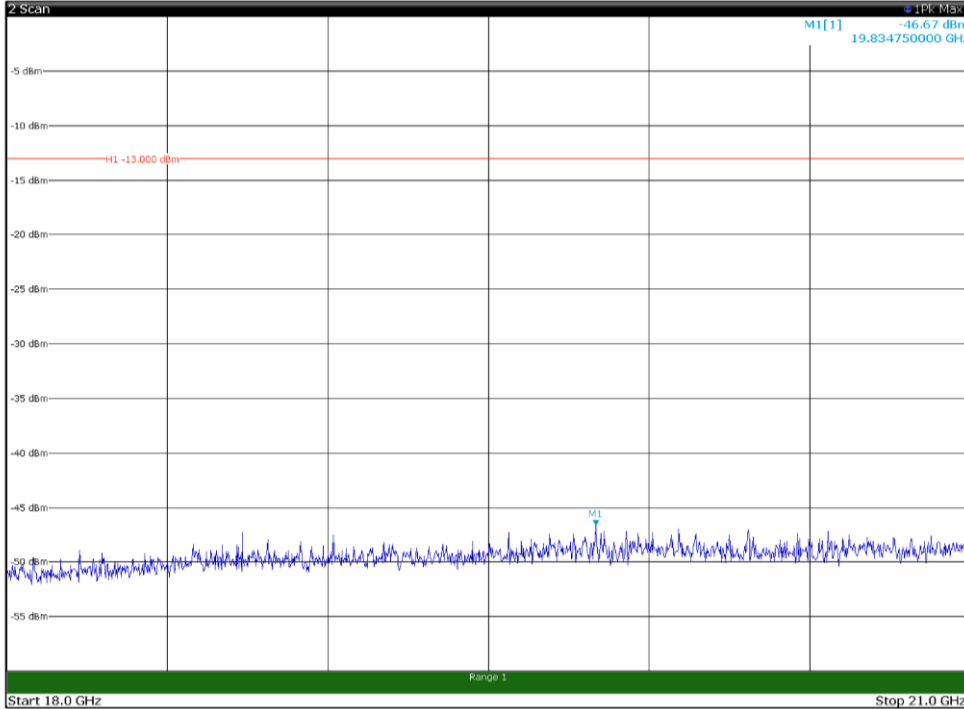
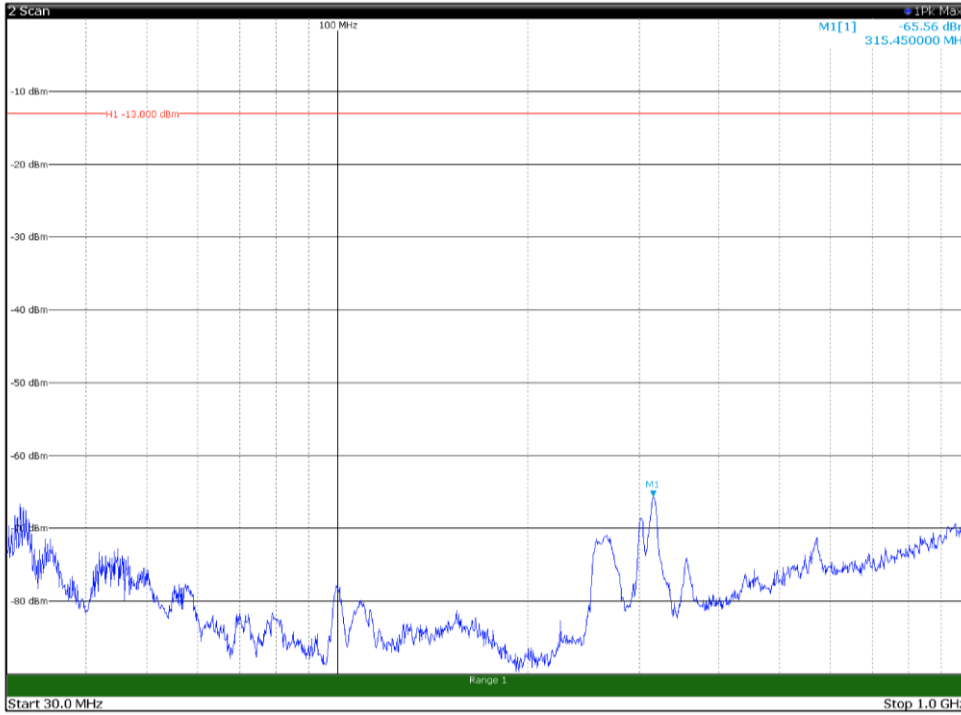


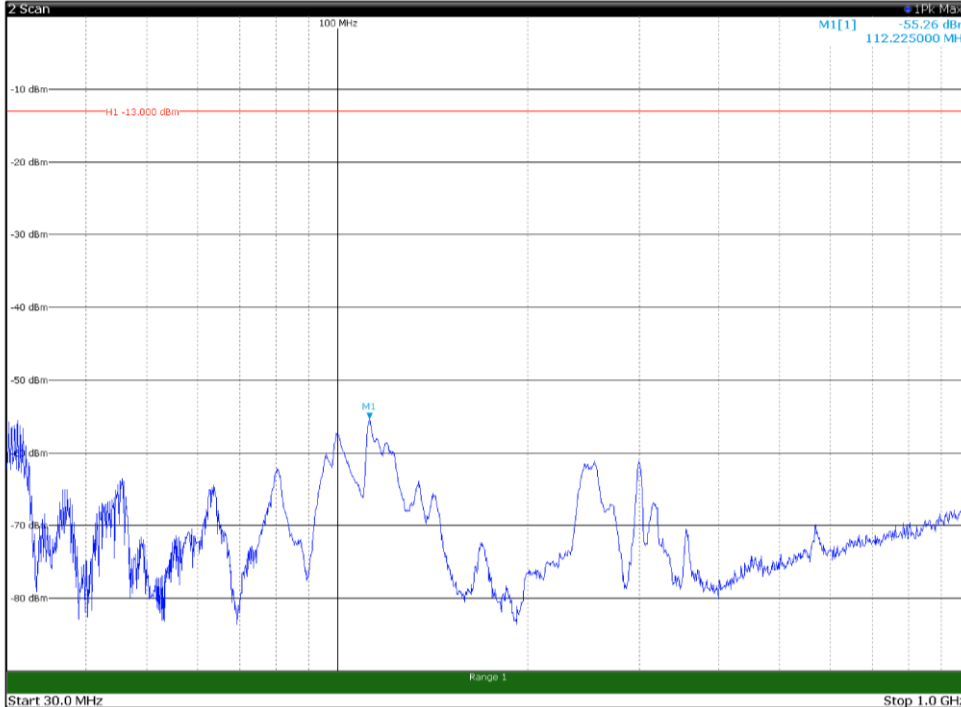
Channel: TOP, Modulation: 64QAM,  
 BW=20MHz, Range: 18GHz - 21GHz, Polarization: Horizontal



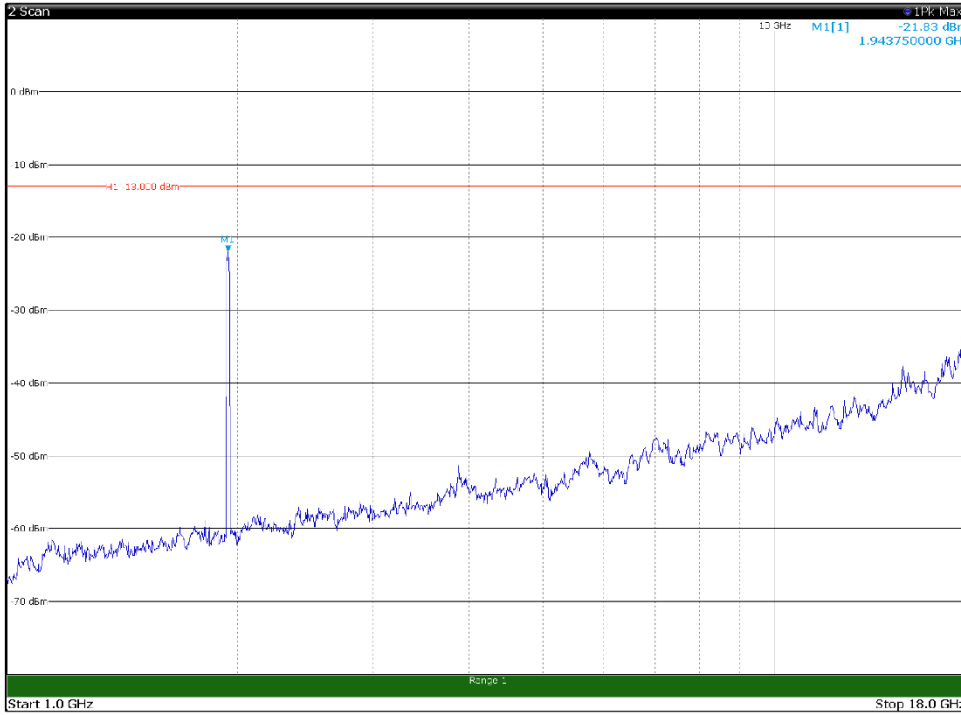
Channel: TOP, Modulation: 64QAM,  
 BW=20MHz, Range: 18GHz - 21GHz, Polarization: Vertical



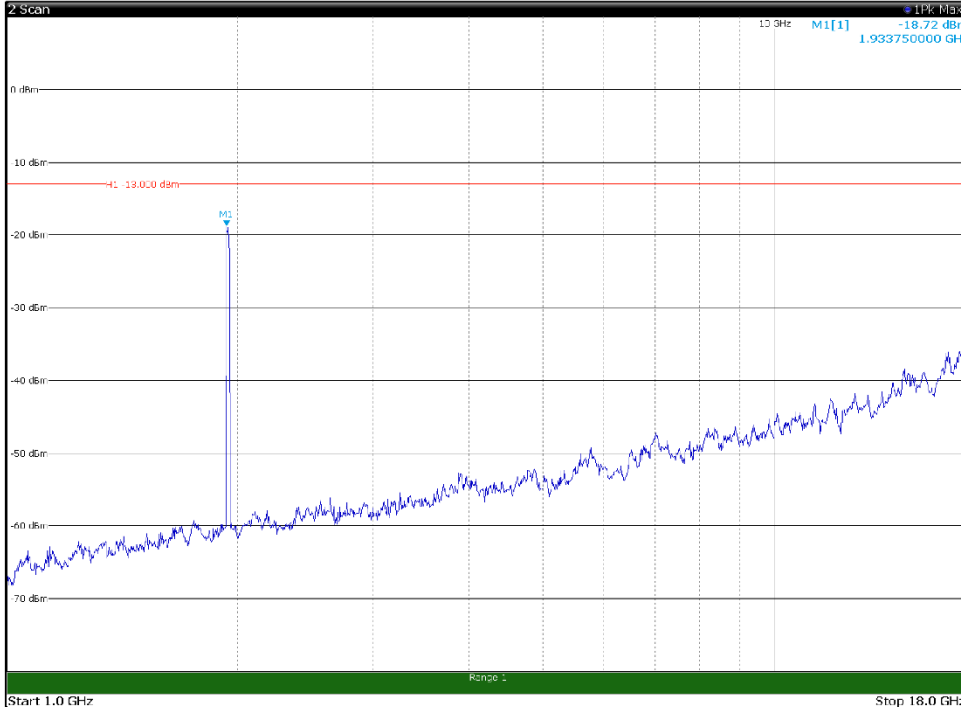
Channel: BOTTOM, Modulation: 256QAM,  
 BW=20MHz, Range: 30MHz - 1GHz, Polarization: Horizontal



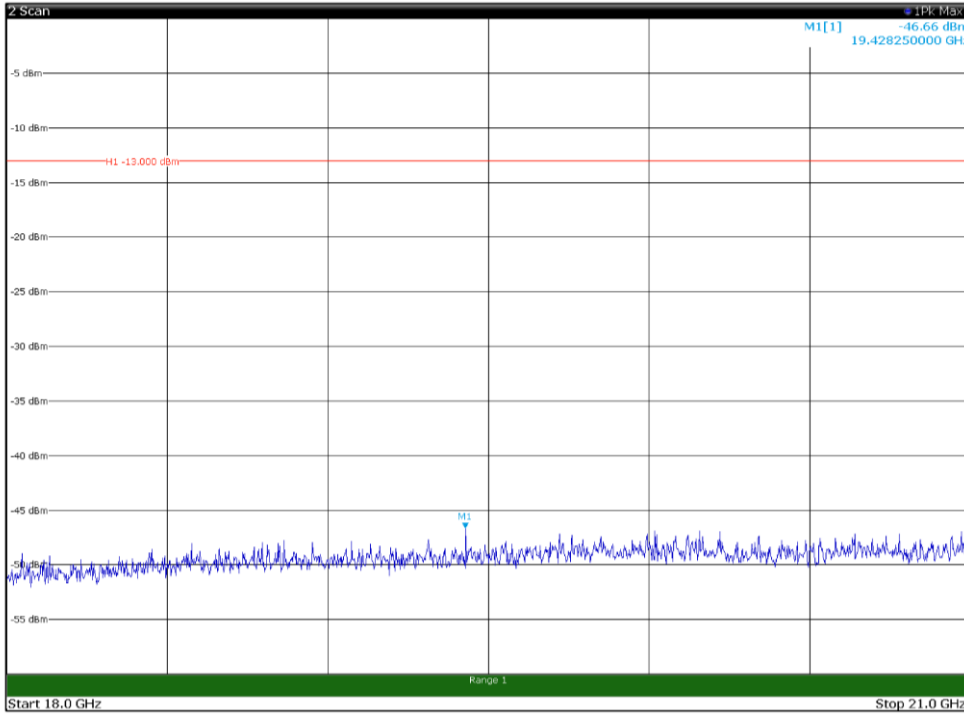
Channel: BOTTOM, Modulation: 256QAM,  
 BW=20MHz, Range: 30MHz - 1GHz, Polarization: Vertical



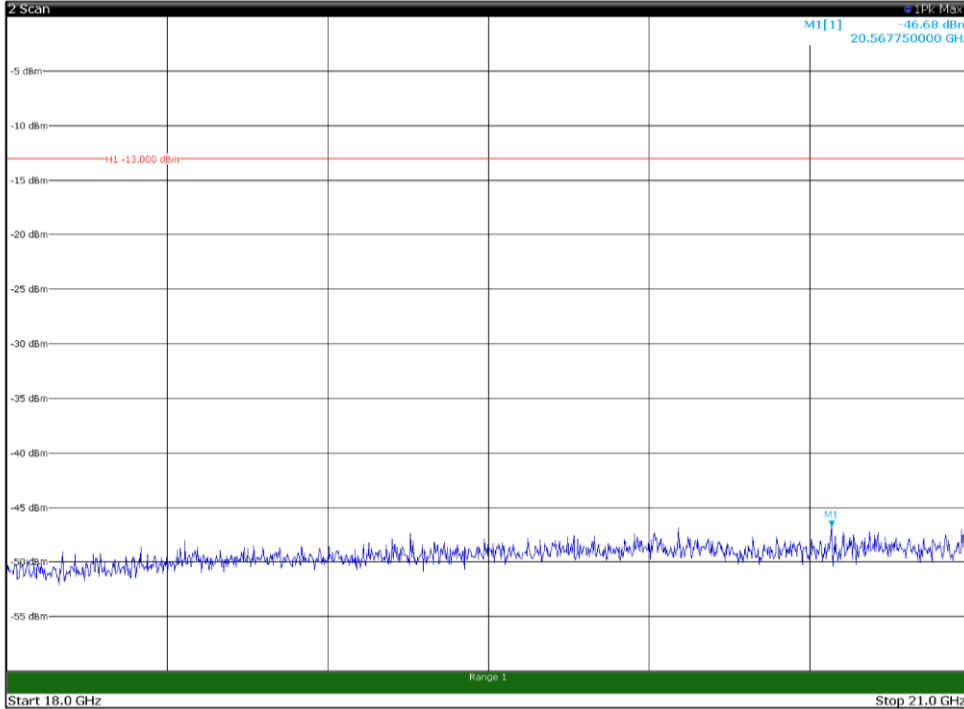
Channel: BOTTOM, Modulation: 256QAM,  
BW=20MHz, Range: 1GHz - 18GHz, Polarization: Horizontal



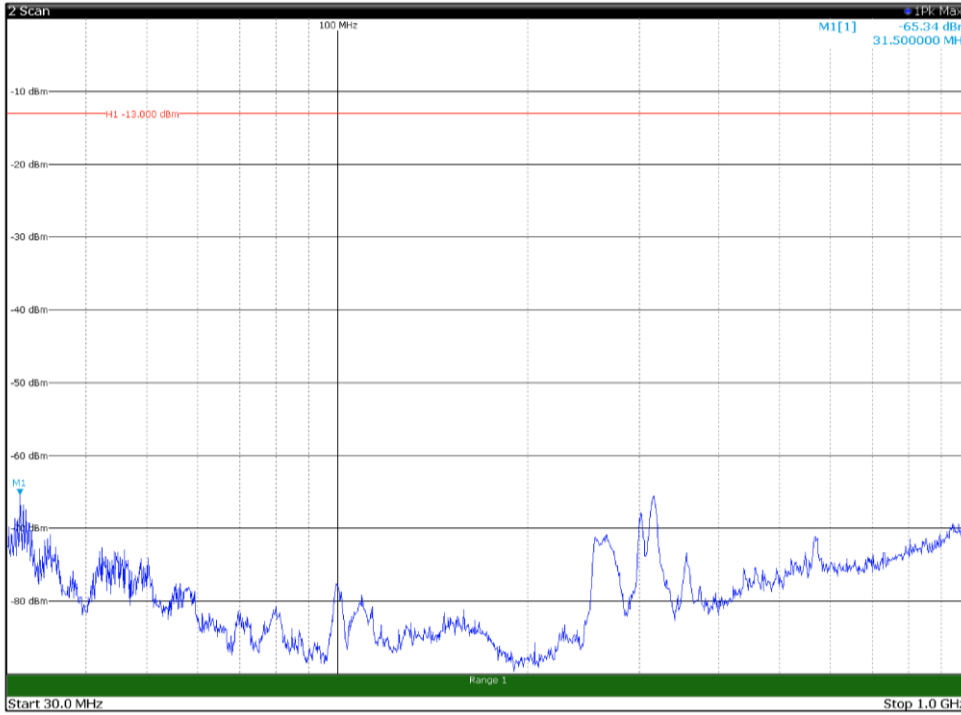
Channel: BOTTOM, Modulation: 256QAM,  
BW=20MHz, Range: 1GHz - 18GHz, Polarization: Vertical



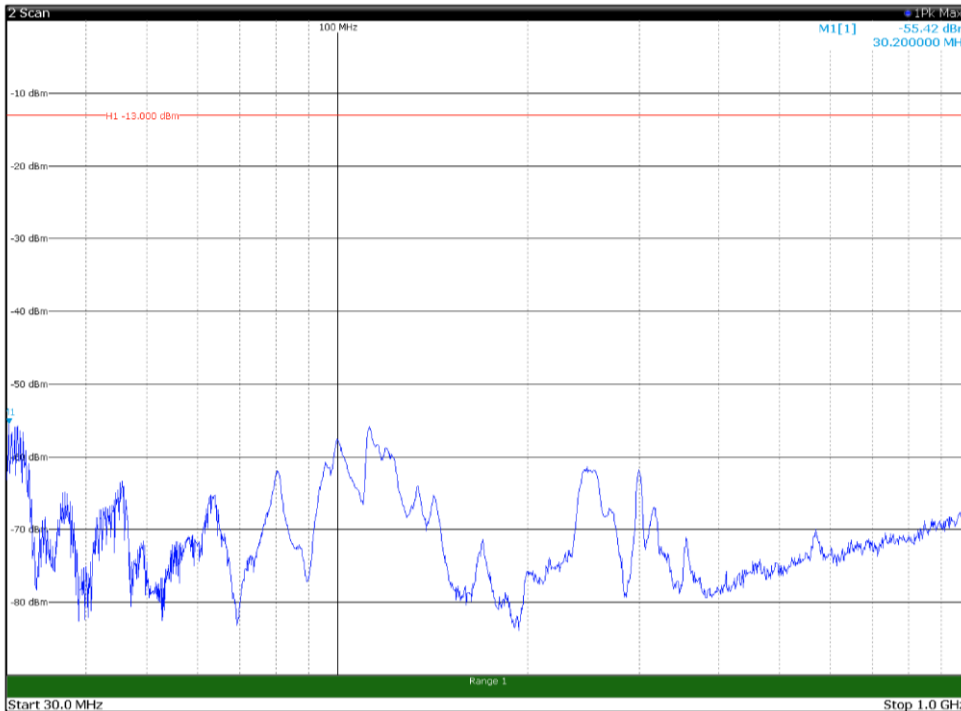
Channel: BOTTOM, Modulation: 256QAM,  
BW=20MHz, Range: 18GHz - 21GHz, Polarization: Horizontal



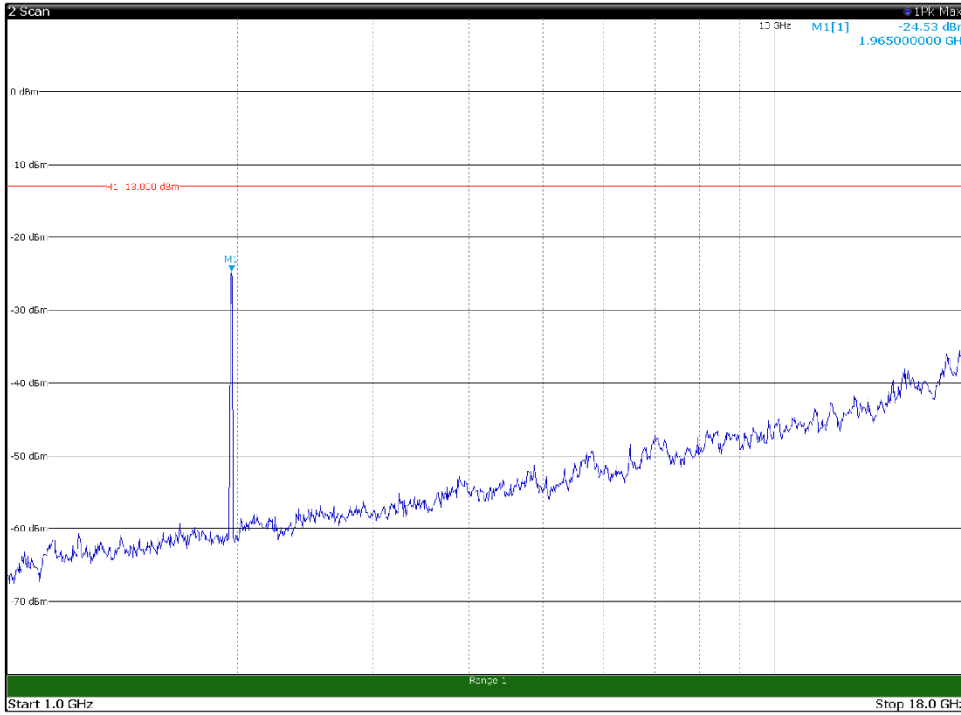
Channel: BOTTOM, Modulation: 256QAM,  
BW=20MHz, Range: 18GHz - 21GHz, Polarization: Vertical



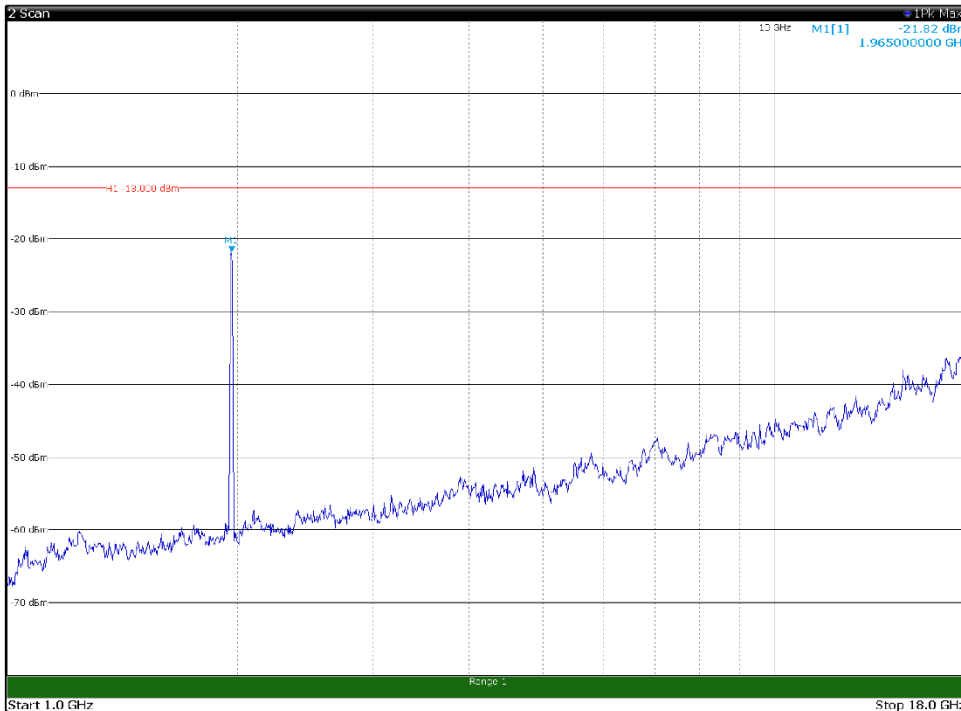
Channel: MIDDLE, Modulation: 256QAM,  
BW=20MHz, Range: 30MHz - 1GHz, Polarization: Horizontal



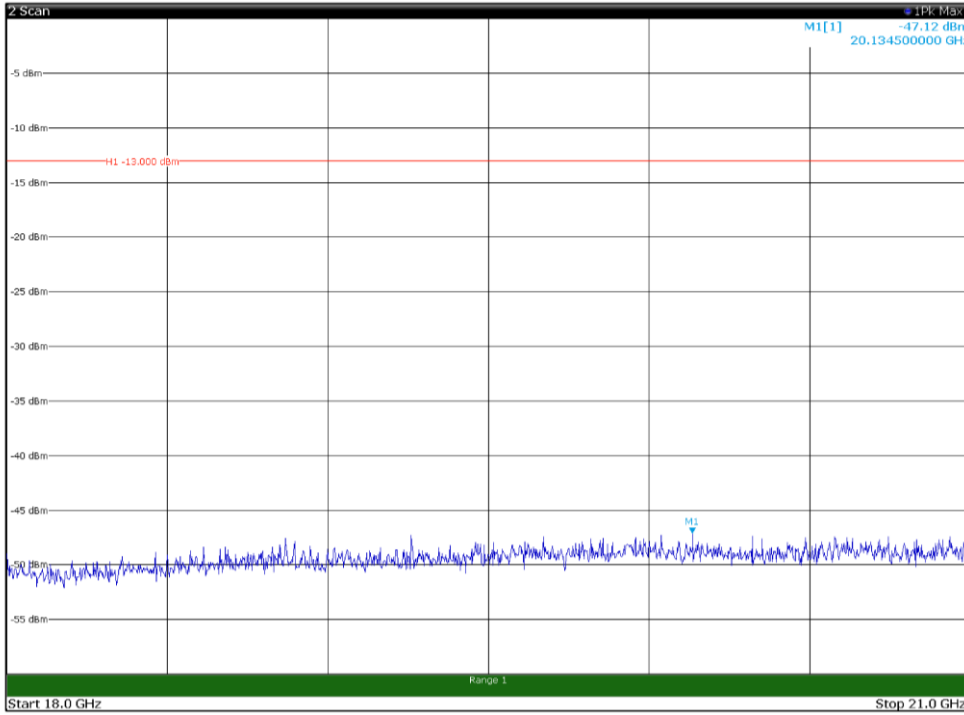
Channel: MIDDLE, Modulation: 256QAM,  
BW=20MHz, Range: 30MHz - 1GHz, Polarization: Vertical



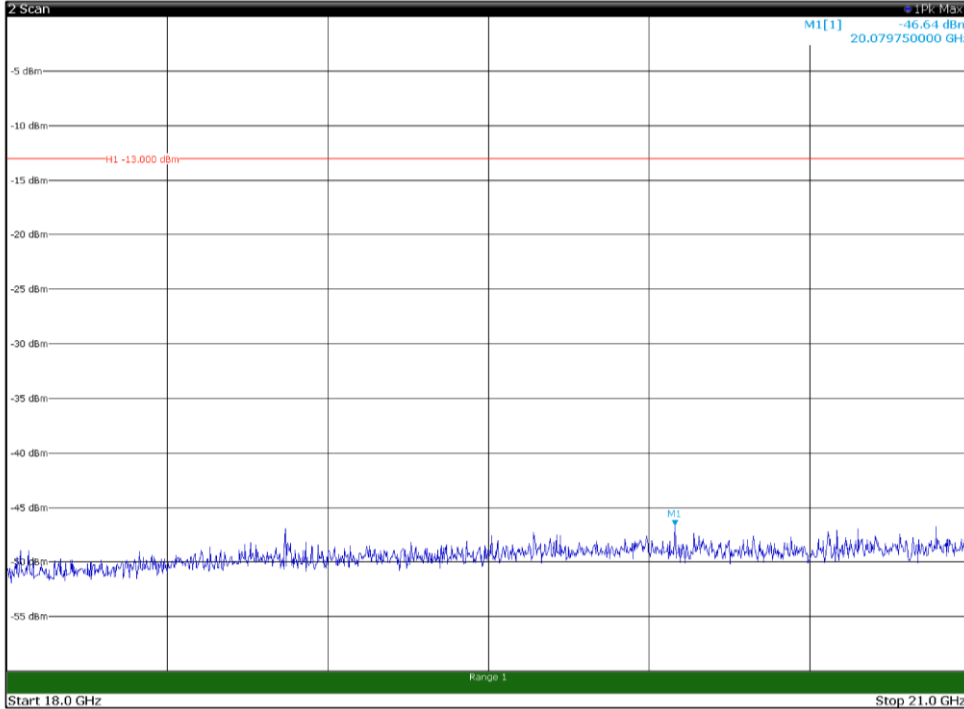
Channel: MIDDLE, Modulation: 256QAM,  
BW=20MHz, Range: 1GHz - 18GHz, Polarization: Horizontal



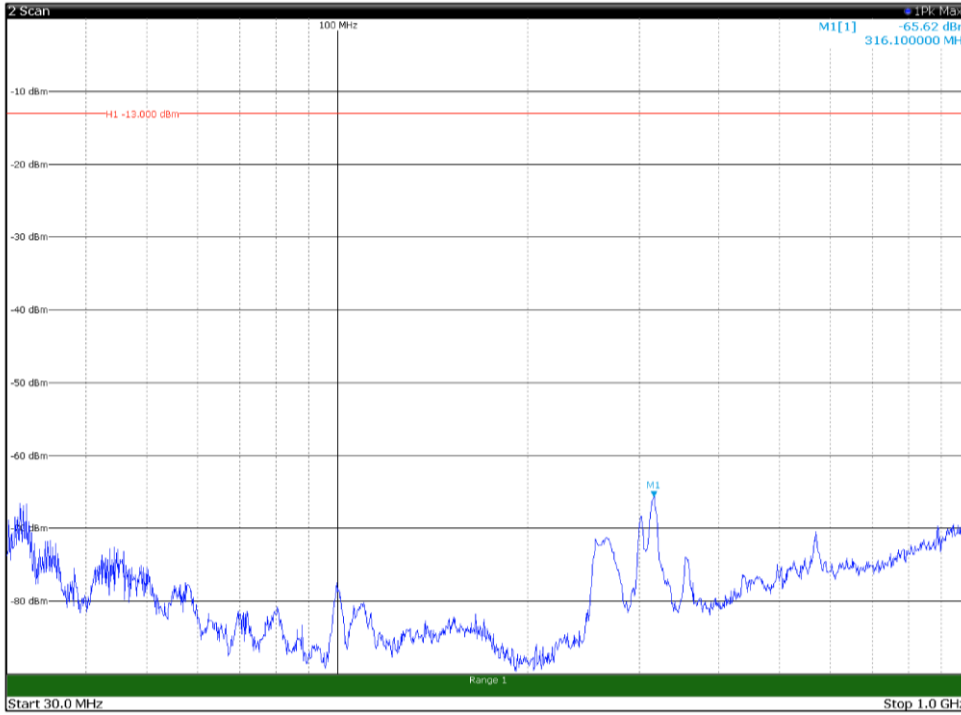
Channel: MIDDLE, Modulation: 256QAM,  
BW=20MHz, Range: 1GHz - 18GHz, Polarization: Vertical



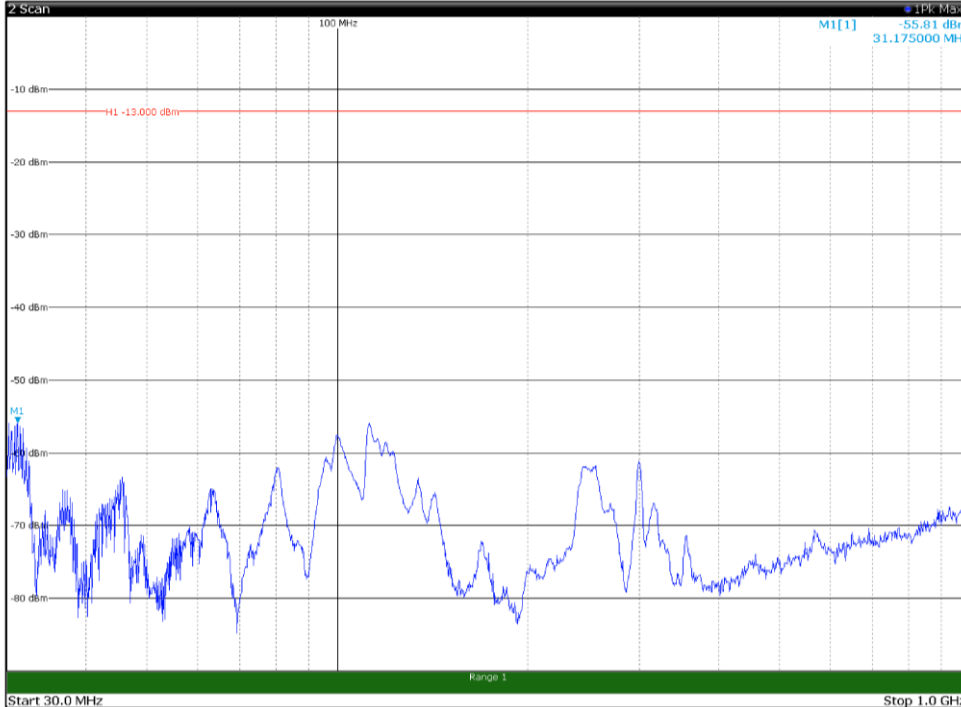
Channel: MIDDLE, Modulation: 256QAM,  
BW=20MHz, Range: 18GHz - 21GHz, Polarization: Horizontal



Channel: MIDDLE, Modulation: 256QAM,  
BW=20MHz, Range: 18GHz - 21GHz, Polarization: Vertical

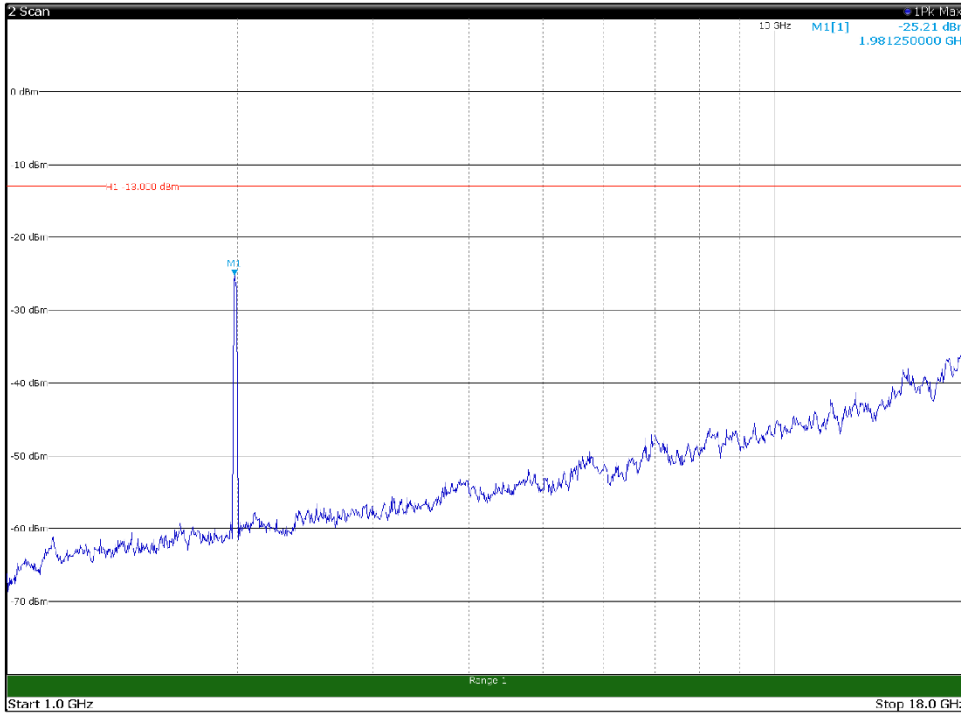


Channel: TOP, Modulation: 256QAM,  
BW=20MHz, Range: 30MHz - 1GHz, Polarization: Horizontal

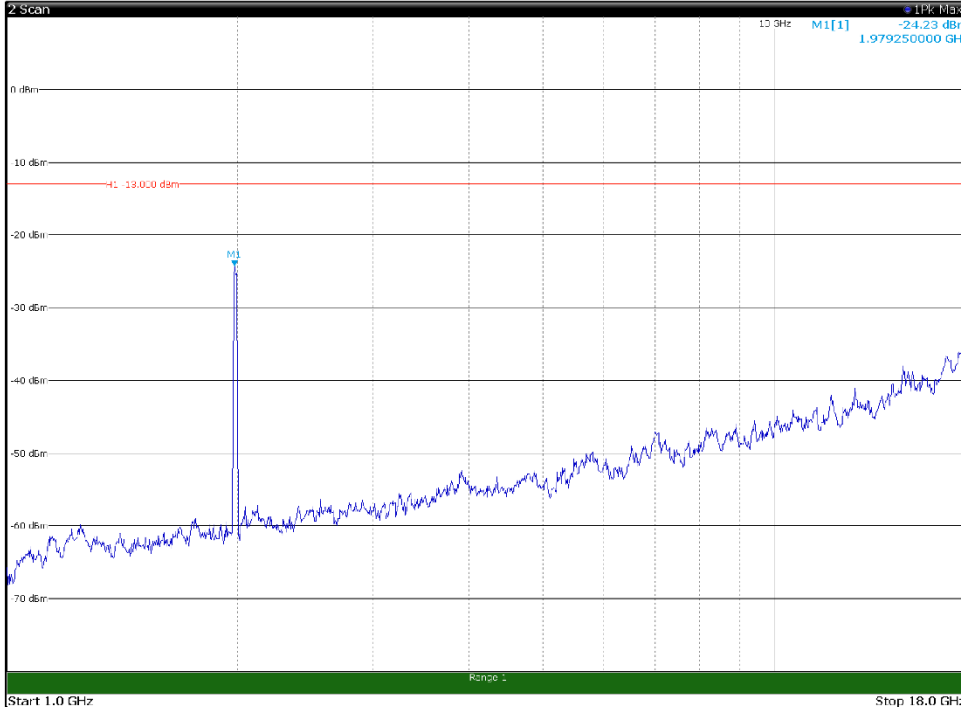


Channel: TOP, Modulation: 256QAM,  
BW=20MHz, Range: 30MHz - 1GHz, Polarization: Vertical

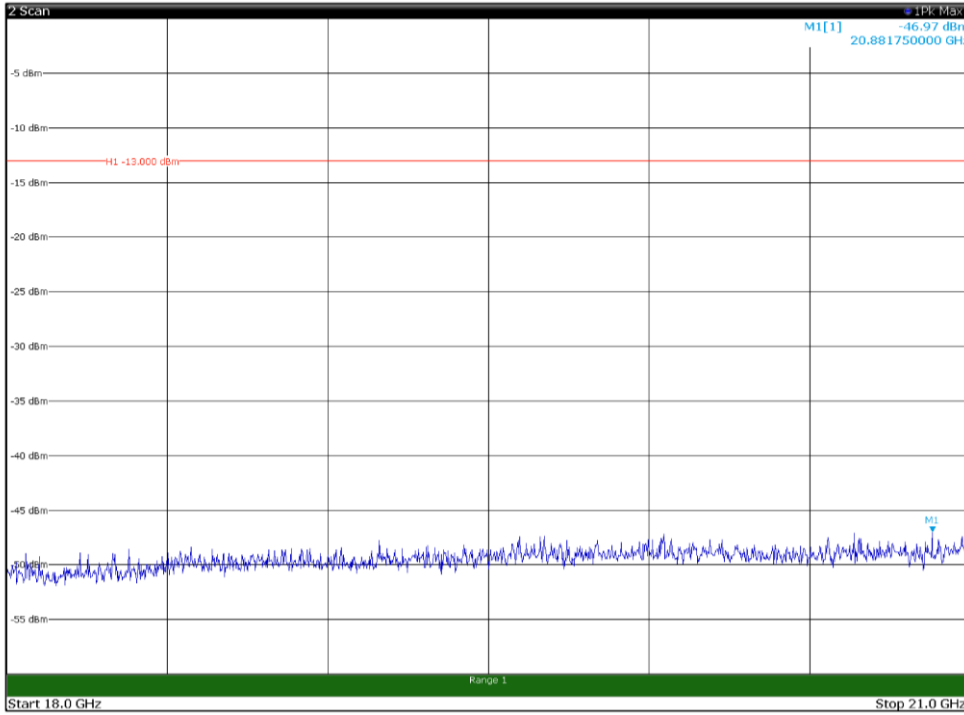




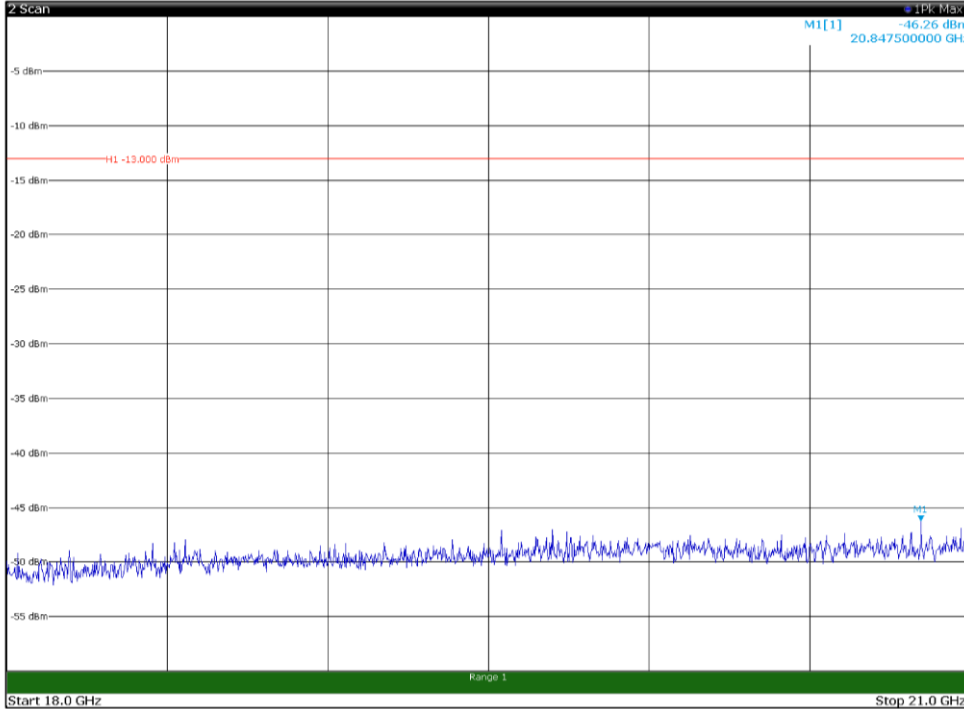
Channel: TOP, Modulation: 256QAM,  
BW=20MHz, Range: 1GHz - 18GHz, Polarization: Horizontal



Channel: TOP, Modulation: 256QAM,  
BW=20MHz, Range: 1GHz - 18GHz, Polarization: Vertical



Channel: TOP, Modulation: 256QAM,  
BW=20MHz, Range: 18GHz - 21GHz, Polarization: Horizontal



Channel: TOP, Modulation: 256QAM,  
BW=20MHz, Range: 18GHz - 21GHz, Polarization: Vertical

### Clause 24.235 Frequency stability

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

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 §24.235 Frequency stability, continued

### Test data

**RF PORT 1**

Temperature = -30°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	305.86	mHz
BOTTOM	LTE 5 MHz	16QAM	-331.49	mHz
BOTTOM	LTE 5 MHz	64QAM	273.65	mHz
BOTTOM	LTE 5 MHz	256QAM	-284.63	mHz
MIDDLE	LTE 5 MHz	QPSK	-3.93	Hz
MIDDLE	LTE 5 MHz	16QAM	-97.77	mHz
MIDDLE	LTE 5 MHz	64QAM	-2.82	Hz
MIDDLE	LTE 5 MHz	256QAM	352.92	mHz
TOP	LTE 5 MHz	QPSK	473.15	mHz
TOP	LTE 5 MHz	16QAM	438.85	mHz
TOP	LTE 5 MHz	64QAM	-367.99	mHz
TOP	LTE 5 MHz	256QAM	-132.22	mHz
BOTTOM	LTE 10 MHz	QPSK	-231.10	mHz
BOTTOM	LTE 10 MHz	16QAM	-325.49	mHz
BOTTOM	LTE 10 MHz	64QAM	-252.70	mHz
BOTTOM	LTE 10 MHz	256QAM	205.05	mHz
MIDDLE	LTE 10 MHz	QPSK	1.81	Hz
MIDDLE	LTE 10 MHz	16QAM	-587.20	mHz
MIDDLE	LTE 10 MHz	64QAM	3.56	Hz
MIDDLE	LTE 10 MHz	256QAM	470.67	mHz
TOP	LTE 10 MHz	QPSK	196.07	mHz
TOP	LTE 10 MHz	16QAM	-242.95	mHz
TOP	LTE 10 MHz	64QAM	150.98	mHz
TOP	LTE 10 MHz	256QAM	-155.38	mHz
BOTTOM	LTE 15 MHz	QPSK	-50.43	mHz
BOTTOM	LTE 15 MHz	16QAM	-21.20	mHz
BOTTOM	LTE 15 MHz	64QAM	-143.35	mHz
BOTTOM	LTE 15 MHz	256QAM	188.85	mHz
MIDDLE	LTE 15 MHz	QPSK	114.38	mHz
MIDDLE	LTE 15 MHz	16QAM	1.25	Hz
MIDDLE	LTE 15 MHz	64QAM	908.48	mHz
MIDDLE	LTE 15 MHz	256QAM	70.63	mHz
TOP	LTE 15 MHz	QPSK	-1.08	Hz
TOP	LTE 15 MHz	16QAM	390.32	mHz
TOP	LTE 15 MHz	64QAM	-124.42	mHz
TOP	LTE 15 MHz	256QAM	-350.38	mHz
BOTTOM	LTE 20 MHz	QPSK	-356.42	mHz
BOTTOM	LTE 20 MHz	16QAM	358.25	mHz
BOTTOM	LTE 20 MHz	64QAM	-167.48	mHz
BOTTOM	LTE 20 MHz	256QAM	-119.08	mHz
MIDDLE	LTE 20 MHz	QPSK	-387.38	mHz
MIDDLE	LTE 20 MHz	16QAM	203.10	mHz
MIDDLE	LTE 20 MHz	64QAM	-32.05	mHz
MIDDLE	LTE 20 MHz	256QAM	-386.69	mHz
TOP	LTE 20 MHz	QPSK	-146.04	mHz
TOP	LTE 20 MHz	16QAM	280.56	mHz
TOP	LTE 20 MHz	64QAM	-250.19	mHz
TOP	LTE 20 MHz	256QAM	205.15	mHz

Temperature = -20°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-344.09	mHz
BOTTOM	LTE 5 MHz	16QAM	-76.45	mHz
BOTTOM	LTE 5 MHz	64QAM	98.83	mHz
BOTTOM	LTE 5 MHz	256QAM	-120.95	mHz
MIDDLE	LTE 5 MHz	QPSK	-226.81	mHz
MIDDLE	LTE 5 MHz	16QAM	-789.32	mHz
MIDDLE	LTE 5 MHz	64QAM	727.43	mHz
MIDDLE	LTE 5 MHz	256QAM	-105.77	mHz
TOP	LTE 5 MHz	QPSK	-208.86	mHz
TOP	LTE 5 MHz	16QAM	-147.63	mHz
TOP	LTE 5 MHz	64QAM	67.90	mHz
TOP	LTE 5 MHz	256QAM	-21.50	mHz
BOTTOM	LTE 10 MHz	QPSK	-66.42	mHz
BOTTOM	LTE 10 MHz	16QAM	-194.84	mHz
BOTTOM	LTE 10 MHz	64QAM	307.61	mHz
BOTTOM	LTE 10 MHz	256QAM	-172.72	mHz
MIDDLE	LTE 10 MHz	QPSK	339.54	mHz
MIDDLE	LTE 10 MHz	16QAM	-547.15	mHz
MIDDLE	LTE 10 MHz	64QAM	926.20	mHz
MIDDLE	LTE 10 MHz	256QAM	-936.34	mHz
TOP	LTE 10 MHz	QPSK	149.94	mHz
TOP	LTE 10 MHz	16QAM	-143.66	mHz
TOP	LTE 10 MHz	64QAM	493.79	mHz
TOP	LTE 10 MHz	256QAM	76.75	mHz
BOTTOM	LTE 15 MHz	QPSK	186.21	mHz
BOTTOM	LTE 15 MHz	16QAM	-237.25	mHz
BOTTOM	LTE 15 MHz	64QAM	265.84	mHz
BOTTOM	LTE 15 MHz	256QAM	-116.63	mHz
MIDDLE	LTE 15 MHz	QPSK	814.20	mHz
MIDDLE	LTE 15 MHz	16QAM	-238.64	mHz
MIDDLE	LTE 15 MHz	64QAM	-139.99	mHz
MIDDLE	LTE 15 MHz	256QAM	-636.44	mHz
TOP	LTE 15 MHz	QPSK	217.08	mHz
TOP	LTE 15 MHz	16QAM	76.57	mHz
TOP	LTE 15 MHz	64QAM	-1.67	Hz
TOP	LTE 15 MHz	256QAM	-371.57	mHz
BOTTOM	LTE 20 MHz	QPSK	-25.93	mHz
BOTTOM	LTE 20 MHz	16QAM	356.02	mHz
BOTTOM	LTE 20 MHz	64QAM	-264.25	mHz
BOTTOM	LTE 20 MHz	256QAM	-203.62	mHz
MIDDLE	LTE 20 MHz	QPSK	636.81	mHz
MIDDLE	LTE 20 MHz	16QAM	348.58	mHz
MIDDLE	LTE 20 MHz	64QAM	63.52	mHz
MIDDLE	LTE 20 MHz	256QAM	-77.35	mHz
TOP	LTE 20 MHz	QPSK	118.54	mHz
TOP	LTE 20 MHz	16QAM	241.68	mHz
TOP	LTE 20 MHz	64QAM	-264.28	mHz
TOP	LTE 20 MHz	256QAM	-361.99	mHz

Temperature = -10°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	287.44	mHz
BOTTOM	LTE 5 MHz	16QAM	439.35	mHz
BOTTOM	LTE 5 MHz	64QAM	-1.71	Hz
BOTTOM	LTE 5 MHz	256QAM	-183.27	mHz
MIDDLE	LTE 5 MHz	QPSK	-478.42	mHz
MIDDLE	LTE 5 MHz	16QAM	264.30	mHz
MIDDLE	LTE 5 MHz	64QAM	-747.23	mHz
MIDDLE	LTE 5 MHz	256QAM	-310.82	mHz
TOP	LTE 5 MHz	QPSK	-397.62	mHz
TOP	LTE 5 MHz	16QAM	227.17	mHz
TOP	LTE 5 MHz	64QAM	-105.66	mHz
TOP	LTE 5 MHz	256QAM	284.19	mHz
BOTTOM	LTE 10 MHz	QPSK	216.47	mHz
BOTTOM	LTE 10 MHz	16QAM	320.47	mHz
BOTTOM	LTE 10 MHz	64QAM	185.94	mHz
BOTTOM	LTE 10 MHz	256QAM	-320.81	mHz
MIDDLE	LTE 10 MHz	QPSK	336.27	mHz
MIDDLE	LTE 10 MHz	16QAM	300.39	mHz
MIDDLE	LTE 10 MHz	64QAM	-132.72	mHz
MIDDLE	LTE 10 MHz	256QAM	-475.72	mHz
TOP	LTE 10 MHz	QPSK	-86.33	mHz
TOP	LTE 10 MHz	16QAM	257.41	mHz
TOP	LTE 10 MHz	64QAM	-199.39	mHz
TOP	LTE 10 MHz	256QAM	-185.40	mHz
BOTTOM	LTE 15 MHz	QPSK	127.10	mHz
BOTTOM	LTE 15 MHz	16QAM	183.45	mHz
BOTTOM	LTE 15 MHz	64QAM	-345.83	mHz
BOTTOM	LTE 15 MHz	256QAM	-303.54	mHz
MIDDLE	LTE 15 MHz	QPSK	774.56	mHz
MIDDLE	LTE 15 MHz	16QAM	-482.51	mHz
MIDDLE	LTE 15 MHz	64QAM	74.95	mHz
MIDDLE	LTE 15 MHz	256QAM	1.88	Hz
TOP	LTE 15 MHz	QPSK	-316.25	mHz
TOP	LTE 15 MHz	16QAM	333.67	mHz
TOP	LTE 15 MHz	64QAM	-1.47	Hz
TOP	LTE 15 MHz	256QAM	461.63	mHz
BOTTOM	LTE 20 MHz	QPSK	361.74	mHz
BOTTOM	LTE 20 MHz	16QAM	154.97	mHz
BOTTOM	LTE 20 MHz	64QAM	1.05	Hz
BOTTOM	LTE 20 MHz	256QAM	-136.30	mHz
MIDDLE	LTE 20 MHz	QPSK	-74.09	mHz
MIDDLE	LTE 20 MHz	16QAM	43.67	mHz
MIDDLE	LTE 20 MHz	64QAM	-440.43	mHz
MIDDLE	LTE 20 MHz	256QAM	568.34	mHz
TOP	LTE 20 MHz	QPSK	-197.71	mHz
TOP	LTE 20 MHz	16QAM	176.06	mHz
TOP	LTE 20 MHz	64QAM	352.54	mHz
TOP	LTE 20 MHz	256QAM	83.39	mHz

Temperature = 0°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	184.31	mHz
BOTTOM	LTE 5 MHz	16QAM	68.38	mHz
BOTTOM	LTE 5 MHz	64QAM	-1.31	Hz
BOTTOM	LTE 5 MHz	256QAM	458.45	mHz
MIDDLE	LTE 5 MHz	QPSK	-275.91	mHz
MIDDLE	LTE 5 MHz	16QAM	-1.96	Hz
MIDDLE	LTE 5 MHz	64QAM	-1.59	Hz
MIDDLE	LTE 5 MHz	256QAM	-58.29	mHz
TOP	LTE 5 MHz	QPSK	91.47	mHz
TOP	LTE 5 MHz	16QAM	-326.73	mHz
TOP	LTE 5 MHz	64QAM	76.63	mHz
TOP	LTE 5 MHz	256QAM	308.05	mHz
BOTTOM	LTE 10 MHz	QPSK	-51.28	mHz
BOTTOM	LTE 10 MHz	16QAM	-398.66	mHz
BOTTOM	LTE 10 MHz	64QAM	-108.76	mHz
BOTTOM	LTE 10 MHz	256QAM	56.28	mHz
MIDDLE	LTE 10 MHz	QPSK	1.37	Hz
MIDDLE	LTE 10 MHz	16QAM	-46.30	mHz
MIDDLE	LTE 10 MHz	64QAM	714.68	mHz
MIDDLE	LTE 10 MHz	256QAM	219.86	mHz
TOP	LTE 10 MHz	QPSK	-241.38	mHz
TOP	LTE 10 MHz	16QAM	-160.30	mHz
TOP	LTE 10 MHz	64QAM	201.20	mHz
TOP	LTE 10 MHz	256QAM	185.33	mHz
BOTTOM	LTE 15 MHz	QPSK	440.71	mHz
BOTTOM	LTE 15 MHz	16QAM	284.79	mHz
BOTTOM	LTE 15 MHz	64QAM	1.21	Hz
BOTTOM	LTE 15 MHz	256QAM	329.43	mHz
MIDDLE	LTE 15 MHz	QPSK	-1.30	Hz
MIDDLE	LTE 15 MHz	16QAM	2.63	Hz
MIDDLE	LTE 15 MHz	64QAM	-2.82	Hz
MIDDLE	LTE 15 MHz	256QAM	87.68	mHz
TOP	LTE 15 MHz	QPSK	38.31	mHz
TOP	LTE 15 MHz	16QAM	78.03	mHz
TOP	LTE 15 MHz	64QAM	104.98	mHz
TOP	LTE 15 MHz	256QAM	436.15	mHz
BOTTOM	LTE 20 MHz	QPSK	-71.64	mHz
BOTTOM	LTE 20 MHz	16QAM	282.54	mHz
BOTTOM	LTE 20 MHz	64QAM	-272.40	mHz
BOTTOM	LTE 20 MHz	256QAM	-178.45	mHz
MIDDLE	LTE 20 MHz	QPSK	-928.09	mHz
MIDDLE	LTE 20 MHz	16QAM	-3.01	Hz
MIDDLE	LTE 20 MHz	64QAM	3.92	Hz
MIDDLE	LTE 20 MHz	256QAM	-143.73	mHz
TOP	LTE 20 MHz	QPSK	1.27	Hz
TOP	LTE 20 MHz	16QAM	-347.39	mHz
TOP	LTE 20 MHz	64QAM	246.36	mHz
TOP	LTE 20 MHz	256QAM	-138.68	mHz

Temperature = 10°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-1.10	Hz
BOTTOM	LTE 5 MHz	16QAM	308.69	mHz
BOTTOM	LTE 5 MHz	64QAM	211.09	mHz
BOTTOM	LTE 5 MHz	256QAM	463.42	mHz
MIDDLE	LTE 5 MHz	QPSK	-361.00	mHz
MIDDLE	LTE 5 MHz	16QAM	-263.36	mHz
MIDDLE	LTE 5 MHz	64QAM	369.38	mHz
MIDDLE	LTE 5 MHz	256QAM	461.16	mHz
TOP	LTE 5 MHz	QPSK	242.11	mHz
TOP	LTE 5 MHz	16QAM	-371.20	mHz
TOP	LTE 5 MHz	64QAM	1.54	Hz
TOP	LTE 5 MHz	256QAM	346.74	mHz
BOTTOM	LTE 10 MHz	QPSK	-215.22	mHz
BOTTOM	LTE 10 MHz	16QAM	1.08	Hz
BOTTOM	LTE 10 MHz	64QAM	484.00	mHz
BOTTOM	LTE 10 MHz	256QAM	382.14	mHz
MIDDLE	LTE 10 MHz	QPSK	-702.95	mHz
MIDDLE	LTE 10 MHz	16QAM	888.99	mHz
MIDDLE	LTE 10 MHz	64QAM	760.11	mHz
MIDDLE	LTE 10 MHz	256QAM	-140.57	mHz
TOP	LTE 10 MHz	QPSK	-122.91	mHz
TOP	LTE 10 MHz	16QAM	24.06	mHz
TOP	LTE 10 MHz	64QAM	-186.93	mHz
TOP	LTE 10 MHz	256QAM	41.18	mHz
BOTTOM	LTE 15 MHz	QPSK	87.20	mHz
BOTTOM	LTE 15 MHz	16QAM	-365.87	mHz
BOTTOM	LTE 15 MHz	64QAM	319.41	mHz
BOTTOM	LTE 15 MHz	256QAM	-215.55	mHz
MIDDLE	LTE 15 MHz	QPSK	-29.98	mHz
MIDDLE	LTE 15 MHz	16QAM	-987.16	mHz
MIDDLE	LTE 15 MHz	64QAM	-707.97	mHz
MIDDLE	LTE 15 MHz	256QAM	189.67	mHz
TOP	LTE 15 MHz	QPSK	187.85	mHz
TOP	LTE 15 MHz	16QAM	76.20	mHz
TOP	LTE 15 MHz	64QAM	-265.25	mHz
TOP	LTE 15 MHz	256QAM	116.89	mHz
BOTTOM	LTE 20 MHz	QPSK	492.70	mHz
BOTTOM	LTE 20 MHz	16QAM	-167.47	mHz
BOTTOM	LTE 20 MHz	64QAM	285.30	mHz
BOTTOM	LTE 20 MHz	256QAM	-262.68	mHz
MIDDLE	LTE 20 MHz	QPSK	-226.36	mHz
MIDDLE	LTE 20 MHz	16QAM	208.65	mHz
MIDDLE	LTE 20 MHz	64QAM	-152.97	mHz
MIDDLE	LTE 20 MHz	256QAM	243.33	mHz
TOP	LTE 20 MHz	QPSK	-92.68	mHz
TOP	LTE 20 MHz	16QAM	-2.45	Hz
TOP	LTE 20 MHz	64QAM	-149.12	mHz
TOP	LTE 20 MHz	256QAM	-60.42	mHz



Temperature = 20°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	1.1956	Hz
BOTTOM	LTE 5 MHz	16QAM	345.36	mHz
BOTTOM	LTE 5 MHz	64QAM	922.83	mHz
BOTTOM	LTE 5 MHz	256QAM	639.99	mHz
MIDDLE	LTE 5 MHz	QPSK	1.6165	Hz
MIDDLE	LTE 5 MHz	16QAM	-1.52395	Hz
MIDDLE	LTE 5 MHz	64QAM	-1.113	Hz
MIDDLE	LTE 5 MHz	256QAM	-694.7	mHz
TOP	LTE 5 MHz	QPSK	460.6	mHz
TOP	LTE 5 MHz	16QAM	547.45	mHz
TOP	LTE 5 MHz	64QAM	504.19	mHz
TOP	LTE 5 MHz	256QAM	-662.9	mHz
BOTTOM	LTE 10 MHz	QPSK	-896.8	mHz
BOTTOM	LTE 10 MHz	16QAM	322.77	mHz
BOTTOM	LTE 10 MHz	64QAM	183.21	mHz
BOTTOM	LTE 10 MHz	256QAM	-621.6	mHz
MIDDLE	LTE 10 MHz	QPSK	677.46	mHz
MIDDLE	LTE 10 MHz	16QAM	1.2708	Hz
MIDDLE	LTE 10 MHz	64QAM	-714.7	mHz
MIDDLE	LTE 10 MHz	256QAM	-360.6	mHz
TOP	LTE 10 MHz	QPSK	501.08	mHz
TOP	LTE 10 MHz	16QAM	-68.72	mHz
TOP	LTE 10 MHz	64QAM	331.05	mHz
TOP	LTE 10 MHz	256QAM	673.31	mHz
BOTTOM	LTE 15 MHz	QPSK	-136.6	mHz
BOTTOM	LTE 15 MHz	16QAM	1.1347	Hz
BOTTOM	LTE 15 MHz	64QAM	-334.1	mHz
BOTTOM	LTE 15 MHz	256QAM	-2.872	Hz
MIDDLE	LTE 15 MHz	QPSK	1.1943	Hz
MIDDLE	LTE 15 MHz	16QAM	1.1887	Hz
MIDDLE	LTE 15 MHz	64QAM	377.63	mHz
MIDDLE	LTE 15 MHz	256QAM	-323	mHz
TOP	LTE 15 MHz	QPSK	-1.42	Hz
TOP	LTE 15 MHz	16QAM	-203.3	mHz
TOP	LTE 15 MHz	64QAM	1.7157	Hz
TOP	LTE 15 MHz	256QAM	-1.937	Hz
BOTTOM	LTE 20 MHz	QPSK	-1.474	Hz
BOTTOM	LTE 20 MHz	16QAM	1.0834	Hz
BOTTOM	LTE 20 MHz	64QAM	-70.33	mHz
BOTTOM	LTE 20 MHz	256QAM	-118.5	mHz
MIDDLE	LTE 20 MHz	QPSK	1.4952	Hz
MIDDLE	LTE 20 MHz	16QAM	3.3472	Hz
MIDDLE	LTE 20 MHz	64QAM	596.43	mHz
MIDDLE	LTE 20 MHz	256QAM	-912.5	mHz
TOP	LTE 20 MHz	QPSK	-1.602	Hz
TOP	LTE 20 MHz	16QAM	235.65	mHz
TOP	LTE 20 MHz	64QAM	-118.4	mHz
TOP	LTE 20 MHz	256QAM	-643.3	mHz

Temperature = 30°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-154.89	mHz
BOTTOM	LTE 5 MHz	16QAM	-120.67	mHz
BOTTOM	LTE 5 MHz	64QAM	353.06	mHz
BOTTOM	LTE 5 MHz	256QAM	352.70	mHz
MIDDLE	LTE 5 MHz	QPSK	-286.16	mHz
MIDDLE	LTE 5 MHz	16QAM	166.81	mHz
MIDDLE	LTE 5 MHz	64QAM	-321.22	mHz
MIDDLE	LTE 5 MHz	256QAM	-339.16	mHz
TOP	LTE 5 MHz	QPSK	1.30	Hz
TOP	LTE 5 MHz	16QAM	-318.65	mHz
TOP	LTE 5 MHz	64QAM	-85.78	mHz
TOP	LTE 5 MHz	256QAM	-362.70	mHz
BOTTOM	LTE 10 MHz	QPSK	161.00	mHz
BOTTOM	LTE 10 MHz	16QAM	-290.35	mHz
BOTTOM	LTE 10 MHz	64QAM	346.22	mHz
BOTTOM	LTE 10 MHz	256QAM	74.55	mHz
MIDDLE	LTE 10 MHz	QPSK	-186.00	mHz
MIDDLE	LTE 10 MHz	16QAM	-1.52	Hz
MIDDLE	LTE 10 MHz	64QAM	76.69	mHz
MIDDLE	LTE 10 MHz	256QAM	156.87	mHz
TOP	LTE 10 MHz	QPSK	411.75	mHz
TOP	LTE 10 MHz	16QAM	287.16	mHz
TOP	LTE 10 MHz	64QAM	184.56	mHz
TOP	LTE 10 MHz	256QAM	206.79	mHz
BOTTOM	LTE 15 MHz	QPSK	238.08	mHz
BOTTOM	LTE 15 MHz	16QAM	154.80	mHz
BOTTOM	LTE 15 MHz	64QAM	356.60	mHz
BOTTOM	LTE 15 MHz	256QAM	-1.65	Hz
MIDDLE	LTE 15 MHz	QPSK	-215.45	mHz
MIDDLE	LTE 15 MHz	16QAM	178.81	mHz
MIDDLE	LTE 15 MHz	64QAM	-41.91	mHz
MIDDLE	LTE 15 MHz	256QAM	-397.11	mHz
TOP	LTE 15 MHz	QPSK	-370.54	mHz
TOP	LTE 15 MHz	16QAM	403.05	mHz
TOP	LTE 15 MHz	64QAM	-245.93	mHz
TOP	LTE 15 MHz	256QAM	490.19	mHz
BOTTOM	LTE 20 MHz	QPSK	85.42	mHz
BOTTOM	LTE 20 MHz	16QAM	116.23	mHz
BOTTOM	LTE 20 MHz	64QAM	-228.22	mHz
BOTTOM	LTE 20 MHz	256QAM	-25.06	mHz
MIDDLE	LTE 20 MHz	QPSK	315.43	mHz
MIDDLE	LTE 20 MHz	16QAM	421.58	mHz
MIDDLE	LTE 20 MHz	64QAM	124.64	mHz
MIDDLE	LTE 20 MHz	256QAM	-395.21	mHz
TOP	LTE 20 MHz	QPSK	-364.70	mHz
TOP	LTE 20 MHz	16QAM	451.04	mHz
TOP	LTE 20 MHz	64QAM	437.84	mHz
TOP	LTE 20 MHz	256QAM	-361.99	mHz

Temperature = 40°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	205.79	mHz
BOTTOM	LTE 5 MHz	16QAM	62.74	mHz
BOTTOM	LTE 5 MHz	64QAM	137.91	mHz
BOTTOM	LTE 5 MHz	256QAM	492.46	mHz
MIDDLE	LTE 5 MHz	QPSK	453.30	mHz
MIDDLE	LTE 5 MHz	16QAM	-231.92	mHz
MIDDLE	LTE 5 MHz	64QAM	-1.03	Hz
MIDDLE	LTE 5 MHz	256QAM	352.90	mHz
TOP	LTE 5 MHz	QPSK	339.97	mHz
TOP	LTE 5 MHz	16QAM	444.20	mHz
TOP	LTE 5 MHz	64QAM	-47.09	mHz
TOP	LTE 5 MHz	256QAM	-148.58	mHz
BOTTOM	LTE 10 MHz	QPSK	1.94	Hz
BOTTOM	LTE 10 MHz	16QAM	-46.41	mHz
BOTTOM	LTE 10 MHz	64QAM	320.80	mHz
BOTTOM	LTE 10 MHz	256QAM	219.52	mHz
MIDDLE	LTE 10 MHz	QPSK	-578.75	mHz
MIDDLE	LTE 10 MHz	16QAM	-444.89	mHz
MIDDLE	LTE 10 MHz	64QAM	169.51	mHz
MIDDLE	LTE 10 MHz	256QAM	376.48	mHz
TOP	LTE 10 MHz	QPSK	345.63	mHz
TOP	LTE 10 MHz	16QAM	-1.69	Hz
TOP	LTE 10 MHz	64QAM	174.20	mHz
TOP	LTE 10 MHz	256QAM	433.70	mHz
BOTTOM	LTE 15 MHz	QPSK	-152.62	mHz
BOTTOM	LTE 15 MHz	16QAM	207.28	mHz
BOTTOM	LTE 15 MHz	64QAM	-1.14	Hz
BOTTOM	LTE 15 MHz	256QAM	362.87	mHz
MIDDLE	LTE 15 MHz	QPSK	-938.93	mHz
MIDDLE	LTE 15 MHz	16QAM	-545.97	mHz
MIDDLE	LTE 15 MHz	64QAM	-945.62	mHz
MIDDLE	LTE 15 MHz	256QAM	-366.39	mHz
TOP	LTE 15 MHz	QPSK	178.41	mHz
TOP	LTE 15 MHz	16QAM	80.40	mHz
TOP	LTE 15 MHz	64QAM	1.04	Hz
TOP	LTE 15 MHz	256QAM	-231.11	mHz
BOTTOM	LTE 20 MHz	QPSK	-246.05	mHz
BOTTOM	LTE 20 MHz	16QAM	342.74	mHz
BOTTOM	LTE 20 MHz	64QAM	367.55	mHz
BOTTOM	LTE 20 MHz	256QAM	100.64	mHz
MIDDLE	LTE 20 MHz	QPSK	-1.37	Hz
MIDDLE	LTE 20 MHz	16QAM	-345.08	mHz
MIDDLE	LTE 20 MHz	64QAM	364.54	mHz
MIDDLE	LTE 20 MHz	256QAM	-61.75	mHz
TOP	LTE 20 MHz	QPSK	448.30	mHz
TOP	LTE 20 MHz	16QAM	-175.37	mHz
TOP	LTE 20 MHz	64QAM	-164.87	mHz
TOP	LTE 20 MHz	256QAM	69.21	mHz

Temperature = 50°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	431.26	mHz
BOTTOM	LTE 5 MHz	16QAM	-120.76	mHz
BOTTOM	LTE 5 MHz	64QAM	220.23	mHz
BOTTOM	LTE 5 MHz	256QAM	428.87	mHz
MIDDLE	LTE 5 MHz	QPSK	-82.91	mHz
MIDDLE	LTE 5 MHz	16QAM	973.47	mHz
MIDDLE	LTE 5 MHz	64QAM	-252.18	mHz
MIDDLE	LTE 5 MHz	256QAM	-308.08	mHz
TOP	LTE 5 MHz	QPSK	450.48	mHz
TOP	LTE 5 MHz	16QAM	-186.50	mHz
TOP	LTE 5 MHz	64QAM	111.29	mHz
TOP	LTE 5 MHz	256QAM	290.36	mHz
BOTTOM	LTE 10 MHz	QPSK	396.36	mHz
BOTTOM	LTE 10 MHz	16QAM	-368.96	mHz
BOTTOM	LTE 10 MHz	64QAM	-342.01	mHz
BOTTOM	LTE 10 MHz	256QAM	-85.96	mHz
MIDDLE	LTE 10 MHz	QPSK	540.32	mHz
MIDDLE	LTE 10 MHz	16QAM	2.51	Hz
MIDDLE	LTE 10 MHz	64QAM	1.27	Hz
MIDDLE	LTE 10 MHz	256QAM	140.98	mHz
TOP	LTE 10 MHz	QPSK	-189.40	mHz
TOP	LTE 10 MHz	16QAM	-152.14	mHz
TOP	LTE 10 MHz	64QAM	296.62	mHz
TOP	LTE 10 MHz	256QAM	483.42	mHz
BOTTOM	LTE 15 MHz	QPSK	-172.32	mHz
BOTTOM	LTE 15 MHz	16QAM	-180.11	mHz
BOTTOM	LTE 15 MHz	64QAM	-203.76	mHz
BOTTOM	LTE 15 MHz	256QAM	-123.04	mHz
MIDDLE	LTE 15 MHz	QPSK	1.57	Hz
MIDDLE	LTE 15 MHz	16QAM	-152.54	mHz
MIDDLE	LTE 15 MHz	64QAM	1.14	Hz
MIDDLE	LTE 15 MHz	256QAM	1.75	Hz
TOP	LTE 15 MHz	QPSK	-296.79	mHz
TOP	LTE 15 MHz	16QAM	-180.20	mHz
TOP	LTE 15 MHz	64QAM	-250.57	mHz
TOP	LTE 15 MHz	256QAM	88.61	mHz
BOTTOM	LTE 20 MHz	QPSK	397.59	mHz
BOTTOM	LTE 20 MHz	16QAM	288.93	mHz
BOTTOM	LTE 20 MHz	64QAM	-357.90	mHz
BOTTOM	LTE 20 MHz	256QAM	111.59	mHz
MIDDLE	LTE 20 MHz	QPSK	584.41	mHz
MIDDLE	LTE 20 MHz	16QAM	467.98	mHz
MIDDLE	LTE 20 MHz	64QAM	-757.50	mHz
MIDDLE	LTE 20 MHz	256QAM	1.24	Hz
TOP	LTE 20 MHz	QPSK	1.64	Hz
TOP	LTE 20 MHz	16QAM	-132.53	mHz
TOP	LTE 20 MHz	64QAM	-393.56	mHz
TOP	LTE 20 MHz	256QAM	440.71	mHz

**RF PORT 2**

Temperature = -30°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-709.56	mHz
BOTTOM	LTE 5 MHz	16QAM	551.97	mHz
BOTTOM	LTE 5 MHz	64QAM	-430.88	mHz
BOTTOM	LTE 5 MHz	256QAM	526.52	mHz
MIDDLE	LTE 5 MHz	QPSK	806.46	mHz
MIDDLE	LTE 5 MHz	16QAM	-577.99	mHz
MIDDLE	LTE 5 MHz	64QAM	-346.99	mHz
MIDDLE	LTE 5 MHz	256QAM	0.17	Hz
TOP	LTE 5 MHz	QPSK	-1.96	Hz
TOP	LTE 5 MHz	16QAM	314.38	mHz
TOP	LTE 5 MHz	64QAM	-655.59	mHz
TOP	LTE 5 MHz	256QAM	-888.98	mHz
BOTTOM	LTE 10 MHz	QPSK	-369.60	mHz
BOTTOM	LTE 10 MHz	16QAM	-202.38	mHz
BOTTOM	LTE 10 MHz	64QAM	-61.65	mHz
BOTTOM	LTE 10 MHz	256QAM	-309.01	mHz
MIDDLE	LTE 10 MHz	QPSK	104.82	mHz
MIDDLE	LTE 10 MHz	16QAM	-776.00	mHz
MIDDLE	LTE 10 MHz	64QAM	899.52	mHz
MIDDLE	LTE 10 MHz	256QAM	1.56	Hz
TOP	LTE 10 MHz	QPSK	846.77	mHz
TOP	LTE 10 MHz	16QAM	-892.18	mHz
TOP	LTE 10 MHz	64QAM	-641.74	mHz
TOP	LTE 10 MHz	256QAM	396.31	mHz
BOTTOM	LTE 15 MHz	QPSK	377.37	mHz
BOTTOM	LTE 15 MHz	16QAM	-2.89	Hz
BOTTOM	LTE 15 MHz	64QAM	-712.77	mHz
BOTTOM	LTE 15 MHz	256QAM	-786.83	mHz
MIDDLE	LTE 15 MHz	QPSK	41.81	mHz
MIDDLE	LTE 15 MHz	16QAM	551.02	mHz
MIDDLE	LTE 15 MHz	64QAM	-573.90	mHz
MIDDLE	LTE 15 MHz	256QAM	533.48	mHz
TOP	LTE 15 MHz	QPSK	-411.36	mHz
TOP	LTE 15 MHz	16QAM	-647.74	mHz
TOP	LTE 15 MHz	64QAM	-575.86	mHz
TOP	LTE 15 MHz	256QAM	195.22	mHz
BOTTOM	LTE 20 MHz	QPSK	-509.95	mHz
BOTTOM	LTE 20 MHz	16QAM	-516.89	mHz
BOTTOM	LTE 20 MHz	64QAM	699.11	mHz
BOTTOM	LTE 20 MHz	256QAM	-236.84	mHz
MIDDLE	LTE 20 MHz	QPSK	857.51	mHz
MIDDLE	LTE 20 MHz	16QAM	-281.41	mHz
MIDDLE	LTE 20 MHz	64QAM	808.88	mHz
MIDDLE	LTE 20 MHz	256QAM	-178.66	mHz
TOP	LTE 20 MHz	QPSK	693.51	mHz
TOP	LTE 20 MHz	16QAM	-778.51	mHz
TOP	LTE 20 MHz	64QAM	264.15	mHz
TOP	LTE 20 MHz	256QAM	295.85	mHz

Temperature = -20°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-726.65	mHz
BOTTOM	LTE 5 MHz	16QAM	-675.73	mHz
BOTTOM	LTE 5 MHz	64QAM	134.31	mHz
BOTTOM	LTE 5 MHz	256QAM	-792.51	mHz
MIDDLE	LTE 5 MHz	QPSK	-94.31	mHz
MIDDLE	LTE 5 MHz	16QAM	-810.95	mHz
MIDDLE	LTE 5 MHz	64QAM	588.02	mHz
MIDDLE	LTE 5 MHz	256QAM	247.55	mHz
TOP	LTE 5 MHz	QPSK	-827.81	mHz
TOP	LTE 5 MHz	16QAM	591.81	mHz
TOP	LTE 5 MHz	64QAM	49.58	mHz
TOP	LTE 5 MHz	256QAM	855.06	mHz
BOTTOM	LTE 10 MHz	QPSK	-309.67	mHz
BOTTOM	LTE 10 MHz	16QAM	671.28	mHz
BOTTOM	LTE 10 MHz	64QAM	-193.53	mHz
BOTTOM	LTE 10 MHz	256QAM	627.11	mHz
MIDDLE	LTE 10 MHz	QPSK	0.40	Hz
MIDDLE	LTE 10 MHz	16QAM	429.59	mHz
MIDDLE	LTE 10 MHz	64QAM	22.06	mHz
MIDDLE	LTE 10 MHz	256QAM	92.15	mHz
TOP	LTE 10 MHz	QPSK	459.62	mHz
TOP	LTE 10 MHz	16QAM	-681.23	mHz
TOP	LTE 10 MHz	64QAM	425.02	mHz
TOP	LTE 10 MHz	256QAM	384.21	mHz
BOTTOM	LTE 15 MHz	QPSK	270.17	mHz
BOTTOM	LTE 15 MHz	16QAM	-592.56	mHz
BOTTOM	LTE 15 MHz	64QAM	-50.93	mHz
BOTTOM	LTE 15 MHz	256QAM	484.12	mHz
MIDDLE	LTE 15 MHz	QPSK	-89.40	mHz
MIDDLE	LTE 15 MHz	16QAM	-338.61	mHz
MIDDLE	LTE 15 MHz	64QAM	-470.67	mHz
MIDDLE	LTE 15 MHz	256QAM	243.03	mHz
TOP	LTE 15 MHz	QPSK	-844.36	mHz
TOP	LTE 15 MHz	16QAM	619.17	mHz
TOP	LTE 15 MHz	64QAM	-760.88	mHz
TOP	LTE 15 MHz	256QAM	-720.78	mHz
BOTTOM	LTE 20 MHz	QPSK	-341.05	mHz
BOTTOM	LTE 20 MHz	16QAM	-624.45	mHz
BOTTOM	LTE 20 MHz	64QAM	-329.71	mHz
BOTTOM	LTE 20 MHz	256QAM	340.29	mHz
MIDDLE	LTE 20 MHz	QPSK	415.06	mHz
MIDDLE	LTE 20 MHz	16QAM	-747.96	mHz
MIDDLE	LTE 20 MHz	64QAM	-1.08	Hz
MIDDLE	LTE 20 MHz	256QAM	-695.41	mHz
TOP	LTE 20 MHz	QPSK	-52.20	mHz
TOP	LTE 20 MHz	16QAM	-481.97	mHz
TOP	LTE 20 MHz	64QAM	787.17	mHz
TOP	LTE 20 MHz	256QAM	-867.14	mHz

Temperature = -10°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	442.05	mHz
BOTTOM	LTE 5 MHz	16QAM	-459.65	mHz
BOTTOM	LTE 5 MHz	64QAM	-810.54	mHz
BOTTOM	LTE 5 MHz	256QAM	-307.68	mHz
MIDDLE	LTE 5 MHz	QPSK	-880.95	mHz
MIDDLE	LTE 5 MHz	16QAM	-649.88	mHz
MIDDLE	LTE 5 MHz	64QAM	-436.69	mHz
MIDDLE	LTE 5 MHz	256QAM	-392.09	mHz
TOP	LTE 5 MHz	QPSK	-756.61	mHz
TOP	LTE 5 MHz	16QAM	-1.82	Hz
TOP	LTE 5 MHz	64QAM	-795.87	mHz
TOP	LTE 5 MHz	256QAM	-597.14	mHz
BOTTOM	LTE 10 MHz	QPSK	-362.56	mHz
BOTTOM	LTE 10 MHz	16QAM	453.44	mHz
BOTTOM	LTE 10 MHz	64QAM	-768.99	mHz
BOTTOM	LTE 10 MHz	256QAM	-1.74	Hz
MIDDLE	LTE 10 MHz	QPSK	-421.41	mHz
MIDDLE	LTE 10 MHz	16QAM	-129.56	mHz
MIDDLE	LTE 10 MHz	64QAM	208.44	mHz
MIDDLE	LTE 10 MHz	256QAM	-623.70	mHz
TOP	LTE 10 MHz	QPSK	134.26	mHz
TOP	LTE 10 MHz	16QAM	-574.24	mHz
TOP	LTE 10 MHz	64QAM	-784.80	mHz
TOP	LTE 10 MHz	256QAM	-554.33	mHz
BOTTOM	LTE 15 MHz	QPSK	639.78	mHz
BOTTOM	LTE 15 MHz	16QAM	-208.78	mHz
BOTTOM	LTE 15 MHz	64QAM	-820.30	mHz
BOTTOM	LTE 15 MHz	256QAM	322.95	mHz
MIDDLE	LTE 15 MHz	QPSK	647.40	mHz
MIDDLE	LTE 15 MHz	16QAM	440.27	mHz
MIDDLE	LTE 15 MHz	64QAM	-178.23	mHz
MIDDLE	LTE 15 MHz	256QAM	680.21	mHz
TOP	LTE 15 MHz	QPSK	-321.44	mHz
TOP	LTE 15 MHz	16QAM	1.50	Hz
TOP	LTE 15 MHz	64QAM	-264.03	mHz
TOP	LTE 15 MHz	256QAM	764.42	mHz
BOTTOM	LTE 20 MHz	QPSK	463.16	mHz
BOTTOM	LTE 20 MHz	16QAM	-331.41	mHz
BOTTOM	LTE 20 MHz	64QAM	-144.89	mHz
BOTTOM	LTE 20 MHz	256QAM	809.69	mHz
MIDDLE	LTE 20 MHz	QPSK	326.72	mHz
MIDDLE	LTE 20 MHz	16QAM	-596.60	mHz
MIDDLE	LTE 20 MHz	64QAM	358.02	mHz
MIDDLE	LTE 20 MHz	256QAM	-795.70	mHz
TOP	LTE 20 MHz	QPSK	-586.37	mHz
TOP	LTE 20 MHz	16QAM	616.49	mHz
TOP	LTE 20 MHz	64QAM	402.79	mHz
TOP	LTE 20 MHz	256QAM	-168.13	mHz

Temperature = 0°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	48.13	mHz
BOTTOM	LTE 5 MHz	16QAM	-650.79	mHz
BOTTOM	LTE 5 MHz	64QAM	-655.51	mHz
BOTTOM	LTE 5 MHz	256QAM	12.20	Hz
MIDDLE	LTE 5 MHz	QPSK	241.81	mHz
MIDDLE	LTE 5 MHz	16QAM	-444.06	mHz
MIDDLE	LTE 5 MHz	64QAM	-617.23	mHz
MIDDLE	LTE 5 MHz	256QAM	758.57	mHz
TOP	LTE 5 MHz	QPSK	433.15	mHz
TOP	LTE 5 MHz	16QAM	26.57	mHz
TOP	LTE 5 MHz	64QAM	528.77	mHz
TOP	LTE 5 MHz	256QAM	-772.02	mHz
BOTTOM	LTE 10 MHz	QPSK	118.73	mHz
BOTTOM	LTE 10 MHz	16QAM	-168.89	mHz
BOTTOM	LTE 10 MHz	64QAM	-235.48	mHz
BOTTOM	LTE 10 MHz	256QAM	-732.94	mHz
MIDDLE	LTE 10 MHz	QPSK	869.68	mHz
MIDDLE	LTE 10 MHz	16QAM	-379.94	mHz
MIDDLE	LTE 10 MHz	64QAM	505.40	mHz
MIDDLE	LTE 10 MHz	256QAM	1.47	Hz
TOP	LTE 10 MHz	QPSK	178.69	mHz
TOP	LTE 10 MHz	16QAM	713.68	mHz
TOP	LTE 10 MHz	64QAM	-678.26	mHz
TOP	LTE 10 MHz	256QAM	792.08	mHz
BOTTOM	LTE 15 MHz	QPSK	-304.51	mHz
BOTTOM	LTE 15 MHz	16QAM	698.41	mHz
BOTTOM	LTE 15 MHz	64QAM	291.57	mHz
BOTTOM	LTE 15 MHz	256QAM	105.42	mHz
MIDDLE	LTE 15 MHz	QPSK	601.87	mHz
MIDDLE	LTE 15 MHz	16QAM	-611.27	mHz
MIDDLE	LTE 15 MHz	64QAM	555.29	mHz
MIDDLE	LTE 15 MHz	256QAM	-324.40	mHz
TOP	LTE 15 MHz	QPSK	-827.59	mHz
TOP	LTE 15 MHz	16QAM	-770.63	mHz
TOP	LTE 15 MHz	64QAM	-289.64	mHz
TOP	LTE 15 MHz	256QAM	494.78	mHz
BOTTOM	LTE 20 MHz	QPSK	356.57	mHz
BOTTOM	LTE 20 MHz	16QAM	-1.60	Hz
BOTTOM	LTE 20 MHz	64QAM	-166.38	mHz
BOTTOM	LTE 20 MHz	256QAM	64.55	mHz
MIDDLE	LTE 20 MHz	QPSK	422.33	mHz
MIDDLE	LTE 20 MHz	16QAM	-411.13	mHz
MIDDLE	LTE 20 MHz	64QAM	-876.93	mHz
MIDDLE	LTE 20 MHz	256QAM	875.61	mHz
TOP	LTE 20 MHz	QPSK	-2.74	Hz
TOP	LTE 20 MHz	16QAM	-666.31	mHz
TOP	LTE 20 MHz	64QAM	701.41	mHz
TOP	LTE 20 MHz	256QAM	-813.95	mHz



Temperature = 10°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-660.66	mHz
BOTTOM	LTE 5 MHz	16QAM	322.41	mHz
BOTTOM	LTE 5 MHz	64QAM	-631.55	mHz
BOTTOM	LTE 5 MHz	256QAM	558.26	mHz
MIDDLE	LTE 5 MHz	QPSK	386.00	mHz
MIDDLE	LTE 5 MHz	16QAM	-762.99	mHz
MIDDLE	LTE 5 MHz	64QAM	-176.20	mHz
MIDDLE	LTE 5 MHz	256QAM	-680.38	mHz
TOP	LTE 5 MHz	QPSK	-668.09	mHz
TOP	LTE 5 MHz	16QAM	-210.97	mHz
TOP	LTE 5 MHz	64QAM	643.85	mHz
TOP	LTE 5 MHz	256QAM	-513.48	mHz
BOTTOM	LTE 10 MHz	QPSK	-853.69	mHz
BOTTOM	LTE 10 MHz	16QAM	129.73	mHz
BOTTOM	LTE 10 MHz	64QAM	-171.79	mHz
BOTTOM	LTE 10 MHz	256QAM	390.97	mHz
MIDDLE	LTE 10 MHz	QPSK	-289.05	mHz
MIDDLE	LTE 10 MHz	16QAM	-511.75	mHz
MIDDLE	LTE 10 MHz	64QAM	-366.96	mHz
MIDDLE	LTE 10 MHz	256QAM	-1.90	Hz
TOP	LTE 10 MHz	QPSK	-583.27	mHz
TOP	LTE 10 MHz	16QAM	-828.93	mHz
TOP	LTE 10 MHz	64QAM	-307.97	mHz
TOP	LTE 10 MHz	256QAM	-283.02	mHz
BOTTOM	LTE 15 MHz	QPSK	84.49	mHz
BOTTOM	LTE 15 MHz	16QAM	-197.63	mHz
BOTTOM	LTE 15 MHz	64QAM	726.93	mHz
BOTTOM	LTE 15 MHz	256QAM	202.32	mHz
MIDDLE	LTE 15 MHz	QPSK	2.20	Hz
MIDDLE	LTE 15 MHz	16QAM	753.32	mHz
MIDDLE	LTE 15 MHz	64QAM	662.69	mHz
MIDDLE	LTE 15 MHz	256QAM	-194.00	mHz
TOP	LTE 15 MHz	QPSK	614.52	mHz
TOP	LTE 15 MHz	16QAM	-512.61	mHz
TOP	LTE 15 MHz	64QAM	552.14	mHz
TOP	LTE 15 MHz	256QAM	-308.67	mHz
BOTTOM	LTE 20 MHz	QPSK	359.05	mHz
BOTTOM	LTE 20 MHz	16QAM	157.79	mHz
BOTTOM	LTE 20 MHz	64QAM	619.77	mHz
BOTTOM	LTE 20 MHz	256QAM	-69.34	mHz
MIDDLE	LTE 20 MHz	QPSK	-504.60	mHz
MIDDLE	LTE 20 MHz	16QAM	-2.38	Hz
MIDDLE	LTE 20 MHz	64QAM	594.73	mHz
MIDDLE	LTE 20 MHz	256QAM	359.98	mHz
TOP	LTE 20 MHz	QPSK	-442.77	mHz
TOP	LTE 20 MHz	16QAM	-358.81	mHz
TOP	LTE 20 MHz	64QAM	-56.24	mHz
TOP	LTE 20 MHz	256QAM	-394.39	mHz

Temperature = 20°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-822.22	mHz
BOTTOM	LTE 5 MHz	16QAM	-696.74	mHz
BOTTOM	LTE 5 MHz	64QAM	-420.28	mHz
BOTTOM	LTE 5 MHz	256QAM	862.68	mHz
MIDDLE	LTE 5 MHz	QPSK	701.75	mHz
MIDDLE	LTE 5 MHz	16QAM	840.07	mHz
MIDDLE	LTE 5 MHz	64QAM	491.19	mHz
MIDDLE	LTE 5 MHz	256QAM	463.44	mHz
TOP	LTE 5 MHz	QPSK	-283.64	mHz
TOP	LTE 5 MHz	16QAM	-548.57	mHz
TOP	LTE 5 MHz	64QAM	-851.14	mHz
TOP	LTE 5 MHz	256QAM	-2.24	Hz
BOTTOM	LTE 10 MHz	QPSK	737.73	mHz
BOTTOM	LTE 10 MHz	16QAM	-2.91	Hz
BOTTOM	LTE 10 MHz	64QAM	-538.08	mHz
BOTTOM	LTE 10 MHz	256QAM	-620.66	mHz
MIDDLE	LTE 10 MHz	QPSK	484.49	mHz
MIDDLE	LTE 10 MHz	16QAM	813.60	mHz
MIDDLE	LTE 10 MHz	64QAM	372.44	mHz
MIDDLE	LTE 10 MHz	256QAM	-757.11	mHz
TOP	LTE 10 MHz	QPSK	-649.39	mHz
TOP	LTE 10 MHz	16QAM	696.71	mHz
TOP	LTE 10 MHz	64QAM	-153.61	mHz
TOP	LTE 10 MHz	256QAM	277.81	mHz
BOTTOM	LTE 15 MHz	QPSK	644.09	mHz
BOTTOM	LTE 15 MHz	16QAM	-246.69	mHz
BOTTOM	LTE 15 MHz	64QAM	-116.67	mHz
BOTTOM	LTE 15 MHz	256QAM	632.60	mHz
MIDDLE	LTE 15 MHz	QPSK	436.50	mHz
MIDDLE	LTE 15 MHz	16QAM	-841.77	mHz
MIDDLE	LTE 15 MHz	64QAM	-455.25	mHz
MIDDLE	LTE 15 MHz	256QAM	-77.91	mHz
TOP	LTE 15 MHz	QPSK	316.88	mHz
TOP	LTE 15 MHz	16QAM	636.53	mHz
TOP	LTE 15 MHz	64QAM	-252.06	mHz
TOP	LTE 15 MHz	256QAM	-538.95	mHz
BOTTOM	LTE 20 MHz	QPSK	-696.30	mHz
BOTTOM	LTE 20 MHz	16QAM	-771.64	mHz
BOTTOM	LTE 20 MHz	64QAM	813.49	mHz
BOTTOM	LTE 20 MHz	256QAM	599.55	mHz
MIDDLE	LTE 20 MHz	QPSK	-820.45	mHz
MIDDLE	LTE 20 MHz	16QAM	-788.83	mHz
MIDDLE	LTE 20 MHz	64QAM	3.03	Hz
MIDDLE	LTE 20 MHz	256QAM	358.59	mHz
TOP	LTE 20 MHz	QPSK	-115.74	mHz
TOP	LTE 20 MHz	16QAM	-298.88	mHz
TOP	LTE 20 MHz	64QAM	-593.43	mHz
TOP	LTE 20 MHz	256QAM	-305.85	mHz

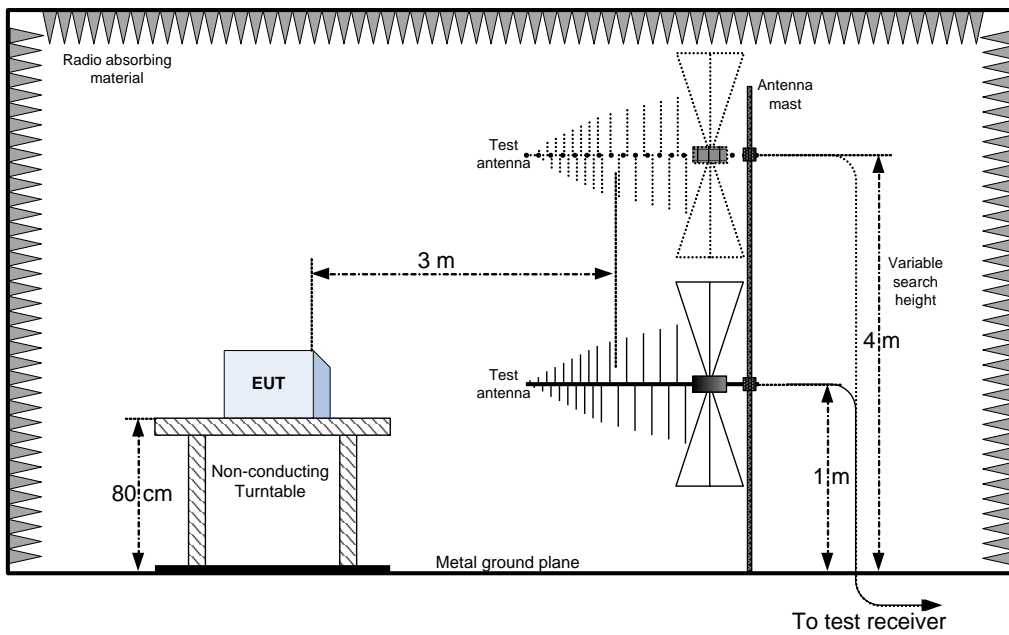
Temperature = 30°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-42.80	mHz
BOTTOM	LTE 5 MHz	16QAM	583.70	mHz
BOTTOM	LTE 5 MHz	64QAM	637.36	mHz
BOTTOM	LTE 5 MHz	256QAM	56.93	mHz
MIDDLE	LTE 5 MHz	QPSK	616.50	mHz
MIDDLE	LTE 5 MHz	16QAM	-547.93	mHz
MIDDLE	LTE 5 MHz	64QAM	1.10	Hz
MIDDLE	LTE 5 MHz	256QAM	232.57	mHz
TOP	LTE 5 MHz	QPSK	-817.51	mHz
TOP	LTE 5 MHz	16QAM	-899.03	mHz
TOP	LTE 5 MHz	64QAM	634.45	mHz
TOP	LTE 5 MHz	256QAM	52.79	mHz
BOTTOM	LTE 10 MHz	QPSK	308.29	mHz
BOTTOM	LTE 10 MHz	16QAM	-698.68	mHz
BOTTOM	LTE 10 MHz	64QAM	606.74	mHz
BOTTOM	LTE 10 MHz	256QAM	-737.86	mHz
MIDDLE	LTE 10 MHz	QPSK	895.04	mHz
MIDDLE	LTE 10 MHz	16QAM	-2.41	Hz
MIDDLE	LTE 10 MHz	64QAM	-274.17	mHz
MIDDLE	LTE 10 MHz	256QAM	-709.19	mHz
TOP	LTE 10 MHz	QPSK	-871.98	mHz
TOP	LTE 10 MHz	16QAM	188.72	mHz
TOP	LTE 10 MHz	64QAM	644.52	mHz
TOP	LTE 10 MHz	256QAM	-486.41	mHz
BOTTOM	LTE 15 MHz	QPSK	-377.50	mHz
BOTTOM	LTE 15 MHz	16QAM	513.55	mHz
BOTTOM	LTE 15 MHz	64QAM	-329.23	mHz
BOTTOM	LTE 15 MHz	256QAM	538.98	mHz
MIDDLE	LTE 15 MHz	QPSK	-826.67	mHz
MIDDLE	LTE 15 MHz	16QAM	96.13	mHz
MIDDLE	LTE 15 MHz	64QAM	-40.58	mHz
MIDDLE	LTE 15 MHz	256QAM	-681.72	mHz
TOP	LTE 15 MHz	QPSK	-834.33	mHz
TOP	LTE 15 MHz	16QAM	-551.39	mHz
TOP	LTE 15 MHz	64QAM	531.92	mHz
TOP	LTE 15 MHz	256QAM	-367.14	mHz
BOTTOM	LTE 20 MHz	QPSK	772.57	mHz
BOTTOM	LTE 20 MHz	16QAM	-4.00	Hz
BOTTOM	LTE 20 MHz	64QAM	-66.98	mHz
BOTTOM	LTE 20 MHz	256QAM	799.14	mHz
MIDDLE	LTE 20 MHz	QPSK	-83.99	mHz
MIDDLE	LTE 20 MHz	16QAM	134.96	mHz
MIDDLE	LTE 20 MHz	64QAM	-181.79	mHz
MIDDLE	LTE 20 MHz	256QAM	-206.97	mHz
TOP	LTE 20 MHz	QPSK	683.38	mHz
TOP	LTE 20 MHz	16QAM	-852.54	mHz
TOP	LTE 20 MHz	64QAM	-93.34	mHz
TOP	LTE 20 MHz	256QAM	-295.40	mHz

Temperature = 40°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	679.53	mHz
BOTTOM	LTE 5 MHz	16QAM	593.51	mHz
BOTTOM	LTE 5 MHz	64QAM	36.65	mHz
BOTTOM	LTE 5 MHz	256QAM	-55.55	mHz
MIDDLE	LTE 5 MHz	QPSK	593.71	mHz
MIDDLE	LTE 5 MHz	16QAM	-503.56	mHz
MIDDLE	LTE 5 MHz	64QAM	-602.10	mHz
MIDDLE	LTE 5 MHz	256QAM	-264.20	mHz
TOP	LTE 5 MHz	QPSK	315.88	mHz
TOP	LTE 5 MHz	16QAM	-85.00	mHz
TOP	LTE 5 MHz	64QAM	-1.60	Hz
TOP	LTE 5 MHz	256QAM	546.09	mHz
BOTTOM	LTE 10 MHz	QPSK	-869.27	mHz
BOTTOM	LTE 10 MHz	16QAM	702.70	mHz
BOTTOM	LTE 10 MHz	64QAM	803.47	mHz
BOTTOM	LTE 10 MHz	256QAM	-226.30	mHz
MIDDLE	LTE 10 MHz	QPSK	211.29	mHz
MIDDLE	LTE 10 MHz	16QAM	-852.82	mHz
MIDDLE	LTE 10 MHz	64QAM	-395.11	mHz
MIDDLE	LTE 10 MHz	256QAM	441.43	mHz
TOP	LTE 10 MHz	QPSK	-64.04	mHz
TOP	LTE 10 MHz	16QAM	139.08	mHz
TOP	LTE 10 MHz	64QAM	91.66	mHz
TOP	LTE 10 MHz	256QAM	131.90	mHz
BOTTOM	LTE 15 MHz	QPSK	-775.44	mHz
BOTTOM	LTE 15 MHz	16QAM	1.95	Hz
BOTTOM	LTE 15 MHz	64QAM	-728.05	mHz
BOTTOM	LTE 15 MHz	256QAM	643.99	mHz
MIDDLE	LTE 15 MHz	QPSK	-488.50	mHz
MIDDLE	LTE 15 MHz	16QAM	48.51	mHz
MIDDLE	LTE 15 MHz	64QAM	200.62	mHz
MIDDLE	LTE 15 MHz	256QAM	-612.46	mHz
TOP	LTE 15 MHz	QPSK	-266.40	mHz
TOP	LTE 15 MHz	16QAM	157.97	mHz
TOP	LTE 15 MHz	64QAM	277.39	mHz
TOP	LTE 15 MHz	256QAM	208.06	mHz
BOTTOM	LTE 20 MHz	QPSK	-770.32	mHz
BOTTOM	LTE 20 MHz	16QAM	-830.21	mHz
BOTTOM	LTE 20 MHz	64QAM	-385.29	mHz
BOTTOM	LTE 20 MHz	256QAM	50.76	mHz
MIDDLE	LTE 20 MHz	QPSK	-0.07	Hz
MIDDLE	LTE 20 MHz	16QAM	-786.34	mHz
MIDDLE	LTE 20 MHz	64QAM	-867.35	mHz
MIDDLE	LTE 20 MHz	256QAM	-602.29	mHz
TOP	LTE 20 MHz	QPSK	436.95	mHz
TOP	LTE 20 MHz	16QAM	833.40	mHz
TOP	LTE 20 MHz	64QAM	775.91	mHz
TOP	LTE 20 MHz	256QAM	602.29	mHz

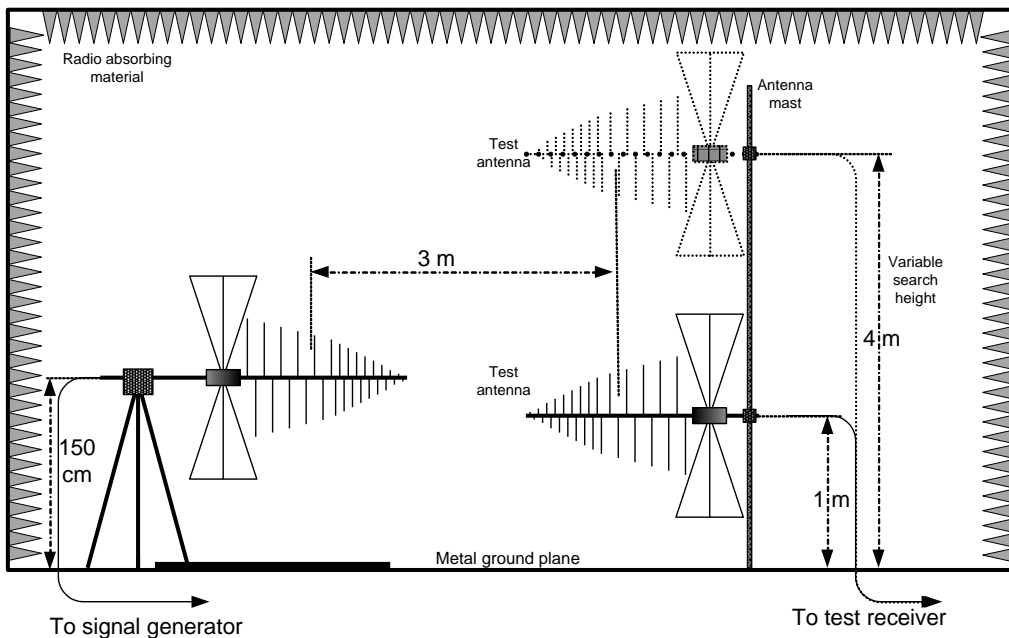
Temperature = 50°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-30.72	mHz
BOTTOM	LTE 5 MHz	16QAM	-477.54	mHz
BOTTOM	LTE 5 MHz	64QAM	-640.34	mHz
BOTTOM	LTE 5 MHz	256QAM	843.05	mHz
MIDDLE	LTE 5 MHz	QPSK	-44.12	mHz
MIDDLE	LTE 5 MHz	16QAM	428.30	mHz
MIDDLE	LTE 5 MHz	64QAM	317.64	mHz
MIDDLE	LTE 5 MHz	256QAM	-719.48	mHz
TOP	LTE 5 MHz	QPSK	1.13	Hz
TOP	LTE 5 MHz	16QAM	390.47	mHz
TOP	LTE 5 MHz	64QAM	-858.99	mHz
TOP	LTE 5 MHz	256QAM	223.10	mHz
BOTTOM	LTE 10 MHz	QPSK	-76.81	mHz
BOTTOM	LTE 10 MHz	16QAM	-829.77	mHz
BOTTOM	LTE 10 MHz	64QAM	-758.24	mHz
BOTTOM	LTE 10 MHz	256QAM	-833.09	mHz
MIDDLE	LTE 10 MHz	QPSK	-806.50	mHz
MIDDLE	LTE 10 MHz	16QAM	-695.20	mHz
MIDDLE	LTE 10 MHz	64QAM	527.07	mHz
MIDDLE	LTE 10 MHz	256QAM	2.14	Hz
TOP	LTE 10 MHz	QPSK	120.79	mHz
TOP	LTE 10 MHz	16QAM	715.59	mHz
TOP	LTE 10 MHz	64QAM	-150.92	mHz
TOP	LTE 10 MHz	256QAM	591.29	mHz
BOTTOM	LTE 15 MHz	QPSK	-334.97	mHz
BOTTOM	LTE 15 MHz	16QAM	-865.98	mHz
BOTTOM	LTE 15 MHz	64QAM	185.86	mHz
BOTTOM	LTE 15 MHz	256QAM	866.13	mHz
MIDDLE	LTE 15 MHz	QPSK	-213.78	mHz
MIDDLE	LTE 15 MHz	16QAM	4.31	Hz
MIDDLE	LTE 15 MHz	64QAM	475.49	mHz
MIDDLE	LTE 15 MHz	256QAM	-122.14	mHz
TOP	LTE 15 MHz	QPSK	-138.49	mHz
TOP	LTE 15 MHz	16QAM	66.16	mHz
TOP	LTE 15 MHz	64QAM	551.01	mHz
TOP	LTE 15 MHz	256QAM	-590.61	mHz
BOTTOM	LTE 20 MHz	QPSK	-329.95	mHz
BOTTOM	LTE 20 MHz	16QAM	433.05	mHz
BOTTOM	LTE 20 MHz	64QAM	126.97	mHz
BOTTOM	LTE 20 MHz	256QAM	564.54	mHz
MIDDLE	LTE 20 MHz	QPSK	-497.59	mHz
MIDDLE	LTE 20 MHz	16QAM	562.54	mHz
MIDDLE	LTE 20 MHz	64QAM	322.24	mHz
MIDDLE	LTE 20 MHz	256QAM	816.24	mHz
TOP	LTE 20 MHz	QPSK	-505.26	mHz
TOP	LTE 20 MHz	16QAM	-194.33	mHz
TOP	LTE 20 MHz	64QAM	1.46	Hz
TOP	LTE 20 MHz	256QAM	-399.60	mHz

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

### Radiated emissions set-up



### Substitution method set-up



## Appendix C: EUT Photos

### Photo Set up



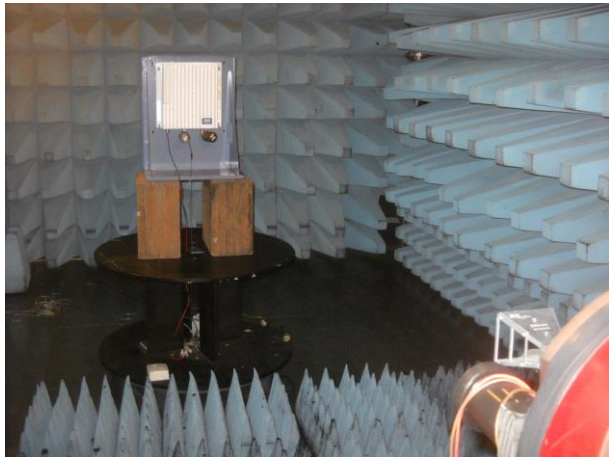
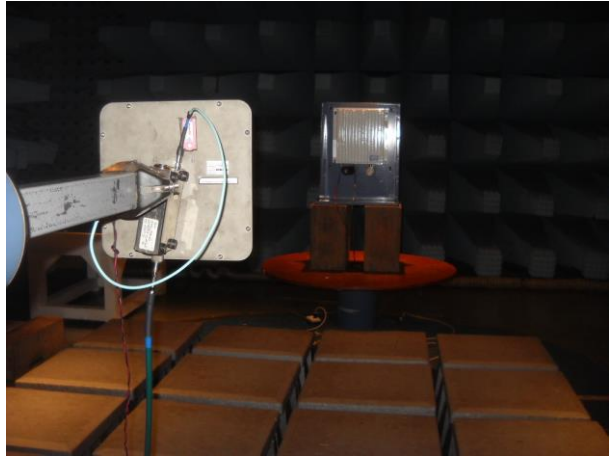




Photo EUT





END OF TEST REPORT