	1.13	0.00	-2.5 to 2.5	Pass				
				3.27	-4.21	-0.00	-2.5 to 2.5	Pass				
			20	3.85	-4.85	-0.00	-2.5 to 2.5	Pass				
				4.43	-4.23	-0.00	-2.5 to 2.5	Pass				
			-30	3.85	-3.49	-0.00	-2.5 to 2.5	Pass				
			-20	3.85	-3.13	-0.00	-2.5 to 2.5	Pass				
2535	100	0	0	-10	3.85	-3.30	-0.00	-2.5 to 2.5	Pass			
			0	3.85	-4.84	-0.00	-2.5 to 2.5	Pass				
			10	3.85	-1.80	-0.00	-2.5 to 2.5	Pass				
			30	3.85	-2.92	-0.00	-2.5 to 2.5	Pass				
							40	3.85	-3.06	-0.00	-2.5 to 2.5	Pass
			50	3.85	-1.63	-0.00	-2.5 to 2.5	Pass				
				3.27	-1.17	-0.00	-2.5 to 2.5	Pass				
			20	3.85	-0.77	-0.00	-2.5 to 2.5	Pass				
				4.43	0.73	0.00	-2.5 to 2.5	Pass				
			-30	3.85	0.30	0.00	-2.5 to 2.5	Pass				
			-20	3.85	0.26	0.00	-2.5 to 2.5	Pass				
2560	100	0	-10	3.85	-1.66	-0.00	-2.5 to 2.5	Pass				
			0	3.85	0.64	0.00	-2.5 to 2.5	Pass				
			10	3.85	-0.29	-0.00	-2.5 to 2.5	Pass				
			30	3.85	0.57	0.00	-2.5 to 2.5	Pass				
			40	3.85	-0.47	-0.00	-2.5 to 2.5	Pass				
			50	3.85	-0.34	-0.00	-2.5 to 2.5	Pass				



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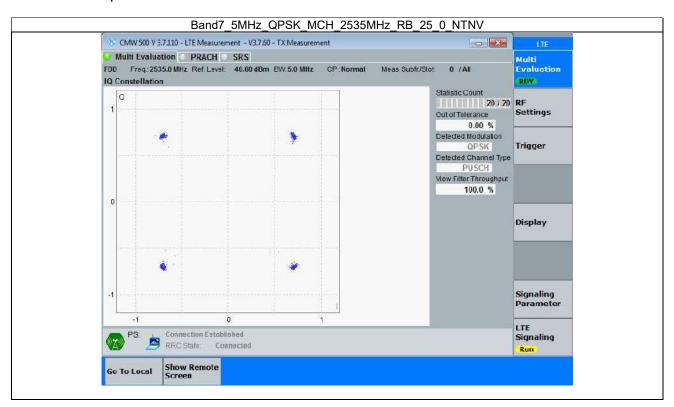
### 3. Modulation Characteristics

### 3.1 B7\_5MHz

#### 3.1.1 Test Result

	Band: 7 / Bandwidth: 5MHz / NTNV										
Modulation	Frequency	RB Alle	ocation	cation Modulation Chara		Verdict					
Modulation	(MHz)	Size	Offset	Result	Limit	Verdict					
QPSK	2535	25	0	Refer To Test Graph		Pass					
16QAM	2535	25	0	Refer To Tes	Pass						

### 3.1.2 Test Graph





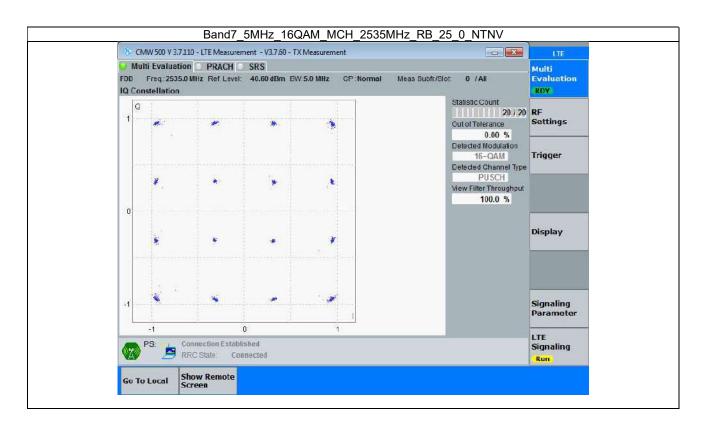
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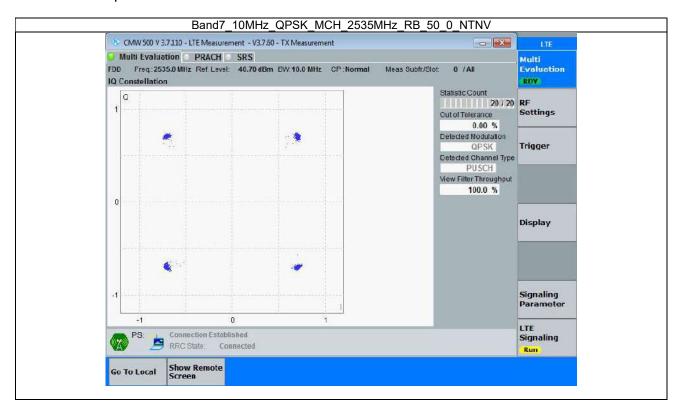
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### 3.2 B7\_10MHz

#### 3.2.1 Test Result

	Band: 7 / Bandwidth: 10MHz / NTNV									
Modulation	Frequency	RB Allo	ocation	Modulation Cha	Modulation Characteristics					
iviodulation	(MHz)	Size	Offset	Result	Limit	Verdict				
QPSK	2535	50	0	Refer To Test Graph		Pass				
16QAM	2535	50	0	Refer To Tes	Pass					

### 3.2.2 Test Graph





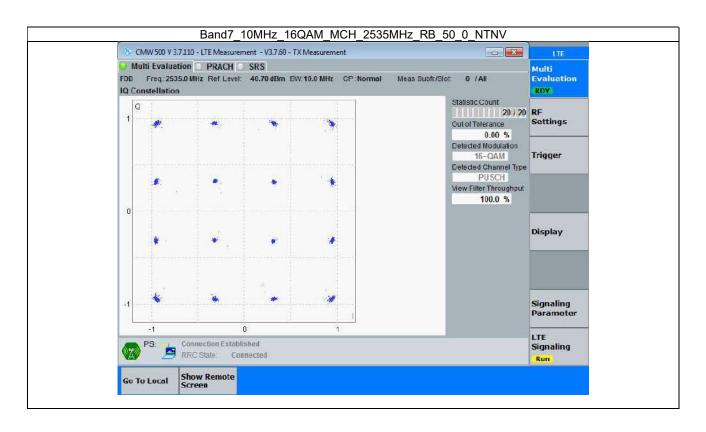
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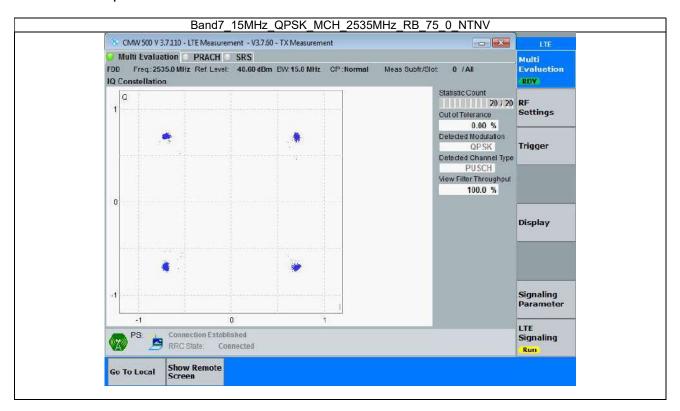
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### 3.3 B7\_15MHz

#### 3.3.1 Test Result

	Band: 7 / Bandwidth: 15MHz / NTNV										
Modulation	Frequency	RB Allocation		Modulation Char	Verdict						
iviodulation	(MHz)	Size	Offset	Result	Limit	Verdict					
QPSK	2535	75	0	Refer To Test Graph		Pass					
16QAM	2535	75	0	Refer To Test	Graph	Pass					

### 3.3.2 Test Graph





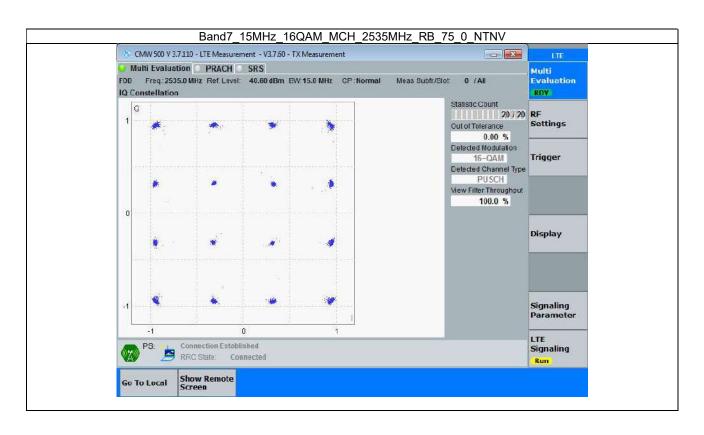
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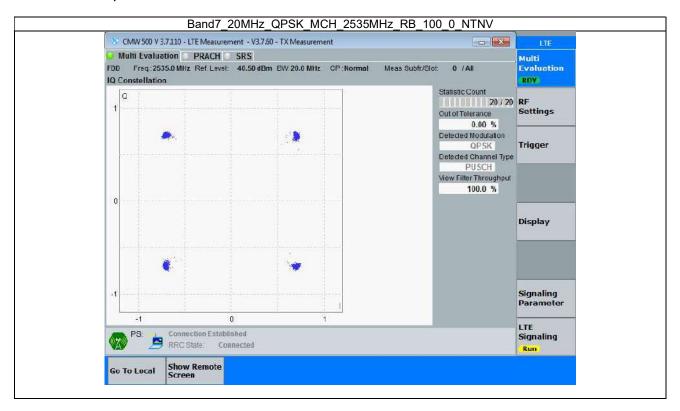
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### 3.4 B7\_20MHz

#### 3.4.1 Test Result

	Band: 7 / Bandwidth: 20MHz / NTNV										
Modulation	Modulation Frequency		ocation	Modulation Char	acteristics	Verdict					
Modulation	(MHz)	Size	Offset	Result	Limit	verdict					
QPSK	2535	100	0	Refer To Test Graph		Pass					
16QAM	2535	100	0	Refer To Test	t Graph	Pass					

### 3.4.2 Test Graph





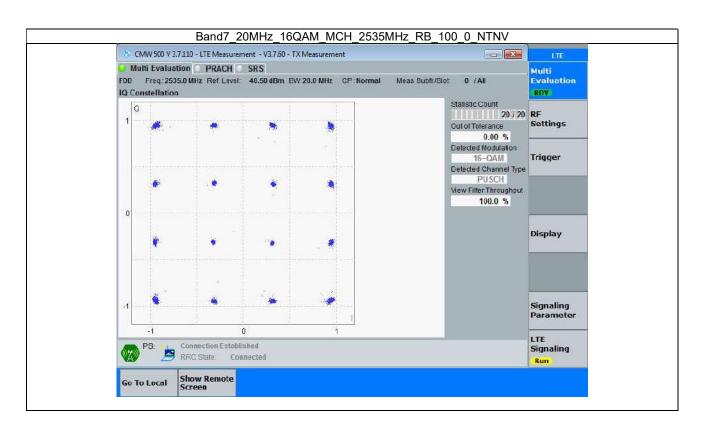
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### 4. 99% & 26dB Bandwidth

### 4.1 Band7\_OBW

### 4.1.1 Test Result

				7 / NTNV		
Bandwidth (MHz)	Modulation	Frequency	RB All	ocation	99% Occupied Bandwidth (MHz)	Verdict
Dandwidth (Mi iz)	Modulation	(MHz)	Size	Offset	Result	Verdict
		2502.5	25	0	4.552	Pass
	QPSK	2535	25	0	4.552	Pass
5		2567.5	25	0	4.553	Pass
3		2502.5	25	0	4.555	Pass
	16QAM	2535	25	0	4.533	Pass
		2567.5	25	0	4.583	Pass
		2505	50	0	9.082	Pass
	QPSK	2535	50	0	9.029	Pass
10		2565	50	0	9.046	Pass
10		2505	50	0	9.047	Pass
	16QAM	2535	50	0	9.048	Pass
		2565	50	0	9.045	Pass
	QPSK	2507.5	75	0	13.594	Pass
		2535	75	0	13.582	Pass
45		2562.5	75	0	13.603	Pass
15		2507.5	75	0	13.592	Pass
	16QAM	2535	75	0	13.586	Pass
		2562.5	75	0	13.651	Pass
		2510	100	0	18.080	Pass
	QPSK	2535	100	0	18.096	Pass
00		2560	100	0	18.112	Pass
20		2510	100	0	18.149	Pass
	16QAM	2535	100	0	18.120	Pass
		2560	100	0	18.064	Pass



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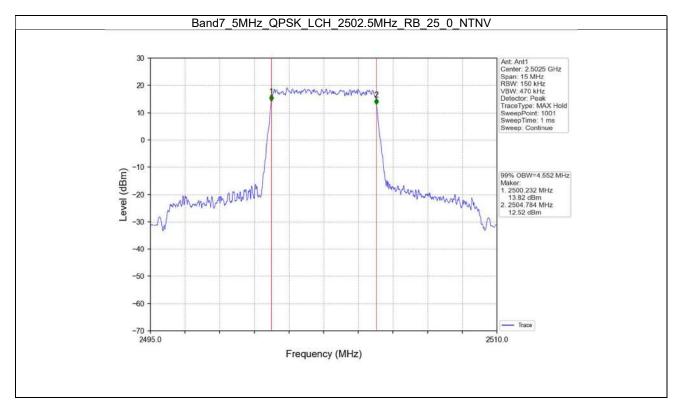
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## 4.1.2 Test Graph





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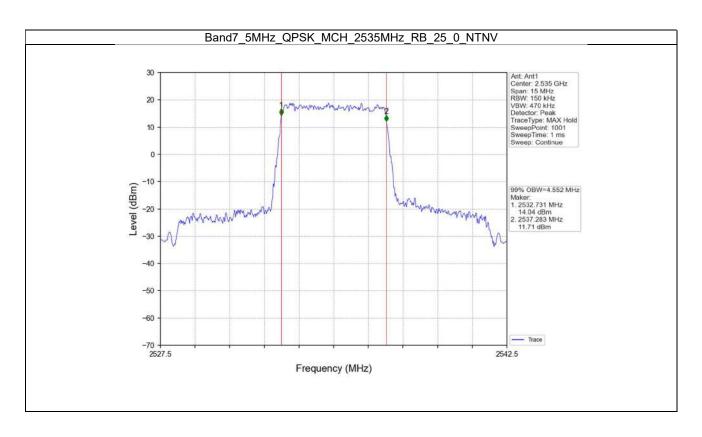
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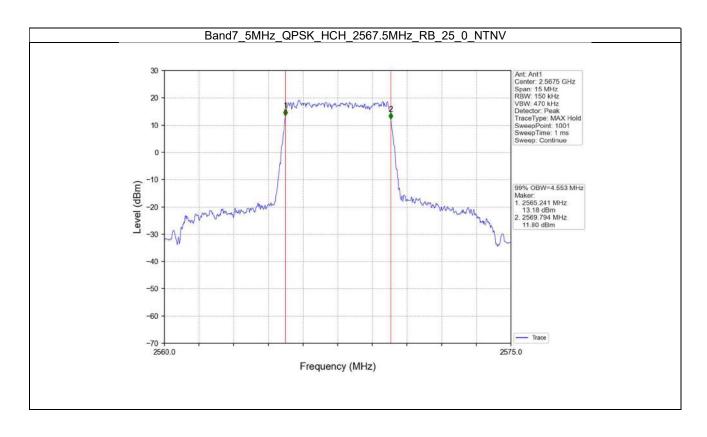
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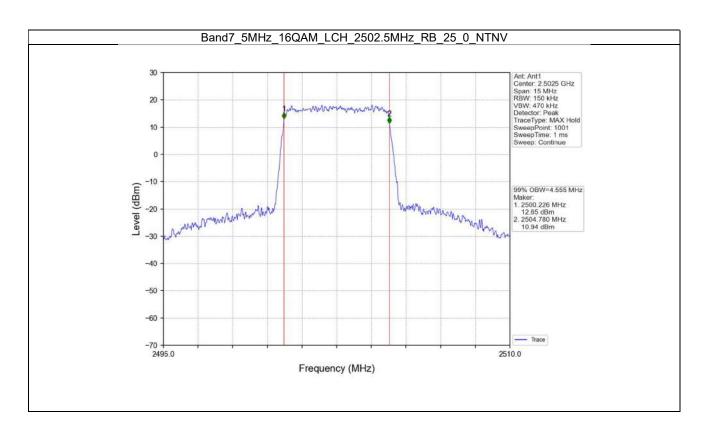
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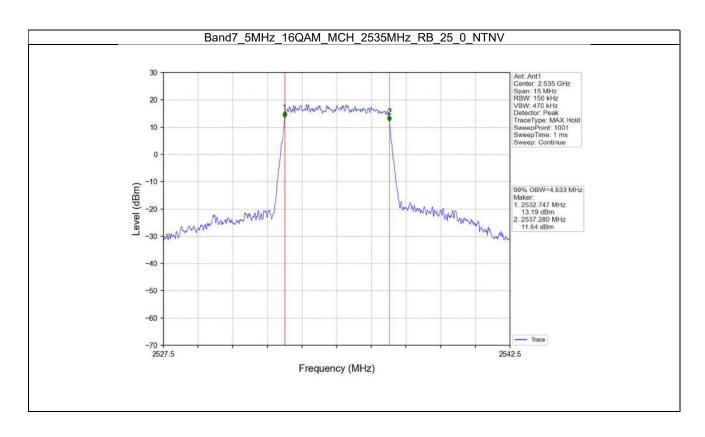
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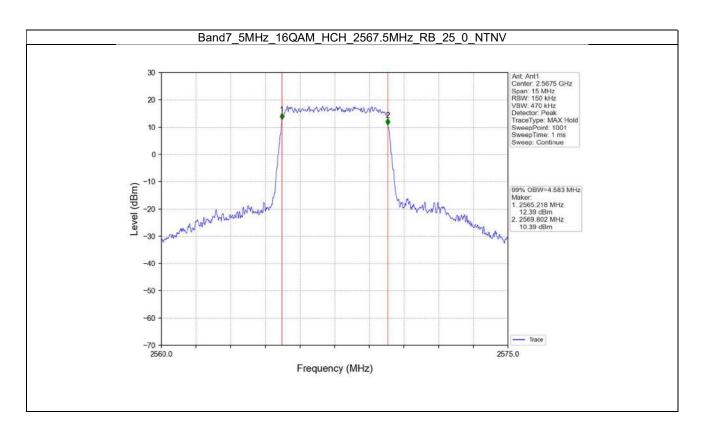
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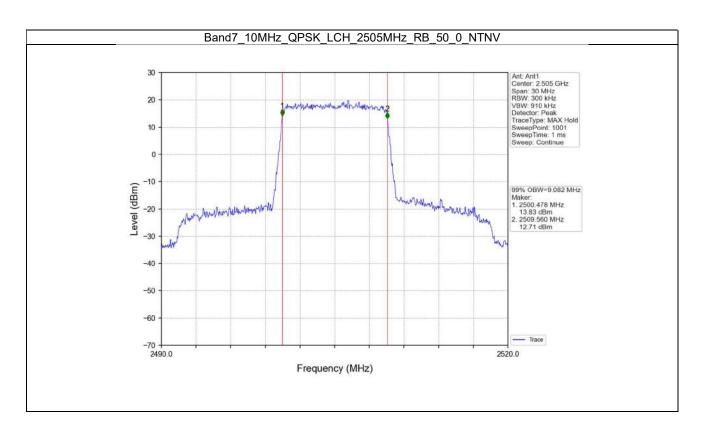
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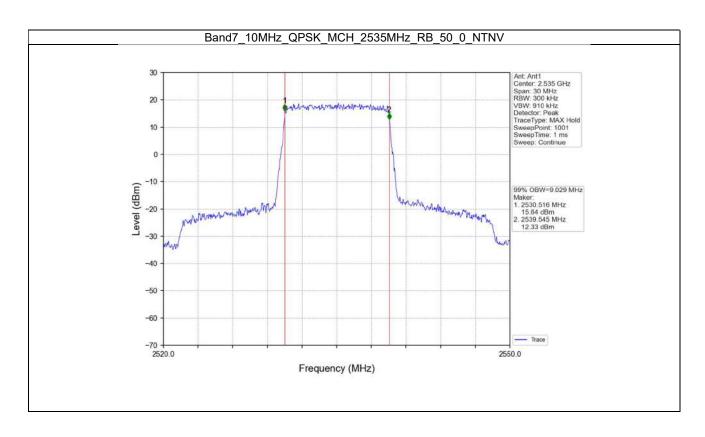
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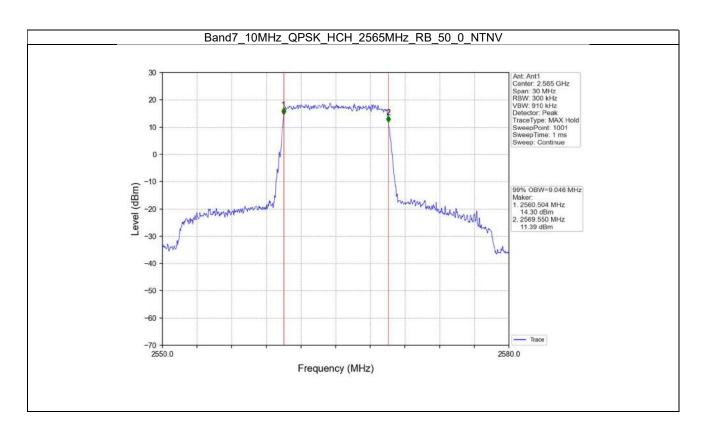
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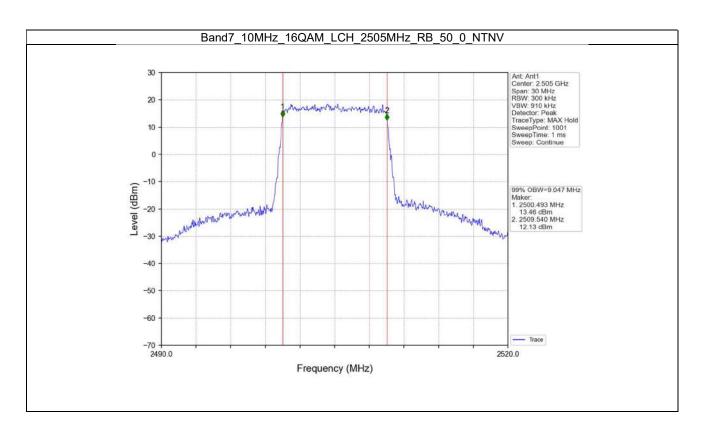
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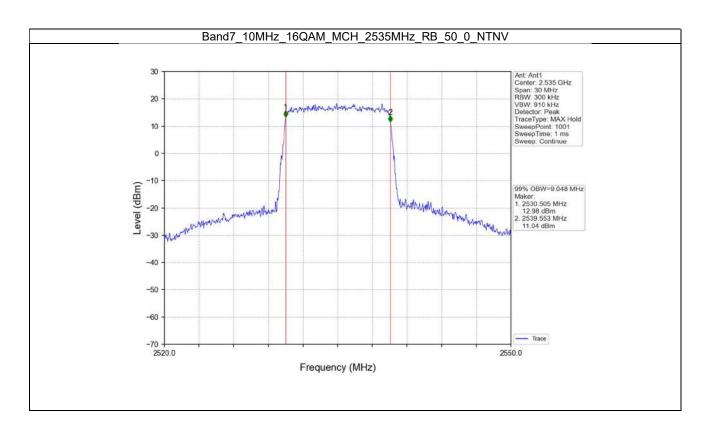
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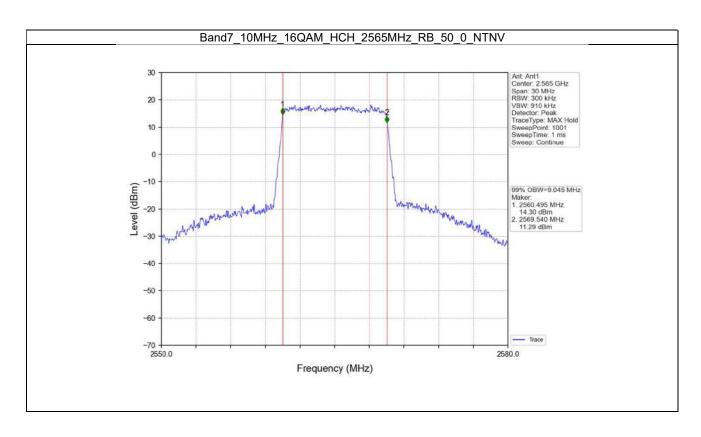
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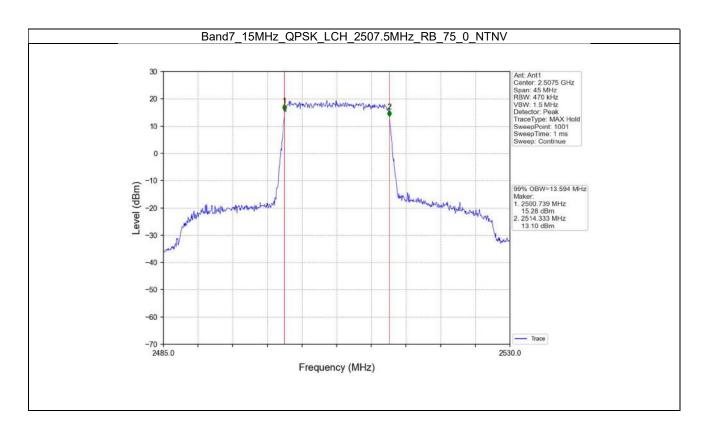
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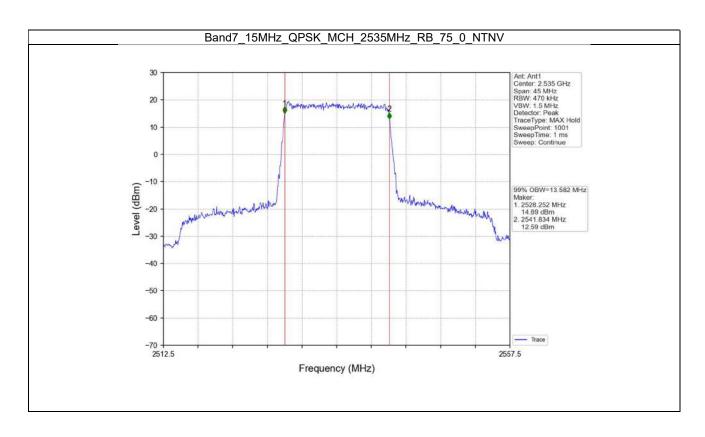
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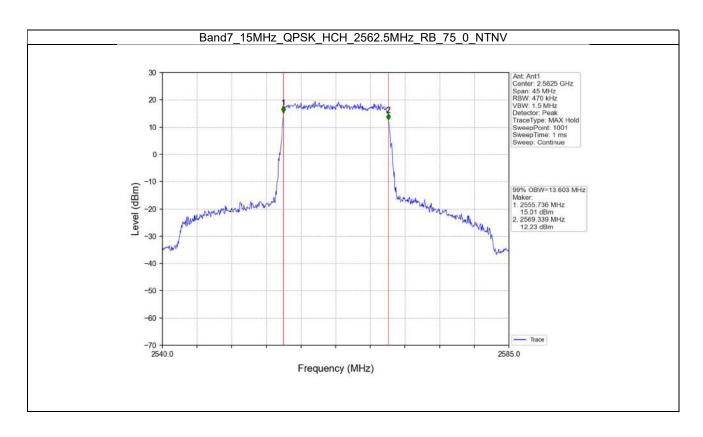
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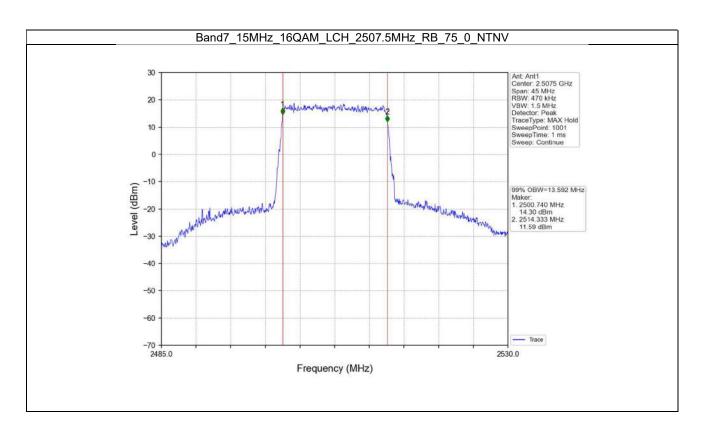
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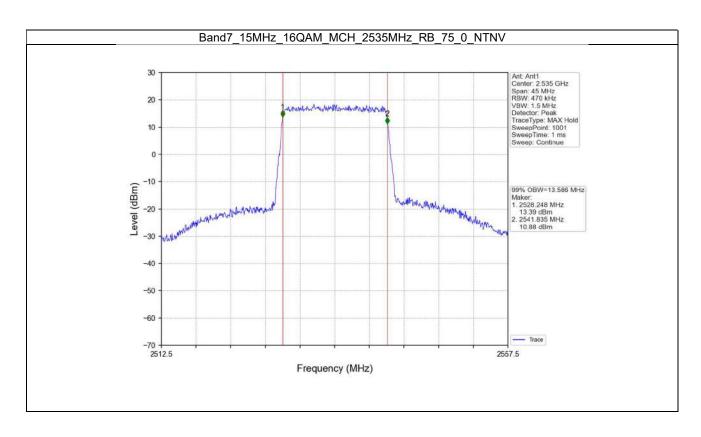
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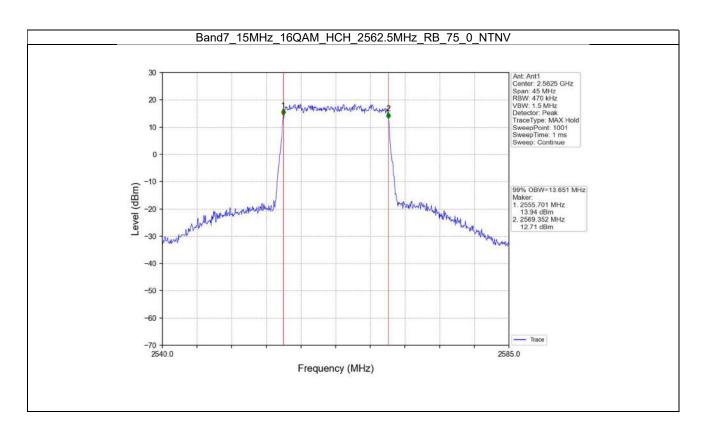
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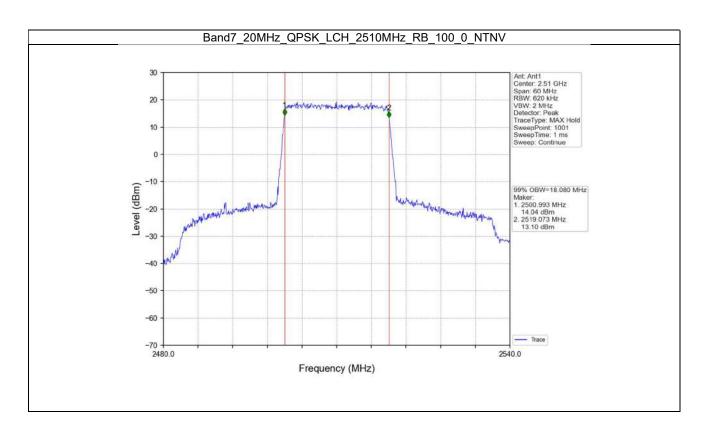
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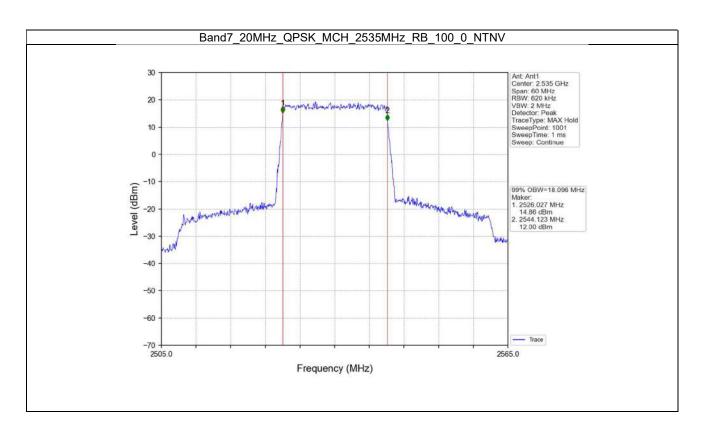
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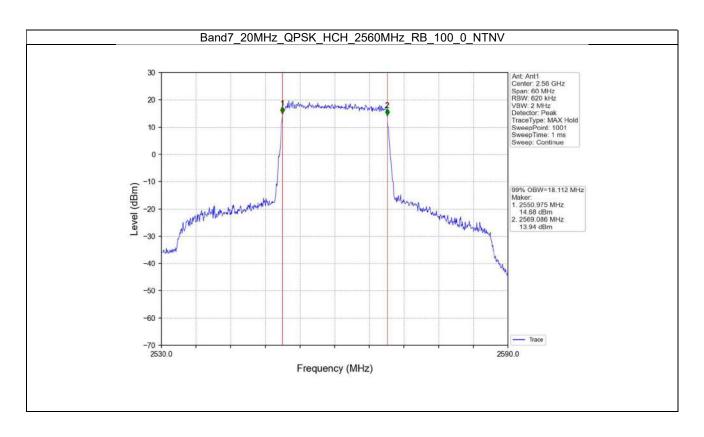
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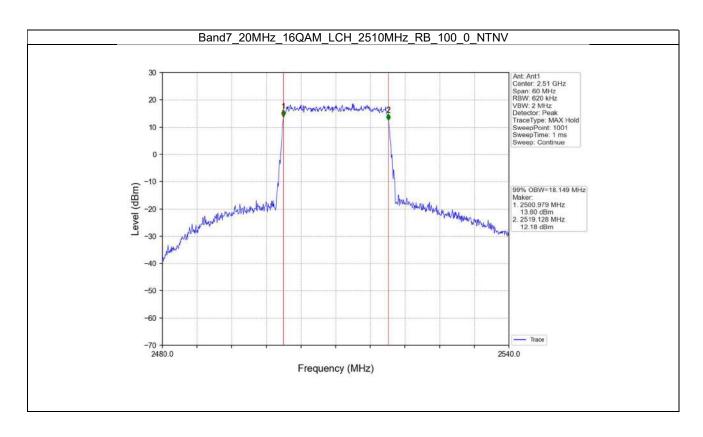
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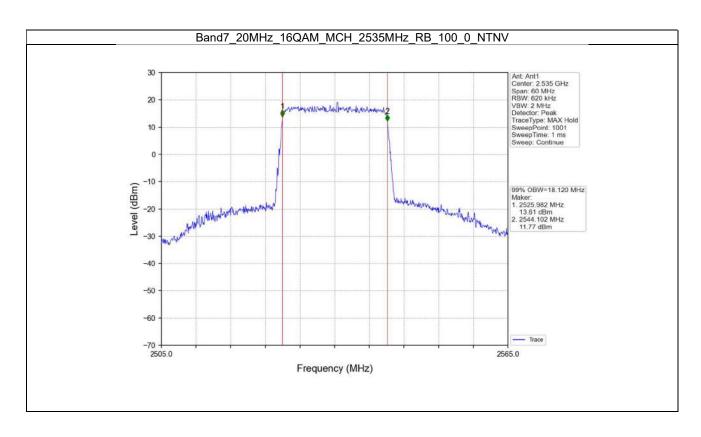
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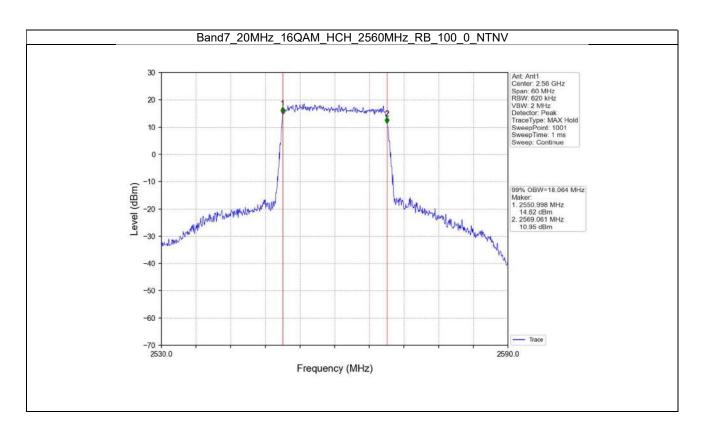
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#### 4.2 Band7\_XDB

#### 4.2.1 Test Result

			Band: 7 / N	TNV		
Bandwidth (MHz)	Modulation	Frequency	RB Allocation		26dB Bandwidth (MHz)	Vardiet
		(MHz)	Size	Offset	Result	Verdict
5	QPSK	2502.5	25	0	5.070	Pass
		2535	25	0	5.112	Pass
		2567.5	25	0	5.114	Pass
	16QAM	2502.5	25	0	5.077	Pass
		2535	25	0	5.072	Pass
		2567.5	25	0	5.109	Pass
10	QPSK	2505	50	0	10.033	Pass
		2535	50	0	10.105	Pass
		2565	50	0	10.123	Pass
	16QAM	2505	50	0	9.961	Pass
		2535	50	0	10.010	Pass
		2565	50	0	9.981	Pass
	QPSK	2507.5	75	0	15.052	Pass
15		2535	75	0	14.954	Pass
		2562.5	75	0	15.075	Pass
	16QAM	2507.5	75	0	15.023	Pass
		2535	75	0	15.052	Pass
		2562.5	75	0	15.021	Pass
20	QPSK	2510	100	0	19.925	Pass
		2535	100	0	20.011	Pass
		2560	100	0	19.729	Pass
	16QAM	2510	100	0	19.965	Pass
		2535	100	0	19.917	Pass
		2560	100	0	19.750	Pass



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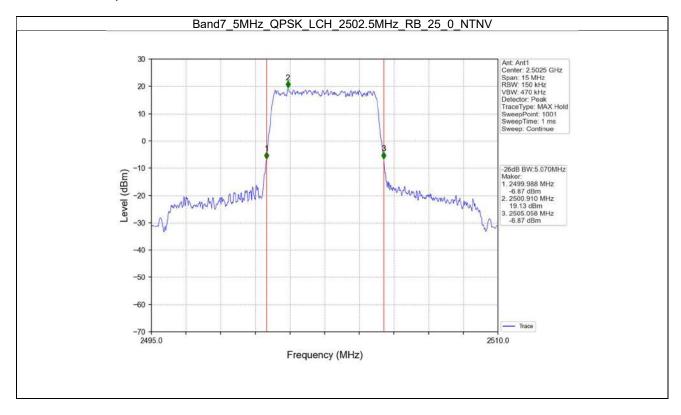
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#### 4.2.2 Test Graph





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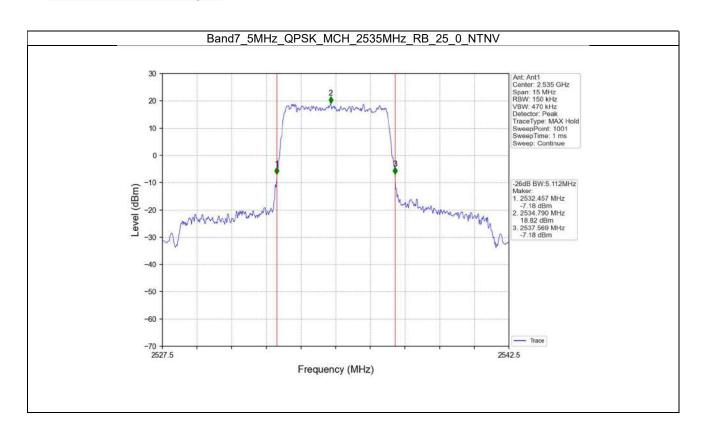
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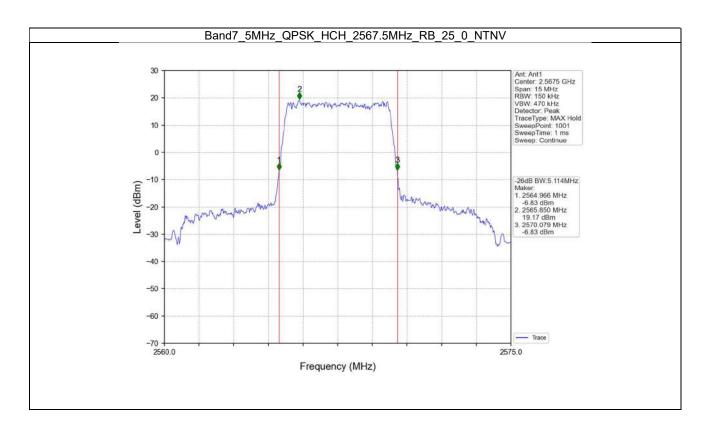
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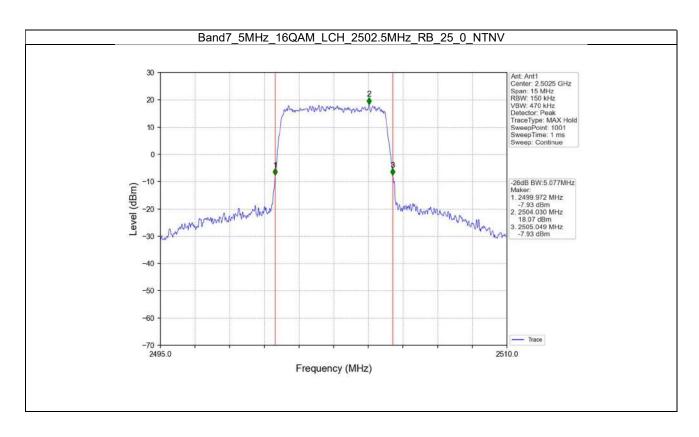
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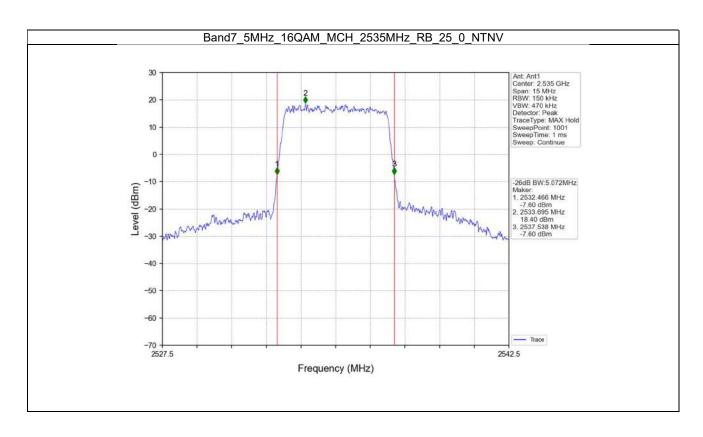
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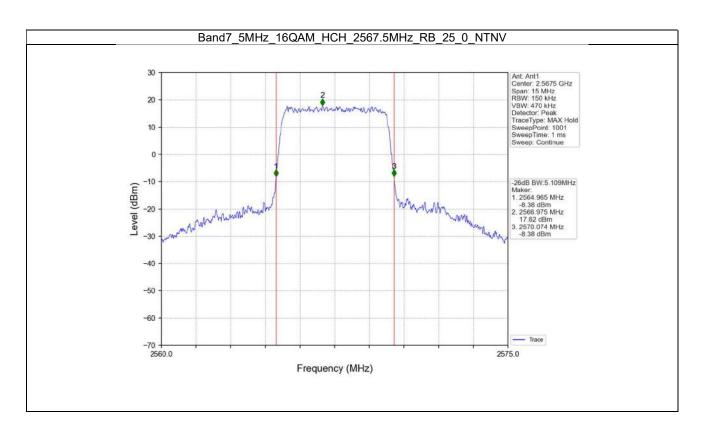
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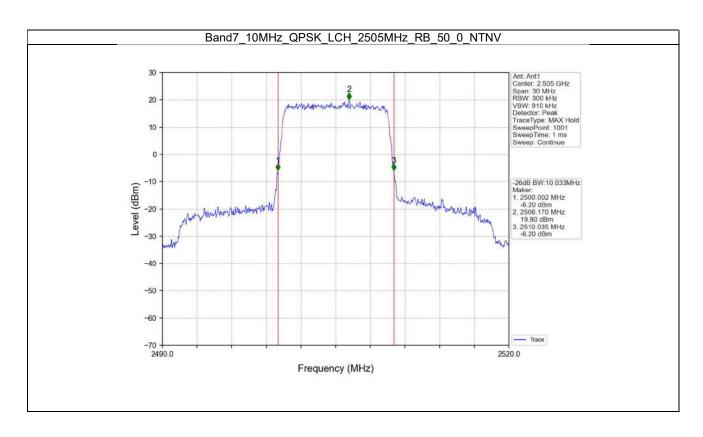
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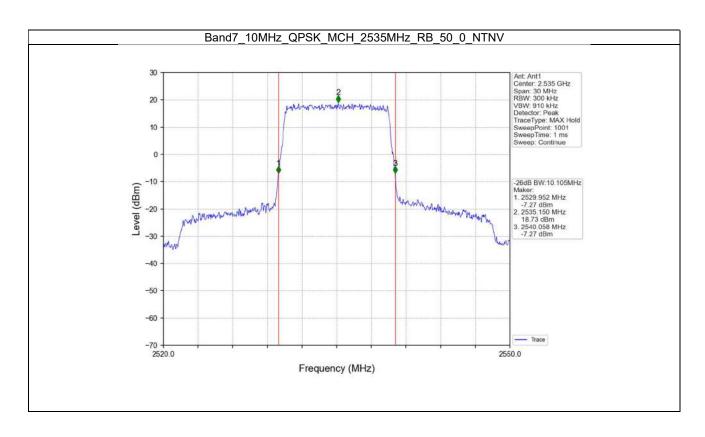
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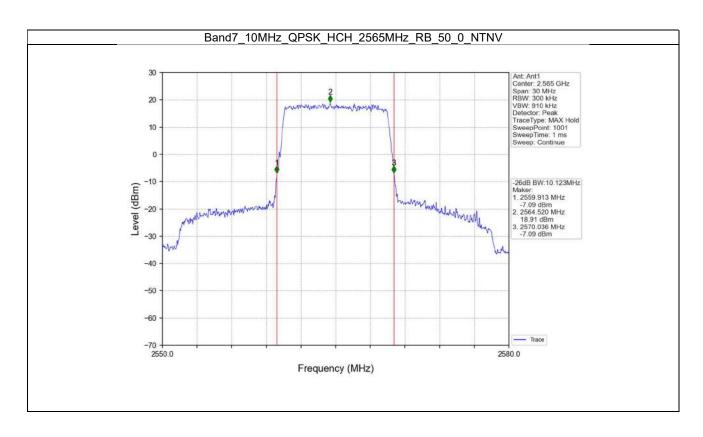
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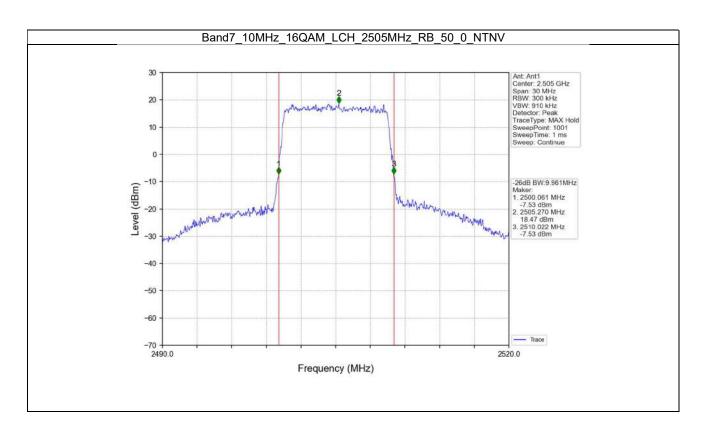
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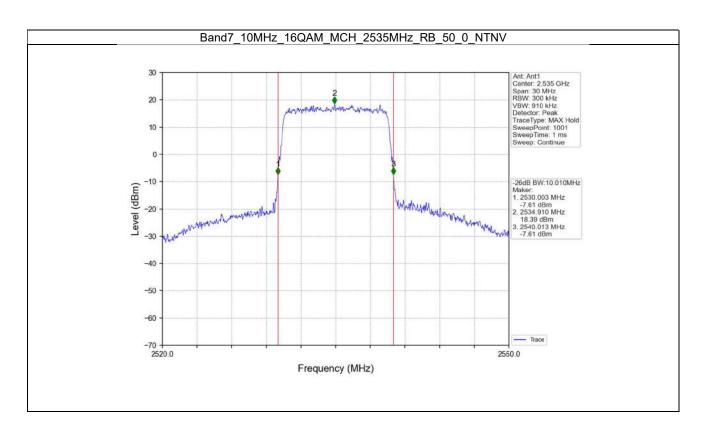
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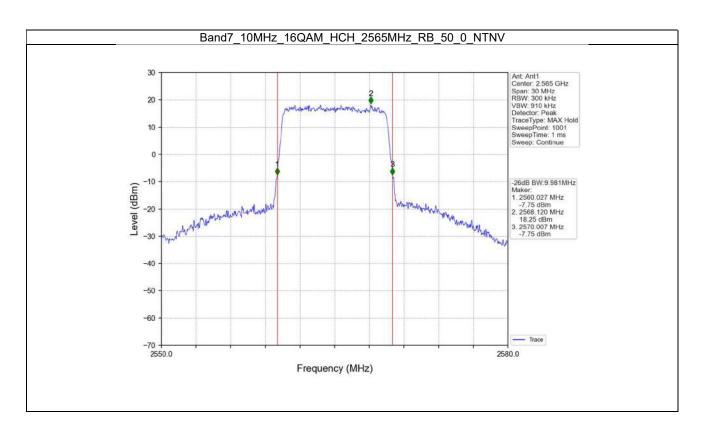
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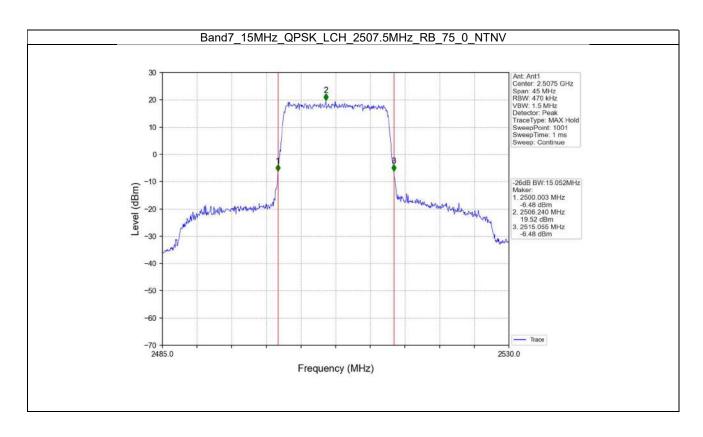
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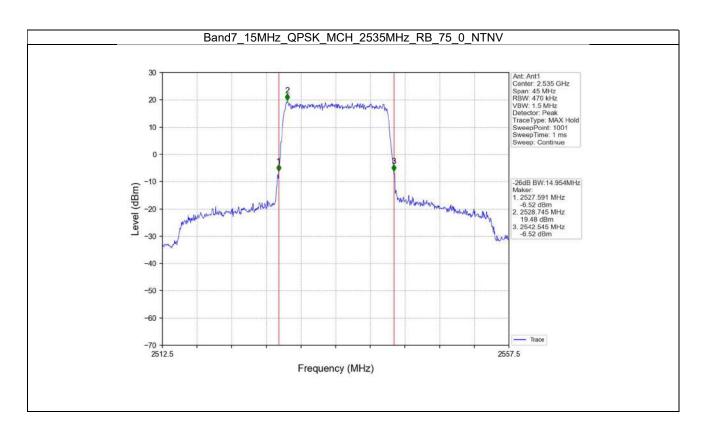
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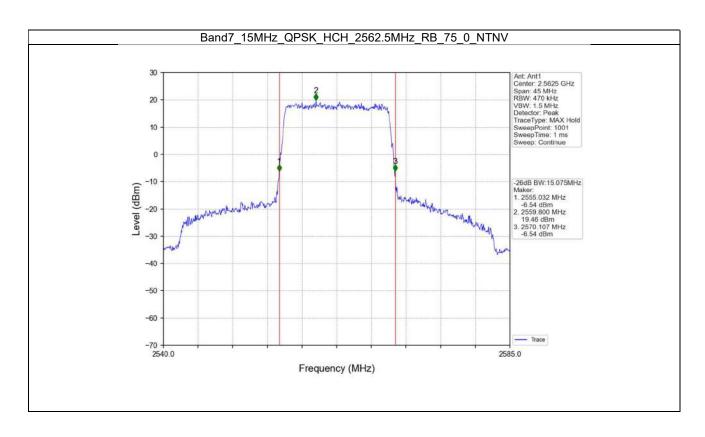
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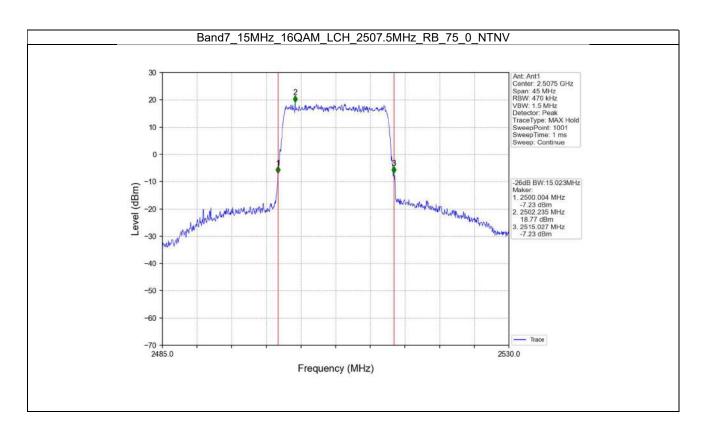
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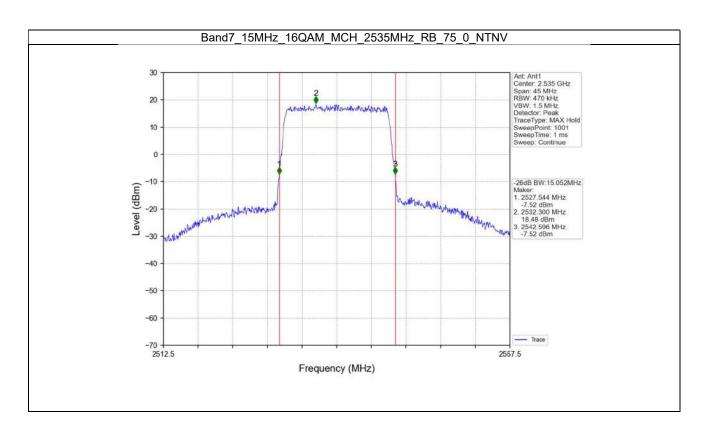
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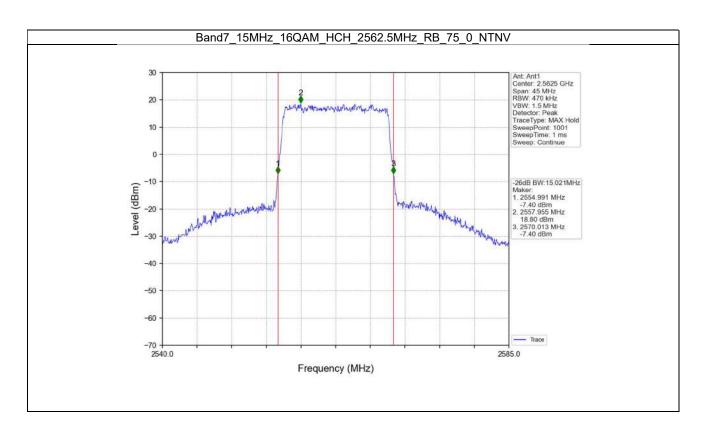
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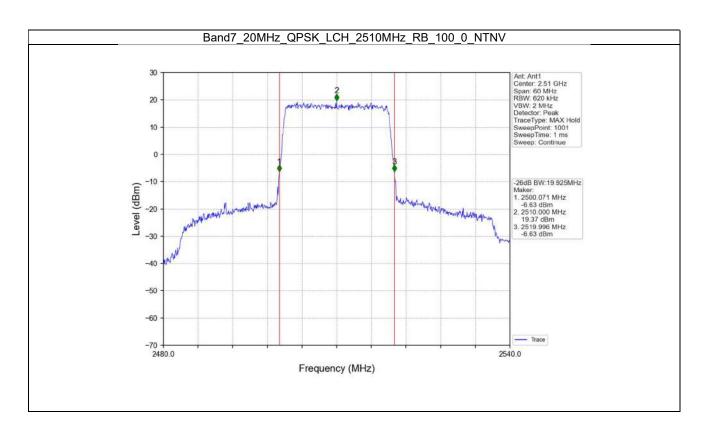
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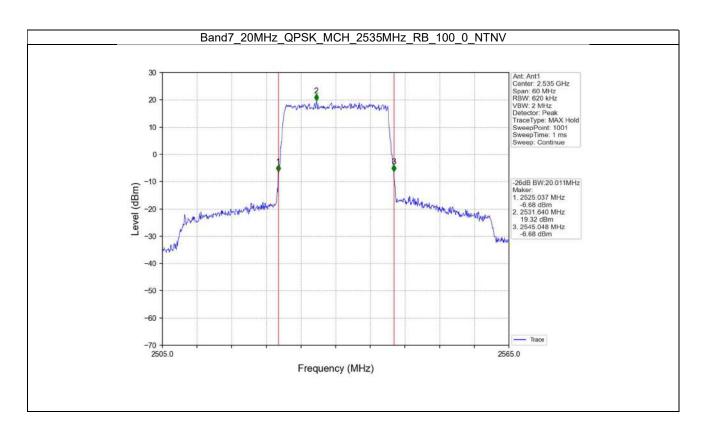
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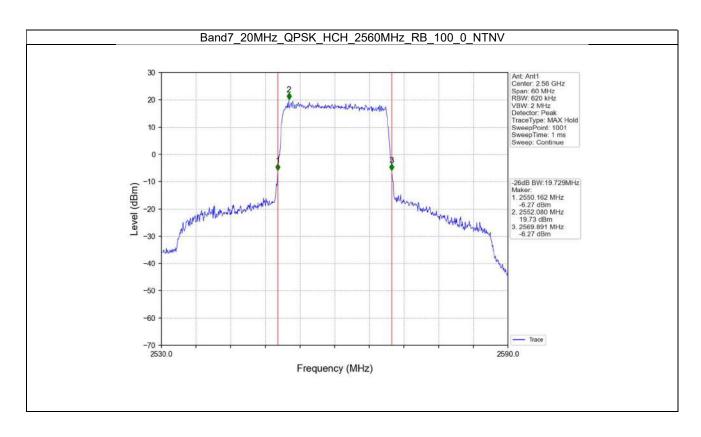
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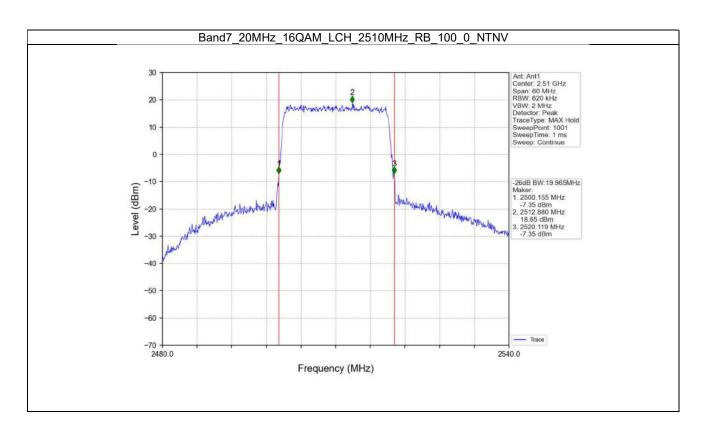
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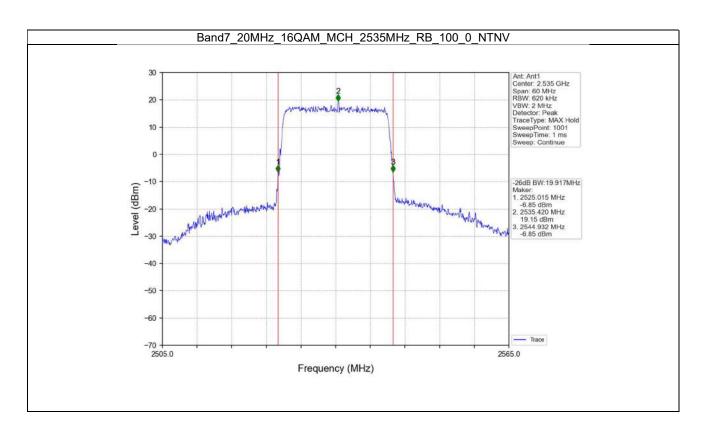
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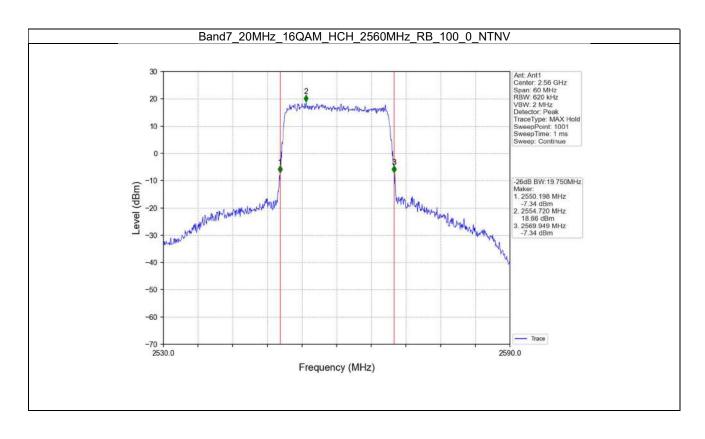
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# 5. Peak-Average Ratio

5.1 B7\_5MHz

#### 5.1.1 Test Result

Band: 7 / Bandwidth: 5MHz / NTNV									
Modulation	Frequency	RB Allocation		Peak-Average Ratio (dB)		Verdict			
	(MHz)	Size	Offset	Result	Limit	verdict			
QPSK	2502.5	25	0	5.46	<=13	Pass			
	2535	25	0	5.48	<=13	Pass			
	2567.5	25	0	5.36	<=13	Pass			
16QAM	2502.5	25	0	6.13	<=13	Pass			
	2535	25	0	6.12	<=13	Pass			
	2567.5	25	0	6.08	<=13	Pass			



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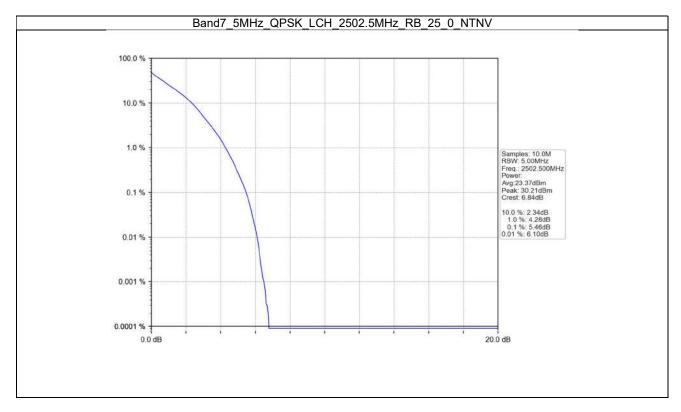
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#### 5.1.2 Test Graph





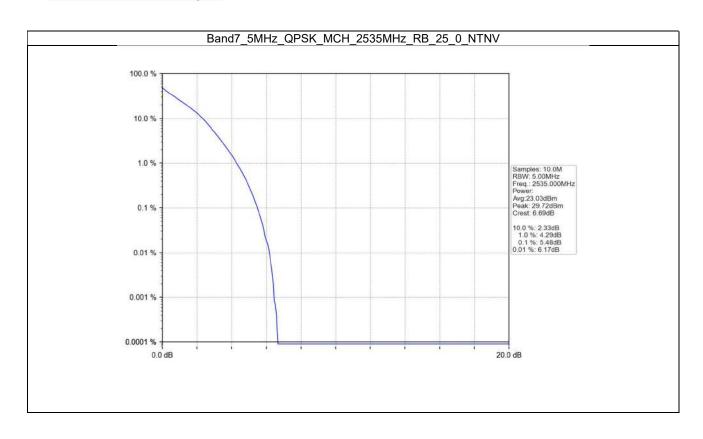
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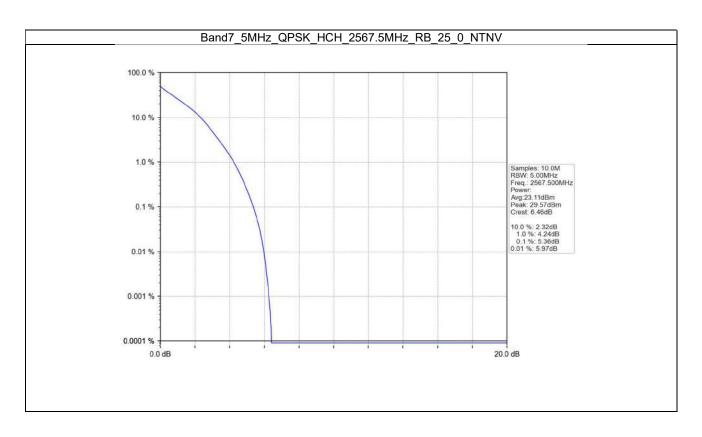
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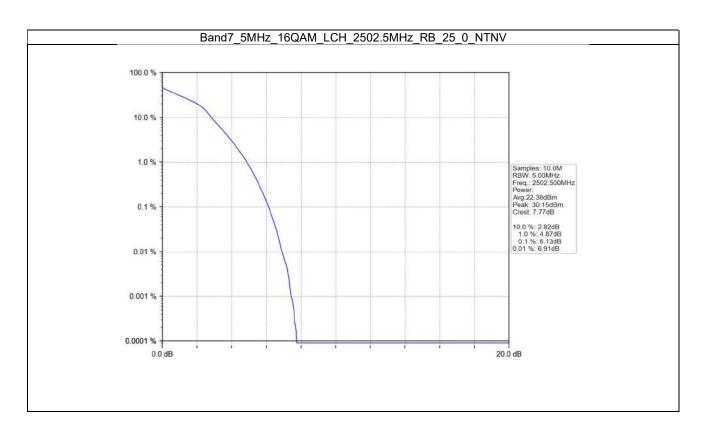
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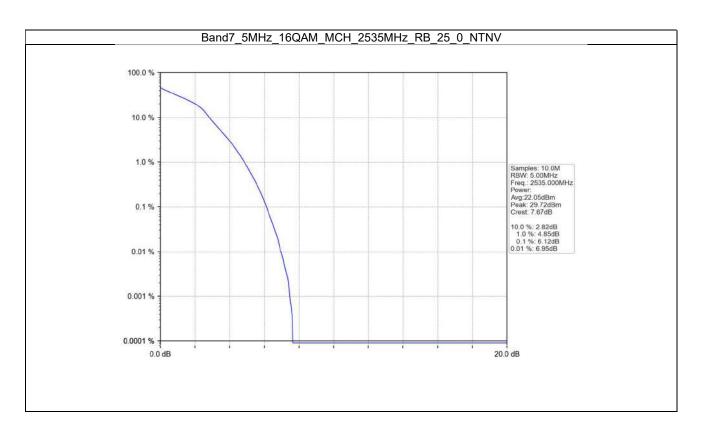
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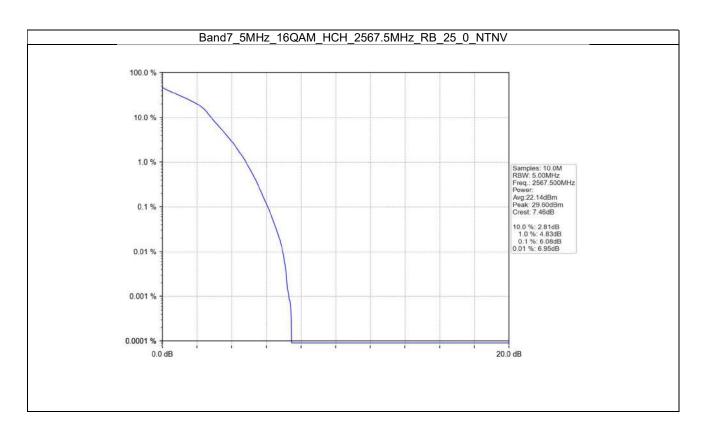
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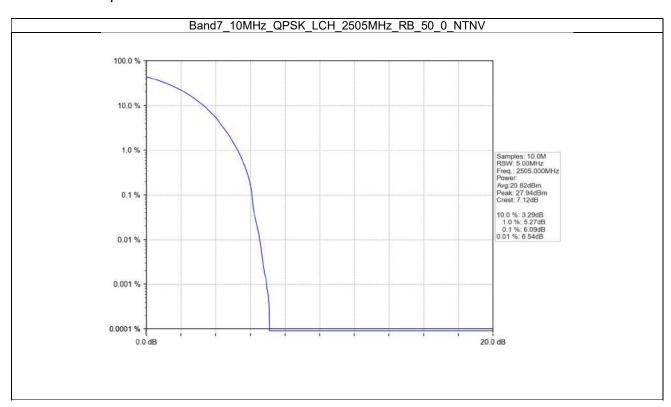
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# 5.2 B7\_10MHz

#### 5.2.1 Test Result

		Ва	nd: 7 / Bandwidtl	n: 10MHz / NTNV		
Modulation	Frequency	RB Allocation		Peak-Average Ratio (dB)		Vordiet
	(MHz)	Size	Offset	Result	Limit	Verdict
	2505	50	0	6.09	<=13	Pass
QPSK	2535	50	0	6.08	<=13	Pass
	2565	50	0	6.10	<=13	Pass
16QAM	2505	50	0	6.76	<=13	Pass
	2535	50	0	6.69	<=13	Pass
	2565	50	0	6.78	<=13	Pass

### 5.2.2 Test Graph





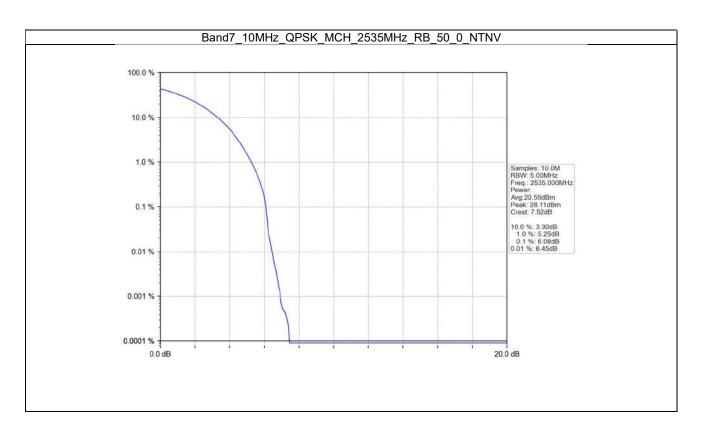
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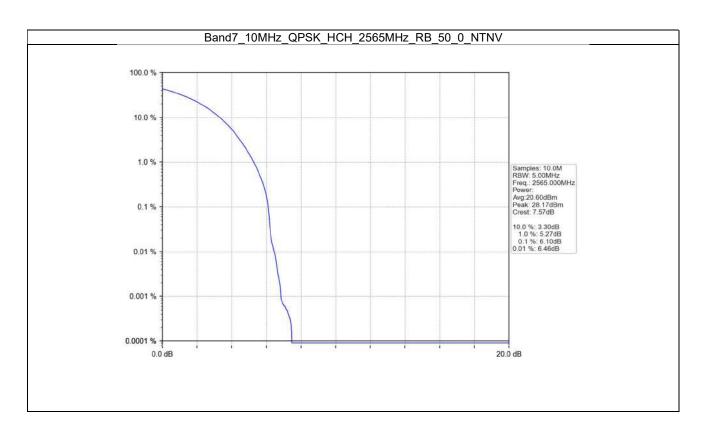
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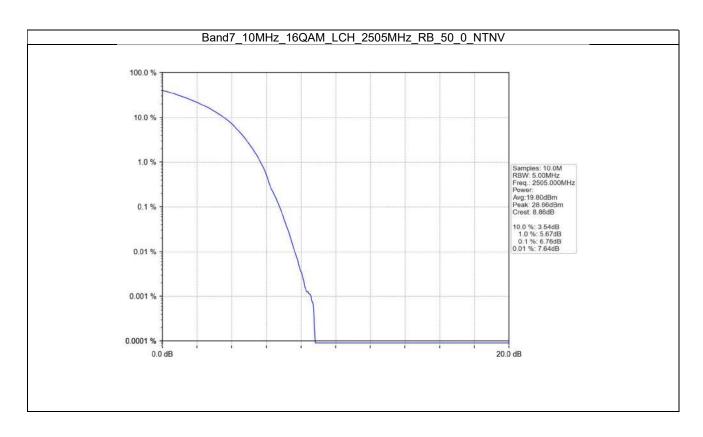
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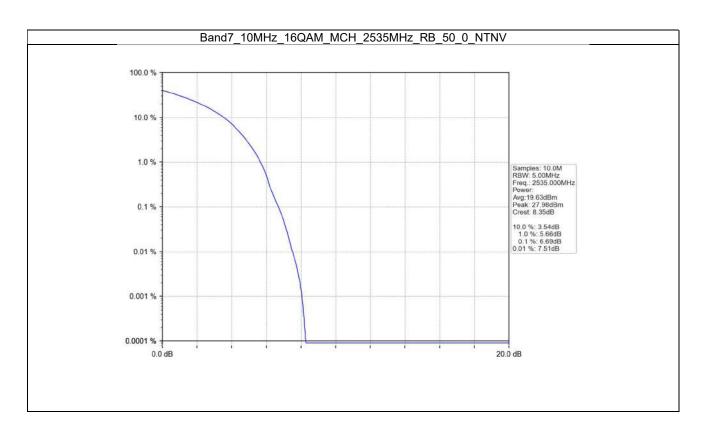
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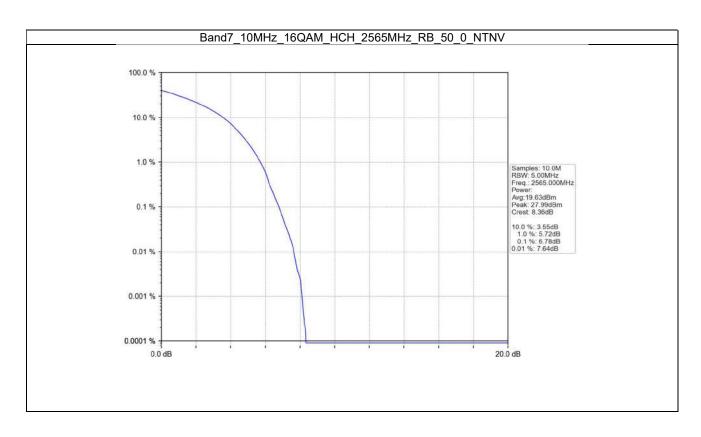
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# 5.3 B7\_15MHz

#### 5.3.1 Test Result

		Ва	nd: 7 / Bandwidtł	n: 15MHz / NTNV		
Modulation	Frequency	RB Allocation		Peak-Average Ratio (dB)		Vordiet
	(MHz)	Size	Offset	Result	Limit	Verdict
	2507.5	75	0	6.75	<=13	Pass
QPSK	2535	75	0	6.69	<=13	Pass
	2562.5	75	0	6.77	<=13	Pass
16QAM	2507.5	75	0	7.29	<=13	Pass
	2535	75	0	7.27	<=13	Pass
	2562.5	75	0	7.25	<=13	Pass



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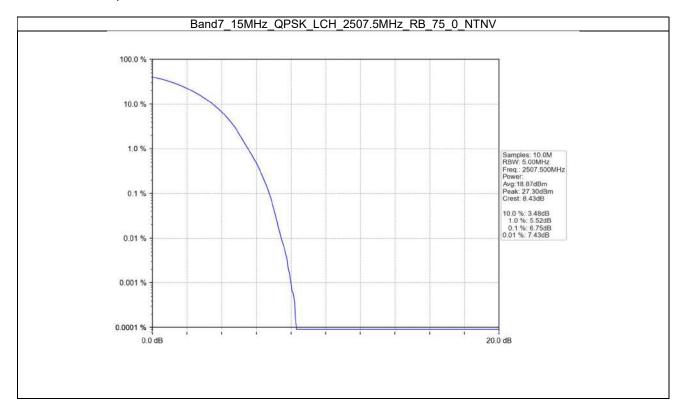
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# 5.3.2 Test Graph





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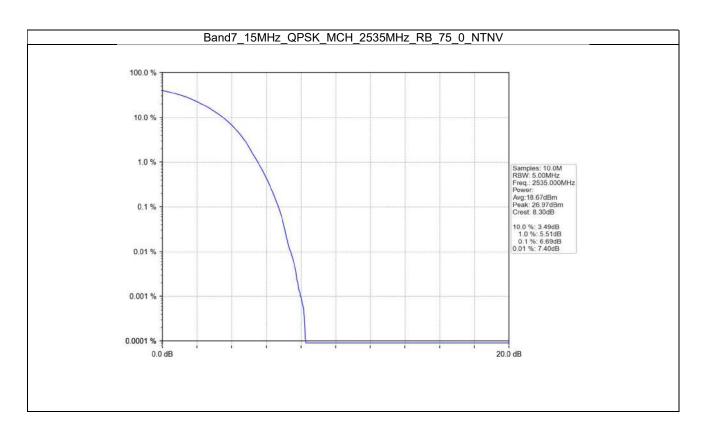
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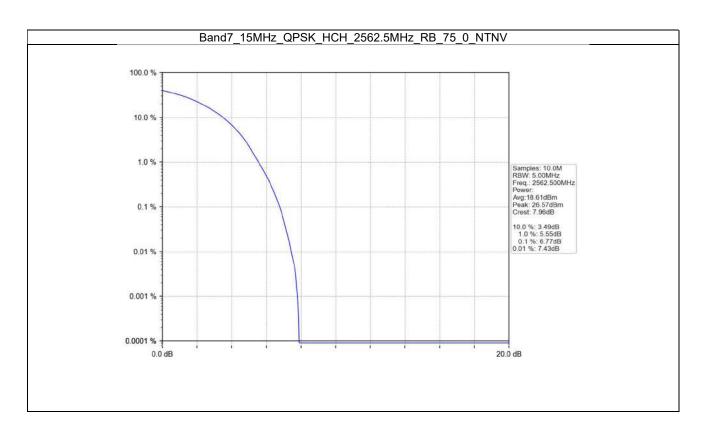
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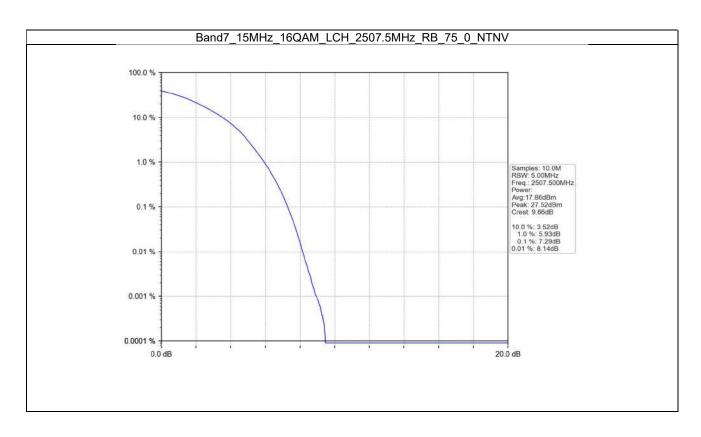
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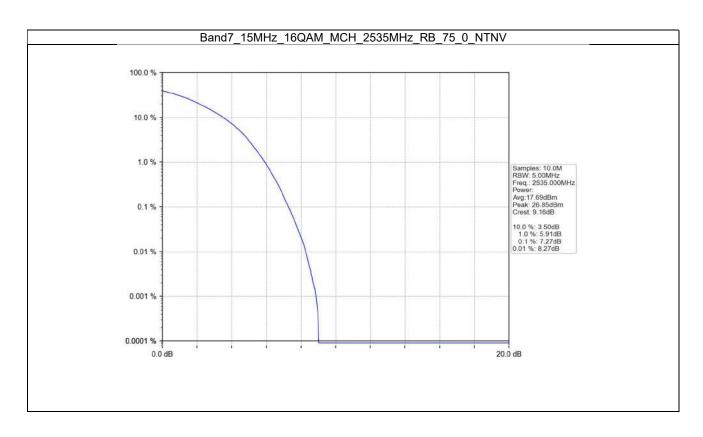
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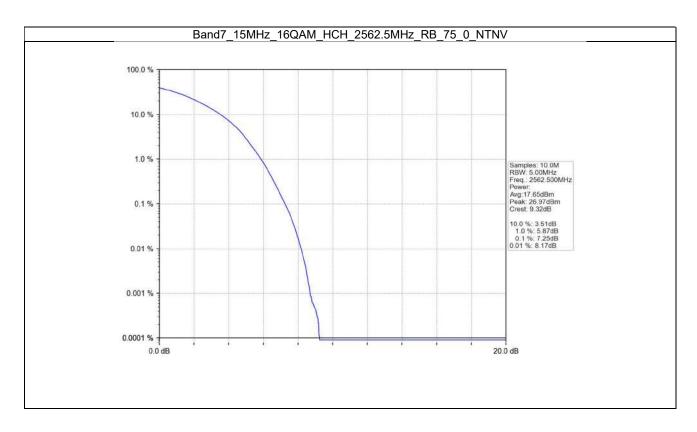
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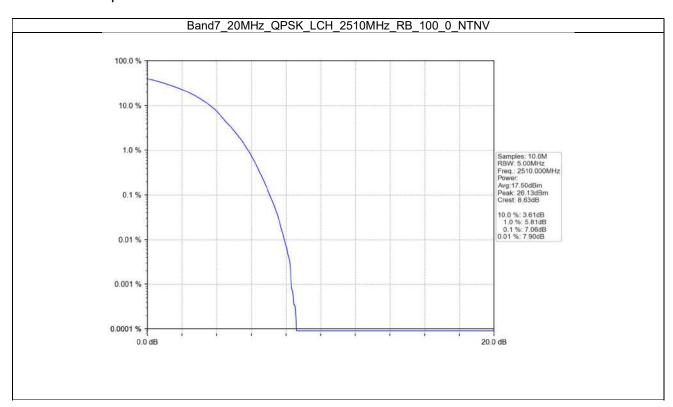
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# 5.4 B7\_20MHz

#### 5.4.1 Test Result

		Ва	ınd: 7 / Bandwidtl	n: 20MHz / NTNV		
Madulation	Frequency	RB Allocation		Peak-Average Ratio (dB)		Vardiat
Modulation	(MHz)	Size	Offset	Result	Limit	Verdict
	2510	100	0	7.06	<=13	Pass
QPSK	2535	100	0	7.20	<=13	Pass
	2560	100	0	7.17	<=13	Pass
16QAM	2510	100	0	7.46	<=13	Pass
	2535	100	0	7.54	<=13	Pass
	2560	100	0	7.56	<=13	Pass

### 5.4.2 Test Graph





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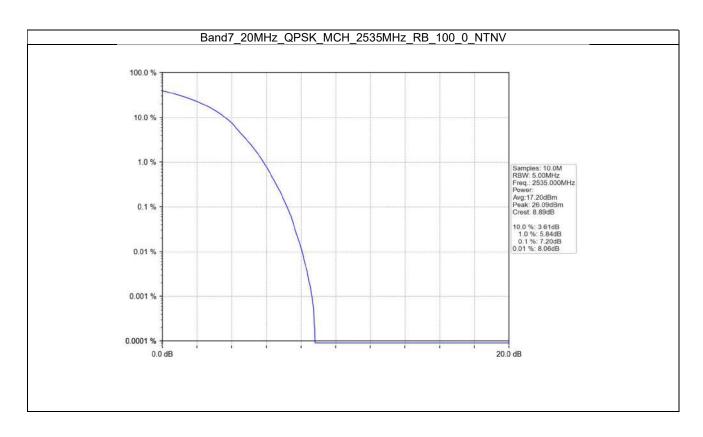
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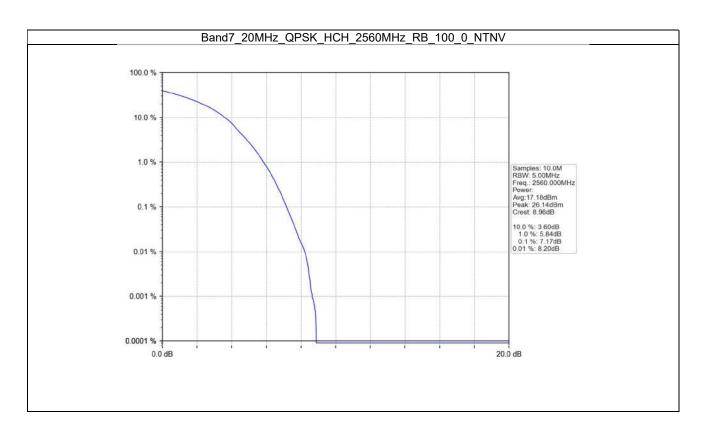
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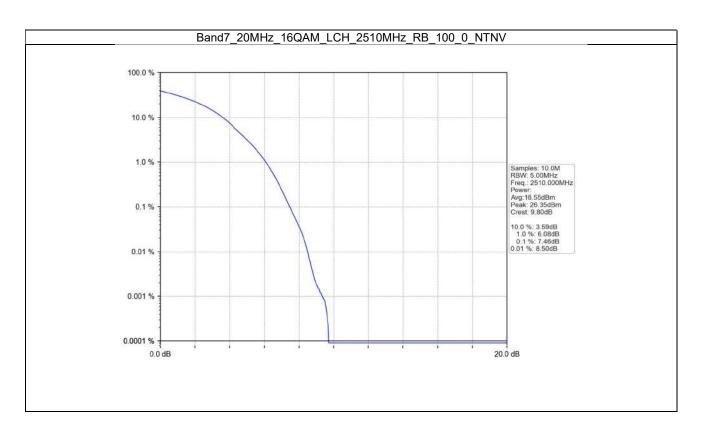
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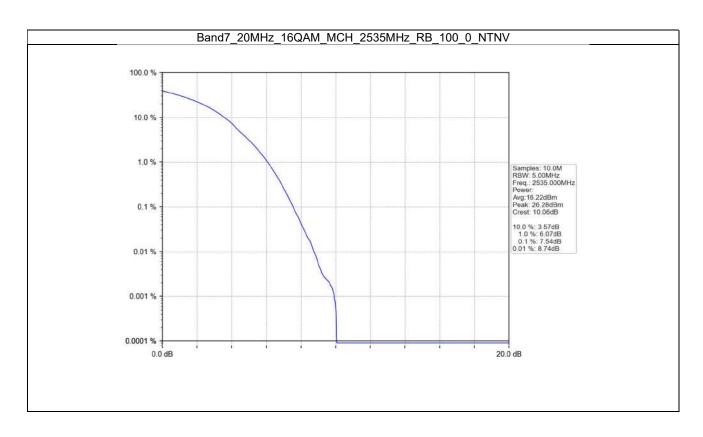
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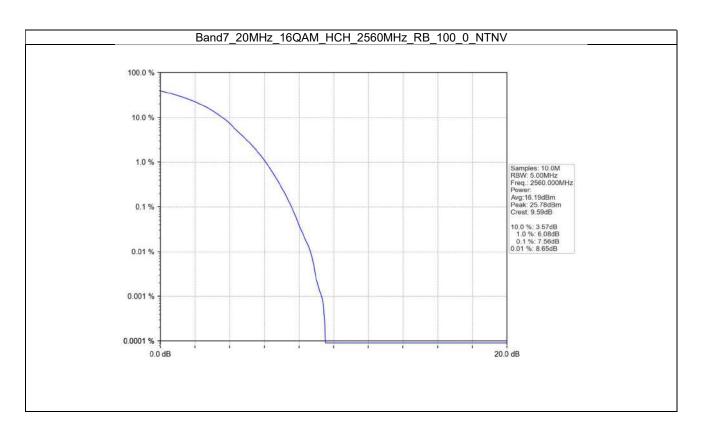
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# 6. Spurious Emission

6.1 B7\_5MHz

#### 6.1.1 Test Result

			Band: 7 / Bandwidth	n: 5MHz / NTNV			
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Vardiet	
		Size	Offset	Result	Limit	Verdict	
	2502.5	1	0	Refer To Test Graph		Pass	
		25	0	Refer To Test Graph		Pass	
QPSK	2535	1	0	Refer To Test Graph		Pass	
QPSK _	2567.5	1	0	Refer To Test Graph		Pass	
			24	Refer To Test Graph		Pass	
		25	0	Refer To Test Gra	aph	Pass	
16QAM	2502.5	2502.5 1 25		0	Refer To Test Graph		Pass
				0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass	
	2567.5	5 1	0	Refer To Test Graph		Pass	
			24	Refer To Test Graph		Pass	
		25	0	Refer To Test Graph		Pass	

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k \* (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.



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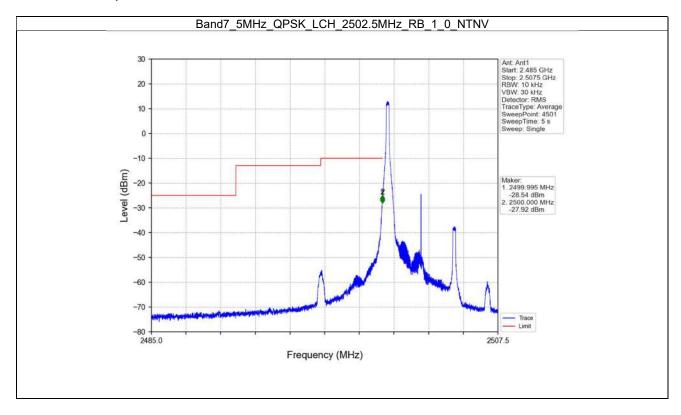
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## 6.1.2 Test Graph





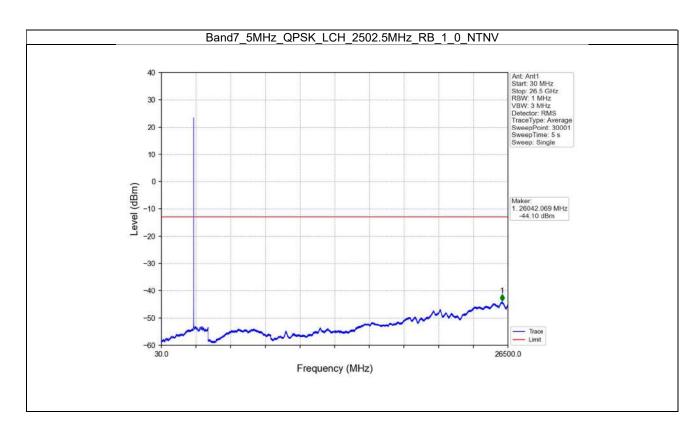
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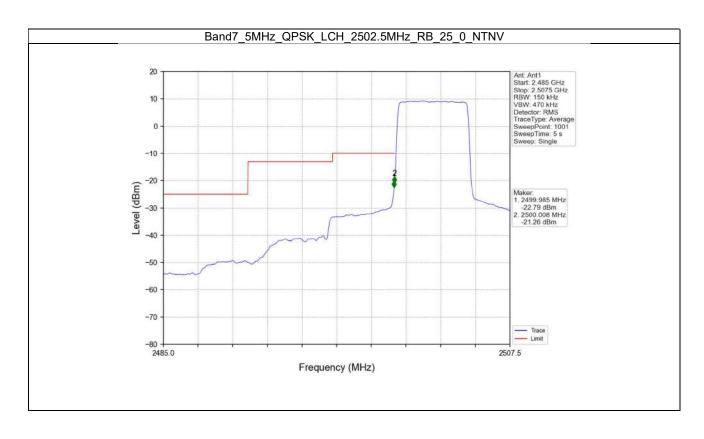
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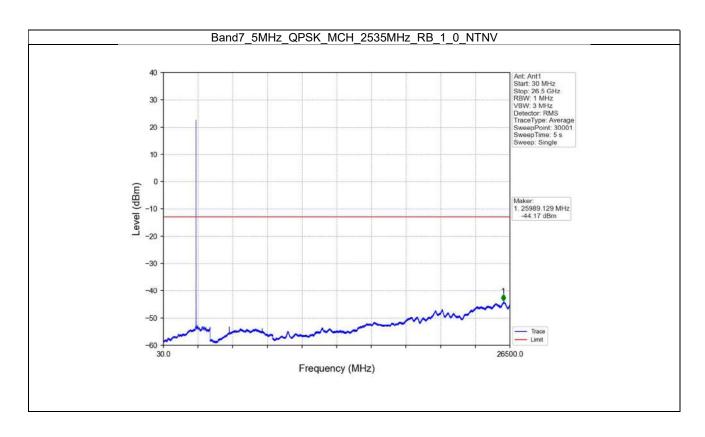
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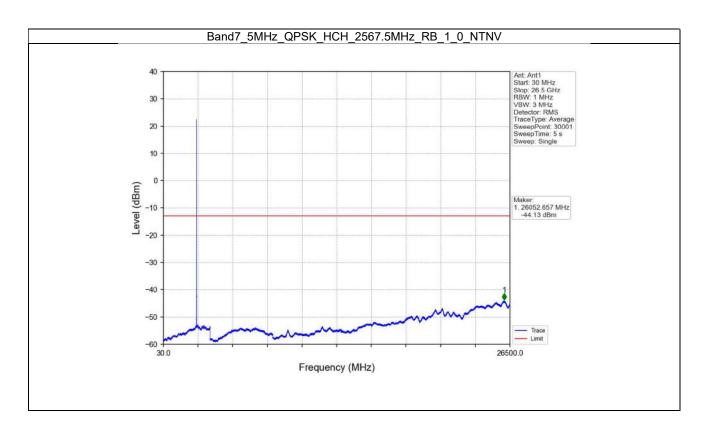
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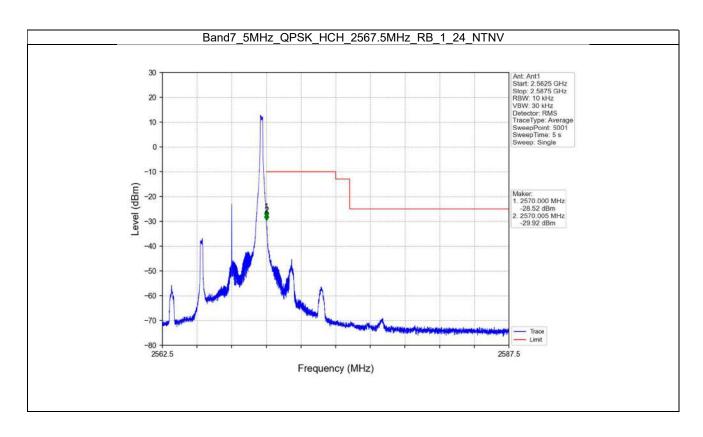
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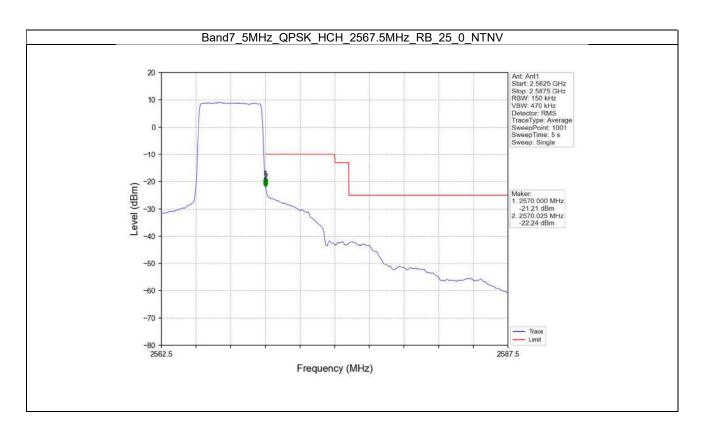
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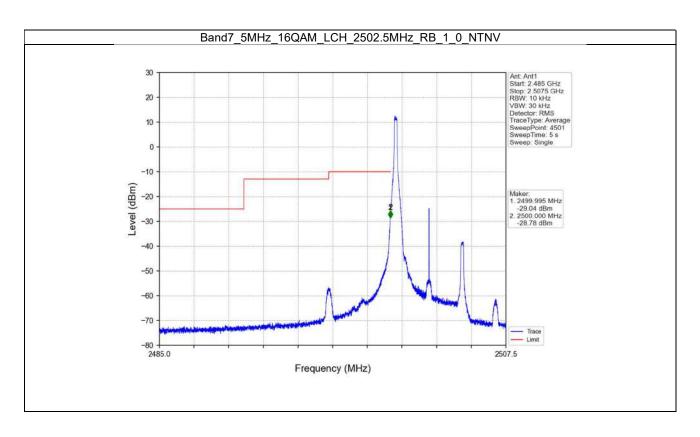
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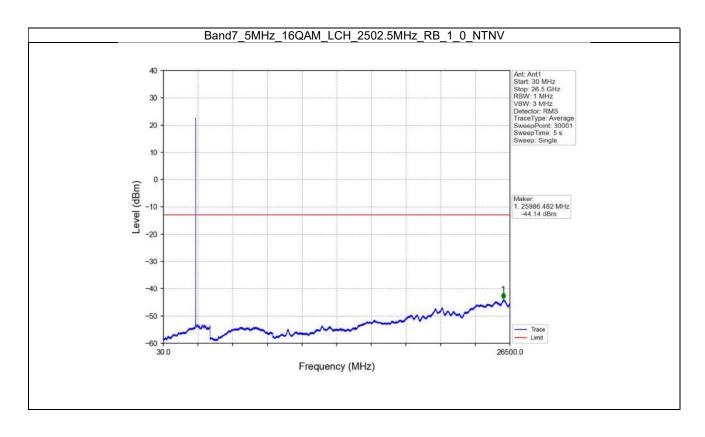
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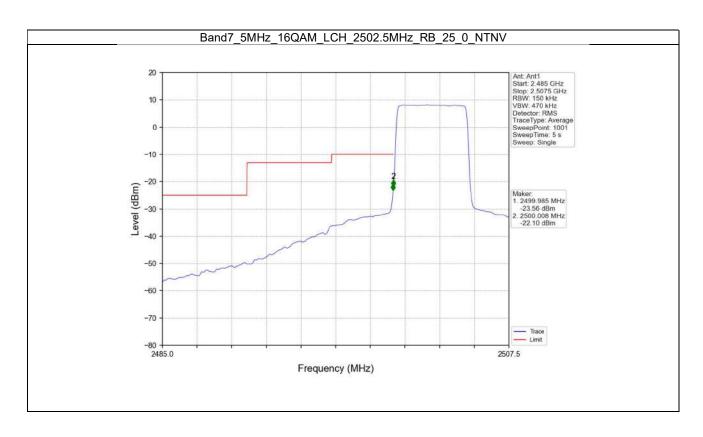
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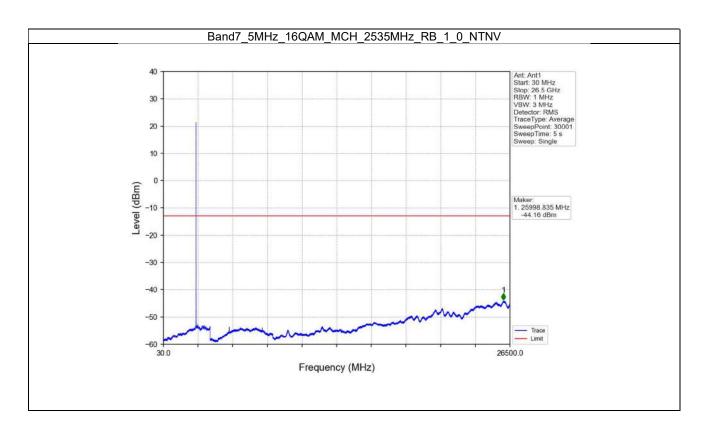
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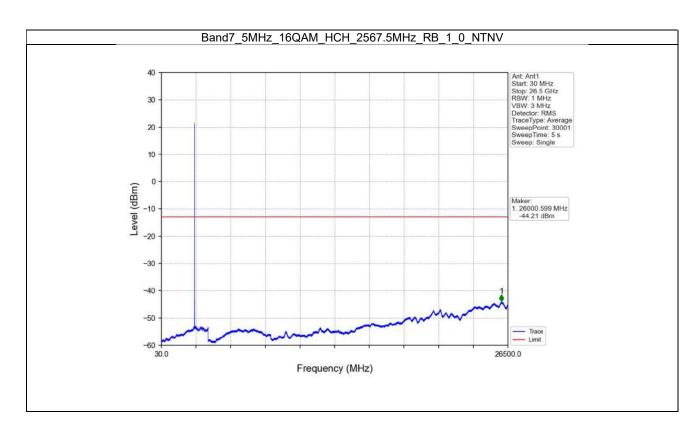
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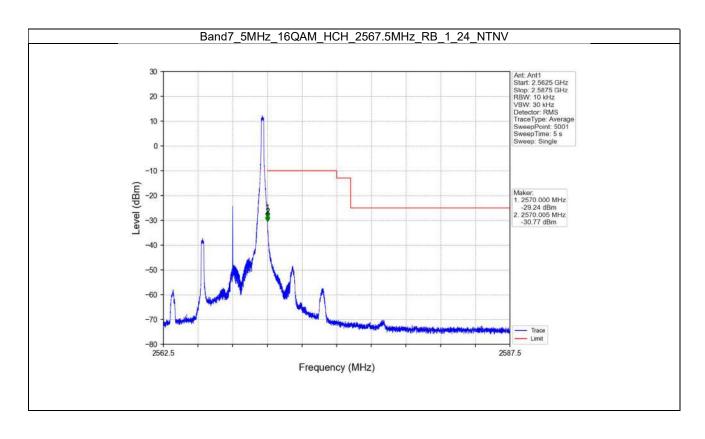
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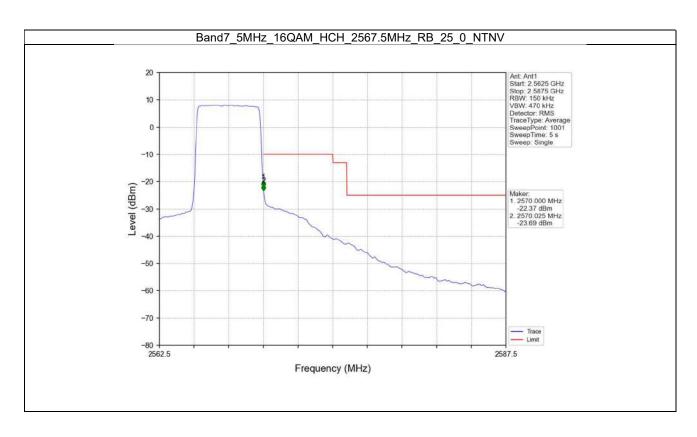
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# 6.2 B7\_10MHz

#### 6.2.1 Test Result

		В	and: 7 / Bandwidtl	n: 10MHz / NTNV		
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	verdict
QPSK -	2505	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2565	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM -	2505	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2565	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass



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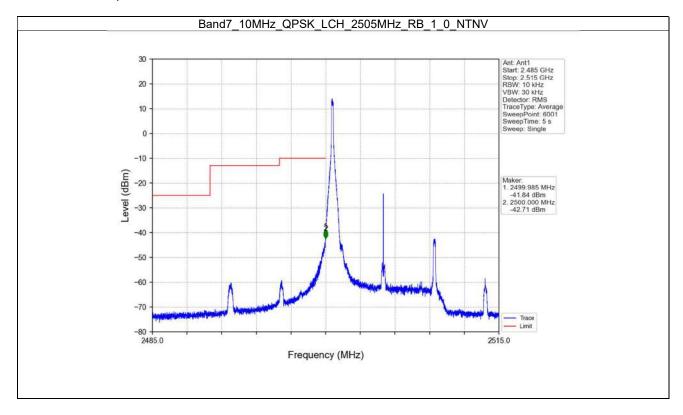
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#### 6.2.2 Test Graph





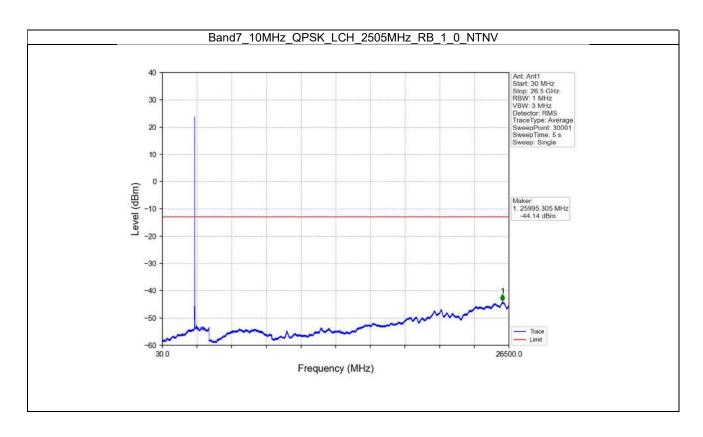
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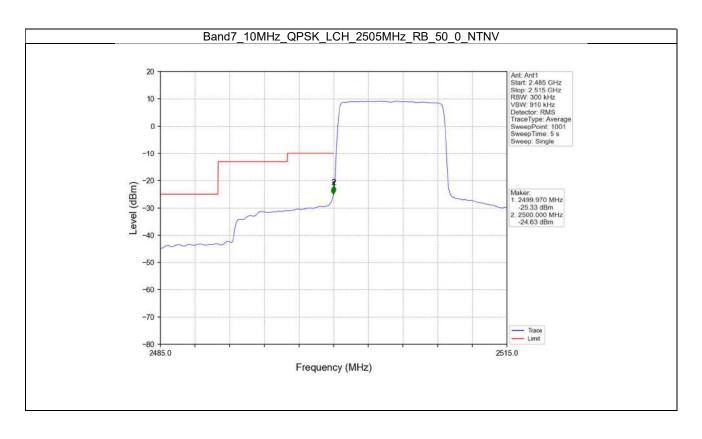
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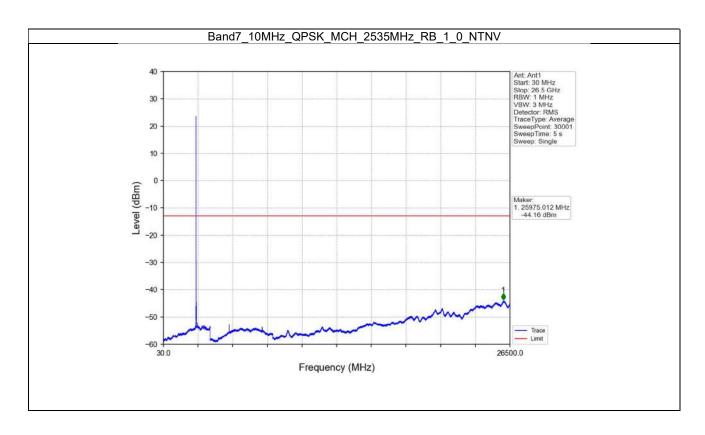
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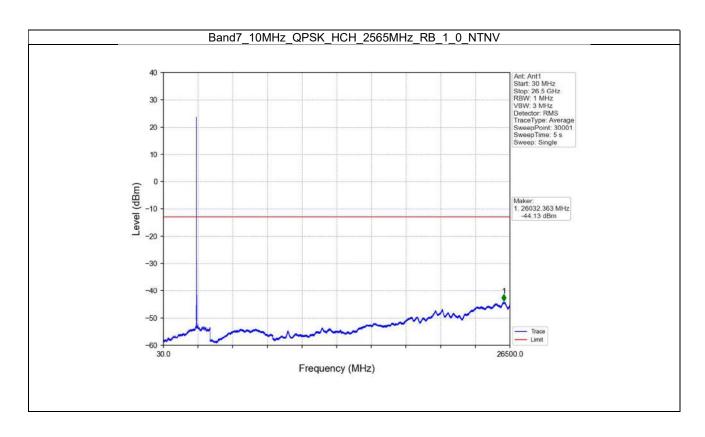
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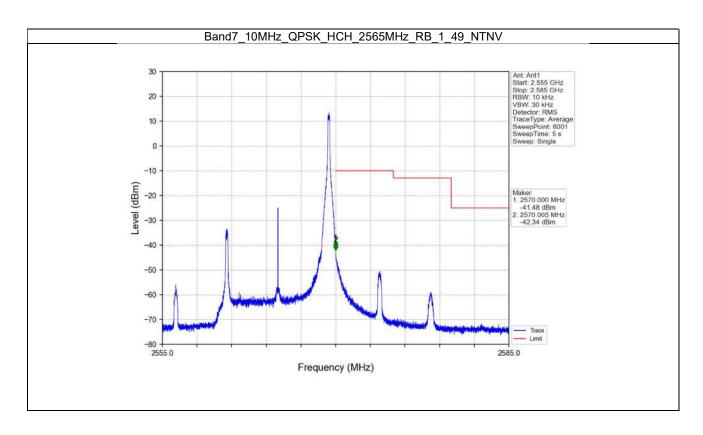
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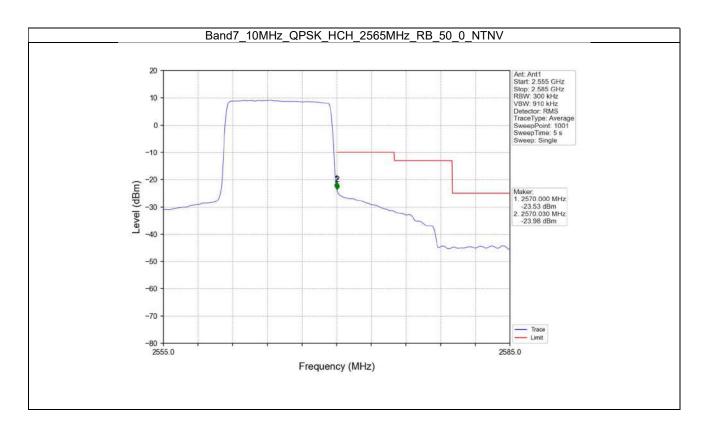
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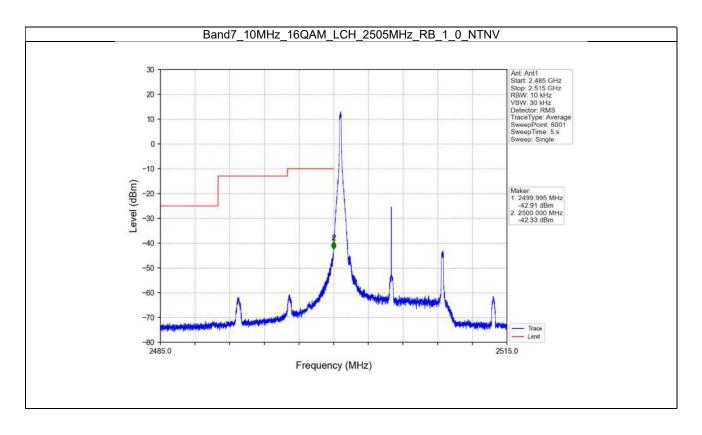
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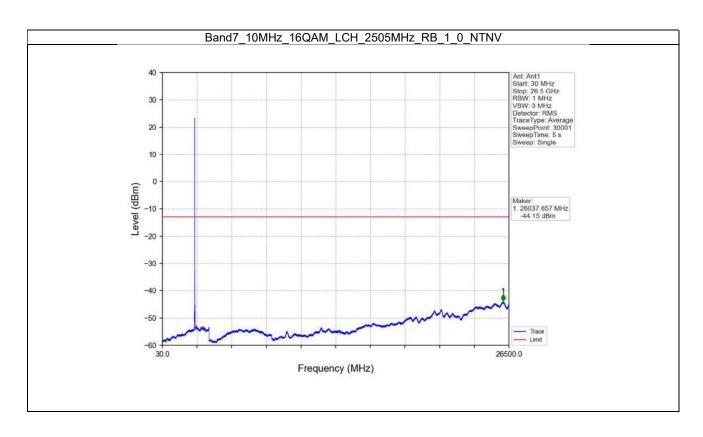
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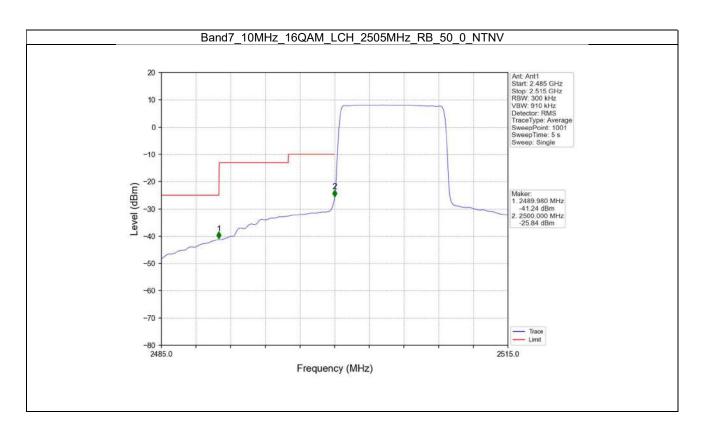
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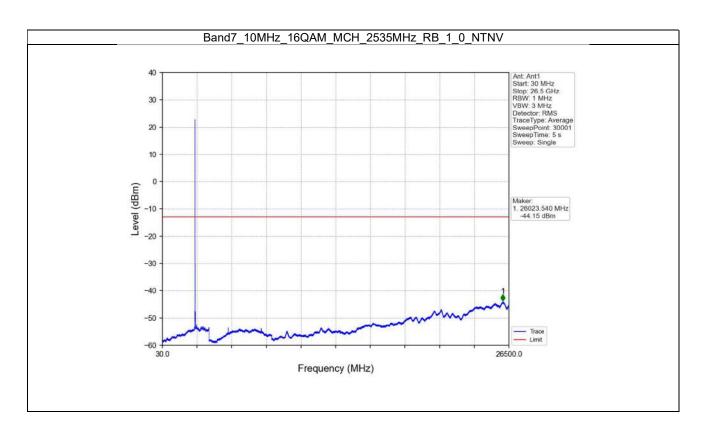
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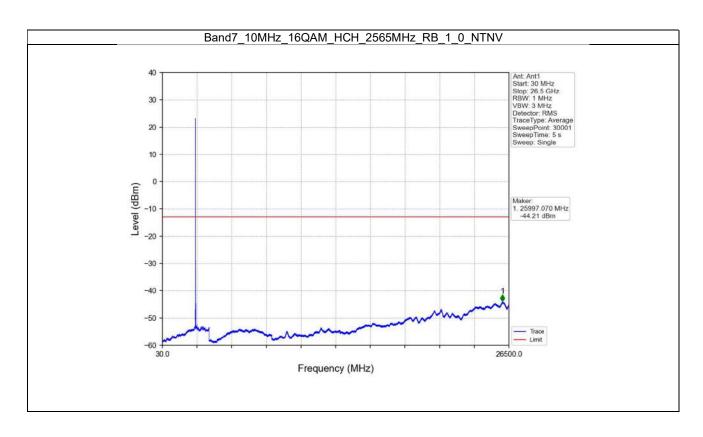
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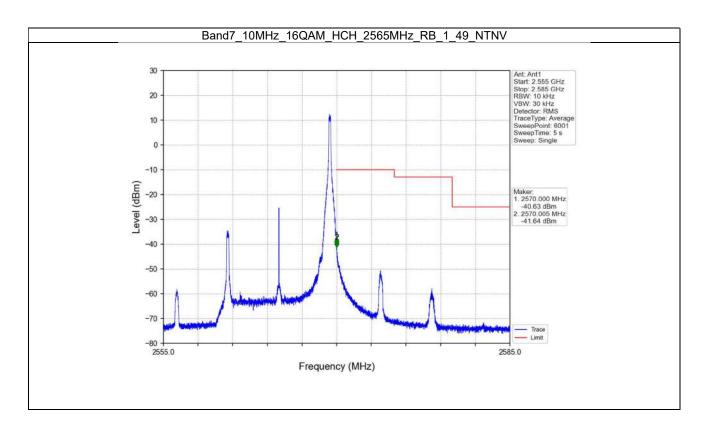
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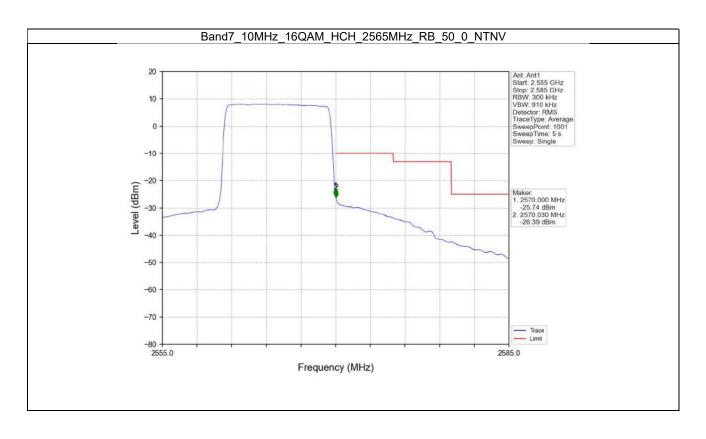
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# 6.3 B7\_15MHz

#### 6.3.1 Test Result

		E	Band: 7 / Bandwidth	ı: 15MHz / NTNV		
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	verdict
QPSK -	2507.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2562.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
16QAM	2507.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2562.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass



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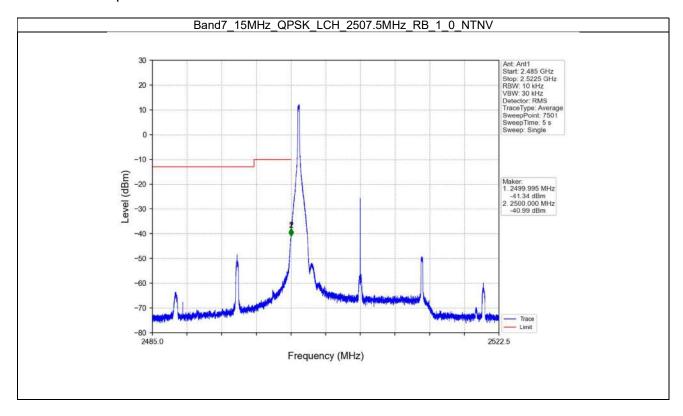
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#### 6.3.2 Test Graph





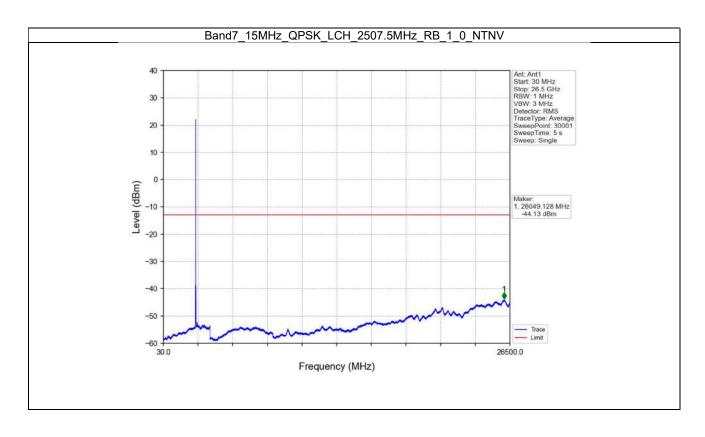
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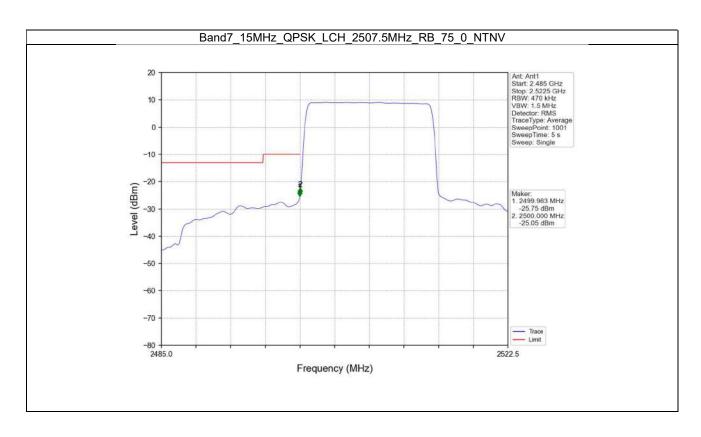
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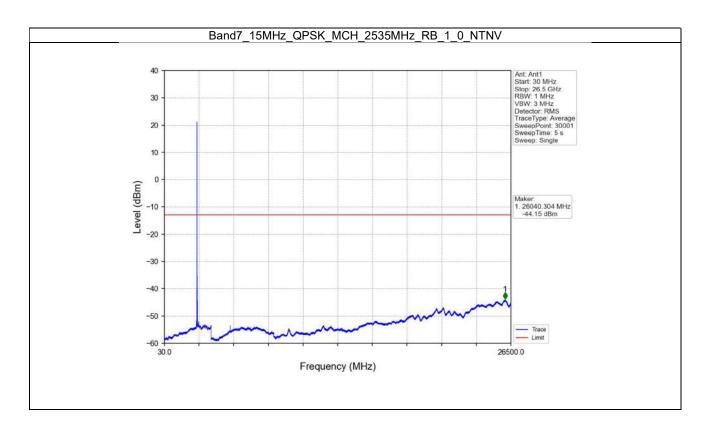
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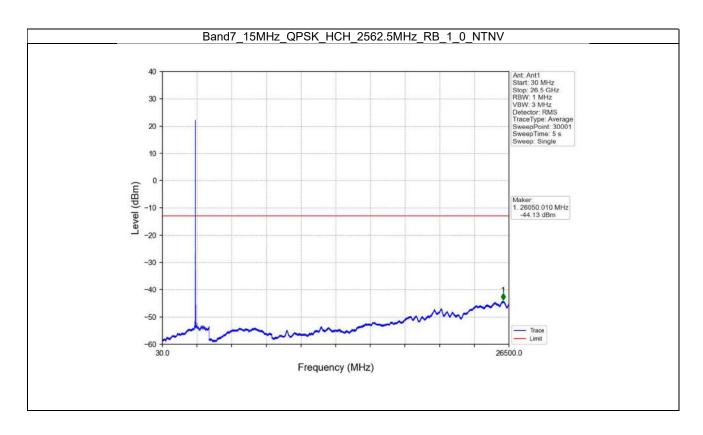
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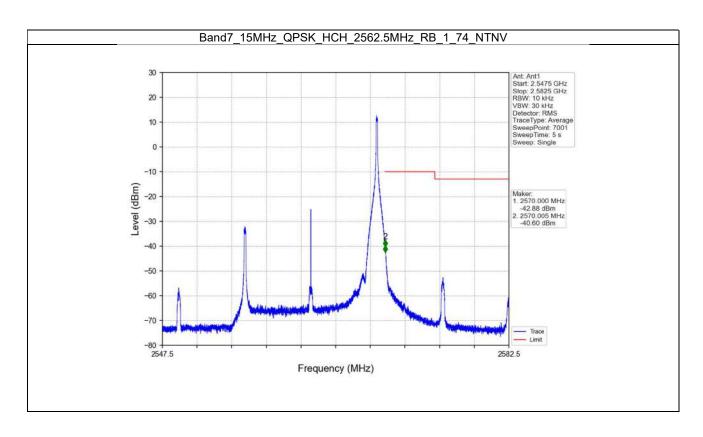
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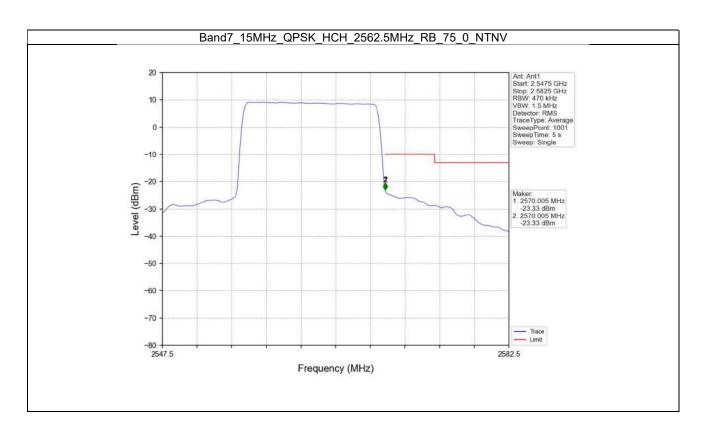
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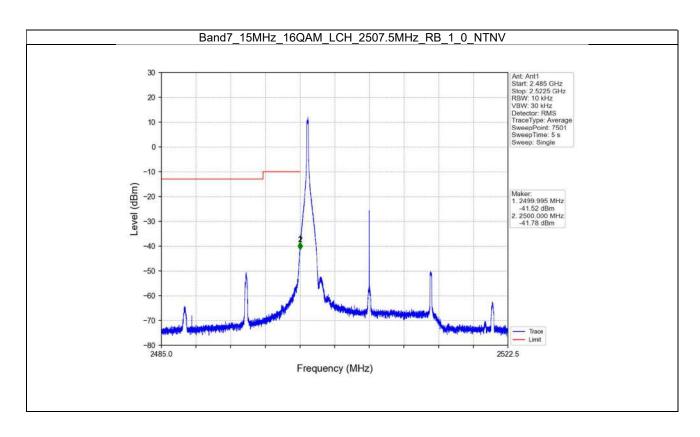
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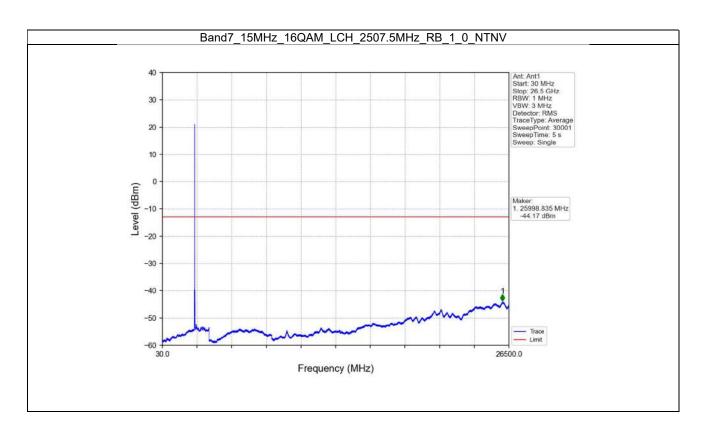
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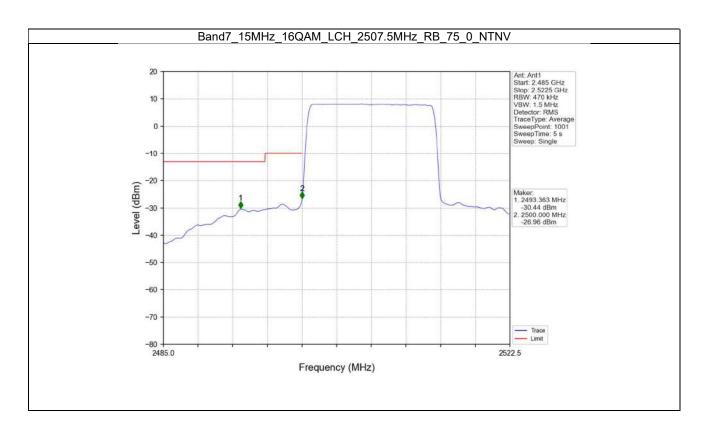
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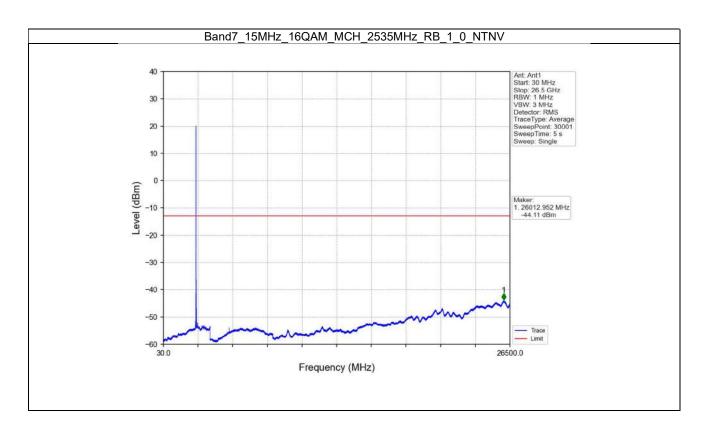
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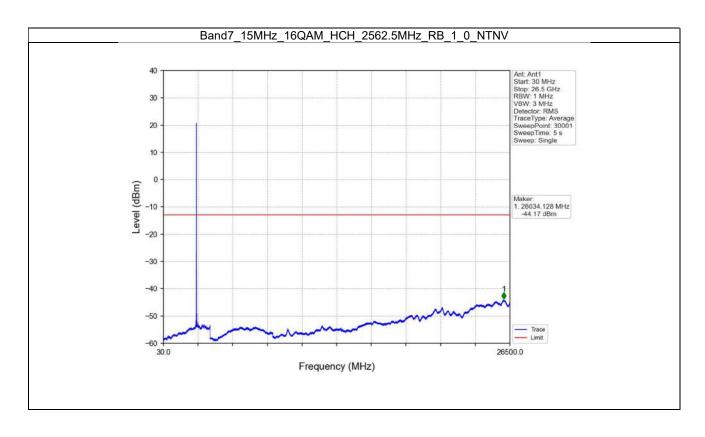
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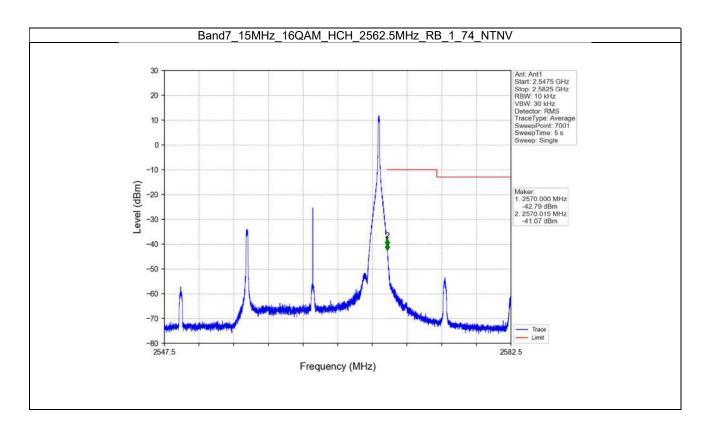
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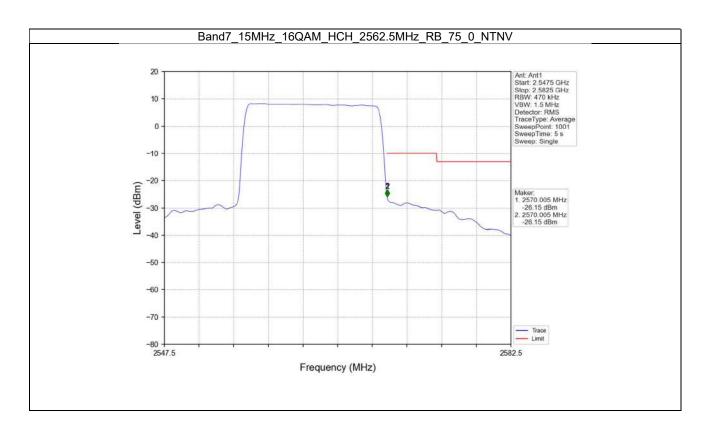
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# 6.4 B7\_20MHz

#### 6.4.1 Test Result

		В	and: 7 / Bandwidth	: 20MHz / NTNV		
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Vardiet
		Size	Offset	Result	Limit	Verdict
QPSK -	2510	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2560	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
16QAM -	2510	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	2535	1	0	Refer To Test Graph		Pass
	2560	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass



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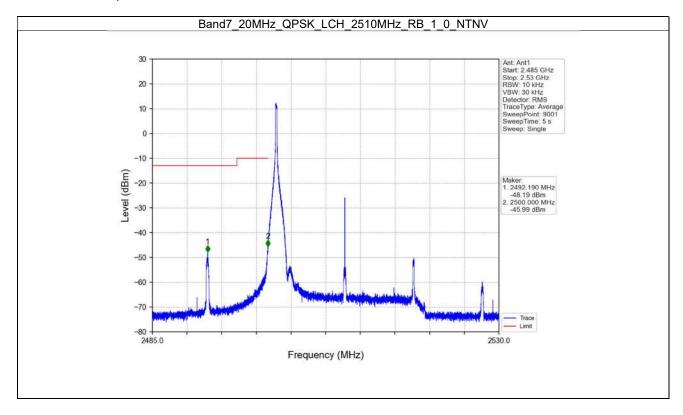
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#### 6.4.2 Test Graph





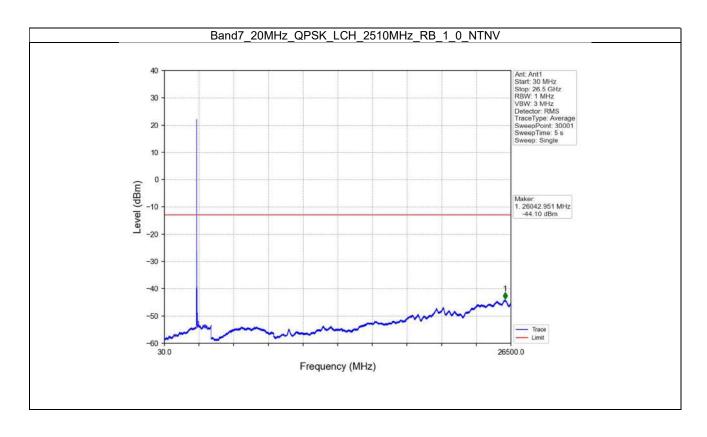
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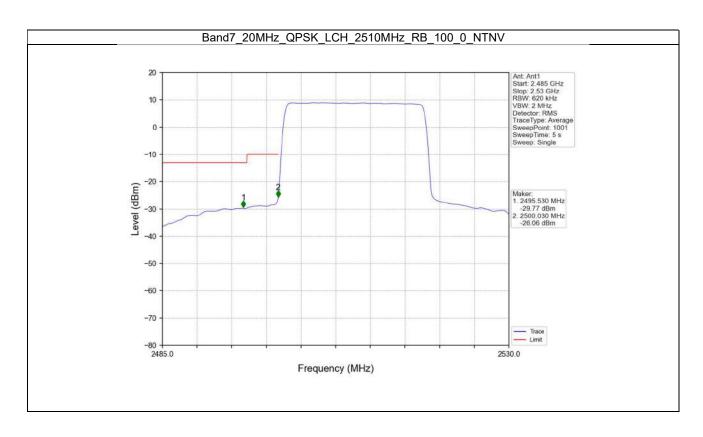
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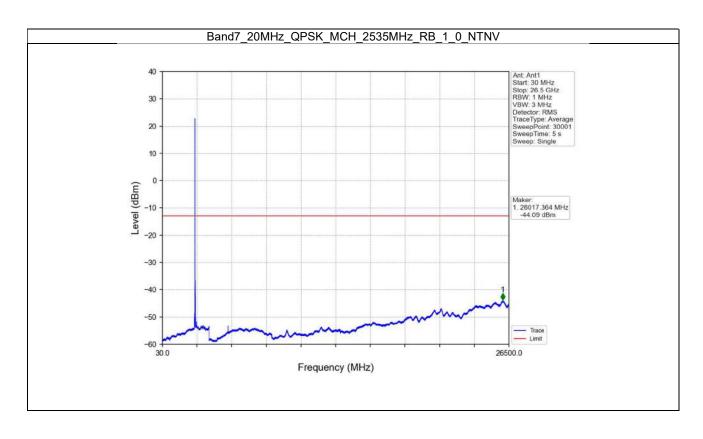
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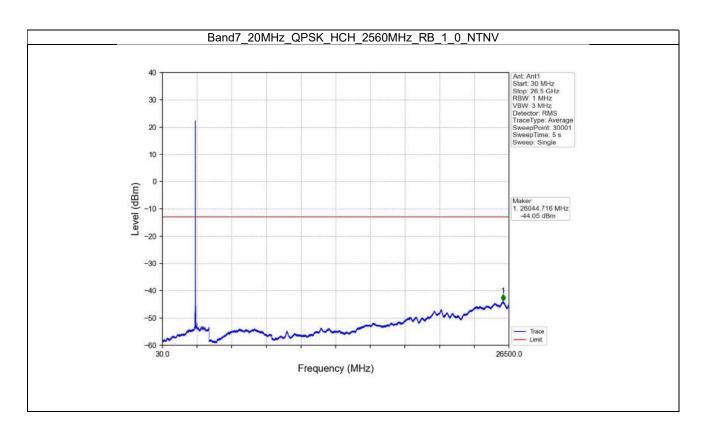
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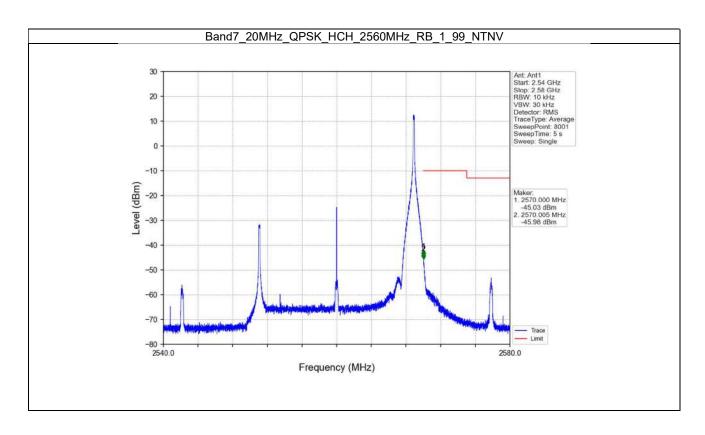
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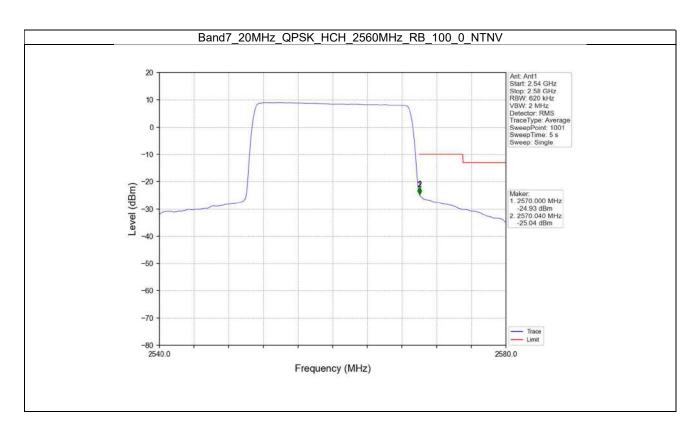
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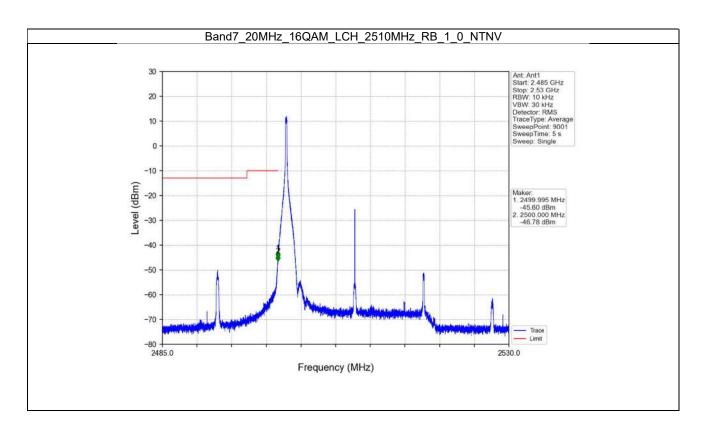
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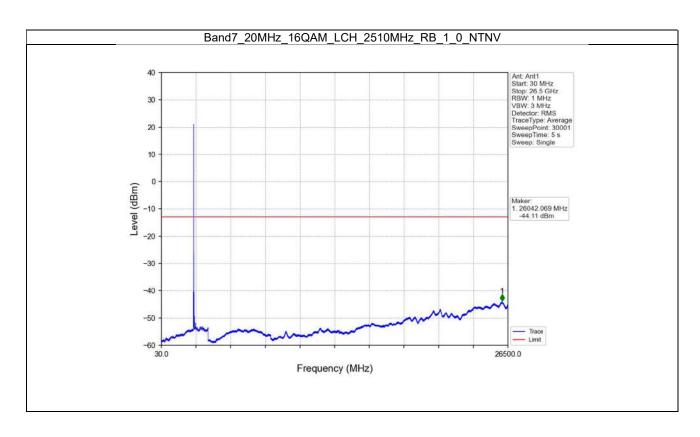
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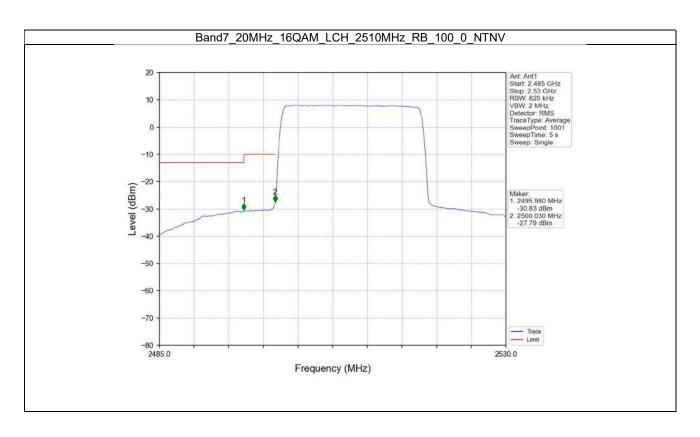
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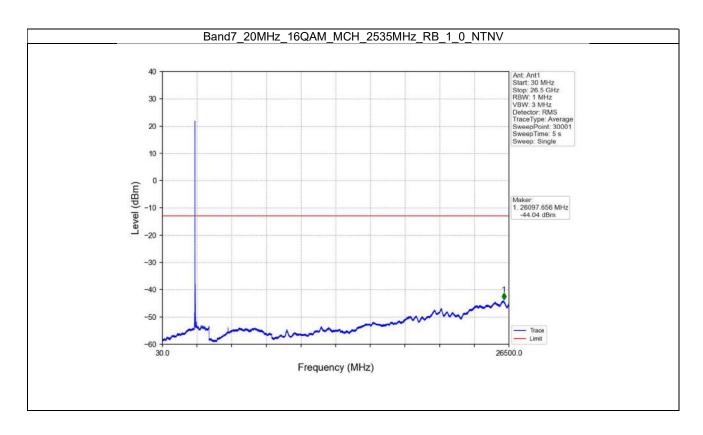
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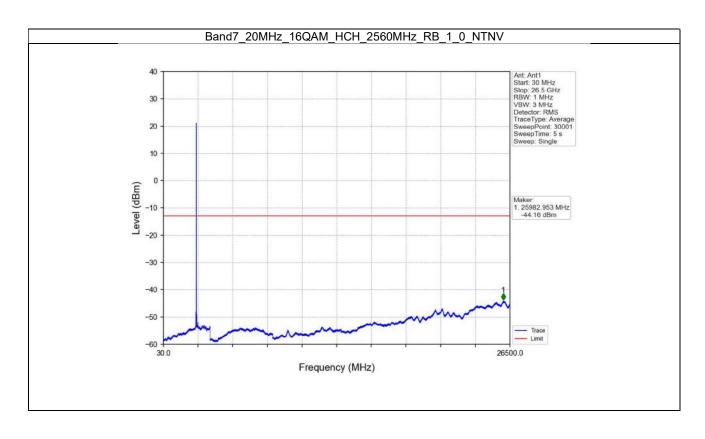
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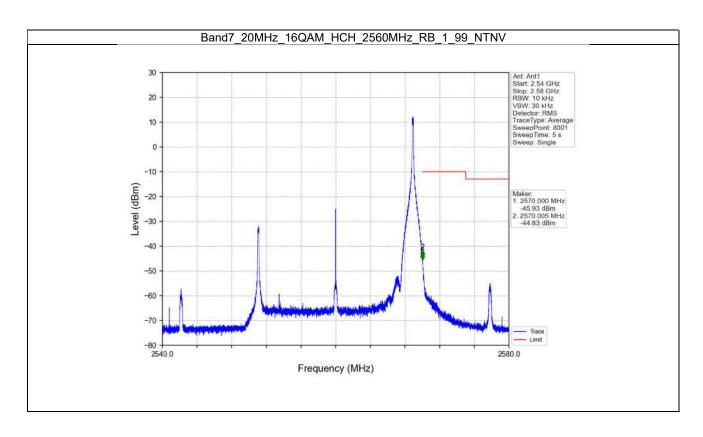
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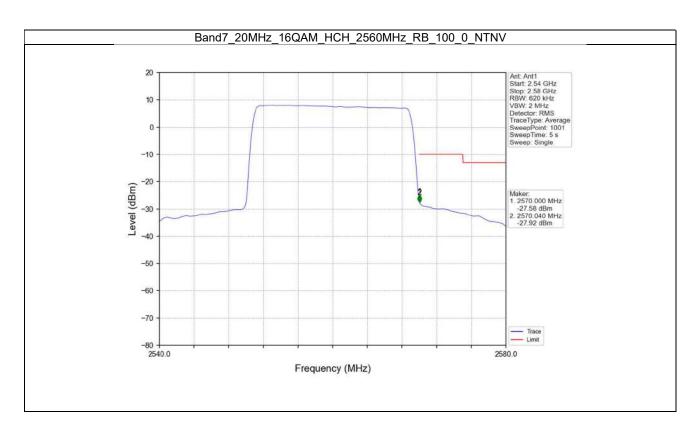
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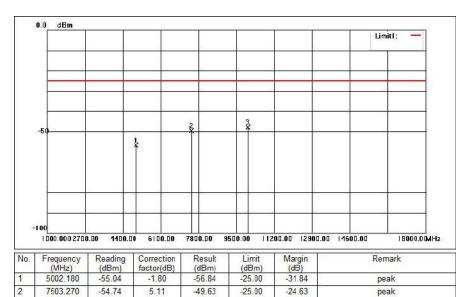
# 7. Field Strength of Spurious Radiation

10004.360

Up Antenna

### LTE BAND 7-20MHz-Low channel

Polarization: H



-25.00

-22.75

peak



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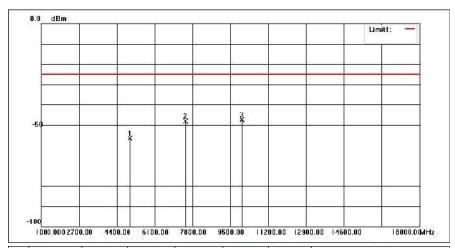
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#### Polarization: V



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
1	5002.180	-54.90	-1.80	-56.70	-25.00	-31.70	peak	
2	7503.270	-53.17	5.11	-48.06	-25.00	-23.06	peak	
3	10004.360	-56.13	8.69	-47.44	-25.00	-22.44	peak	



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10140.360

-56.60

8.60

-48.00

-25.00

-23.00

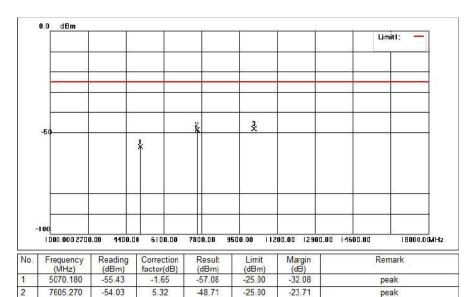
peak

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#### LTE BAND 7-20MHz-Middle channel

Polarization: H





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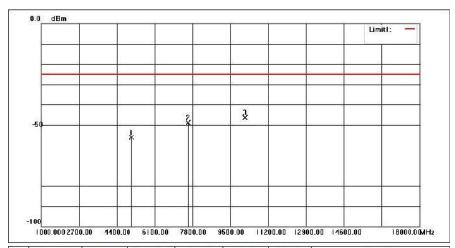
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#### Polarization: V



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
1	5070.180	-54.54	-1.65	-56.19	-25.00	-31.19	peak	
2	7605.270	-54.08	5.32	-48.76	-25.00	-23.76	peak	
3	10140.360	-55.07	8.60	-46.47	-25.00	-21.47	peak	



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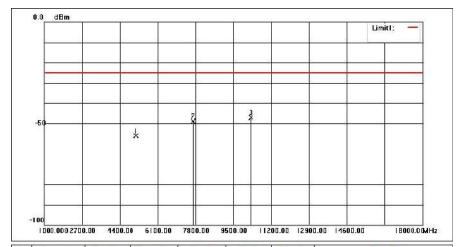
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### LTE BAND 7-20MHz-High channel

Polarization: H



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5137.820	-54.51	-1.51	-56.02	-25.00	-31.02	peak
2	7706.730	-54.14	5.22	-48.92	-25.00	-23.92	peak
3	10275.640	-55.57	8.52	-47.05	-25.00	-22.05	peak



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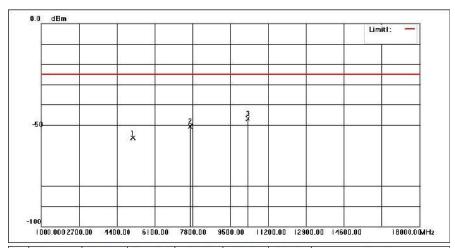
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#### Polarization: V



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
1	5137.820	-54.74	-1.51	-56.25	-25.00	-31.25	peak	
2	7706.730	-55.77	5.22	-50.55	-25.00	-25.55	peak	
3	10275.640	-55.27	8.52	-46.75	-25.00	-21.75	peak	



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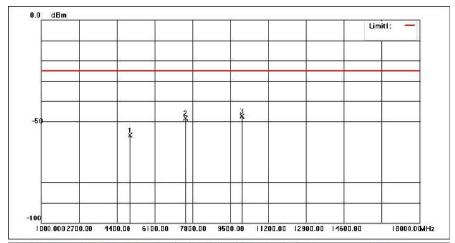


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#### Down Antenna

#### LTE BAND 7-20MHz-Low channel

Polarization: H



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5002.180	-55.11	-1.80	-56.91	-25.00	-31.91	peak
2	7503.270	-53.59	5.11	-48.48	-25.00	-23.48	peak
3	10004.360	-55.98	8.69	-47.29	-25.00	-22.29	peak



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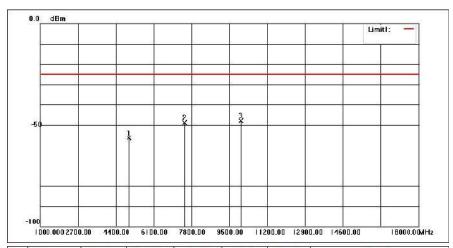
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#### Polarization: V



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5002.180	-54.65	-1.80	-56.45	-25.00	-31.45	peak
2	7503.270	-54.03	5.11	-48.92	-25.00	-23.92	peak
3	10004.360	-56.61	8.69	-47.92	-25.00	-22.92	peak



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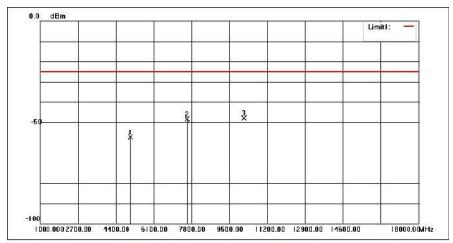
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#### LTE BAND 7-20MHz-Middle channel

Polarization: H



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5070.180	-55.75	-1.65	-57.40	-25.00	-32.40	peak
2	7605.270	-53.70	5.32	-48.38	-25.00	-23.38	peak
3	10140.360	-56.42	8.60	-47.82	-25.00	-22.82	peak



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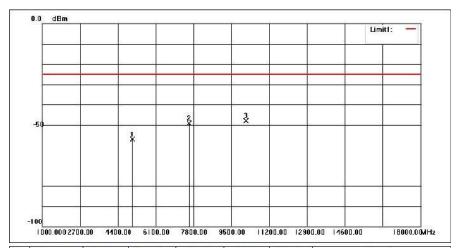
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#### Polarization: V



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	5070.180	-55.37	-1.65	-57.02	-25.00	-32.02	peak
2	7605.270	-54.54	5.32	-49.22	-25.00	-24.22	peak
3	10140.360	-56.38	8.60	-47.78	-25.00	-22.78	peak



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Test Report Form Version: Rev01

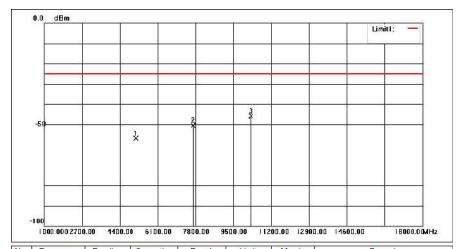
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### LTE BAND 7-20MHz-High channel

Polarization: H



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
1	5137.820	-55.34	-1.51	-56.85	-25.00	-31.85	peak	
2	7706.730	-55.70	5.22	-50.48	-25.00	-25.48	peak	
3	10275.640	-54.47	8.52	-45.95	-25.00	-20.95	peak	



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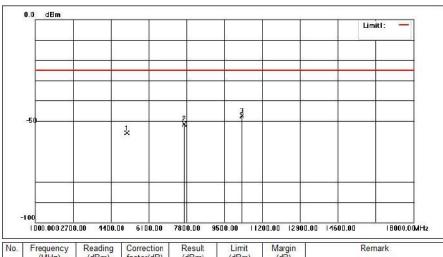
中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300

t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com



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#### Polarization: V



No.	Frequency (MHz)	Reading (dBm)	Correction factor(dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark	
1	5137.820	-54.34	-1.51	-55.85	-25.00	-30.85	peak	
2	7706.730	-56.48	5.22	-51.26	-25.00	-26.26	peak	
3	10275.640	-56.01	8.52	-47.49	-25.00	-22.49	peak	

Remark1:According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

Remark2:The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.



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t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn

中国・江苏・昆山市留学生创业园伟业路10号 邮编 215300