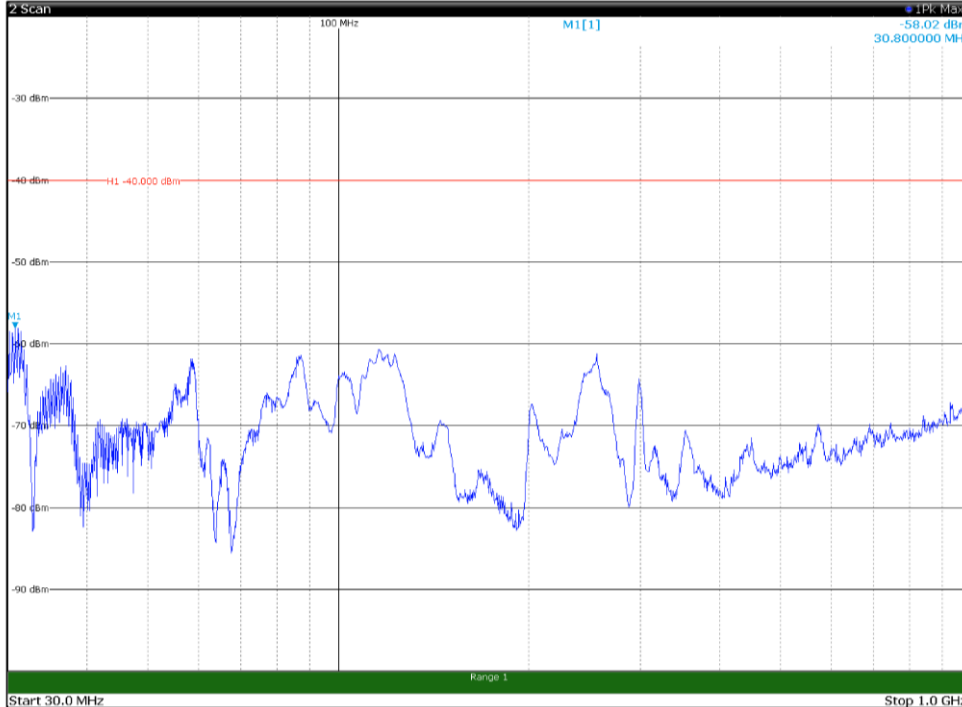
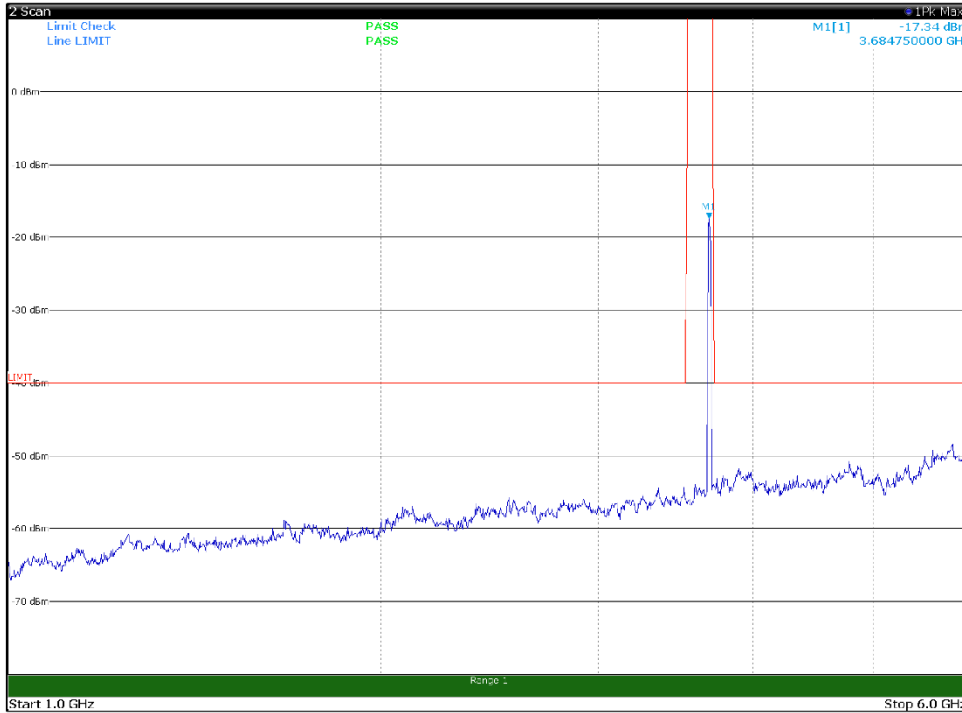


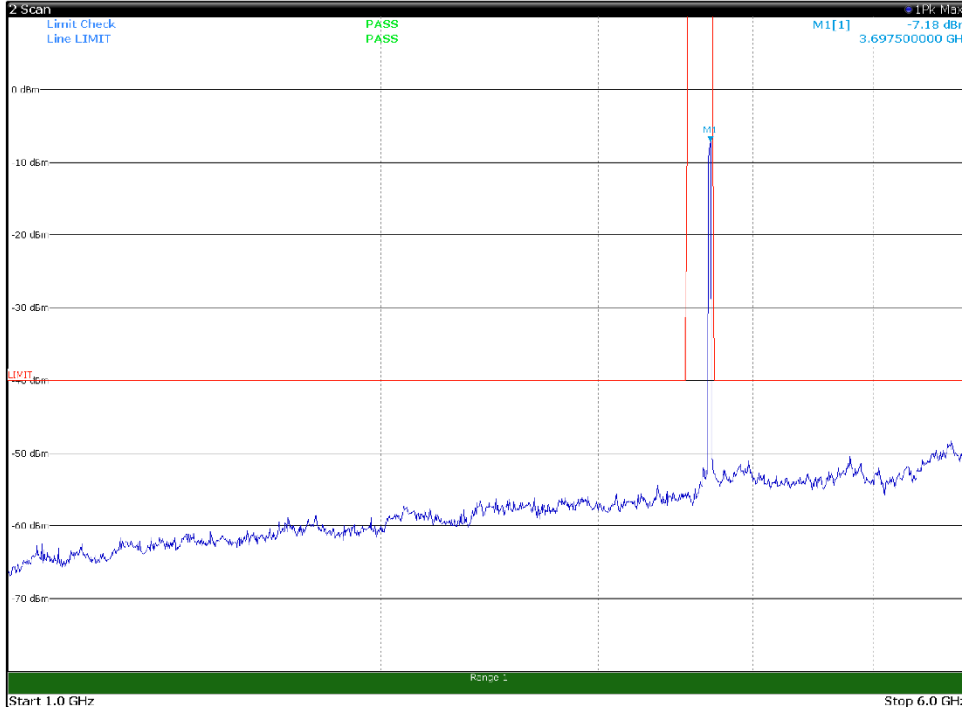
Channel: TOP, Modulation: 256QAM,  
 BW=20MHz, Range: 30MHz- 1GHz, Polarization: Horizontal



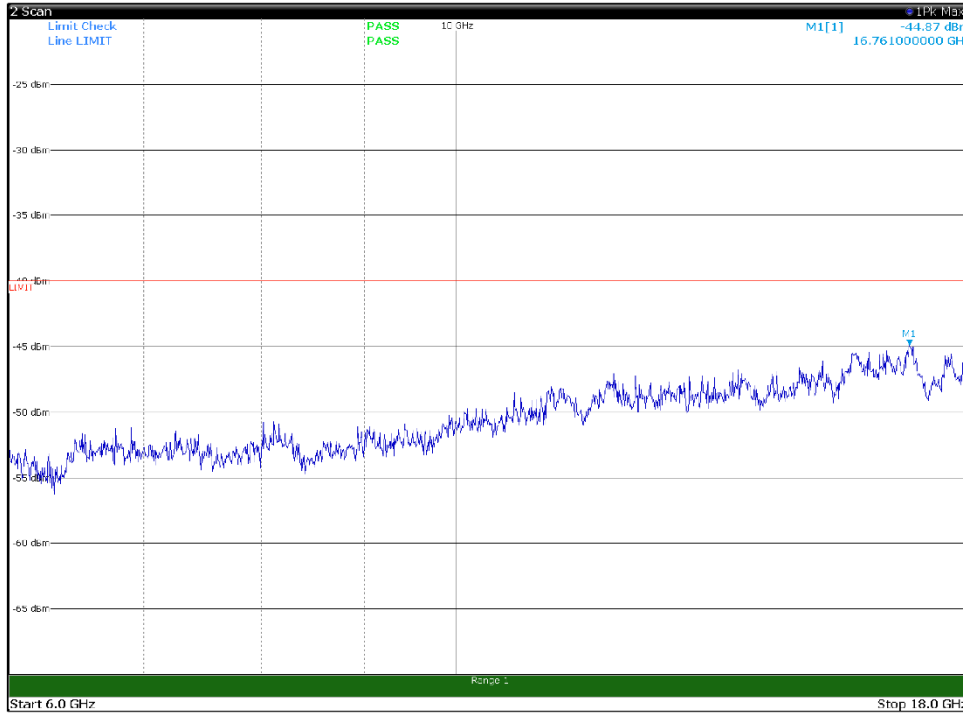
Channel: TOP, Modulation: 256QAM,  
 BW=20MHz, Range: 30MHz- 1GHz, Polarization: Vertical



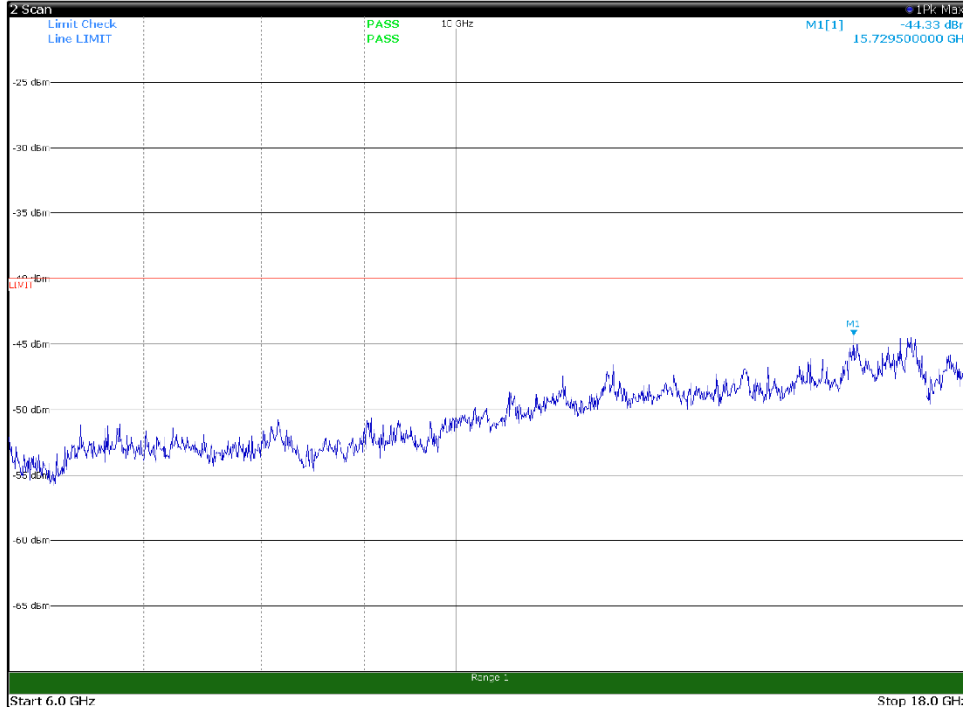
Channel: TOP, Modulation: 256QAM,  
 BW=20MHz, Range: 1GHz -6GHz, Polarization: Horizontal



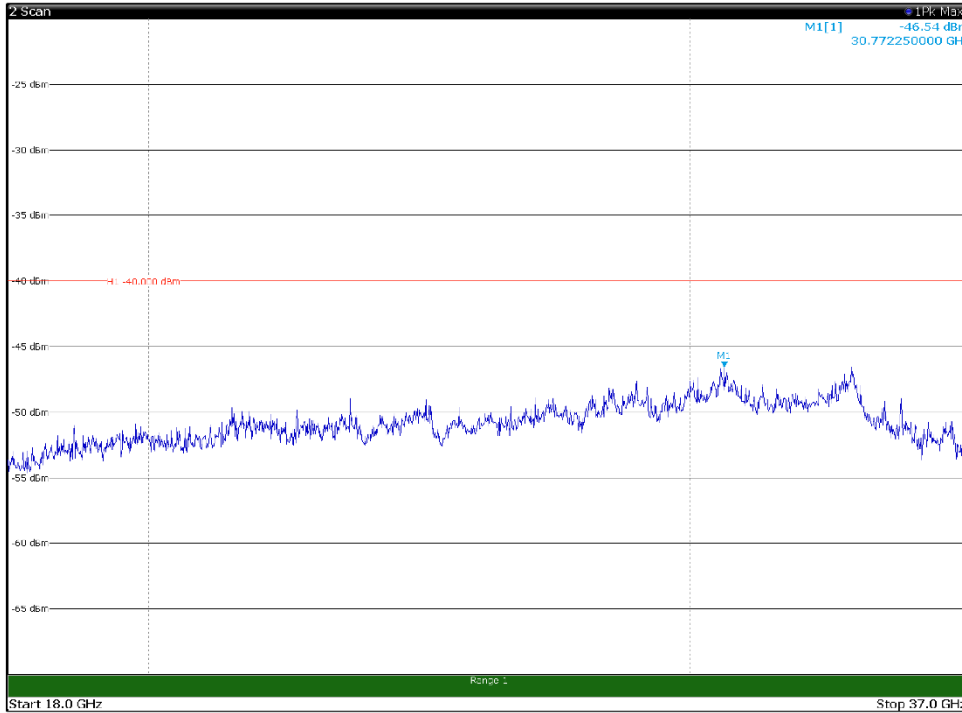
Channel: TOP, Modulation: 256QAM,  
 BW=20MHz, Range: 1GHz -6GHz, Polarization: Vertical



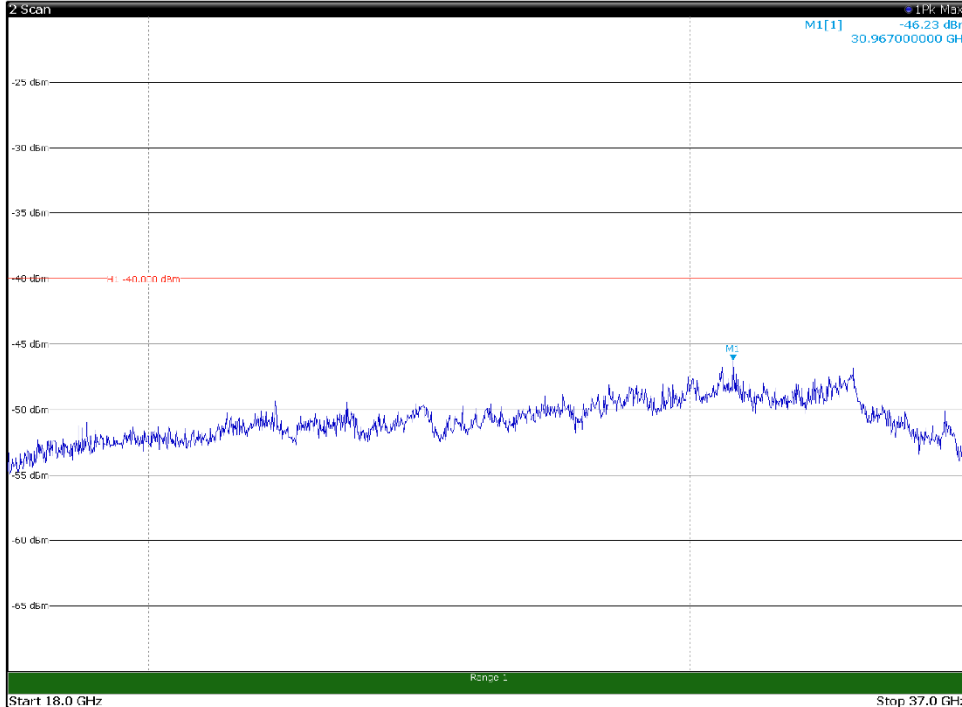
Channel: TOP, Modulation: 256QAM,  
BW=20MHz, Range: 6GHz -18GHz, Polarization: Horizontal



Channel: TOP, Modulation: 256QAM,  
BW=20MHz, Range: 6GHz -18GHz, Polarization: Vertical



Channel: TOP, Modulation: 256QAM,  
BW=20MHz, Range: 18GHz - 37GHz, Polarization: Horizontal



Channel: TOP, Modulation: 256QAM,  
BW=20MHz, Range: 18GHz - 37GHz, Polarization: Vertical

## Clause 2.1055 Frequency stability

(a) The frequency stability shall be measured with variation of ambient temperature as follows:  
(1) From  $-30^{\circ}$  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  $10^{\circ}$  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: [04/03/2019 to 05/10/2019](#)

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	457.08	mHz
BOTTOM	LTE 5 MHz	16QAM	-317.23	mHz
BOTTOM	LTE 5 MHz	64QAM	-154.44	mHz
BOTTOM	LTE 5 MHz	256QAM	-378.66	mHz
MIDDLE	LTE 5 MHz	QPSK	150.60	mHz
MIDDLE	LTE 5 MHz	16QAM	1.54	Hz
MIDDLE	LTE 5 MHz	64QAM	-43.19	mHz
MIDDLE	LTE 5 MHz	256QAM	-229.87	mHz
TOP	LTE 5 MHz	QPSK	-80.68	mHz
TOP	LTE 5 MHz	16QAM	-253.02	mHz
TOP	LTE 5 MHz	64QAM	-256.63	mHz
TOP	LTE 5 MHz	256QAM	68.59	mHz
BOTTOM	LTE 10 MHz	QPSK	-361.50	mHz
BOTTOM	LTE 10 MHz	16QAM	-397.95	mHz
BOTTOM	LTE 10 MHz	64QAM	124.59	mHz
BOTTOM	LTE 10 MHz	256QAM	341.67	mHz
MIDDLE	LTE 10 MHz	QPSK	-272.20	mHz
MIDDLE	LTE 10 MHz	16QAM	-1.33	Hz
MIDDLE	LTE 10 MHz	64QAM	-305.92	mHz
MIDDLE	LTE 10 MHz	256QAM	-309.06	mHz
TOP	LTE 10 MHz	QPSK	428.39	mHz
TOP	LTE 10 MHz	16QAM	100.06	mHz
TOP	LTE 10 MHz	64QAM	51.29	mHz
TOP	LTE 10 MHz	256QAM	-345.15	mHz
BOTTOM	LTE 15 MHz	QPSK	49.43	mHz
BOTTOM	LTE 15 MHz	16QAM	431.97	mHz
BOTTOM	LTE 15 MHz	64QAM	424.63	mHz
BOTTOM	LTE 15 MHz	256QAM	39.54	mHz
MIDDLE	LTE 15 MHz	QPSK	168.02	mHz
MIDDLE	LTE 15 MHz	16QAM	163.59	mHz
MIDDLE	LTE 15 MHz	64QAM	-40.49	mHz
MIDDLE	LTE 15 MHz	256QAM	-118.75	mHz
TOP	LTE 15 MHz	QPSK	56.15	mHz
TOP	LTE 15 MHz	16QAM	-299.84	mHz
TOP	LTE 15 MHz	64QAM	214.86	mHz
TOP	LTE 15 MHz	256QAM	-381.20	mHz
BOTTOM	LTE 20 MHz	QPSK	437.62	mHz
BOTTOM	LTE 20 MHz	16QAM	-29.01	mHz
BOTTOM	LTE 20 MHz	64QAM	139.02	mHz
BOTTOM	LTE 20 MHz	256QAM	-91.70	mHz
MIDDLE	LTE 20 MHz	QPSK	2.12	Hz
MIDDLE	LTE 20 MHz	16QAM	-2.34	Hz
MIDDLE	LTE 20 MHz	64QAM	2.12	Hz
MIDDLE	LTE 20 MHz	256QAM	-345.05	mHz
TOP	LTE 20 MHz	QPSK	-298.73	mHz
TOP	LTE 20 MHz	16QAM	196.21	mHz
TOP	LTE 20 MHz	64QAM	245.83	mHz
TOP	LTE 20 MHz	256QAM	440.68	mHz

Temperature = -20°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	1.96	Hz
BOTTOM	LTE 5 MHz	16QAM	455.80	mHz
BOTTOM	LTE 5 MHz	64QAM	388.17	mHz
BOTTOM	LTE 5 MHz	256QAM	70.13	mHz
MIDDLE	LTE 5 MHz	QPSK	-33.04	mHz
MIDDLE	LTE 5 MHz	16QAM	-332.75	mHz
MIDDLE	LTE 5 MHz	64QAM	33.28	mHz
MIDDLE	LTE 5 MHz	256QAM	315.29	mHz
TOP	LTE 5 MHz	QPSK	-326.91	mHz
TOP	LTE 5 MHz	16QAM	-122.17	mHz
TOP	LTE 5 MHz	64QAM	218.40	mHz
TOP	LTE 5 MHz	256QAM	-0.90	Hz
BOTTOM	LTE 10 MHz	QPSK	148.58	mHz
BOTTOM	LTE 10 MHz	16QAM	-185.19	mHz
BOTTOM	LTE 10 MHz	64QAM	383.64	mHz
BOTTOM	LTE 10 MHz	256QAM	-178.50	mHz
MIDDLE	LTE 10 MHz	QPSK	227.05	mHz
MIDDLE	LTE 10 MHz	16QAM	-833.44	mHz
MIDDLE	LTE 10 MHz	64QAM	1.04	Hz
MIDDLE	LTE 10 MHz	256QAM	393.06	mHz
TOP	LTE 10 MHz	QPSK	-120.82	mHz
TOP	LTE 10 MHz	16QAM	-85.29	mHz
TOP	LTE 10 MHz	64QAM	216.51	mHz
TOP	LTE 10 MHz	256QAM	471.20	mHz
BOTTOM	LTE 15 MHz	QPSK	322.05	mHz
BOTTOM	LTE 15 MHz	16QAM	-116.61	mHz
BOTTOM	LTE 15 MHz	64QAM	239.27	mHz
BOTTOM	LTE 15 MHz	256QAM	-254.70	mHz
MIDDLE	LTE 15 MHz	QPSK	-503.19	mHz
MIDDLE	LTE 15 MHz	16QAM	1.87	Hz
MIDDLE	LTE 15 MHz	64QAM	-111.63	mHz
MIDDLE	LTE 15 MHz	256QAM	1.15	Hz
TOP	LTE 15 MHz	QPSK	482.37	mHz
TOP	LTE 15 MHz	16QAM	-274.14	mHz
TOP	LTE 15 MHz	64QAM	-154.22	mHz
TOP	LTE 15 MHz	256QAM	190.26	mHz
BOTTOM	LTE 20 MHz	QPSK	192.22	mHz
BOTTOM	LTE 20 MHz	16QAM	-345.60	mHz
BOTTOM	LTE 20 MHz	64QAM	21.65	mHz
BOTTOM	LTE 20 MHz	256QAM	410.43	mHz
MIDDLE	LTE 20 MHz	QPSK	983.95	mHz
MIDDLE	LTE 20 MHz	16QAM	-1.32	Hz
MIDDLE	LTE 20 MHz	64QAM	994.17	mHz
MIDDLE	LTE 20 MHz	256QAM	-77.25	mHz
TOP	LTE 20 MHz	QPSK	-1.41	Hz
TOP	LTE 20 MHz	16QAM	438.91	mHz
TOP	LTE 20 MHz	64QAM	406.90	mHz
TOP	LTE 20 MHz	256QAM	-30.38	mHz

Temperature = -10°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	1.37	Hz
BOTTOM	LTE 5 MHz	16QAM	322.84	mHz
BOTTOM	LTE 5 MHz	64QAM	-192.23	mHz
BOTTOM	LTE 5 MHz	256QAM	176.84	mHz
MIDDLE	LTE 5 MHz	QPSK	-61.89	mHz
MIDDLE	LTE 5 MHz	16QAM	-69.68	mHz
MIDDLE	LTE 5 MHz	64QAM	424.44	mHz
MIDDLE	LTE 5 MHz	256QAM	375.63	mHz
TOP	LTE 5 MHz	QPSK	-1.11	Hz
TOP	LTE 5 MHz	16QAM	297.57	mHz
TOP	LTE 5 MHz	64QAM	444.59	mHz
TOP	LTE 5 MHz	256QAM	83.89	mHz
BOTTOM	LTE 10 MHz	QPSK	88.57	mHz
BOTTOM	LTE 10 MHz	16QAM	-116.85	mHz
BOTTOM	LTE 10 MHz	64QAM	79.09	mHz
BOTTOM	LTE 10 MHz	256QAM	-389.53	mHz
MIDDLE	LTE 10 MHz	QPSK	-576.10	mHz
MIDDLE	LTE 10 MHz	16QAM	-53.01	mHz
MIDDLE	LTE 10 MHz	64QAM	-337.09	mHz
MIDDLE	LTE 10 MHz	256QAM	-315.54	mHz
TOP	LTE 10 MHz	QPSK	-307.04	mHz
TOP	LTE 10 MHz	16QAM	-214.85	mHz
TOP	LTE 10 MHz	64QAM	84.04	mHz
TOP	LTE 10 MHz	256QAM	-165.81	mHz
BOTTOM	LTE 15 MHz	QPSK	202.15	mHz
BOTTOM	LTE 15 MHz	16QAM	-1.19	Hz
BOTTOM	LTE 15 MHz	64QAM	-321.25	mHz
BOTTOM	LTE 15 MHz	256QAM	-251.71	mHz
MIDDLE	LTE 15 MHz	QPSK	-271.94	mHz
MIDDLE	LTE 15 MHz	16QAM	-1.08	Hz
MIDDLE	LTE 15 MHz	64QAM	-62.92	mHz
MIDDLE	LTE 15 MHz	256QAM	215.84	mHz
TOP	LTE 15 MHz	QPSK	168.69	mHz
TOP	LTE 15 MHz	16QAM	-51.95	mHz
TOP	LTE 15 MHz	64QAM	132.14	mHz
TOP	LTE 15 MHz	256QAM	-23.17	mHz
BOTTOM	LTE 20 MHz	QPSK	-330.72	mHz
BOTTOM	LTE 20 MHz	16QAM	248.21	mHz
BOTTOM	LTE 20 MHz	64QAM	-329.23	mHz
BOTTOM	LTE 20 MHz	256QAM	-103.20	mHz
MIDDLE	LTE 20 MHz	QPSK	-492.12	mHz
MIDDLE	LTE 20 MHz	16QAM	-963.03	mHz
MIDDLE	LTE 20 MHz	64QAM	857.52	mHz
MIDDLE	LTE 20 MHz	256QAM	337.77	mHz
TOP	LTE 20 MHz	QPSK	-163.94	mHz
TOP	LTE 20 MHz	16QAM	247.58	mHz
TOP	LTE 20 MHz	64QAM	88.53	mHz
TOP	LTE 20 MHz	256QAM	259.35	mHz



Temperature = 0°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-394.59	mHz
BOTTOM	LTE 5 MHz	16QAM	411.60	mHz
BOTTOM	LTE 5 MHz	64QAM	317.57	mHz
BOTTOM	LTE 5 MHz	256QAM	-121.03	mHz
MIDDLE	LTE 5 MHz	QPSK	251.12	mHz
MIDDLE	LTE 5 MHz	16QAM	162.37	mHz
MIDDLE	LTE 5 MHz	64QAM	-251.44	mHz
MIDDLE	LTE 5 MHz	256QAM	-254.65	mHz
TOP	LTE 5 MHz	QPSK	491.60	mHz
TOP	LTE 5 MHz	16QAM	-113.70	mHz
TOP	LTE 5 MHz	64QAM	-376.90	mHz
TOP	LTE 5 MHz	256QAM	-277.92	mHz
BOTTOM	LTE 10 MHz	QPSK	119.78	mHz
BOTTOM	LTE 10 MHz	16QAM	55.69	mHz
BOTTOM	LTE 10 MHz	64QAM	-111.01	mHz
BOTTOM	LTE 10 MHz	256QAM	-318.86	mHz
MIDDLE	LTE 10 MHz	QPSK	347.96	mHz
MIDDLE	LTE 10 MHz	16QAM	210.69	mHz
MIDDLE	LTE 10 MHz	64QAM	-0.68	Hz
MIDDLE	LTE 10 MHz	256QAM	338.49	mHz
TOP	LTE 10 MHz	QPSK	-325.43	mHz
TOP	LTE 10 MHz	16QAM	-93.70	mHz
TOP	LTE 10 MHz	64QAM	210.23	mHz
TOP	LTE 10 MHz	256QAM	496.29	mHz
BOTTOM	LTE 15 MHz	QPSK	480.15	mHz
BOTTOM	LTE 15 MHz	16QAM	70.08	mHz
BOTTOM	LTE 15 MHz	64QAM	259.12	mHz
BOTTOM	LTE 15 MHz	256QAM	-332.54	mHz
MIDDLE	LTE 15 MHz	QPSK	414.28	mHz
MIDDLE	LTE 15 MHz	16QAM	363.07	mHz
MIDDLE	LTE 15 MHz	64QAM	-241.98	mHz
MIDDLE	LTE 15 MHz	256QAM	34.99	mHz
TOP	LTE 15 MHz	QPSK	-294.10	mHz
TOP	LTE 15 MHz	16QAM	85.36	mHz
TOP	LTE 15 MHz	64QAM	203.21	mHz
TOP	LTE 15 MHz	256QAM	306.20	mHz
BOTTOM	LTE 20 MHz	QPSK	-390.34	mHz
BOTTOM	LTE 20 MHz	16QAM	116.84	mHz
BOTTOM	LTE 20 MHz	64QAM	-313.27	mHz
BOTTOM	LTE 20 MHz	256QAM	300.39	mHz
MIDDLE	LTE 20 MHz	QPSK	1.35	Hz
MIDDLE	LTE 20 MHz	16QAM	897.65	mHz
MIDDLE	LTE 20 MHz	64QAM	2.92	Hz
MIDDLE	LTE 20 MHz	256QAM	359.81	mHz
TOP	LTE 20 MHz	QPSK	-237.67	mHz
TOP	LTE 20 MHz	16QAM	152.87	mHz
TOP	LTE 20 MHz	64QAM	302.91	mHz
TOP	LTE 20 MHz	256QAM	-396.39	mHz

Temperature = 10°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-335.04	mHz
BOTTOM	LTE 5 MHz	16QAM	163.16	mHz
BOTTOM	LTE 5 MHz	64QAM	406.45	mHz
BOTTOM	LTE 5 MHz	256QAM	458.08	mHz
MIDDLE	LTE 5 MHz	QPSK	-335.35	mHz
MIDDLE	LTE 5 MHz	16QAM	282.32	mHz
MIDDLE	LTE 5 MHz	64QAM	1.19	Hz
MIDDLE	LTE 5 MHz	256QAM	-426.94	mHz
TOP	LTE 5 MHz	QPSK	305.46	mHz
TOP	LTE 5 MHz	16QAM	338.06	mHz
TOP	LTE 5 MHz	64QAM	-139.49	mHz
TOP	LTE 5 MHz	256QAM	206.59	mHz
BOTTOM	LTE 10 MHz	QPSK	376.99	mHz
BOTTOM	LTE 10 MHz	16QAM	-62.72	mHz
BOTTOM	LTE 10 MHz	64QAM	-260.72	mHz
BOTTOM	LTE 10 MHz	256QAM	-335.46	mHz
MIDDLE	LTE 10 MHz	QPSK	-555.03	mHz
MIDDLE	LTE 10 MHz	16QAM	588.40	mHz
MIDDLE	LTE 10 MHz	64QAM	219.39	mHz
MIDDLE	LTE 10 MHz	256QAM	-579.14	mHz
TOP	LTE 10 MHz	QPSK	-333.09	mHz
TOP	LTE 10 MHz	16QAM	1.13	Hz
TOP	LTE 10 MHz	64QAM	315.67	mHz
TOP	LTE 10 MHz	256QAM	34.70	mHz
BOTTOM	LTE 15 MHz	QPSK	324.12	mHz
BOTTOM	LTE 15 MHz	16QAM	89.33	mHz
BOTTOM	LTE 15 MHz	64QAM	56.87	mHz
BOTTOM	LTE 15 MHz	256QAM	80.08	mHz
MIDDLE	LTE 15 MHz	QPSK	964.44	mHz
MIDDLE	LTE 15 MHz	16QAM	1.81	Hz
MIDDLE	LTE 15 MHz	64QAM	1.15	Hz
MIDDLE	LTE 15 MHz	256QAM	-152.61	mHz
TOP	LTE 15 MHz	QPSK	372.50	mHz
TOP	LTE 15 MHz	16QAM	-185.48	mHz
TOP	LTE 15 MHz	64QAM	495.97	mHz
TOP	LTE 15 MHz	256QAM	494.89	mHz
BOTTOM	LTE 20 MHz	QPSK	371.95	mHz
BOTTOM	LTE 20 MHz	16QAM	-318.36	mHz
BOTTOM	LTE 20 MHz	64QAM	1.29	Hz
BOTTOM	LTE 20 MHz	256QAM	-348.58	mHz
MIDDLE	LTE 20 MHz	QPSK	45.66	mHz
MIDDLE	LTE 20 MHz	16QAM	163.44	mHz
MIDDLE	LTE 20 MHz	64QAM	-224.67	mHz
MIDDLE	LTE 20 MHz	256QAM	-263.30	mHz
TOP	LTE 20 MHz	QPSK	-359.54	mHz
TOP	LTE 20 MHz	16QAM	-24.62	mHz
TOP	LTE 20 MHz	64QAM	-1.89	Hz
TOP	LTE 20 MHz	256QAM	303.16	mHz

Temperature = 20°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-2.59	Hz
BOTTOM	LTE 5 MHz	16QAM	-538.4	mHz
BOTTOM	LTE 5 MHz	64QAM	64.59	mHz
BOTTOM	LTE 5 MHz	256QAM	-174	mHz
MIDDLE	LTE 5 MHz	QPSK	270.4	mHz
MIDDLE	LTE 5 MHz	16QAM	-2.452	Hz
MIDDLE	LTE 5 MHz	64QAM	-770.4	mHz
MIDDLE	LTE 5 MHz	256QAM	697.13	mHz
TOP	LTE 5 MHz	QPSK	-1.773	Hz
TOP	LTE 5 MHz	16QAM	409.35	mHz
TOP	LTE 5 MHz	64QAM	-1.025	Hz
TOP	LTE 5 MHz	256QAM	240.25	mHz
BOTTOM	LTE 10 MHz	QPSK	-103.5	mHz
BOTTOM	LTE 10 MHz	16QAM	-334.2	mHz
BOTTOM	LTE 10 MHz	64QAM	138.62	mHz
BOTTOM	LTE 10 MHz	256QAM	480.38	mHz
MIDDLE	LTE 10 MHz	QPSK	1.2097	Hz
MIDDLE	LTE 10 MHz	16QAM	-726.9	mHz
MIDDLE	LTE 10 MHz	64QAM	83.439	mHz
MIDDLE	LTE 10 MHz	256QAM	-557.3	mHz
TOP	LTE 10 MHz	QPSK	513.11	mHz
TOP	LTE 10 MHz	16QAM	-466.3	mHz
TOP	LTE 10 MHz	64QAM	914.02	mHz
TOP	LTE 10 MHz	256QAM	-1.151	Hz
BOTTOM	LTE 15 MHz	QPSK	2.2025	Hz
BOTTOM	LTE 15 MHz	16QAM	1.1809	Hz
BOTTOM	LTE 15 MHz	64QAM	-2.807	Hz
BOTTOM	LTE 15 MHz	256QAM	-349.1	mHz
MIDDLE	LTE 15 MHz	QPSK	2.1732	Hz
MIDDLE	LTE 15 MHz	16QAM	2.6139	Hz
MIDDLE	LTE 15 MHz	64QAM	1.9423	Hz
MIDDLE	LTE 15 MHz	256QAM	698.06	mHz
TOP	LTE 15 MHz	QPSK	-1.317	Hz
TOP	LTE 15 MHz	16QAM	-2.57	Hz
TOP	LTE 15 MHz	64QAM	-1.639	Hz
TOP	LTE 15 MHz	256QAM	-1.124	Hz
BOTTOM	LTE 20 MHz	QPSK	-11.08	mHz
BOTTOM	LTE 20 MHz	16QAM	4.0031	Hz
BOTTOM	LTE 20 MHz	64QAM	-57.57	mHz
BOTTOM	LTE 20 MHz	256QAM	-150.2	mHz
MIDDLE	LTE 20 MHz	QPSK	723.56	mHz
MIDDLE	LTE 20 MHz	16QAM	-3.433	Hz
MIDDLE	LTE 20 MHz	64QAM	-321.9	mHz
MIDDLE	LTE 20 MHz	256QAM	-622.1	mHz
TOP	LTE 20 MHz	QPSK	234.23	mHz
TOP	LTE 20 MHz	16QAM	3.3437	Hz
TOP	LTE 20 MHz	64QAM	969.07	mHz
TOP	LTE 20 MHz	256QAM	98.74	mHz

Temperature = 30°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-365.06	mHz
BOTTOM	LTE 5 MHz	16QAM	494.77	mHz
BOTTOM	LTE 5 MHz	64QAM	477.20	mHz
BOTTOM	LTE 5 MHz	256QAM	478.90	mHz
MIDDLE	LTE 5 MHz	QPSK	228.20	mHz
MIDDLE	LTE 5 MHz	16QAM	-22.96	mHz
MIDDLE	LTE 5 MHz	64QAM	-1.75	Hz
MIDDLE	LTE 5 MHz	256QAM	-208.49	mHz
TOP	LTE 5 MHz	QPSK	-130.19	mHz
TOP	LTE 5 MHz	16QAM	-131.01	mHz
TOP	LTE 5 MHz	64QAM	171.81	mHz
TOP	LTE 5 MHz	256QAM	-88.57	mHz
BOTTOM	LTE 10 MHz	QPSK	-329.41	mHz
BOTTOM	LTE 10 MHz	16QAM	374.21	mHz
BOTTOM	LTE 10 MHz	64QAM	56.18	mHz
BOTTOM	LTE 10 MHz	256QAM	-0.90	Hz
MIDDLE	LTE 10 MHz	QPSK	-361.49	mHz
MIDDLE	LTE 10 MHz	16QAM	-72.88	mHz
MIDDLE	LTE 10 MHz	64QAM	209.57	mHz
MIDDLE	LTE 10 MHz	256QAM	-21.37	mHz
TOP	LTE 10 MHz	QPSK	-122.40	mHz
TOP	LTE 10 MHz	16QAM	121.01	mHz
TOP	LTE 10 MHz	64QAM	369.20	mHz
TOP	LTE 10 MHz	256QAM	259.26	mHz
BOTTOM	LTE 15 MHz	QPSK	-115.74	mHz
BOTTOM	LTE 15 MHz	16QAM	316.66	mHz
BOTTOM	LTE 15 MHz	64QAM	-170.25	mHz
BOTTOM	LTE 15 MHz	256QAM	342.68	mHz
MIDDLE	LTE 15 MHz	QPSK	-265.04	mHz
MIDDLE	LTE 15 MHz	16QAM	-237.52	mHz
MIDDLE	LTE 15 MHz	64QAM	-111.31	mHz
MIDDLE	LTE 15 MHz	256QAM	400.32	mHz
TOP	LTE 15 MHz	QPSK	131.21	mHz
TOP	LTE 15 MHz	16QAM	45.02	mHz
TOP	LTE 15 MHz	64QAM	-305.02	mHz
TOP	LTE 15 MHz	256QAM	106.99	mHz
BOTTOM	LTE 20 MHz	QPSK	-1.18	Hz
BOTTOM	LTE 20 MHz	16QAM	481.02	mHz
BOTTOM	LTE 20 MHz	64QAM	-306.15	mHz
BOTTOM	LTE 20 MHz	256QAM	-117.68	mHz
MIDDLE	LTE 20 MHz	QPSK	447.30	mHz
MIDDLE	LTE 20 MHz	16QAM	-229.53	mHz
MIDDLE	LTE 20 MHz	64QAM	447.03	mHz
MIDDLE	LTE 20 MHz	256QAM	0.82	Hz
TOP	LTE 20 MHz	QPSK	-52.23	mHz
TOP	LTE 20 MHz	16QAM	127.03	mHz
TOP	LTE 20 MHz	64QAM	-296.44	mHz
TOP	LTE 20 MHz	256QAM	385.74	mHz

Temperature = 40°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	372.02	mHz
BOTTOM	LTE 5 MHz	16QAM	-119.51	mHz
BOTTOM	LTE 5 MHz	64QAM	63.64	mHz
BOTTOM	LTE 5 MHz	256QAM	225.28	mHz
MIDDLE	LTE 5 MHz	QPSK	611.52	mHz
MIDDLE	LTE 5 MHz	16QAM	1.97	Hz
MIDDLE	LTE 5 MHz	64QAM	2.32	Hz
MIDDLE	LTE 5 MHz	256QAM	455.05	mHz
TOP	LTE 5 MHz	QPSK	248.37	mHz
TOP	LTE 5 MHz	16QAM	293.88	mHz
TOP	LTE 5 MHz	64QAM	1.23	Hz
TOP	LTE 5 MHz	256QAM	489.88	mHz
BOTTOM	LTE 10 MHz	QPSK	446.42	mHz
BOTTOM	LTE 10 MHz	16QAM	349.38	mHz
BOTTOM	LTE 10 MHz	64QAM	32.46	mHz
BOTTOM	LTE 10 MHz	256QAM	330.73	mHz
MIDDLE	LTE 10 MHz	QPSK	-36.08	mHz
MIDDLE	LTE 10 MHz	16QAM	-26.98	mHz
MIDDLE	LTE 10 MHz	64QAM	1.52	Hz
MIDDLE	LTE 10 MHz	256QAM	-52.68	mHz
TOP	LTE 10 MHz	QPSK	143.34	mHz
TOP	LTE 10 MHz	16QAM	-1.48	Hz
TOP	LTE 10 MHz	64QAM	-138.30	mHz
TOP	LTE 10 MHz	256QAM	-252.01	mHz
BOTTOM	LTE 15 MHz	QPSK	85.61	mHz
BOTTOM	LTE 15 MHz	16QAM	246.43	mHz
BOTTOM	LTE 15 MHz	64QAM	335.13	mHz
BOTTOM	LTE 15 MHz	256QAM	-352.31	mHz
MIDDLE	LTE 15 MHz	QPSK	-393.73	mHz
MIDDLE	LTE 15 MHz	16QAM	-31.80	mHz
MIDDLE	LTE 15 MHz	64QAM	-27.88	mHz
MIDDLE	LTE 15 MHz	256QAM	174.23	mHz
TOP	LTE 15 MHz	QPSK	1.16	Hz
TOP	LTE 15 MHz	16QAM	125.69	mHz
TOP	LTE 15 MHz	64QAM	331.15	mHz
TOP	LTE 15 MHz	256QAM	-353.56	mHz
BOTTOM	LTE 20 MHz	QPSK	309.71	mHz
BOTTOM	LTE 20 MHz	16QAM	134.45	mHz
BOTTOM	LTE 20 MHz	64QAM	-183.89	mHz
BOTTOM	LTE 20 MHz	256QAM	69.81	mHz
MIDDLE	LTE 20 MHz	QPSK	-26.86	mHz
MIDDLE	LTE 20 MHz	16QAM	-28.27	mHz
MIDDLE	LTE 20 MHz	64QAM	-28.81	mHz
MIDDLE	LTE 20 MHz	256QAM	348.05	mHz
TOP	LTE 20 MHz	QPSK	-46.43	mHz
TOP	LTE 20 MHz	16QAM	1.79	Hz
TOP	LTE 20 MHz	64QAM	344.44	mHz
TOP	LTE 20 MHz	256QAM	121.46	mHz

Temperature = 50°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-25.80	mHz
BOTTOM	LTE 5 MHz	16QAM	25.73	mHz
BOTTOM	LTE 5 MHz	64QAM	233.30	mHz
BOTTOM	LTE 5 MHz	256QAM	-397.32	mHz
MIDDLE	LTE 5 MHz	QPSK	-496.45	mHz
MIDDLE	LTE 5 MHz	16QAM	-36.43	mHz
MIDDLE	LTE 5 MHz	64QAM	-35.92	mHz
MIDDLE	LTE 5 MHz	256QAM	253.99	mHz
TOP	LTE 5 MHz	QPSK	-64.28	mHz
TOP	LTE 5 MHz	16QAM	198.46	mHz
TOP	LTE 5 MHz	64QAM	149.24	mHz
TOP	LTE 5 MHz	256QAM	-84.22	mHz
BOTTOM	LTE 10 MHz	QPSK	197.74	mHz
BOTTOM	LTE 10 MHz	16QAM	-252.51	mHz
BOTTOM	LTE 10 MHz	64QAM	-239.44	mHz
BOTTOM	LTE 10 MHz	256QAM	-284.15	mHz
MIDDLE	LTE 10 MHz	QPSK	243.57	mHz
MIDDLE	LTE 10 MHz	16QAM	-244.99	mHz
MIDDLE	LTE 10 MHz	64QAM	-138.86	mHz
MIDDLE	LTE 10 MHz	256QAM	251.13	mHz
TOP	LTE 10 MHz	QPSK	83.08	mHz
TOP	LTE 10 MHz	16QAM	-158.36	mHz
TOP	LTE 10 MHz	64QAM	337.30	mHz
TOP	LTE 10 MHz	256QAM	287.07	mHz
BOTTOM	LTE 15 MHz	QPSK	213.38	mHz
BOTTOM	LTE 15 MHz	16QAM	319.74	mHz
BOTTOM	LTE 15 MHz	64QAM	1.61	Hz
BOTTOM	LTE 15 MHz	256QAM	210.20	mHz
MIDDLE	LTE 15 MHz	QPSK	-530.66	mHz
MIDDLE	LTE 15 MHz	16QAM	-1.21	Hz
MIDDLE	LTE 15 MHz	64QAM	-1.70	Hz
MIDDLE	LTE 15 MHz	256QAM	-385.39	mHz
TOP	LTE 15 MHz	QPSK	-342.73	mHz
TOP	LTE 15 MHz	16QAM	-350.51	mHz
TOP	LTE 15 MHz	64QAM	215.57	mHz
TOP	LTE 15 MHz	256QAM	64.98	mHz
BOTTOM	LTE 20 MHz	QPSK	66.34	mHz
BOTTOM	LTE 20 MHz	16QAM	124.52	mHz
BOTTOM	LTE 20 MHz	64QAM	-282.71	mHz
BOTTOM	LTE 20 MHz	256QAM	-65.73	mHz
MIDDLE	LTE 20 MHz	QPSK	806.83	mHz
MIDDLE	LTE 20 MHz	16QAM	-833.03	mHz
MIDDLE	LTE 20 MHz	64QAM	103.31	mHz
MIDDLE	LTE 20 MHz	256QAM	1.30	Hz
TOP	LTE 20 MHz	QPSK	-210.25	mHz
TOP	LTE 20 MHz	16QAM	-76.09	mHz
TOP	LTE 20 MHz	64QAM	-113.96	mHz
TOP	LTE 20 MHz	256QAM	-92.75	mHz

**RF PORT 2**

Temperature = -30°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-586.45	mHz
BOTTOM	LTE 5 MHz	16QAM	-154.06	mHz
BOTTOM	LTE 5 MHz	64QAM	-770.31	mHz
BOTTOM	LTE 5 MHz	256QAM	768.32	mHz
MIDDLE	LTE 5 MHz	QPSK	102.60	mHz
MIDDLE	LTE 5 MHz	16QAM	860.13	mHz
MIDDLE	LTE 5 MHz	64QAM	-683.06	mHz
MIDDLE	LTE 5 MHz	256QAM	3.03	Hz
TOP	LTE 5 MHz	QPSK	130.86	mHz
TOP	LTE 5 MHz	16QAM	55.78	mHz
TOP	LTE 5 MHz	64QAM	486.13	mHz
TOP	LTE 5 MHz	256QAM	291.24	mHz
BOTTOM	LTE 10 MHz	QPSK	271.20	mHz
BOTTOM	LTE 10 MHz	16QAM	316.04	mHz
BOTTOM	LTE 10 MHz	64QAM	860.16	mHz
BOTTOM	LTE 10 MHz	256QAM	714.31	mHz
MIDDLE	LTE 10 MHz	QPSK	395.01	mHz
MIDDLE	LTE 10 MHz	16QAM	-409.74	mHz
MIDDLE	LTE 10 MHz	64QAM	-215.48	mHz
MIDDLE	LTE 10 MHz	256QAM	823.06	mHz
TOP	LTE 10 MHz	QPSK	739.22	mHz
TOP	LTE 10 MHz	16QAM	-2.35	Hz
TOP	LTE 10 MHz	64QAM	-535.07	mHz
TOP	LTE 10 MHz	256QAM	-853.34	mHz
BOTTOM	LTE 15 MHz	QPSK	274.40	mHz
BOTTOM	LTE 15 MHz	16QAM	-488.85	mHz
BOTTOM	LTE 15 MHz	64QAM	-788.90	mHz
BOTTOM	LTE 15 MHz	256QAM	-899.90	mHz
MIDDLE	LTE 15 MHz	QPSK	127.32	mHz
MIDDLE	LTE 15 MHz	16QAM	-2.21	Hz
MIDDLE	LTE 15 MHz	64QAM	-506.56	mHz
MIDDLE	LTE 15 MHz	256QAM	763.29	mHz
TOP	LTE 15 MHz	QPSK	507.23	mHz
TOP	LTE 15 MHz	16QAM	889.25	mHz
TOP	LTE 15 MHz	64QAM	627.72	mHz
TOP	LTE 15 MHz	256QAM	192.24	mHz
BOTTOM	LTE 20 MHz	QPSK	1.44	Hz
BOTTOM	LTE 20 MHz	16QAM	444.42	mHz
BOTTOM	LTE 20 MHz	64QAM	126.29	mHz
BOTTOM	LTE 20 MHz	256QAM	121.34	mHz
MIDDLE	LTE 20 MHz	QPSK	1.83	Hz
MIDDLE	LTE 20 MHz	16QAM	-3.13	Hz
MIDDLE	LTE 20 MHz	64QAM	-416.04	mHz
MIDDLE	LTE 20 MHz	256QAM	-557.41	mHz
TOP	LTE 20 MHz	QPSK	-62.61	mHz
TOP	LTE 20 MHz	16QAM	42.40	mHz
TOP	LTE 20 MHz	64QAM	69.74	mHz
TOP	LTE 20 MHz	256QAM	229.50	mHz



Temperature = -20°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-510.97	mHz
BOTTOM	LTE 5 MHz	16QAM	-117.96	mHz
BOTTOM	LTE 5 MHz	64QAM	229.85	mHz
BOTTOM	LTE 5 MHz	256QAM	-561.06	mHz
MIDDLE	LTE 5 MHz	QPSK	516.65	mHz
MIDDLE	LTE 5 MHz	16QAM	-183.27	mHz
MIDDLE	LTE 5 MHz	64QAM	-646.36	mHz
MIDDLE	LTE 5 MHz	256QAM	-582.39	mHz
TOP	LTE 5 MHz	QPSK	290.70	mHz
TOP	LTE 5 MHz	16QAM	430.48	mHz
TOP	LTE 5 MHz	64QAM	554.48	mHz
TOP	LTE 5 MHz	256QAM	726.91	mHz
BOTTOM	LTE 10 MHz	QPSK	-479.27	mHz
BOTTOM	LTE 10 MHz	16QAM	722.52	mHz
BOTTOM	LTE 10 MHz	64QAM	214.49	mHz
BOTTOM	LTE 10 MHz	256QAM	-350.19	mHz
MIDDLE	LTE 10 MHz	QPSK	-866.40	mHz
MIDDLE	LTE 10 MHz	16QAM	184.92	mHz
MIDDLE	LTE 10 MHz	64QAM	898.08	mHz
MIDDLE	LTE 10 MHz	256QAM	-3.56	Hz
TOP	LTE 10 MHz	QPSK	3.59	Hz
TOP	LTE 10 MHz	16QAM	-321.17	mHz
TOP	LTE 10 MHz	64QAM	-4.13	Hz
TOP	LTE 10 MHz	256QAM	844.49	mHz
BOTTOM	LTE 15 MHz	QPSK	655.49	mHz
BOTTOM	LTE 15 MHz	16QAM	1.07	Hz
BOTTOM	LTE 15 MHz	64QAM	-403.83	mHz
BOTTOM	LTE 15 MHz	256QAM	112.39	mHz
MIDDLE	LTE 15 MHz	QPSK	786.79	mHz
MIDDLE	LTE 15 MHz	16QAM	-2.63	Hz
MIDDLE	LTE 15 MHz	64QAM	-705.14	mHz
MIDDLE	LTE 15 MHz	256QAM	479.15	mHz
TOP	LTE 15 MHz	QPSK	648.75	mHz
TOP	LTE 15 MHz	16QAM	-838.62	mHz
TOP	LTE 15 MHz	64QAM	-248.05	mHz
TOP	LTE 15 MHz	256QAM	3.30	Hz
BOTTOM	LTE 20 MHz	QPSK	324.83	mHz
BOTTOM	LTE 20 MHz	16QAM	874.90	mHz
BOTTOM	LTE 20 MHz	64QAM	-764.53	mHz
BOTTOM	LTE 20 MHz	256QAM	2.92	Hz
MIDDLE	LTE 20 MHz	QPSK	-539.04	mHz
MIDDLE	LTE 20 MHz	16QAM	-856.52	mHz
MIDDLE	LTE 20 MHz	64QAM	-116.70	mHz
MIDDLE	LTE 20 MHz	256QAM	-227.84	mHz
TOP	LTE 20 MHz	QPSK	-239.77	mHz
TOP	LTE 20 MHz	16QAM	-248.96	mHz
TOP	LTE 20 MHz	64QAM	157.79	mHz
TOP	LTE 20 MHz	256QAM	-365.59	mHz



Temperature = -10°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	330.25	mHz
BOTTOM	LTE 5 MHz	16QAM	86.08	mHz
BOTTOM	LTE 5 MHz	64QAM	-447.13	mHz
BOTTOM	LTE 5 MHz	256QAM	-479.03	mHz
MIDDLE	LTE 5 MHz	QPSK	237.31	mHz
MIDDLE	LTE 5 MHz	16QAM	-390.32	mHz
MIDDLE	LTE 5 MHz	64QAM	-63.07	mHz
MIDDLE	LTE 5 MHz	256QAM	-672.47	mHz
TOP	LTE 5 MHz	QPSK	191.32	mHz
TOP	LTE 5 MHz	16QAM	3.70	Hz
TOP	LTE 5 MHz	64QAM	-2.35	Hz
TOP	LTE 5 MHz	256QAM	-870.53	mHz
BOTTOM	LTE 10 MHz	QPSK	603.40	mHz
BOTTOM	LTE 10 MHz	16QAM	2.95	Hz
BOTTOM	LTE 10 MHz	64QAM	-333.15	mHz
BOTTOM	LTE 10 MHz	256QAM	137.52	mHz
MIDDLE	LTE 10 MHz	QPSK	-229.70	mHz
MIDDLE	LTE 10 MHz	16QAM	-655.35	mHz
MIDDLE	LTE 10 MHz	64QAM	-153.26	mHz
MIDDLE	LTE 10 MHz	256QAM	-789.73	mHz
TOP	LTE 10 MHz	QPSK	-79.61	mHz
TOP	LTE 10 MHz	16QAM	568.02	mHz
TOP	LTE 10 MHz	64QAM	-250.60	mHz
TOP	LTE 10 MHz	256QAM	881.93	mHz
BOTTOM	LTE 15 MHz	QPSK	-432.80	mHz
BOTTOM	LTE 15 MHz	16QAM	107.32	mHz
BOTTOM	LTE 15 MHz	64QAM	99.91	mHz
BOTTOM	LTE 15 MHz	256QAM	-142.34	mHz
MIDDLE	LTE 15 MHz	QPSK	-1.37	Hz
MIDDLE	LTE 15 MHz	16QAM	760.65	mHz
MIDDLE	LTE 15 MHz	64QAM	-189.96	mHz
MIDDLE	LTE 15 MHz	256QAM	1.43	Hz
TOP	LTE 15 MHz	QPSK	-478.84	mHz
TOP	LTE 15 MHz	16QAM	575.14	mHz
TOP	LTE 15 MHz	64QAM	-508.72	mHz
TOP	LTE 15 MHz	256QAM	-439.04	mHz
BOTTOM	LTE 20 MHz	QPSK	566.62	mHz
BOTTOM	LTE 20 MHz	16QAM	585.93	mHz
BOTTOM	LTE 20 MHz	64QAM	256.75	mHz
BOTTOM	LTE 20 MHz	256QAM	331.65	mHz
MIDDLE	LTE 20 MHz	QPSK	-1.91	Hz
MIDDLE	LTE 20 MHz	16QAM	-2.67	Hz
MIDDLE	LTE 20 MHz	64QAM	-404.53	mHz
MIDDLE	LTE 20 MHz	256QAM	-252.96	mHz
TOP	LTE 20 MHz	QPSK	510.84	mHz
TOP	LTE 20 MHz	16QAM	2.24	Hz
TOP	LTE 20 MHz	64QAM	541.49	mHz
TOP	LTE 20 MHz	256QAM	-77.51	mHz

Temperature = 0°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	318.79	mHz
BOTTOM	LTE 5 MHz	16QAM	-458.14	mHz
BOTTOM	LTE 5 MHz	64QAM	-727.07	mHz
BOTTOM	LTE 5 MHz	256QAM	-2.34	Hz
MIDDLE	LTE 5 MHz	QPSK	-367.04	mHz
MIDDLE	LTE 5 MHz	16QAM	1.80	Hz
MIDDLE	LTE 5 MHz	64QAM	-547.99	mHz
MIDDLE	LTE 5 MHz	256QAM	683.85	mHz
TOP	LTE 5 MHz	QPSK	449.77	mHz
TOP	LTE 5 MHz	16QAM	447.85	mHz
TOP	LTE 5 MHz	64QAM	841.08	mHz
TOP	LTE 5 MHz	256QAM	841.93	mHz
BOTTOM	LTE 10 MHz	QPSK	573.94	mHz
BOTTOM	LTE 10 MHz	16QAM	853.71	mHz
BOTTOM	LTE 10 MHz	64QAM	-746.23	mHz
BOTTOM	LTE 10 MHz	256QAM	-323.59	mHz
MIDDLE	LTE 10 MHz	QPSK	-1.43	Hz
MIDDLE	LTE 10 MHz	16QAM	835.30	mHz
MIDDLE	LTE 10 MHz	64QAM	89.60	mHz
MIDDLE	LTE 10 MHz	256QAM	887.04	mHz
TOP	LTE 10 MHz	QPSK	189.90	mHz
TOP	LTE 10 MHz	16QAM	490.56	mHz
TOP	LTE 10 MHz	64QAM	-37.30	mHz
TOP	LTE 10 MHz	256QAM	775.39	mHz
BOTTOM	LTE 15 MHz	QPSK	893.24	mHz
BOTTOM	LTE 15 MHz	16QAM	-76.90	mHz
BOTTOM	LTE 15 MHz	64QAM	-352.87	mHz
BOTTOM	LTE 15 MHz	256QAM	-362.38	mHz
MIDDLE	LTE 15 MHz	QPSK	-837.58	mHz
MIDDLE	LTE 15 MHz	16QAM	-257.71	mHz
MIDDLE	LTE 15 MHz	64QAM	1.50	Hz
MIDDLE	LTE 15 MHz	256QAM	310.91	mHz
TOP	LTE 15 MHz	QPSK	-808.23	mHz
TOP	LTE 15 MHz	16QAM	868.98	mHz
TOP	LTE 15 MHz	64QAM	-241.87	mHz
TOP	LTE 15 MHz	256QAM	3.84	Hz
BOTTOM	LTE 20 MHz	QPSK	-665.84	mHz
BOTTOM	LTE 20 MHz	16QAM	225.89	mHz
BOTTOM	LTE 20 MHz	64QAM	724.20	mHz
BOTTOM	LTE 20 MHz	256QAM	-379.59	mHz
MIDDLE	LTE 20 MHz	QPSK	-891.25	mHz
MIDDLE	LTE 20 MHz	16QAM	1.11	Hz
MIDDLE	LTE 20 MHz	64QAM	-298.31	mHz
MIDDLE	LTE 20 MHz	256QAM	-353.51	mHz
TOP	LTE 20 MHz	QPSK	-663.94	mHz
TOP	LTE 20 MHz	16QAM	-567.48	mHz
TOP	LTE 20 MHz	64QAM	-1.44	Hz
TOP	LTE 20 MHz	256QAM	573.97	mHz

Temperature = 10°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	544.79	mHz
BOTTOM	LTE 5 MHz	16QAM	49.46	mHz
BOTTOM	LTE 5 MHz	64QAM	-509.63	mHz
BOTTOM	LTE 5 MHz	256QAM	3.72	Hz
MIDDLE	LTE 5 MHz	QPSK	588.86	mHz
MIDDLE	LTE 5 MHz	16QAM	441.38	mHz
MIDDLE	LTE 5 MHz	64QAM	453.22	mHz
MIDDLE	LTE 5 MHz	256QAM	-300.21	mHz
TOP	LTE 5 MHz	QPSK	-628.29	mHz
TOP	LTE 5 MHz	16QAM	-832.77	mHz
TOP	LTE 5 MHz	64QAM	-567.52	mHz
TOP	LTE 5 MHz	256QAM	1.50	Hz
BOTTOM	LTE 10 MHz	QPSK	-428.28	mHz
BOTTOM	LTE 10 MHz	16QAM	-402.50	mHz
BOTTOM	LTE 10 MHz	64QAM	768.89	mHz
BOTTOM	LTE 10 MHz	256QAM	-58.13	mHz
MIDDLE	LTE 10 MHz	QPSK	-498.54	mHz
MIDDLE	LTE 10 MHz	16QAM	-606.89	mHz
MIDDLE	LTE 10 MHz	64QAM	-595.71	mHz
MIDDLE	LTE 10 MHz	256QAM	257.84	mHz
TOP	LTE 10 MHz	QPSK	423.67	mHz
TOP	LTE 10 MHz	16QAM	679.77	mHz
TOP	LTE 10 MHz	64QAM	-0.39	Hz
TOP	LTE 10 MHz	256QAM	-2.56	Hz
BOTTOM	LTE 15 MHz	QPSK	-409.21	mHz
BOTTOM	LTE 15 MHz	16QAM	-895.20	mHz
BOTTOM	LTE 15 MHz	64QAM	-181.41	mHz
BOTTOM	LTE 15 MHz	256QAM	-141.79	mHz
MIDDLE	LTE 15 MHz	QPSK	673.37	mHz
MIDDLE	LTE 15 MHz	16QAM	209.15	mHz
MIDDLE	LTE 15 MHz	64QAM	-164.29	mHz
MIDDLE	LTE 15 MHz	256QAM	-253.90	mHz
TOP	LTE 15 MHz	QPSK	2.60	Hz
TOP	LTE 15 MHz	16QAM	-193.83	mHz
TOP	LTE 15 MHz	64QAM	-2.01	Hz
TOP	LTE 15 MHz	256QAM	550.30	mHz
BOTTOM	LTE 20 MHz	QPSK	-154.26	mHz
BOTTOM	LTE 20 MHz	16QAM	816.40	mHz
BOTTOM	LTE 20 MHz	64QAM	347.81	mHz
BOTTOM	LTE 20 MHz	256QAM	-662.65	mHz
MIDDLE	LTE 20 MHz	QPSK	2.35	Hz
MIDDLE	LTE 20 MHz	16QAM	-411.93	mHz
MIDDLE	LTE 20 MHz	64QAM	-244.93	mHz
MIDDLE	LTE 20 MHz	256QAM	621.30	mHz
TOP	LTE 20 MHz	QPSK	473.66	mHz
TOP	LTE 20 MHz	16QAM	2.79	Hz
TOP	LTE 20 MHz	64QAM	1.76	Hz
TOP	LTE 20 MHz	256QAM	-712.33	mHz

Temperature = 20°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	239.09	mHz
BOTTOM	LTE 5 MHz	16QAM	-372.94	mHz
BOTTOM	LTE 5 MHz	64QAM	-725.04	mHz
BOTTOM	LTE 5 MHz	256QAM	723.10	mHz
MIDDLE	LTE 5 MHz	QPSK	425.37	mHz
MIDDLE	LTE 5 MHz	16QAM	821.74	mHz
MIDDLE	LTE 5 MHz	64QAM	-80.71	mHz
MIDDLE	LTE 5 MHz	256QAM	167.92	mHz
TOP	LTE 5 MHz	QPSK	70.55	mHz
TOP	LTE 5 MHz	16QAM	-487.07	mHz
TOP	LTE 5 MHz	64QAM	2.53	Hz
TOP	LTE 5 MHz	256QAM	135.96	mHz
BOTTOM	LTE 10 MHz	QPSK	506.44	mHz
BOTTOM	LTE 10 MHz	16QAM	371.24	mHz
BOTTOM	LTE 10 MHz	64QAM	332.39	mHz
BOTTOM	LTE 10 MHz	256QAM	-4.72	Hz
MIDDLE	LTE 10 MHz	QPSK	-3.77	Hz
MIDDLE	LTE 10 MHz	16QAM	-250.50	mHz
MIDDLE	LTE 10 MHz	64QAM	-397.54	mHz
MIDDLE	LTE 10 MHz	256QAM	-780.46	mHz
TOP	LTE 10 MHz	QPSK	210.21	mHz
TOP	LTE 10 MHz	16QAM	-418.43	mHz
TOP	LTE 10 MHz	64QAM	541.65	mHz
TOP	LTE 10 MHz	256QAM	818.13	mHz
BOTTOM	LTE 15 MHz	QPSK	-267.46	mHz
BOTTOM	LTE 15 MHz	16QAM	162.04	mHz
BOTTOM	LTE 15 MHz	64QAM	789.75	mHz
BOTTOM	LTE 15 MHz	256QAM	266.15	mHz
MIDDLE	LTE 15 MHz	QPSK	615.30	mHz
MIDDLE	LTE 15 MHz	16QAM	-179.37	mHz
MIDDLE	LTE 15 MHz	64QAM	679.32	mHz
MIDDLE	LTE 15 MHz	256QAM	33.47	mHz
TOP	LTE 15 MHz	QPSK	-232.23	mHz
TOP	LTE 15 MHz	16QAM	-2.99	Hz
TOP	LTE 15 MHz	64QAM	-1.33	Hz
TOP	LTE 15 MHz	256QAM	273.24	mHz
BOTTOM	LTE 20 MHz	QPSK	123.94	mHz
BOTTOM	LTE 20 MHz	16QAM	-267.75	mHz
BOTTOM	LTE 20 MHz	64QAM	685.25	mHz
BOTTOM	LTE 20 MHz	256QAM	1.88	Hz
MIDDLE	LTE 20 MHz	QPSK	880.91	mHz
MIDDLE	LTE 20 MHz	16QAM	845.66	mHz
MIDDLE	LTE 20 MHz	64QAM	801.33	mHz
MIDDLE	LTE 20 MHz	256QAM	96.21	mHz
TOP	LTE 20 MHz	QPSK	2.30	Hz
TOP	LTE 20 MHz	16QAM	368.37	mHz
TOP	LTE 20 MHz	64QAM	-869.20	mHz
TOP	LTE 20 MHz	256QAM	-709.66	mHz

Temperature = 30°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-387.19	mHz
BOTTOM	LTE 5 MHz	16QAM	317.35	mHz
BOTTOM	LTE 5 MHz	64QAM	697.12	mHz
BOTTOM	LTE 5 MHz	256QAM	-251.02	mHz
MIDDLE	LTE 5 MHz	QPSK	-461.49	mHz
MIDDLE	LTE 5 MHz	16QAM	-646.21	mHz
MIDDLE	LTE 5 MHz	64QAM	188.78	mHz
MIDDLE	LTE 5 MHz	256QAM	-430.99	mHz
TOP	LTE 5 MHz	QPSK	879.93	mHz
TOP	LTE 5 MHz	16QAM	56.65	mHz
TOP	LTE 5 MHz	64QAM	790.84	mHz
TOP	LTE 5 MHz	256QAM	492.48	mHz
BOTTOM	LTE 10 MHz	QPSK	-180.96	mHz
BOTTOM	LTE 10 MHz	16QAM	-605.24	mHz
BOTTOM	LTE 10 MHz	64QAM	3.30	Hz
BOTTOM	LTE 10 MHz	256QAM	-425.41	mHz
MIDDLE	LTE 10 MHz	QPSK	-1.87	Hz
MIDDLE	LTE 10 MHz	16QAM	509.55	mHz
MIDDLE	LTE 10 MHz	64QAM	-541.16	mHz
MIDDLE	LTE 10 MHz	256QAM	797.39	mHz
TOP	LTE 10 MHz	QPSK	738.85	mHz
TOP	LTE 10 MHz	16QAM	653.71	mHz
TOP	LTE 10 MHz	64QAM	533.69	mHz
TOP	LTE 10 MHz	256QAM	588.91	mHz
BOTTOM	LTE 15 MHz	QPSK	-568.55	mHz
BOTTOM	LTE 15 MHz	16QAM	-267.02	mHz
BOTTOM	LTE 15 MHz	64QAM	508.15	mHz
BOTTOM	LTE 15 MHz	256QAM	-2.05	Hz
MIDDLE	LTE 15 MHz	QPSK	-575.67	mHz
MIDDLE	LTE 15 MHz	16QAM	-2.05	Hz
MIDDLE	LTE 15 MHz	64QAM	800.16	mHz
MIDDLE	LTE 15 MHz	256QAM	-761.42	mHz
TOP	LTE 15 MHz	QPSK	-615.32	mHz
TOP	LTE 15 MHz	16QAM	52.60	mHz
TOP	LTE 15 MHz	64QAM	-401.59	mHz
TOP	LTE 15 MHz	256QAM	2.37	Hz
BOTTOM	LTE 20 MHz	QPSK	595.63	mHz
BOTTOM	LTE 20 MHz	16QAM	-155.49	mHz
BOTTOM	LTE 20 MHz	64QAM	-498.52	mHz
BOTTOM	LTE 20 MHz	256QAM	-175.22	mHz
MIDDLE	LTE 20 MHz	QPSK	-769.90	mHz
MIDDLE	LTE 20 MHz	16QAM	197.07	mHz
MIDDLE	LTE 20 MHz	64QAM	279.45	mHz
MIDDLE	LTE 20 MHz	256QAM	-862.02	mHz
TOP	LTE 20 MHz	QPSK	-226.92	mHz
TOP	LTE 20 MHz	16QAM	-405.49	mHz
TOP	LTE 20 MHz	64QAM	94.69	mHz
TOP	LTE 20 MHz	256QAM	-800.87	mHz

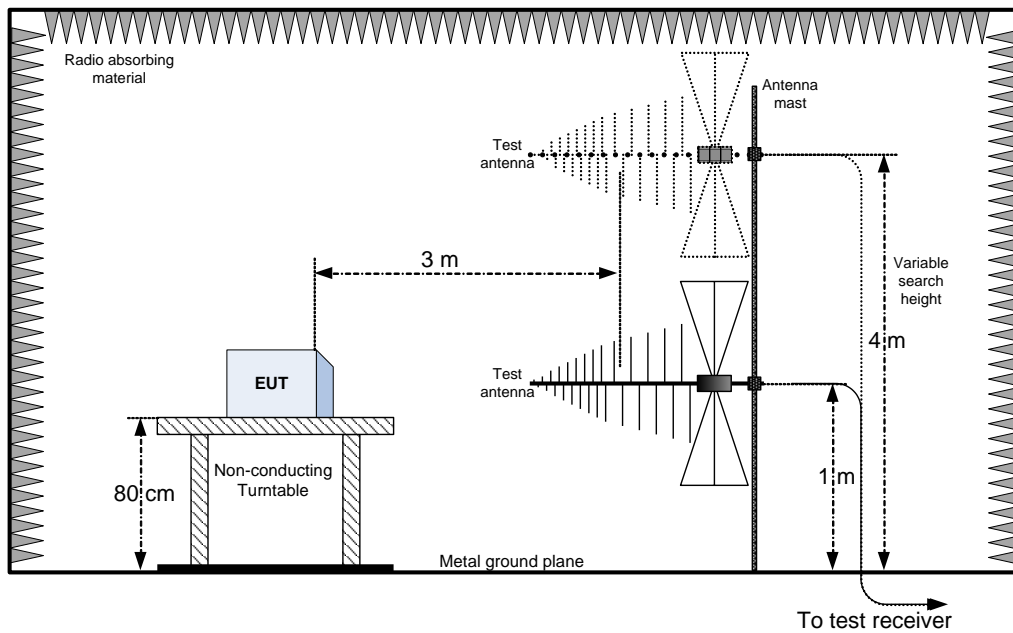
Temperature = 40°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-848.77	mHz
BOTTOM	LTE 5 MHz	16QAM	20.98	mHz
BOTTOM	LTE 5 MHz	64QAM	-247.04	mHz
BOTTOM	LTE 5 MHz	256QAM	-614.97	mHz
MIDDLE	LTE 5 MHz	QPSK	-638.88	mHz
MIDDLE	LTE 5 MHz	16QAM	-765.80	mHz
MIDDLE	LTE 5 MHz	64QAM	846.64	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	2.63	Hz
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	3.01	Hz
TOP	LTE 10 MHz	QPSK	462.61	mHz
TOP	LTE 10 MHz	16QAM	3.82	Hz
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	3.90	Hz
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	2.93	Hz
TOP	LTE 15 MHz	QPSK	-845.98	mHz
TOP	LTE 15 MHz	16QAM	381.85	mHz
TOP	LTE 15 MHz	64QAM	-2.76	Hz
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	2.34	Hz
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	-63.26	mHz
BOTTOM	LTE 5 MHz	16QAM	-656.50	mHz
BOTTOM	LTE 5 MHz	64QAM	-379.82	mHz
BOTTOM	LTE 5 MHz	256QAM	-560.46	mHz
MIDDLE	LTE 5 MHz	QPSK	161.50	mHz
MIDDLE	LTE 5 MHz	16QAM	-69.22	mHz
MIDDLE	LTE 5 MHz	64QAM	739.51	mHz
MIDDLE	LTE 5 MHz	256QAM	-73.18	mHz
TOP	LTE 5 MHz	QPSK	-137.56	mHz
TOP	LTE 5 MHz	16QAM	464.53	mHz
TOP	LTE 5 MHz	64QAM	717.23	mHz
TOP	LTE 5 MHz	256QAM	-651.13	mHz
BOTTOM	LTE 10 MHz	QPSK	53.74	mHz
BOTTOM	LTE 10 MHz	16QAM	21.87	mHz
BOTTOM	LTE 10 MHz	64QAM	-3.39	Hz
BOTTOM	LTE 10 MHz	256QAM	-521.39	mHz
MIDDLE	LTE 10 MHz	QPSK	-2.23	Hz
MIDDLE	LTE 10 MHz	16QAM	-562.56	mHz
MIDDLE	LTE 10 MHz	64QAM	536.89	mHz
MIDDLE	LTE 10 MHz	256QAM	100.43	mHz
TOP	LTE 10 MHz	QPSK	48.00	mHz
TOP	LTE 10 MHz	16QAM	-467.93	mHz
TOP	LTE 10 MHz	64QAM	-2.90	Hz
TOP	LTE 10 MHz	256QAM	-876.17	mHz
BOTTOM	LTE 15 MHz	QPSK	-767.80	mHz
BOTTOM	LTE 15 MHz	16QAM	-555.61	mHz
BOTTOM	LTE 15 MHz	64QAM	890.31	mHz
BOTTOM	LTE 15 MHz	256QAM	-3.50	Hz
MIDDLE	LTE 15 MHz	QPSK	162.19	mHz
MIDDLE	LTE 15 MHz	16QAM	682.34	mHz
MIDDLE	LTE 15 MHz	64QAM	-245.96	mHz
MIDDLE	LTE 15 MHz	256QAM	568.14	mHz
TOP	LTE 15 MHz	QPSK	1.12	Hz
TOP	LTE 15 MHz	16QAM	723.95	mHz
TOP	LTE 15 MHz	64QAM	-854.52	mHz
TOP	LTE 15 MHz	256QAM	281.28	mHz
BOTTOM	LTE 20 MHz	QPSK	2.61	Hz
BOTTOM	LTE 20 MHz	16QAM	-765.08	mHz
BOTTOM	LTE 20 MHz	64QAM	1.59	Hz
BOTTOM	LTE 20 MHz	256QAM	308.25	mHz
MIDDLE	LTE 20 MHz	QPSK	-99.77	mHz
MIDDLE	LTE 20 MHz	16QAM	-3.39	Hz
MIDDLE	LTE 20 MHz	64QAM	-157.17	mHz
MIDDLE	LTE 20 MHz	256QAM	-331.44	mHz
TOP	LTE 20 MHz	QPSK	848.43	mHz
TOP	LTE 20 MHz	16QAM	-743.97	mHz
TOP	LTE 20 MHz	64QAM	246.19	mHz
TOP	LTE 20 MHz	256QAM	-382.44	mHz

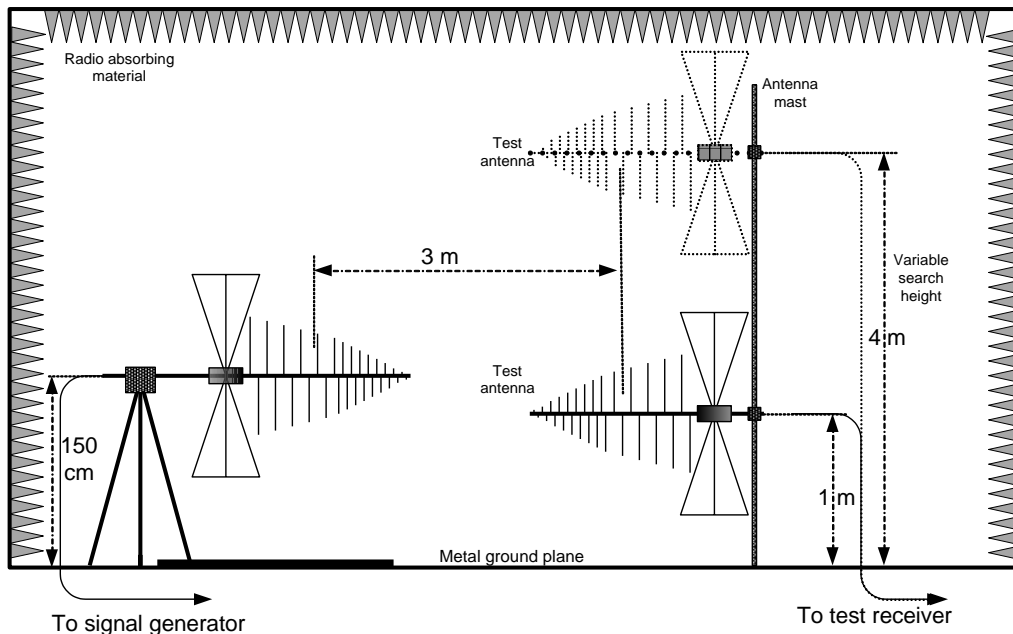


## Appendix B: Block diagrams of test set-ups

### Radiated emissions set-up



### Substitution method set-up





## Appendix C: EUT Photos

### Photo Set up



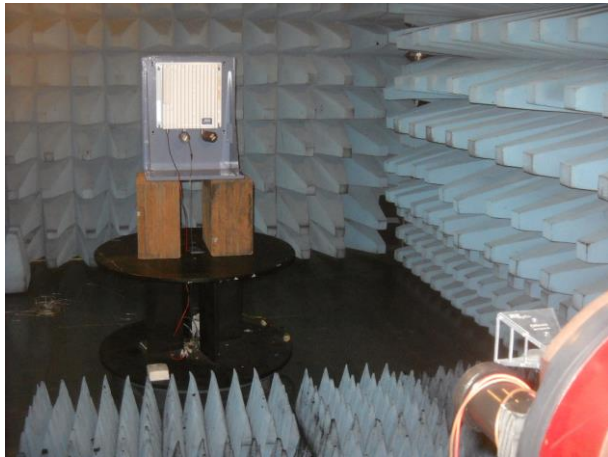
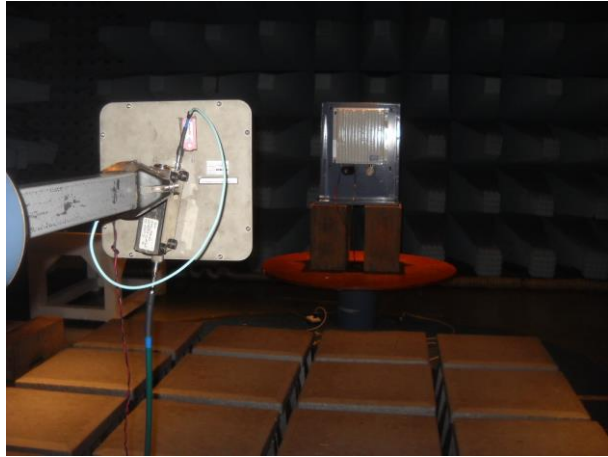


Photo EUT







END OF REPORT