



Shenzhen CTL Testing Technology Co., Ltd.

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Appendix J

Product Name: Siyata SD7

Model: SD7



1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

Test Band: 14 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	24.31	24.02	23.51	-2.52	-0.37	21.79	21.50	20.99	34.77	PASS
		13	24.01	23.55	23.24	-2.52	-0.37	21.49	21.03	20.72	34.77	PASS
		24	23.65	23.22	23.06	-2.52	-0.37	21.13	20.70	20.54	34.77	PASS
	12	0	23.12	22.81	22.42	-2.52	-0.37	20.60	20.29	19.90	34.77	PASS
		6	23.03	22.65	22.30	-2.52	-0.37	20.51	20.13	19.78	34.77	PASS
		13	22.83	22.41	22.16	-2.52	-0.37	20.31	19.89	19.64	34.77	PASS
16QAM	25	0	22.98	22.61	22.31	-2.52	-0.37	20.46	20.09	19.79	34.77	PASS
			23.30	23.14	22.42	-2.52	-0.37	20.78	20.62	19.90	34.77	PASS
			23.08	22.91	22.20	-2.52	-0.37	20.56	20.39	19.68	34.77	PASS
	1	13	23.08	22.91	22.20	-2.52	-0.37	20.56	20.39	19.68	34.77	PASS
		24	22.71	22.56	21.96	-2.52	-0.37	20.19	20.04	19.44	34.77	PASS
		0	22.11	21.89	21.54	-2.52	-0.37	19.59	19.37	19.02	34.77	PASS
	12	6	22.02	21.74	21.40	-2.52	-0.37	19.50	19.22	18.88	34.77	PASS
		13	21.86	21.54	21.26	-2.52	-0.37	19.34	19.02	18.74	34.77	PASS
		25	22.04	21.71	21.42	-2.52	-0.37	19.52	19.19	18.90	34.77	PASS

Note:
 1) dBd = dBi - 2.15
 2) EIRP = Conducted output power + Antenna gain (dBi)
 3) ERP = Conducted output power + Antenna gain (dBd)

Test Band: 14 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	/	24.30	/	-2.52	-0.37	/	21.78	/	34.77	PASS
		25	/	23.58	/	-2.52	-0.37	/	21.06	/	34.77	PASS
		49	/	23.08	/	-2.52	-0.37	/	20.56	/	34.77	PASS
	25	0	/	23.06	/	-2.52	-0.37	/	20.54	/	34.77	PASS
		13	/	22.71	/	-2.52	-0.37	/	20.19	/	34.77	PASS
		25	/	22.38	/	-2.52	-0.37	/	19.86	/	34.77	PASS
16QAM	50	0	/	22.77	/	-2.52	-0.37	/	20.25	/	34.77	PASS
			/	23.37	/	-2.52	-0.37	/	20.85	/	34.77	PASS
			/	22.85	/	-2.52	-0.37	/	20.33	/	34.77	PASS
	1	25	/	22.85	/	-2.52	-0.37	/	20.33	/	34.77	PASS
		49	/	22.32	/	-2.52	-0.37	/	19.80	/	34.77	PASS
		0	/	22.07	/	-2.52	-0.37	/	19.55	/	34.77	PASS
	25	13	/	21.75	/	-2.52	-0.37	/	19.23	/	34.77	PASS
		25	/	21.48	/	-2.52	-0.37	/	18.96	/	34.77	PASS
		50	0	/	21.82	/	-2.52	/	19.30	/	34.77	PASS

Note:
 1) dBd = dBi - 2.15
 2) EIRP = Conducted output power + Antenna gain (dBi)
 3) ERP = Conducted output power + Antenna gain (dBd)



2. Frequency stability

2.1 Test Result

Test Band: 14 5MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NT	LV	-1.373 3	-0.815 4	2.031 3	-0.0017	-0.0010	0.0026	2.50	PASS
				NV	-0.529 3	0.743 9	4.005 4	-0.0007	0.0009	0.0050	2.50	PASS
				HV	0.200 3	-1.373 3	3.261 6	0.0003	-0.0017	0.0041	2.50	PASS
16QAM	25	0	NT	LV	-1.373 3	-0.543 6	1.874 0	0.0017	-0.0007	0.0024	2.50	PASS
				NV	-1.487 7	-1.258 8	4.334 4	0.0019	-0.0016	0.0054	2.50	PASS
				HV	-1.316 1	-1.001 4	2.489 1	0.0017	-0.0013	0.0031	2.50	PASS

Test Band: 14 5MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NV	-30.00	-1.158 7	-0.200 3	3.032 7	-0.0015	-0.0003	0.0038	2.50	PASS
				-20.00	-0.944 1	-0.886 9	2.489 1	0.0012	-0.0011	0.0031	2.50	PASS
				-10.00	-0.972 7	-1.974 1	3.218 7	-0.0012	-0.0025	0.0040	2.50	PASS
				0.00	-0.100 1	-0.329 0	3.118 5	0.0001	0.0004	0.0039	2.50	PASS
				10.00	-0.271 8	-1.573 6	2.775 2	0.0003	-0.0020	0.0035	2.50	PASS
				20.00	-0.715 3	-2.460 5	4.534 7	-0.0009	-0.0031	0.0057	2.50	PASS
				30.00	-2.203 0	-1.573 6	2.446 2	-0.0028	-0.0020	0.0031	2.50	PASS
				40.00	-0.743 9	-1.416 2	1.645 1	0.0009	-0.0018	0.0021	2.50	PASS
				50.00	-0.929 8	-0.143 1	0.686 6	-0.0012	-0.0002	0.0009	2.50	PASS
16QAM	25	0	NV	-30.00	-3.690	-	1.130	0.0047	-0.0014	0.0014	2.50	PASS



				7	1.087 2	1					
			-20.00	2.632 1	- 1.416 2	3.519 1	0.0033	-0.0018	0.0044	2.50	PASS
			-10.00	1.802 4	- 2.775 2	2.002 7	0.0023	-0.0035	0.0025	2.50	PASS
			0.00	3.104 2	- 3.404 6	2.789 5	0.0039	-0.0043	0.0035	2.50	PASS
			10.00	0.972 7	- 1.587 9	2.288 8	0.0012	-0.0020	0.0029	2.50	PASS
			20.00	1.401 9	- 0.672 3	1.516 3	0.0018	-0.0008	0.0019	2.50	PASS
			30.00	0.429 2	- 2.145 8	6.094 0	0.0005	-0.0027	0.0077	2.50	PASS
			40.00	1.845 4	- 2.517 7	4.377 4	0.0023	-0.0032	0.0055	2.50	PASS
			50.00	0.743 9	- 0.085 8	4.320 1	0.0009	-0.0001	0.0054	2.50	PASS

Test Band: 14 10MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NT	LV	/	- 1.330 4	/	/	-0.0017	/	2.50	PASS
				NV	/	- 1.244 5	/	/	-0.0016	/	2.50	PASS
				HV	/	- 1.387 6	/	/	-0.0017	/	2.50	PASS
16QAM	50	0	NT	LV	/	- 0.929 8	/	/	-0.0012	/	2.50	PASS
				NV	/	- 4.234 3	/	/	-0.0053	/	2.50	PASS
				HV	/	- 2.217 3	/	/	-0.0028	/	2.50	PASS

Test Band: 14 10MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NV	-30.00	/	- 1.173 0	/	/	-0.0015	/	2.50	PASS
				-20.00	/	-	/	/	-0.0051	/	2.50	PASS



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						4.019 7						
				-10.00	/	- 2.474 8	/	/	-0.0031	/	2.50	PASS
				0.00	/	- 1.230 2	/	/	-0.0016	/	2.50	PASS
				10.00	/	- 4.277 2	/	/	-0.0054	/	2.50	PASS
				20.00	/	- 1.573 6	/	/	-0.0020	/	2.50	PASS
				30.00	/	- 1.144 4	/	/	-0.0014	/	2.50	PASS
				40.00	/	- 2.346 0	/	/	-0.0030	/	2.50	PASS
				50.00	/	- 2.460 5	/	/	-0.0031	/	2.50	PASS
16QAM	50	0	NV	-30.00	/	- 4.577 6	/	/	-0.0058	/	2.50	PASS
				-20.00	/	- 2.102 9	/	/	-0.0027	/	2.50	PASS
				-10.00	/	- 0.944 1	/	/	-0.0012	/	2.50	PASS
				0.00	/	- 1.616 5	/	/	-0.0020	/	2.50	PASS
				10.00	/	- 2.288 8	/	/	-0.0029	/	2.50	PASS
				20.00	/	- 0.228 9	/	/	-0.0003	/	2.50	PASS
				30.00	/	- 2.760 9	/	/	-0.0035	/	2.50	PASS
				40.00	/	- 0.457 8	/	/	-0.0006	/	2.50	PASS
				50.00	/	- 3.433 2	/	/	-0.0043	/	2.50	PASS

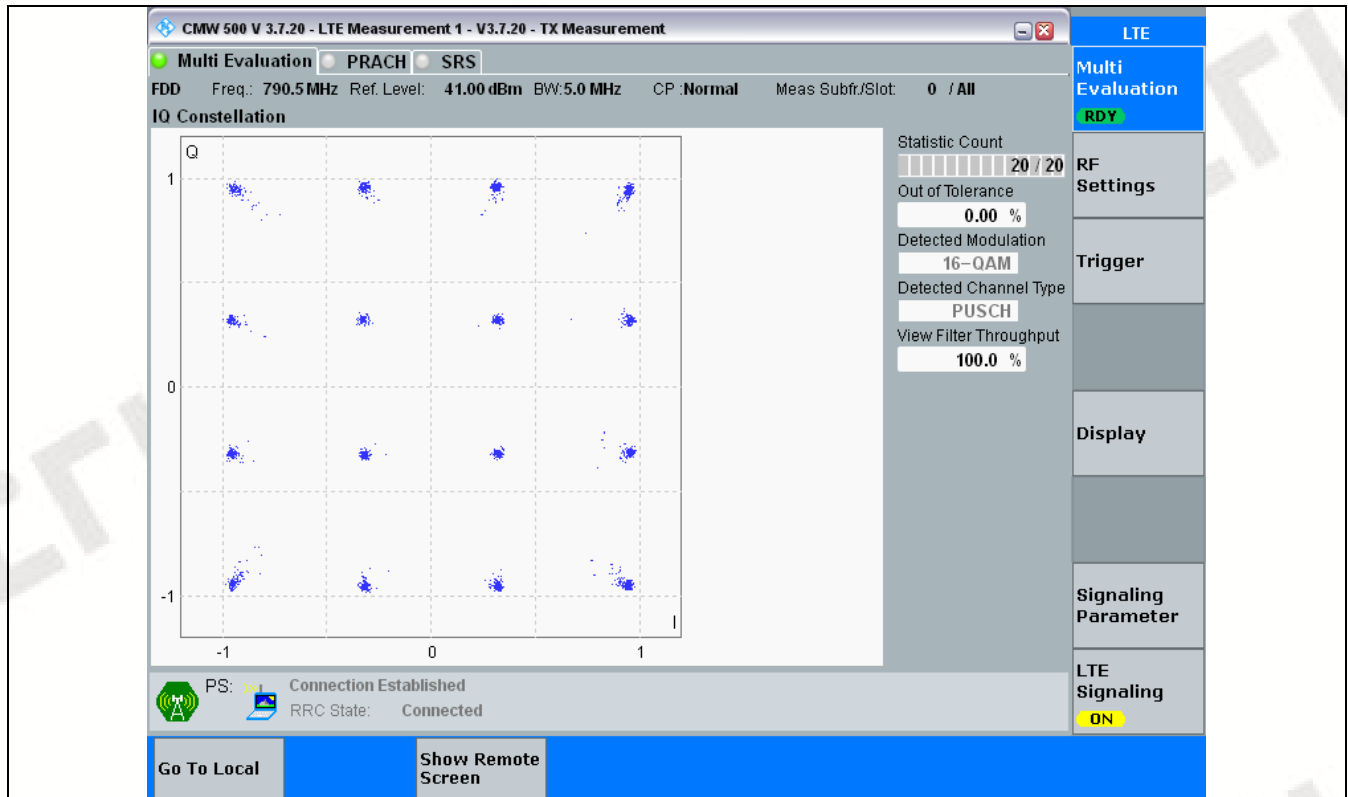


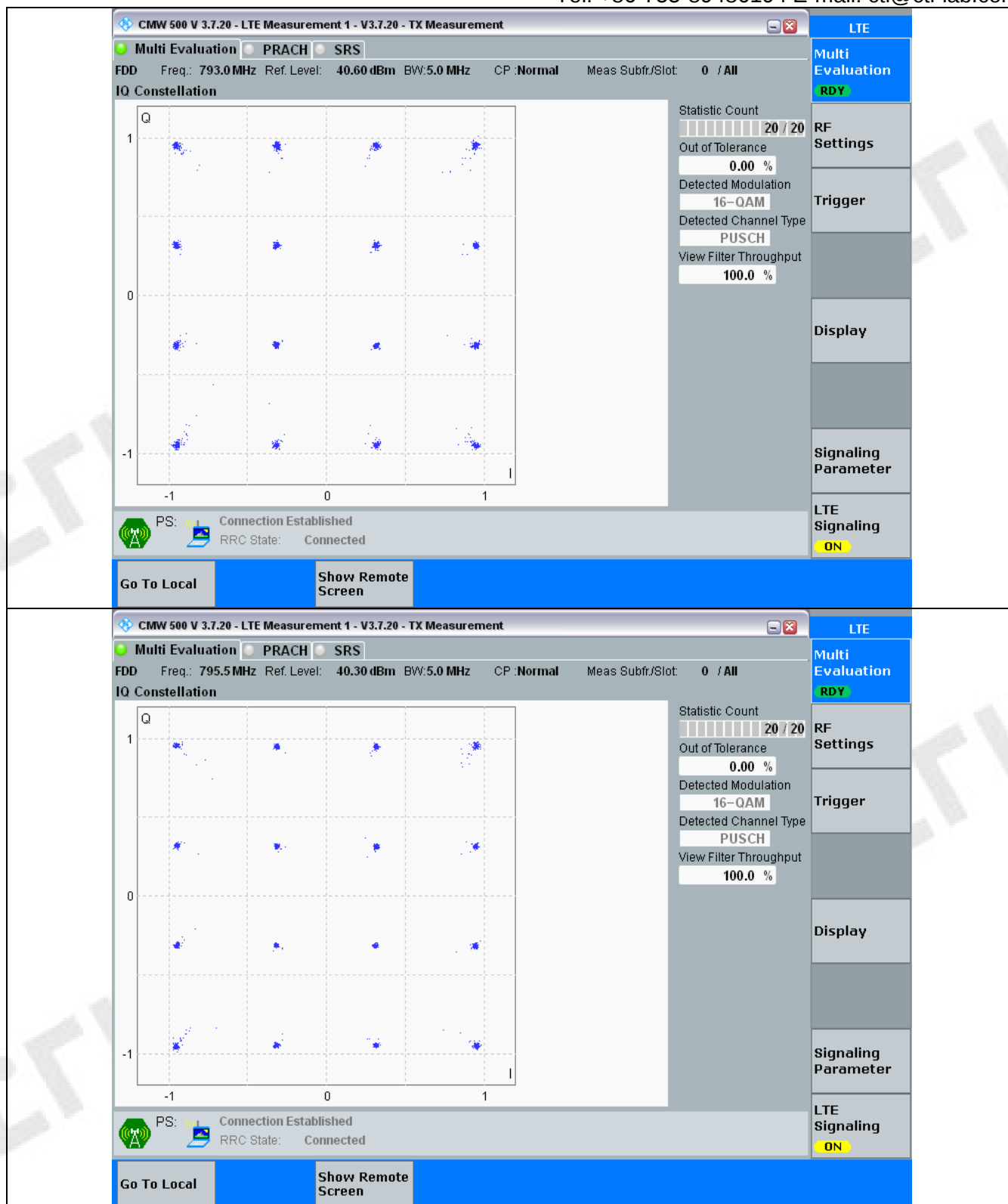
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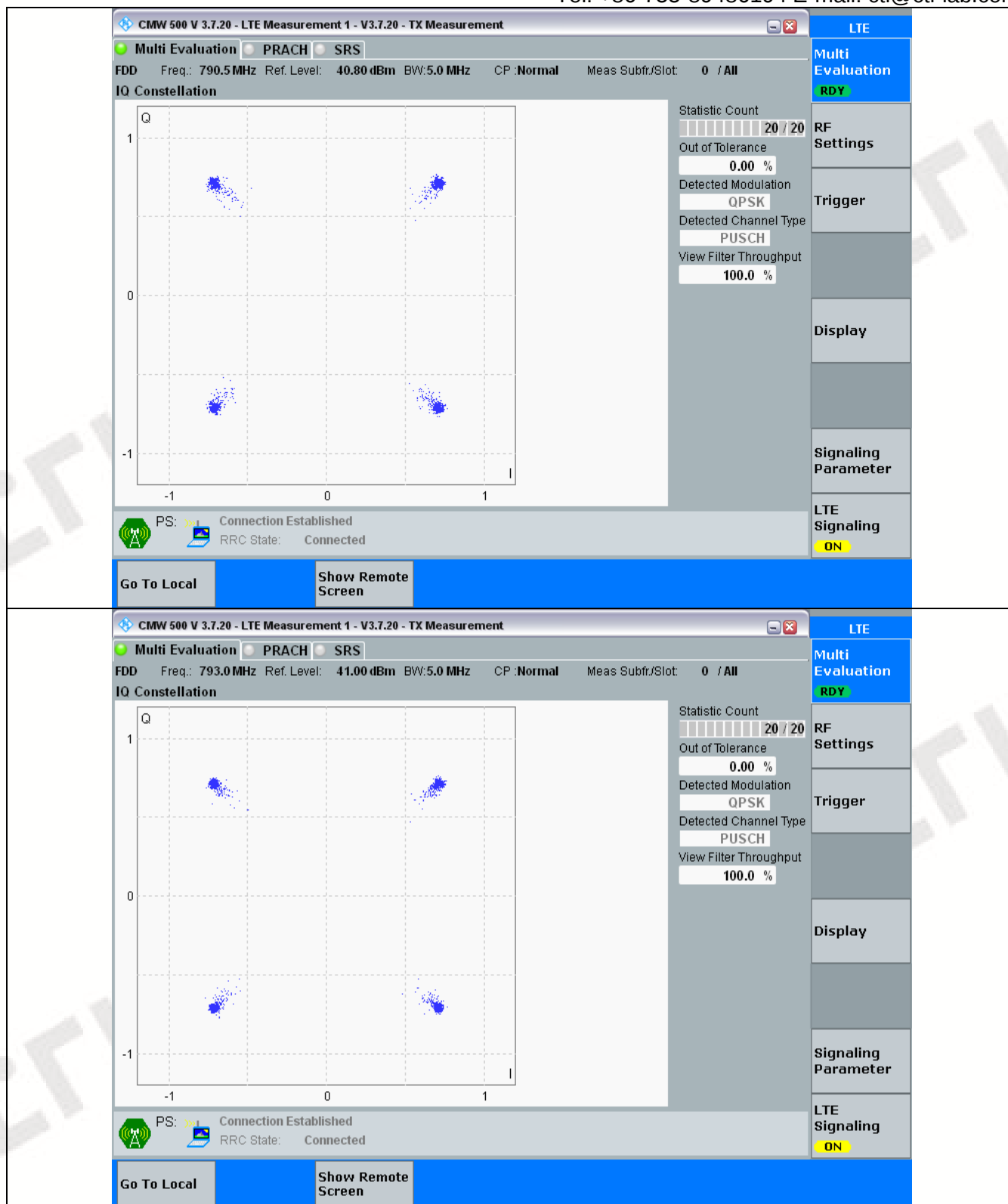
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3. Modulation Characteristics

3.1 Test Graph



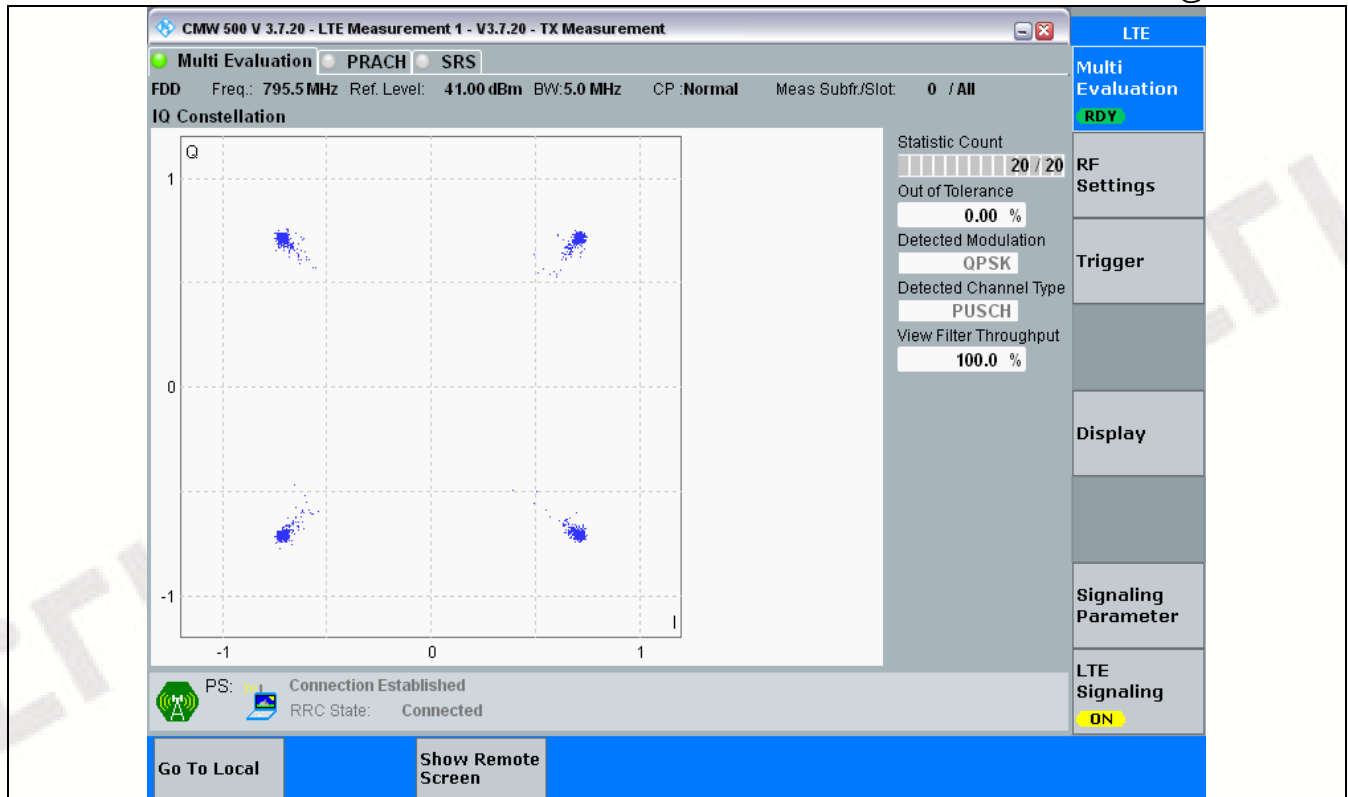






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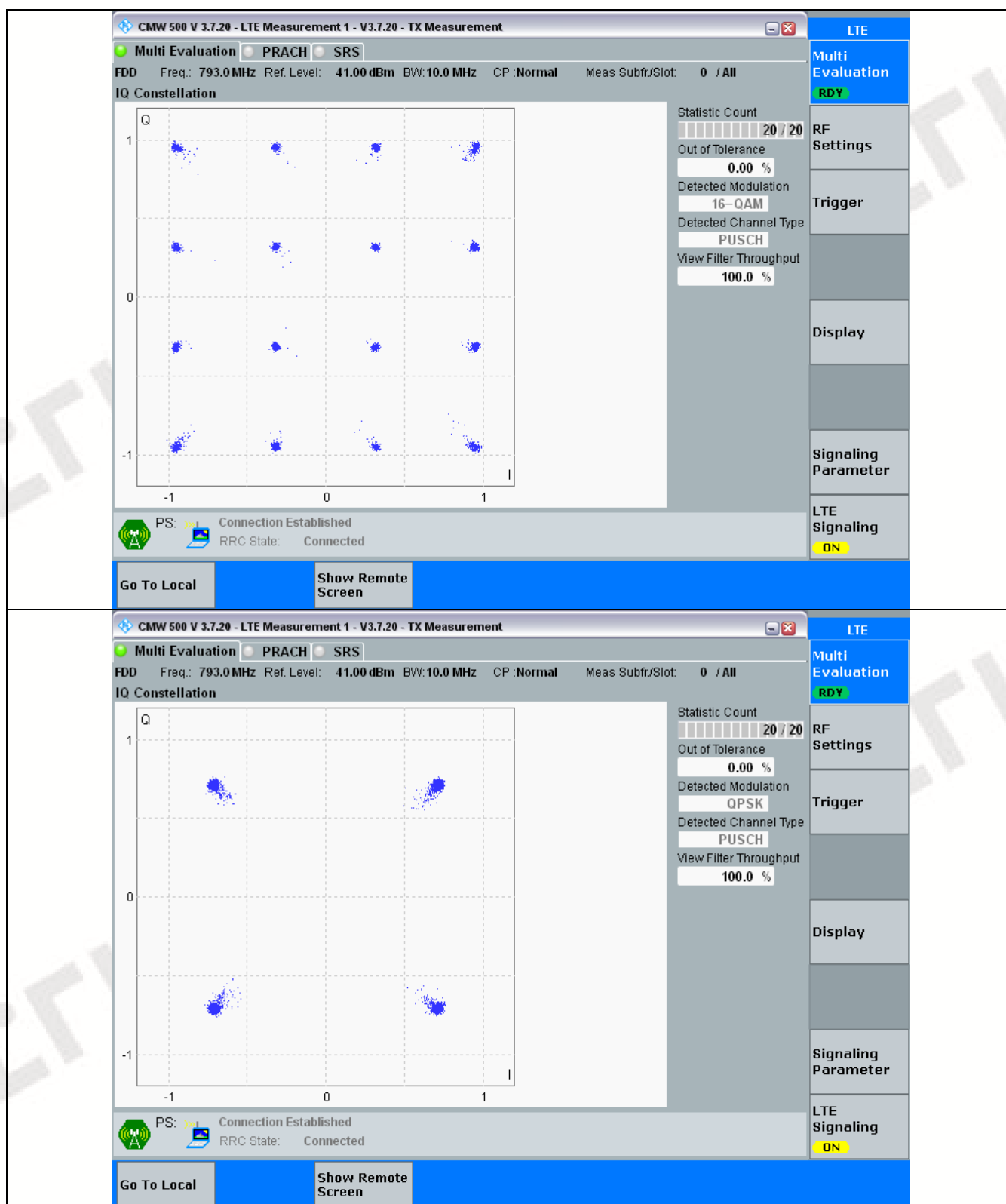




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3.1 Test Graph



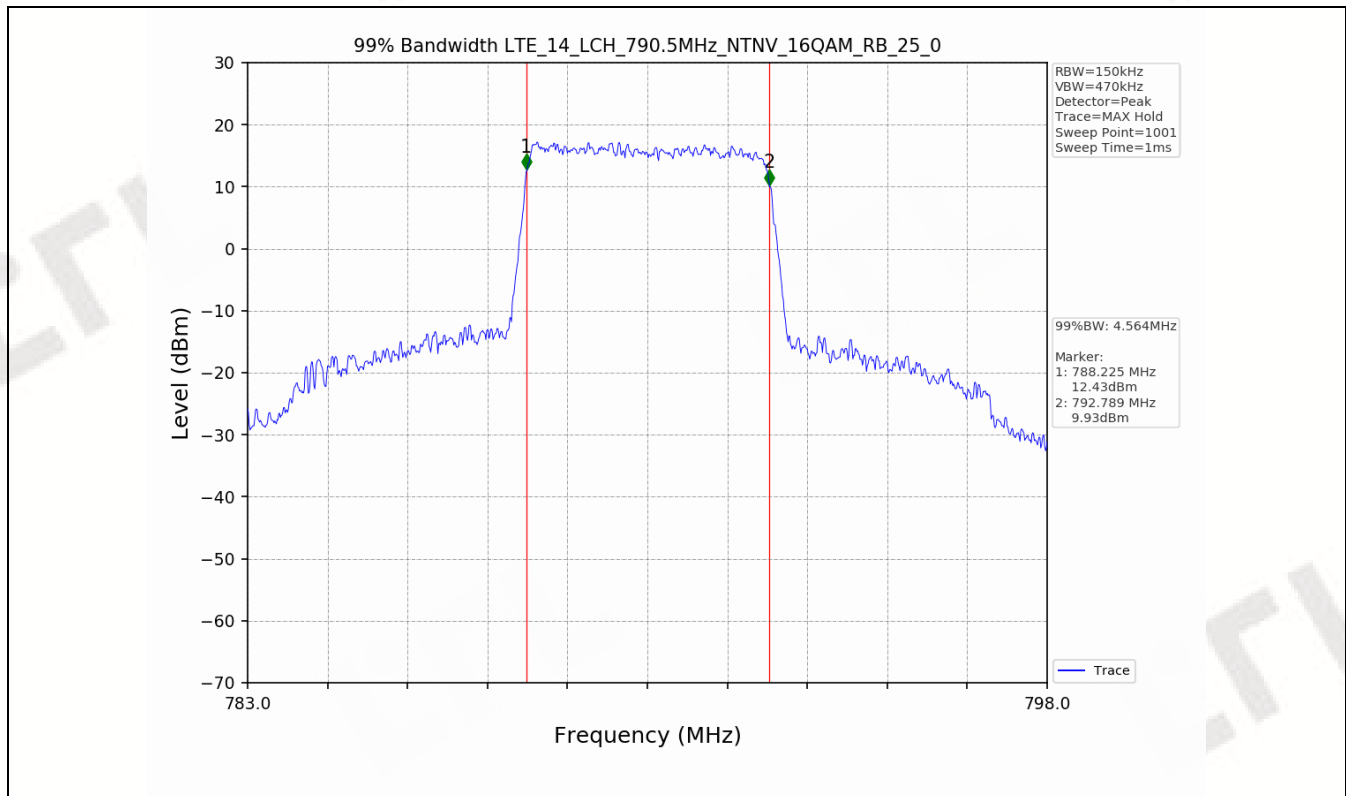


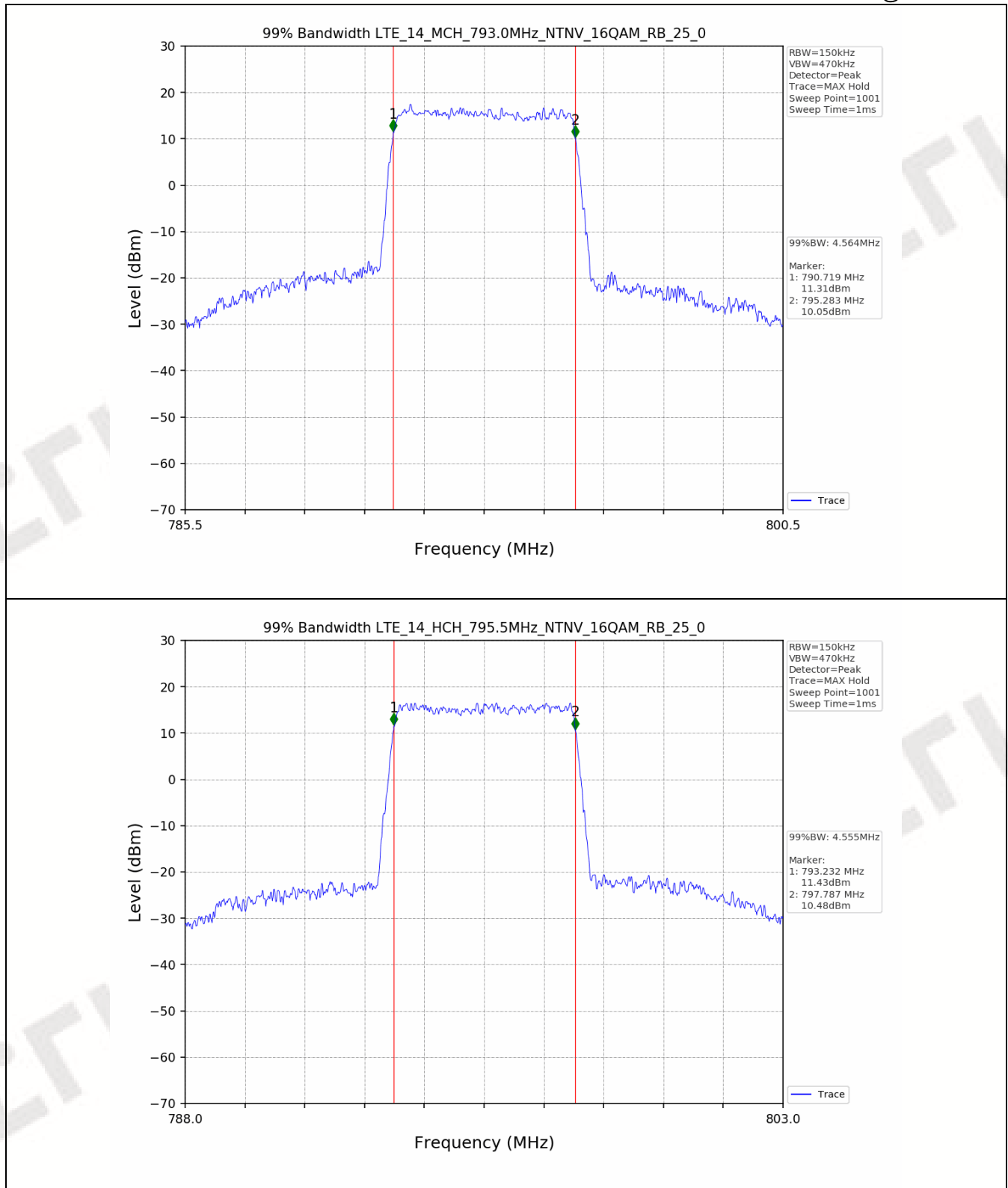
4. 99% & 26dB Bandwidth

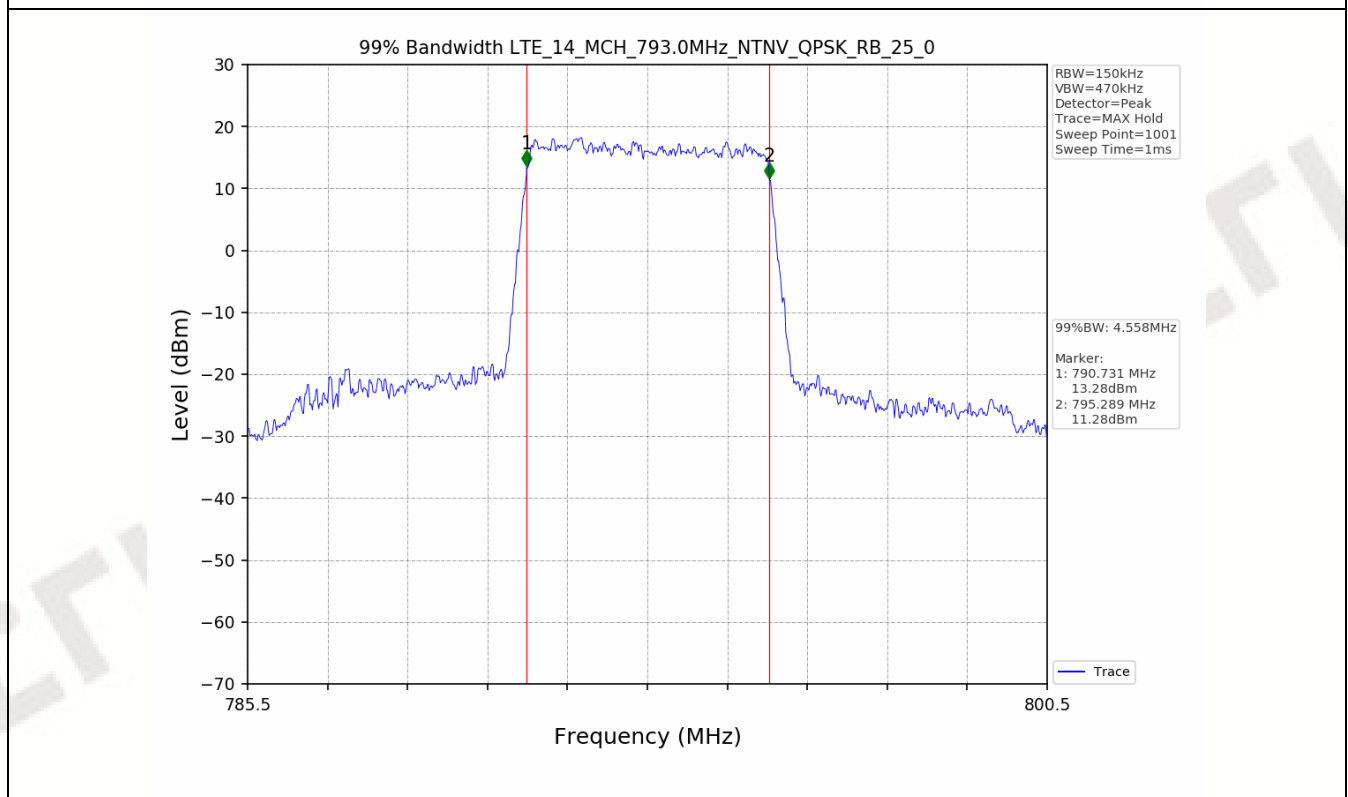
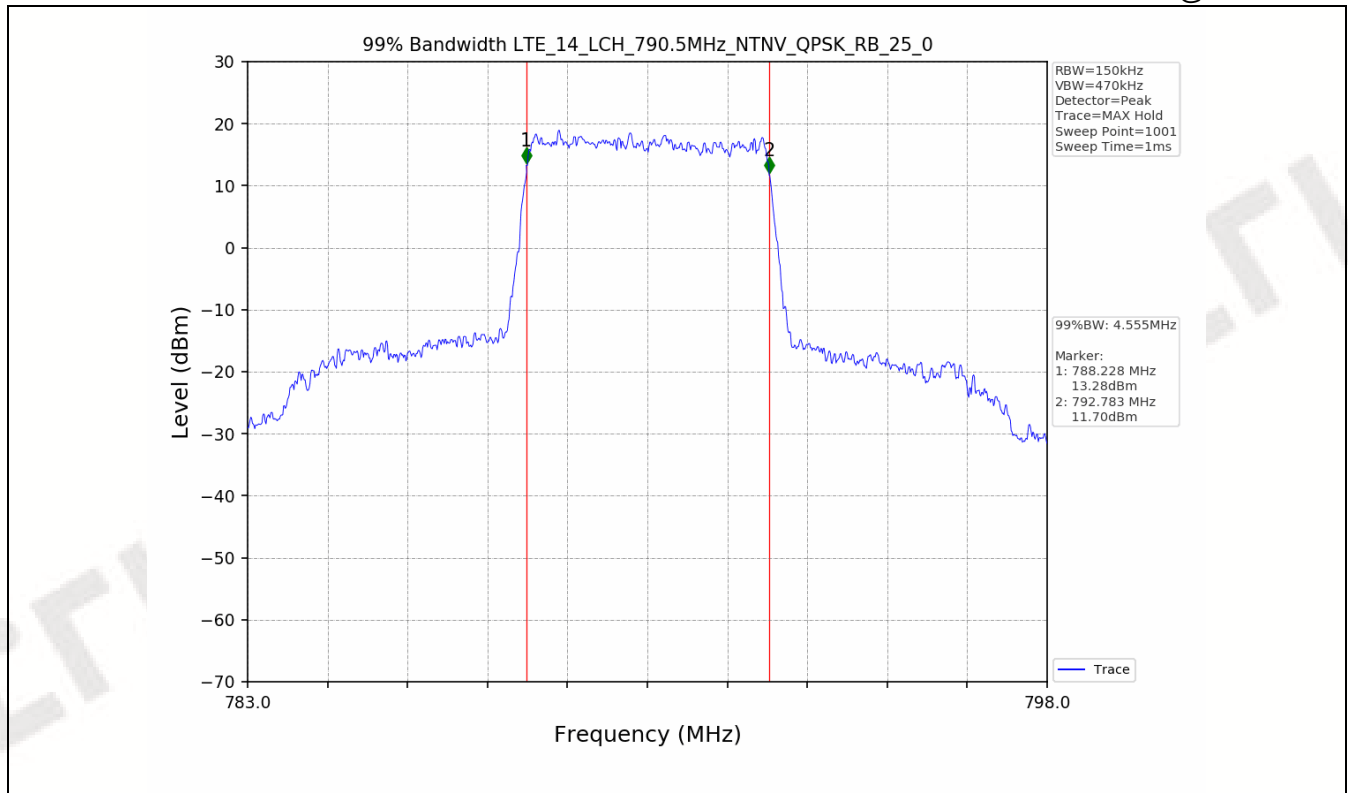
4.1 Test Result

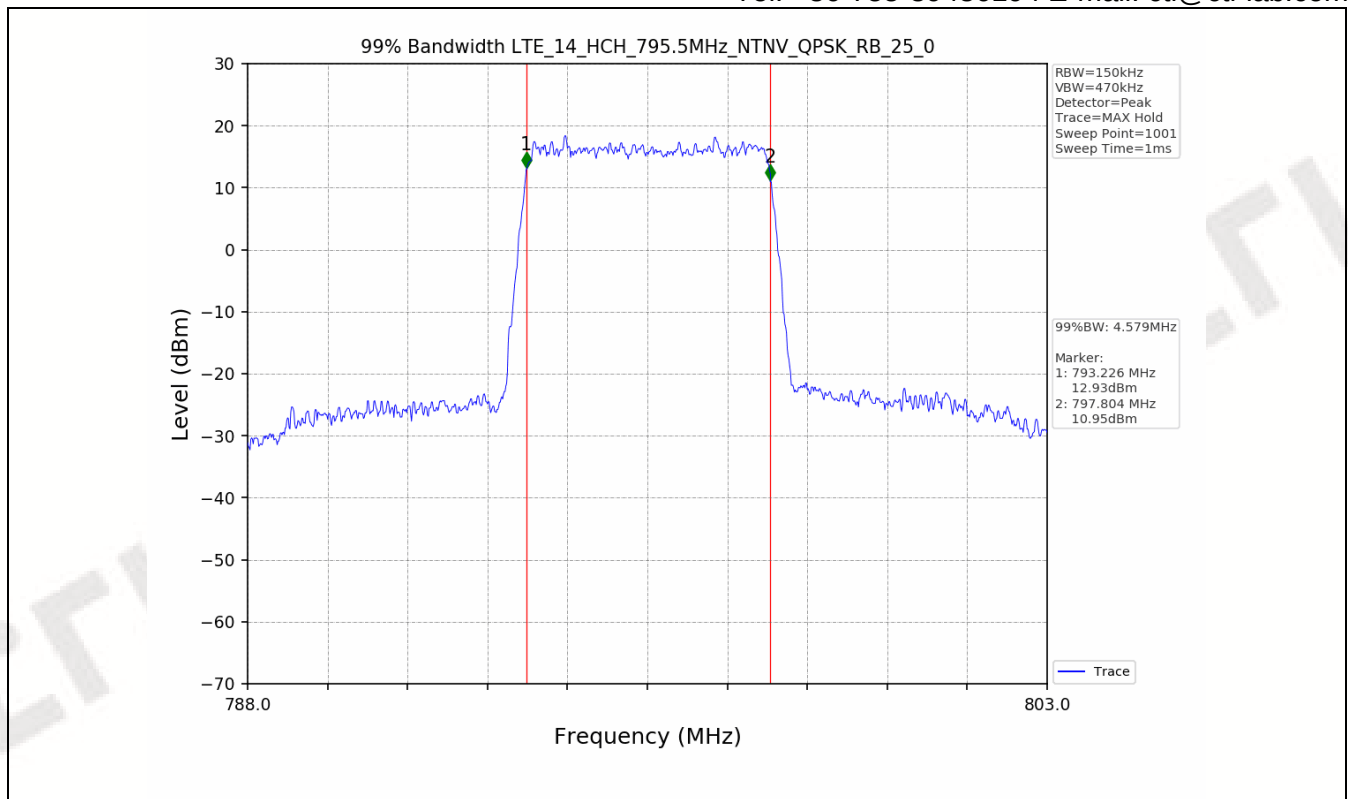
Test Band: 14_5MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	25	0	4.555	4.558	4.579	N/A	PASS
16QAM	25	0	4.564	4.564	4.555	N/A	PASS

4.2 Test Graph





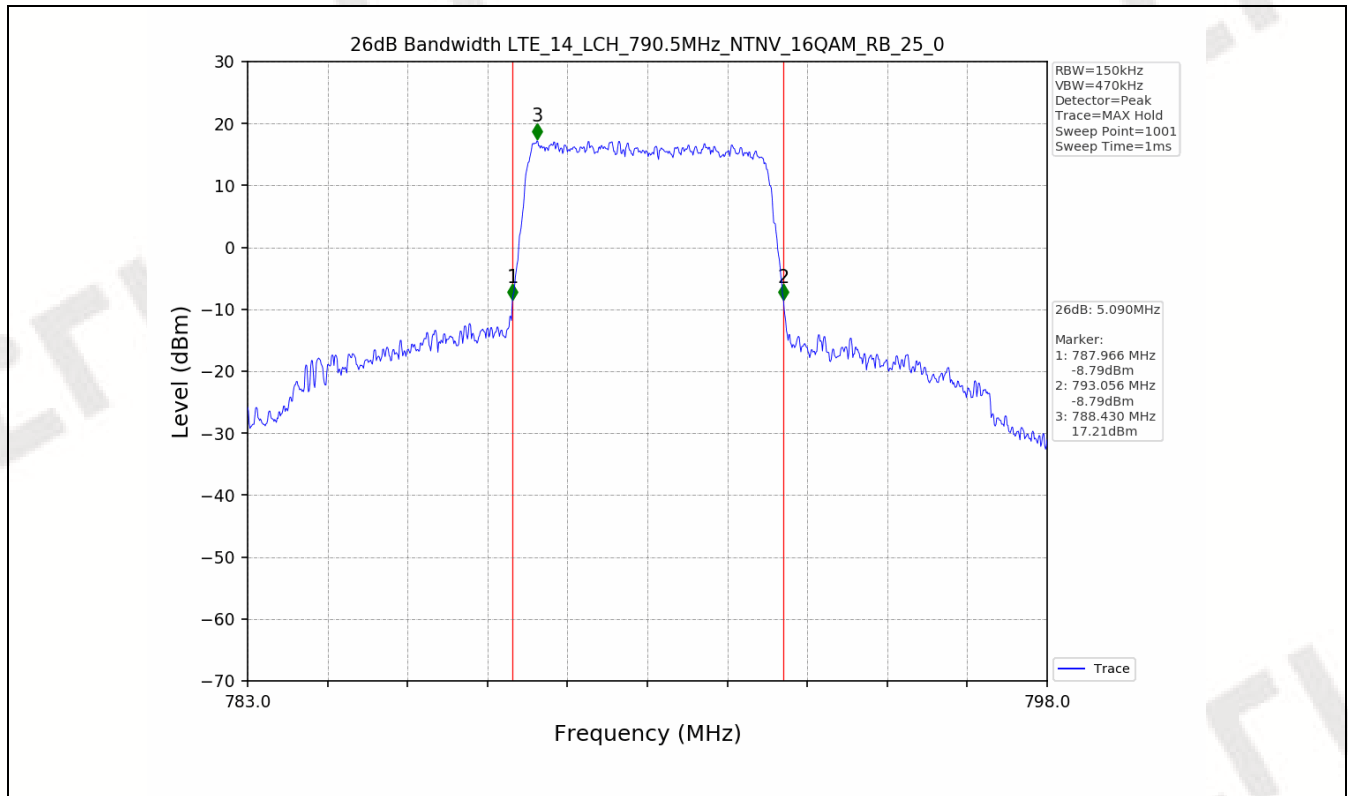


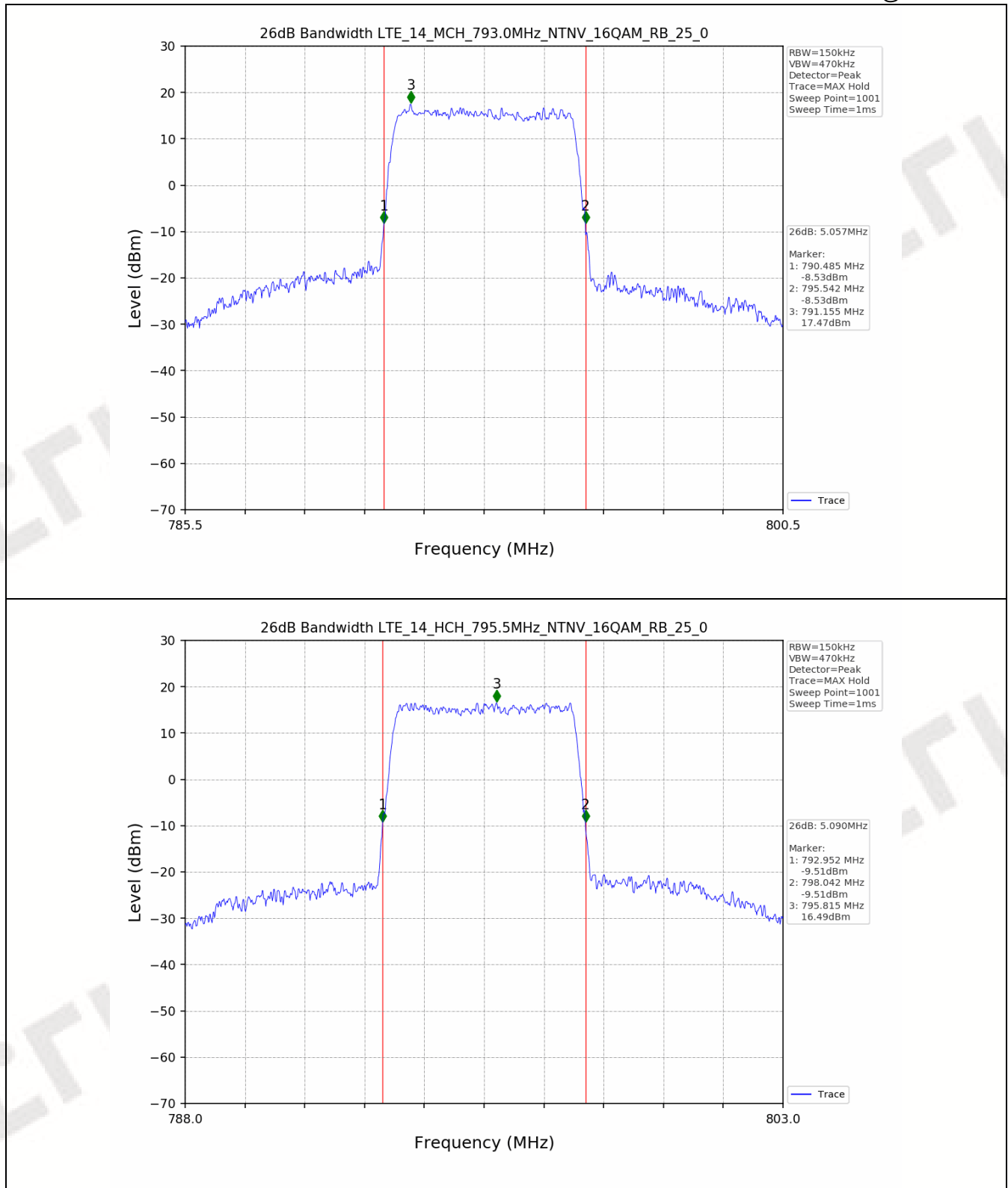


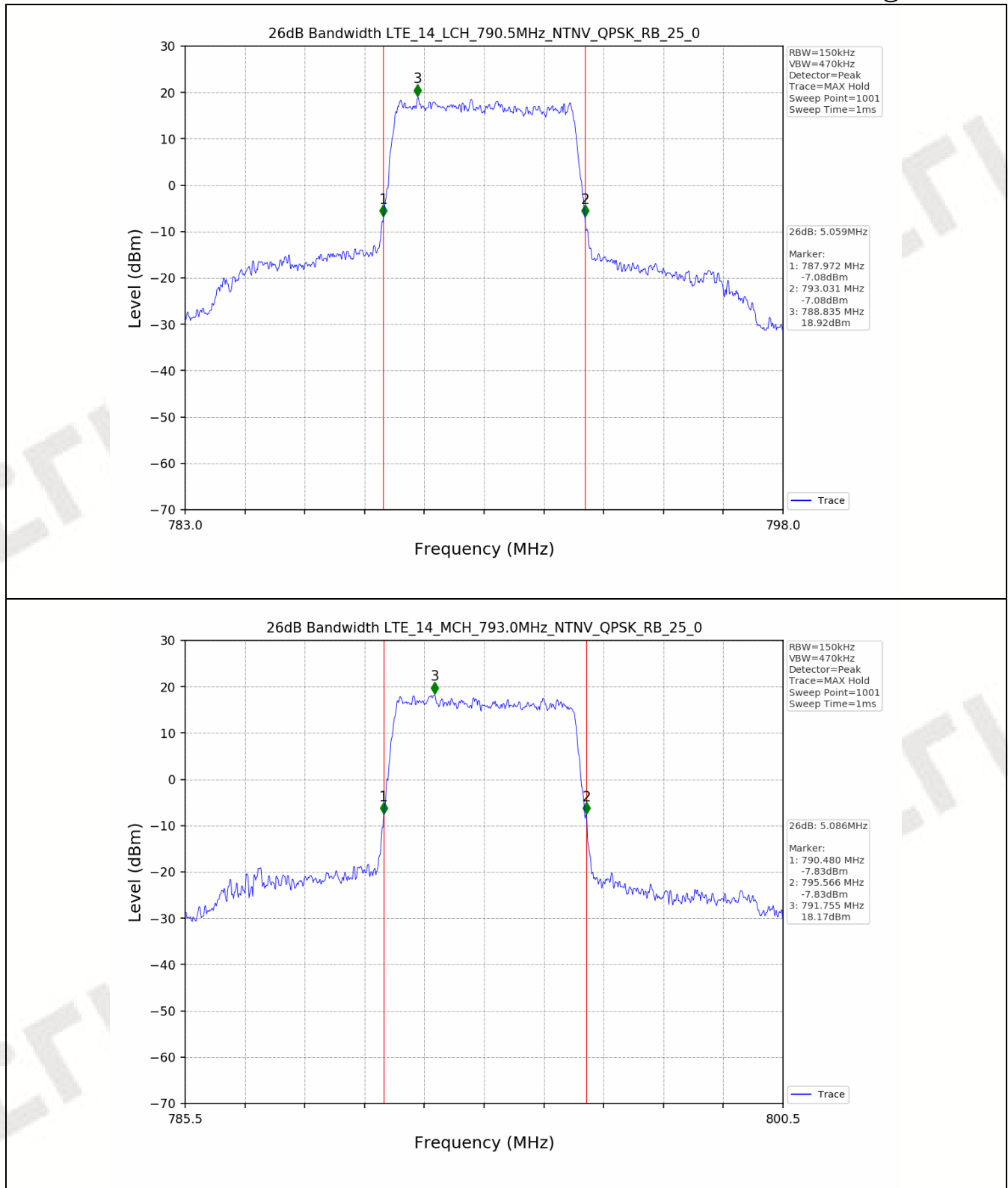


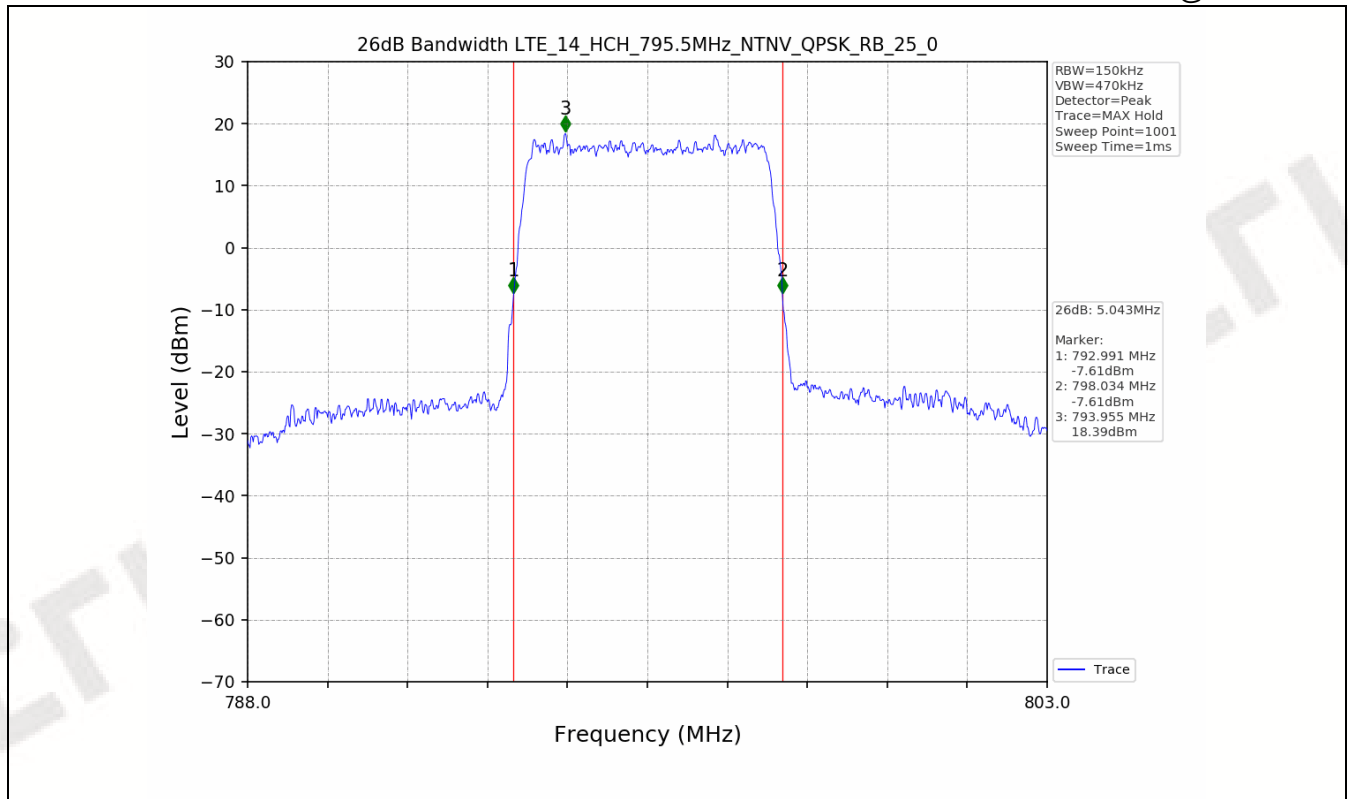
Test Band: 14_5MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	25	0	5.059	5.086	5.043	N/A	PASS
16QAM	25	0	5.090	5.057	5.090	N/A	PASS

4.2 Test Graph





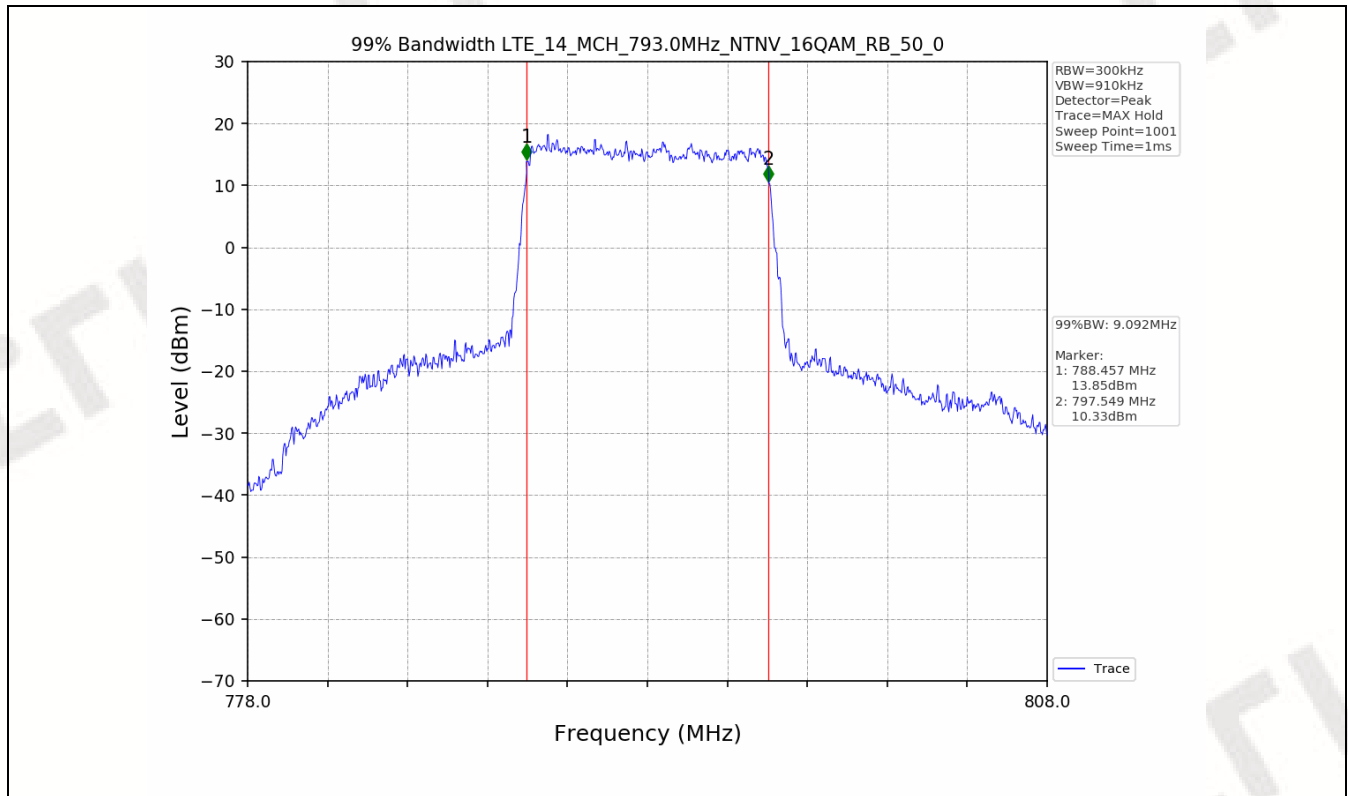


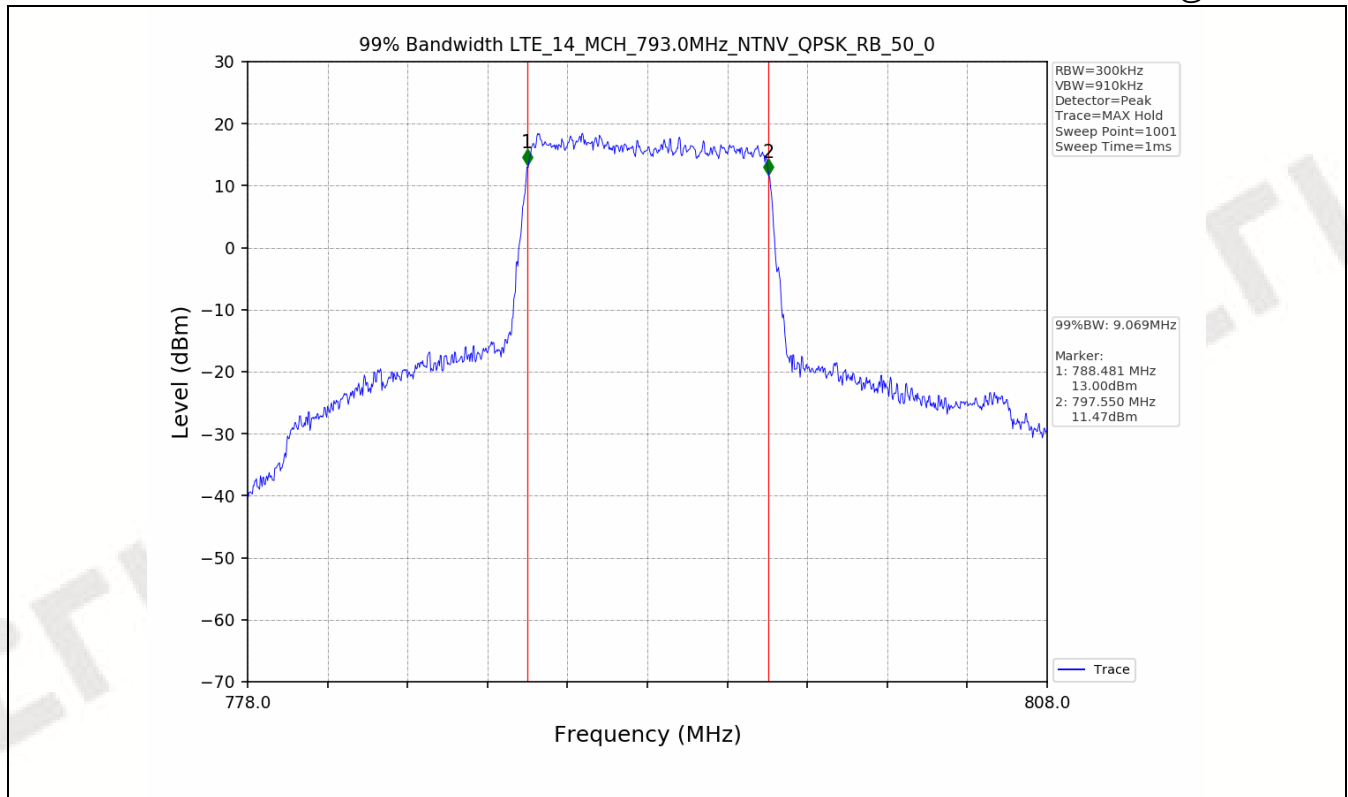




Test Band: 14 10MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	50	0	/	9.069	/	N/A	PASS
16QAM	50	0	/	9.092	/	N/A	PASS

4.2 Test Graph

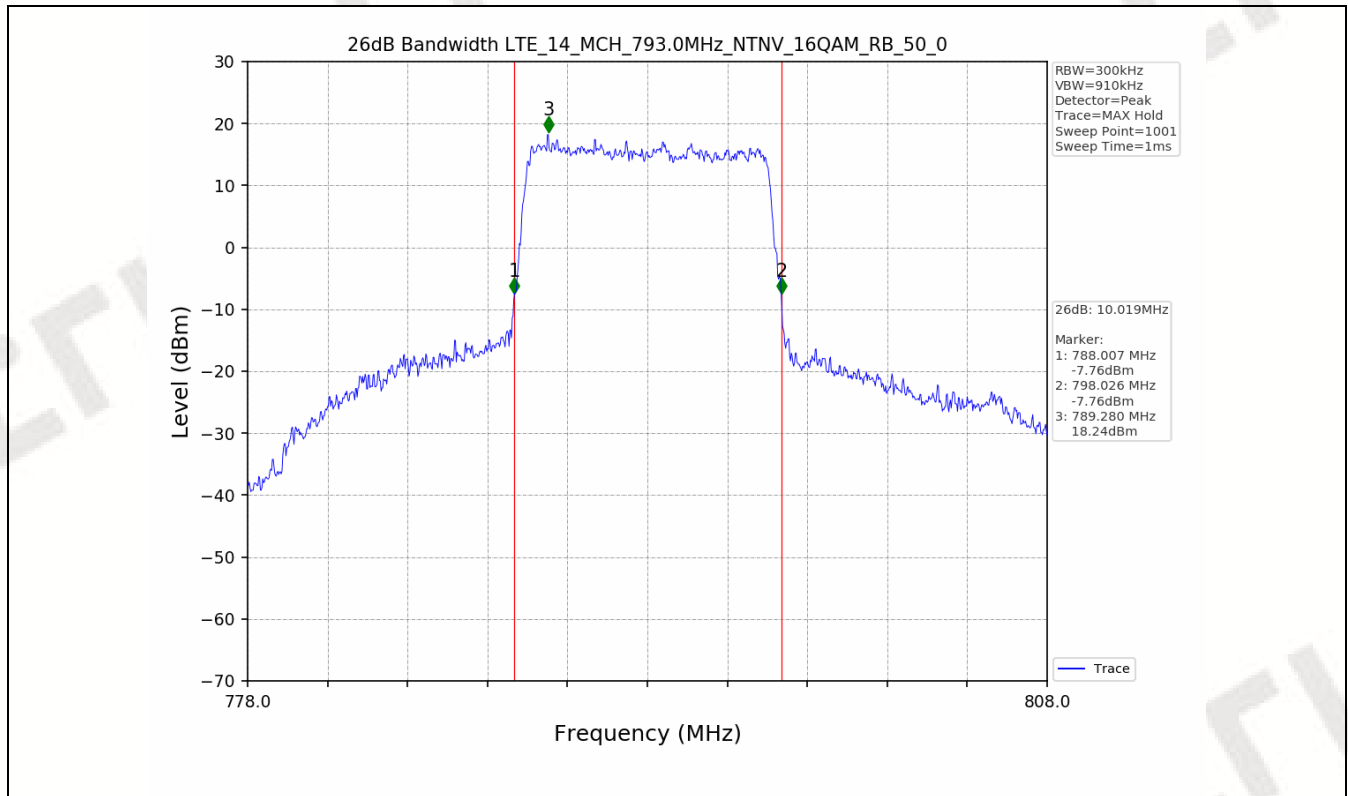


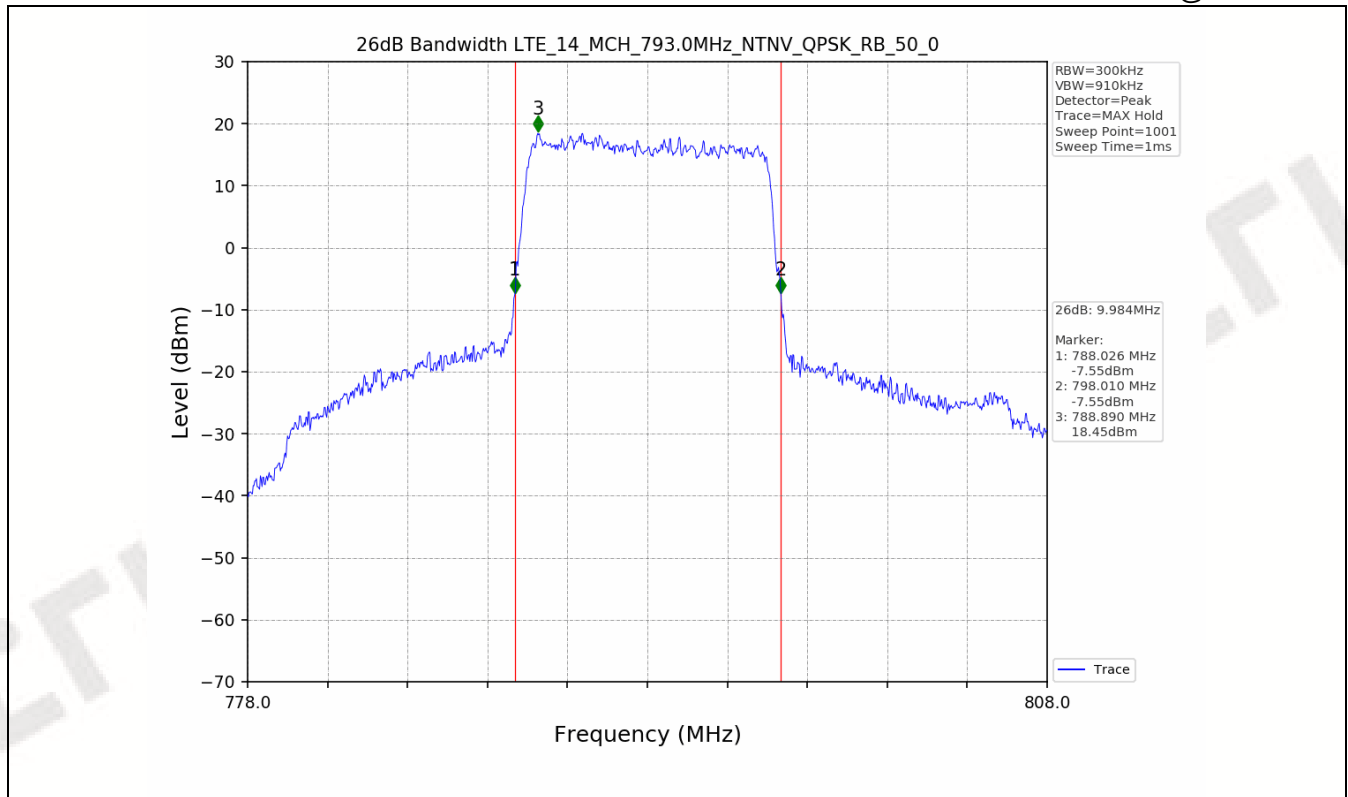




Test Band: 14 10MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	50	0	/	9.984	/	N/A	PASS
16QAM	50	0	/	10.019	/	N/A	PASS

4.2 Test Graph





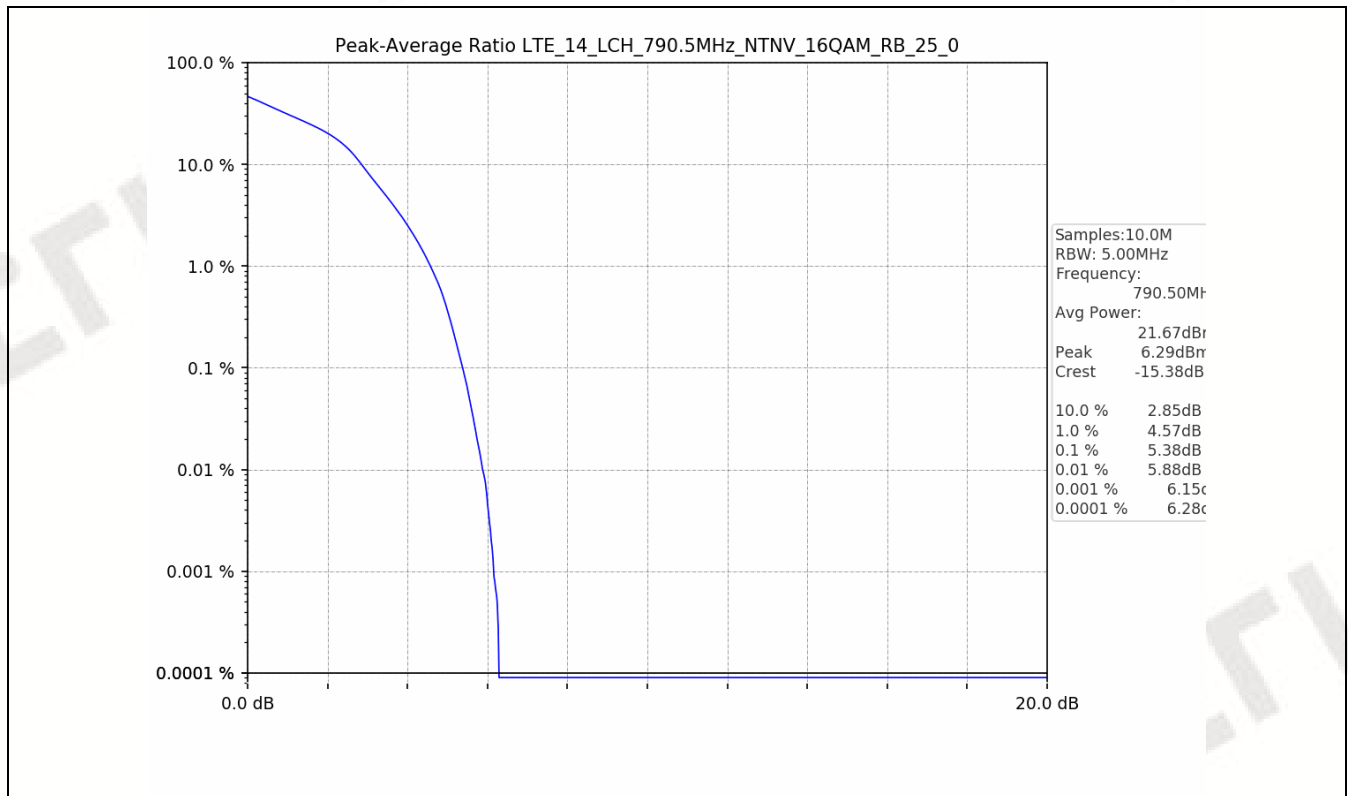


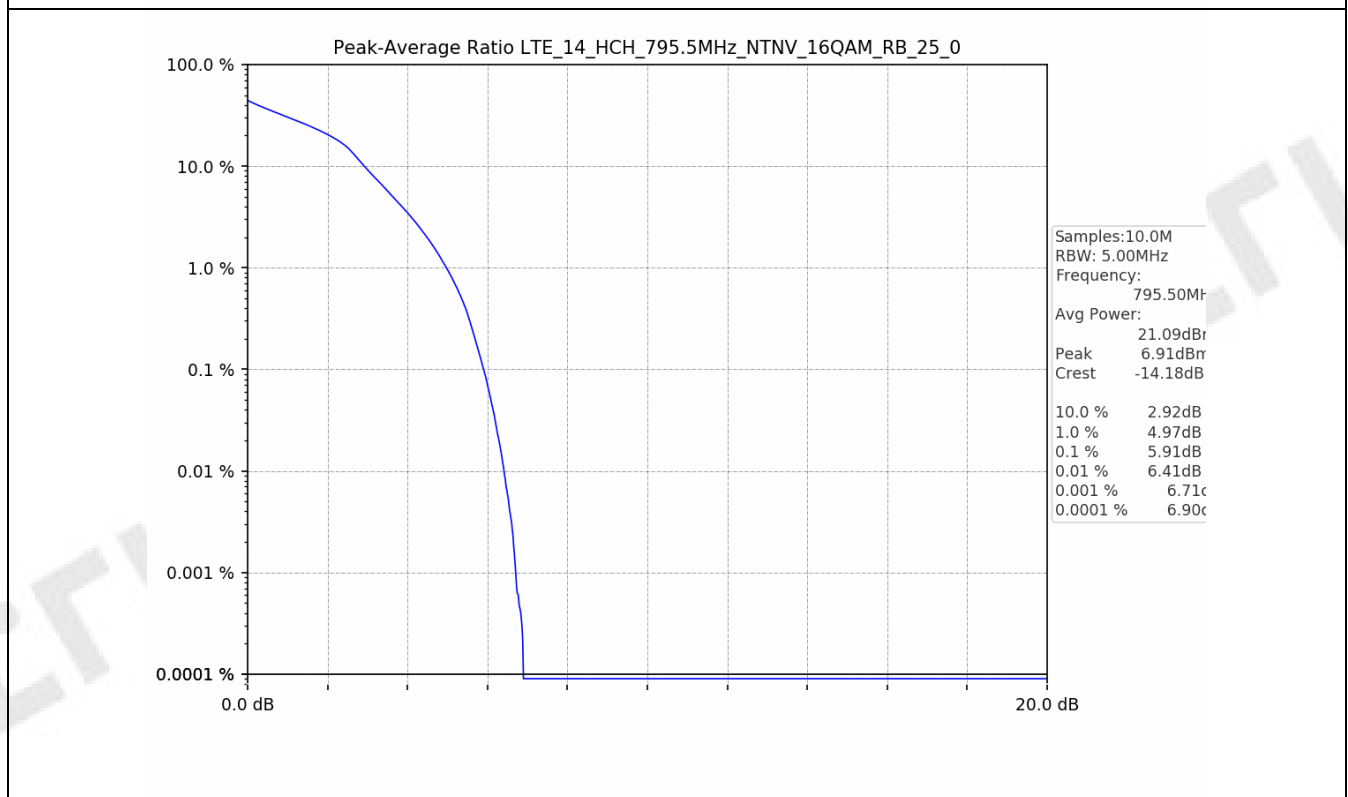
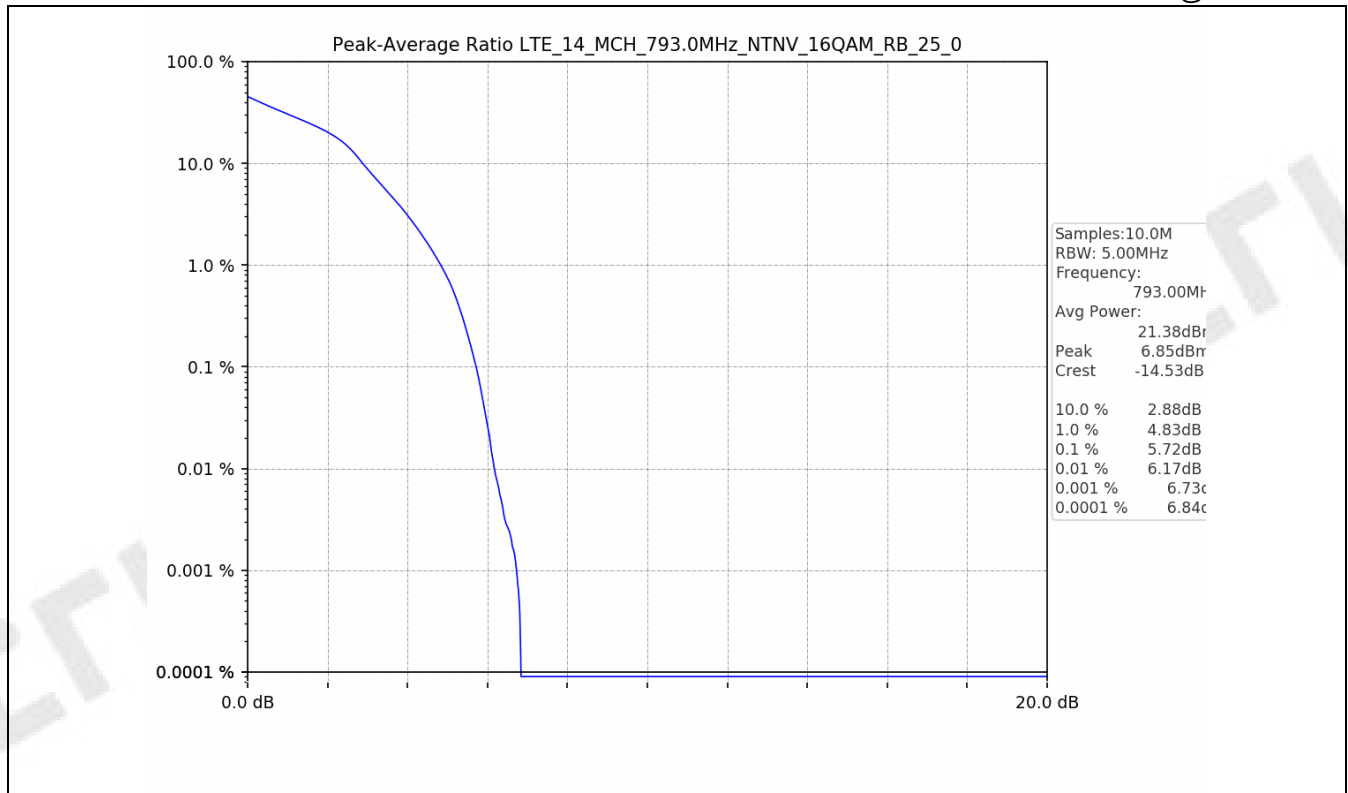
5. Peak-Average Ratio

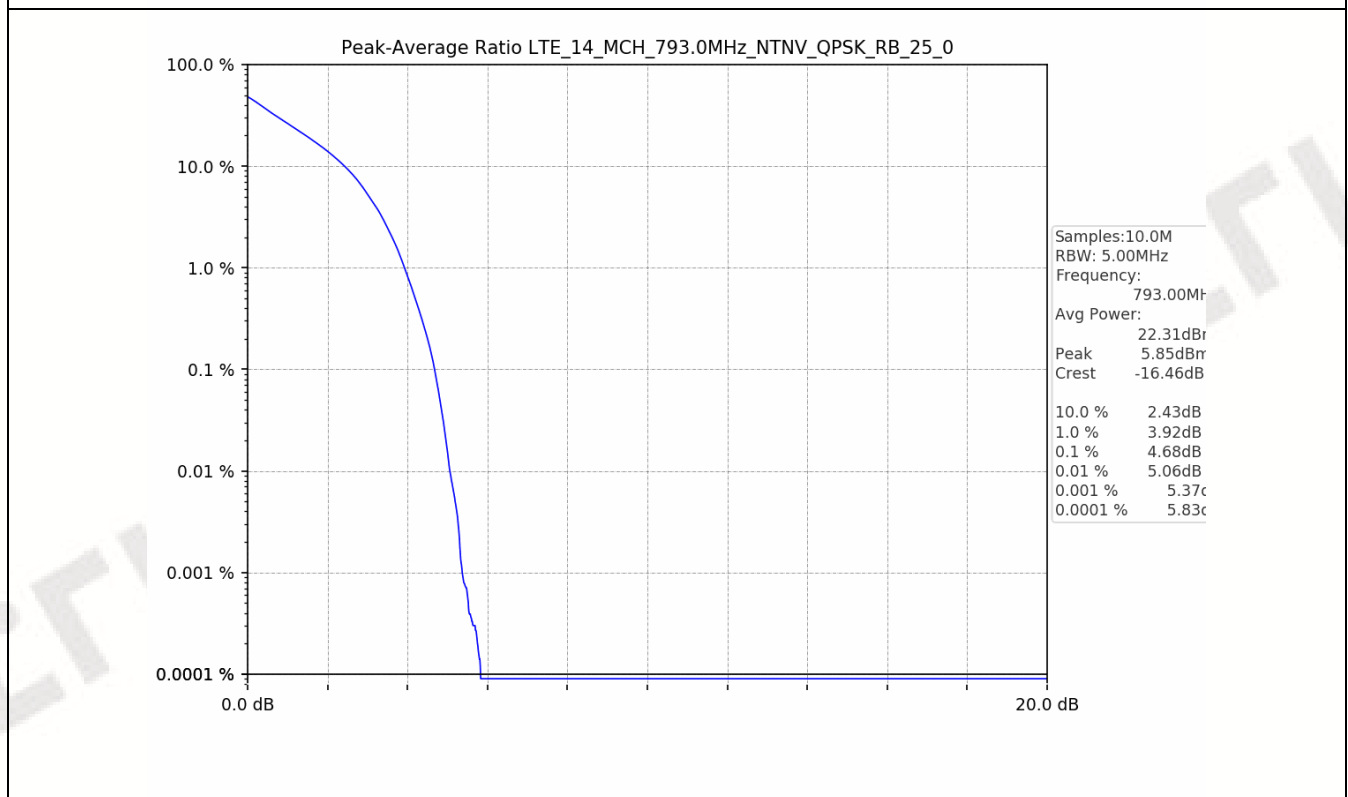
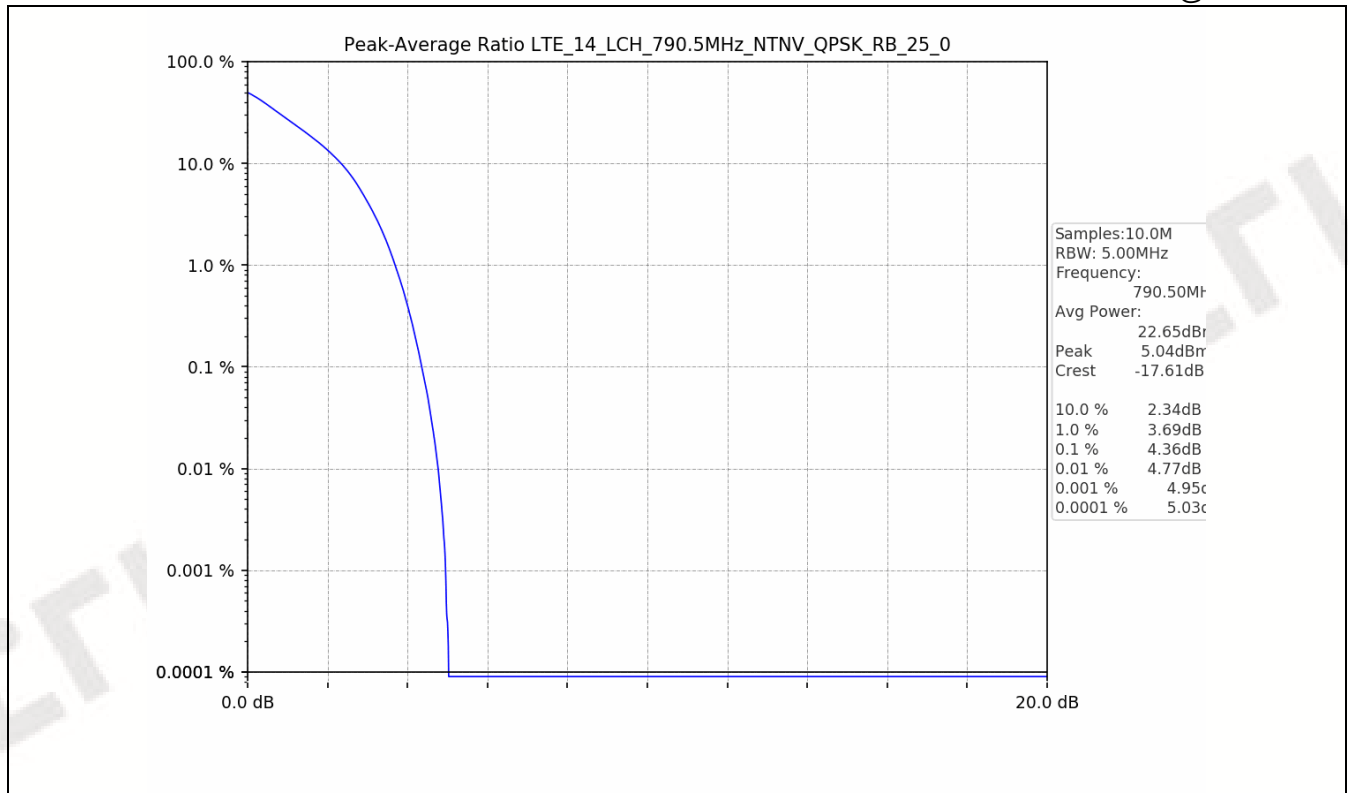
5.1 Test Result

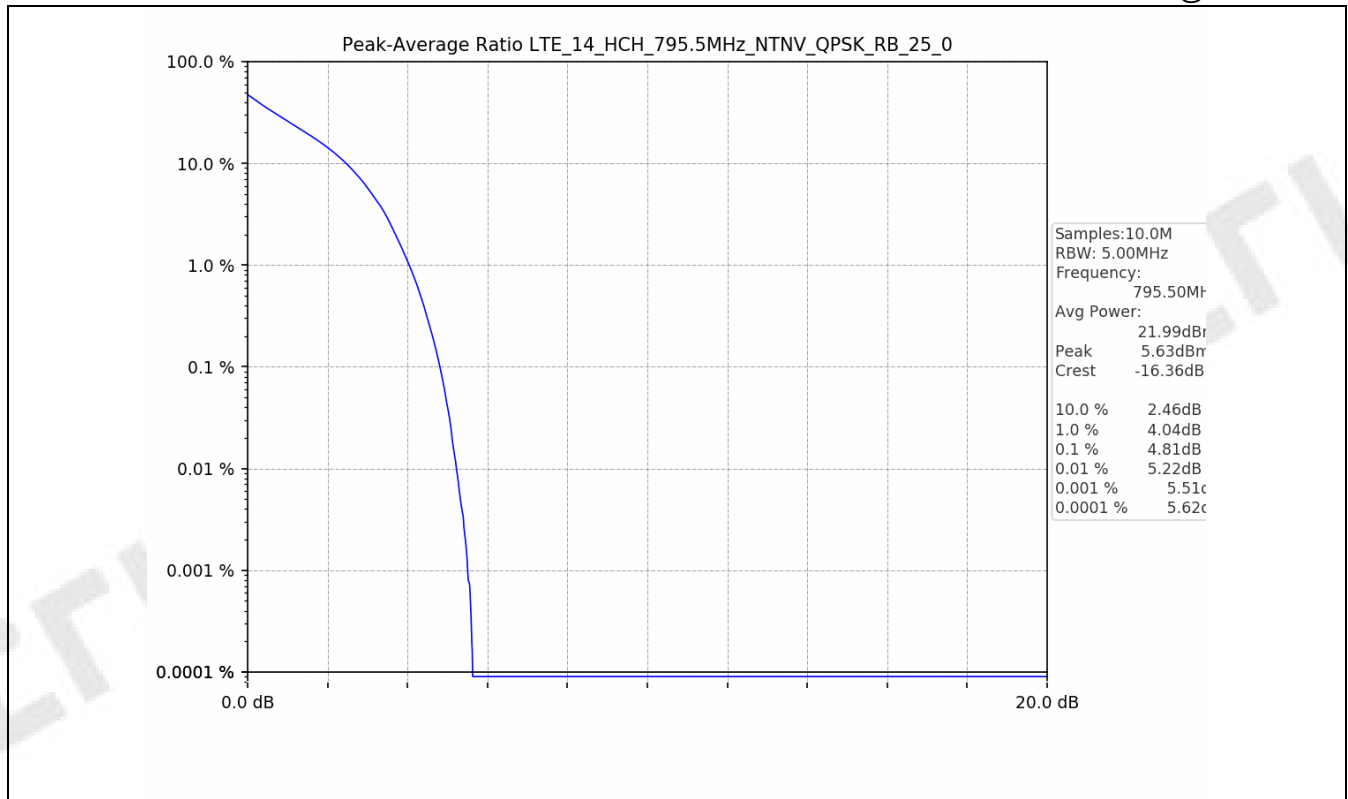
Test Band: 14_ 5MHz Bandwidth							
Test Mode	RB Allocation		Test result (dB)			Limit (dB)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	25	0	4.36	4.68	4.81	13	PASS
16QAM	25	0	5.38	5.72	5.91	13	PASS

5.2 Test Graph





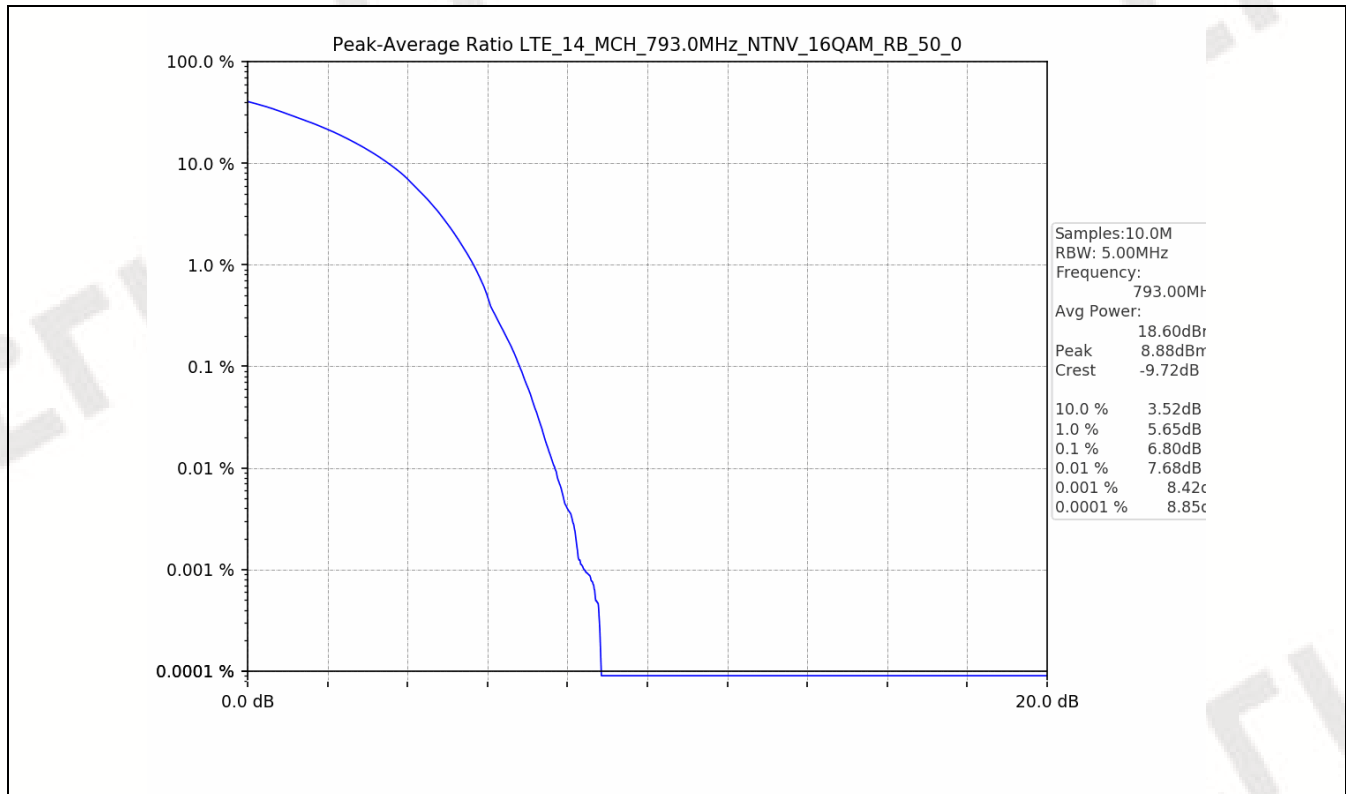


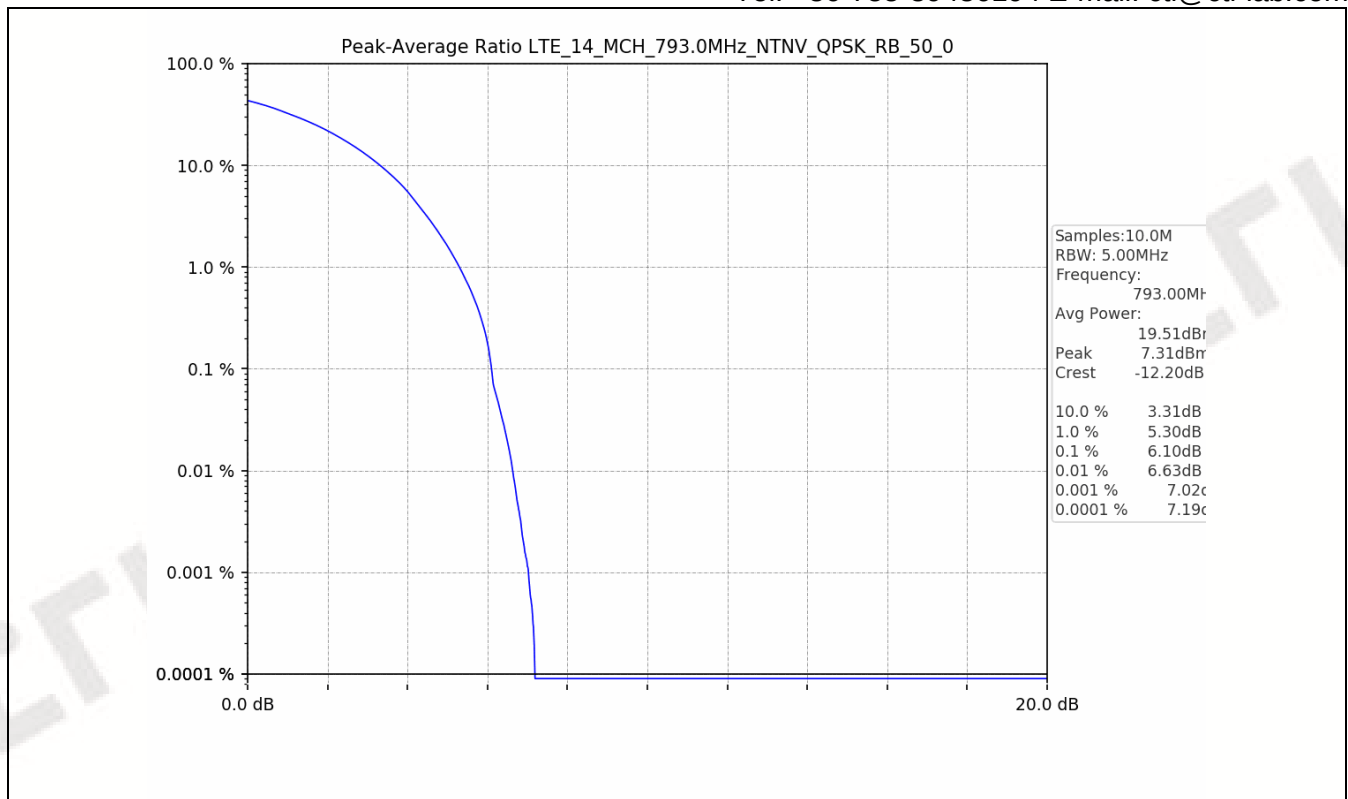




Test Band: 14 10MHz Bandwidth							
Test Mode	RB Allocation		Test result (dB)			Limit (dB)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	50	0	/	6.10	/	13	PASS
16QAM	50	0	/	6.80	/	13	PASS

5.2 Test Graph

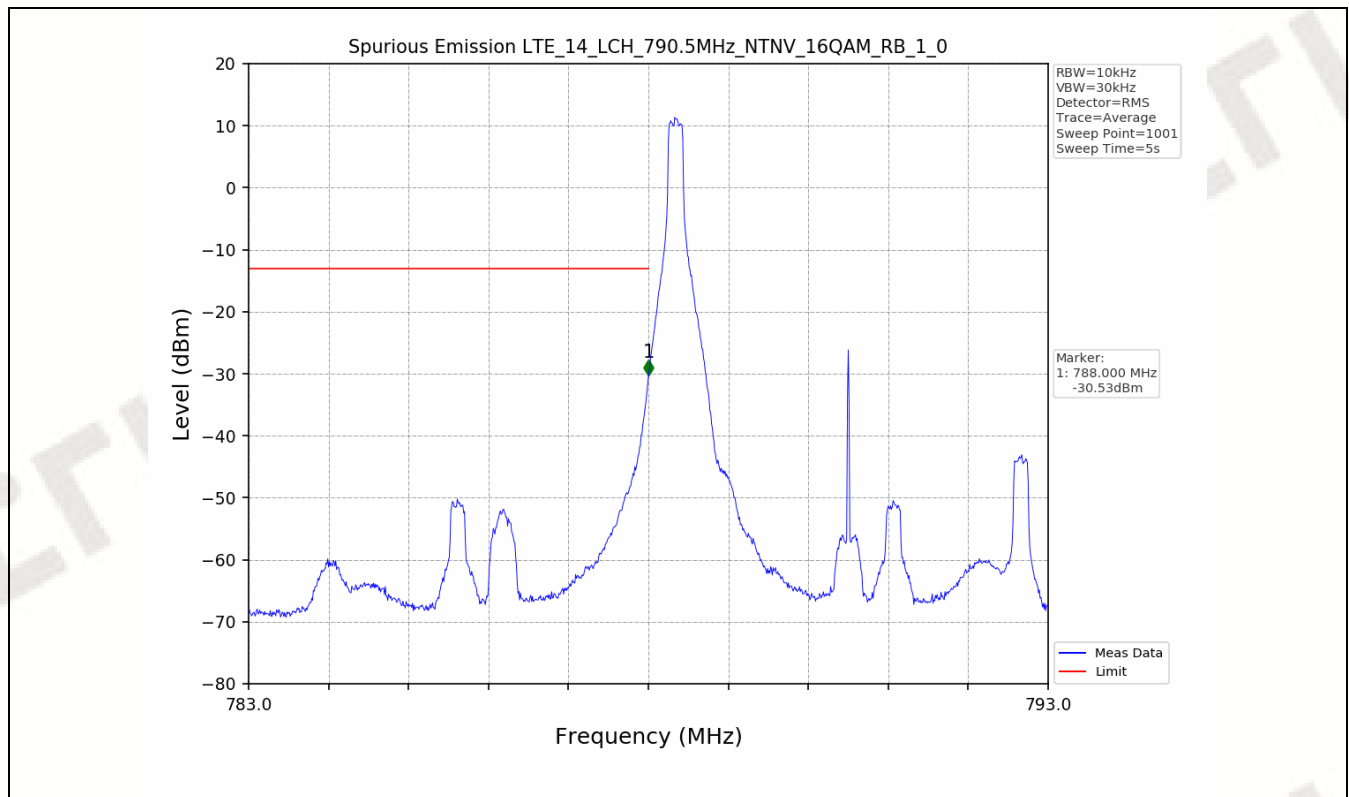


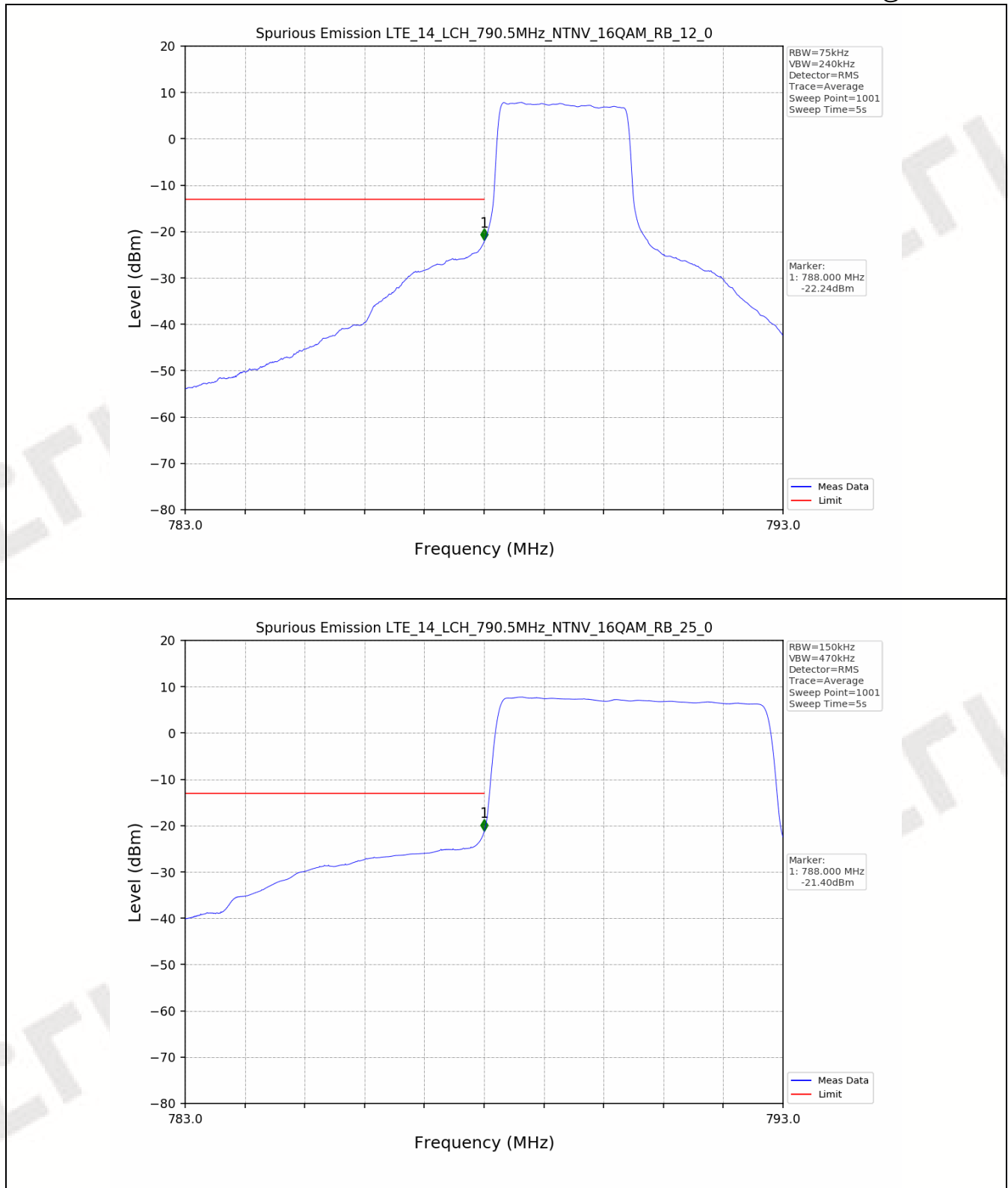


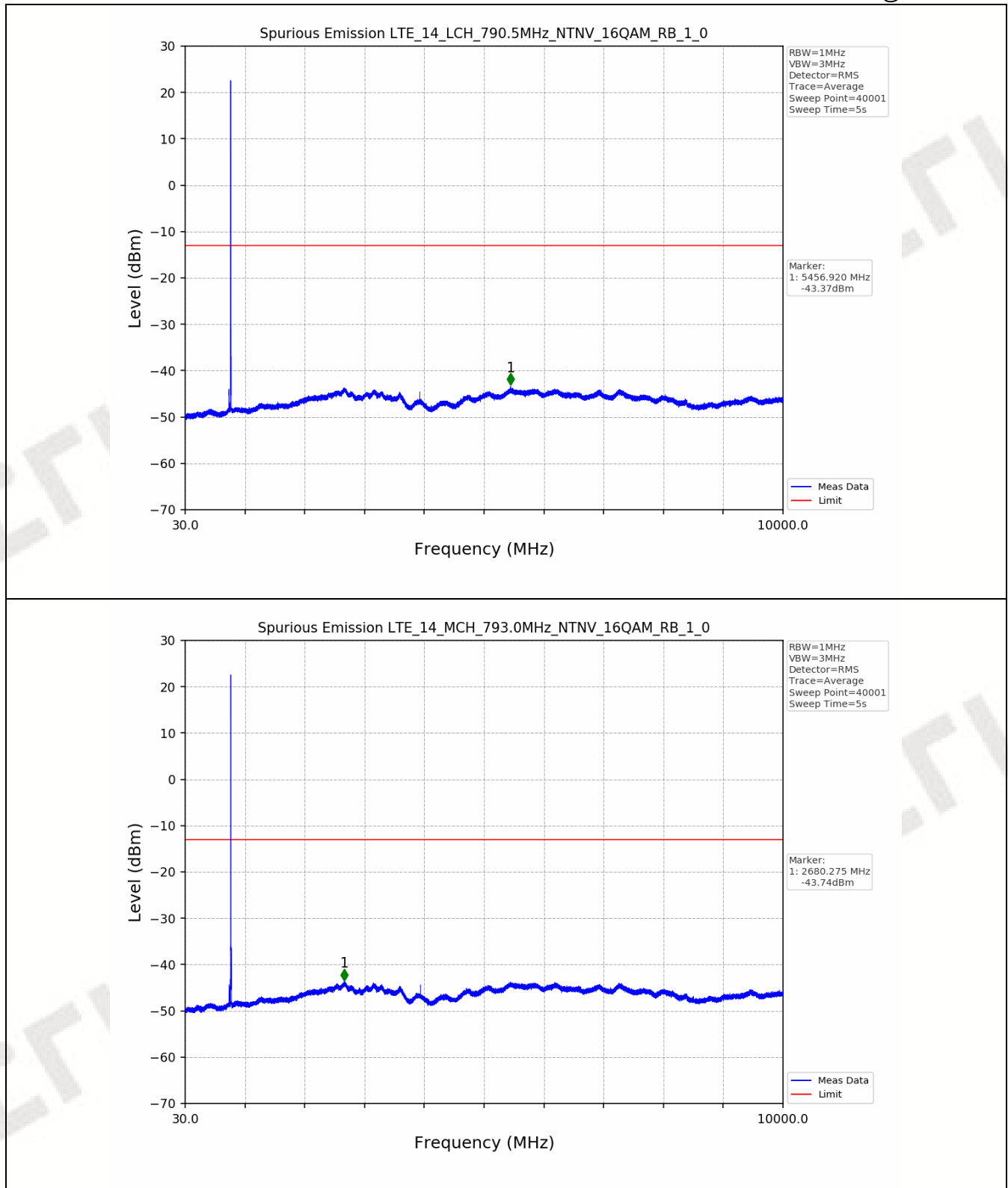


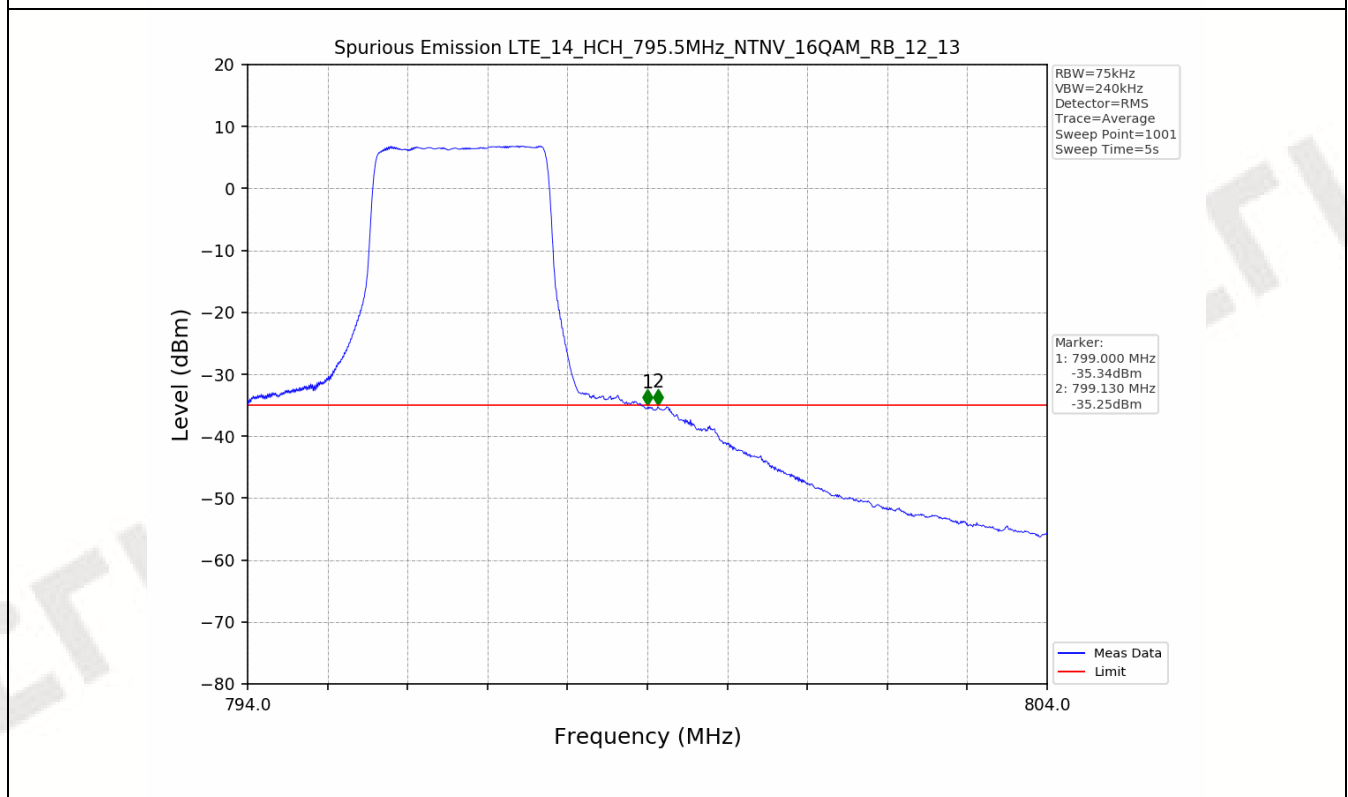
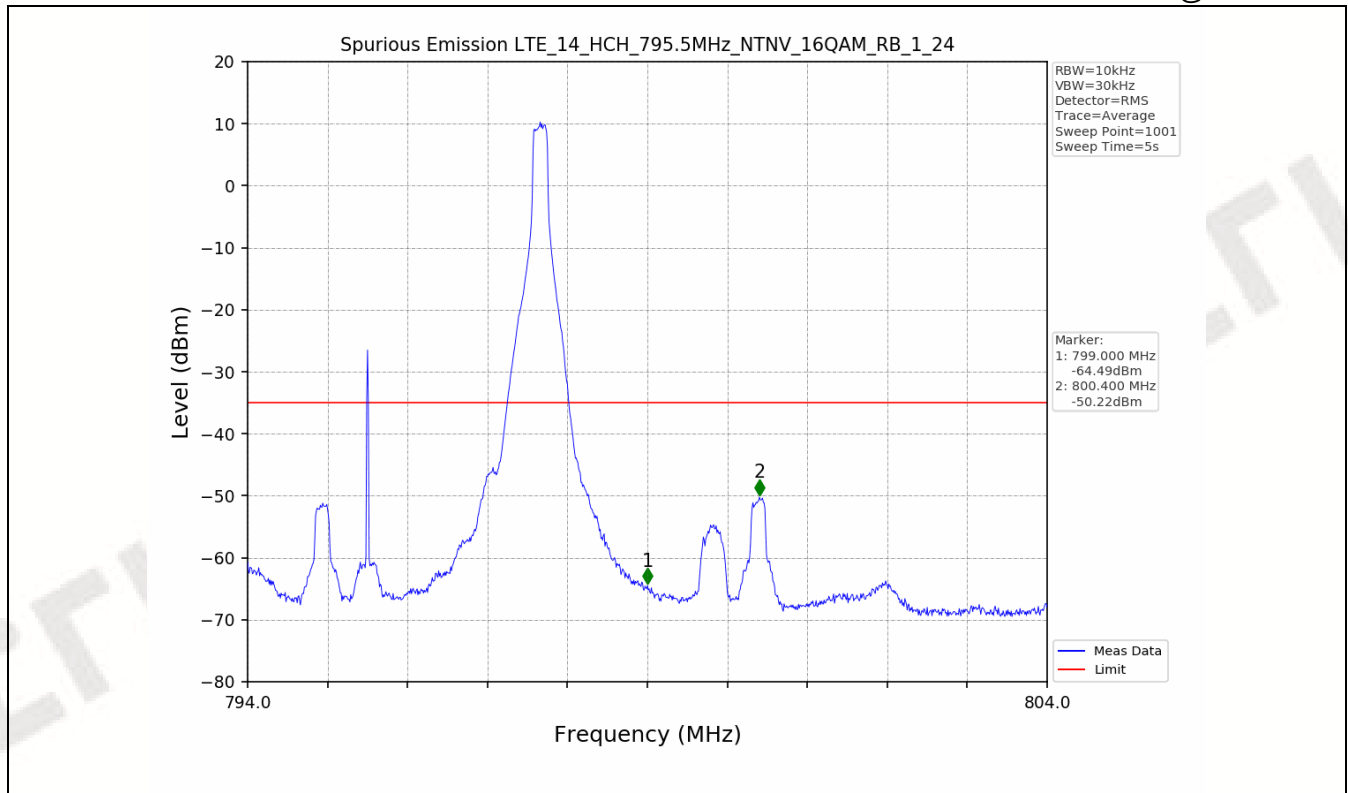
6. Spurious Emission

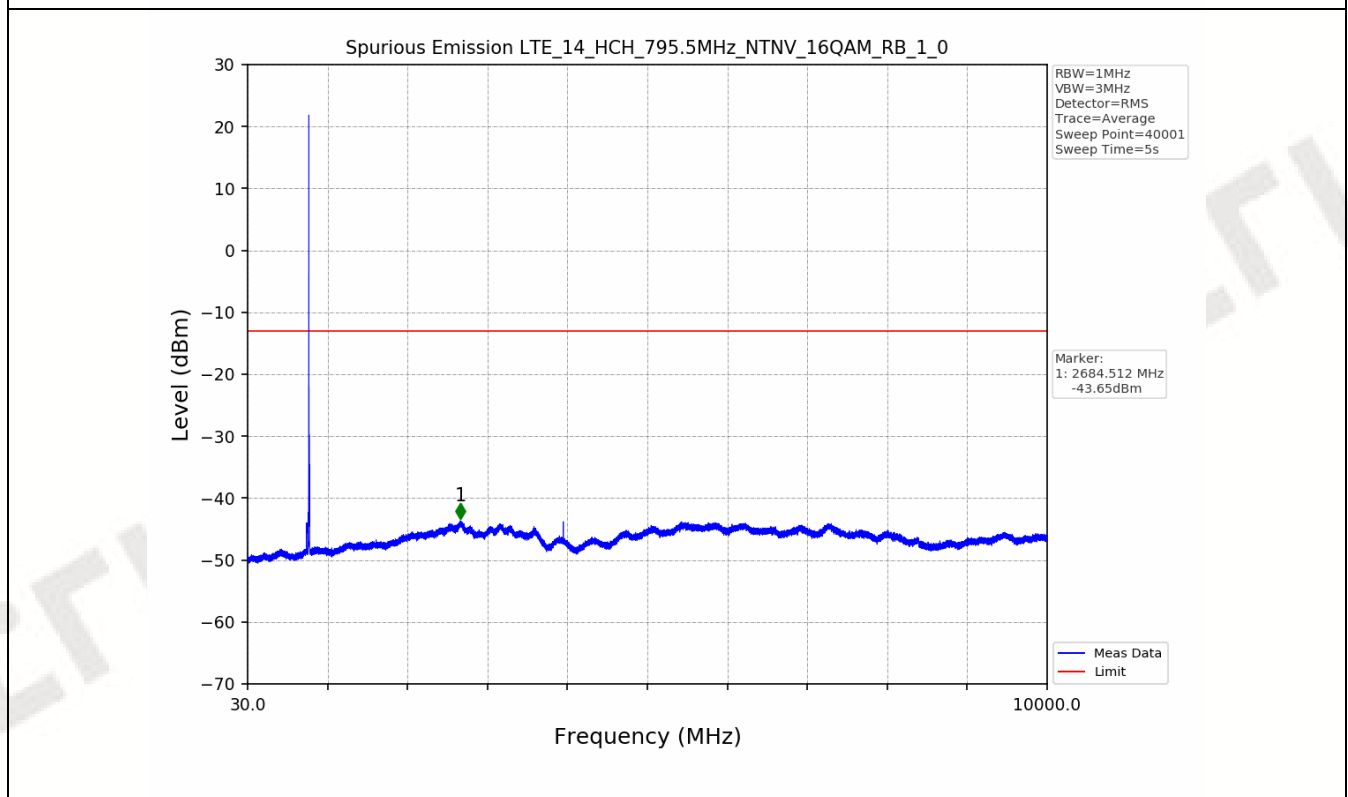
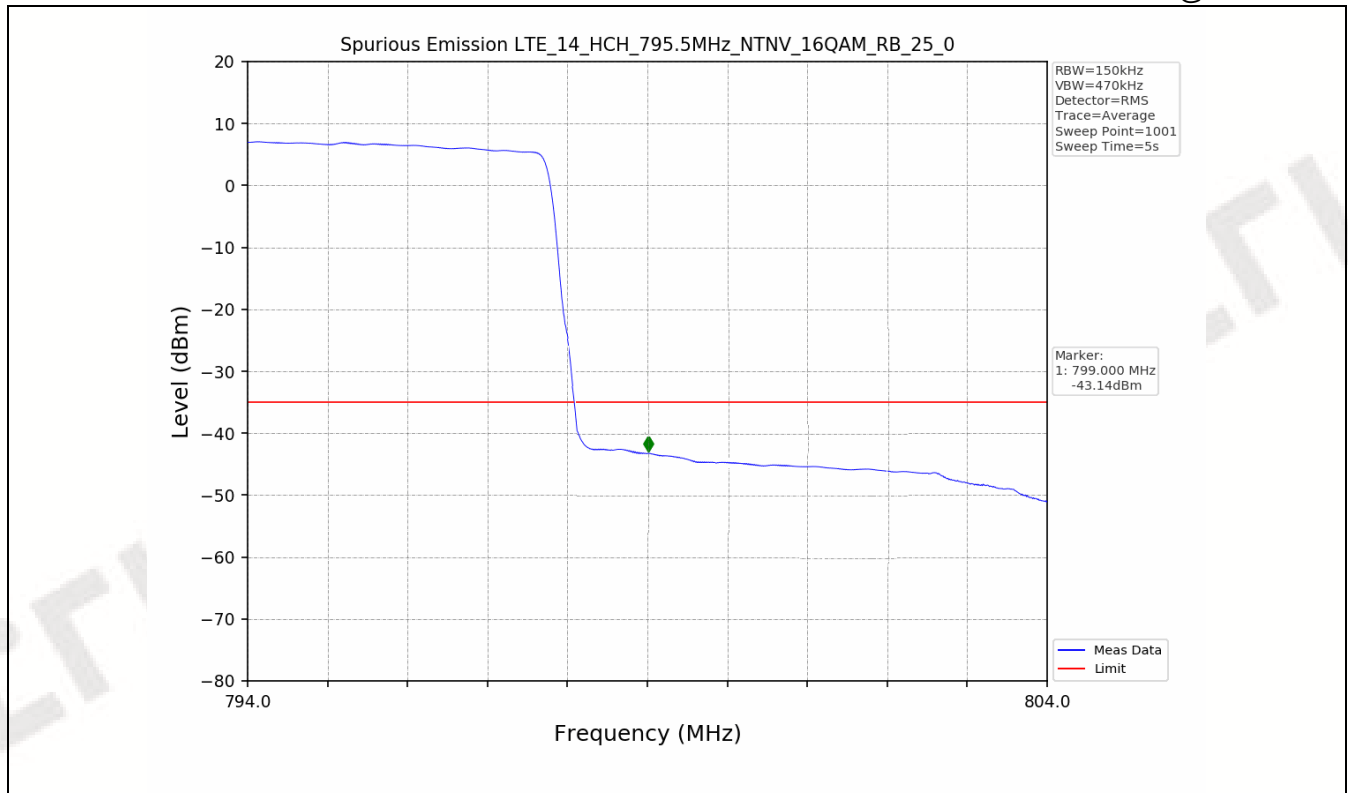
6.1 Test Graph

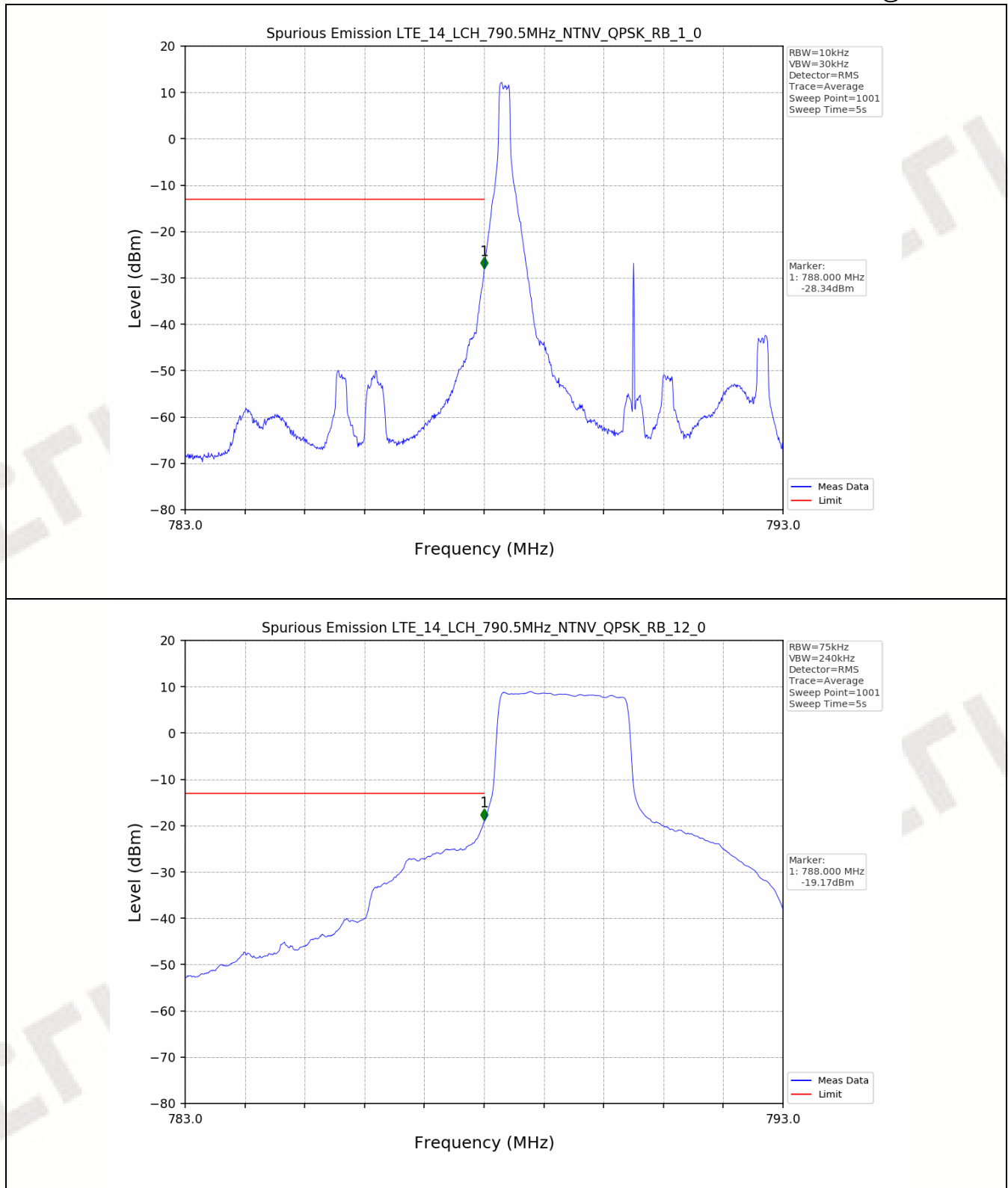


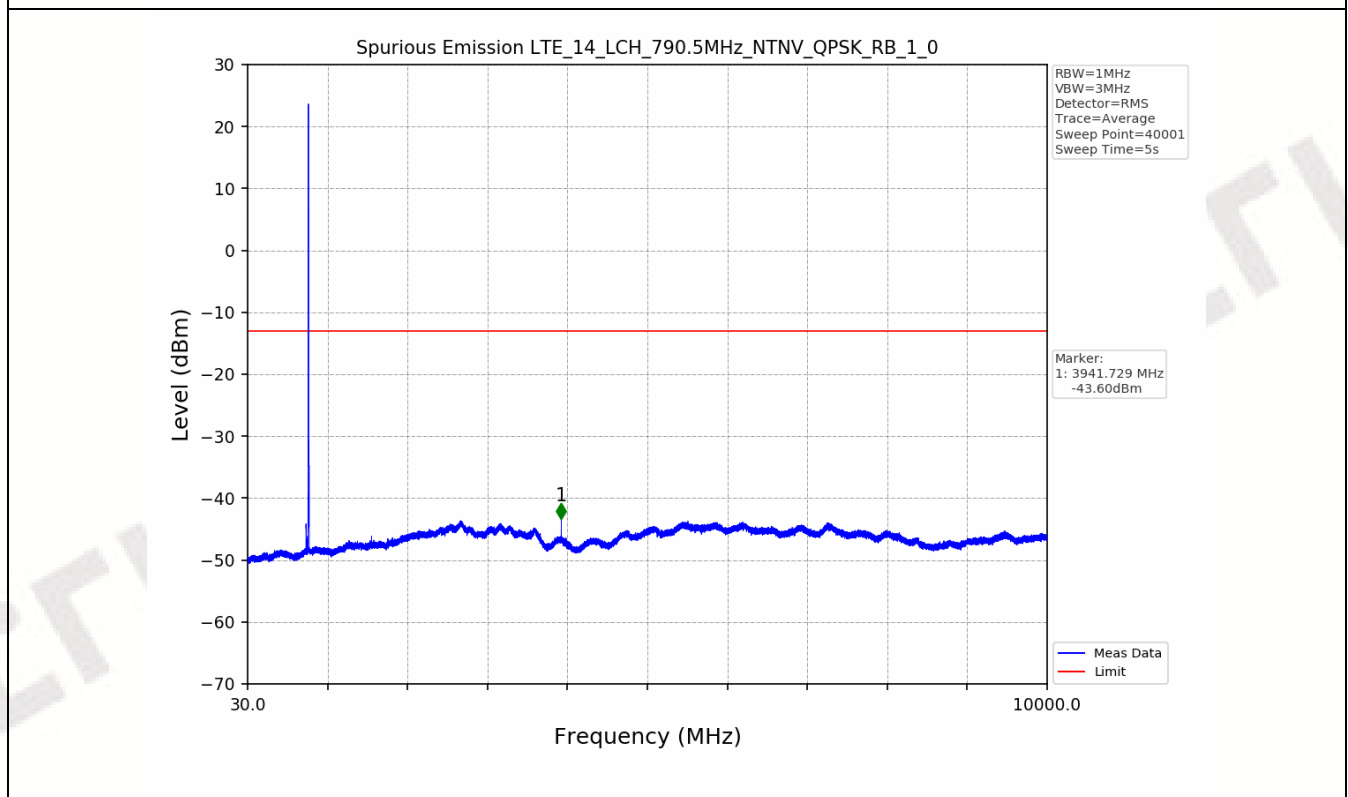
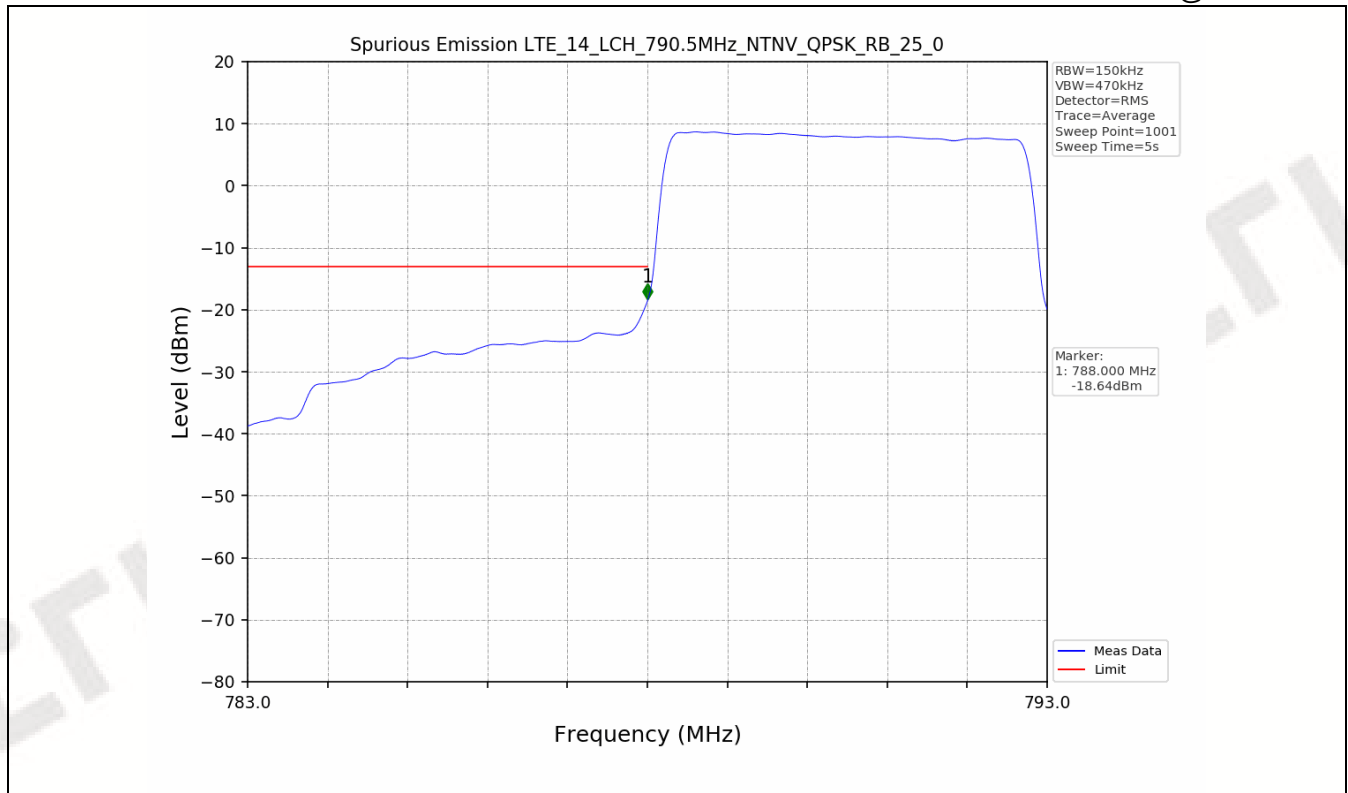


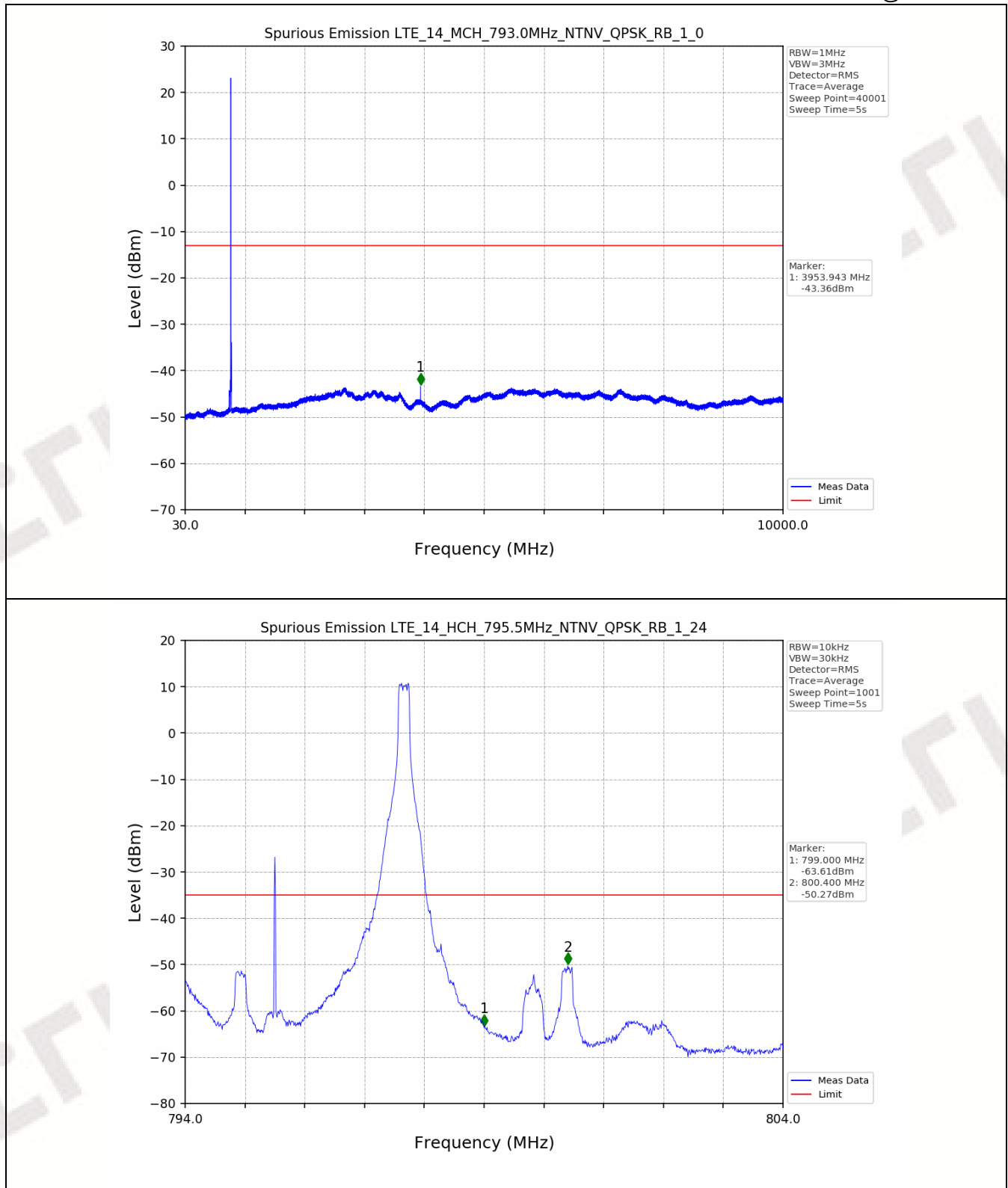


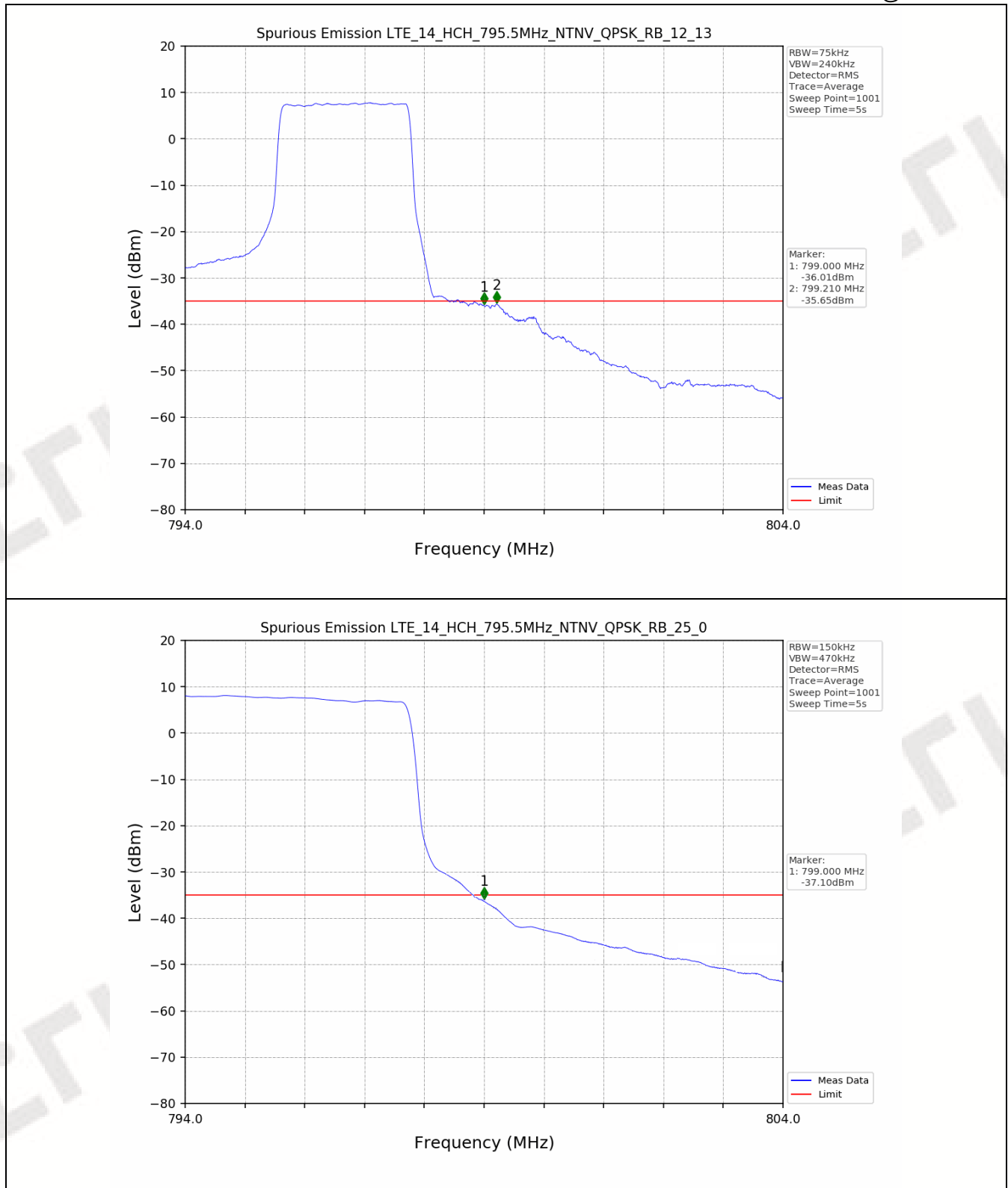


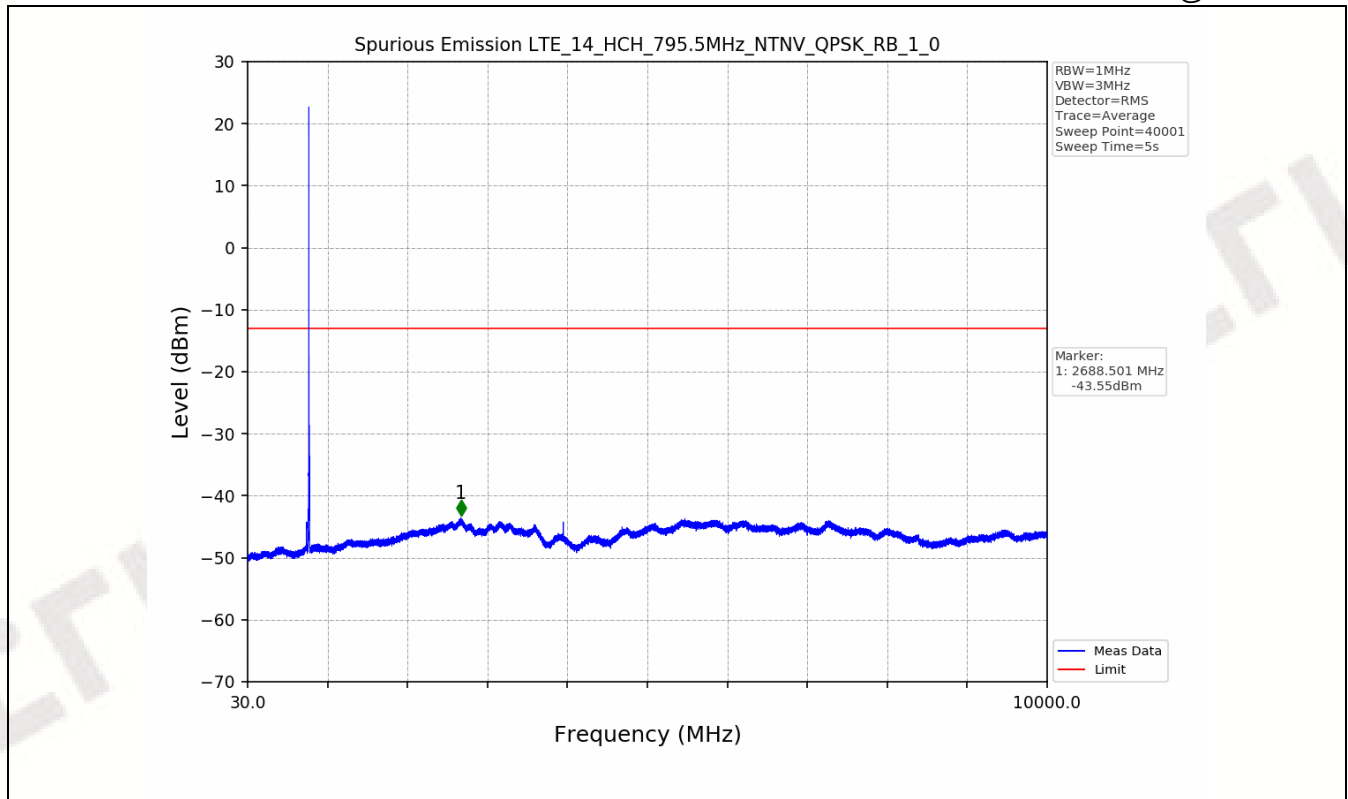














6.1 Test Graph

