





6.2.1.1.2.3 Test Channel = HCH

6.2.1.1.2.3.1 Test RB = RB1#0



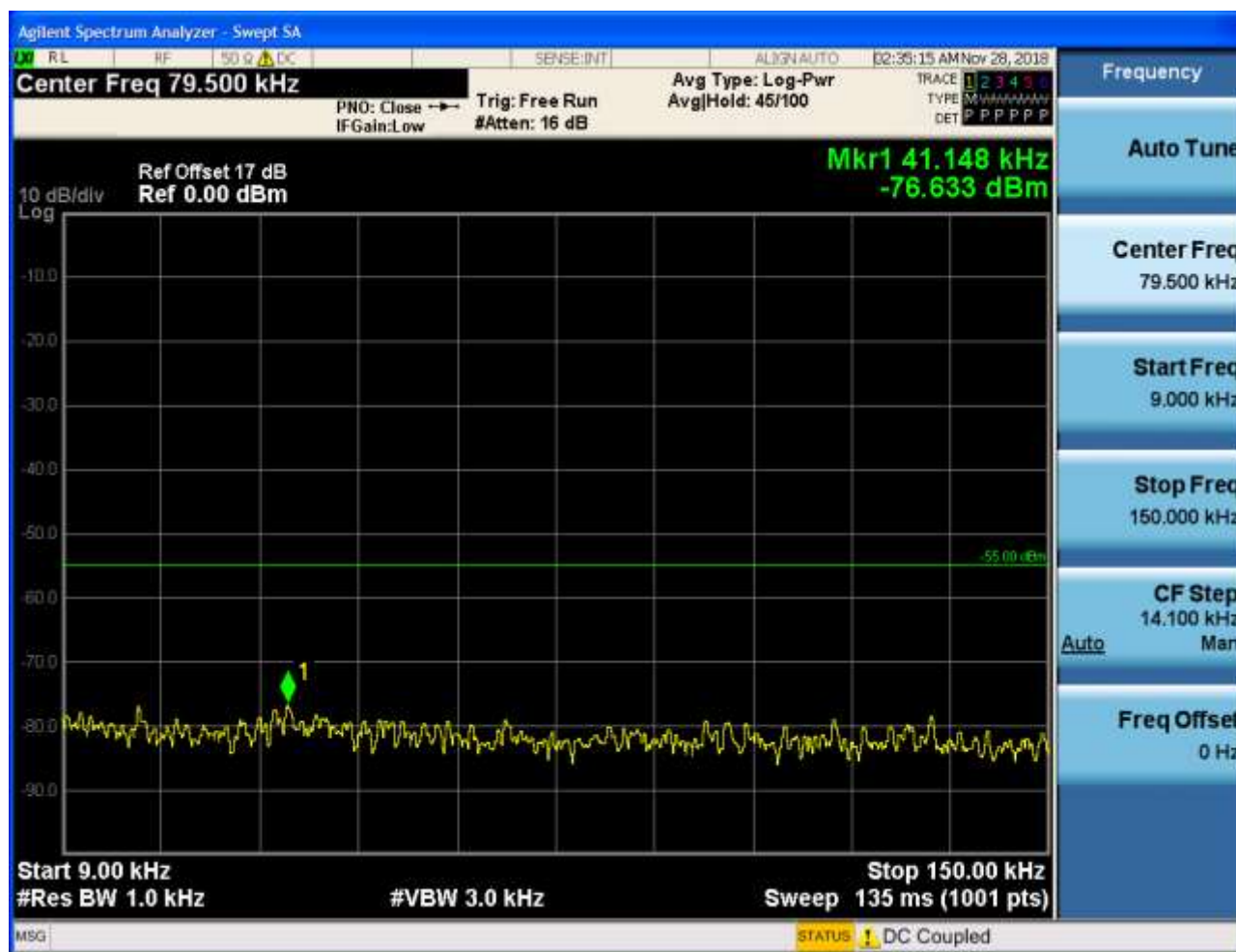




6.2.1.1.3 Test Bandwidth = 15

6.2.1.1.3.1 Test Channel = LCH

6.2.1.1.3.1.1 Test RB = RB1#0

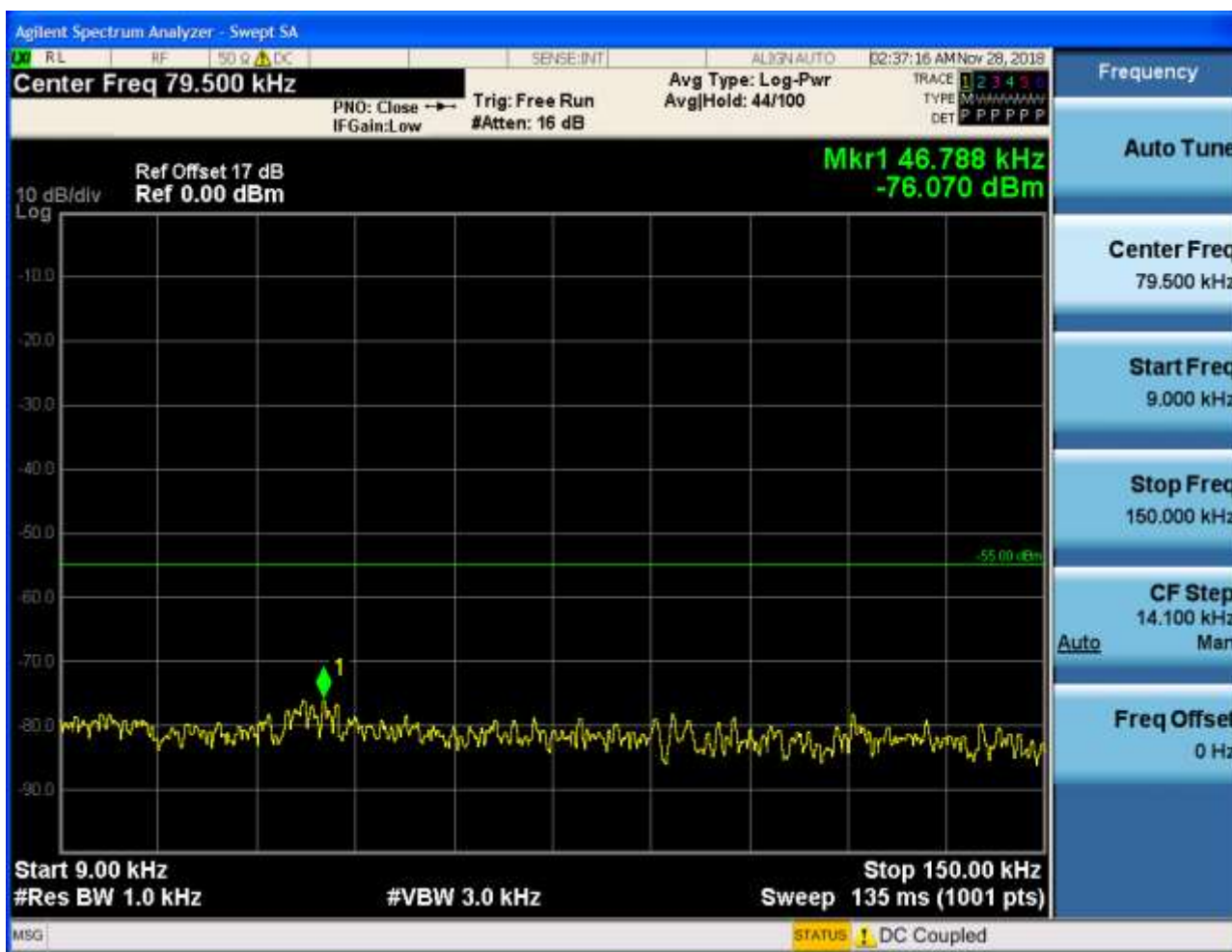






6.2.1.1.3.2 Test Channel = MCH

6.2.1.1.3.2.1 Test RB = RB1#0







6.2.1.1.3.3 Test Channel = HCH

6.2.1.1.3.3.1 Test RB = RB1#0







6.2.1.1.4 Test Bandwidth = 20

6.2.1.1.4.1 Test Channel = LCH

6.2.1.1.4.1.1 Test RB = RB1#0

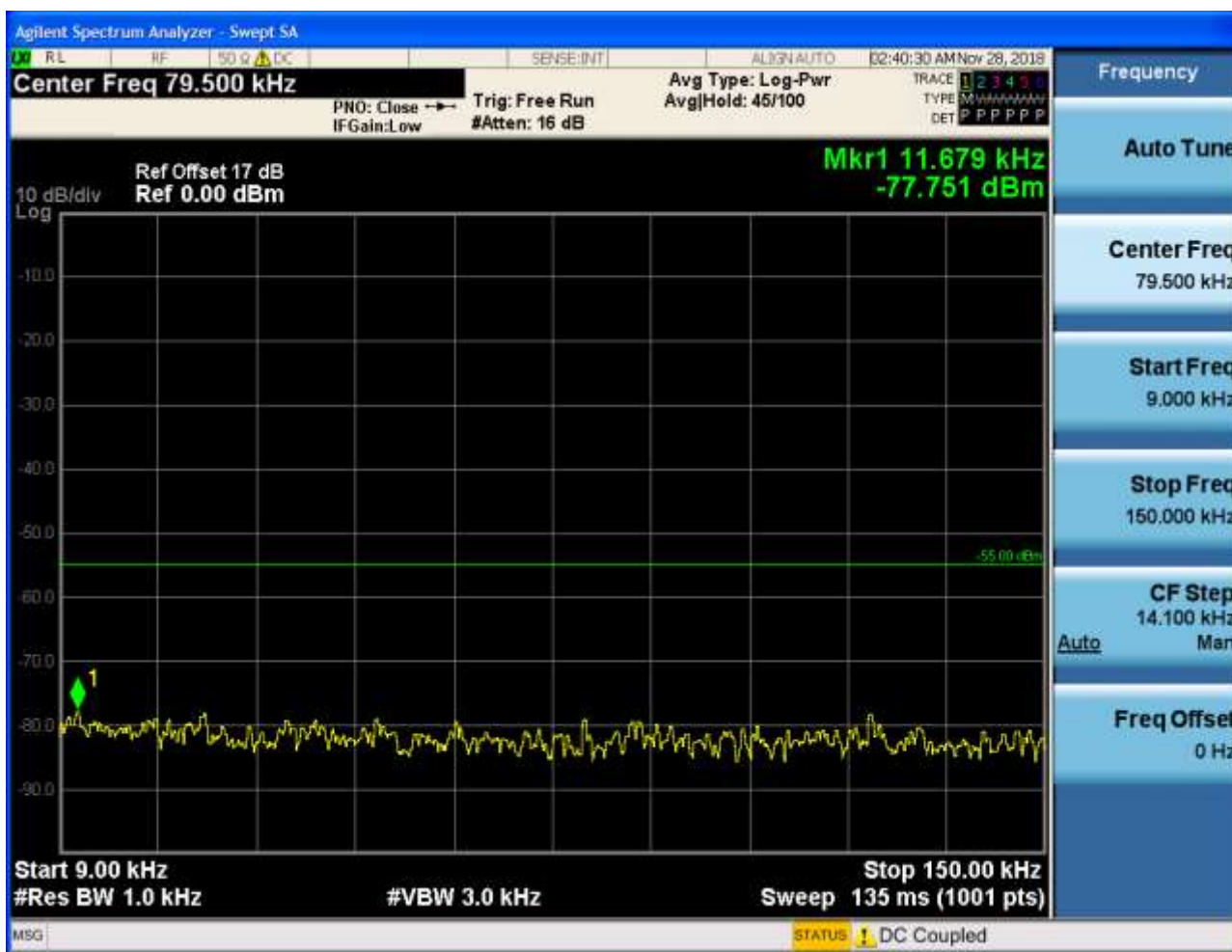






6.2.1.1.4.2 Test Channel = MCH

6.2.1.1.4.2.1 Test RB = RB1#0

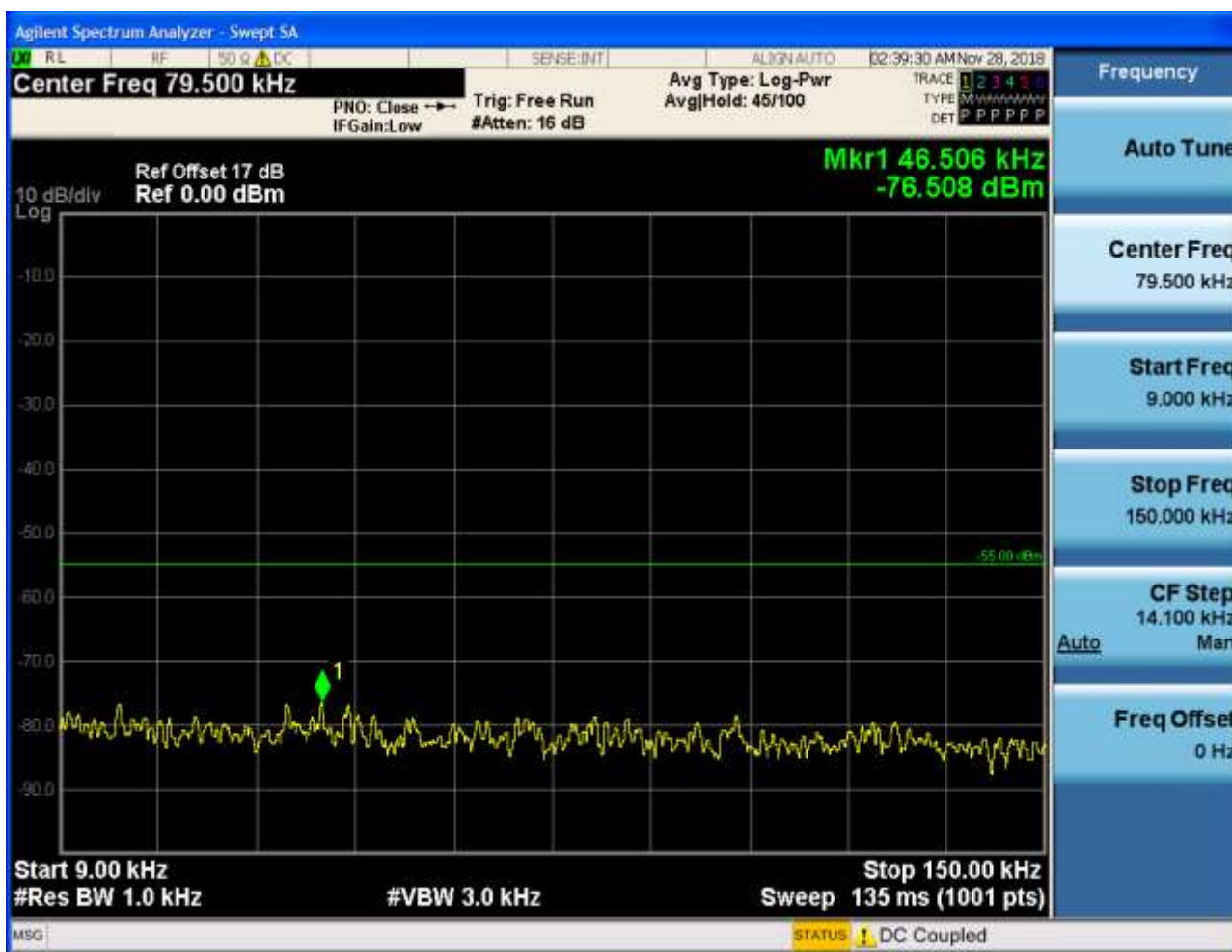






6.2.1.1.4.3 Test Channel = HCH

6.2.1.1.4.3.1 Test RB = RB1#0





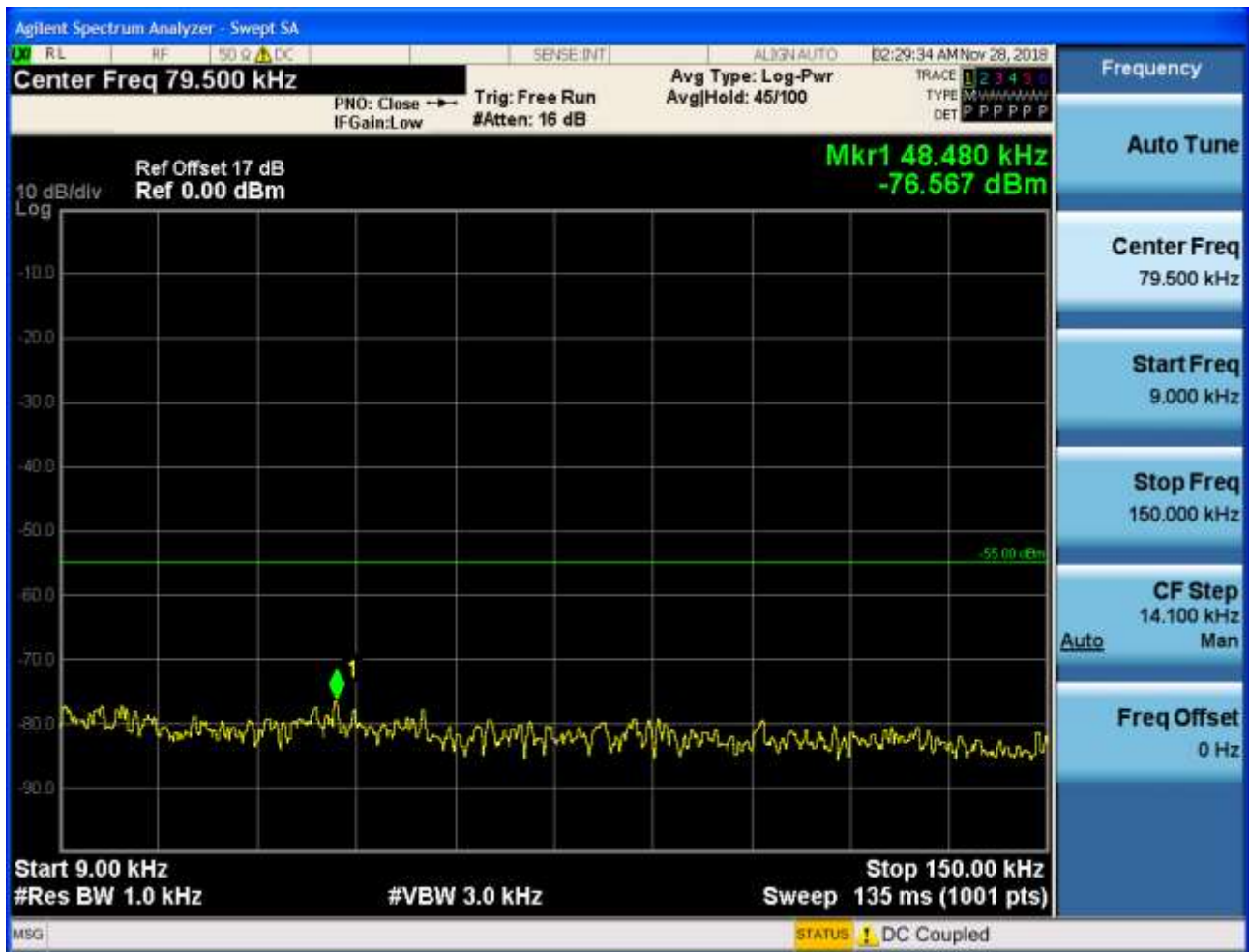


6.2.1.2 Test Mode = LTE/TM2

6.2.1.2.1 Test Bandwidth = 5

6.2.1.2.1.1 Test Channel = LCH

6.2.1.2.1.1.1 Test RB = RB1#0







6.2.1.2.1.2 Test Channel = MCH

6.2.1.2.1.2.1 Test RB = RB1#0

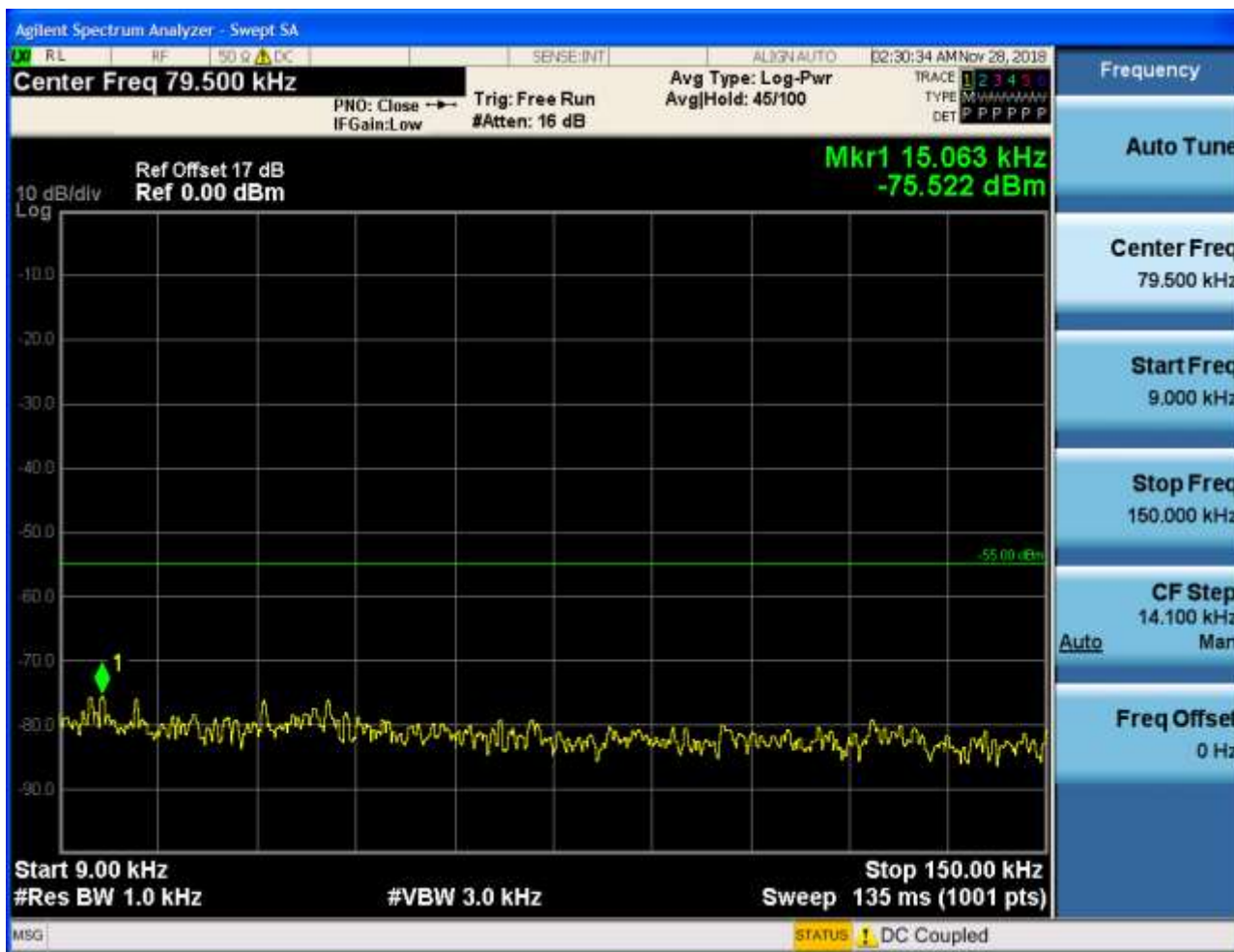


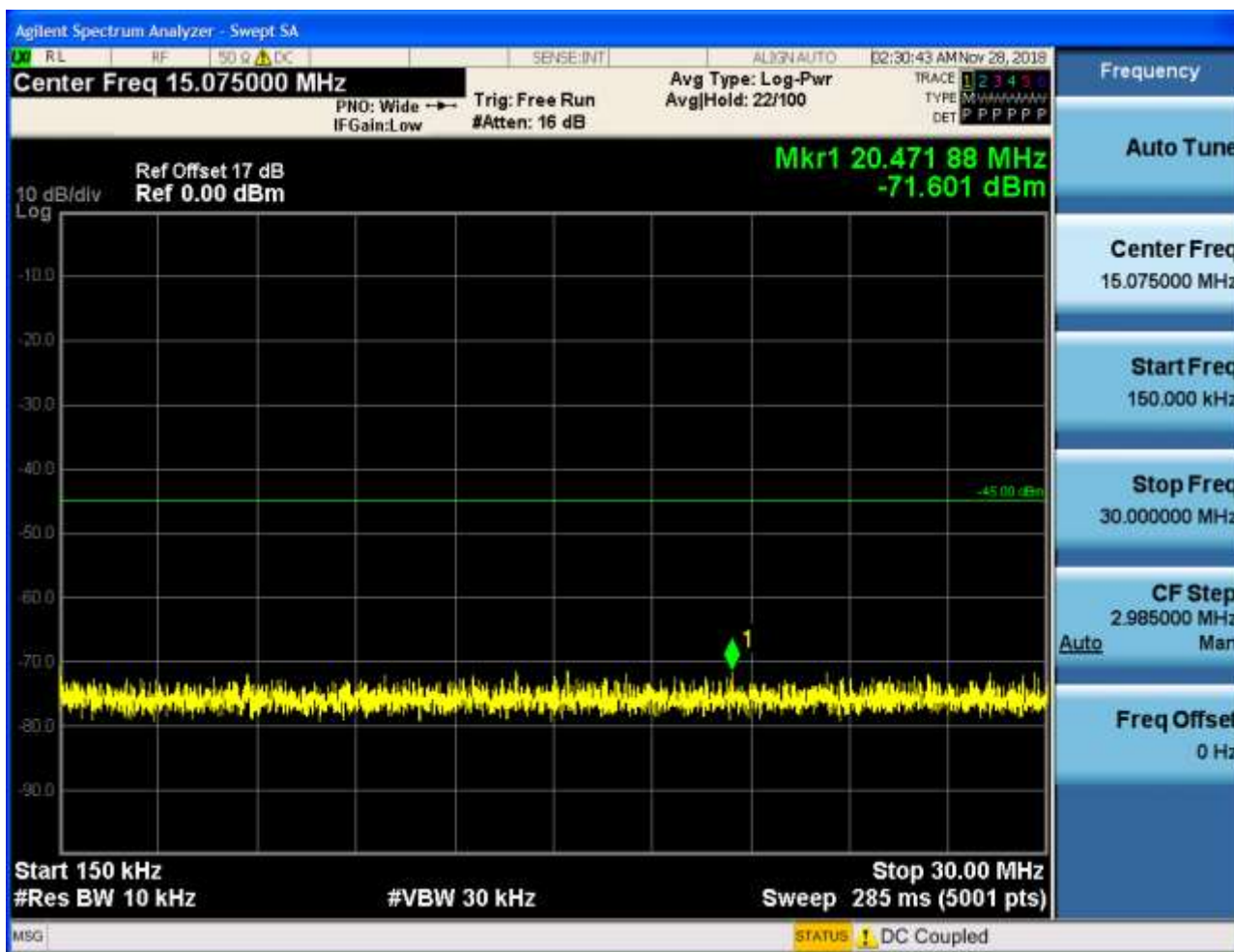




6.2.1.2.1.3 Test Channel = HCH

6.2.1.2.1.3.1 Test RB = RB1#0



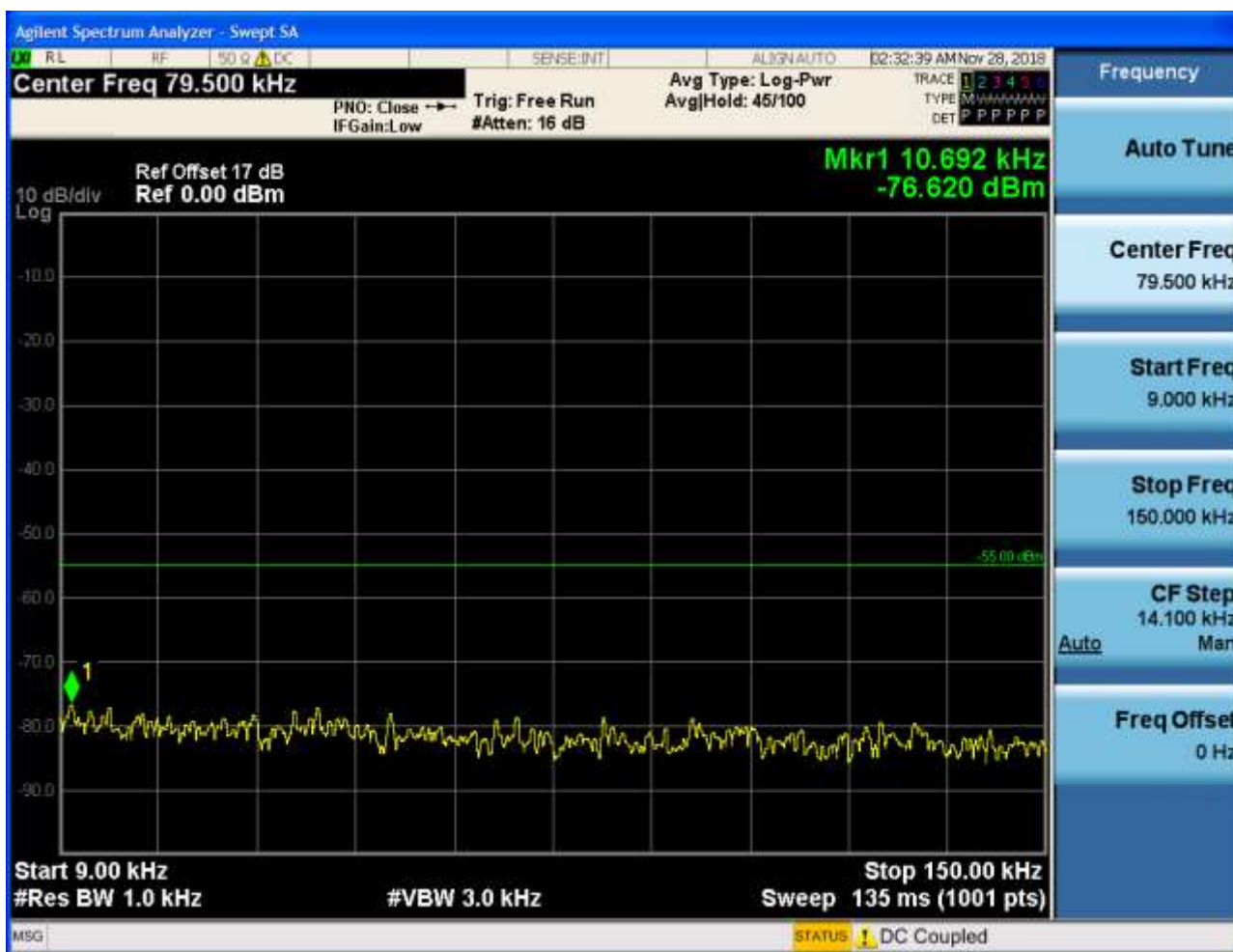




6.2.1.2.2 Test Bandwidth = 10

6.2.1.2.2.1 Test Channel = LCH

6.2.1.2.2.1.1 Test RB = RB1#0

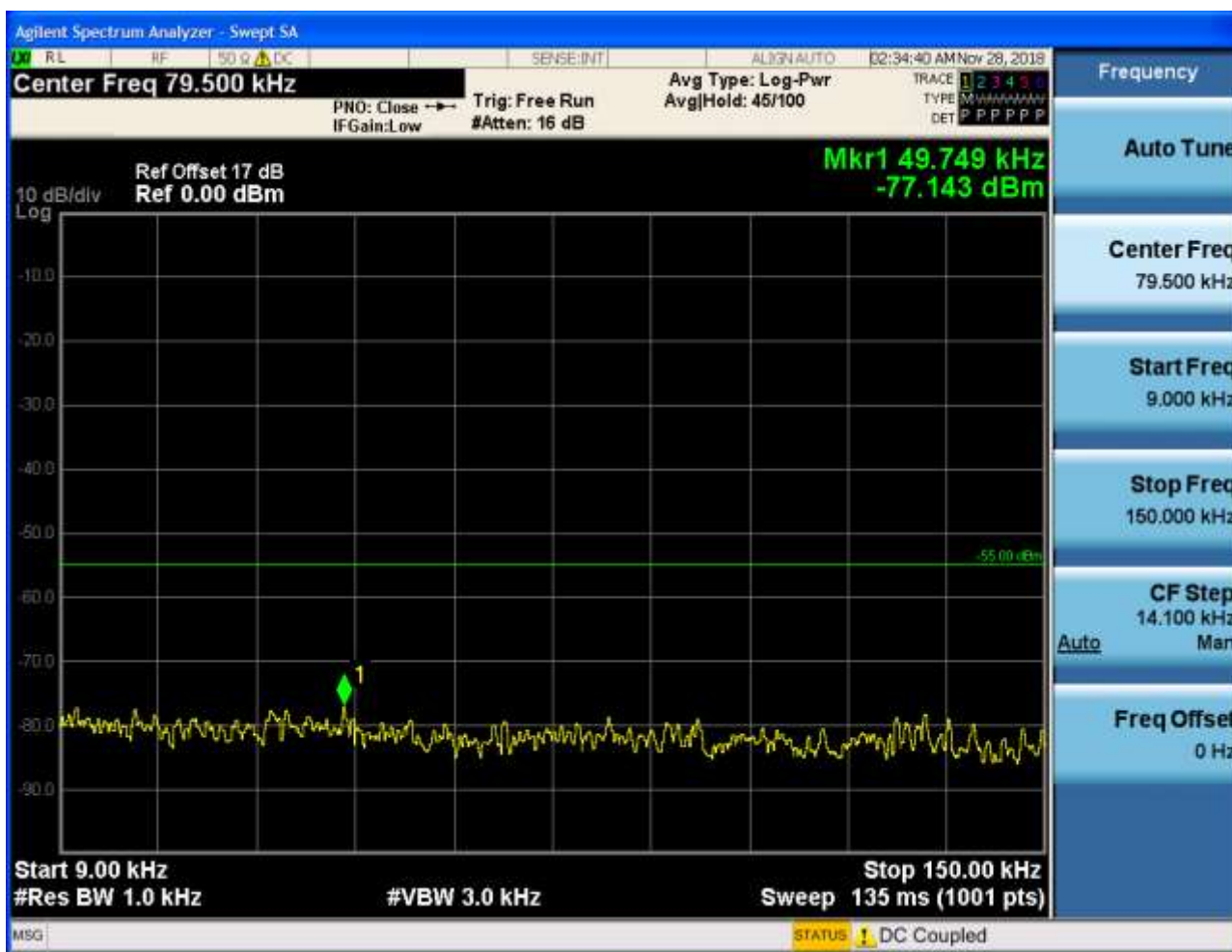






6.2.1.2.2.2 Test Channel = MCH

6.2.1.2.2.2.1 Test RB = RB1#0

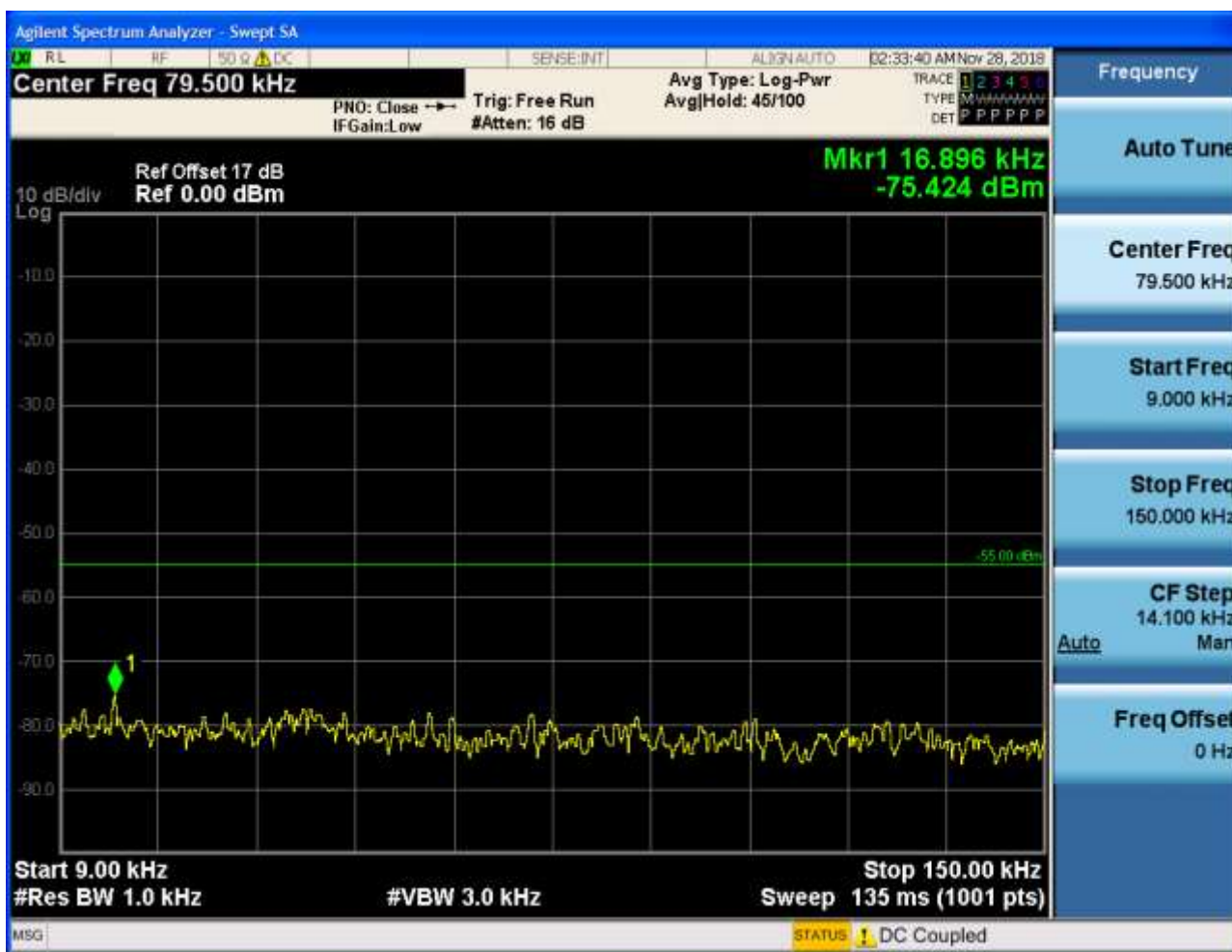






6.2.1.2.2.3 Test Channel = HCH

6.2.1.2.2.3.1 Test RB = RB1#0



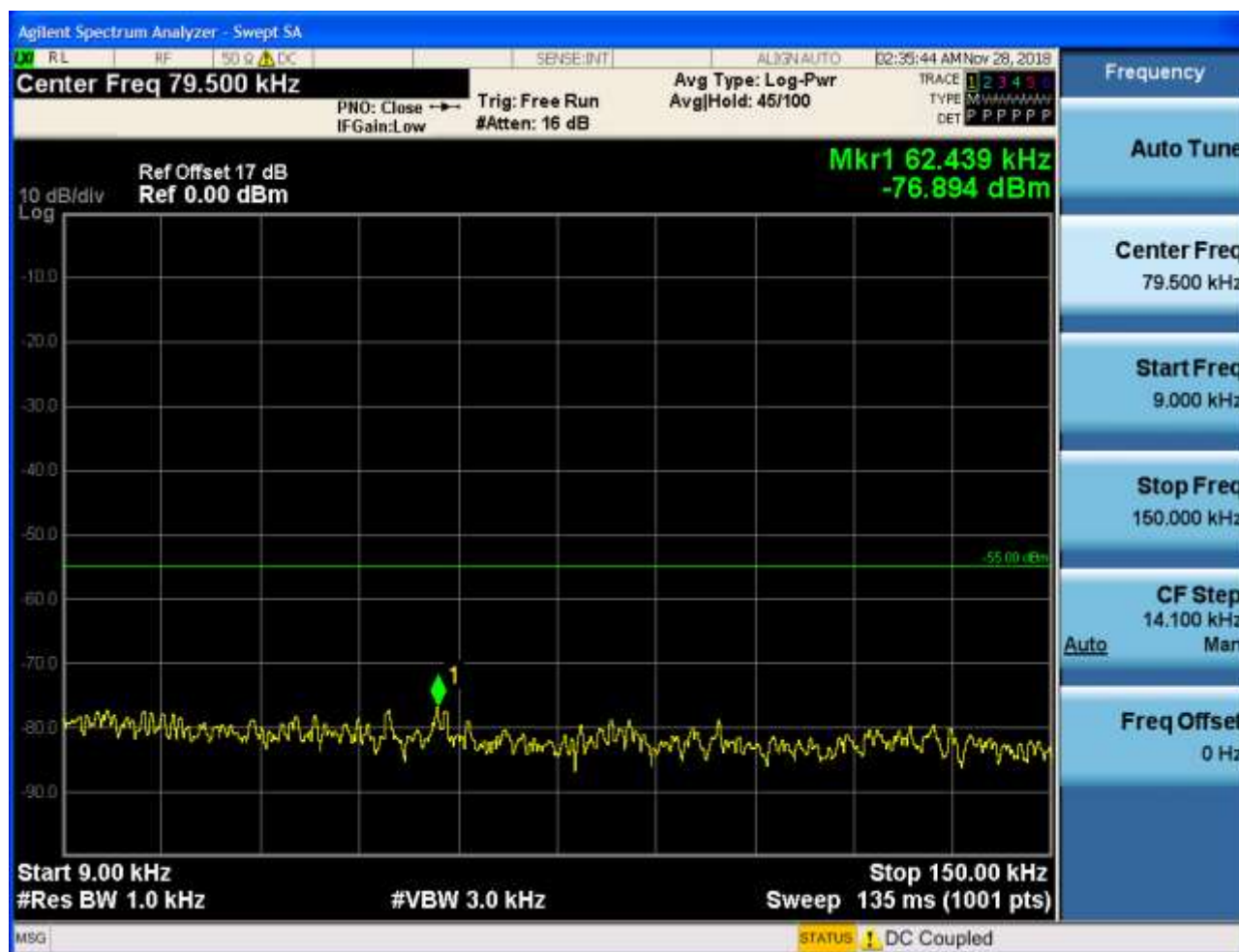




6.2.1.2.3 Test Bandwidth = 15

6.2.1.2.3.1 Test Channel = LCH

6.2.1.2.3.1.1 Test RB = RB1#0

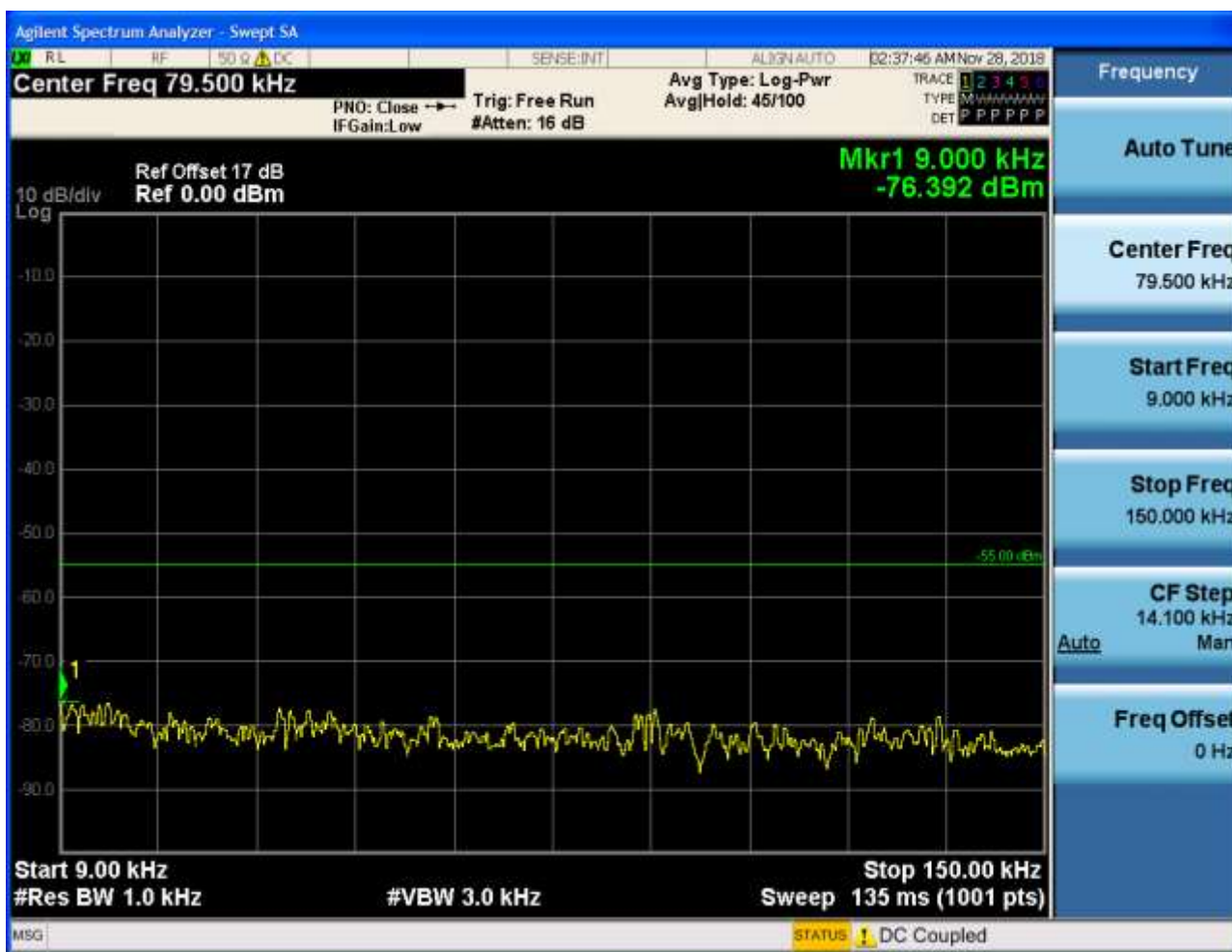






6.2.1.2.3.2 Test Channel = MCH

6.2.1.2.3.2.1 Test RB = RB1#0







6.2.1.2.3.3 Test Channel = HCH

6.2.1.2.3.3.1 Test RB = RB1#0



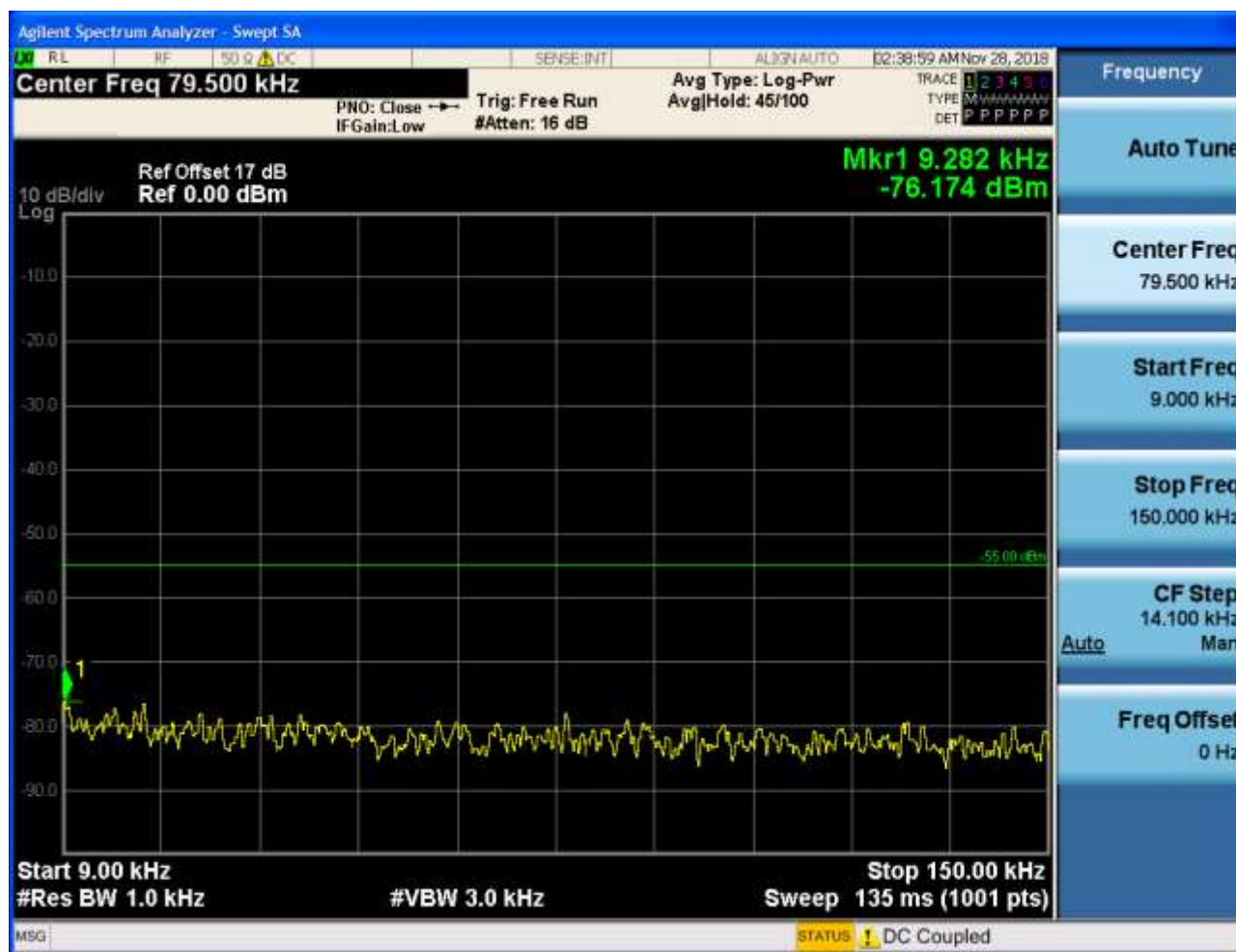




6.2.1.2.4 Test Bandwidth = 20

6.2.1.2.4.1 Test Channel = LCH

6.2.1.2.4.1.1 Test RB = RB1#0

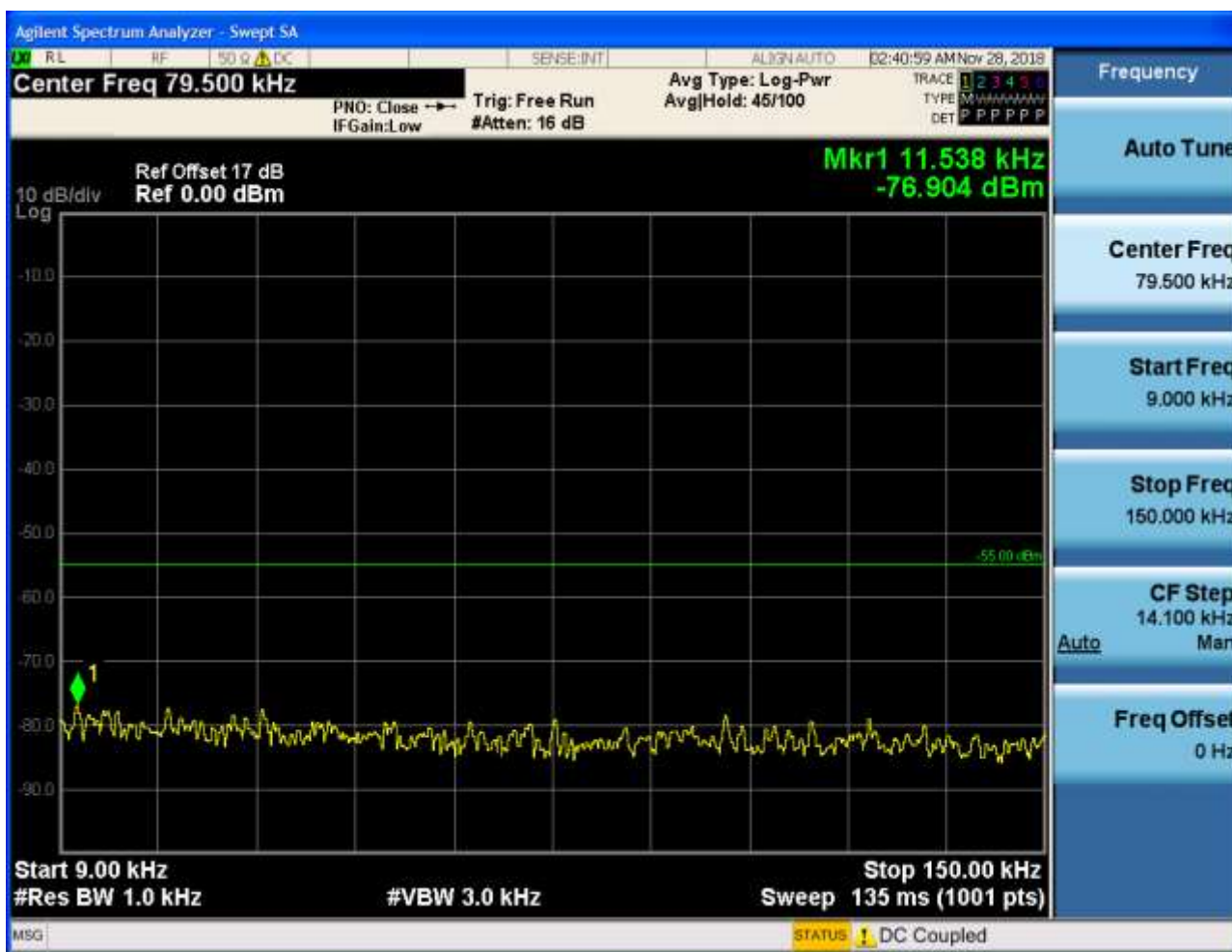






6.2.1.2.4.2 Test Channel = MCH

6.2.1.2.4.2.1 Test RB = RB1#0

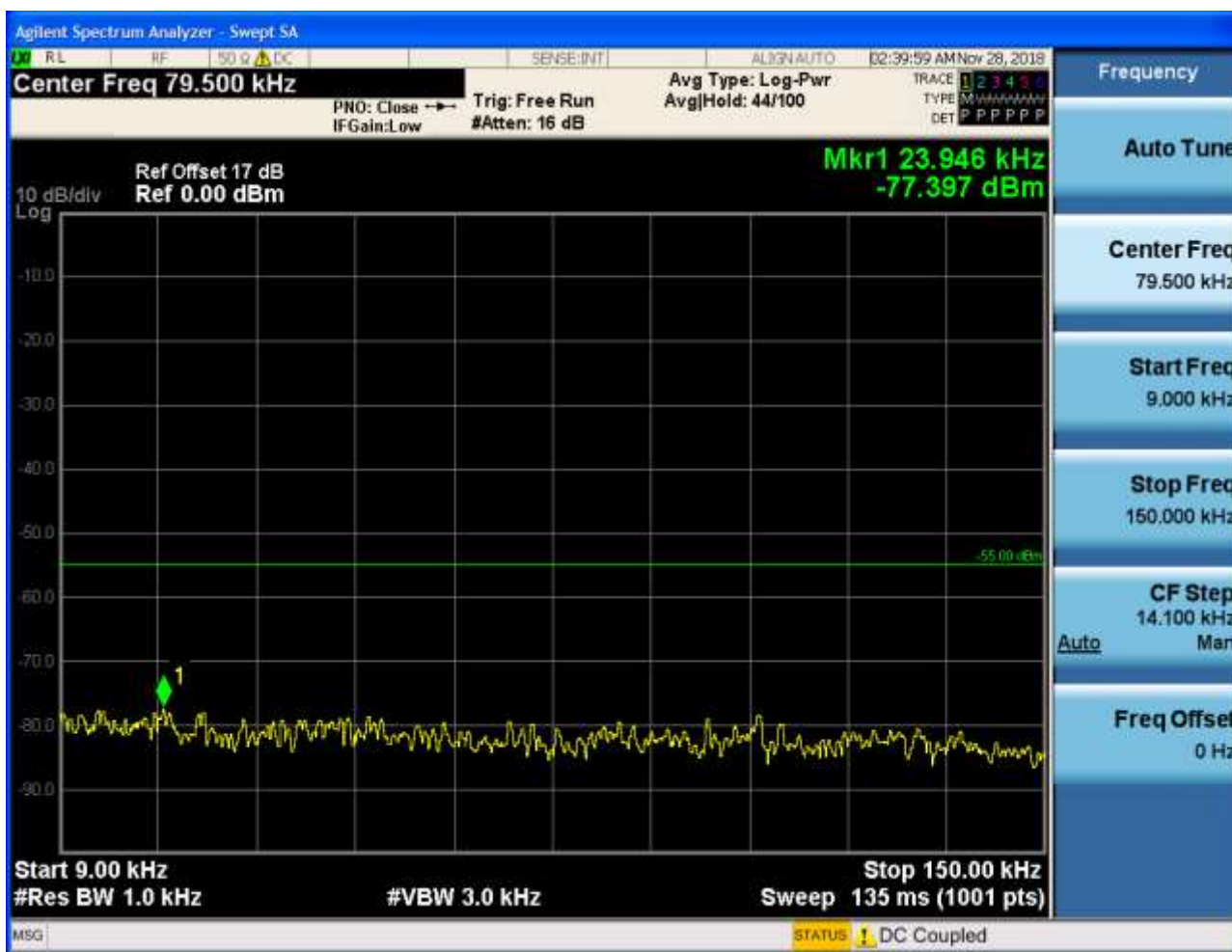


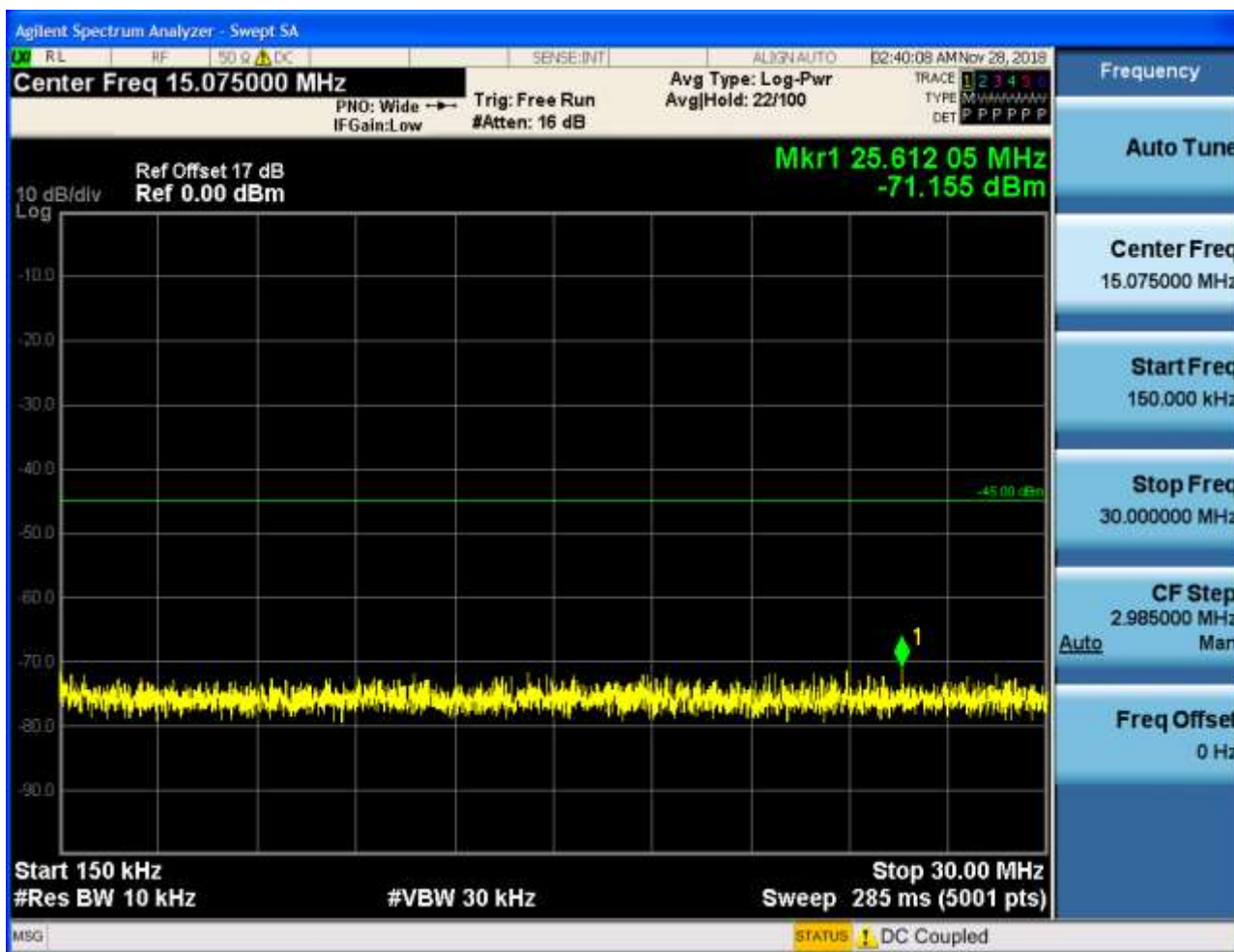




6.2.1.2.4.3 Test Channel = HCH

6.2.1.2.4.3.1 Test RB = RB1#0







7Appendix_G: Field Strength of Spurious Radiation

Note: We tested all modes, but the data presented below is the worst case.

9kHz~150kHz, RBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, RBW = 9kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

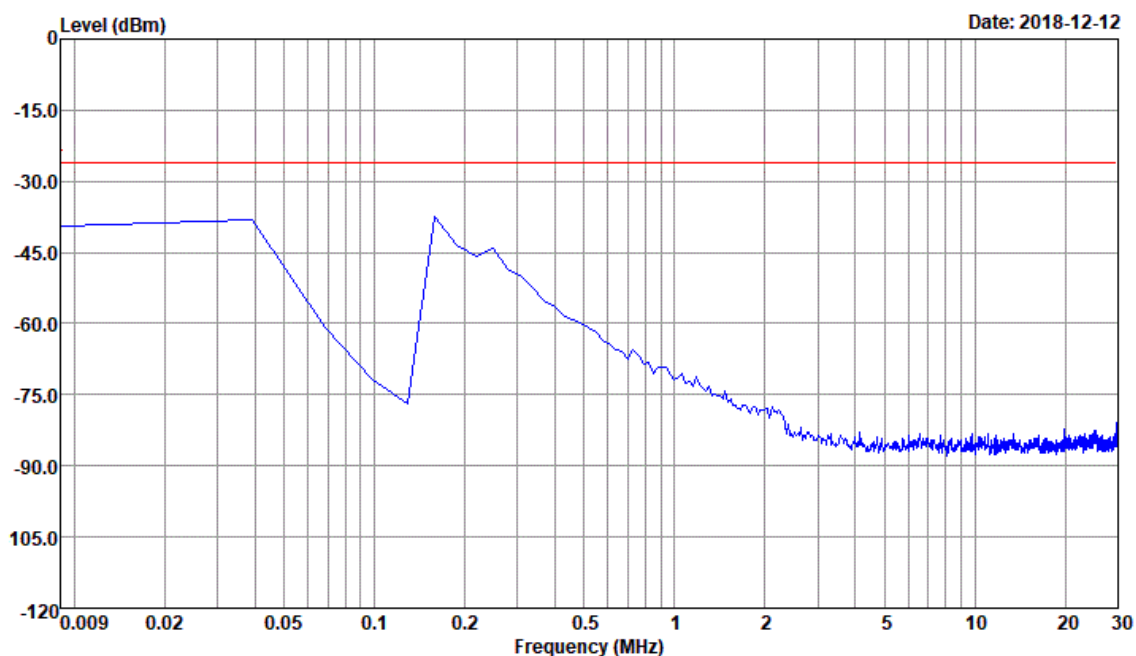
7.1 For LTE

7.1.1 Test Band = Band38_ANT1

7.1.1.1 Test Bandwidth = 5

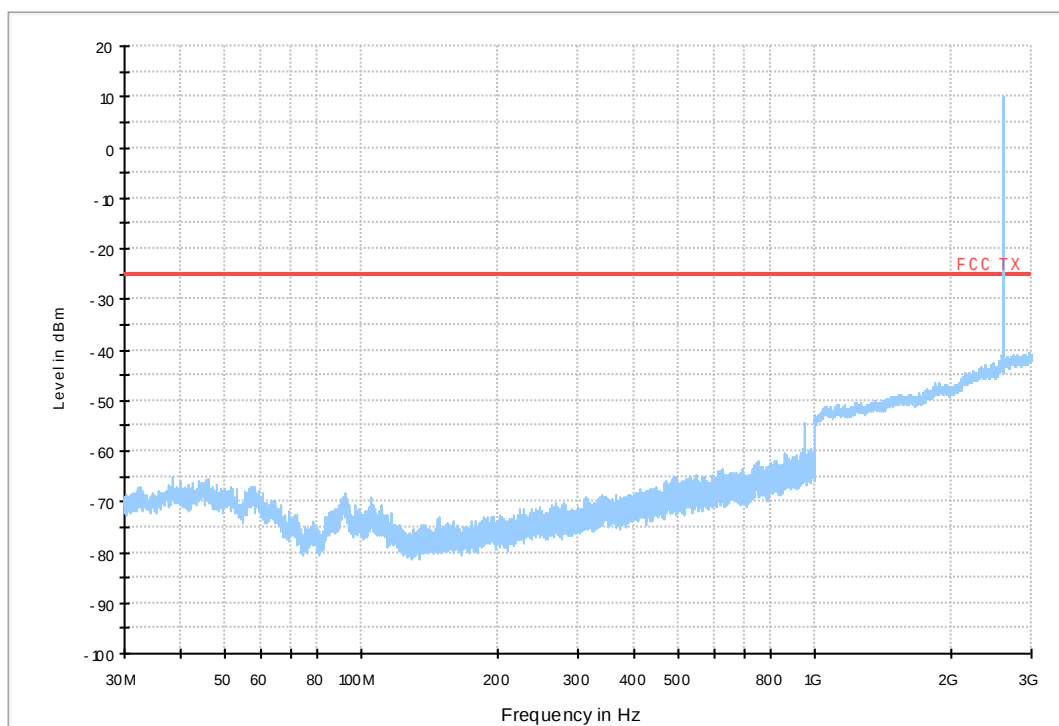


Data: 78

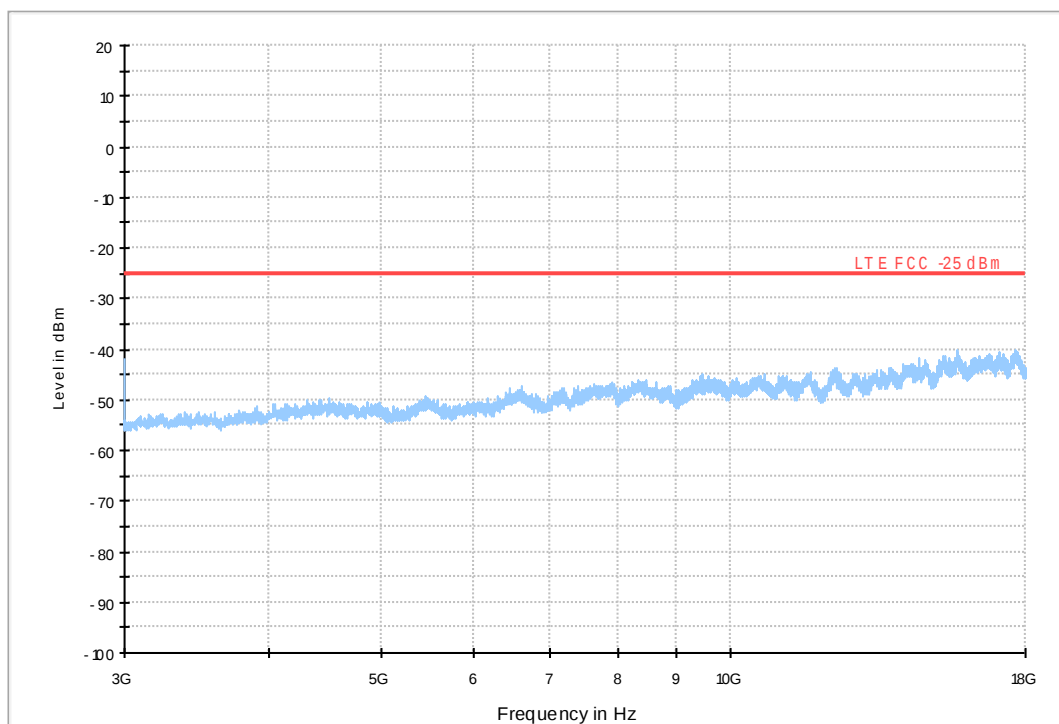


Site : 03CH01-SZ
Condition : -13DBM
: RBW:9.000KHz VBW:30.000KHz

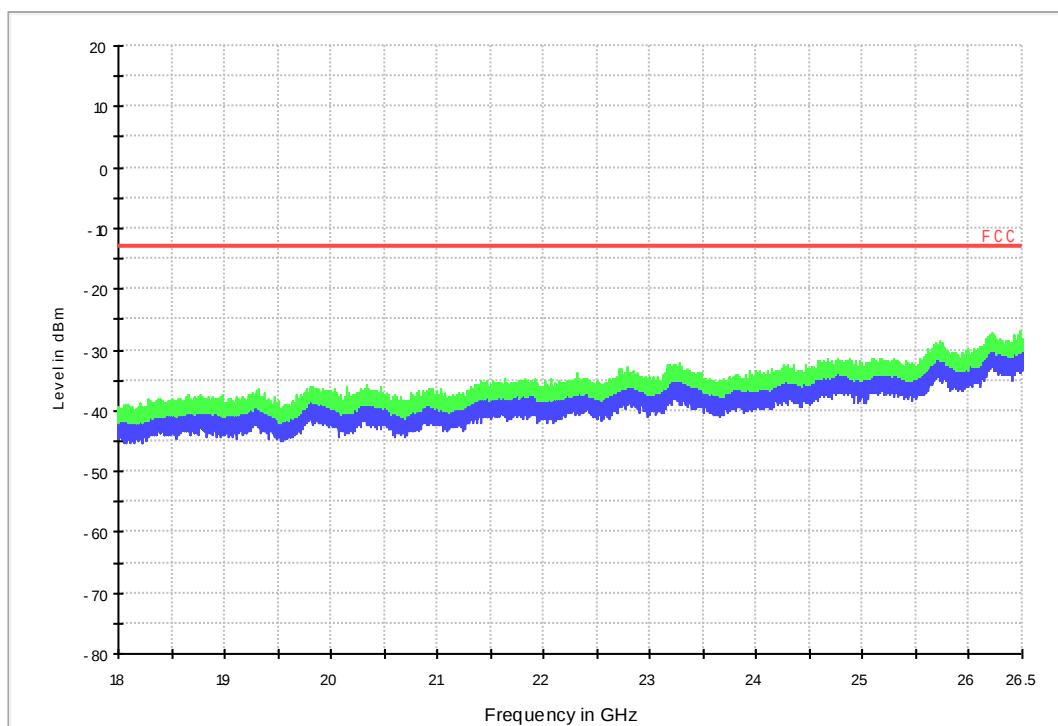
LTETDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



LTETDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



18G~26.5G R SE-T X-DIRECTOR ABOVE 1.5G PK

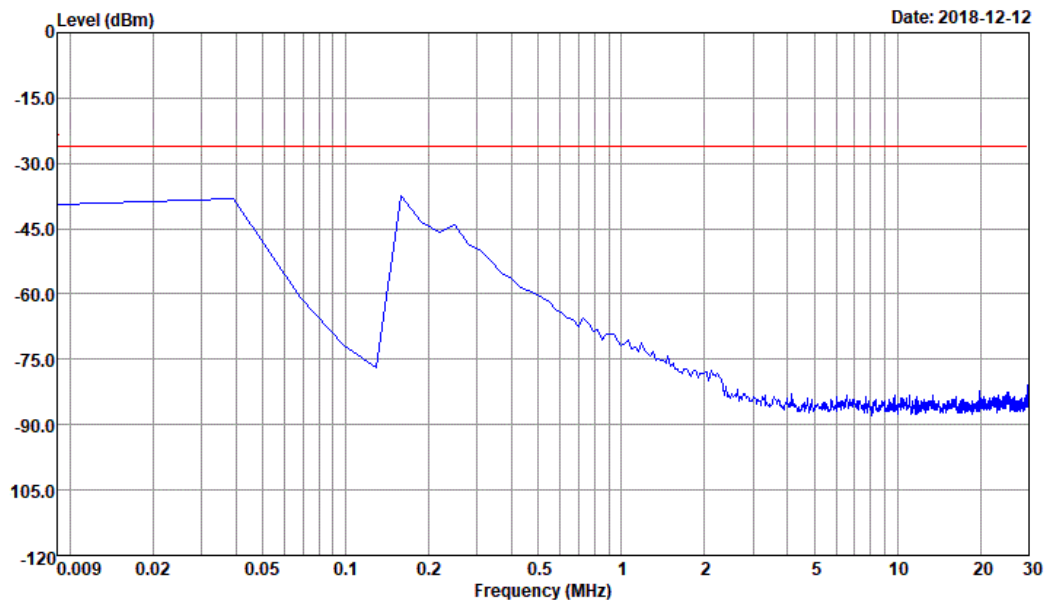


7.1.1.2 Test Bandwidth = 20



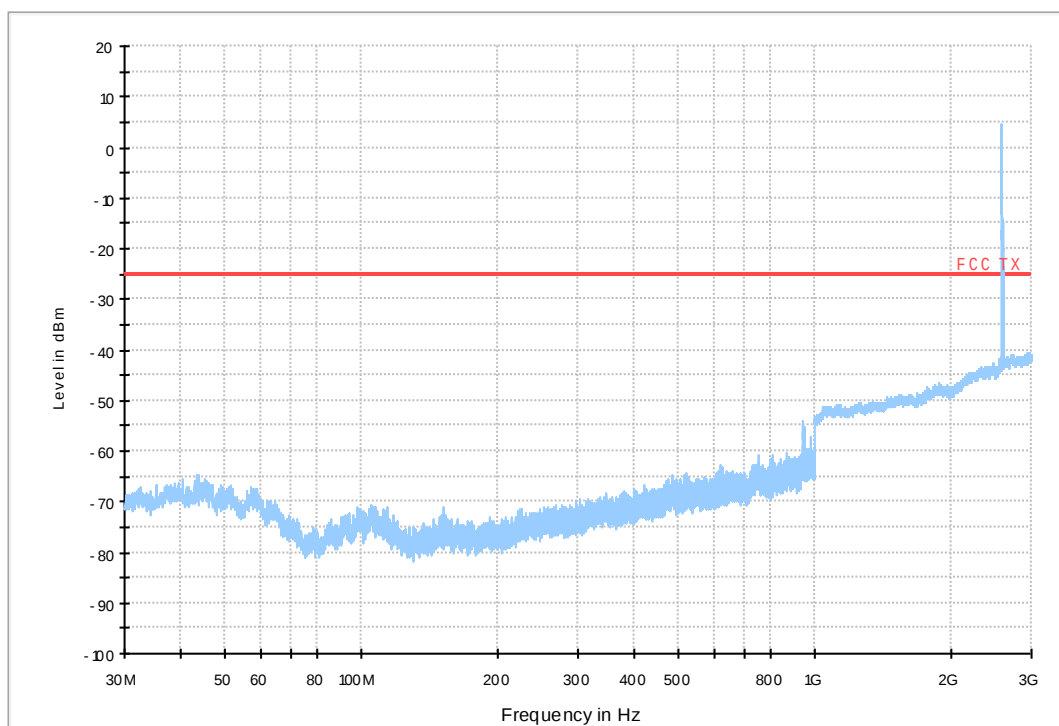
Data: 78

Date: 2018-12-12

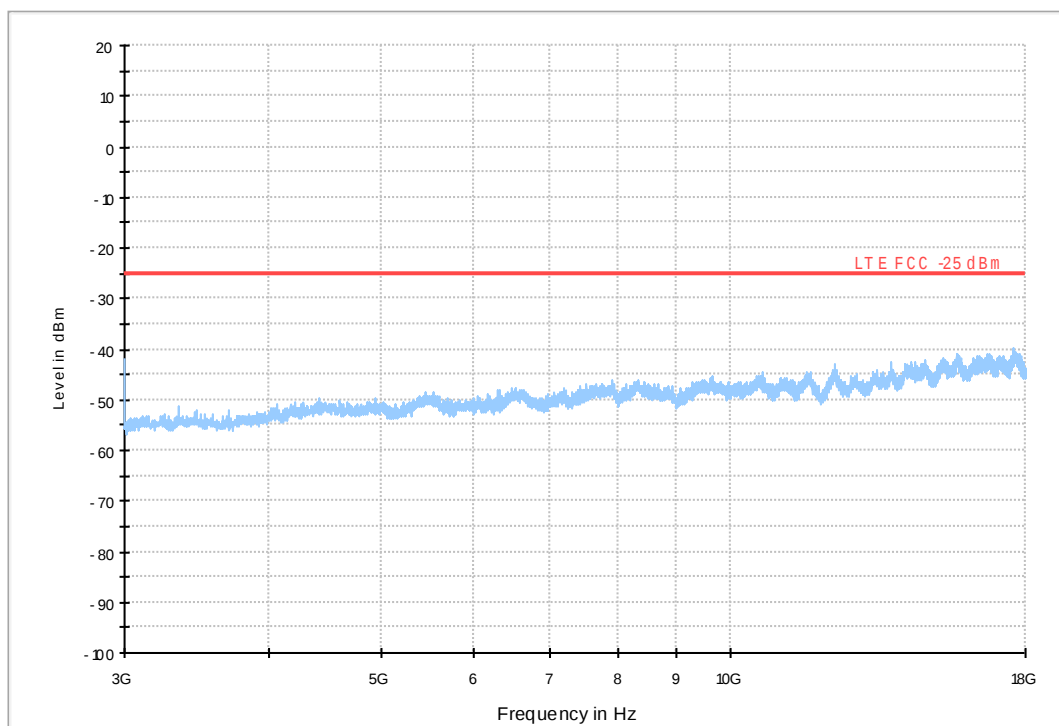


Site : 03CH01-SZ
 Condition : -13DBM
 : RBW:9.000KHz VBW:30.000KHz

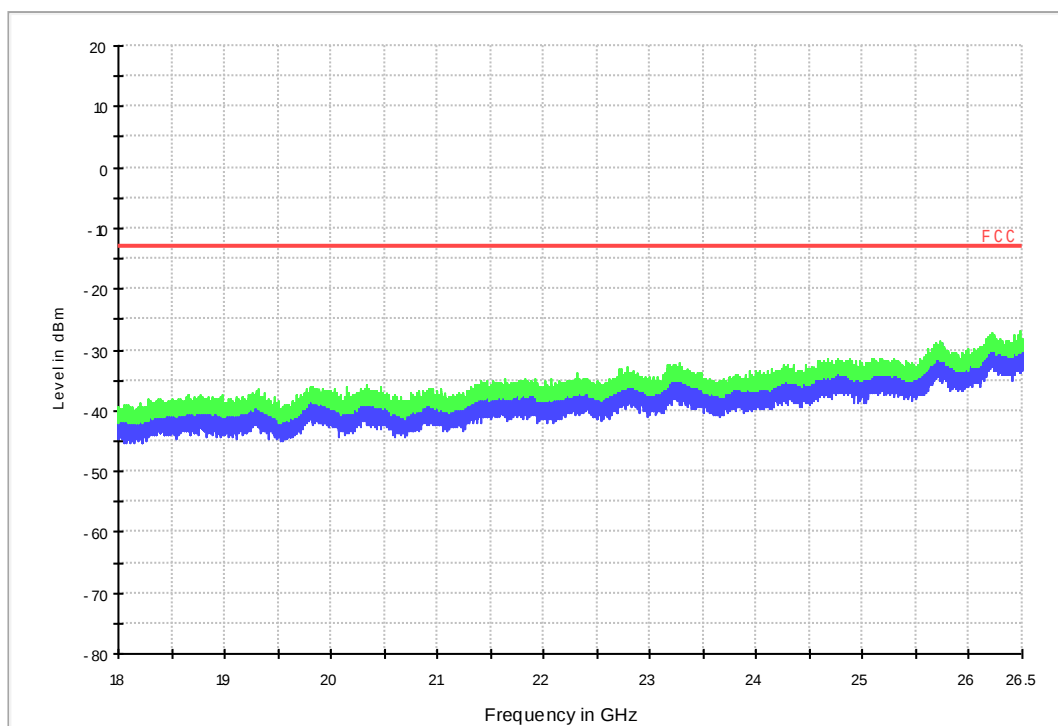
LTETDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



LTETDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



18G~26.5G R SE-T X-DIRECTOR ABOVE 1.5G PK

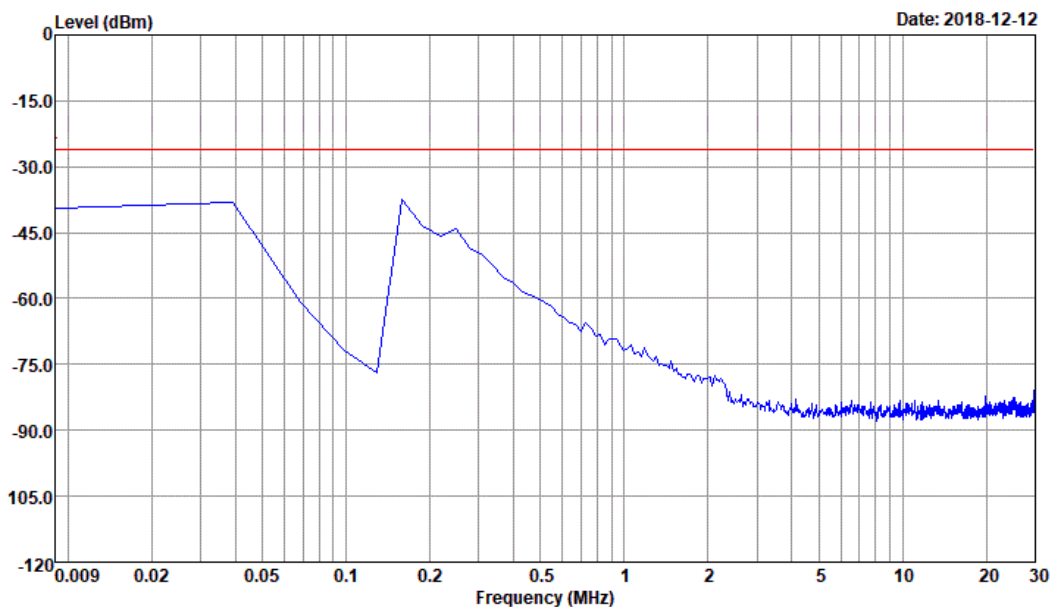


7.1.2 Test Band = Band38_ANT2

7.1.2.1 Test Bandwidth = 5

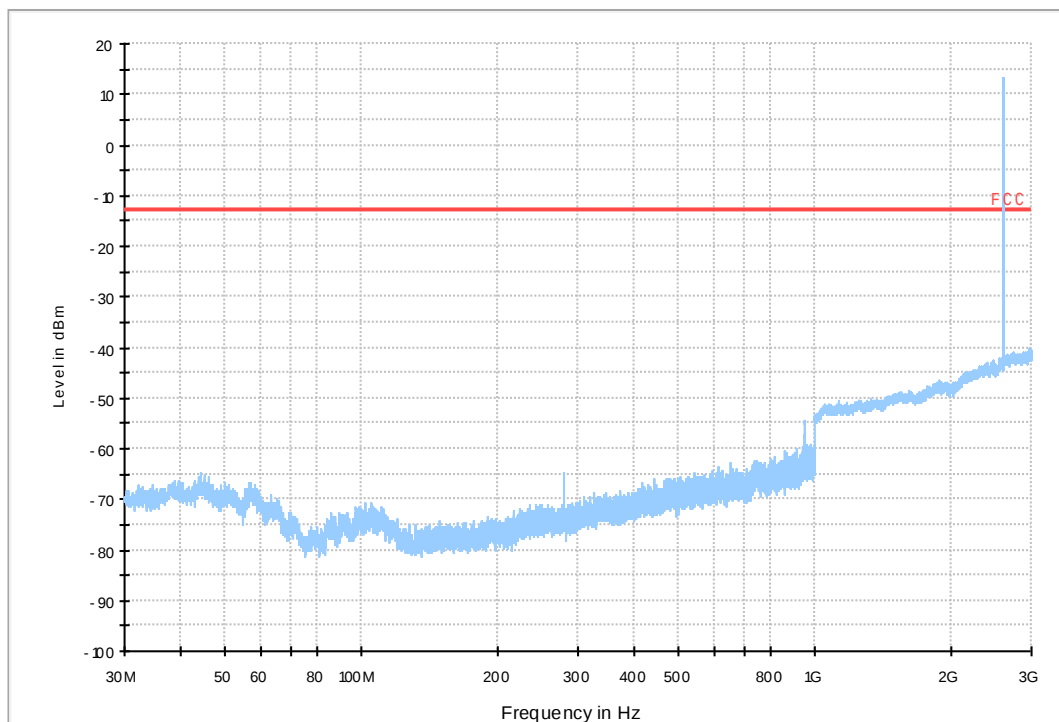


Data: 78

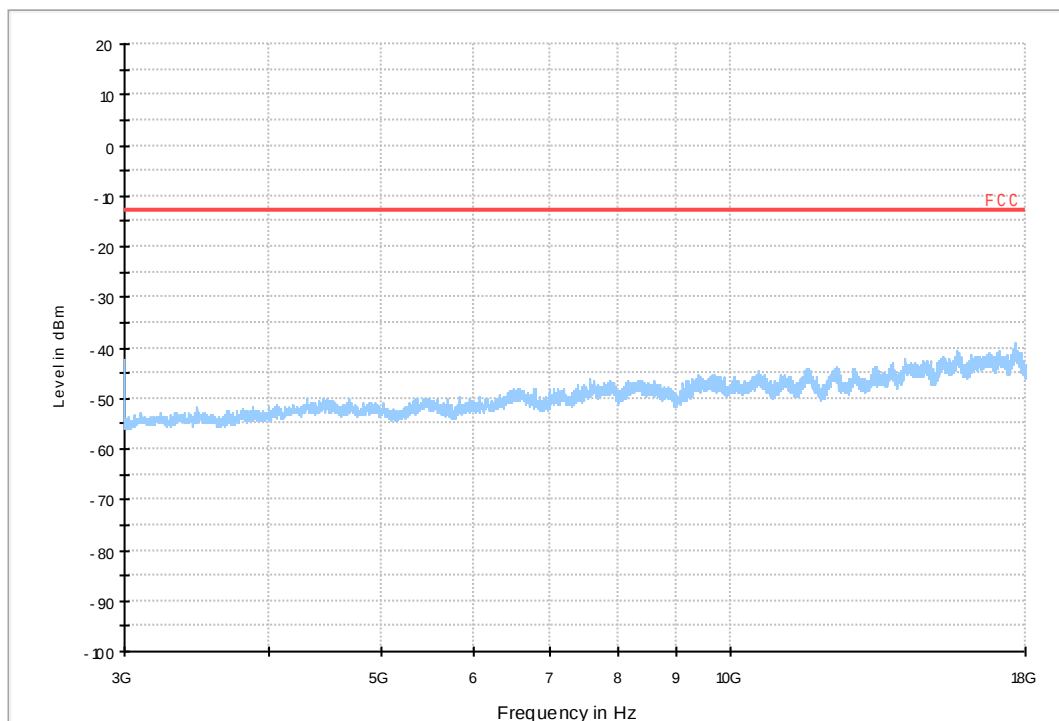


Site : 03CH01-SZ
Condition : -13DBM
: RBW:9.000KHz VBW:30.000KHz

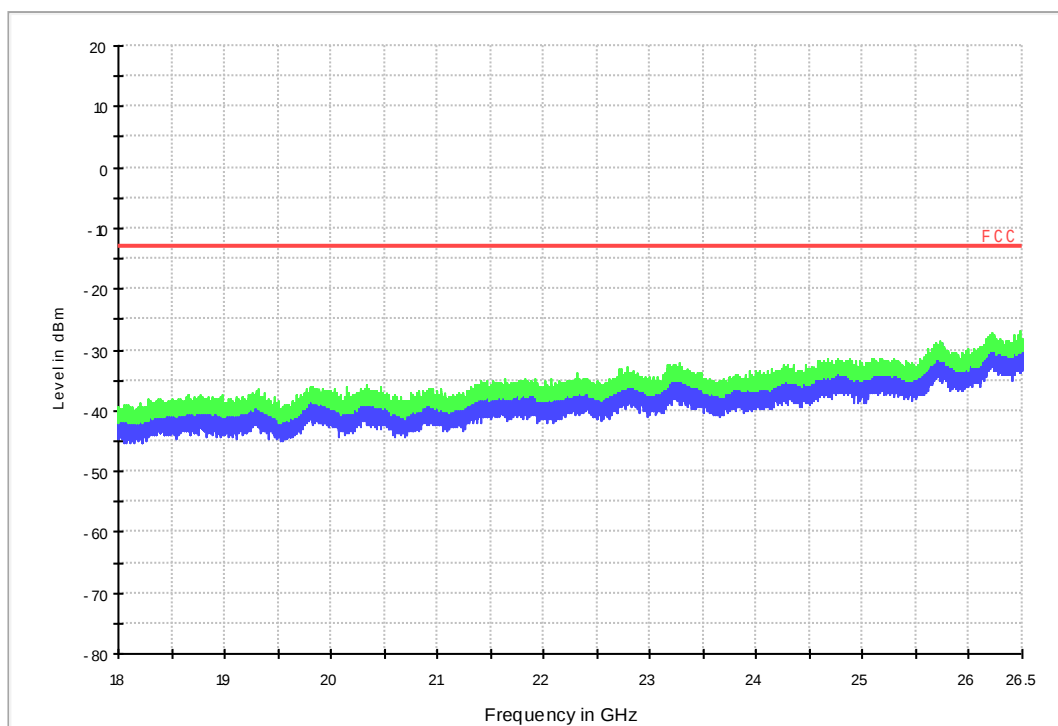
LTETDD Band 33~ Band 48 RSE-TX-DIRECTOR ABOVE 1.5G_L



LTETDD Band 33~ band48 RSE-TX-DIRECTOR ABOVE 1.5G_H



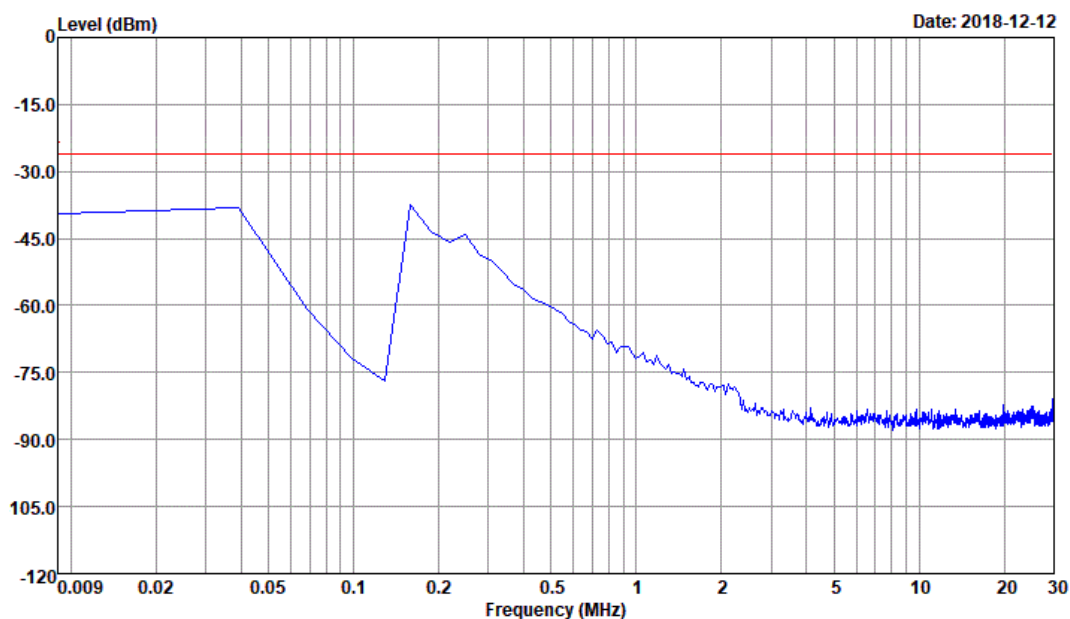
18G~26.5G R SE-T X-DIRECTOR ABOVE 1.5G PK



7.1.2.2 Test Bandwidth = 20

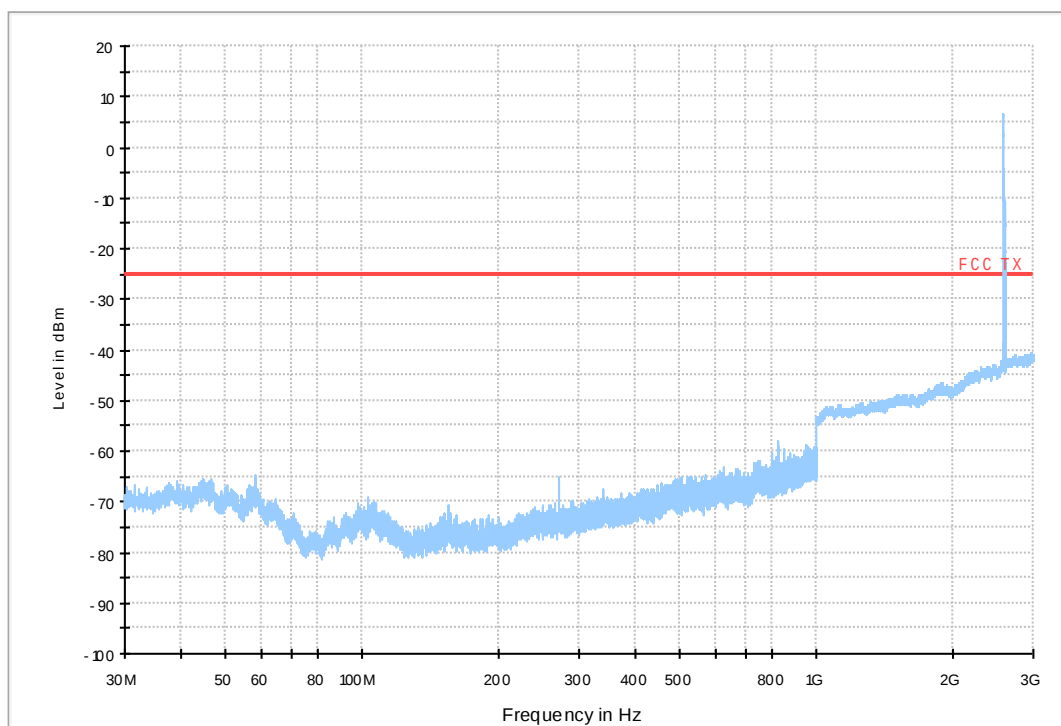


Data: 78

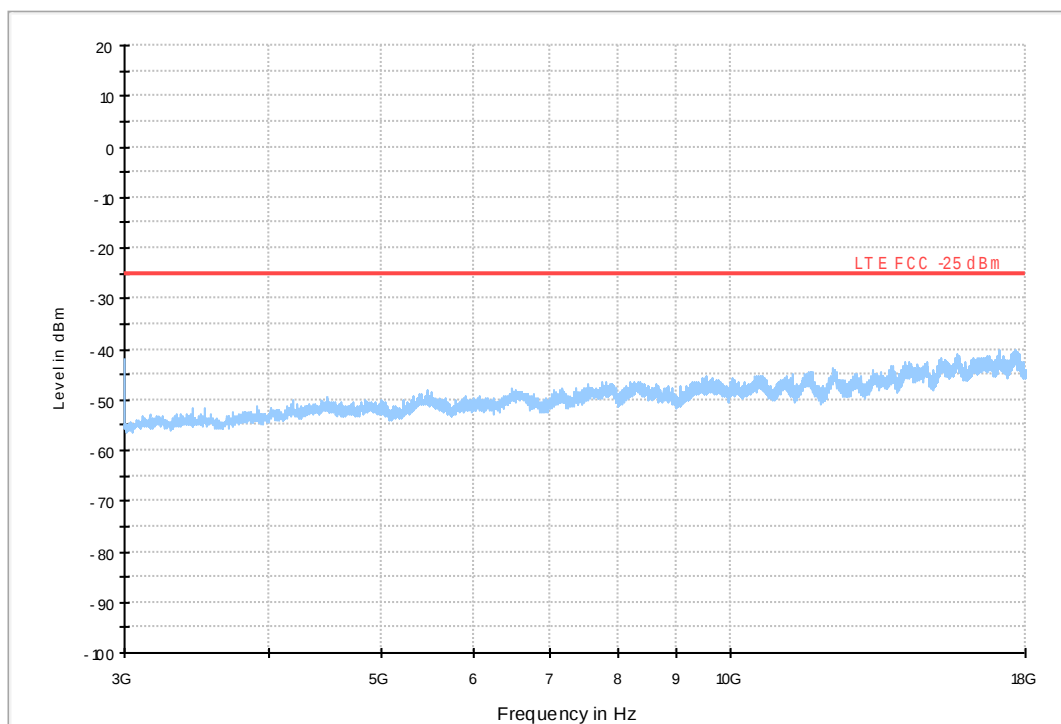


Site : 03CH01-SZ
Condition : -13DBM
: RBW:9.000KHz VBW:30.000KHz

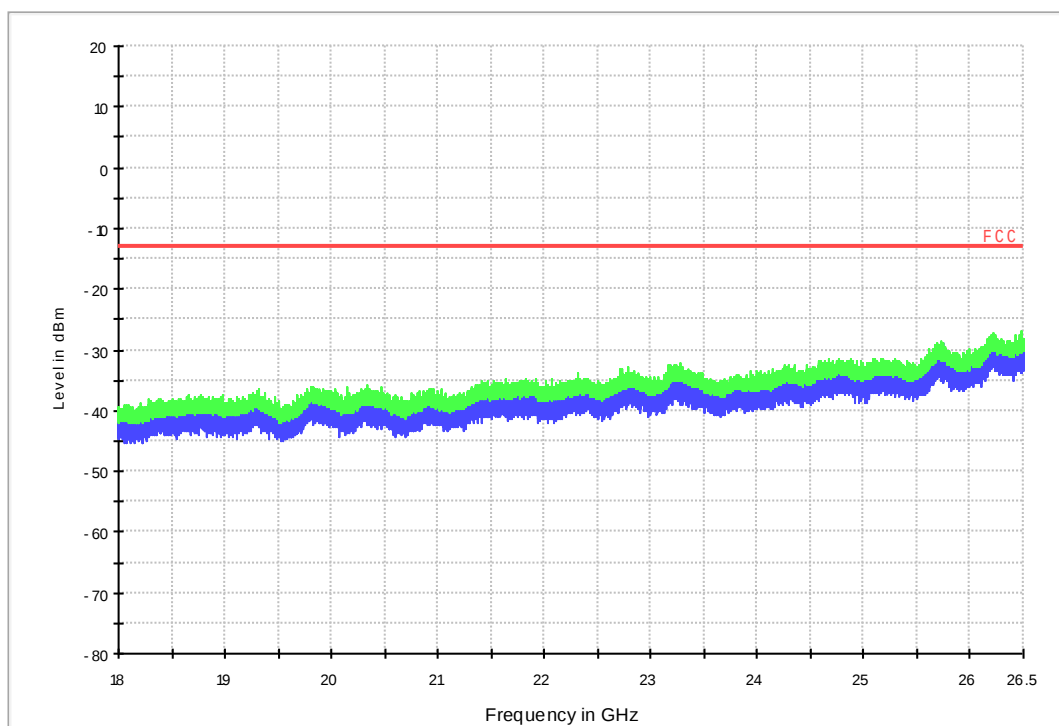
LTETDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_L -25dBm limit



LTETDD Band 38&41 RSE-TX-DIRECTOR ABOVE 1.5G_H -25dBm limit



18G~26.5G R SE-T X-DIRECT OR ABOVE 1.5G PK



8Appendix_H: Frequency Stability

8.1 For LTE

8.1.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
Band38	LTE/TM1	5	LCH	TN	VL	-19.89841	-0.00774	PASS
					VN	-17.85278	-0.00694	PASS
					VH	-10.55717	-0.00410	PASS
			MCH	TN	VL	-17.76695	-0.00685	PASS
					VN	-28.83911	-0.01111	PASS
					VH	-20.12730	-0.00776	PASS
			HCH	TN	VL	-16.73698	-0.00639	PASS
					VN	-21.15726	-0.00808	PASS
					VH	-23.10276	-0.00883	PASS
		10	LCH	TN	VL	-16.95156	-0.00658	PASS
					VN	-18.82553	-0.00731	PASS
					VH	-12.80308	-0.00497	PASS
			MCH	TN	VL	-17.46655	-0.00673	PASS
					VN	-24.06120	-0.00927	PASS
					VH	-17.78126	-0.00685	PASS
			HCH	TN	VL	-16.36505	-0.00626	PASS
					VN	-20.12730	-0.00770	PASS
					VH	-19.52648	-0.00747	PASS
		15	LCH	TN	VL	-16.66546	-0.00647	PASS
					VN	-16.66546	-0.00647	PASS
					VH	-14.09054	-0.00547	PASS
			MCH	TN	VL	-18.11028	-0.00698	PASS
					VN	-14.90593	-0.00574	PASS
					VH	-18.28194	-0.00705	PASS
			HCH	TN	VL	-17.56668	-0.00672	PASS
					VN	-16.89434	-0.00647	PASS
					VH	-12.93182	-0.00495	PASS
		20	LCH	TN	VL	-18.08167	-0.00701	PASS
					VN	-17.16614	-0.00665	PASS
					VH	-14.70566	-0.00570	PASS
			MCH	TN	VL	-20.08438	-0.00774	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2				VN	-18.48221	-0.00712	PASS
					VH	-17.69543	-0.00682	PASS
			HCH	TN	VL	-18.15319	-0.00696	PASS
					VN	-17.19475	-0.00659	PASS
					VH	-14.51969	-0.00556	PASS
					VH	-14.51969	-0.00556	PASS
		5	LCH	TN	VL	-17.52377	-0.00681	PASS
					VN	-20.79964	-0.00809	PASS
					VH	-21.88683	-0.00851	PASS
			MCH	TN	VL	-17.99583	-0.00693	PASS
					VN	-13.41820	-0.00517	PASS
					VH	-20.32757	-0.00783	PASS
			HCH	TN	VL	-19.35482	-0.00739	PASS
					VN	-23.03123	-0.00880	PASS
					VH	-20.85686	-0.00797	PASS
		10	LCH	TN	VL	-14.74857	-0.00573	PASS
					VN	-17.78126	-0.00691	PASS
					VH	-13.03196	-0.00506	PASS
			MCH	TN	VL	-11.58714	-0.00447	PASS
					VN	-17.38071	-0.00670	PASS
					VH	-15.60688	-0.00601	PASS
			HCH	TN	VL	-14.41956	-0.00551	PASS
					VN	-17.95292	-0.00687	PASS
					VH	-20.07008	-0.00767	PASS
		15	LCH	TN	VL	-15.37800	-0.00597	PASS
					VN	-18.03875	-0.00700	PASS
					VH	-16.43658	-0.00638	PASS
			MCH	TN	VL	-14.01901	-0.00540	PASS
					VN	-19.15455	-0.00738	PASS
					VH	-18.01014	-0.00694	PASS
			HCH	TN	VL	-12.47406	-0.00477	PASS
					VN	-13.64708	-0.00522	PASS
					VH	-18.01014	-0.00689	PASS
		20	LCH	TN	VL	-15.89298	-0.00616	PASS
					VN	-18.75401	-0.00727	PASS
					VH	-16.10756	-0.00624	PASS
			MCH	TN	VL	-16.33644	-0.00630	PASS
					VN	-19.34052	-0.00745	PASS
					VH	-18.39638	-0.00709	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			HCH	TN	VL	-13.03196	-0.00499	PASS
					VN	-16.45088	-0.00630	PASS
					VH	-17.66682	-0.00677	PASS

8.1.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
Band38	LTE/TM1	5	LCH	VN	-30	-19.38343	-0.00753	PASS
					-20	-17.22336	-0.00670	PASS
					-10	-20.39909	-0.00793	PASS
					0	-14.57691	-0.00567	PASS
					10	-16.43658	-0.00639	PASS
					20	-17.85278	-0.00694	PASS
					30	-18.99719	-0.00738	PASS
					40	-60.28175	-0.02343	PASS
					50	-19.39774	-0.00754	PASS
			MCH	VN	-30	-25.37727	-0.00978	PASS
					-20	-23.20290	-0.00894	PASS
					-10	-27.59457	-0.01063	PASS
					0	-22.60208	-0.00871	PASS
					10	-23.68927	-0.00913	PASS
					20	-28.83911	-0.01111	PASS
					30	-20.44201	-0.00788	PASS
					40	-21.67225	-0.00835	PASS
					50	-24.79076	-0.00955	PASS
			HCH	VN	-30	-21.08574	-0.00806	PASS
					-20	-25.79212	-0.00985	PASS
					-10	-36.32069	-0.01388	PASS
					0	-27.93789	-0.01067	PASS
					10	-26.04961	-0.00995	PASS
					20	-21.15726	-0.00808	PASS
					30	-17.91000	-0.00684	PASS
					40	-30.84183	-0.01178	PASS
					50	-17.38071	-0.00670	PASS
		10	LCH	VN	-30	-13.00335	-0.00505	PASS
					-20	-12.90321	-0.00501	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-10	-26.27850	-0.01021	PASS
					0	-13.64708	-0.00530	PASS
					10	-20.31326	-0.00789	PASS
					20	-18.82553	-0.00731	PASS
					30	-18.63956	-0.00724	PASS
					40	-21.35754	-0.00829	PASS
					50	-18.89706	-0.00734	PASS
			MCH	VN	-30	-15.56396	-0.00600	PASS
					-20	-18.18180	-0.00701	PASS
					-10	-38.15174	-0.01470	PASS
					0	-16.09325	-0.00620	PASS
					10	-17.08031	-0.00658	PASS
					20	-24.06120	-0.00927	PASS
					30	-17.38071	-0.00670	PASS
					40	-16.27922	-0.00627	PASS
					50	-22.51625	-0.00868	PASS
			HCH	VN	-30	-7.52449	-0.00288	PASS
					-20	-24.51897	-0.00938	PASS
					-10	-20.98560	-0.00803	PASS
					0	-20.47062	-0.00783	PASS
					10	-22.40181	-0.00857	PASS
					20	-20.12730	-0.00770	PASS
					30	-18.55373	-0.00710	PASS
					40	-14.27650	-0.00546	PASS
					50	-19.19746	-0.00734	PASS
		15	LCH	VN	-30	-17.96722	-0.00697	PASS
					-20	-16.63685	-0.00645	PASS
					-10	-16.06464	-0.00623	PASS
					0	-15.83576	-0.00614	PASS
					10	-13.61847	-0.00528	PASS
					20	-16.66546	-0.00647	PASS
					30	-14.56261	-0.00565	PASS
					40	-15.99312	-0.00620	PASS
					50	-19.12594	-0.00742	PASS
			MCH	VN	-30	-18.52512	-0.00714	PASS
					-20	-16.35075	-0.00630	PASS
					-10	-16.95156	-0.00653	PASS
					0	-17.85278	-0.00688	PASS
					10	-14.64844	-0.00564	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					20	-14.90593	-0.00574	PASS
					30	-17.62390	-0.00679	PASS
					40	-20.07008	-0.00773	PASS
					50	-20.09869	-0.00775	PASS
			HCH	VN	-30	-17.53807	-0.00671	PASS
					-20	-22.78805	-0.00872	PASS
					-10	-16.02173	-0.00613	PASS
					0	-19.35482	-0.00741	PASS
					10	-19.38343	-0.00742	PASS
					20	-16.89434	-0.00647	PASS
					30	-17.91000	-0.00686	PASS
					40	-13.60416	-0.00521	PASS
					50	-19.31190	-0.00739	PASS
		20	LCH	VN	-30	-18.03875	-0.00699	PASS
					-20	-15.02037	-0.00582	PASS
					-10	-27.78053	-0.01077	PASS
					0	-28.49579	-0.01104	PASS
					10	-16.17908	-0.00627	PASS
					20	-17.16614	-0.00665	PASS
					30	-28.45287	-0.01103	PASS
					40	-18.26763	-0.00708	PASS
					50	-10.09941	-0.00391	PASS
			MCH	VN	-30	-20.05577	-0.00773	PASS
					-20	-20.38479	-0.00786	PASS
					-10	-21.35754	-0.00823	PASS
					0	-23.96107	-0.00923	PASS
					10	-20.07008	-0.00773	PASS
					20	-18.48221	-0.00712	PASS
					30	-21.94405	-0.00846	PASS
					40	-18.19611	-0.00701	PASS
					50	-19.36913	-0.00746	PASS
			HCH	VN	-30	-50.78316	-0.01946	PASS
					-20	-14.51969	-0.00556	PASS
					-10	-22.38750	-0.00858	PASS
					0	-24.57619	-0.00942	PASS
					10	-17.95292	-0.00688	PASS
					20	-17.19475	-0.00659	PASS
					30	-30.12657	-0.01154	PASS
					40	-20.41340	-0.00782	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2	5	LCH	VN	50	-37.70828	-0.01445	PASS
					-30	-26.73626	-0.01039	PASS
					-20	-47.22118	-0.01836	PASS
					-10	-21.84391	-0.00849	PASS
					0	-28.81050	-0.01120	PASS
					10	-21.35754	-0.00830	PASS
					20	-20.79964	-0.00809	PASS
					30	-20.79964	-0.00809	PASS
					40	-17.85278	-0.00694	PASS
					50	-20.51353	-0.00797	PASS
			MCH	VN	-30	-17.95292	-0.00692	PASS
					-20	-20.92838	-0.00806	PASS
					-10	-23.76080	-0.00916	PASS
					0	-51.42689	-0.01982	PASS
					10	-58.89416	-0.02270	PASS
					20	-13.41820	-0.00517	PASS
					30	-24.44744	-0.00942	PASS
					40	-24.08981	-0.00928	PASS
					50	-31.28529	-0.01206	PASS
			HCH	VN	-30	-23.87524	-0.00912	PASS
					-20	-28.19538	-0.01077	PASS
					-10	-23.88954	-0.00913	PASS
					0	-20.88547	-0.00798	PASS
					10	-27.93789	-0.01067	PASS
					20	-23.03123	-0.00880	PASS
					30	-26.20697	-0.01001	PASS
					40	-21.75808	-0.00831	PASS
					50	-17.83848	-0.00693	PASS
		10	LCH	VN	-30	-28.52440	-0.01108	PASS
					-20	-20.24174	-0.00786	PASS
					-10	-26.07822	-0.01013	PASS
					0	-19.84119	-0.00771	PASS
					10	-14.29081	-0.00555	PASS
					20	-17.78126	-0.00691	PASS
					30	-17.83848	-0.00693	PASS
					40	-18.98289	-0.00737	PASS
					50	-17.42363	-0.00677	PASS
			MCH	VN	-30	-17.68112	-0.00681	PASS
					-20	-21.45767	-0.00827	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-10	-18.78262	-0.00724	PASS
					0	-16.43658	-0.00633	PASS
					10	-16.73698	-0.00645	PASS
					20	-17.38071	-0.00670	PASS
					30	-22.78805	-0.00878	PASS
					40	-23.93246	-0.00922	PASS
					50	-18.66817	-0.00719	PASS
			HCH	VN	-30	-16.00742	-0.00612	PASS
					-20	-22.90249	-0.00876	PASS
					-10	-19.22607	-0.00735	PASS
					0	-20.12730	-0.00770	PASS
					10	-18.42499	-0.00705	PASS
					20	-17.95292	-0.00687	PASS
					30	-18.11028	-0.00693	PASS
					40	-29.82616	-0.01141	PASS
					50	-21.55781	-0.00824	PASS
		15	LCH	VN	-30	-14.84871	-0.00576	PASS
					-20	-16.29353	-0.00632	PASS
					-10	-17.80987	-0.00691	PASS
					0	-14.00471	-0.00543	PASS
					10	-17.66682	-0.00685	PASS
					20	-18.03875	-0.00700	PASS
					30	-18.41068	-0.00714	PASS
					40	-20.25604	-0.00786	PASS
					50	-19.21177	-0.00745	PASS
			MCH	VN	-30	-17.20905	-0.00663	PASS
					-20	-15.49244	-15.49244	PASS
					-10	-21.97266	-0.00847	PASS
					0	-14.16206	-0.00546	PASS
					10	-20.09869	-0.00775	PASS
					20	-19.15455	-0.00738	PASS
					30	-28.09525	-0.01083	PASS
					40	-20.08438	-0.00774	PASS
					50	-18.92567	-0.00729	PASS
			HCH	VN	-30	-15.56396	-0.00596	PASS
					-20	-23.86093	-0.00913	PASS
					-10	-20.28465	-0.00776	PASS
					0	-19.66953	-0.00753	PASS
					10	-19.95564	-0.00764	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					20	-13.64708	-0.00522	PASS
					30	-16.12186	-0.00617	PASS
					40	-21.25740	-0.00814	PASS
					50	-33.87451	-0.01297	PASS
		20	LCH	VN	-30	-16.88004	-0.00654	PASS
					-20	-16.49380	-0.00639	PASS
					-10	-25.89226	-0.01004	PASS
					0	-26.27850	-0.01019	PASS
					10	-21.95835	-0.00851	PASS
					20	-18.75401	-0.00727	PASS
					30	-24.63341	-0.00955	PASS
					40	-18.09597	-0.00701	PASS
					50	-10.60009	-0.00411	PASS
			MCH	VN	-30	-15.04898	-0.00580	PASS
					-20	-17.38071	-0.00670	PASS
					-10	-20.02716	-0.00772	PASS
					0	-22.87388	-0.00881	PASS
					10	-13.70430	-0.00528	PASS
					20	-19.34052	-0.00745	PASS
					30	-17.92431	-0.00691	PASS
					40	-20.92838	-0.00806	PASS
					50	-18.13889	-0.00699	PASS
			HCH	VN	-30	-15.97881	-0.00612	PASS
					-20	-16.10756	-0.00617	PASS
					-10	-18.22472	-0.00698	PASS
					0	-22.13001	-0.00848	PASS
					10	-21.48628	-0.00823	PASS
					20	-16.45088	-0.00630	PASS
					30	-25.34866	-0.00971	PASS
					40	-16.90865	-0.00648	PASS
					50	-29.94061	-0.01147	PASS

END