







6.1.1.1.2 Test Bandwidth = 10

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0













6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0









6.1.1.1.3 Test Bandwidth = 15

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0









6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0









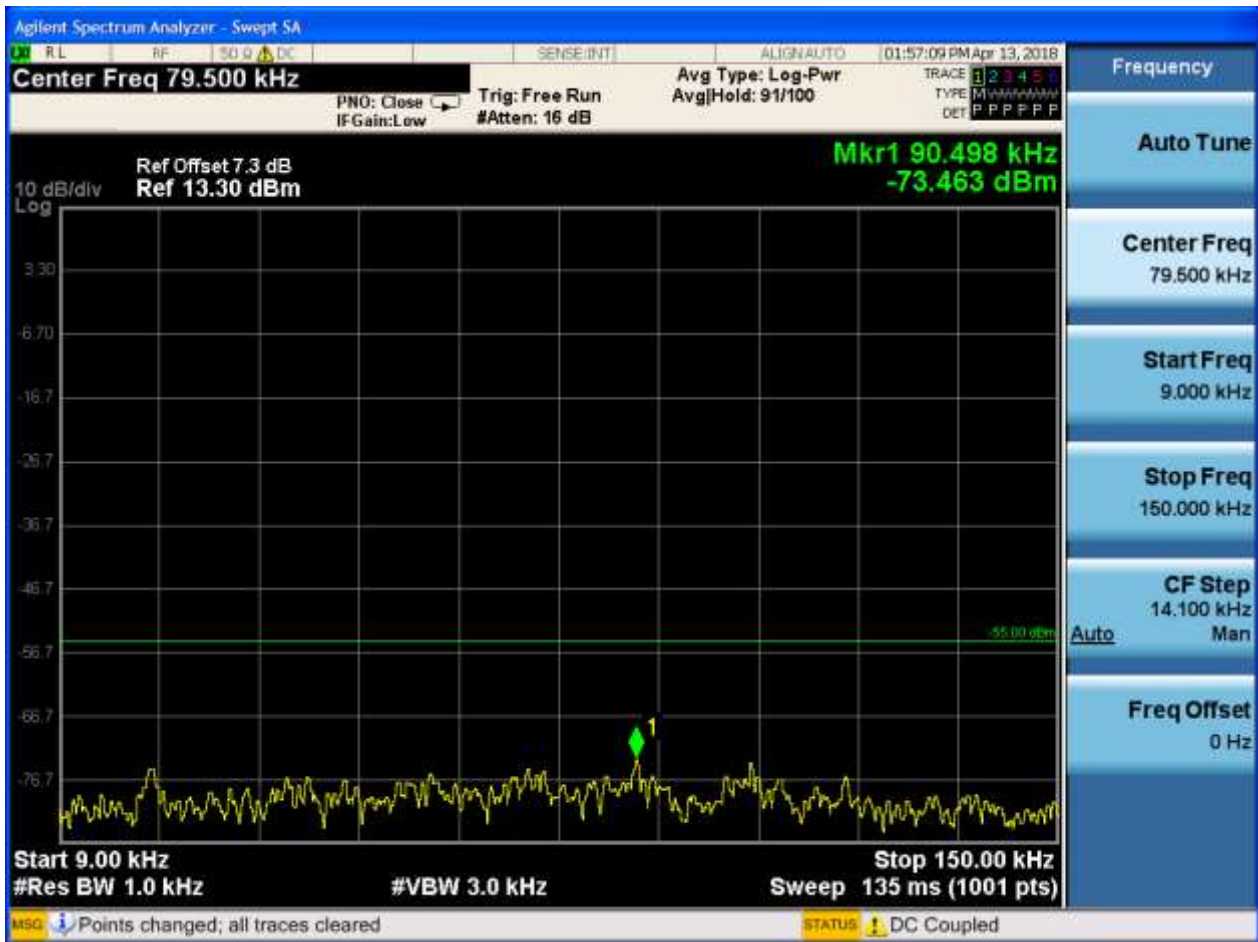




6.1.1.1.4 Test Bandwidth = 20

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0









6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0







6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0







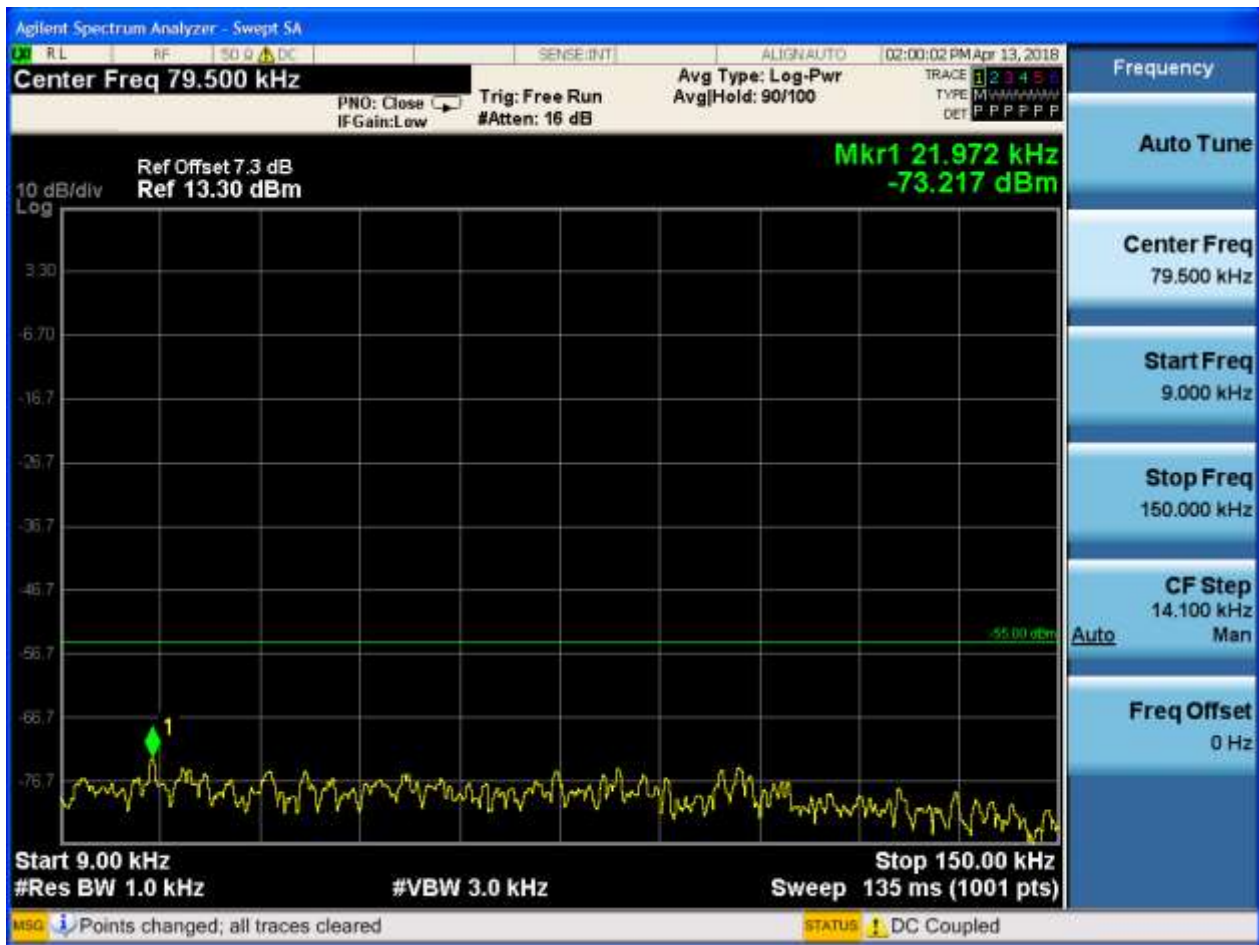


6.1.1.2 Test Mode = LTE/TM2

6.1.1.2.1 Test Bandwidth = 5

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0













6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0









6.1.1.2.2 Test Bandwidth = 10

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0









6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0









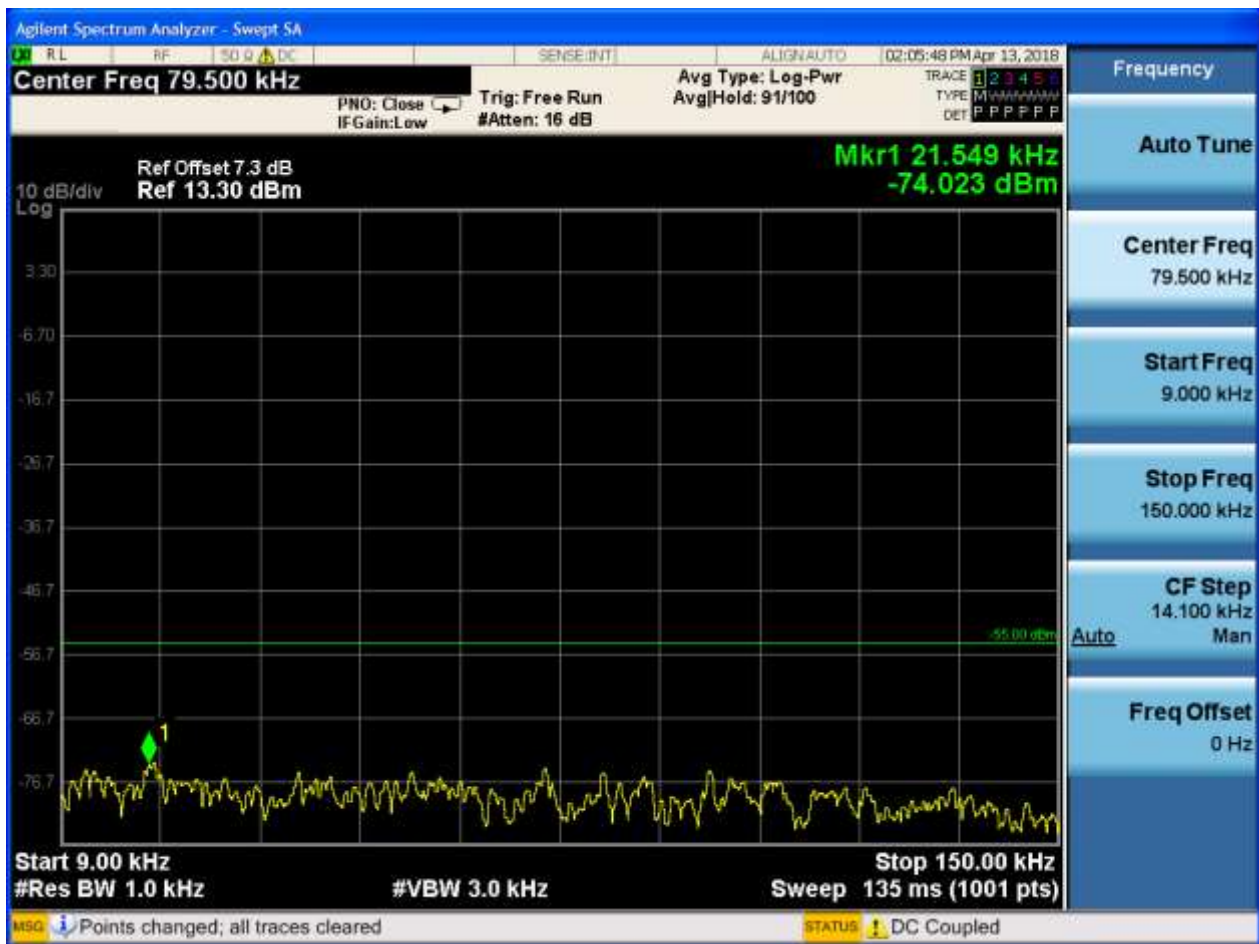




6.1.1.2.3 Test Bandwidth = 15

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0









6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0









6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0









6.1.1.2.4 Test Bandwidth = 20

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0









6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 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

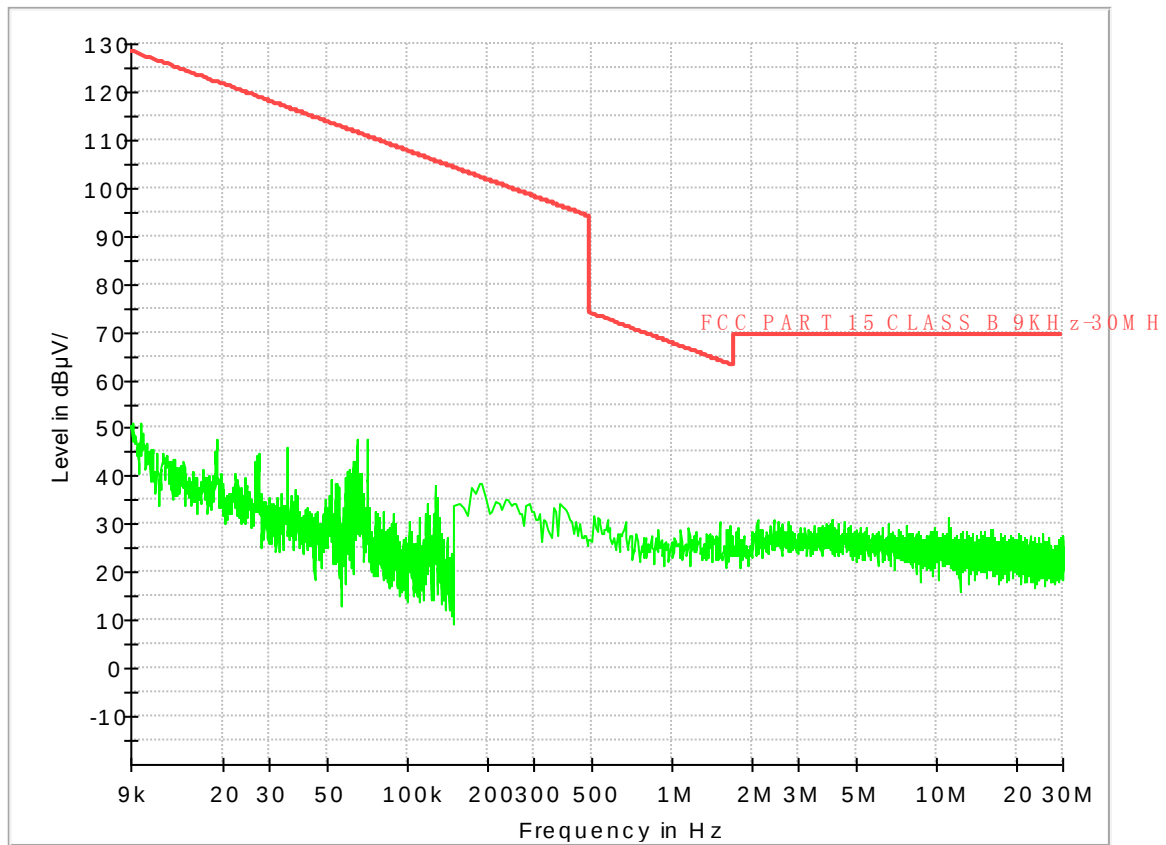
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

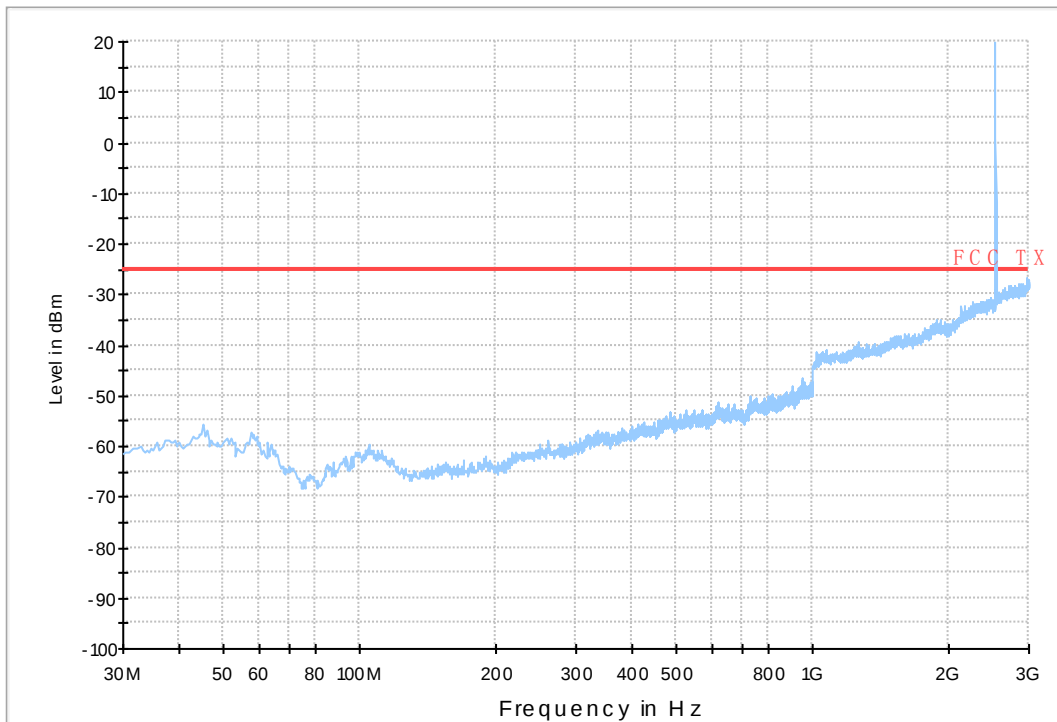
7.1 For LTE

7.1.1 Test Band = BAND7

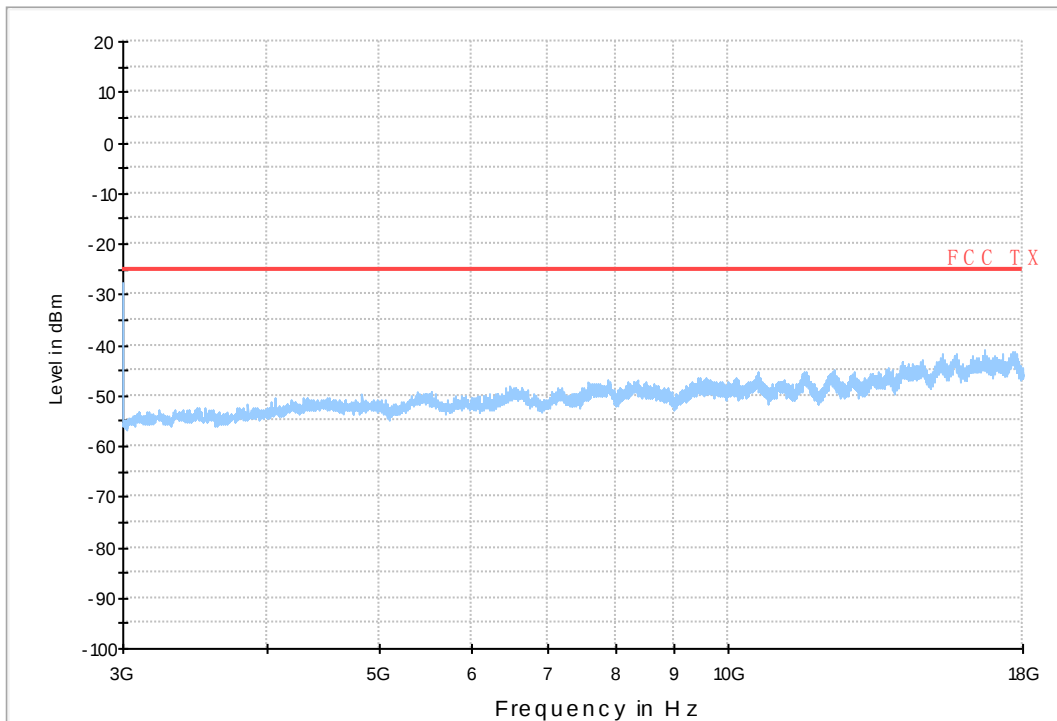
7.1.1.1 Test Bandwidth = 5



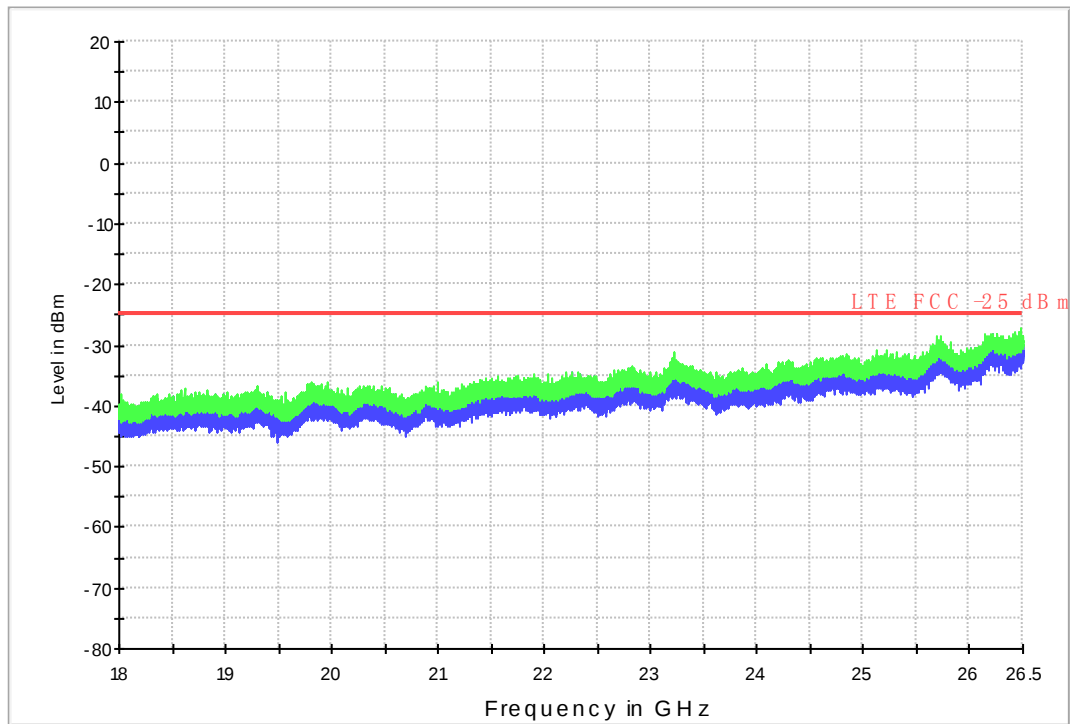
Copy of RSE-TX-DIRECTOR ABOVE 1.5G Limit -25_L



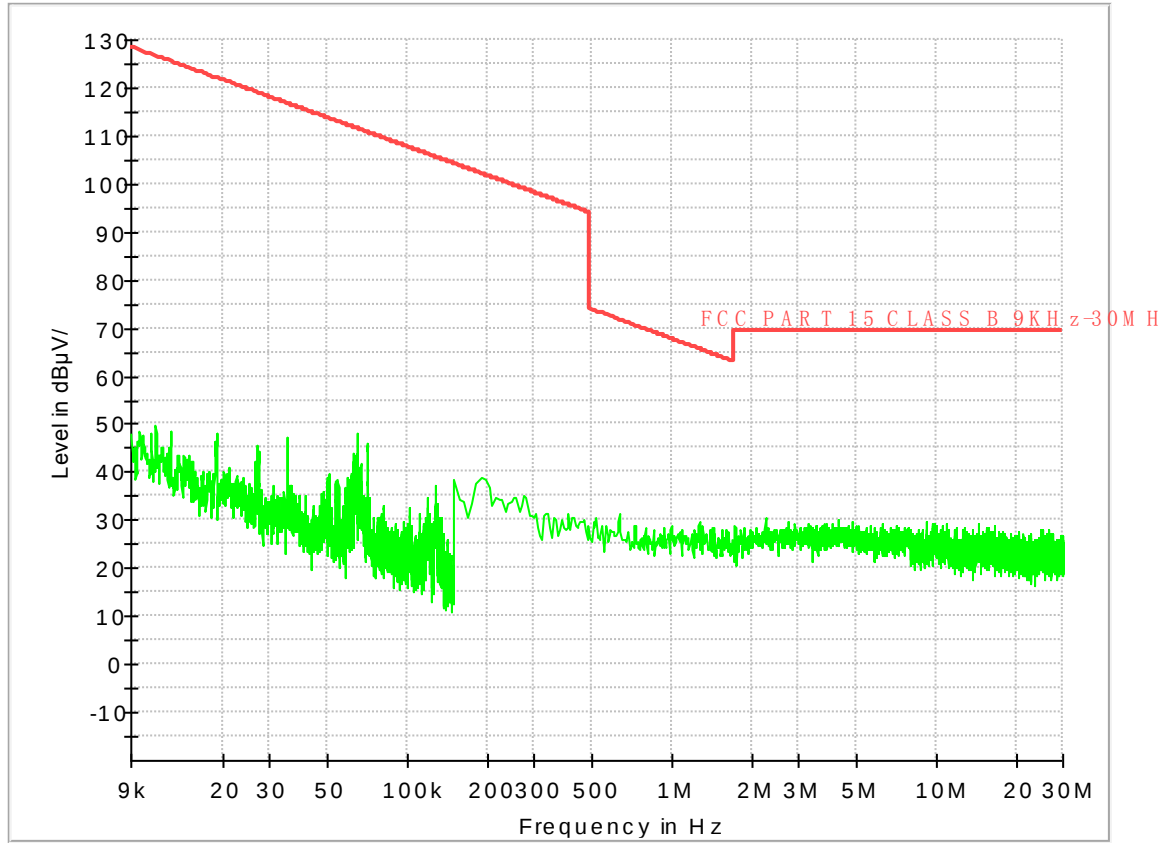
Copy of RSE-TX-DIRECTOR ABOVE 1.5G Limit -25_H



18G~26.5G RSE-TX-DIRECTOR ABOVE 1.5G PK

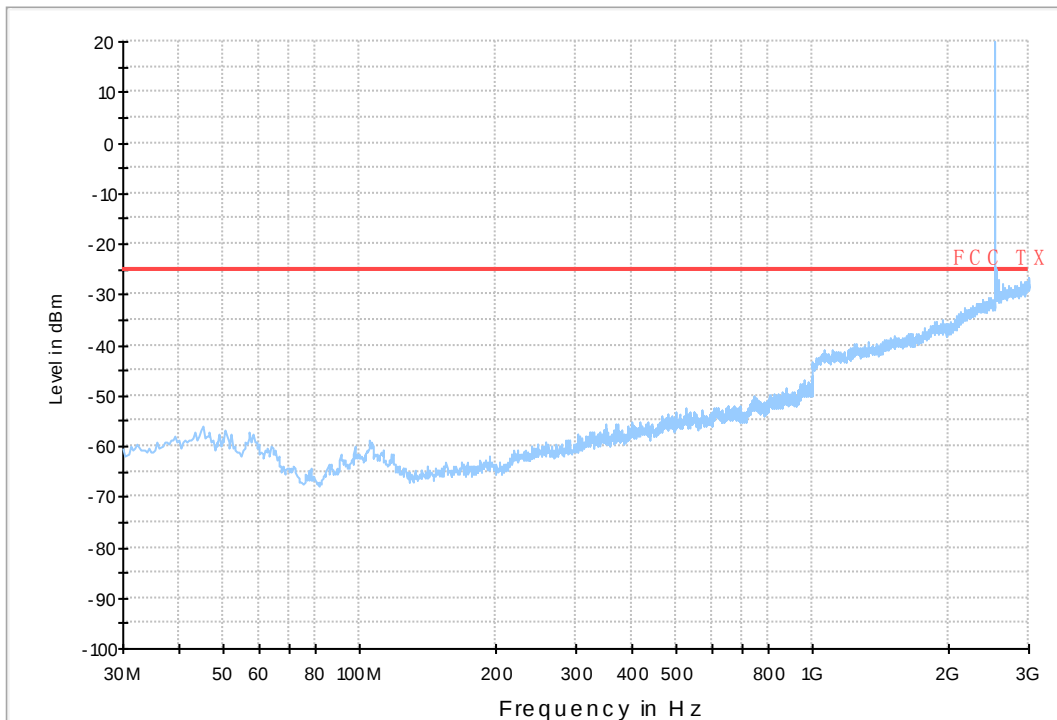


7.1.1.2 Test Bandwidth = 20

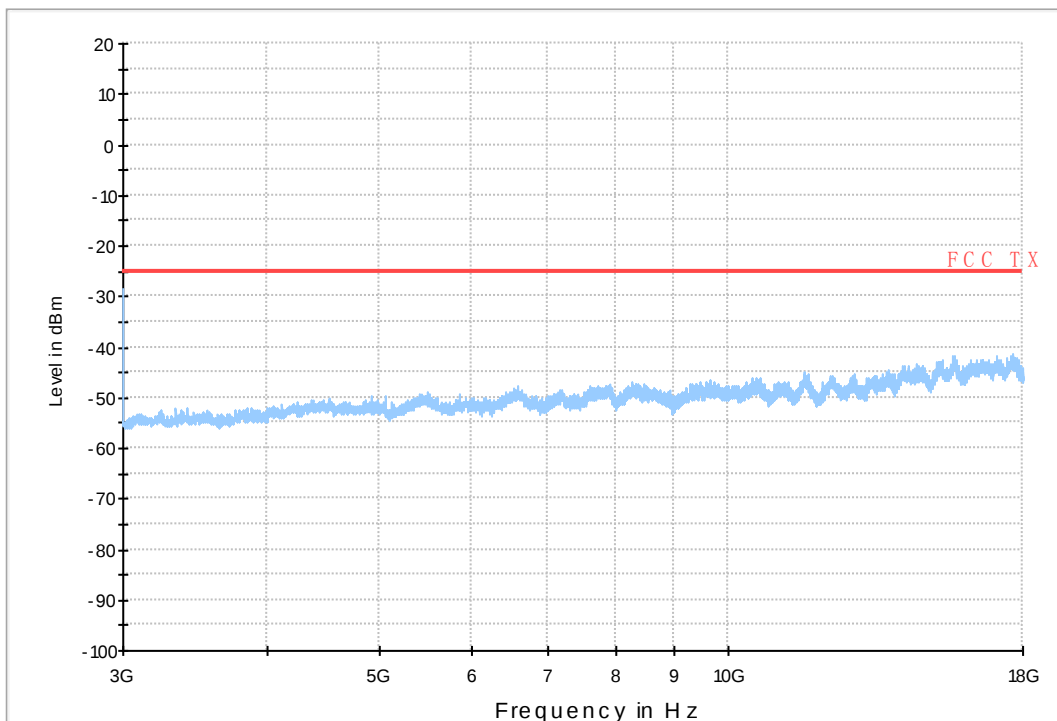




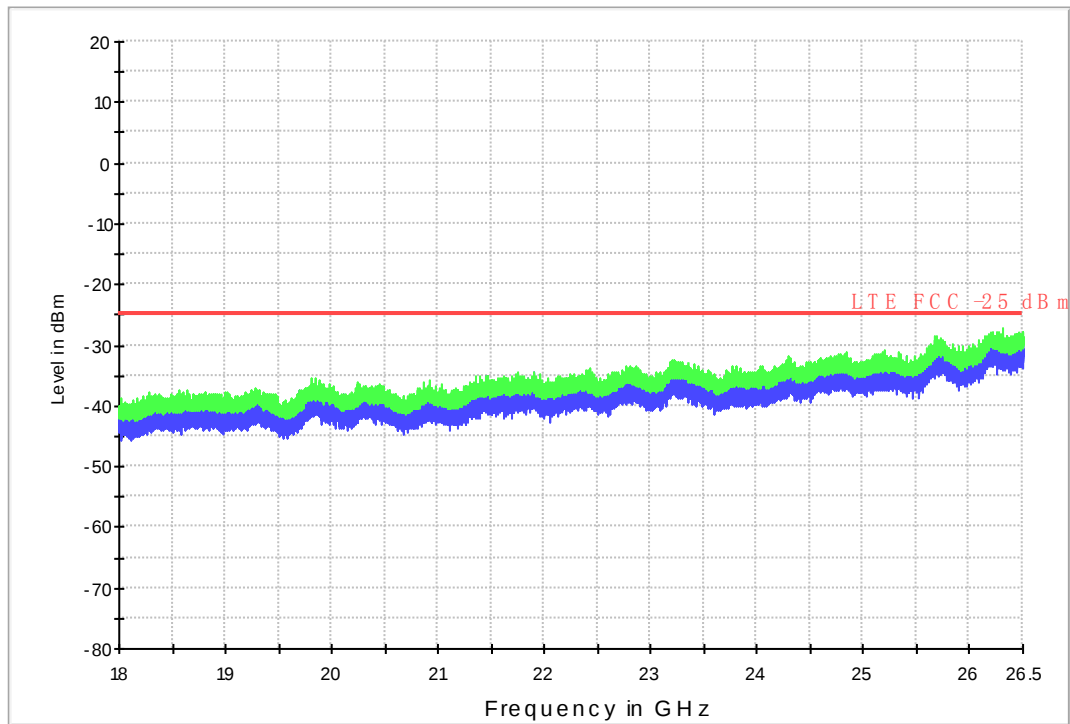
Copy of RSE-TX-DIRECTOR ABOVE 1.5G Limit -25_L



Copy of RSE-TX-DIRECTOR ABOVE 1.5G Limit -25_H



18G~26.5G RSE-TX-DIRECTOR 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
BAND7	LTE/TM1	5	LCH	TN	VL	-4.06	-0.00162	PASS
					VN	-4.16	-0.00166	PASS
					VH	-10.34	-0.00413	PASS
			MCH	TN	VL	-4.48	-0.00177	PASS
					VN	-6.38	-0.00252	PASS
					VH	-5.99	-0.00236	PASS
			HCH	TN	VL	-5.92	-0.00231	PASS
					VN	-5.45	-0.00212	PASS
					VH	-5.99	-0.00233	PASS
		10	LCH	TN	VL	-5.42	-0.00216	PASS
					VN	-5.28	-0.00211	PASS
					VH	0.17	0.00007	PASS
			MCH	TN	VL	-5.42	-0.00214	PASS
					VN	-5.48	-0.00216	PASS
					VH	-5.98	-0.00236	PASS
			HCH	TN	VL	-7.20	-0.00281	PASS
					VN	-3.46	-0.00135	PASS
					VH	-2.22	-0.00087	PASS
		15	LCH	TN	VL	-4.15	-0.00166	PASS
					VN	-0.66	-0.00026	PASS
					VH	-6.37	-0.00254	PASS
			MCH	TN	VL	-10.34	-0.00408	PASS
					VN	-7.44	-0.00293	PASS
					VH	-8.90	-0.00351	PASS
			HCH	TN	VL	-4.51	-0.00176	PASS
					VN	0.59	0.00023	PASS
					VH	-5.39	-0.0021	PASS
		20	LCH	TN	VL	0.19	0.00008	PASS
					VN	-5.15	-0.00205	PASS
					VH	-3.30	-0.00131	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2		MCH	TN	VL	-2.96	-0.00117	PASS
					VN	-9.38	-0.0037	PASS
					VH	-1.40	-0.00055	PASS
			HCH	TN	VL	-5.12	-0.002	PASS
					VN	-7.90	-0.00309	PASS
					VH	-6.77	-0.00264	PASS
		5	LCH	TN	VL	-2.09	-0.00084	PASS
					VN	-2.07	-0.00083	PASS
					VH	1.26	0.0005	PASS
			MCH	TN	VL	-10.43	-0.00411	PASS
					VN	-9.67	-0.00381	PASS
					VH	-9.26	-0.00365	PASS
			HCH	TN	VL	-3.79	-0.00148	PASS
					VN	-4.28	-0.00167	PASS
					VH	-3.06	-0.00119	PASS
		10	LCH	TN	VL	-3.91	-0.00156	PASS
					VN	-3.83	-0.00153	PASS
					VH	-4.35	-0.00174	PASS
			MCH	TN	VL	-4.01	-0.00158	PASS
					VN	-6.34	-0.0025	PASS
					VH	-3.26	-0.00129	PASS
			HCH	TN	VL	2.06	0.0008	PASS
					VN	-3.00	-0.00117	PASS
					VH	1.43	0.00056	PASS
		15	LCH	TN	VL	-2.37	-0.00095	PASS
					VN	-3.89	-0.00155	PASS
					VH	-4.62	-0.00184	PASS
			MCH	TN	VL	-0.41	-0.00016	PASS
					VN	-0.13	-0.00005	PASS
					VH	-3.65	-0.00144	PASS
			HCH	TN	VL	-5.81	-0.00227	PASS
					VN	-7.82	-0.00305	PASS
					VH	-8.15	-0.00318	PASS
		20	LCH	TN	VL	-6.44	-0.00257	PASS
					VN	-2.85	-0.00114	PASS
					VH	-0.79	-0.00031	PASS
			MCH	TN	VL	-1.87	-0.00074	PASS
					VN	-5.82	-0.0023	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			HCH	TN	VH	-5.91	-0.00233	PASS
					VL	-10.73	-0.00419	PASS
					VN	-6.38	-0.00249	PASS
					VH	-5.12	-0.002	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
BAND7	LTE/TM1	5	LCH	VN	-30	-4.79	-0.00191	PASS
					-20	-1.76	-0.0007	PASS
					-10	-4.94	-0.00197	PASS
					0	-8.70	-0.00348	PASS
					10	-3.96	-0.00158	PASS
					20	-2.09	-0.00084	PASS
					30	-7.01	-0.0028	PASS
					40	-0.20	-0.00008	PASS
					50	-4.94	-0.00197	PASS
			MCH	VN	-30	-1.56	-0.00062	PASS
					-20	-1.90	-0.00075	PASS
					-10	-3.43	-0.00135	PASS
					0	-0.56	-0.00022	PASS
					10	-0.43	-0.00017	PASS
					20	2.16	0.00085	PASS
					30	-6.24	-0.00246	PASS
					40	-9.01	-0.00355	PASS
					50	-5.19	-0.00205	PASS
			HCH	VN	-30	-1.44	-0.00056	PASS
					-20	-5.51	-0.00215	PASS
					-10	-7.34	-0.00286	PASS
					0	-3.72	-0.00145	PASS
					10	-8.87	-0.00345	PASS
					20	-6.98	-0.00272	PASS
					30	-0.36	-0.00014	PASS
					40	-5.94	-0.00231	PASS
					50	-0.87	-0.00034	PASS
		10	LCH	VN	-30	-3.99	-0.00159	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	0.94	0.00038	PASS
					-10	-3.85	-0.00154	PASS
					0	-2.36	-0.00094	PASS
					10	-4.53	-0.00181	PASS
					20	-4.65	-0.00186	PASS
					30	-1.67	-0.00067	PASS
					40	-4.62	-0.00184	PASS
					50	-2.88	-0.00115	PASS
			MCH	VN	-30	-8.34	-0.00329	PASS
					-20	-8.43	-0.00333	PASS
					-10	-6.52	-0.00257	PASS
					0	-6.45	-0.00254	PASS
					10	-6.98	-0.00275	PASS
					20	-4.12	-0.00163	PASS
					30	-2.46	-0.00097	PASS
					40	-3.06	-0.00121	PASS
					50	-8.30	-0.00327	PASS
			HCH	VN	-30	-1.85	-0.00072	PASS
					-20	1.12	0.00044	PASS
					-10	-4.49	-0.00175	PASS
					0	-1.82	-0.00071	PASS
					10	-2.93	-0.00114	PASS
					20	-3.75	-0.00146	PASS
					30	-0.79	-0.00031	PASS
					40	-1.59	-0.00062	PASS
					50	-0.51	-0.0002	PASS
		15	LCH	VN	-30	-3.20	-0.00128	PASS
					-20	-6.42	-0.00256	PASS
					-10	-11.20	-0.00447	PASS
					0	-5.92	-0.00236	PASS
					10	-7.52	-0.003	PASS
					20	-4.84	-0.00193	PASS
					30	-8.17	-0.00326	PASS
					40	-8.21	-0.00327	PASS
					50	-2.88	-0.00115	PASS
			MCH	VN	-30	-6.49	-0.00256	PASS
					-20	-8.71	-0.00344	PASS
					-10	-9.28	-0.00366	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					0	-6.84	-0.0027	PASS
					10	-1.79	-0.00071	PASS
					20	-11.87	-0.00468	PASS
					30	-7.14	-0.00282	PASS
					40	-10.77	-0.00425	PASS
					50	-4.52	-0.00178	PASS
			HCH	VN	-30	-3.96	-0.00155	PASS
					-20	-0.56	-0.00022	PASS
					-10	-4.81	-0.00188	PASS
					0	-6.77	-0.00264	PASS
					10	-3.46	-0.00135	PASS
					20	-6.59	-0.00257	PASS
					30	-4.23	-0.00165	PASS
					40	-7.72	-0.00301	PASS
					50	-7.32	-0.00286	PASS
		20	LCH	VN	-30	-0.14	-0.00006	PASS
					-20	-2.53	-0.00101	PASS
					-10	0.39	0.00016	PASS
					0	1.03	0.00041	PASS
					10	0.50	0.0002	PASS
					20	-0.13	-0.00005	PASS
					30	-0.19	-0.00008	PASS
					40	0.13	0.00005	PASS
					50	1.66	0.00066	PASS
			MCH	VN	-30	-4.82	-0.0019	PASS
					-20	-0.47	-0.00019	PASS
					-10	-0.79	-0.00031	PASS
					0	-1.50	-0.00059	PASS
					10	0.76	0.0003	PASS
					20	-0.94	-0.00037	PASS
					30	-3.23	-0.00127	PASS
					40	-1.23	-0.00049	PASS
					50	-1.02	-0.0004	PASS
			HCH	VN	-30	-5.31	-0.00207	PASS
					-20	-5.64	-0.0022	PASS
					-10	-6.17	-0.00241	PASS
					0	-3.82	-0.00149	PASS
					10	-8.31	-0.00325	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2				20	-7.67	-0.003	PASS
					30	-9.47	-0.0037	PASS
					40	-4.94	-0.00193	PASS
					50	-6.17	-0.00241	PASS
		5	LCH	VN	-30	-2.57	-0.00103	PASS
					-20	-4.81	-0.00192	PASS
					-10	-2.00	-0.0008	PASS
					0	-8.51	-0.0034	PASS
					10	-4.41	-0.00176	PASS
					20	-5.51	-0.0022	PASS
					30	-1.24	-0.0005	PASS
					40	2.47	0.00099	PASS
					50	-7.17	-0.00287	PASS
			MCH	VN	-30	-0.66	-0.00026	PASS
					-20	-5.68	-0.00224	PASS
					-10	-2.78	-0.0011	PASS
					0	-6.52	-0.00257	PASS
					10	-4.35	-0.00172	PASS
					20	0.84	0.00033	PASS
					30	-2.15	-0.00085	PASS
					40	-8.38	-0.00331	PASS
					50	2.12	0.00084	PASS
			HCH	VN	-30	-0.67	-0.00026	PASS
					-20	-2.30	-0.0009	PASS
					-10	-9.34	-0.00364	PASS
					0	-7.95	-0.0031	PASS
					10	-8.77	-0.00342	PASS
					20	-2.93	-0.00114	PASS
					30	-3.92	-0.00153	PASS
					40	-8.63	-0.00336	PASS
					50	-4.13	-0.00161	PASS
		10	LCH	VN	-30	-8.27	-0.0033	PASS
					-20	-7.67	-0.00306	PASS
					-10	-6.37	-0.00254	PASS
					0	0.72	0.00029	PASS
					10	-5.56	-0.00222	PASS
					20	-7.50	-0.00299	PASS
					30	-10.24	-0.00409	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	-7.77	-0.0031	PASS
					50	-8.27	-0.0033	PASS
			MCH	VN	-30	-1.22	-0.00048	PASS
					-20	-7.04	-0.00278	PASS
					-10	-1.70	-0.00067	PASS
					0	-2.89	-0.00114	PASS
					10	-3.20	-0.00126	PASS
					20	-5.81	-0.00229	PASS
					30	-3.32	-0.00131	PASS
					40	-5.82	-0.0023	PASS
					50	-10.04	-0.00396	PASS
			HCH	VN	-30	-5.19	-0.00202	PASS
					-20	-2.15	-0.00084	PASS
					-10	-4.11	-0.0016	PASS
					0	1.32	0.00051	PASS
					10	-6.12	-0.00239	PASS
					20	0.13	0.00005	PASS
					30	-1.67	-0.00065	PASS
					40	-1.33	-0.00052	PASS
					50	-1.63	-0.00064	PASS
		15	LCH	VN	-30	0.13	0.00005	PASS
					-20	2.82	0.00112	PASS
					-10	-3.13	-0.00125	PASS
					0	-4.11	-0.00164	PASS
					10	-0.82	-0.00033	PASS
					20	-5.09	-0.00203	PASS
					30	-6.98	-0.00278	PASS
					40	-2.35	-0.00094	PASS
					50	-8.68	-0.00346	PASS
			MCH	VN	-30	-9.27	-0.00366	PASS
					-20	-9.17	-0.00362	PASS
					-10	-13.38	-0.00528	PASS
					0	-7.80	-0.00308	PASS
					10	-6.54	-0.00258	PASS
					20	-7.88	-0.00311	PASS
					30	-4.19	-0.00165	PASS
					40	-8.35	-0.00329	PASS
					50	-7.34	-0.0029	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			HCH	VN	-30	-0.67	-0.00026	PASS
					-20	-6.28	-0.00245	PASS
					-10	-4.01	-0.00156	PASS
					0	-5.88	-0.00229	PASS
					10	-9.13	-0.00356	PASS
					20	-5.92	-0.00231	PASS
					30	-2.27	-0.00089	PASS
					40	-10.70	-0.00418	PASS
					50	-9.86	-0.00385	PASS
			LCH	VN	-30	-3.65	-0.00145	PASS
					-20	-4.61	-0.00184	PASS
					-10	-1.65	-0.00066	PASS
					0	-0.26	-0.0001	PASS
					10	-2.35	-0.00094	PASS
					20	-3.66	-0.00146	PASS
					30	-3.69	-0.00147	PASS
					40	-2.02	-0.0008	PASS
					50	-6.75	-0.00269	PASS
		20	MCH	VN	-30	1.10	0.00043	PASS
					-20	-3.78	-0.00149	PASS
					-10	-3.03	-0.0012	PASS
					0	-2.00	-0.00079	PASS
					10	-5.42	-0.00214	PASS
					20	-0.97	-0.00038	PASS
					30	0.47	0.00019	PASS
					40	-2.30	-0.00091	PASS
					50	-1.17	-0.00046	PASS
			HCH	VN	-30	-13.49	-0.00527	PASS
					-20	-9.06	-0.00354	PASS
					-10	-8.83	-0.00345	PASS
					0	-10.71	-0.00418	PASS
					10	-4.65	-0.00182	PASS
					20	-7.42	-0.0029	PASS
					30	-6.81	-0.00266	PASS
					40	-7.24	-0.00283	PASS
					50	-4.88	-0.00191	PASS

END