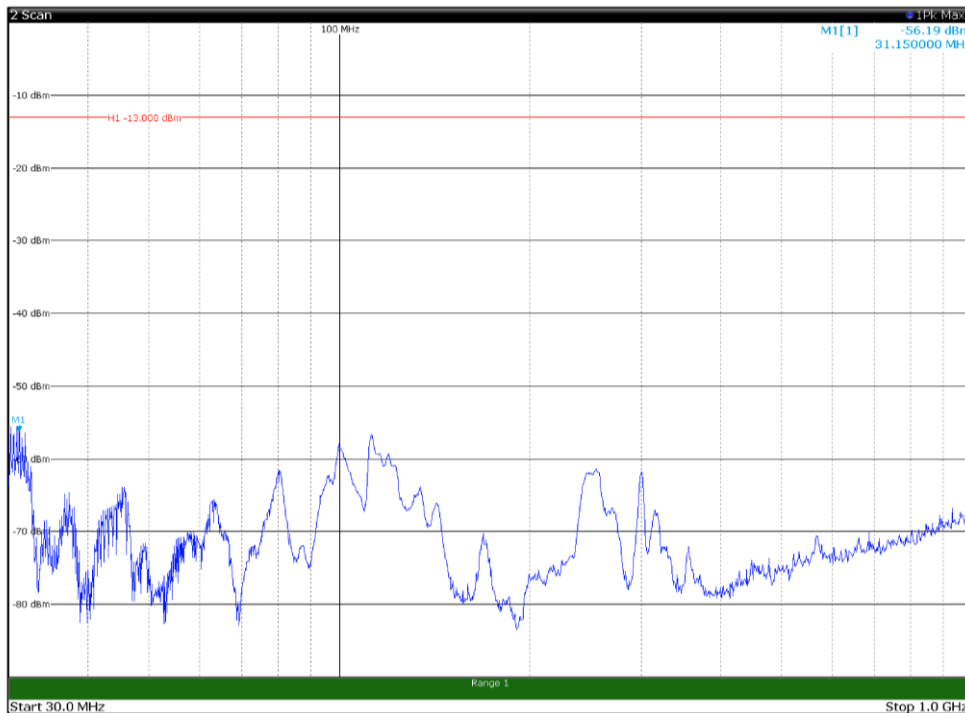
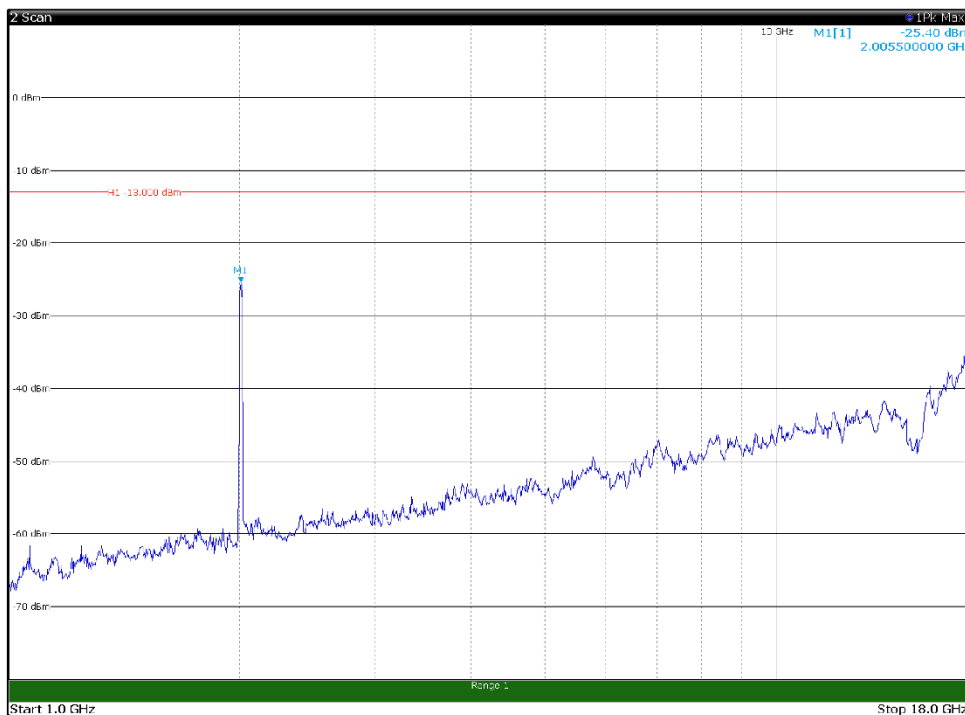
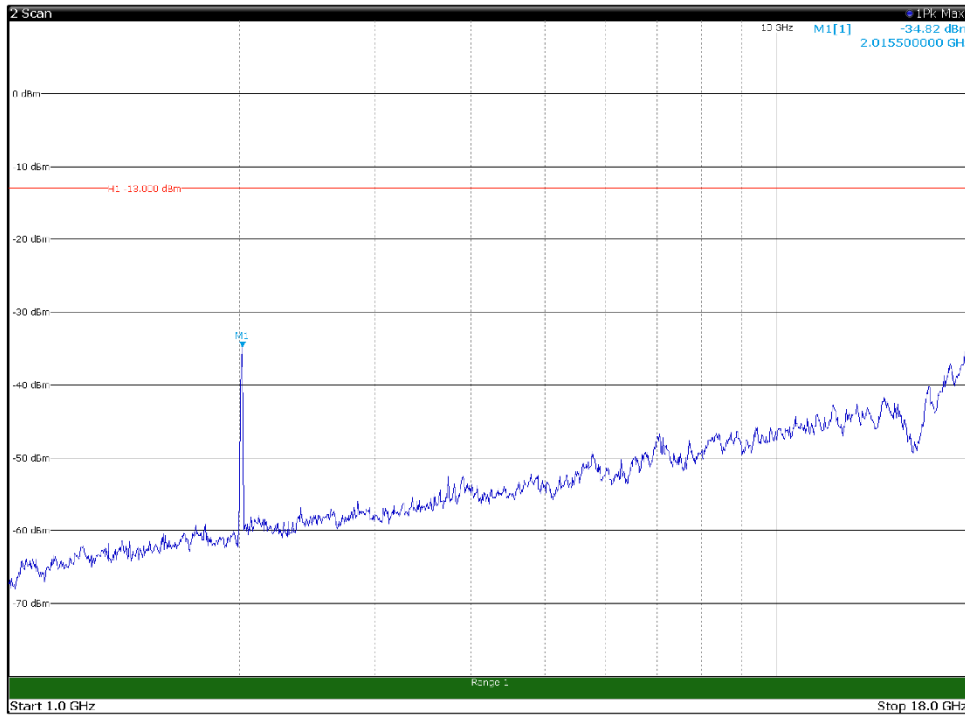
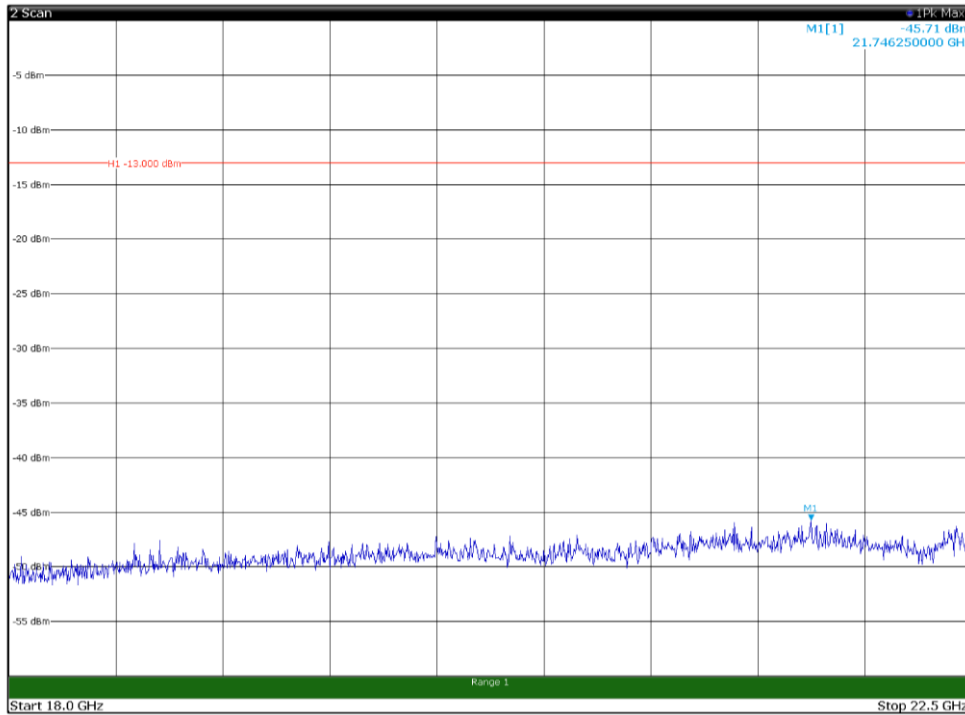


Channel: MIDDLE, Modulation: 256QAM,
BW=20MHz, Range: 30MHz - 1GHz, Polarization: Horizontal

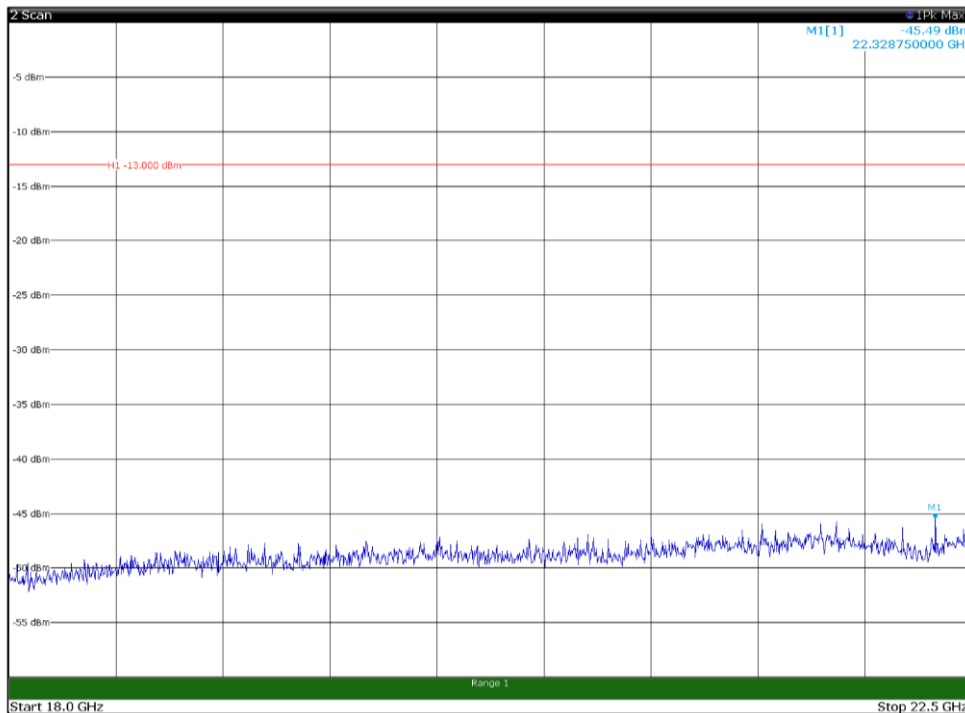


Channel: MIDDLE, Modulation: 256QAM,
BW=20MHz, Range: 30MHz - 1GHz, Polarization: Vertical

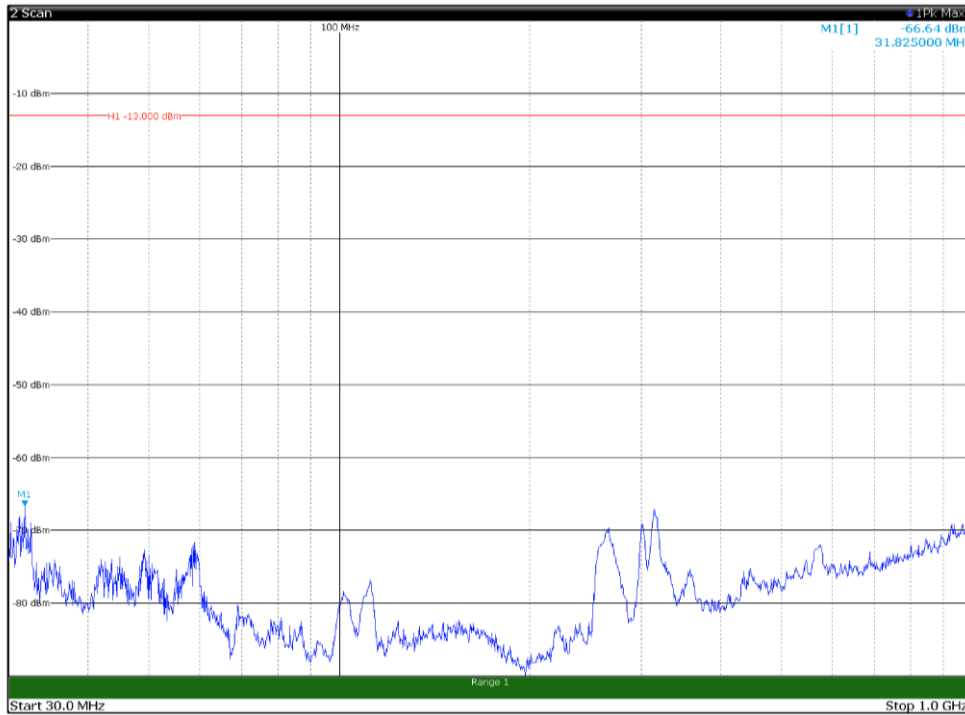




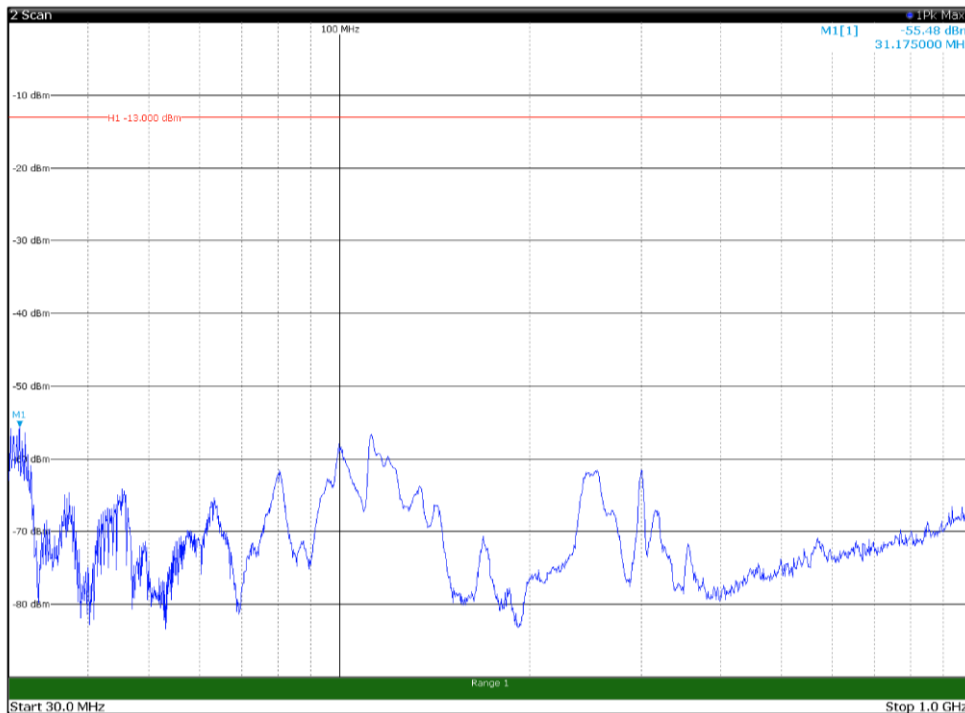
Channel: MIDDLE, Modulation: 256QAM,
BW=20MHz, Range: 18GHz - 22.5GHz, Polarization: Horizontal



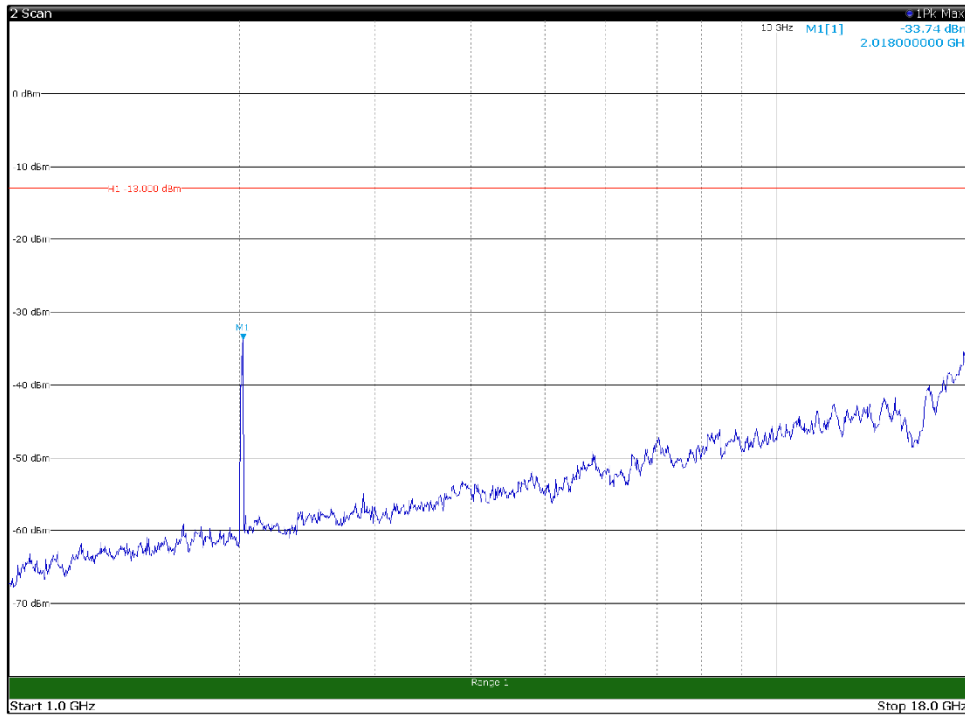
Channel: MIDDLE, Modulation: 256QAM,
BW=20MHz, Range: 18GHz - 22.5GHz, Polarization: Vertical



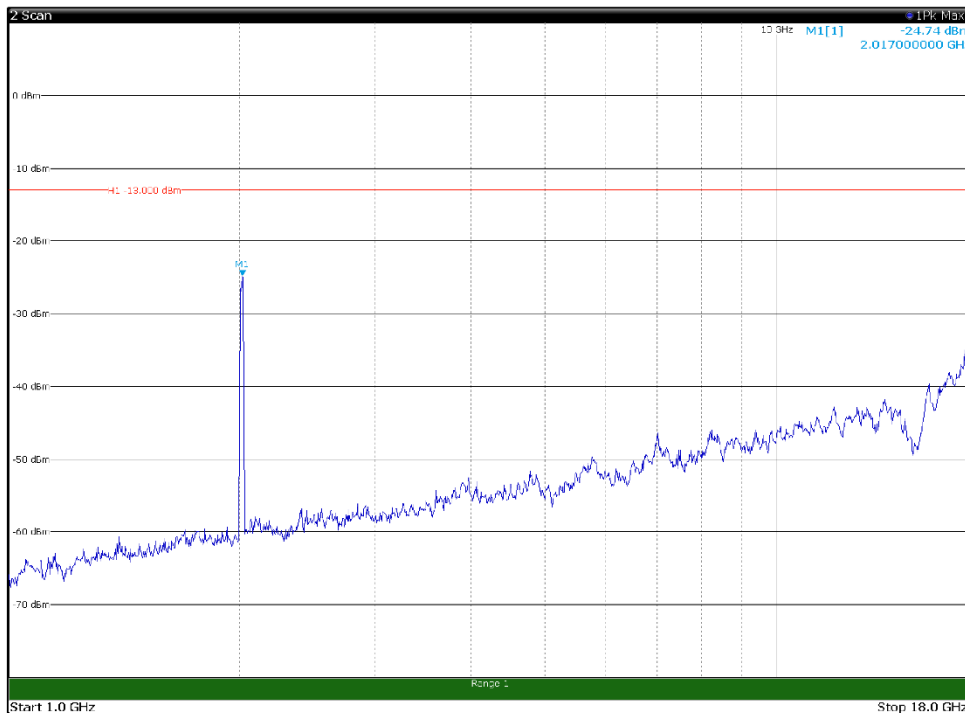
Channel: TOP, Modulation: 256QAM,
BW=20MHz, Range: 30MHz - 1GHz, Polarization: Horizontal



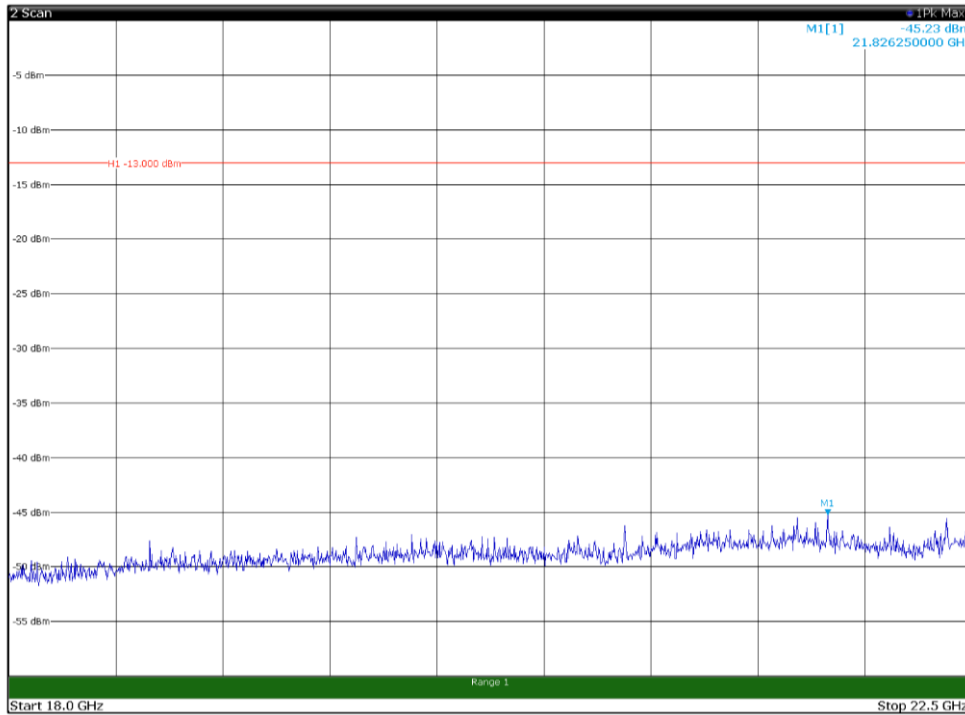
Channel: TOP, Modulation: 256QAM,
BW=20MHz, Range: 30MHz - 1GHz, Polarization: Vertical



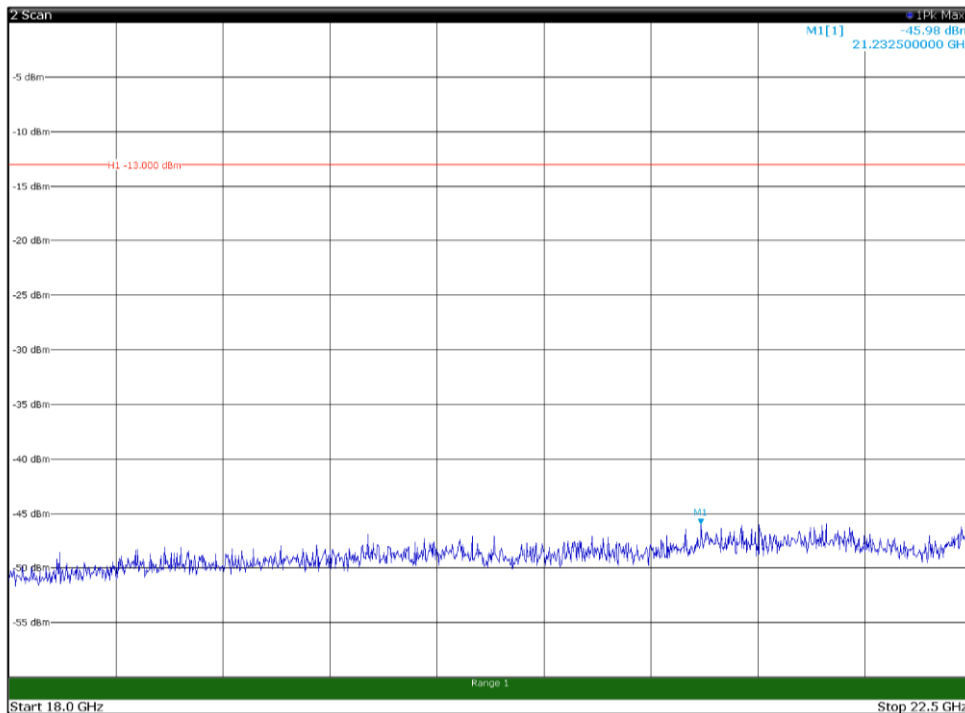
Channel: TOP, Modulation: 256QAM,
BW=20MHz, Range: 1GHz - 18GHz, Polarization: Horizontal



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



Channel: TOP, Modulation: 256QAM,
BW=20MHz, Range: 18GHz - 22.5GHz, Polarization: Horizontal



Channel: TOP, Modulation: 256QAM,
BW=20MHz, Range: 18GHz - 22.5GHz, Polarization: Vertical

Clause 27.54 Frequency stability

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

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 27.54 Frequency stability, continued

Test data

RF PORT 1

Temperature = -30°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	89.27	mHz
BOTTOM	LTE 5 MHz	16QAM	493.02	mHz
BOTTOM	LTE 5 MHz	64QAM	209.08	mHz
BOTTOM	LTE 5 MHz	256QAM	264.52	mHz
MIDDLE	LTE 5 MHz	QPSK	-1.92	Hz
MIDDLE	LTE 5 MHz	16QAM	-1.37	Hz
MIDDLE	LTE 5 MHz	64QAM	-3.98	Hz
MIDDLE	LTE 5 MHz	256QAM	382.71	mHz
TOP	LTE 5 MHz	QPSK	303.31	mHz
TOP	LTE 5 MHz	16QAM	-346.13	mHz
TOP	LTE 5 MHz	64QAM	279.04	mHz
TOP	LTE 5 MHz	256QAM	381.50	mHz
BOTTOM	LTE 10 MHz	QPSK	339.97	mHz
BOTTOM	LTE 10 MHz	16QAM	20.24	mHz
BOTTOM	LTE 10 MHz	64QAM	-144.97	mHz
BOTTOM	LTE 10 MHz	256QAM	97.81	mHz
MIDDLE	LTE 10 MHz	QPSK	-2.13	Hz
MIDDLE	LTE 10 MHz	16QAM	-1.86	Hz
MIDDLE	LTE 10 MHz	64QAM	-2.52	mHz
MIDDLE	LTE 10 MHz	256QAM	1.83	Hz
TOP	LTE 10 MHz	QPSK	364.99	mHz
TOP	LTE 10 MHz	16QAM	213.48	mHz
TOP	LTE 10 MHz	64QAM	-398.13	mHz
TOP	LTE 10 MHz	256QAM	-84.44	mHz
BOTTOM	LTE 15 MHz	QPSK	-373.20	mHz
BOTTOM	LTE 15 MHz	16QAM	125.02	mHz
BOTTOM	LTE 15 MHz	64QAM	429.57	mHz
BOTTOM	LTE 15 MHz	256QAM	194.87	mHz
MIDDLE	LTE 15 MHz	QPSK	-1.80	Hz
MIDDLE	LTE 15 MHz	16QAM	2.22	Hz
MIDDLE	LTE 15 MHz	64QAM	-1.40	Hz
MIDDLE	LTE 15 MHz	256QAM	-379.23	mHz
TOP	LTE 15 MHz	QPSK	-249.26	mHz
TOP	LTE 15 MHz	16QAM	2.76	Hz
TOP	LTE 15 MHz	64QAM	-317.74	mHz
TOP	LTE 15 MHz	256QAM	1.56	Hz
BOTTOM	LTE 20 MHz	QPSK	-195.55	mHz
BOTTOM	LTE 20 MHz	16QAM	76.10	mHz
BOTTOM	LTE 20 MHz	64QAM	-88.45	mHz
BOTTOM	LTE 20 MHz	256QAM	-153.81	mHz
MIDDLE	LTE 20 MHz	QPSK	-1.75	Hz
MIDDLE	LTE 20 MHz	16QAM	-377.02	mHz
MIDDLE	LTE 20 MHz	64QAM	-52.19	mHz
MIDDLE	LTE 20 MHz	256QAM	-333.43	mHz
TOP	LTE 20 MHz	QPSK	64.29	mHz
TOP	LTE 20 MHz	16QAM	329.04	mHz
TOP	LTE 20 MHz	64QAM	-386.48	mHz
TOP	LTE 20 MHz	256QAM	-373.70	mHz

Temperature = -20°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-219.03	mHz
BOTTOM	LTE 5 MHz	16QAM	350.41	mHz
BOTTOM	LTE 5 MHz	64QAM	203.12	mHz
BOTTOM	LTE 5 MHz	256QAM	162.62	mHz
MIDDLE	LTE 5 MHz	QPSK	337.17	mHz
MIDDLE	LTE 5 MHz	16QAM	-908.08	mHz
MIDDLE	LTE 5 MHz	64QAM	954.28	mHz
MIDDLE	LTE 5 MHz	256QAM	-66.95	mHz
TOP	LTE 5 MHz	QPSK	191.74	mHz
TOP	LTE 5 MHz	16QAM	-288.10	mHz
TOP	LTE 5 MHz	64QAM	462.10	mHz
TOP	LTE 5 MHz	256QAM	-300.06	mHz
BOTTOM	LTE 10 MHz	QPSK	120.54	mHz
BOTTOM	LTE 10 MHz	16QAM	393.02	mHz
BOTTOM	LTE 10 MHz	64QAM	-52.33	mHz
BOTTOM	LTE 10 MHz	256QAM	411.80	mHz
MIDDLE	LTE 10 MHz	QPSK	-769.85	mHz
MIDDLE	LTE 10 MHz	16QAM	22.39	mHz
MIDDLE	LTE 10 MHz	64QAM	996.48	mHz
MIDDLE	LTE 10 MHz	256QAM	615.86	mHz
TOP	LTE 10 MHz	QPSK	-110.20	mHz
TOP	LTE 10 MHz	16QAM	-158.80	mHz
TOP	LTE 10 MHz	64QAM	348.44	mHz
TOP	LTE 10 MHz	256QAM	-83.61	mHz
BOTTOM	LTE 15 MHz	QPSK	267.97	mHz
BOTTOM	LTE 15 MHz	16QAM	1.80	Hz
BOTTOM	LTE 15 MHz	64QAM	240.39	mHz
BOTTOM	LTE 15 MHz	256QAM	329.24	mHz
MIDDLE	LTE 15 MHz	QPSK	-351.50	mHz
MIDDLE	LTE 15 MHz	16QAM	-640.95	mHz
MIDDLE	LTE 15 MHz	64QAM	-2.55	Hz
MIDDLE	LTE 15 MHz	256QAM	1.40	Hz
TOP	LTE 15 MHz	QPSK	-374.67	mHz
TOP	LTE 15 MHz	16QAM	383.12	mHz
TOP	LTE 15 MHz	64QAM	-53.20	mHz
TOP	LTE 15 MHz	256QAM	322.33	mHz
BOTTOM	LTE 20 MHz	QPSK	-274.57	mHz
BOTTOM	LTE 20 MHz	16QAM	372.46	mHz
BOTTOM	LTE 20 MHz	64QAM	55.52	mHz
BOTTOM	LTE 20 MHz	256QAM	343.87	mHz
MIDDLE	LTE 20 MHz	QPSK	252.18	mHz
MIDDLE	LTE 20 MHz	16QAM	235.74	mHz
MIDDLE	LTE 20 MHz	64QAM	-122.95	mHz
MIDDLE	LTE 20 MHz	256QAM	426.54	mHz
TOP	LTE 20 MHz	QPSK	64.47	mHz
TOP	LTE 20 MHz	16QAM	443.25	mHz
TOP	LTE 20 MHz	64QAM	107.45	mHz
TOP	LTE 20 MHz	256QAM	-226.24	mHz

Temperature = -10°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	368.74	mHz
BOTTOM	LTE 5 MHz	16QAM	-207.49	mHz
BOTTOM	LTE 5 MHz	64QAM	407.35	mHz
BOTTOM	LTE 5 MHz	256QAM	174.59	mHz
MIDDLE	LTE 5 MHz	QPSK	1.99	Hz
MIDDLE	LTE 5 MHz	16QAM	1.58	Hz
MIDDLE	LTE 5 MHz	64QAM	44.14	mHz
MIDDLE	LTE 5 MHz	256QAM	-309.03	mHz
TOP	LTE 5 MHz	QPSK	-327.69	mHz
TOP	LTE 5 MHz	16QAM	428.40	mHz
TOP	LTE 5 MHz	64QAM	-1.93	Hz
TOP	LTE 5 MHz	256QAM	29.01	mHz
BOTTOM	LTE 10 MHz	QPSK	-41.50	mHz
BOTTOM	LTE 10 MHz	16QAM	247.44	mHz
BOTTOM	LTE 10 MHz	64QAM	-263.69	mHz
BOTTOM	LTE 10 MHz	256QAM	120.19	mHz
MIDDLE	LTE 10 MHz	QPSK	872.89	mHz
MIDDLE	LTE 10 MHz	16QAM	810.54	mHz
MIDDLE	LTE 10 MHz	64QAM	321.30	mHz
MIDDLE	LTE 10 MHz	256QAM	219.92	mHz
TOP	LTE 10 MHz	QPSK	335.01	mHz
TOP	LTE 10 MHz	16QAM	365.91	mHz
TOP	LTE 10 MHz	64QAM	109.15	mHz
TOP	LTE 10 MHz	256QAM	-229.47	mHz
BOTTOM	LTE 15 MHz	QPSK	-341.55	mHz
BOTTOM	LTE 15 MHz	16QAM	258.84	mHz
BOTTOM	LTE 15 MHz	64QAM	185.36	mHz
BOTTOM	LTE 15 MHz	256QAM	37.67	mHz
MIDDLE	LTE 15 MHz	QPSK	-982.39	mHz
MIDDLE	LTE 15 MHz	16QAM	414.33	mHz
MIDDLE	LTE 15 MHz	64QAM	-1.00	Hz
MIDDLE	LTE 15 MHz	256QAM	678.59	mHz
TOP	LTE 15 MHz	QPSK	212.86	mHz
TOP	LTE 15 MHz	16QAM	123.17	mHz
TOP	LTE 15 MHz	64QAM	355.77	mHz
TOP	LTE 15 MHz	256QAM	-36.10	mHz
BOTTOM	LTE 20 MHz	QPSK	294.35	mHz
BOTTOM	LTE 20 MHz	16QAM	-308.34	mHz
BOTTOM	LTE 20 MHz	64QAM	-104.94	mHz
BOTTOM	LTE 20 MHz	256QAM	127.73	mHz
MIDDLE	LTE 20 MHz	QPSK	93.51	mHz
MIDDLE	LTE 20 MHz	16QAM	153.89	mHz
MIDDLE	LTE 20 MHz	64QAM	397.74	mHz
MIDDLE	LTE 20 MHz	256QAM	301.24	mHz
TOP	LTE 20 MHz	QPSK	46.55	mHz
TOP	LTE 20 MHz	16QAM	296.31	mHz
TOP	LTE 20 MHz	64QAM	346.61	mHz
TOP	LTE 20 MHz	256QAM	301.13	mHz

Temperature = 0°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-72.97	mHz
BOTTOM	LTE 5 MHz	16QAM	447.87	mHz
BOTTOM	LTE 5 MHz	64QAM	72.30	mHz
BOTTOM	LTE 5 MHz	256QAM	-386.95	mHz
MIDDLE	LTE 5 MHz	QPSK	-381.20	mHz
MIDDLE	LTE 5 MHz	16QAM	-366.23	mHz
MIDDLE	LTE 5 MHz	64QAM	-348.95	mHz
MIDDLE	LTE 5 MHz	256QAM	-323.26	mHz
TOP	LTE 5 MHz	QPSK	-345.01	mHz
TOP	LTE 5 MHz	16QAM	244.00	mHz
TOP	LTE 5 MHz	64QAM	335.98	mHz
TOP	LTE 5 MHz	256QAM	265.72	mHz
BOTTOM	LTE 10 MHz	QPSK	1.93	Hz
BOTTOM	LTE 10 MHz	16QAM	-230.06	mHz
BOTTOM	LTE 10 MHz	64QAM	-320.04	mHz
BOTTOM	LTE 10 MHz	256QAM	402.76	mHz
MIDDLE	LTE 10 MHz	QPSK	286.37	mHz
MIDDLE	LTE 10 MHz	16QAM	297.59	mHz
MIDDLE	LTE 10 MHz	64QAM	393.02	mHz
MIDDLE	LTE 10 MHz	256QAM	28.29	mHz
TOP	LTE 10 MHz	QPSK	214.10	mHz
TOP	LTE 10 MHz	16QAM	36.69	mHz
TOP	LTE 10 MHz	64QAM	176.19	mHz
TOP	LTE 10 MHz	256QAM	-167.16	mHz
BOTTOM	LTE 15 MHz	QPSK	425.66	mHz
BOTTOM	LTE 15 MHz	16QAM	104.57	mHz
BOTTOM	LTE 15 MHz	64QAM	-278.34	mHz
BOTTOM	LTE 15 MHz	256QAM	-258.56	mHz
MIDDLE	LTE 15 MHz	QPSK	-195.84	mHz
MIDDLE	LTE 15 MHz	16QAM	-220.53	mHz
MIDDLE	LTE 15 MHz	64QAM	-127.35	mHz
MIDDLE	LTE 15 MHz	256QAM	-330.97	mHz
TOP	LTE 15 MHz	QPSK	320.07	mHz
TOP	LTE 15 MHz	16QAM	2.36	Hz
TOP	LTE 15 MHz	64QAM	-52.28	mHz
TOP	LTE 15 MHz	256QAM	-285.23	mHz
BOTTOM	LTE 20 MHz	QPSK	-312.06	mHz
BOTTOM	LTE 20 MHz	16QAM	106.26	mHz
BOTTOM	LTE 20 MHz	64QAM	430.10	mHz
BOTTOM	LTE 20 MHz	256QAM	356.95	mHz
MIDDLE	LTE 20 MHz	QPSK	-391.33	mHz
MIDDLE	LTE 20 MHz	16QAM	-21.88	mHz
MIDDLE	LTE 20 MHz	64QAM	268.68	mHz
MIDDLE	LTE 20 MHz	256QAM	-63.81	mHz
TOP	LTE 20 MHz	QPSK	368.94	mHz
TOP	LTE 20 MHz	16QAM	-229.60	mHz
TOP	LTE 20 MHz	64QAM	-285.47	mHz
TOP	LTE 20 MHz	256QAM	-66.68	mHz

Temperature =10°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	130.96	mHz
BOTTOM	LTE 5 MHz	16QAM	170.31	mHz
BOTTOM	LTE 5 MHz	64QAM	261.98	mHz
BOTTOM	LTE 5 MHz	256QAM	-37.84	mHz
MIDDLE	LTE 5 MHz	QPSK	-406.24	mHz
MIDDLE	LTE 5 MHz	16QAM	129.76	mHz
MIDDLE	LTE 5 MHz	64QAM	770.58	mHz
MIDDLE	LTE 5 MHz	256QAM	642.99	mHz
TOP	LTE 5 MHz	QPSK	-111.62	mHz
TOP	LTE 5 MHz	16QAM	-141.44	mHz
TOP	LTE 5 MHz	64QAM	349.35	mHz
TOP	LTE 5 MHz	256QAM	120.16	mHz
BOTTOM	LTE 10 MHz	QPSK	200.36	mHz
BOTTOM	LTE 10 MHz	16QAM	-155.82	mHz
BOTTOM	LTE 10 MHz	64QAM	-178.65	mHz
BOTTOM	LTE 10 MHz	256QAM	-203.00	mHz
MIDDLE	LTE 10 MHz	QPSK	262.99	mHz
MIDDLE	LTE 10 MHz	16QAM	1.86	Hz
MIDDLE	LTE 10 MHz	64QAM	818.74	mHz
MIDDLE	LTE 10 MHz	256QAM	-219.49	mHz
TOP	LTE 10 MHz	QPSK	50.51	mHz
TOP	LTE 10 MHz	16QAM	91.08	mHz
TOP	LTE 10 MHz	64QAM	3.37	Hz
TOP	LTE 10 MHz	256QAM	23.16	mHz
BOTTOM	LTE 15 MHz	QPSK	-71.24	mHz
BOTTOM	LTE 15 MHz	16QAM	-251.96	mHz
BOTTOM	LTE 15 MHz	64QAM	424.92	mHz
BOTTOM	LTE 15 MHz	256QAM	-86.89	mHz
MIDDLE	LTE 15 MHz	QPSK	767.82	mHz
MIDDLE	LTE 15 MHz	16QAM	-587.19	mHz
MIDDLE	LTE 15 MHz	64QAM	-187.18	mHz
MIDDLE	LTE 15 MHz	256QAM	-865.35	mHz
TOP	LTE 15 MHz	QPSK	432.64	mHz
TOP	LTE 15 MHz	16QAM	355.12	mHz
TOP	LTE 15 MHz	64QAM	-182.98	mHz
TOP	LTE 15 MHz	256QAM	119.05	mHz
BOTTOM	LTE 20 MHz	QPSK	399.66	mHz
BOTTOM	LTE 20 MHz	16QAM	106.21	mHz
BOTTOM	LTE 20 MHz	64QAM	135.61	mHz
BOTTOM	LTE 20 MHz	256QAM	173.68	mHz
MIDDLE	LTE 20 MHz	QPSK	-1.53	Hz
MIDDLE	LTE 20 MHz	16QAM	483.37	mHz
MIDDLE	LTE 20 MHz	64QAM	-398.16	mHz
MIDDLE	LTE 20 MHz	256QAM	137.48	mHz
TOP	LTE 20 MHz	QPSK	-28.67	mHz
TOP	LTE 20 MHz	16QAM	228.46	mHz
TOP	LTE 20 MHz	64QAM	288.23	mHz
TOP	LTE 20 MHz	256QAM	-200.40	mHz

Temperature = 20°C				
Channel	Channel	Channel	Channel	Channel
BOTTOM	LTE 5 MHz	QPSK	303.39	mHz
BOTTOM	LTE 5 MHz	16QAM	46.898	mHz
BOTTOM	LTE 5 MHz	64QAM	580.27	mHz
BOTTOM	LTE 5 MHz	256QAM	400.98	mHz
MIDDLE	LTE 5 MHz	QPSK	-674.5	mHz
MIDDLE	LTE 5 MHz	16QAM	930.05	mHz
MIDDLE	LTE 5 MHz	64QAM	1.0097	Hz
MIDDLE	LTE 5 MHz	256QAM	-538.2	mHz
TOP	LTE 5 MHz	QPSK	-1.273	Hz
TOP	LTE 5 MHz	16QAM	480.17	mHz
TOP	LTE 5 MHz	64QAM	-2.551	Hz
TOP	LTE 5 MHz	256QAM	-2.051	Hz
BOTTOM	LTE 10 MHz	QPSK	-738.1	mHz
BOTTOM	LTE 10 MHz	16QAM	1.3787	Hz
BOTTOM	LTE 10 MHz	64QAM	-438.5	mHz
BOTTOM	LTE 10 MHz	256QAM	-916.7	mHz
MIDDLE	LTE 10 MHz	QPSK	2.7986	Hz
MIDDLE	LTE 10 MHz	16QAM	-707.8	mHz
MIDDLE	LTE 10 MHz	64QAM	2.1359	Hz
MIDDLE	LTE 10 MHz	256QAM	1.0804	Hz
TOP	LTE 10 MHz	QPSK	-241	mHz
TOP	LTE 10 MHz	16QAM	523.18	mHz
TOP	LTE 10 MHz	64QAM	1.2117	Hz
TOP	LTE 10 MHz	256QAM	292.13	mHz
BOTTOM	LTE 15 MHz	QPSK	880.26	mHz
BOTTOM	LTE 15 MHz	16QAM	404.66	mHz
BOTTOM	LTE 15 MHz	64QAM	-1.063	Hz
BOTTOM	LTE 15 MHz	256QAM	-692.9	mHz
MIDDLE	LTE 15 MHz	QPSK	-589.3	mHz
MIDDLE	LTE 15 MHz	16QAM	992.48	mHz
MIDDLE	LTE 15 MHz	64QAM	-574.1	mHz
MIDDLE	LTE 15 MHz	256QAM	61.527	mHz
TOP	LTE 15 MHz	QPSK	1.0131	Hz
TOP	LTE 15 MHz	16QAM	3.3564	Hz
TOP	LTE 15 MHz	64QAM	1.1457	Hz
TOP	LTE 15 MHz	256QAM	-1.606	Hz
BOTTOM	LTE 20 MHz	QPSK	12.958	mHz
BOTTOM	LTE 20 MHz	16QAM	-1.056	Hz
BOTTOM	LTE 20 MHz	64QAM	-521.5	mHz
BOTTOM	LTE 20 MHz	256QAM	-584.9	mHz
MIDDLE	LTE 20 MHz	QPSK	-2.817	Hz
MIDDLE	LTE 20 MHz	16QAM	1.4233	Hz
MIDDLE	LTE 20 MHz	64QAM	-1.296	Hz
MIDDLE	LTE 20 MHz	256QAM	496.33	mHz
TOP	LTE 20 MHz	QPSK	1.4502	Hz
TOP	LTE 20 MHz	16QAM	-256.6	mHz
TOP	LTE 20 MHz	64QAM	387.74	mHz
TOP	LTE 20 MHz	256QAM	424.4	mHz

Temperature = 30°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-90.47	mHz
BOTTOM	LTE 5 MHz	16QAM	140.92	mHz
BOTTOM	LTE 5 MHz	64QAM	-251.78	mHz
BOTTOM	LTE 5 MHz	256QAM	262.56	mHz
MIDDLE	LTE 5 MHz	QPSK	453.82	mHz
MIDDLE	LTE 5 MHz	16QAM	-241.87	mHz
MIDDLE	LTE 5 MHz	64QAM	-284.49	mHz
MIDDLE	LTE 5 MHz	256QAM	-212.43	mHz
TOP	LTE 5 MHz	QPSK	-268.19	mHz
TOP	LTE 5 MHz	16QAM	-82.73	mHz
TOP	LTE 5 MHz	64QAM	-181.34	mHz
TOP	LTE 5 MHz	256QAM	71.15	mHz
BOTTOM	LTE 10 MHz	QPSK	397.39	mHz
BOTTOM	LTE 10 MHz	16QAM	107.92	mHz
BOTTOM	LTE 10 MHz	64QAM	-225.27	mHz
BOTTOM	LTE 10 MHz	256QAM	281.60	mHz
MIDDLE	LTE 10 MHz	QPSK	346.55	mHz
MIDDLE	LTE 10 MHz	16QAM	272.29	mHz
MIDDLE	LTE 10 MHz	64QAM	367.94	mHz
MIDDLE	LTE 10 MHz	256QAM	-226.01	mHz
TOP	LTE 10 MHz	QPSK	-90.28	mHz
TOP	LTE 10 MHz	16QAM	458.19	mHz
TOP	LTE 10 MHz	64QAM	-367.77	mHz
TOP	LTE 10 MHz	256QAM	-270.06	mHz
BOTTOM	LTE 15 MHz	QPSK	305.14	mHz
BOTTOM	LTE 15 MHz	16QAM	217.26	mHz
BOTTOM	LTE 15 MHz	64QAM	-357.12	mHz
BOTTOM	LTE 15 MHz	256QAM	-342.18	mHz
MIDDLE	LTE 15 MHz	QPSK	364.28	mHz
MIDDLE	LTE 15 MHz	16QAM	107.93	mHz
MIDDLE	LTE 15 MHz	64QAM	102.26	mHz
MIDDLE	LTE 15 MHz	256QAM	-64.43	mHz
TOP	LTE 15 MHz	QPSK	-266.40	mHz
TOP	LTE 15 MHz	16QAM	-67.49	mHz
TOP	LTE 15 MHz	64QAM	483.28	mHz
TOP	LTE 15 MHz	256QAM	-365.01	mHz
BOTTOM	LTE 20 MHz	QPSK	-328.69	mHz
BOTTOM	LTE 20 MHz	16QAM	282.83	mHz
BOTTOM	LTE 20 MHz	64QAM	237.61	mHz
BOTTOM	LTE 20 MHz	256QAM	-182.02	mHz
MIDDLE	LTE 20 MHz	QPSK	412.55	mHz
MIDDLE	LTE 20 MHz	16QAM	-312.69	mHz
MIDDLE	LTE 20 MHz	64QAM	-42.11	mHz
MIDDLE	LTE 20 MHz	256QAM	-303.69	mHz
TOP	LTE 20 MHz	QPSK	-156.22	mHz
TOP	LTE 20 MHz	16QAM	-101.43	mHz
TOP	LTE 20 MHz	64QAM	127.45	mHz
TOP	LTE 20 MHz	256QAM	-1.24	Hz

Temperature = 40°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	76.33	mHz
BOTTOM	LTE 5 MHz	16QAM	269.96	mHz
BOTTOM	LTE 5 MHz	64QAM	149.63	mHz
BOTTOM	LTE 5 MHz	256QAM	303.01	mHz
MIDDLE	LTE 5 MHz	QPSK	-140.00	mHz
MIDDLE	LTE 5 MHz	16QAM	-448.03	mHz
MIDDLE	LTE 5 MHz	64QAM	-1.81	Hz
MIDDLE	LTE 5 MHz	256QAM	-282.96	mHz
TOP	LTE 5 MHz	QPSK	369.85	mHz
TOP	LTE 5 MHz	16QAM	-130.30	mHz
TOP	LTE 5 MHz	64QAM	308.94	mHz
TOP	LTE 5 MHz	256QAM	-157.58	mHz
BOTTOM	LTE 10 MHz	QPSK	317.48	mHz
BOTTOM	LTE 10 MHz	16QAM	46.44	mHz
BOTTOM	LTE 10 MHz	64QAM	481.08	mHz
BOTTOM	LTE 10 MHz	256QAM	301.25	mHz
MIDDLE	LTE 10 MHz	QPSK	4.95	Hz
MIDDLE	LTE 10 MHz	16QAM	735.47	mHz
MIDDLE	LTE 10 MHz	64QAM	-447.39	mHz
MIDDLE	LTE 10 MHz	256QAM	-59.38	mHz
TOP	LTE 10 MHz	QPSK	47.93	mHz
TOP	LTE 10 MHz	16QAM	352.56	mHz
TOP	LTE 10 MHz	64QAM	-151.22	mHz
TOP	LTE 10 MHz	256QAM	-250.16	mHz
BOTTOM	LTE 15 MHz	QPSK	-296.42	mHz
BOTTOM	LTE 15 MHz	16QAM	428.18	mHz
BOTTOM	LTE 15 MHz	64QAM	-79.88	mHz
BOTTOM	LTE 15 MHz	256QAM	-294.38	mHz
MIDDLE	LTE 15 MHz	QPSK	1.35	Hz
MIDDLE	LTE 15 MHz	16QAM	-1.58	Hz
MIDDLE	LTE 15 MHz	64QAM	-213.45	mHz
MIDDLE	LTE 15 MHz	256QAM	-241.44	mHz
TOP	LTE 15 MHz	QPSK	-221.12	mHz
TOP	LTE 15 MHz	16QAM	-156.55	mHz
TOP	LTE 15 MHz	64QAM	479.57	mHz
TOP	LTE 15 MHz	256QAM	125.58	mHz
BOTTOM	LTE 20 MHz	QPSK	-70.23	mHz
BOTTOM	LTE 20 MHz	16QAM	-203.50	mHz
BOTTOM	LTE 20 MHz	64QAM	-163.81	mHz
BOTTOM	LTE 20 MHz	256QAM	-357.46	mHz
MIDDLE	LTE 20 MHz	QPSK	-364.17	mHz
MIDDLE	LTE 20 MHz	16QAM	-282.86	mHz
MIDDLE	LTE 20 MHz	64QAM	-184.40	mHz
MIDDLE	LTE 20 MHz	256QAM	304.73	mHz
TOP	LTE 20 MHz	QPSK	165.90	mHz
TOP	LTE 20 MHz	16QAM	410.20	mHz
TOP	LTE 20 MHz	64QAM	199.59	mHz
TOP	LTE 20 MHz	256QAM	430.64	mHz

Temperature = 50°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-24.43	mHz
BOTTOM	LTE 5 MHz	16QAM	330.96	mHz
BOTTOM	LTE 5 MHz	64QAM	155.33	mHz
BOTTOM	LTE 5 MHz	256QAM	44.14	mHz
MIDDLE	LTE 5 MHz	QPSK	395.57	mHz
MIDDLE	LTE 5 MHz	16QAM	871.62	mHz
MIDDLE	LTE 5 MHz	64QAM	1.90	Hz
MIDDLE	LTE 5 MHz	256QAM	-101.97	mHz
TOP	LTE 5 MHz	QPSK	196.04	mHz
TOP	LTE 5 MHz	16QAM	498.25	mHz
TOP	LTE 5 MHz	64QAM	214.72	mHz
TOP	LTE 5 MHz	256QAM	-208.49	mHz
BOTTOM	LTE 10 MHz	QPSK	-323.23	mHz
BOTTOM	LTE 10 MHz	16QAM	175.04	mHz
BOTTOM	LTE 10 MHz	64QAM	-162.17	mHz
BOTTOM	LTE 10 MHz	256QAM	422.36	mHz
MIDDLE	LTE 10 MHz	QPSK	1.25	Hz
MIDDLE	LTE 10 MHz	16QAM	-478.19	mHz
MIDDLE	LTE 10 MHz	64QAM	-1.77	Hz
MIDDLE	LTE 10 MHz	256QAM	1.24	Hz
TOP	LTE 10 MHz	QPSK	300.18	mHz
TOP	LTE 10 MHz	16QAM	-54.89	mHz
TOP	LTE 10 MHz	64QAM	-204.23	mHz
TOP	LTE 10 MHz	256QAM	471.55	mHz
BOTTOM	LTE 15 MHz	QPSK	276.87	mHz
BOTTOM	LTE 15 MHz	16QAM	165.87	mHz
BOTTOM	LTE 15 MHz	64QAM	-326.91	mHz
BOTTOM	LTE 15 MHz	256QAM	327.74	mHz
MIDDLE	LTE 15 MHz	QPSK	1.30	Hz
MIDDLE	LTE 15 MHz	16QAM	420.88	mHz
MIDDLE	LTE 15 MHz	64QAM	694.29	mHz
MIDDLE	LTE 15 MHz	256QAM	1.65	Hz
TOP	LTE 15 MHz	QPSK	-1.69	Hz
TOP	LTE 15 MHz	16QAM	157.57	mHz
TOP	LTE 15 MHz	64QAM	348.73	mHz
TOP	LTE 15 MHz	256QAM	-370.73	mHz
BOTTOM	LTE 20 MHz	QPSK	-283.91	mHz
BOTTOM	LTE 20 MHz	16QAM	175.45	mHz
BOTTOM	LTE 20 MHz	64QAM	67.80	mHz
BOTTOM	LTE 20 MHz	256QAM	495.03	mHz
MIDDLE	LTE 20 MHz	QPSK	135.57	mHz
MIDDLE	LTE 20 MHz	16QAM	-107.58	mHz
MIDDLE	LTE 20 MHz	64QAM	-111.42	mHz
MIDDLE	LTE 20 MHz	256QAM	402.47	mHz
TOP	LTE 20 MHz	QPSK	464.39	mHz
TOP	LTE 20 MHz	16QAM	361.76	mHz
TOP	LTE 20 MHz	64QAM	404.40	mHz
TOP	LTE 20 MHz	256QAM	58.27	mHz

RF PORT 2

Temperature = -30°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	719.38	mHz
BOTTOM	LTE 5 MHz	16QAM	527.56	mHz
BOTTOM	LTE 5 MHz	64QAM	-81.68	mHz
BOTTOM	LTE 5 MHz	256QAM	88.32	mHz
MIDDLE	LTE 5 MHz	QPSK	-262.71	mHz
MIDDLE	LTE 5 MHz	16QAM	3.78	Hz
MIDDLE	LTE 5 MHz	64QAM	-59.04	mHz
MIDDLE	LTE 5 MHz	256QAM	588.01	mHz
TOP	LTE 5 MHz	QPSK	-859.81	mHz
TOP	LTE 5 MHz	16QAM	-0.93	Hz
TOP	LTE 5 MHz	64QAM	652.49	mHz
TOP	LTE 5 MHz	256QAM	-344.96	mHz
BOTTOM	LTE 10 MHz	QPSK	-875.86	mHz
BOTTOM	LTE 10 MHz	16QAM	-553.84	mHz
BOTTOM	LTE 10 MHz	64QAM	-356.92	mHz
BOTTOM	LTE 10 MHz	256QAM	-446.50	mHz
MIDDLE	LTE 10 MHz	QPSK	892.35	mHz
MIDDLE	LTE 10 MHz	16QAM	-75.47	mHz
MIDDLE	LTE 10 MHz	64QAM	117.53	mHz
MIDDLE	LTE 10 MHz	256QAM	-452.33	mHz
TOP	LTE 10 MHz	QPSK	605.20	mHz
TOP	LTE 10 MHz	16QAM	2.19	Hz
TOP	LTE 10 MHz	64QAM	425.45	mHz
TOP	LTE 10 MHz	256QAM	653.38	mHz
BOTTOM	LTE 15 MHz	QPSK	-465.97	mHz
BOTTOM	LTE 15 MHz	16QAM	-1.81	Hz
BOTTOM	LTE 15 MHz	64QAM	-812.86	mHz
BOTTOM	LTE 15 MHz	256QAM	639.42	mHz
MIDDLE	LTE 15 MHz	QPSK	-180.01	mHz
MIDDLE	LTE 15 MHz	16QAM	690.76	mHz
MIDDLE	LTE 15 MHz	64QAM	-238.14	mHz
MIDDLE	LTE 15 MHz	256QAM	447.84	mHz
TOP	LTE 15 MHz	QPSK	-414.60	mHz
TOP	LTE 15 MHz	16QAM	825.28	mHz
TOP	LTE 15 MHz	64QAM	-653.79	mHz
TOP	LTE 15 MHz	256QAM	258.39	mHz
BOTTOM	LTE 20 MHz	QPSK	-775.90	mHz
BOTTOM	LTE 20 MHz	16QAM	-216.80	mHz
BOTTOM	LTE 20 MHz	64QAM	675.68	mHz
BOTTOM	LTE 20 MHz	256QAM	-396.76	mHz
MIDDLE	LTE 20 MHz	QPSK	-68.31	mHz
MIDDLE	LTE 20 MHz	16QAM	-1.41	Hz
MIDDLE	LTE 20 MHz	64QAM	419.53	mHz
MIDDLE	LTE 20 MHz	256QAM	-730.38	mHz
TOP	LTE 20 MHz	QPSK	798.35	mHz
TOP	LTE 20 MHz	16QAM	151.76	mHz
TOP	LTE 20 MHz	64QAM	312.51	mHz
TOP	LTE 20 MHz	256QAM	296.32	mHz

Temperature = -20°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	205.28	mHz
BOTTOM	LTE 5 MHz	16QAM	-2.23	Hz
BOTTOM	LTE 5 MHz	64QAM	752.51	mHz
BOTTOM	LTE 5 MHz	256QAM	-572.41	mHz
MIDDLE	LTE 5 MHz	QPSK	127.80	mHz
MIDDLE	LTE 5 MHz	16QAM	-122.34	mHz
MIDDLE	LTE 5 MHz	64QAM	-143.03	mHz
MIDDLE	LTE 5 MHz	256QAM	-251.35	mHz
TOP	LTE 5 MHz	QPSK	-381.53	mHz
TOP	LTE 5 MHz	16QAM	-1.09	Hz
TOP	LTE 5 MHz	64QAM	574.46	mHz
TOP	LTE 5 MHz	256QAM	895.61	mHz
BOTTOM	LTE 10 MHz	QPSK	898.18	mHz
BOTTOM	LTE 10 MHz	16QAM	-405.63	mHz
BOTTOM	LTE 10 MHz	64QAM	-636.44	mHz
BOTTOM	LTE 10 MHz	256QAM	-513.36	mHz
MIDDLE	LTE 10 MHz	QPSK	-395.21	mHz
MIDDLE	LTE 10 MHz	16QAM	-582.47	mHz
MIDDLE	LTE 10 MHz	64QAM	318.52	mHz
MIDDLE	LTE 10 MHz	256QAM	841.18	mHz
TOP	LTE 10 MHz	QPSK	-801.01	mHz
TOP	LTE 10 MHz	16QAM	-753.73	mHz
TOP	LTE 10 MHz	64QAM	-799.37	mHz
TOP	LTE 10 MHz	256QAM	-798.91	mHz
BOTTOM	LTE 15 MHz	QPSK	218.22	mHz
BOTTOM	LTE 15 MHz	16QAM	-869.57	mHz
BOTTOM	LTE 15 MHz	64QAM	-59.70	mHz
BOTTOM	LTE 15 MHz	256QAM	799.05	mHz
MIDDLE	LTE 15 MHz	QPSK	250.31	mHz
MIDDLE	LTE 15 MHz	16QAM	-730.92	mHz
MIDDLE	LTE 15 MHz	64QAM	243.77	mHz
MIDDLE	LTE 15 MHz	256QAM	564.26	mHz
TOP	LTE 15 MHz	QPSK	2.74	Hz
TOP	LTE 15 MHz	16QAM	-778.03	mHz
TOP	LTE 15 MHz	64QAM	178.17	mHz
TOP	LTE 15 MHz	256QAM	-148.76	mHz
BOTTOM	LTE 20 MHz	QPSK	-755.08	mHz
BOTTOM	LTE 20 MHz	16QAM	-818.63	mHz
BOTTOM	LTE 20 MHz	64QAM	-812.70	mHz
BOTTOM	LTE 20 MHz	256QAM	30.87	mHz
MIDDLE	LTE 20 MHz	QPSK	646.48	mHz
MIDDLE	LTE 20 MHz	16QAM	1.76	Hz
MIDDLE	LTE 20 MHz	64QAM	-305.03	mHz
MIDDLE	LTE 20 MHz	256QAM	-573.30	mHz
TOP	LTE 20 MHz	QPSK	627.83	mHz
TOP	LTE 20 MHz	16QAM	752.83	mHz
TOP	LTE 20 MHz	64QAM	498.94	mHz
TOP	LTE 20 MHz	256QAM	827.94	mHz

Temperature = -10°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	1.83	Hz
BOTTOM	LTE 5 MHz	16QAM	785.12	mHz
BOTTOM	LTE 5 MHz	64QAM	302.27	mHz
BOTTOM	LTE 5 MHz	256QAM	351.56	mHz
MIDDLE	LTE 5 MHz	QPSK	282.61	mHz
MIDDLE	LTE 5 MHz	16QAM	892.81	mHz
MIDDLE	LTE 5 MHz	64QAM	-810.89	mHz
MIDDLE	LTE 5 MHz	256QAM	210.23	mHz
TOP	LTE 5 MHz	QPSK	416.23	mHz
TOP	LTE 5 MHz	16QAM	140.93	mHz
TOP	LTE 5 MHz	64QAM	-239.77	mHz
TOP	LTE 5 MHz	256QAM	514.91	mHz
BOTTOM	LTE 10 MHz	QPSK	866.18	mHz
BOTTOM	LTE 10 MHz	16QAM	-383.94	mHz
BOTTOM	LTE 10 MHz	64QAM	760.90	mHz
BOTTOM	LTE 10 MHz	256QAM	758.60	mHz
MIDDLE	LTE 10 MHz	QPSK	742.19	mHz
MIDDLE	LTE 10 MHz	16QAM	-551.03	mHz
MIDDLE	LTE 10 MHz	64QAM	-249.63	mHz
MIDDLE	LTE 10 MHz	256QAM	-525.97	mHz
TOP	LTE 10 MHz	QPSK	-875.15	mHz
TOP	LTE 10 MHz	16QAM	-479.33	mHz
TOP	LTE 10 MHz	64QAM	-416.53	mHz
TOP	LTE 10 MHz	256QAM	726.89	mHz
BOTTOM	LTE 15 MHz	QPSK	841.74	mHz
BOTTOM	LTE 15 MHz	16QAM	168.40	mHz
BOTTOM	LTE 15 MHz	64QAM	772.02	mHz
BOTTOM	LTE 15 MHz	256QAM	35.02	mHz
MIDDLE	LTE 15 MHz	QPSK	-2.51	Hz
MIDDLE	LTE 15 MHz	16QAM	229.83	mHz
MIDDLE	LTE 15 MHz	64QAM	886.09	mHz
MIDDLE	LTE 15 MHz	256QAM	895.96	mHz
TOP	LTE 15 MHz	QPSK	-437.24	mHz
TOP	LTE 15 MHz	16QAM	-239.88	mHz
TOP	LTE 15 MHz	64QAM	446.36	mHz
TOP	LTE 15 MHz	256QAM	3.06	Hz
BOTTOM	LTE 20 MHz	QPSK	293.00	mHz
BOTTOM	LTE 20 MHz	16QAM	-457.38	mHz
BOTTOM	LTE 20 MHz	64QAM	416.11	mHz
BOTTOM	LTE 20 MHz	256QAM	549.72	mHz
MIDDLE	LTE 20 MHz	QPSK	-485.41	mHz
MIDDLE	LTE 20 MHz	16QAM	-868.73	mHz
MIDDLE	LTE 20 MHz	64QAM	787.68	mHz
MIDDLE	LTE 20 MHz	256QAM	233.06	mHz
TOP	LTE 20 MHz	QPSK	-2.12	Hz
TOP	LTE 20 MHz	16QAM	-270.96	mHz
TOP	LTE 20 MHz	64QAM	-624.13	mHz
TOP	LTE 20 MHz	256QAM	881.60	mHz

Temperature = 0°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	828.67	mHz
BOTTOM	LTE 5 MHz	16QAM	62.27	mHz
BOTTOM	LTE 5 MHz	64QAM	-55.61	mHz
BOTTOM	LTE 5 MHz	256QAM	-3.27	Hz
MIDDLE	LTE 5 MHz	QPSK	838.48	mHz
MIDDLE	LTE 5 MHz	16QAM	171.98	mHz
MIDDLE	LTE 5 MHz	64QAM	-150.87	mHz
MIDDLE	LTE 5 MHz	256QAM	355.46	mHz
TOP	LTE 5 MHz	QPSK	830.64	mHz
TOP	LTE 5 MHz	16QAM	464.74	mHz
TOP	LTE 5 MHz	64QAM	242.27	mHz
TOP	LTE 5 MHz	256QAM	310.84	mHz
BOTTOM	LTE 10 MHz	QPSK	794.03	mHz
BOTTOM	LTE 10 MHz	16QAM	-789.61	mHz
BOTTOM	LTE 10 MHz	64QAM	2.43	Hz
BOTTOM	LTE 10 MHz	256QAM	-367.11	mHz
MIDDLE	LTE 10 MHz	QPSK	799.66	mHz
MIDDLE	LTE 10 MHz	16QAM	603.89	mHz
MIDDLE	LTE 10 MHz	64QAM	154.31	mHz
MIDDLE	LTE 10 MHz	256QAM	846.16	mHz
TOP	LTE 10 MHz	QPSK	533.62	mHz
TOP	LTE 10 MHz	16QAM	-378.59	mHz
TOP	LTE 10 MHz	64QAM	-520.35	mHz
TOP	LTE 10 MHz	256QAM	-666.42	mHz
BOTTOM	LTE 15 MHz	QPSK	-422.44	mHz
BOTTOM	LTE 15 MHz	16QAM	-696.39	mHz
BOTTOM	LTE 15 MHz	64QAM	549.76	mHz
BOTTOM	LTE 15 MHz	256QAM	427.38	mHz
MIDDLE	LTE 15 MHz	QPSK	443.08	mHz
MIDDLE	LTE 15 MHz	16QAM	333.59	mHz
MIDDLE	LTE 15 MHz	64QAM	-305.43	mHz
MIDDLE	LTE 15 MHz	256QAM	-522.06	mHz
TOP	LTE 15 MHz	QPSK	-674.09	mHz
TOP	LTE 15 MHz	16QAM	-3.17	Hz
TOP	LTE 15 MHz	64QAM	-323.43	mHz
TOP	LTE 15 MHz	256QAM	-330.88	mHz
BOTTOM	LTE 20 MHz	QPSK	892.19	mHz
BOTTOM	LTE 20 MHz	16QAM	282.11	mHz
BOTTOM	LTE 20 MHz	64QAM	31.58	mHz
BOTTOM	LTE 20 MHz	256QAM	-390.44	mHz
MIDDLE	LTE 20 MHz	QPSK	688.21	mHz
MIDDLE	LTE 20 MHz	16QAM	1.80	Hz
MIDDLE	LTE 20 MHz	64QAM	570.92	mHz
MIDDLE	LTE 20 MHz	256QAM	-765.18	mHz
TOP	LTE 20 MHz	QPSK	-504.43	mHz
TOP	LTE 20 MHz	16QAM	184.44	mHz
TOP	LTE 20 MHz	64QAM	-792.31	mHz
TOP	LTE 20 MHz	256QAM	593.04	mHz

Temperature = 10°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	514.00	mHz
BOTTOM	LTE 5 MHz	16QAM	230.29	mHz
BOTTOM	LTE 5 MHz	64QAM	195.96	mHz
BOTTOM	LTE 5 MHz	256QAM	-766.11	mHz
MIDDLE	LTE 5 MHz	QPSK	-448.07	mHz
MIDDLE	LTE 5 MHz	16QAM	-682.63	mHz
MIDDLE	LTE 5 MHz	64QAM	-625.14	mHz
MIDDLE	LTE 5 MHz	256QAM	-1.93	Hz
TOP	LTE 5 MHz	QPSK	775.78	mHz
TOP	LTE 5 MHz	16QAM	339.65	mHz
TOP	LTE 5 MHz	64QAM	-588.20	mHz
TOP	LTE 5 MHz	256QAM	-139.19	mHz
BOTTOM	LTE 10 MHz	QPSK	-535.92	mHz
BOTTOM	LTE 10 MHz	16QAM	579.89	mHz
BOTTOM	LTE 10 MHz	64QAM	-794.53	mHz
BOTTOM	LTE 10 MHz	256QAM	100.34	mHz
MIDDLE	LTE 10 MHz	QPSK	114.87	mHz
MIDDLE	LTE 10 MHz	16QAM	659.83	mHz
MIDDLE	LTE 10 MHz	64QAM	410.19	mHz
MIDDLE	LTE 10 MHz	256QAM	-246.28	mHz
TOP	LTE 10 MHz	QPSK	-286.84	mHz
TOP	LTE 10 MHz	16QAM	-532.56	mHz
TOP	LTE 10 MHz	64QAM	469.01	mHz
TOP	LTE 10 MHz	256QAM	1.00	Hz
BOTTOM	LTE 15 MHz	QPSK	-398.12	mHz
BOTTOM	LTE 15 MHz	16QAM	884.91	mHz
BOTTOM	LTE 15 MHz	64QAM	-392.59	mHz
BOTTOM	LTE 15 MHz	256QAM	-193.84	mHz
MIDDLE	LTE 15 MHz	QPSK	1.72	Hz
MIDDLE	LTE 15 MHz	16QAM	817.98	mHz
MIDDLE	LTE 15 MHz	64QAM	821.13	mHz
MIDDLE	LTE 15 MHz	256QAM	-755.46	mHz
TOP	LTE 15 MHz	QPSK	166.00	mHz
TOP	LTE 15 MHz	16QAM	832.37	mHz
TOP	LTE 15 MHz	64QAM	-3.45	Hz
TOP	LTE 15 MHz	256QAM	298.78	mHz
BOTTOM	LTE 20 MHz	QPSK	-738.67	mHz
BOTTOM	LTE 20 MHz	16QAM	-180.35	mHz
BOTTOM	LTE 20 MHz	64QAM	-114.75	mHz
BOTTOM	LTE 20 MHz	256QAM	443.21	mHz
MIDDLE	LTE 20 MHz	QPSK	-166.61	mHz
MIDDLE	LTE 20 MHz	16QAM	471.67	mHz
MIDDLE	LTE 20 MHz	64QAM	-613.46	mHz
MIDDLE	LTE 20 MHz	256QAM	-599.19	mHz
TOP	LTE 20 MHz	QPSK	-1.70	Hz
TOP	LTE 20 MHz	16QAM	262.47	mHz
TOP	LTE 20 MHz	64QAM	609.25	mHz
TOP	LTE 20 MHz	256QAM	419.39	mHz

Temperature = 20°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-329.81	mHz
BOTTOM	LTE 5 MHz	16QAM	698.62	mHz
BOTTOM	LTE 5 MHz	64QAM	664.32	mHz
BOTTOM	LTE 5 MHz	256QAM	-410.38	mHz
MIDDLE	LTE 5 MHz	QPSK	-653.77	mHz
MIDDLE	LTE 5 MHz	16QAM	805.68	mHz
MIDDLE	LTE 5 MHz	64QAM	650.89	mHz
MIDDLE	LTE 5 MHz	256QAM	-651.68	mHz
TOP	LTE 5 MHz	QPSK	273.81	mHz
TOP	LTE 5 MHz	16QAM	-126.12	mHz
TOP	LTE 5 MHz	64QAM	-554.71	mHz
TOP	LTE 5 MHz	256QAM	214.66	mHz
BOTTOM	LTE 10 MHz	QPSK	-324.85	mHz
BOTTOM	LTE 10 MHz	16QAM	-413.12	mHz
BOTTOM	LTE 10 MHz	64QAM	-595.65	mHz
BOTTOM	LTE 10 MHz	256QAM	-2.81	Hz
MIDDLE	LTE 10 MHz	QPSK	-301.54	mHz
MIDDLE	LTE 10 MHz	16QAM	45.93	mHz
MIDDLE	LTE 10 MHz	64QAM	-752.93	mHz
MIDDLE	LTE 10 MHz	256QAM	569.78	mHz
TOP	LTE 10 MHz	QPSK	-129.78	mHz
TOP	LTE 10 MHz	16QAM	407.72	mHz
TOP	LTE 10 MHz	64QAM	3.04	Hz
TOP	LTE 10 MHz	256QAM	-256.52	mHz
BOTTOM	LTE 15 MHz	QPSK	246.13	mHz
BOTTOM	LTE 15 MHz	16QAM	-245.49	mHz
BOTTOM	LTE 15 MHz	64QAM	252.52	mHz
BOTTOM	LTE 15 MHz	256QAM	-329.51	mHz
MIDDLE	LTE 15 MHz	QPSK	-2.32	Hz
MIDDLE	LTE 15 MHz	16QAM	-345.73	mHz
MIDDLE	LTE 15 MHz	64QAM	221.20	mHz
MIDDLE	LTE 15 MHz	256QAM	-316.31	mHz
TOP	LTE 15 MHz	QPSK	-794.09	mHz
TOP	LTE 15 MHz	16QAM	612.64	mHz
TOP	LTE 15 MHz	64QAM	-479.42	mHz
TOP	LTE 15 MHz	256QAM	-312.11	mHz
BOTTOM	LTE 20 MHz	QPSK	447.72	mHz
BOTTOM	LTE 20 MHz	16QAM	-52.07	mHz
BOTTOM	LTE 20 MHz	64QAM	730.10	mHz
BOTTOM	LTE 20 MHz	256QAM	673.79	mHz
MIDDLE	LTE 20 MHz	QPSK	-4.56	Hz
MIDDLE	LTE 20 MHz	16QAM	-698.01	mHz
MIDDLE	LTE 20 MHz	64QAM	-853.29	mHz
MIDDLE	LTE 20 MHz	256QAM	-557.89	mHz
TOP	LTE 20 MHz	QPSK	-614.78	mHz
TOP	LTE 20 MHz	16QAM	56.74	mHz
TOP	LTE 20 MHz	64QAM	709.91	mHz
TOP	LTE 20 MHz	256QAM	-282.36	mHz

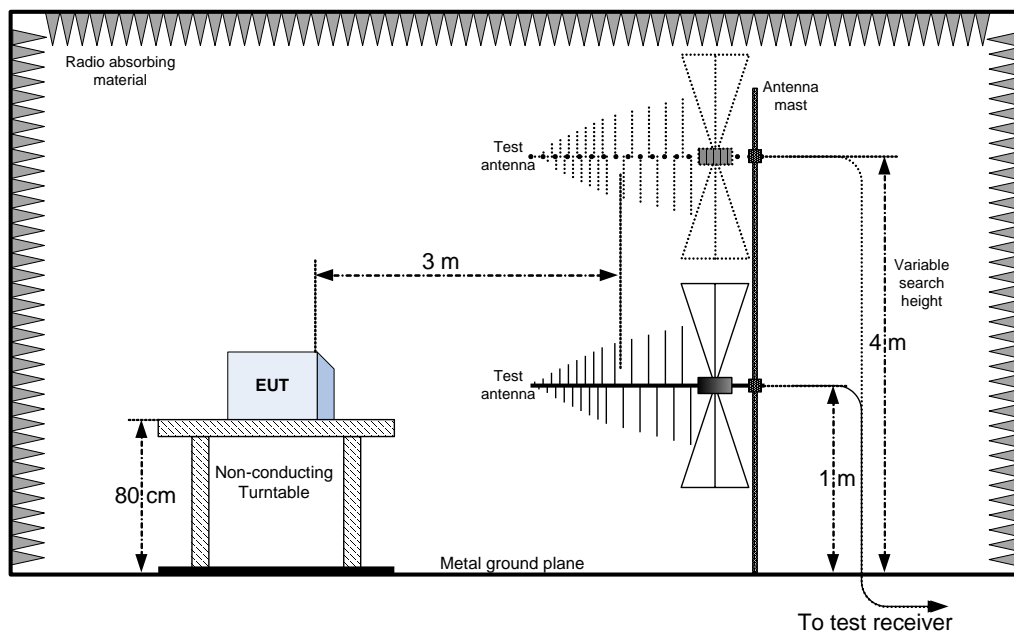
Temperature = 30°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-877.91	mHz
BOTTOM	LTE 5 MHz	16QAM	658.36	mHz
BOTTOM	LTE 5 MHz	64QAM	-888.13	mHz
BOTTOM	LTE 5 MHz	256QAM	40.06	mHz
MIDDLE	LTE 5 MHz	QPSK	283.02	mHz
MIDDLE	LTE 5 MHz	16QAM	36.39	mHz
MIDDLE	LTE 5 MHz	64QAM	573.54	mHz
MIDDLE	LTE 5 MHz	256QAM	64.02	mHz
TOP	LTE 5 MHz	QPSK	-842.30	mHz
TOP	LTE 5 MHz	16QAM	1.78	Hz
TOP	LTE 5 MHz	64QAM	-682.35	mHz
TOP	LTE 5 MHz	256QAM	487.42	mHz
BOTTOM	LTE 10 MHz	QPSK	-24.13	mHz
BOTTOM	LTE 10 MHz	16QAM	-739.36	mHz
BOTTOM	LTE 10 MHz	64QAM	894.15	mHz
BOTTOM	LTE 10 MHz	256QAM	393.74	mHz
MIDDLE	LTE 10 MHz	QPSK	591.63	mHz
MIDDLE	LTE 10 MHz	16QAM	-115.04	mHz
MIDDLE	LTE 10 MHz	64QAM	-114.21	mHz
MIDDLE	LTE 10 MHz	256QAM	-565.89	mHz
TOP	LTE 10 MHz	QPSK	-729.85	mHz
TOP	LTE 10 MHz	16QAM	-326.70	mHz
TOP	LTE 10 MHz	64QAM	-545.18	mHz
TOP	LTE 10 MHz	256QAM	891.07	mHz
BOTTOM	LTE 15 MHz	QPSK	289.39	mHz
BOTTOM	LTE 15 MHz	16QAM	-114.72	mHz
BOTTOM	LTE 15 MHz	64QAM	-321.57	mHz
BOTTOM	LTE 15 MHz	256QAM	-650.48	mHz
MIDDLE	LTE 15 MHz	QPSK	-796.37	mHz
MIDDLE	LTE 15 MHz	16QAM	-3.70	Hz
MIDDLE	LTE 15 MHz	64QAM	194.08	mHz
MIDDLE	LTE 15 MHz	256QAM	-440.21	mHz
TOP	LTE 15 MHz	QPSK	-4.71	Hz
TOP	LTE 15 MHz	16QAM	112.92	mHz
TOP	LTE 15 MHz	64QAM	420.34	mHz
TOP	LTE 15 MHz	256QAM	222.95	mHz
BOTTOM	LTE 20 MHz	QPSK	-739.94	mHz
BOTTOM	LTE 20 MHz	16QAM	-286.93	mHz
BOTTOM	LTE 20 MHz	64QAM	-842.53	mHz
BOTTOM	LTE 20 MHz	256QAM	-861.29	mHz
MIDDLE	LTE 20 MHz	QPSK	-1.37	Hz
MIDDLE	LTE 20 MHz	16QAM	-569.49	mHz
MIDDLE	LTE 20 MHz	64QAM	-227.79	mHz
MIDDLE	LTE 20 MHz	256QAM	882.82	mHz
TOP	LTE 20 MHz	QPSK	872.86	mHz
TOP	LTE 20 MHz	16QAM	-816.74	mHz
TOP	LTE 20 MHz	64QAM	-895.08	mHz
TOP	LTE 20 MHz	256QAM	-70.65	mHz

Temperature = 40°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-860.98	mHz
BOTTOM	LTE 5 MHz	16QAM	-615.13	mHz
BOTTOM	LTE 5 MHz	64QAM	218.27	mHz
BOTTOM	LTE 5 MHz	256QAM	624.30	mHz
MIDDLE	LTE 5 MHz	QPSK	104.15	mHz
MIDDLE	LTE 5 MHz	16QAM	-544.67	mHz
MIDDLE	LTE 5 MHz	64QAM	232.75	mHz
MIDDLE	LTE 5 MHz	256QAM	37.68	mHz
TOP	LTE 5 MHz	QPSK	742.50	mHz
TOP	LTE 5 MHz	16QAM	209.12	mHz
TOP	LTE 5 MHz	64QAM	481.72	mHz
TOP	LTE 5 MHz	256QAM	-295.08	mHz
BOTTOM	LTE 10 MHz	QPSK	597.24	mHz
BOTTOM	LTE 10 MHz	16QAM	-505.14	mHz
BOTTOM	LTE 10 MHz	64QAM	516.04	mHz
BOTTOM	LTE 10 MHz	256QAM	3.58	Hz
MIDDLE	LTE 10 MHz	QPSK	-802.18	mHz
MIDDLE	LTE 10 MHz	16QAM	-37.92	mHz
MIDDLE	LTE 10 MHz	64QAM	427.76	mHz
MIDDLE	LTE 10 MHz	256QAM	-570.23	mHz
TOP	LTE 10 MHz	QPSK	2.48	Hz
TOP	LTE 10 MHz	16QAM	624.43	mHz
TOP	LTE 10 MHz	64QAM	-833.67	mHz
TOP	LTE 10 MHz	256QAM	-862.42	mHz
BOTTOM	LTE 15 MHz	QPSK	65.88	mHz
BOTTOM	LTE 15 MHz	16QAM	172.38	mHz
BOTTOM	LTE 15 MHz	64QAM	-522.90	mHz
BOTTOM	LTE 15 MHz	256QAM	-827.95	mHz
MIDDLE	LTE 15 MHz	QPSK	127.45	mHz
MIDDLE	LTE 15 MHz	16QAM	577.27	mHz
MIDDLE	LTE 15 MHz	64QAM	-337.72	mHz
MIDDLE	LTE 15 MHz	256QAM	499.67	mHz
TOP	LTE 15 MHz	QPSK	744.09	mHz
TOP	LTE 15 MHz	16QAM	727.58	mHz
TOP	LTE 15 MHz	64QAM	-612.20	mHz
TOP	LTE 15 MHz	256QAM	2.45	Hz
BOTTOM	LTE 20 MHz	QPSK	-4.14	Hz
BOTTOM	LTE 20 MHz	16QAM	-765.08	mHz
BOTTOM	LTE 20 MHz	64QAM	-665.37	mHz
BOTTOM	LTE 20 MHz	256QAM	132.49	mHz
MIDDLE	LTE 20 MHz	QPSK	734.26	mHz
MIDDLE	LTE 20 MHz	16QAM	740.58	mHz
MIDDLE	LTE 20 MHz	64QAM	-838.26	mHz
MIDDLE	LTE 20 MHz	256QAM	-827.03	mHz
TOP	LTE 20 MHz	QPSK	-692.79	mHz
TOP	LTE 20 MHz	16QAM	-762.33	mHz
TOP	LTE 20 MHz	64QAM	685.31	mHz
TOP	LTE 20 MHz	256QAM	-1.06	Hz

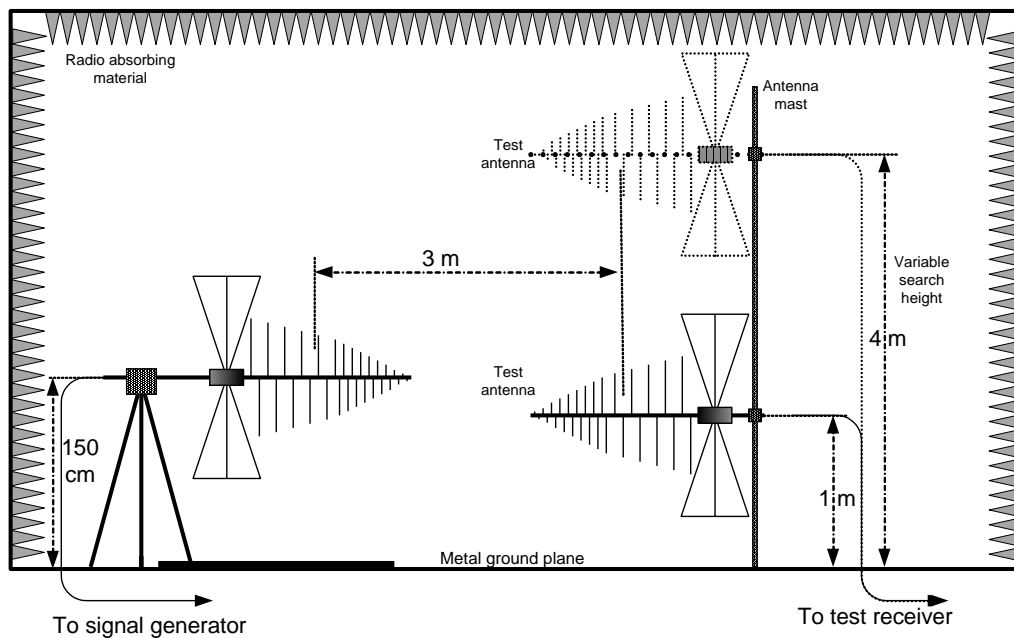
Temperature = 50°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-20.30	mHz
BOTTOM	LTE 5 MHz	16QAM	-820.95	mHz
BOTTOM	LTE 5 MHz	64QAM	760.56	mHz
BOTTOM	LTE 5 MHz	256QAM	4.61	Hz
MIDDLE	LTE 5 MHz	QPSK	629.95	mHz
MIDDLE	LTE 5 MHz	16QAM	154.17	mHz
MIDDLE	LTE 5 MHz	64QAM	179.28	mHz
MIDDLE	LTE 5 MHz	256QAM	-418.12	mHz
TOP	LTE 5 MHz	QPSK	733.97	mHz
TOP	LTE 5 MHz	16QAM	726.40	mHz
TOP	LTE 5 MHz	64QAM	-563.93	mHz
TOP	LTE 5 MHz	256QAM	859.71	mHz
BOTTOM	LTE 10 MHz	QPSK	-744.81	mHz
BOTTOM	LTE 10 MHz	16QAM	805.59	mHz
BOTTOM	LTE 10 MHz	64QAM	413.26	mHz
BOTTOM	LTE 10 MHz	256QAM	-562.30	mHz
MIDDLE	LTE 10 MHz	QPSK	848.84	mHz
MIDDLE	LTE 10 MHz	16QAM	-488.94	mHz
MIDDLE	LTE 10 MHz	64QAM	-784.52	mHz
MIDDLE	LTE 10 MHz	256QAM	100.02	mHz
TOP	LTE 10 MHz	QPSK	-121.35	mHz
TOP	LTE 10 MHz	16QAM	-181.16	mHz
TOP	LTE 10 MHz	64QAM	29.76	mHz
TOP	LTE 10 MHz	256QAM	-3.27	Hz
BOTTOM	LTE 15 MHz	QPSK	-713.49	mHz
BOTTOM	LTE 15 MHz	16QAM	-421.72	mHz
BOTTOM	LTE 15 MHz	64QAM	634.04	mHz
BOTTOM	LTE 15 MHz	256QAM	-703.10	mHz
MIDDLE	LTE 15 MHz	QPSK	-661.19	mHz
MIDDLE	LTE 15 MHz	16QAM	-180.25	mHz
MIDDLE	LTE 15 MHz	64QAM	775.06	mHz
MIDDLE	LTE 15 MHz	256QAM	856.12	mHz
TOP	LTE 15 MHz	QPSK	334.15	mHz
TOP	LTE 15 MHz	16QAM	375.22	mHz
TOP	LTE 15 MHz	64QAM	73.75	mHz
TOP	LTE 15 MHz	256QAM	658.14	mHz
BOTTOM	LTE 20 MHz	QPSK	-2.34	Hz
BOTTOM	LTE 20 MHz	16QAM	-522.36	mHz
BOTTOM	LTE 20 MHz	64QAM	843.20	mHz
BOTTOM	LTE 20 MHz	256QAM	-860.17	mHz
MIDDLE	LTE 20 MHz	QPSK	-672.08	mHz
MIDDLE	LTE 20 MHz	16QAM	604.66	mHz
MIDDLE	LTE 20 MHz	64QAM	-756.62	mHz
MIDDLE	LTE 20 MHz	256QAM	-487.97	mHz
TOP	LTE 20 MHz	QPSK	531.70	mHz
TOP	LTE 20 MHz	16QAM	896.62	mHz
TOP	LTE 20 MHz	64QAM	-778.89	mHz
TOP	LTE 20 MHz	256QAM	-99.88	mHz

Appendix B: Block diagrams of test set-ups

Radiated emissions set-up



Substitution method set-up



Appendix C: EUT Photos

Photo Set up



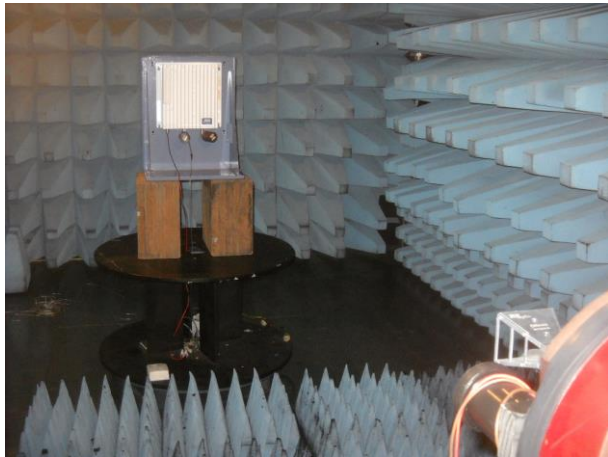
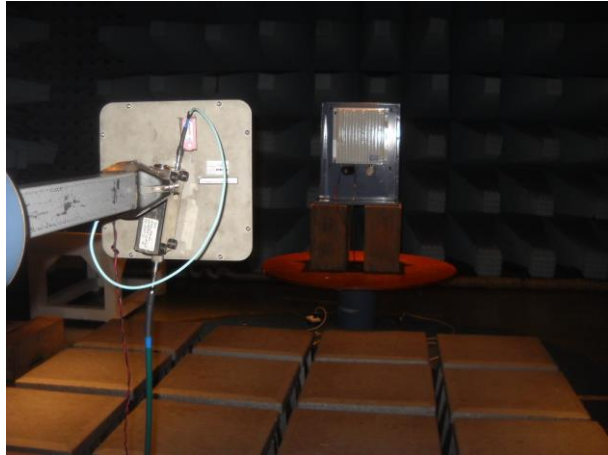


Photo EUT





END OF REPORT