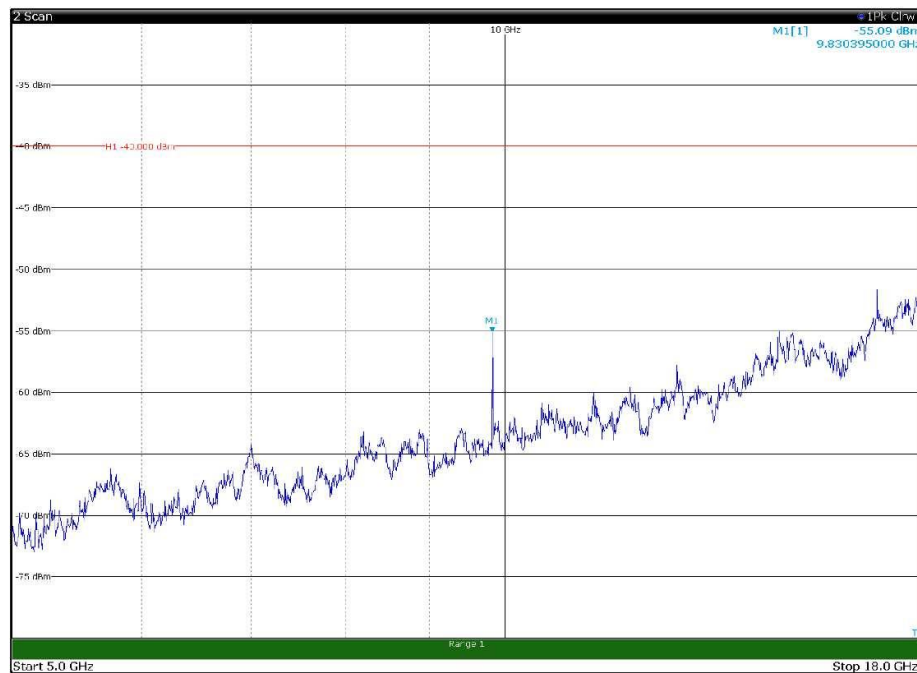
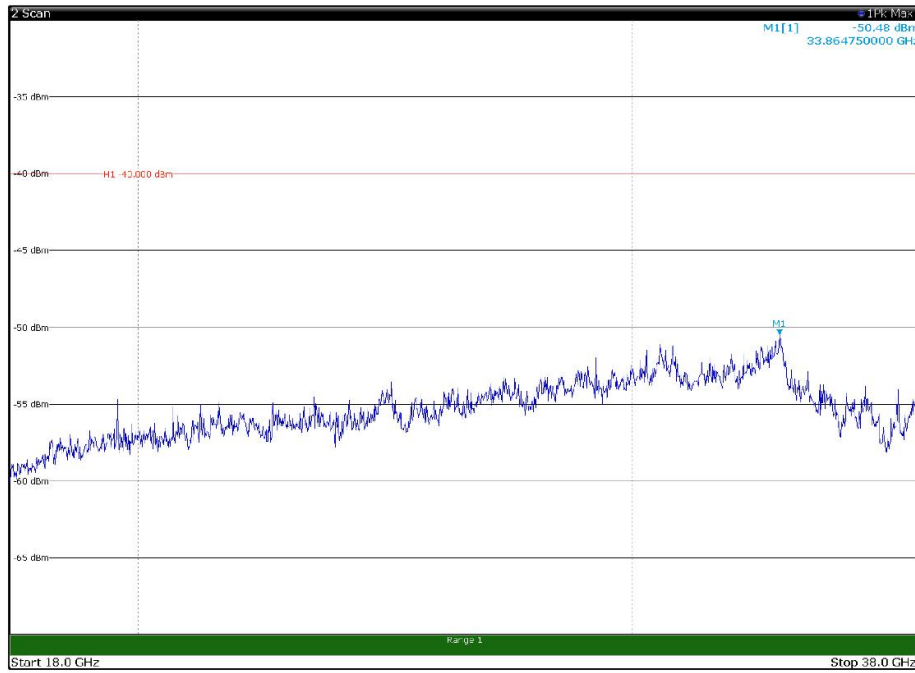


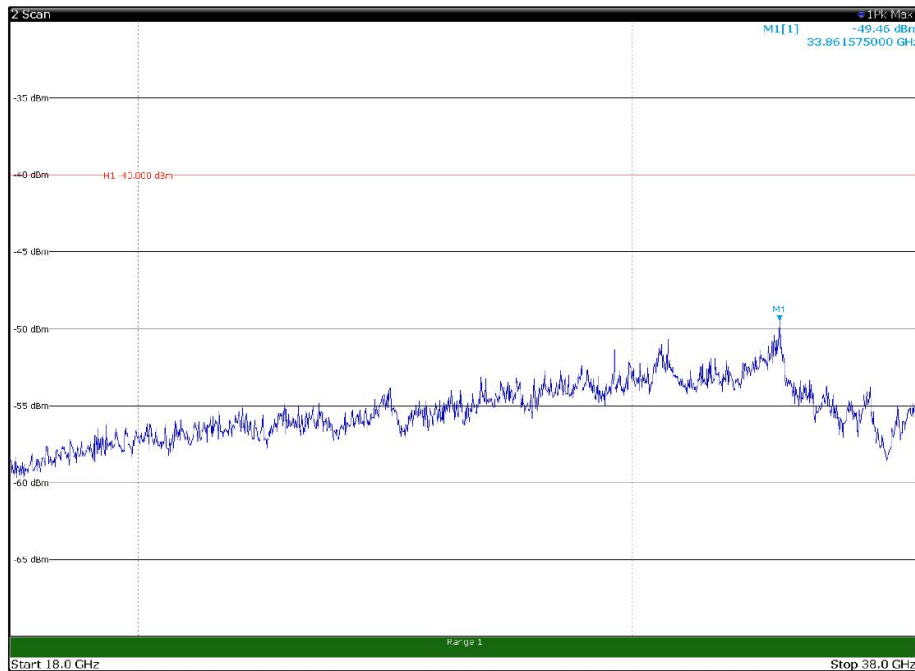
Channel: MIDDLE, Modulation: 256QAM,
BW=20MHz, Range: 5GHz - 18GHz, Polarization: Horizontal



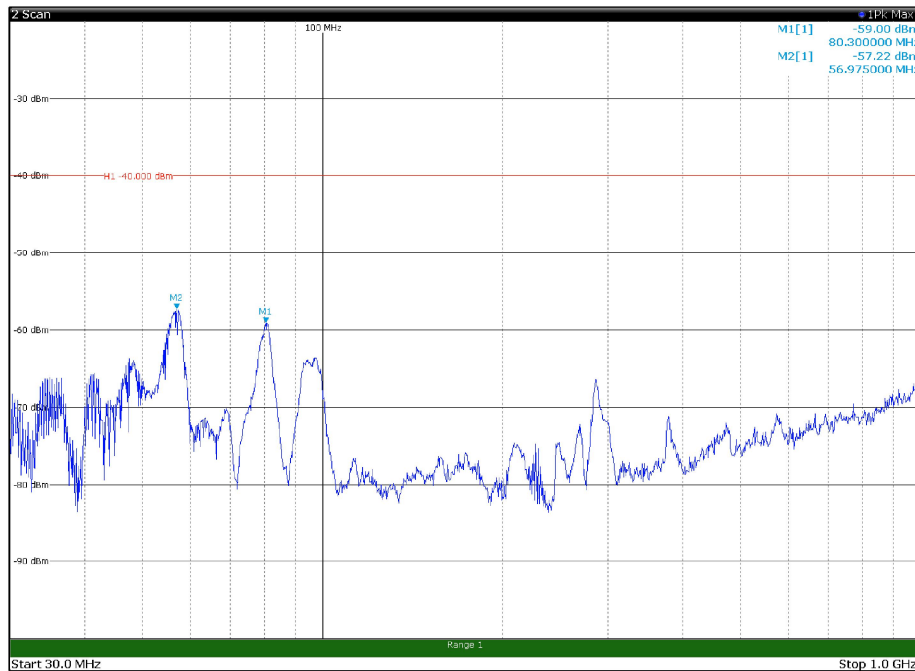
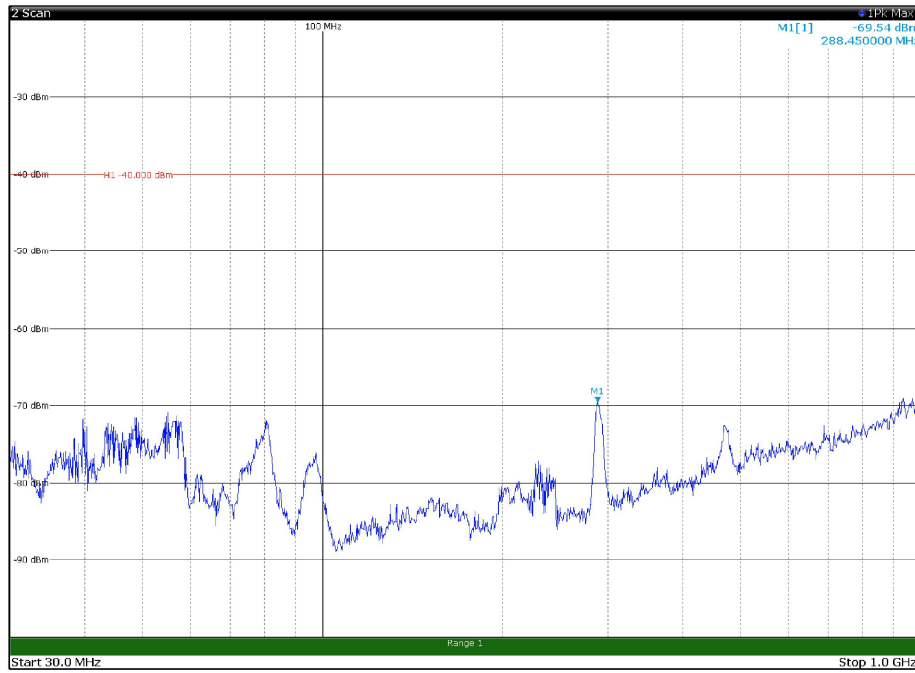
Channel: MIDDLE, Modulation: 256QAM,
BW=20MHz, Range: 5GHz - 18GHz, Polarization: Vertical

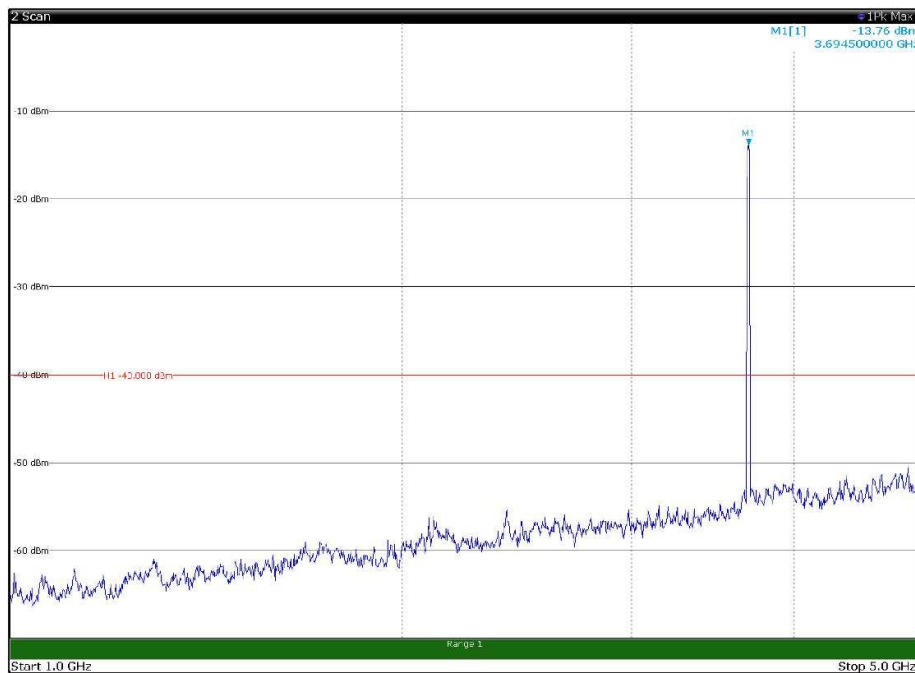
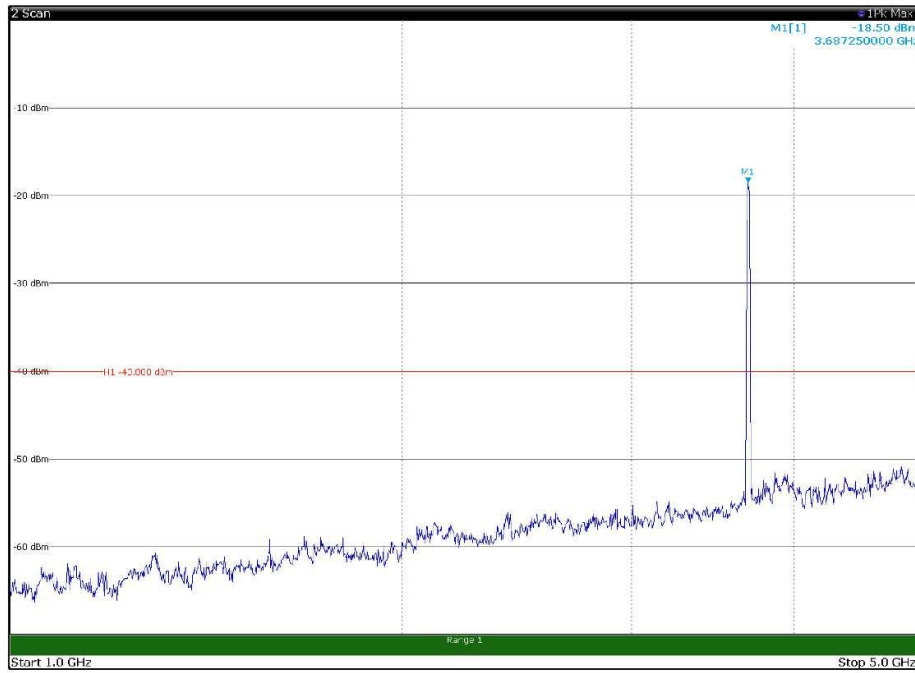


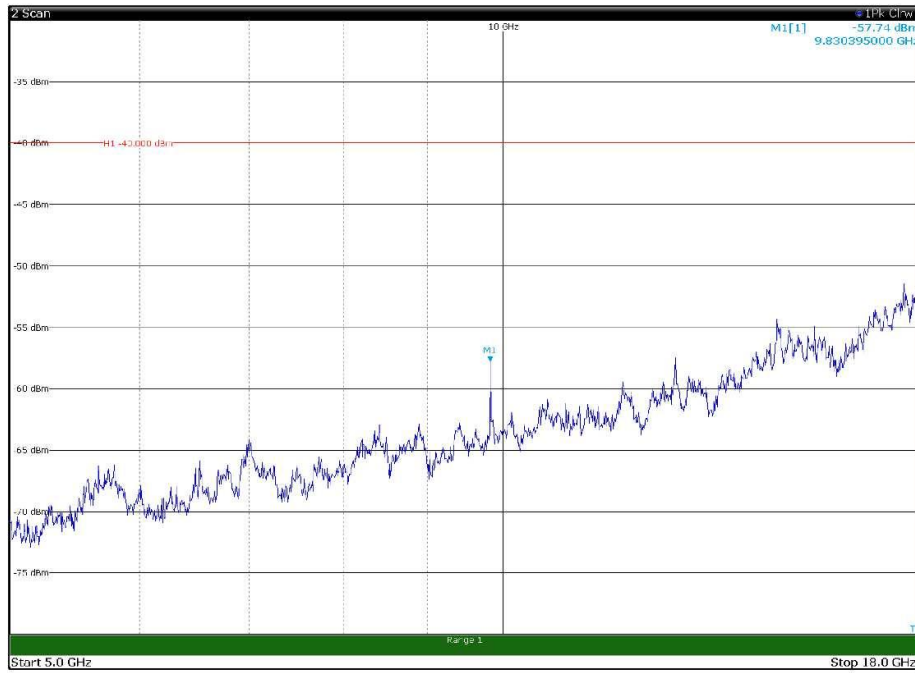
Channel: MIDDLE, Modulation: 256QAM,
BW=20MHz, Range: 18GHz - 38GHz, Polarization: Horizontal



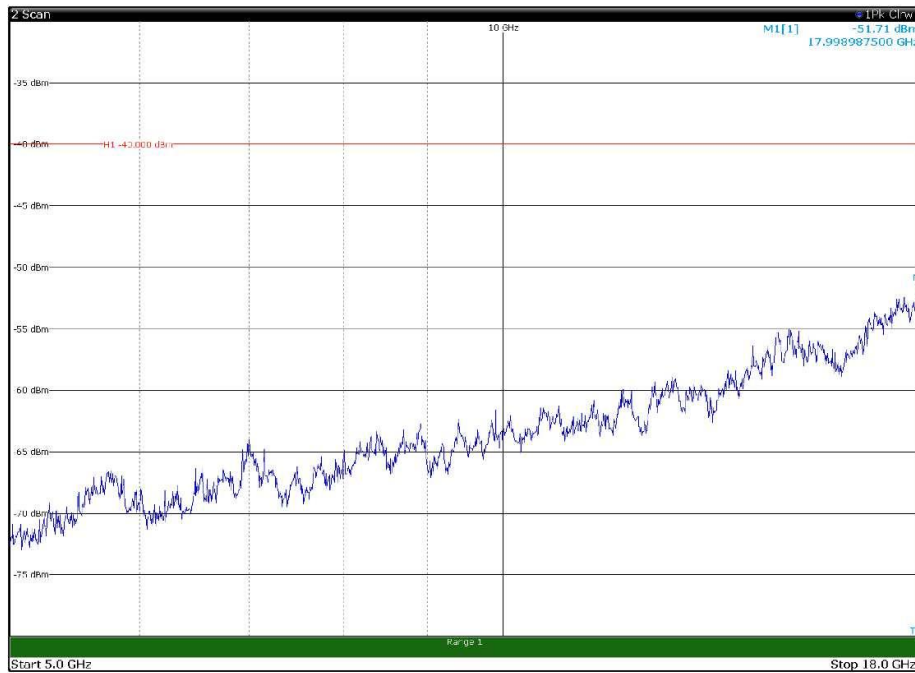
Channel: MIDDLE, Modulation: 256QAM,
BW=20MHz, Range: 18GHz - 38GHz, Polarization: Vertical



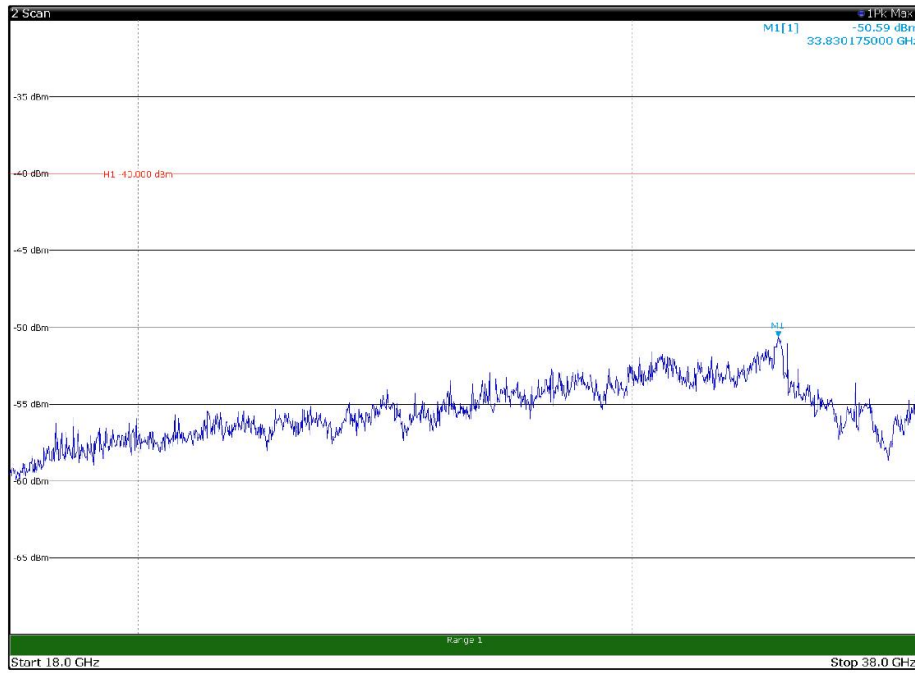




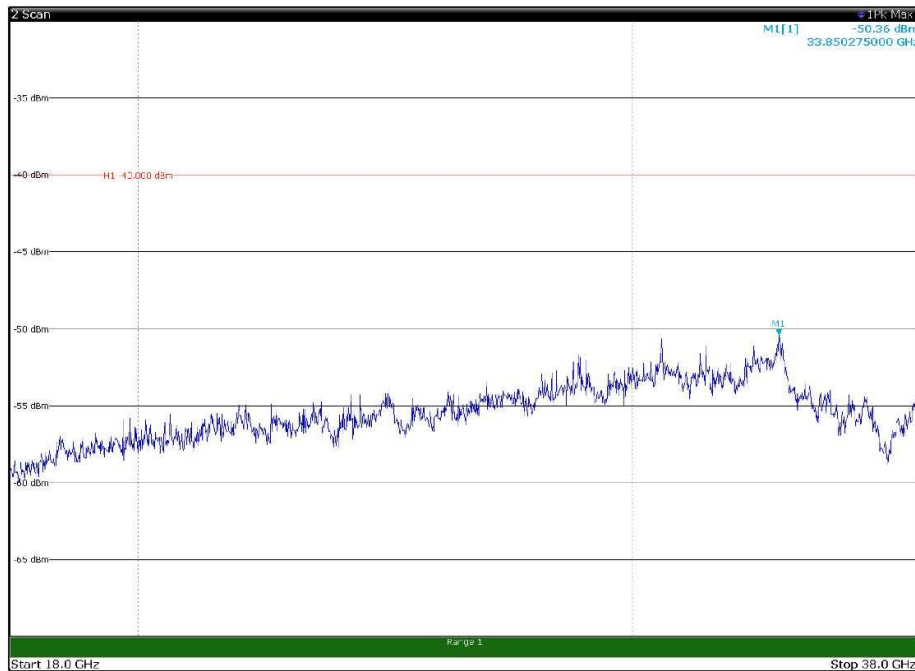
Channel: TOP, Modulation: 256QAM,
BW=20MHz, Range: 5GHz - 18GHz, Polarization: Horizontal



Channel: TOP, Modulation: 256QAM,
BW=20MHz, Range: 5GHz - 18GHz, Polarization: Vertical



Channel: TOP, Modulation: 256QAM,
BW=20MHz, Range: 18GHz - 38GHz, Polarization: Horizontal



Channel: TOP, Modulation: 256QAM,
BW=20MHz, Range: 18GHz - 38GHz, Polarization: Vertical

Clause 2.1055 Frequency stability

- (a) The frequency stability shall be measured with variation of ambient temperature as follows:
- (1) From -30° to $+50^{\circ}$ centigrade for all equipment except that specified in paragraphs (a) (2) and (3) of this section.
- (b) Frequency measurements shall be made at the extremes of the specified temperature range and at intervals of not more than 10° centigrade through the range. A period of time sufficient to stabilize all of the components of the oscillator circuit at each temperature level shall be allowed prior to frequency measurement. The short term transient effects on the frequency of the transmitter due to keying (except for broadcast transmitters) and any heating element cycling normally occurring at each ambient temperature level also shall be shown. Only the portion or portions of the transmitter containing the frequency determining and stabilizing circuitry need be subjected to the temperature variation test.
- (d) The frequency stability shall be measured with variation of primary supply voltage as follows:
- (1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

Test date: 10/21/2019 to 12/13/2019

Test results: Pass

Special notes

Test are performed at 85% (40,8Vdc) and 115% (55,2Vdc) of the primary supply voltage and the same result was found.

Clause 2.1055 Frequency stability, continued

Test data

RF PORT 1

Temperature = -30°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	67.683	mHz
BOTTOM	LTE 5 MHz	16QAM	314.35	mHz
BOTTOM	LTE 5 MHz	64QAM	-668.02	mHz
BOTTOM	LTE 5 MHz	256QAM	73.124	mHz
MIDDLE	LTE 5 MHz	QPSK	-118.87	mHz
MIDDLE	LTE 5 MHz	16QAM	154.12	mHz
MIDDLE	LTE 5 MHz	64QAM	-249.25	mHz
MIDDLE	LTE 5 MHz	256QAM	-467.48	mHz
TOP	LTE 5 MHz	QPSK	-321.72	mHz
TOP	LTE 5 MHz	16QAM	-921.72	mHz
TOP	LTE 5 MHz	64QAM	445.16	mHz
TOP	LTE 5 MHz	256QAM	205.58	mHz
BOTTOM	LTE 10 MHz	QPSK	269.36	mHz
BOTTOM	LTE 10 MHz	16QAM	-493.4	mHz
BOTTOM	LTE 10 MHz	64QAM	-49.627	mHz
BOTTOM	LTE 10 MHz	256QAM	-26.334	mHz
MIDDLE	LTE 10 MHz	QPSK	-189.21	mHz
MIDDLE	LTE 10 MHz	16QAM	54.203	mHz
MIDDLE	LTE 10 MHz	64QAM	824.87	mHz
MIDDLE	LTE 10 MHz	256QAM	-434.51	mHz
TOP	LTE 10 MHz	QPSK	75.276	mHz
TOP	LTE 10 MHz	16QAM	302.41	mHz
TOP	LTE 10 MHz	64QAM	405.29	mHz
TOP	LTE 10 MHz	256QAM	-914.27	mHz
BOTTOM	LTE 15 MHz	QPSK	250.45	mHz
BOTTOM	LTE 15 MHz	16QAM	858.37	mHz
BOTTOM	LTE 15 MHz	64QAM	539.44	mHz
BOTTOM	LTE 15 MHz	256QAM	166.99	mHz
MIDDLE	LTE 15 MHz	QPSK	618.57	mHz
MIDDLE	LTE 15 MHz	16QAM	-29.182	mHz
MIDDLE	LTE 15 MHz	64QAM	317.3	mHz
MIDDLE	LTE 15 MHz	256QAM	410.02	mHz
TOP	LTE 15 MHz	QPSK	528.5	mHz
TOP	LTE 15 MHz	16QAM	90.652	mHz
TOP	LTE 15 MHz	64QAM	83.102	mHz
TOP	LTE 15 MHz	256QAM	-257.65	mHz
BOTTOM	LTE 20 MHz	QPSK	50.402	mHz
BOTTOM	LTE 20 MHz	16QAM	686.72	mHz
BOTTOM	LTE 20 MHz	64QAM	-12.86	mHz
BOTTOM	LTE 20 MHz	256QAM	82.793	mHz
MIDDLE	LTE 20 MHz	QPSK	-898.31	mHz
MIDDLE	LTE 20 MHz	16QAM	-67.079	mHz
MIDDLE	LTE 20 MHz	64QAM	-263.7	mHz
MIDDLE	LTE 20 MHz	256QAM	-1.3956	Hz
TOP	LTE 20 MHz	QPSK	-990.86	mHz
TOP	LTE 20 MHz	16QAM	-32.461	mHz
TOP	LTE 20 MHz	64QAM	-1.606	Hz
TOP	LTE 20 MHz	256QAM	246.37	mHz

Temperature = -20°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	631	mHz
BOTTOM	LTE 5 MHz	16QAM	-627	mHz
BOTTOM	LTE 5 MHz	64QAM	-60	mHz
BOTTOM	LTE 5 MHz	256QAM	-863	mHz
MIDDLE	LTE 5 MHz	QPSK	-317	mHz
MIDDLE	LTE 5 MHz	16QAM	-838	mHz
MIDDLE	LTE 5 MHz	64QAM	-414	mHz
MIDDLE	LTE 5 MHz	256QAM	1.023	Hz
TOP	LTE 5 MHz	QPSK	733	mHz
TOP	LTE 5 MHz	16QAM	285	mHz
TOP	LTE 5 MHz	64QAM	362	mHz
TOP	LTE 5 MHz	256QAM	-150	mHz
BOTTOM	LTE 10 MHz	QPSK	-1.39	Hz
BOTTOM	LTE 10 MHz	16QAM	-1.268	Hz
BOTTOM	LTE 10 MHz	64QAM	-1.423	Hz
BOTTOM	LTE 10 MHz	256QAM	181	mHz
MIDDLE	LTE 10 MHz	QPSK	445	mHz
MIDDLE	LTE 10 MHz	16QAM	-1.357	Hz
MIDDLE	LTE 10 MHz	64QAM	-550	mHz
MIDDLE	LTE 10 MHz	256QAM	1.226	Hz
TOP	LTE 10 MHz	QPSK	586	mHz
TOP	LTE 10 MHz	16QAM	564	mHz
TOP	LTE 10 MHz	64QAM	-275	mHz
TOP	LTE 10 MHz	256QAM	-1.271	Hz
BOTTOM	LTE 15 MHz	QPSK	-1.085	Hz
BOTTOM	LTE 15 MHz	16QAM	907	mHz
BOTTOM	LTE 15 MHz	64QAM	-1.241	Hz
BOTTOM	LTE 15 MHz	256QAM	1.409	Hz
MIDDLE	LTE 15 MHz	QPSK	-599	mHz
MIDDLE	LTE 15 MHz	16QAM	-14	mHz
MIDDLE	LTE 15 MHz	64QAM	-1.07	Hz
MIDDLE	LTE 15 MHz	256QAM	569	mHz
TOP	LTE 15 MHz	QPSK	382	mHz
TOP	LTE 15 MHz	16QAM	-739	mHz
TOP	LTE 15 MHz	64QAM	1.12	Hz
TOP	LTE 15 MHz	256QAM	-30	mHz
BOTTOM	LTE 20 MHz	QPSK	1.177	Hz
BOTTOM	LTE 20 MHz	16QAM	1.13	Hz
BOTTOM	LTE 20 MHz	64QAM	-823	mHz
BOTTOM	LTE 20 MHz	256QAM	-907	mHz
MIDDLE	LTE 20 MHz	QPSK	-725	mHz
MIDDLE	LTE 20 MHz	16QAM	474	mHz
MIDDLE	LTE 20 MHz	64QAM	927	mHz
MIDDLE	LTE 20 MHz	256QAM	-447	mHz
TOP	LTE 20 MHz	QPSK	-872	mHz
TOP	LTE 20 MHz	16QAM	1.077	Hz
TOP	LTE 20 MHz	64QAM	1.275	Hz
TOP	LTE 20 MHz	256QAM	-392	mHz

Temperature = -10°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	882	mHz
BOTTOM	LTE 5 MHz	16QAM	751	mHz
BOTTOM	LTE 5 MHz	64QAM	-1.152	Hz
BOTTOM	LTE 5 MHz	256QAM	-1.411	Hz
MIDDLE	LTE 5 MHz	QPSK	-1.301	Hz
MIDDLE	LTE 5 MHz	16QAM	1.185	Hz
MIDDLE	LTE 5 MHz	64QAM	-204	mHz
MIDDLE	LTE 5 MHz	256QAM	-1.352	Hz
TOP	LTE 5 MHz	QPSK	1.412	Hz
TOP	LTE 5 MHz	16QAM	1.499	Hz
TOP	LTE 5 MHz	64QAM	1.241	Hz
TOP	LTE 5 MHz	256QAM	-445	mHz
BOTTOM	LTE 10 MHz	QPSK	-709	mHz
BOTTOM	LTE 10 MHz	16QAM	-640	mHz
BOTTOM	LTE 10 MHz	64QAM	-513	mHz
BOTTOM	LTE 10 MHz	256QAM	109	mHz
MIDDLE	LTE 10 MHz	QPSK	1.231	Hz
MIDDLE	LTE 10 MHz	16QAM	1.21	Hz
MIDDLE	LTE 10 MHz	64QAM	751	mHz
MIDDLE	LTE 10 MHz	256QAM	-154	mHz
TOP	LTE 10 MHz	QPSK	799	mHz
TOP	LTE 10 MHz	16QAM	1.099	Hz
TOP	LTE 10 MHz	64QAM	1.196	Hz
TOP	LTE 10 MHz	256QAM	6	mHz
BOTTOM	LTE 15 MHz	QPSK	204	mHz
BOTTOM	LTE 15 MHz	16QAM	910	mHz
BOTTOM	LTE 15 MHz	64QAM	-289	mHz
BOTTOM	LTE 15 MHz	256QAM	-421	mHz
MIDDLE	LTE 15 MHz	QPSK	-727	mHz
MIDDLE	LTE 15 MHz	16QAM	-1.143	Hz
MIDDLE	LTE 15 MHz	64QAM	-46	mHz
MIDDLE	LTE 15 MHz	256QAM	-915	mHz
TOP	LTE 15 MHz	QPSK	-1.183	Hz
TOP	LTE 15 MHz	16QAM	-354	mHz
TOP	LTE 15 MHz	64QAM	1.061	Hz
TOP	LTE 15 MHz	256QAM	338	mHz
BOTTOM	LTE 20 MHz	QPSK	-767	mHz
BOTTOM	LTE 20 MHz	16QAM	1.433	Hz
BOTTOM	LTE 20 MHz	64QAM	-1.236	Hz
BOTTOM	LTE 20 MHz	256QAM	-367	mHz
MIDDLE	LTE 20 MHz	QPSK	489	mHz
MIDDLE	LTE 20 MHz	16QAM	13	mHz
MIDDLE	LTE 20 MHz	64QAM	329	mHz
MIDDLE	LTE 20 MHz	256QAM	-268	mHz
TOP	LTE 20 MHz	QPSK	981	mHz
TOP	LTE 20 MHz	16QAM	-1.474	Hz
TOP	LTE 20 MHz	64QAM	1.089	Hz
TOP	LTE 20 MHz	256QAM	368	mHz

Temperature = 0°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-1.137	Hz
BOTTOM	LTE 5 MHz	16QAM	-805	mHz
BOTTOM	LTE 5 MHz	64QAM	512	mHz
BOTTOM	LTE 5 MHz	256QAM	74	mHz
MIDDLE	LTE 5 MHz	QPSK	-839.610	mHz
MIDDLE	LTE 5 MHz	16QAM	-1.093	Hz
MIDDLE	LTE 5 MHz	64QAM	265.610	mHz
MIDDLE	LTE 5 MHz	256QAM	893.270	mHz
TOP	LTE 5 MHz	QPSK	-1.19	Hz
TOP	LTE 5 MHz	16QAM	-173	mHz
TOP	LTE 5 MHz	64QAM	-1.434	Hz
TOP	LTE 5 MHz	256QAM	896	mHz
BOTTOM	LTE 10 MHz	QPSK	1.316	Hz
BOTTOM	LTE 10 MHz	16QAM	350	mHz
BOTTOM	LTE 10 MHz	64QAM	1.369	Hz
BOTTOM	LTE 10 MHz	256QAM	-798	mHz
MIDDLE	LTE 10 MHz	QPSK	237.150	mHz
MIDDLE	LTE 10 MHz	16QAM	614.590	mHz
MIDDLE	LTE 10 MHz	64QAM	6.504	Hz
MIDDLE	LTE 10 MHz	256QAM	-881.580	mHz
TOP	LTE 10 MHz	QPSK	384	mHz
TOP	LTE 10 MHz	16QAM	767	mHz
TOP	LTE 10 MHz	64QAM	-1.218	Hz
TOP	LTE 10 MHz	256QAM	-802	mHz
BOTTOM	LTE 15 MHz	QPSK	-1.456	Hz
BOTTOM	LTE 15 MHz	16QAM	-1.084	Hz
BOTTOM	LTE 15 MHz	64QAM	684	mHz
BOTTOM	LTE 15 MHz	256QAM	-88	mHz
MIDDLE	LTE 15 MHz	QPSK	956.190	mHz
MIDDLE	LTE 15 MHz	16QAM	223.400	mHz
MIDDLE	LTE 15 MHz	64QAM	-824.690	mHz
MIDDLE	LTE 15 MHz	256QAM	1.111	Hz
TOP	LTE 15 MHz	QPSK	-1.123	Hz
TOP	LTE 15 MHz	16QAM	-912	mHz
TOP	LTE 15 MHz	64QAM	1.237	Hz
TOP	LTE 15 MHz	256QAM	-1.069	Hz
BOTTOM	LTE 20 MHz	QPSK	1.397	Hz
BOTTOM	LTE 20 MHz	16QAM	-392	mHz
BOTTOM	LTE 20 MHz	64QAM	-169	mHz
BOTTOM	LTE 20 MHz	256QAM	1.364	Hz
MIDDLE	LTE 20 MHz	QPSK	17.932	mHz
MIDDLE	LTE 20 MHz	16QAM	1.123	Hz
MIDDLE	LTE 20 MHz	64QAM	452.370	mHz
MIDDLE	LTE 20 MHz	256QAM	463.960	mHz
TOP	LTE 20 MHz	QPSK	-868	mHz
TOP	LTE 20 MHz	16QAM	1.331	Hz
TOP	LTE 20 MHz	64QAM	-1.407	Hz
TOP	LTE 20 MHz	256QAM	-643	mHz

Temperature = 10°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	157	mHz
BOTTOM	LTE 5 MHz	16QAM	-1.272	Hz
BOTTOM	LTE 5 MHz	64QAM	-12	mHz
BOTTOM	LTE 5 MHz	256QAM	115	mHz
MIDDLE	LTE 5 MHz	QPSK	1.412	Hz
MIDDLE	LTE 5 MHz	16QAM	475	mHz
MIDDLE	LTE 5 MHz	64QAM	-479	mHz
MIDDLE	LTE 5 MHz	256QAM	440	mHz
TOP	LTE 5 MHz	QPSK	922	mHz
TOP	LTE 5 MHz	16QAM	-237	mHz
TOP	LTE 5 MHz	64QAM	-1.049	Hz
TOP	LTE 5 MHz	256QAM	-1.245	Hz
BOTTOM	LTE 10 MHz	QPSK	-480	mHz
BOTTOM	LTE 10 MHz	16QAM	-884	mHz
BOTTOM	LTE 10 MHz	64QAM	-637	mHz
BOTTOM	LTE 10 MHz	256QAM	455	mHz
MIDDLE	LTE 10 MHz	QPSK	335	mHz
MIDDLE	LTE 10 MHz	16QAM	-242	mHz
MIDDLE	LTE 10 MHz	64QAM	331	mHz
MIDDLE	LTE 10 MHz	256QAM	-949	mHz
TOP	LTE 10 MHz	QPSK	902	mHz
TOP	LTE 10 MHz	16QAM	990	mHz
TOP	LTE 10 MHz	64QAM	297	mHz
TOP	LTE 10 MHz	256QAM	-1.385	Hz
BOTTOM	LTE 15 MHz	QPSK	-694	mHz
BOTTOM	LTE 15 MHz	16QAM	298	mHz
BOTTOM	LTE 15 MHz	64QAM	-42	mHz
BOTTOM	LTE 15 MHz	256QAM	1.366	Hz
MIDDLE	LTE 15 MHz	QPSK	-942	mHz
MIDDLE	LTE 15 MHz	16QAM	452	mHz
MIDDLE	LTE 15 MHz	64QAM	209	mHz
MIDDLE	LTE 15 MHz	256QAM	1.471	Hz
TOP	LTE 15 MHz	QPSK	313	mHz
TOP	LTE 15 MHz	16QAM	-1.083	Hz
TOP	LTE 15 MHz	64QAM	184	mHz
TOP	LTE 15 MHz	256QAM	275	mHz
BOTTOM	LTE 20 MHz	QPSK	795	mHz
BOTTOM	LTE 20 MHz	16QAM	-280	mHz
BOTTOM	LTE 20 MHz	64QAM	-560	mHz
BOTTOM	LTE 20 MHz	256QAM	917	mHz
MIDDLE	LTE 20 MHz	QPSK	805	mHz
MIDDLE	LTE 20 MHz	16QAM	-1.005	Hz
MIDDLE	LTE 20 MHz	64QAM	-96	mHz
MIDDLE	LTE 20 MHz	256QAM	815	mHz
TOP	LTE 20 MHz	QPSK	-639	mHz
TOP	LTE 20 MHz	16QAM	1.232	Hz
TOP	LTE 20 MHz	64QAM	-1.32	Hz
TOP	LTE 20 MHz	256QAM	225	mHz

Temperature = 20°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	795.030	mHz
BOTTOM	LTE 5 MHz	16QAM	271.600	mHz
BOTTOM	LTE 5 MHz	64QAM	884.900	mHz
BOTTOM	LTE 5 MHz	256QAM	714.000	mHz
MIDDLE	LTE 5 MHz	QPSK	948.680	mHz
MIDDLE	LTE 5 MHz	16QAM	-854.090	mHz
MIDDLE	LTE 5 MHz	64QAM	-199.810	mHz
MIDDLE	LTE 5 MHz	256QAM	113.680	mHz
TOP	LTE 5 MHz	QPSK	-652.030	mHz
TOP	LTE 5 MHz	16QAM	-1.118	Hz
TOP	LTE 5 MHz	64QAM	1.975	Hz
TOP	LTE 5 MHz	256QAM	-610.070	mHz
BOTTOM	LTE 10 MHz	QPSK	-360.780	mHz
BOTTOM	LTE 10 MHz	16QAM	930.890	mHz
BOTTOM	LTE 10 MHz	64QAM	-566.760	mHz
BOTTOM	LTE 10 MHz	256QAM	-69.704	mHz
MIDDLE	LTE 10 MHz	QPSK	-517.130	mHz
MIDDLE	LTE 10 MHz	16QAM	-755.600	mHz
MIDDLE	LTE 10 MHz	64QAM	-928.960	mHz
MIDDLE	LTE 10 MHz	256QAM	16.019	mHz
TOP	LTE 10 MHz	QPSK	-77.429	mHz
TOP	LTE 10 MHz	16QAM	-97.926	mHz
TOP	LTE 10 MHz	64QAM	724.740	mHz
TOP	LTE 10 MHz	256QAM	507.070	mHz
BOTTOM	LTE 15 MHz	QPSK	134.630	mHz
BOTTOM	LTE 15 MHz	16QAM	336.110	mHz
BOTTOM	LTE 15 MHz	64QAM	-641.810	mHz
BOTTOM	LTE 15 MHz	256QAM	703.260	mHz
MIDDLE	LTE 15 MHz	QPSK	-866.650	mHz
MIDDLE	LTE 15 MHz	16QAM	-371.200	mHz
MIDDLE	LTE 15 MHz	64QAM	-535.370	mHz
MIDDLE	LTE 15 MHz	256QAM	743.030	mHz
TOP	LTE 15 MHz	QPSK	-602.400	mHz
TOP	LTE 15 MHz	16QAM	494.490	mHz
TOP	LTE 15 MHz	64QAM	309.390	mHz
TOP	LTE 15 MHz	256QAM	-136.760	mHz
BOTTOM	LTE 20 MHz	QPSK	-135.150	mHz
BOTTOM	LTE 20 MHz	16QAM	-1.228	Hz
BOTTOM	LTE 20 MHz	64QAM	632.290	mHz
BOTTOM	LTE 20 MHz	256QAM	235.410	mHz
MIDDLE	LTE 20 MHz	QPSK	-633.240	mHz
MIDDLE	LTE 20 MHz	16QAM	-1.066	Hz
MIDDLE	LTE 20 MHz	64QAM	-485.770	mHz
MIDDLE	LTE 20 MHz	256QAM	-353.860	mHz
TOP	LTE 20 MHz	QPSK	-457.650	mHz
TOP	LTE 20 MHz	16QAM	649.450	mHz
TOP	LTE 20 MHz	64QAM	-185.030	mHz
TOP	LTE 20 MHz	256QAM	-168.130	mHz

Temperature = 30°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	285	mHz
BOTTOM	LTE 5 MHz	16QAM	630	mHz
BOTTOM	LTE 5 MHz	64QAM	484	mHz
BOTTOM	LTE 5 MHz	256QAM	-583	mHz
MIDDLE	LTE 5 MHz	QPSK	-602	mHz
MIDDLE	LTE 5 MHz	16QAM	566	mHz
MIDDLE	LTE 5 MHz	64QAM	270	mHz
MIDDLE	LTE 5 MHz	256QAM	-549	mHz
TOP	LTE 5 MHz	QPSK	-203	mHz
TOP	LTE 5 MHz	16QAM	34	mHz
TOP	LTE 5 MHz	64QAM	-78	mHz
TOP	LTE 5 MHz	256QAM	-89	mHz
BOTTOM	LTE 10 MHz	QPSK	366	mHz
BOTTOM	LTE 10 MHz	16QAM	1.079	Hz
BOTTOM	LTE 10 MHz	64QAM	383	mHz
BOTTOM	LTE 10 MHz	256QAM	1.319	Hz
MIDDLE	LTE 10 MHz	QPSK	1.256	Hz
MIDDLE	LTE 10 MHz	16QAM	-133	mHz
MIDDLE	LTE 10 MHz	64QAM	1.299	Hz
MIDDLE	LTE 10 MHz	256QAM	353	mHz
TOP	LTE 10 MHz	QPSK	1.36	Hz
TOP	LTE 10 MHz	16QAM	1.333	Hz
TOP	LTE 10 MHz	64QAM	474	mHz
TOP	LTE 10 MHz	256QAM	71	mHz
BOTTOM	LTE 15 MHz	QPSK	1.269	Hz
BOTTOM	LTE 15 MHz	16QAM	725	mHz
BOTTOM	LTE 15 MHz	64QAM	1.493	Hz
BOTTOM	LTE 15 MHz	256QAM	-1.041	Hz
MIDDLE	LTE 15 MHz	QPSK	-262	mHz
MIDDLE	LTE 15 MHz	16QAM	-1.459	Hz
MIDDLE	LTE 15 MHz	64QAM	1.144	Hz
MIDDLE	LTE 15 MHz	256QAM	1.133	Hz
TOP	LTE 15 MHz	QPSK	-782	mHz
TOP	LTE 15 MHz	16QAM	1.259	Hz
TOP	LTE 15 MHz	64QAM	-593	mHz
TOP	LTE 15 MHz	256QAM	891	mHz
BOTTOM	LTE 20 MHz	QPSK	-1.146	Hz
BOTTOM	LTE 20 MHz	16QAM	-1.412	Hz
BOTTOM	LTE 20 MHz	64QAM	-627	mHz
BOTTOM	LTE 20 MHz	256QAM	816	mHz
MIDDLE	LTE 20 MHz	QPSK	-1.411	Hz
MIDDLE	LTE 20 MHz	16QAM	-1.106	Hz
MIDDLE	LTE 20 MHz	64QAM	357	mHz
MIDDLE	LTE 20 MHz	256QAM	-920	mHz
TOP	LTE 20 MHz	QPSK	-937	mHz
TOP	LTE 20 MHz	16QAM	1.387	Hz
TOP	LTE 20 MHz	64QAM	-62	mHz
TOP	LTE 20 MHz	256QAM	-72	mHz

Temperature = 40°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-144	mHz
BOTTOM	LTE 5 MHz	16QAM	815	mHz
BOTTOM	LTE 5 MHz	64QAM	1.396	Hz
BOTTOM	LTE 5 MHz	256QAM	552	mHz
MIDDLE	LTE 5 MHz	QPSK	241	mHz
MIDDLE	LTE 5 MHz	16QAM	-800	mHz
MIDDLE	LTE 5 MHz	64QAM	-561	mHz
MIDDLE	LTE 5 MHz	256QAM	227	mHz
TOP	LTE 5 MHz	QPSK	-401	mHz
TOP	LTE 5 MHz	16QAM	-722	mHz
TOP	LTE 5 MHz	64QAM	-571	mHz
TOP	LTE 5 MHz	256QAM	-1.116	Hz
BOTTOM	LTE 10 MHz	QPSK	-41	mHz
BOTTOM	LTE 10 MHz	16QAM	-532	mHz
BOTTOM	LTE 10 MHz	64QAM	346	mHz
BOTTOM	LTE 10 MHz	256QAM	1.109	Hz
MIDDLE	LTE 10 MHz	QPSK	-312	mHz
MIDDLE	LTE 10 MHz	16QAM	-559	mHz
MIDDLE	LTE 10 MHz	64QAM	-1.35	Hz
MIDDLE	LTE 10 MHz	256QAM	289	mHz
TOP	LTE 10 MHz	QPSK	-29	mHz
TOP	LTE 10 MHz	16QAM	-90	mHz
TOP	LTE 10 MHz	64QAM	-1.398	Hz
TOP	LTE 10 MHz	256QAM	-460	mHz
BOTTOM	LTE 15 MHz	QPSK	-732	mHz
BOTTOM	LTE 15 MHz	16QAM	935	mHz
BOTTOM	LTE 15 MHz	64QAM	405	mHz
BOTTOM	LTE 15 MHz	256QAM	1.019	Hz
MIDDLE	LTE 15 MHz	QPSK	1.386	Hz
MIDDLE	LTE 15 MHz	16QAM	485	mHz
MIDDLE	LTE 15 MHz	64QAM	1.176	Hz
MIDDLE	LTE 15 MHz	256QAM	860	mHz
TOP	LTE 15 MHz	QPSK	-529	mHz
TOP	LTE 15 MHz	16QAM	891	mHz
TOP	LTE 15 MHz	64QAM	474	mHz
TOP	LTE 15 MHz	256QAM	594	mHz
BOTTOM	LTE 20 MHz	QPSK	460	mHz
BOTTOM	LTE 20 MHz	16QAM	1.007	Hz
BOTTOM	LTE 20 MHz	64QAM	-1.5	Hz
BOTTOM	LTE 20 MHz	256QAM	167	mHz
MIDDLE	LTE 20 MHz	QPSK	85	mHz
MIDDLE	LTE 20 MHz	16QAM	1.383	Hz
MIDDLE	LTE 20 MHz	64QAM	-286	mHz
MIDDLE	LTE 20 MHz	256QAM	65	mHz
TOP	LTE 20 MHz	QPSK	1.078	Hz
TOP	LTE 20 MHz	16QAM	-1.399	Hz
TOP	LTE 20 MHz	64QAM	-455	mHz
TOP	LTE 20 MHz	256QAM	1.356	Hz

Temperature = 50°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-834.280	mHz
BOTTOM	LTE 5 MHz	16QAM	-991.410	mHz
BOTTOM	LTE 5 MHz	64QAM	608.310	mHz
BOTTOM	LTE 5 MHz	256QAM	-950.810	mHz
MIDDLE	LTE 5 MHz	QPSK	-586.160	mHz
MIDDLE	LTE 5 MHz	16QAM	952.530	mHz
MIDDLE	LTE 5 MHz	64QAM	806.100	mHz
MIDDLE	LTE 5 MHz	256QAM	-170.420	mHz
TOP	LTE 5 MHz	QPSK	-866.440	mHz
TOP	LTE 5 MHz	16QAM	591.980	mHz
TOP	LTE 5 MHz	64QAM	963.170	mHz
TOP	LTE 5 MHz	256QAM	295.980	mHz
BOTTOM	LTE 10 MHz	QPSK	-301.550	mHz
BOTTOM	LTE 10 MHz	16QAM	-1.727	Hz
BOTTOM	LTE 10 MHz	64QAM	-150.610	mHz
BOTTOM	LTE 10 MHz	256QAM	80.489	mHz
MIDDLE	LTE 10 MHz	QPSK	-913.960	mHz
MIDDLE	LTE 10 MHz	16QAM	142.900	mHz
MIDDLE	LTE 10 MHz	64QAM	-1.320	Hz
MIDDLE	LTE 10 MHz	256QAM	1.029	Hz
TOP	LTE 10 MHz	QPSK	282.220	mHz
TOP	LTE 10 MHz	16QAM	1.240	Hz
TOP	LTE 10 MHz	64QAM	-588.530	mHz
TOP	LTE 10 MHz	256QAM	523.340	mHz
BOTTOM	LTE 15 MHz	QPSK	18.535	mHz
BOTTOM	LTE 15 MHz	16QAM	3.094	Hz
BOTTOM	LTE 15 MHz	64QAM	1.086	Hz
BOTTOM	LTE 15 MHz	256QAM	-762.690	mHz
MIDDLE	LTE 15 MHz	QPSK	757.610	mHz
MIDDLE	LTE 15 MHz	16QAM	-977.520	mHz
MIDDLE	LTE 15 MHz	64QAM	595.650	mHz
MIDDLE	LTE 15 MHz	256QAM	429.470	mHz
TOP	LTE 15 MHz	QPSK	-62.738	mHz
TOP	LTE 15 MHz	16QAM	-64.770	mHz
TOP	LTE 15 MHz	64QAM	919.250	mHz
TOP	LTE 15 MHz	256QAM	232.140	mHz
BOTTOM	LTE 20 MHz	QPSK	-958.500	mHz
BOTTOM	LTE 20 MHz	16QAM	456.720	mHz
BOTTOM	LTE 20 MHz	64QAM	953.110	mHz
BOTTOM	LTE 20 MHz	256QAM	51.370	mHz
MIDDLE	LTE 20 MHz	QPSK	-356.610	mHz
MIDDLE	LTE 20 MHz	16QAM	975.570	mHz
MIDDLE	LTE 20 MHz	64QAM	99.139	mHz
MIDDLE	LTE 20 MHz	256QAM	307.000	mHz
TOP	LTE 20 MHz	QPSK	503.220	mHz
TOP	LTE 20 MHz	16QAM	819.060	mHz
TOP	LTE 20 MHz	64QAM	1.896	Hz
TOP	LTE 20 MHz	256QAM	-489.740	mHz

RF PORT 2

Temperature = -30°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	271	mHz
BOTTOM	LTE 5 MHz	16QAM	-1.475	Hz
BOTTOM	LTE 5 MHz	64QAM	1.158	Hz
BOTTOM	LTE 5 MHz	256QAM	1.105	Hz
MIDDLE	LTE 5 MHz	QPSK	-817.020	mHz
MIDDLE	LTE 5 MHz	16QAM	-568.120	mHz
MIDDLE	LTE 5 MHz	64QAM	321.880	mHz
MIDDLE	LTE 5 MHz	256QAM	-633.800	mHz
TOP	LTE 5 MHz	QPSK	-940	mHz
TOP	LTE 5 MHz	16QAM	-50	mHz
TOP	LTE 5 MHz	64QAM	-1.357	Hz
TOP	LTE 5 MHz	256QAM	205	mHz
BOTTOM	LTE 10 MHz	QPSK	-773	mHz
BOTTOM	LTE 10 MHz	16QAM	-126	mHz
BOTTOM	LTE 10 MHz	64QAM	735	mHz
BOTTOM	LTE 10 MHz	256QAM	-373	mHz
MIDDLE	LTE 10 MHz	QPSK	688	mHz
MIDDLE	LTE 10 MHz	16QAM	-469.22	mHz
MIDDLE	LTE 10 MHz	64QAM	498.06	mHz
MIDDLE	LTE 10 MHz	256QAM	-197.52	mHz
TOP	LTE 10 MHz	QPSK	829	mHz
TOP	LTE 10 MHz	16QAM	-527	mHz
TOP	LTE 10 MHz	64QAM	206	mHz
TOP	LTE 10 MHz	256QAM	-170	mHz
BOTTOM	LTE 15 MHz	QPSK	311	mHz
BOTTOM	LTE 15 MHz	16QAM	-669	mHz
BOTTOM	LTE 15 MHz	64QAM	-752	mHz
BOTTOM	LTE 15 MHz	256QAM	-209	mHz
MIDDLE	LTE 15 MHz	QPSK	-312.260	mHz
MIDDLE	LTE 15 MHz	16QAM	-1.001	Hz
MIDDLE	LTE 15 MHz	64QAM	699.570	mHz
MIDDLE	LTE 15 MHz	256QAM	-783.840	mHz
TOP	LTE 15 MHz	QPSK	-656	mHz
TOP	LTE 15 MHz	16QAM	1.455	Hz
TOP	LTE 15 MHz	64QAM	-955	mHz
TOP	LTE 15 MHz	256QAM	-429	mHz
BOTTOM	LTE 20 MHz	QPSK	235	mHz
BOTTOM	LTE 20 MHz	16QAM	766	mHz
BOTTOM	LTE 20 MHz	64QAM	1.104	Hz
BOTTOM	LTE 20 MHz	256QAM	754	mHz
MIDDLE	LTE 20 MHz	QPSK	-484	mHz
MIDDLE	LTE 20 MHz	16QAM	186.570	mHz
MIDDLE	LTE 20 MHz	64QAM	-6.619	Hz
MIDDLE	LTE 20 MHz	256QAM	562.320	mHz
TOP	LTE 20 MHz	QPSK	965.240	mHz
TOP	LTE 20 MHz	16QAM	1.339	Hz
TOP	LTE 20 MHz	64QAM	159	mHz
TOP	LTE 20 MHz	256QAM	497	mHz

Temperature = -20°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-102	mHz
BOTTOM	LTE 5 MHz	16QAM	478	mHz
BOTTOM	LTE 5 MHz	64QAM	-994	mHz
BOTTOM	LTE 5 MHz	256QAM	1.101	Hz
MIDDLE	LTE 5 MHz	QPSK	1.09	Hz
MIDDLE	LTE 5 MHz	16QAM	1.076	Hz
MIDDLE	LTE 5 MHz	64QAM	-250	mHz
MIDDLE	LTE 5 MHz	256QAM	-866	mHz
TOP	LTE 5 MHz	QPSK	360	mHz
TOP	LTE 5 MHz	16QAM	120	mHz
TOP	LTE 5 MHz	64QAM	-1.26	Hz
TOP	LTE 5 MHz	256QAM	8	mHz
BOTTOM	LTE 10 MHz	QPSK	-439	mHz
BOTTOM	LTE 10 MHz	16QAM	98	mHz
BOTTOM	LTE 10 MHz	64QAM	69	mHz
BOTTOM	LTE 10 MHz	256QAM	-933	mHz
MIDDLE	LTE 10 MHz	QPSK	-925	mHz
MIDDLE	LTE 10 MHz	16QAM	902	mHz
MIDDLE	LTE 10 MHz	64QAM	-21	mHz
MIDDLE	LTE 10 MHz	256QAM	-1.129	Hz
TOP	LTE 10 MHz	QPSK	1.392	Hz
TOP	LTE 10 MHz	16QAM	-967	mHz
TOP	LTE 10 MHz	64QAM	-80	mHz
TOP	LTE 10 MHz	256QAM	489	mHz
BOTTOM	LTE 15 MHz	QPSK	601	mHz
BOTTOM	LTE 15 MHz	16QAM	-837	mHz
BOTTOM	LTE 15 MHz	64QAM	542	mHz
BOTTOM	LTE 15 MHz	256QAM	-233	mHz
MIDDLE	LTE 15 MHz	QPSK	574	mHz
MIDDLE	LTE 15 MHz	16QAM	873	mHz
MIDDLE	LTE 15 MHz	64QAM	75	mHz
MIDDLE	LTE 15 MHz	256QAM	768	mHz
TOP	LTE 15 MHz	QPSK	-912	mHz
TOP	LTE 15 MHz	16QAM	1.096	Hz
TOP	LTE 15 MHz	64QAM	-1.422	Hz
TOP	LTE 15 MHz	256QAM	860	mHz
BOTTOM	LTE 20 MHz	QPSK	572	mHz
BOTTOM	LTE 20 MHz	16QAM	-599	mHz
BOTTOM	LTE 20 MHz	64QAM	-1.243	Hz
BOTTOM	LTE 20 MHz	256QAM	791	mHz
MIDDLE	LTE 20 MHz	QPSK	761	mHz
MIDDLE	LTE 20 MHz	16QAM	-1.146	Hz
MIDDLE	LTE 20 MHz	64QAM	-1.307	Hz
MIDDLE	LTE 20 MHz	256QAM	569	mHz
TOP	LTE 20 MHz	QPSK	-760	mHz
TOP	LTE 20 MHz	16QAM	-1.476	Hz
TOP	LTE 20 MHz	64QAM	-177	mHz
TOP	LTE 20 MHz	256QAM	-1.152	Hz

Temperature = -10°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-574	mHz
BOTTOM	LTE 5 MHz	16QAM	-832	mHz
BOTTOM	LTE 5 MHz	64QAM	749	mHz
BOTTOM	LTE 5 MHz	256QAM	1.082	Hz
MIDDLE	LTE 5 MHz	QPSK	1.053	Hz
MIDDLE	LTE 5 MHz	16QAM	432	mHz
MIDDLE	LTE 5 MHz	64QAM	-241	mHz
MIDDLE	LTE 5 MHz	256QAM	745	mHz
TOP	LTE 5 MHz	QPSK	1.402	Hz
TOP	LTE 5 MHz	16QAM	316	mHz
TOP	LTE 5 MHz	64QAM	-924	mHz
TOP	LTE 5 MHz	256QAM	-1.209	Hz
BOTTOM	LTE 10 MHz	QPSK	-724	mHz
BOTTOM	LTE 10 MHz	16QAM	-1.427	Hz
BOTTOM	LTE 10 MHz	64QAM	989	mHz
BOTTOM	LTE 10 MHz	256QAM	523	mHz
MIDDLE	LTE 10 MHz	QPSK	1.249	Hz
MIDDLE	LTE 10 MHz	16QAM	18	mHz
MIDDLE	LTE 10 MHz	64QAM	1.144	Hz
MIDDLE	LTE 10 MHz	256QAM	-964	mHz
TOP	LTE 10 MHz	QPSK	1.369	Hz
TOP	LTE 10 MHz	16QAM	1.407	Hz
TOP	LTE 10 MHz	64QAM	1.398	Hz
TOP	LTE 10 MHz	256QAM	1.418	Hz
BOTTOM	LTE 15 MHz	QPSK	-1.313	Hz
BOTTOM	LTE 15 MHz	16QAM	1.276	Hz
BOTTOM	LTE 15 MHz	64QAM	-1.341	Hz
BOTTOM	LTE 15 MHz	256QAM	-211	mHz
MIDDLE	LTE 15 MHz	QPSK	230	mHz
MIDDLE	LTE 15 MHz	16QAM	544	mHz
MIDDLE	LTE 15 MHz	64QAM	638	mHz
MIDDLE	LTE 15 MHz	256QAM	-1.256	Hz
TOP	LTE 15 MHz	QPSK	-154	mHz
TOP	LTE 15 MHz	16QAM	304	mHz
TOP	LTE 15 MHz	64QAM	914	mHz
TOP	LTE 15 MHz	256QAM	-194	mHz
BOTTOM	LTE 20 MHz	QPSK	-456	mHz
BOTTOM	LTE 20 MHz	16QAM	-1.22	Hz
BOTTOM	LTE 20 MHz	64QAM	1.221	Hz
BOTTOM	LTE 20 MHz	256QAM	-925	mHz
MIDDLE	LTE 20 MHz	QPSK	475	mHz
MIDDLE	LTE 20 MHz	16QAM	573	mHz
MIDDLE	LTE 20 MHz	64QAM	-365	mHz
MIDDLE	LTE 20 MHz	256QAM	681	mHz
TOP	LTE 20 MHz	QPSK	528	mHz
TOP	LTE 20 MHz	16QAM	-1.336	Hz
TOP	LTE 20 MHz	64QAM	-1.423	Hz
TOP	LTE 20 MHz	256QAM	1.077	Hz

Temperature = 0°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-88	mHz
BOTTOM	LTE 5 MHz	16QAM	752	mHz
BOTTOM	LTE 5 MHz	64QAM	-15	mHz
BOTTOM	LTE 5 MHz	256QAM	-206	mHz
MIDDLE	LTE 5 MHz	QPSK	-180.63	mHz
MIDDLE	LTE 5 MHz	16QAM	-938.37	mHz
MIDDLE	LTE 5 MHz	64QAM	1.0888	Hz
MIDDLE	LTE 5 MHz	256QAM	-990.08	mHz
TOP	LTE 5 MHz	QPSK	552	mHz
TOP	LTE 5 MHz	16QAM	561	mHz
TOP	LTE 5 MHz	64QAM	-469	mHz
TOP	LTE 5 MHz	256QAM	-575	mHz
BOTTOM	LTE 10 MHz	QPSK	-1.354	Hz
BOTTOM	LTE 10 MHz	16QAM	248	mHz
BOTTOM	LTE 10 MHz	64QAM	-644	mHz
BOTTOM	LTE 10 MHz	256QAM	-935	mHz
MIDDLE	LTE 10 MHz	QPSK	-451.98	mHz
MIDDLE	LTE 10 MHz	16QAM	1.312	Hz
MIDDLE	LTE 10 MHz	64QAM	-1.7471	Hz
MIDDLE	LTE 10 MHz	256QAM	857.8	mHz
TOP	LTE 10 MHz	QPSK	-808	mHz
TOP	LTE 10 MHz	16QAM	-649	mHz
TOP	LTE 10 MHz	64QAM	205	mHz
TOP	LTE 10 MHz	256QAM	1.499	Hz
BOTTOM	LTE 15 MHz	QPSK	1.195	Hz
BOTTOM	LTE 15 MHz	16QAM	805	mHz
BOTTOM	LTE 15 MHz	64QAM	693	mHz
BOTTOM	LTE 15 MHz	256QAM	79	mHz
MIDDLE	LTE 15 MHz	QPSK	742.65	mHz
MIDDLE	LTE 15 MHz	16QAM	-1.5687	Hz
MIDDLE	LTE 15 MHz	64QAM	-3.3128	Hz
MIDDLE	LTE 15 MHz	256QAM	-1.2014	Hz
TOP	LTE 15 MHz	QPSK	225	mHz
TOP	LTE 15 MHz	16QAM	637	mHz
TOP	LTE 15 MHz	64QAM	767	mHz
TOP	LTE 15 MHz	256QAM	405	mHz
BOTTOM	LTE 20 MHz	QPSK	-786	mHz
BOTTOM	LTE 20 MHz	16QAM	1.138	Hz
BOTTOM	LTE 20 MHz	64QAM	-201	mHz
BOTTOM	LTE 20 MHz	256QAM	-656	mHz
MIDDLE	LTE 20 MHz	QPSK	-1.2968	Hz
MIDDLE	LTE 20 MHz	16QAM	-947.37	mHz
MIDDLE	LTE 20 MHz	64QAM	1.3218	Hz
MIDDLE	LTE 20 MHz	256QAM	-664.16	mHz
TOP	LTE 20 MHz	QPSK	1.334	Hz
TOP	LTE 20 MHz	16QAM	-888	mHz
TOP	LTE 20 MHz	64QAM	-1.459	Hz
TOP	LTE 20 MHz	256QAM	766	mHz

Temperature = 10°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-1.008	Hz
BOTTOM	LTE 5 MHz	16QAM	461	mHz
BOTTOM	LTE 5 MHz	64QAM	1.454	Hz
BOTTOM	LTE 5 MHz	256QAM	12	mHz
MIDDLE	LTE 5 MHz	QPSK	762	mHz
MIDDLE	LTE 5 MHz	16QAM	-981	mHz
MIDDLE	LTE 5 MHz	64QAM	-1.371	Hz
MIDDLE	LTE 5 MHz	256QAM	744	mHz
TOP	LTE 5 MHz	QPSK	-253	mHz
TOP	LTE 5 MHz	16QAM	1.246	Hz
TOP	LTE 5 MHz	64QAM	-156	mHz
TOP	LTE 5 MHz	256QAM	-811	mHz
BOTTOM	LTE 10 MHz	QPSK	627	mHz
BOTTOM	LTE 10 MHz	16QAM	436	mHz
BOTTOM	LTE 10 MHz	64QAM	-1.415	Hz
BOTTOM	LTE 10 MHz	256QAM	-1.048	Hz
MIDDLE	LTE 10 MHz	QPSK	441	mHz
MIDDLE	LTE 10 MHz	16QAM	813	mHz
MIDDLE	LTE 10 MHz	64QAM	-227	mHz
MIDDLE	LTE 10 MHz	256QAM	-592	mHz
TOP	LTE 10 MHz	QPSK	-611	mHz
TOP	LTE 10 MHz	16QAM	1.45	Hz
TOP	LTE 10 MHz	64QAM	-59	mHz
TOP	LTE 10 MHz	256QAM	-47	mHz
BOTTOM	LTE 15 MHz	QPSK	-862	mHz
BOTTOM	LTE 15 MHz	16QAM	-1.046	Hz
BOTTOM	LTE 15 MHz	64QAM	910	mHz
BOTTOM	LTE 15 MHz	256QAM	-619	mHz
MIDDLE	LTE 15 MHz	QPSK	597	mHz
MIDDLE	LTE 15 MHz	16QAM	-809	mHz
MIDDLE	LTE 15 MHz	64QAM	1.09	Hz
MIDDLE	LTE 15 MHz	256QAM	-1.376	Hz
TOP	LTE 15 MHz	QPSK	-214	mHz
TOP	LTE 15 MHz	16QAM	1.409	Hz
TOP	LTE 15 MHz	64QAM	1.108	Hz
TOP	LTE 15 MHz	256QAM	728	mHz
BOTTOM	LTE 20 MHz	QPSK	366	mHz
BOTTOM	LTE 20 MHz	16QAM	219	mHz
BOTTOM	LTE 20 MHz	64QAM	795	mHz
BOTTOM	LTE 20 MHz	256QAM	1.441	Hz
MIDDLE	LTE 20 MHz	QPSK	-223	mHz
MIDDLE	LTE 20 MHz	16QAM	-43	mHz
MIDDLE	LTE 20 MHz	64QAM	-538	mHz
MIDDLE	LTE 20 MHz	256QAM	-556	mHz
TOP	LTE 20 MHz	QPSK	148	mHz
TOP	LTE 20 MHz	16QAM	-908	mHz
TOP	LTE 20 MHz	64QAM	1.341	Hz
TOP	LTE 20 MHz	256QAM	247	mHz

Temperature = 20°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	535.400	mHz
BOTTOM	LTE 5 MHz	16QAM	1.628	Hz
BOTTOM	LTE 5 MHz	64QAM	-1.495	Hz
BOTTOM	LTE 5 MHz	256QAM	707.140	mHz
MIDDLE	LTE 5 MHz	QPSK	210.890	mHz
MIDDLE	LTE 5 MHz	16QAM	562.980	mHz
MIDDLE	LTE 5 MHz	64QAM	-223.370	mHz
MIDDLE	LTE 5 MHz	256QAM	-16.848	mHz
TOP	LTE 5 MHz	QPSK	-720.600	mHz
TOP	LTE 5 MHz	16QAM	336.260	mHz
TOP	LTE 5 MHz	64QAM	-574.200	mHz
TOP	LTE 5 MHz	256QAM	-883.820	mHz
BOTTOM	LTE 10 MHz	QPSK	622.310	mHz
BOTTOM	LTE 10 MHz	16QAM	-147.990	mHz
BOTTOM	LTE 10 MHz	64QAM	-9.963	mHz
BOTTOM	LTE 10 MHz	256QAM	187.080	mHz
MIDDLE	LTE 10 MHz	QPSK	-585.990	mHz
MIDDLE	LTE 10 MHz	16QAM	1.128	Hz
MIDDLE	LTE 10 MHz	64QAM	-350.070	mHz
MIDDLE	LTE 10 MHz	256QAM	-293.750	mHz
TOP	LTE 10 MHz	QPSK	-354.870	mHz
TOP	LTE 10 MHz	16QAM	1.729	Hz
TOP	LTE 10 MHz	64QAM	-425.110	mHz
TOP	LTE 10 MHz	256QAM	712.950	mHz
BOTTOM	LTE 15 MHz	QPSK	-30.352	mHz
BOTTOM	LTE 15 MHz	16QAM	-734.780	mHz
BOTTOM	LTE 15 MHz	64QAM	-574.610	mHz
BOTTOM	LTE 15 MHz	256QAM	360.540	mHz
MIDDLE	LTE 15 MHz	QPSK	1.318	Hz
MIDDLE	LTE 15 MHz	16QAM	-1.562	Hz
MIDDLE	LTE 15 MHz	64QAM	-1.754	Hz
MIDDLE	LTE 15 MHz	256QAM	176.550	mHz
TOP	LTE 15 MHz	QPSK	249.490	mHz
TOP	LTE 15 MHz	16QAM	-137.870	mHz
TOP	LTE 15 MHz	64QAM	-528.240	mHz
TOP	LTE 15 MHz	256QAM	-635.010	mHz
BOTTOM	LTE 20 MHz	QPSK	-625.090	mHz
BOTTOM	LTE 20 MHz	16QAM	-961.900	mHz
BOTTOM	LTE 20 MHz	64QAM	114.030	mHz
BOTTOM	LTE 20 MHz	256QAM	-173.020	mHz
MIDDLE	LTE 20 MHz	QPSK	-676.300	mHz
MIDDLE	LTE 20 MHz	16QAM	-136.100	mHz
MIDDLE	LTE 20 MHz	64QAM	193.520	mHz
MIDDLE	LTE 20 MHz	256QAM	441.470	mHz
TOP	LTE 20 MHz	QPSK	314.770	mHz
TOP	LTE 20 MHz	16QAM	-409.180	mHz
TOP	LTE 20 MHz	64QAM	183.610	mHz
TOP	LTE 20 MHz	256QAM	24.097	mHz

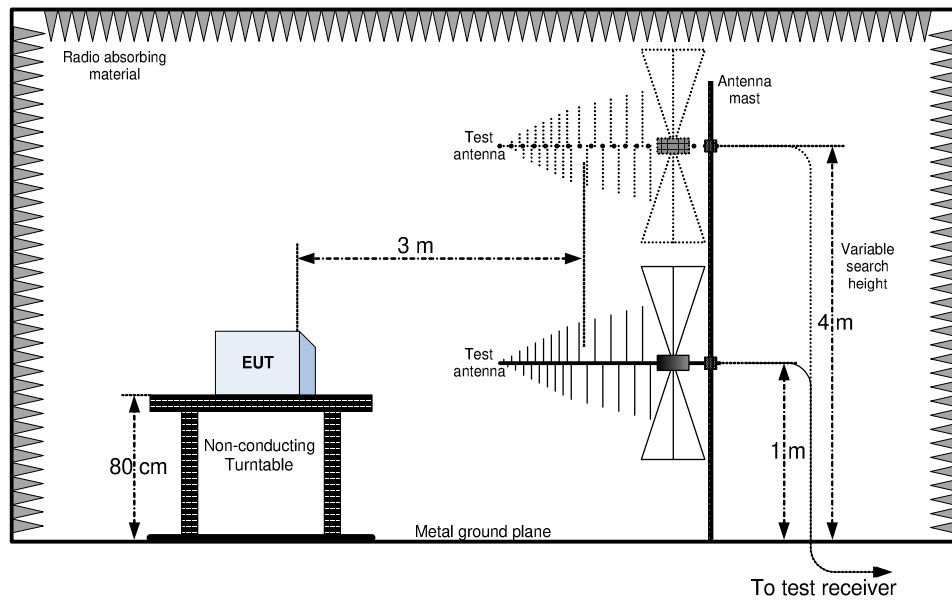
Temperature = 30°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-787	mHz
BOTTOM	LTE 5 MHz	16QAM	1.243	Hz
BOTTOM	LTE 5 MHz	64QAM	-1.242	Hz
BOTTOM	LTE 5 MHz	256QAM	808	mHz
MIDDLE	LTE 5 MHz	QPSK	1.378	Hz
MIDDLE	LTE 5 MHz	16QAM	-331	mHz
MIDDLE	LTE 5 MHz	64QAM	152	mHz
MIDDLE	LTE 5 MHz	256QAM	-152	mHz
TOP	LTE 5 MHz	QPSK	-23	mHz
TOP	LTE 5 MHz	16QAM	-784	mHz
TOP	LTE 5 MHz	64QAM	281	mHz
TOP	LTE 5 MHz	256QAM	51	mHz
BOTTOM	LTE 10 MHz	QPSK	1.291	Hz
BOTTOM	LTE 10 MHz	16QAM	1.332	Hz
BOTTOM	LTE 10 MHz	64QAM	-1.195	Hz
BOTTOM	LTE 10 MHz	256QAM	-441	mHz
MIDDLE	LTE 10 MHz	QPSK	-801	mHz
MIDDLE	LTE 10 MHz	16QAM	-396	mHz
MIDDLE	LTE 10 MHz	64QAM	-750	mHz
MIDDLE	LTE 10 MHz	256QAM	-274	mHz
TOP	LTE 10 MHz	QPSK	1.477	Hz
TOP	LTE 10 MHz	16QAM	-929	mHz
TOP	LTE 10 MHz	64QAM	1.158	Hz
TOP	LTE 10 MHz	256QAM	-1.039	Hz
BOTTOM	LTE 15 MHz	QPSK	206	mHz
BOTTOM	LTE 15 MHz	16QAM	-570	mHz
BOTTOM	LTE 15 MHz	64QAM	-58	mHz
BOTTOM	LTE 15 MHz	256QAM	136	mHz
MIDDLE	LTE 15 MHz	QPSK	211	mHz
MIDDLE	LTE 15 MHz	16QAM	655	mHz
MIDDLE	LTE 15 MHz	64QAM	-923	mHz
MIDDLE	LTE 15 MHz	256QAM	-268	mHz
TOP	LTE 15 MHz	QPSK	-448	mHz
TOP	LTE 15 MHz	16QAM	1.487	Hz
TOP	LTE 15 MHz	64QAM	-1.403	Hz
TOP	LTE 15 MHz	256QAM	1.016	Hz
BOTTOM	LTE 20 MHz	QPSK	76	mHz
BOTTOM	LTE 20 MHz	16QAM	-582	mHz
BOTTOM	LTE 20 MHz	64QAM	-1.064	Hz
BOTTOM	LTE 20 MHz	256QAM	1.222	Hz
MIDDLE	LTE 20 MHz	QPSK	-867	mHz
MIDDLE	LTE 20 MHz	16QAM	-836	mHz
MIDDLE	LTE 20 MHz	64QAM	741	mHz
MIDDLE	LTE 20 MHz	256QAM	642	mHz
TOP	LTE 20 MHz	QPSK	-1.184	Hz
TOP	LTE 20 MHz	16QAM	349	mHz
TOP	LTE 20 MHz	64QAM	492	mHz
TOP	LTE 20 MHz	256QAM	-587	mHz

Temperature = 40°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-848.77	mHz
BOTTOM	LTE 5 MHz	16QAM	20.98	mHz
BOTTOM	LTE 5 MHz	64QAM	-247.04	mHz
BOTTOM	LTE 5 MHz	256QAM	-614.97	mHz
MIDDLE	LTE 5 MHz	QPSK	-638.88	mHz
MIDDLE	LTE 5 MHz	16QAM	-765.80	mHz
MIDDLE	LTE 5 MHz	64QAM	846.64	mHz
MIDDLE	LTE 5 MHz	256QAM	-457.76	mHz
TOP	LTE 5 MHz	QPSK	-88.16	mHz
TOP	LTE 5 MHz	16QAM	-157.75	mHz
TOP	LTE 5 MHz	64QAM	236.87	mHz
TOP	LTE 5 MHz	256QAM	606.26	mHz
BOTTOM	LTE 10 MHz	QPSK	-812.95	mHz
BOTTOM	LTE 10 MHz	16QAM	0.08	Hz
BOTTOM	LTE 10 MHz	64QAM	20.63	mHz
BOTTOM	LTE 10 MHz	256QAM	338.28	mHz
MIDDLE	LTE 10 MHz	QPSK	493.05	mHz
MIDDLE	LTE 10 MHz	16QAM	-1.01	Hz
MIDDLE	LTE 10 MHz	64QAM	804.48	mHz
MIDDLE	LTE 10 MHz	256QAM	30.01	mHz
TOP	LTE 10 MHz	QPSK	462.61	mHz
TOP	LTE 10 MHz	16QAM	30.82	mHz
TOP	LTE 10 MHz	64QAM	-3.18	Hz
TOP	LTE 10 MHz	256QAM	-486.39	mHz
BOTTOM	LTE 15 MHz	QPSK	-50.91	mHz
BOTTOM	LTE 15 MHz	16QAM	-435.55	mHz
BOTTOM	LTE 15 MHz	64QAM	30.90	mHz
BOTTOM	LTE 15 MHz	256QAM	-431.06	mHz
MIDDLE	LTE 15 MHz	QPSK	452.16	mHz
MIDDLE	LTE 15 MHz	16QAM	363.98	mHz
MIDDLE	LTE 15 MHz	64QAM	-876.80	mHz
MIDDLE	LTE 15 MHz	256QAM	297.93	mHz
TOP	LTE 15 MHz	QPSK	-845.98	mHz
TOP	LTE 15 MHz	16QAM	381.85	mHz
TOP	LTE 15 MHz	64QAM	-233.76	mHz
TOP	LTE 15 MHz	256QAM	1.50	Hz
BOTTOM	LTE 20 MHz	QPSK	677.89	mHz
BOTTOM	LTE 20 MHz	16QAM	-438.94	mHz
BOTTOM	LTE 20 MHz	64QAM	843.05	mHz
BOTTOM	LTE 20 MHz	256QAM	615.62	mHz
MIDDLE	LTE 20 MHz	QPSK	225.59	mHz
MIDDLE	LTE 20 MHz	16QAM	-282.66	mHz
MIDDLE	LTE 20 MHz	64QAM	245.34	mHz
MIDDLE	LTE 20 MHz	256QAM	-134.50	mHz
TOP	LTE 20 MHz	QPSK	-398.41	mHz
TOP	LTE 20 MHz	16QAM	660.69	mHz
TOP	LTE 20 MHz	64QAM	644.44	mHz
TOP	LTE 20 MHz	256QAM	432.16	mHz

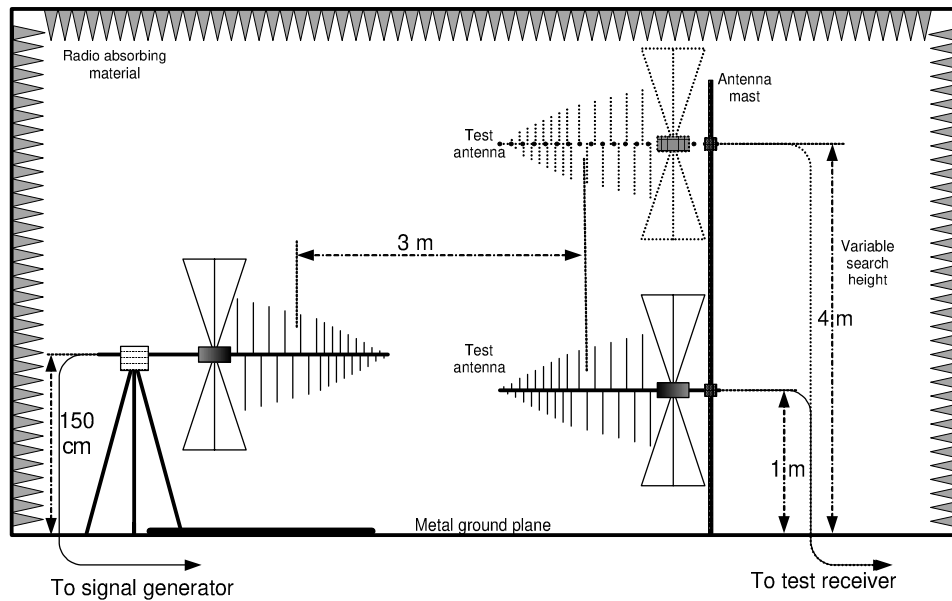
Temperature = 50°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	1.164	Hz
BOTTOM	LTE 5 MHz	16QAM	-169	mHz
BOTTOM	LTE 5 MHz	64QAM	-1.123	Hz
BOTTOM	LTE 5 MHz	256QAM	-72	mHz
MIDDLE	LTE 5 MHz	QPSK	1.481	Hz
MIDDLE	LTE 5 MHz	16QAM	385	mHz
MIDDLE	LTE 5 MHz	64QAM	-132	mHz
MIDDLE	LTE 5 MHz	256QAM	-1.2	Hz
TOP	LTE 5 MHz	QPSK	-449	mHz
TOP	LTE 5 MHz	16QAM	-1.044	Hz
TOP	LTE 5 MHz	64QAM	998	mHz
TOP	LTE 5 MHz	256QAM	1.357	Hz
BOTTOM	LTE 10 MHz	QPSK	-118	mHz
BOTTOM	LTE 10 MHz	16QAM	-1.117	Hz
BOTTOM	LTE 10 MHz	64QAM	579	mHz
BOTTOM	LTE 10 MHz	256QAM	1.431	Hz
MIDDLE	LTE 10 MHz	QPSK	-1.112	Hz
MIDDLE	LTE 10 MHz	16QAM	203	mHz
MIDDLE	LTE 10 MHz	64QAM	-156	mHz
MIDDLE	LTE 10 MHz	256QAM	-551	mHz
TOP	LTE 10 MHz	QPSK	369	mHz
TOP	LTE 10 MHz	16QAM	-1.232	Hz
TOP	LTE 10 MHz	64QAM	-527	mHz
TOP	LTE 10 MHz	256QAM	-456	mHz
BOTTOM	LTE 15 MHz	QPSK	487	mHz
BOTTOM	LTE 15 MHz	16QAM	656	mHz
BOTTOM	LTE 15 MHz	64QAM	650	mHz
BOTTOM	LTE 15 MHz	256QAM	657	mHz
MIDDLE	LTE 15 MHz	QPSK	-92	mHz
MIDDLE	LTE 15 MHz	16QAM	-1.385	Hz
MIDDLE	LTE 15 MHz	64QAM	354	mHz
MIDDLE	LTE 15 MHz	256QAM	449	mHz
TOP	LTE 15 MHz	QPSK	1.028	Hz
TOP	LTE 15 MHz	16QAM	-930	mHz
TOP	LTE 15 MHz	64QAM	-994	mHz
TOP	LTE 15 MHz	256QAM	-1.472	Hz
BOTTOM	LTE 20 MHz	QPSK	736	mHz
BOTTOM	LTE 20 MHz	16QAM	557	mHz
BOTTOM	LTE 20 MHz	64QAM	-1.359	Hz
BOTTOM	LTE 20 MHz	256QAM	1.161	Hz
MIDDLE	LTE 20 MHz	QPSK	-792	mHz
MIDDLE	LTE 20 MHz	16QAM	32	mHz
MIDDLE	LTE 20 MHz	64QAM	-1.498	Hz
MIDDLE	LTE 20 MHz	256QAM	-1.175	Hz
TOP	LTE 20 MHz	QPSK	-408	mHz
TOP	LTE 20 MHz	16QAM	1.441	Hz
TOP	LTE 20 MHz	64QAM	1.143	Hz
TOP	LTE 20 MHz	256QAM	238	mHz

Appendix B: Block diagrams of test set-ups

Radiated emissions set-up



Substitution method set-up



Appendix C: EUT Photos

Photo Set up



Photo EUT







END OF TEST REPORT