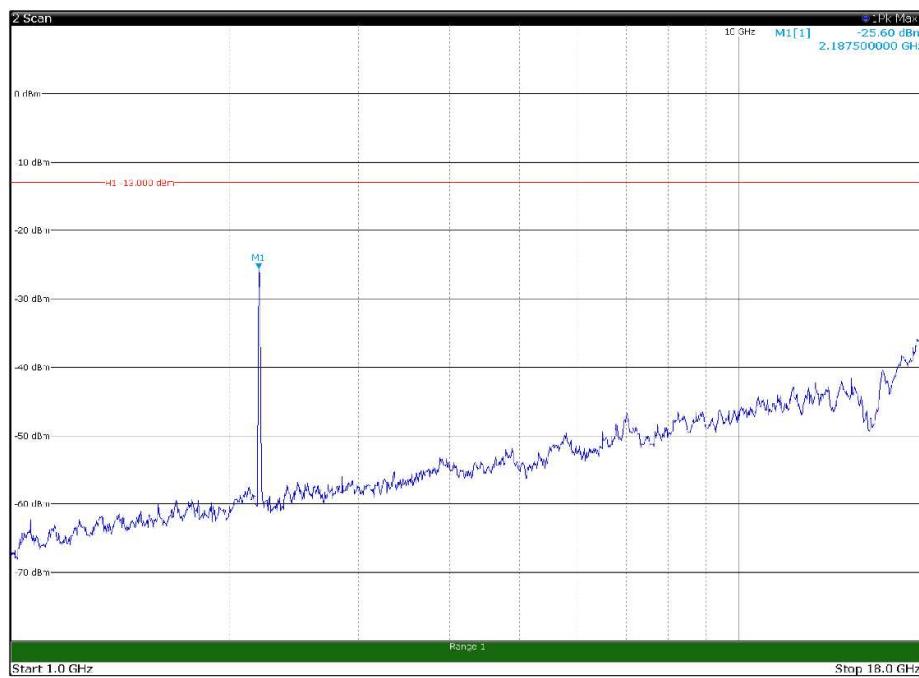
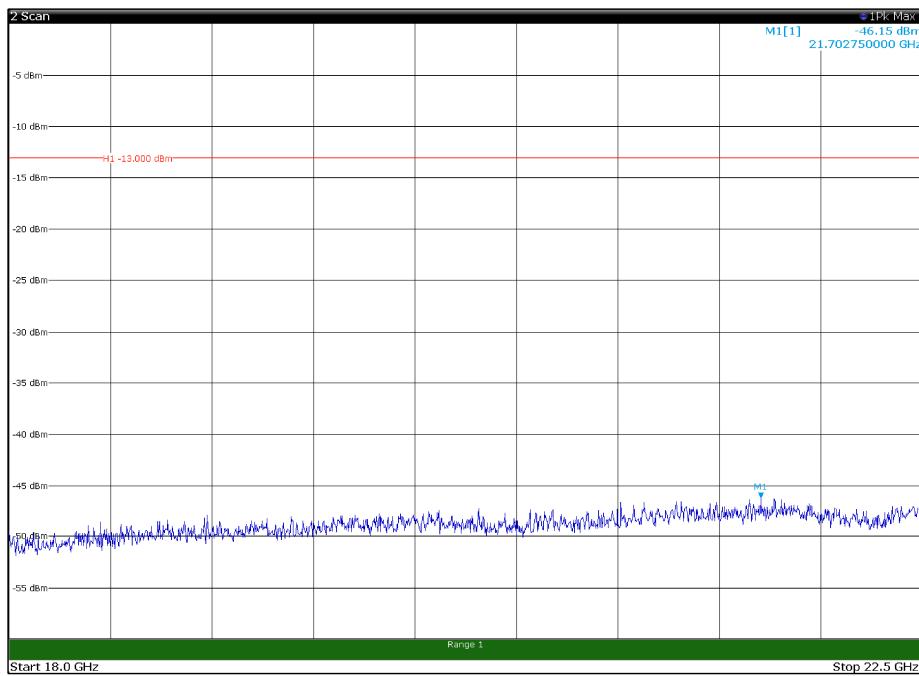


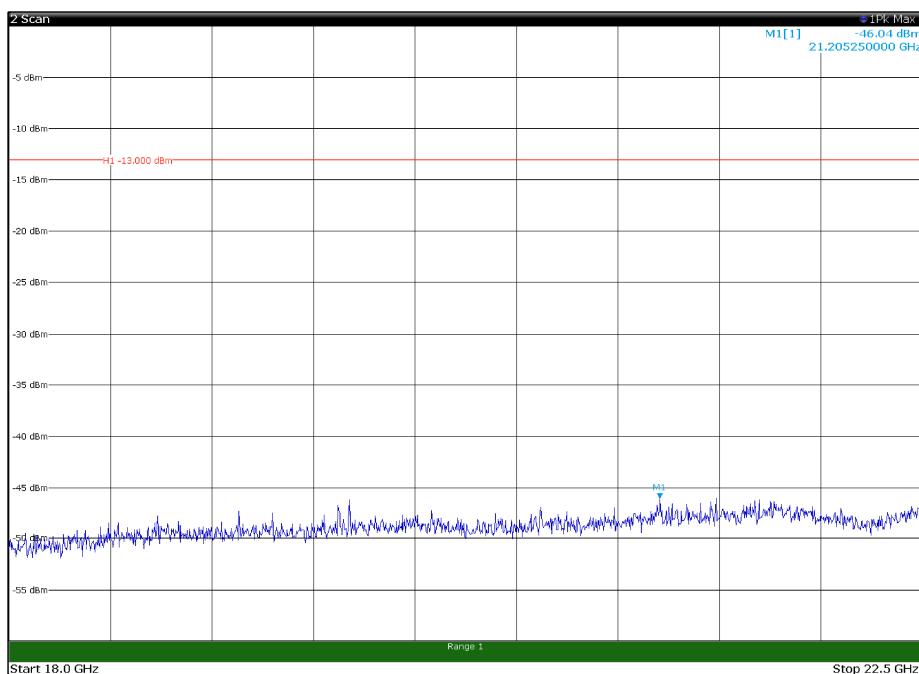
Channel: TOP, Modulation: 256QAM,
BW=15MHz, Range: 1GHz - 18GHz, Polarization: Horizontal



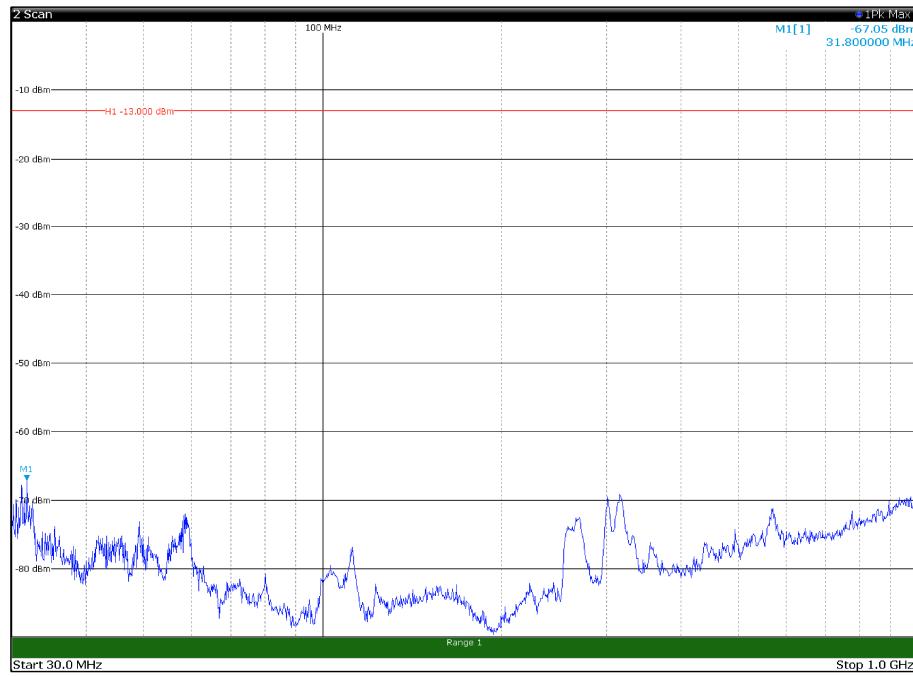
Channel: TOP, Modulation: 256QAM,
BW=15MHz, Range: 1GHz - 18GHz, Polarization: Vertical



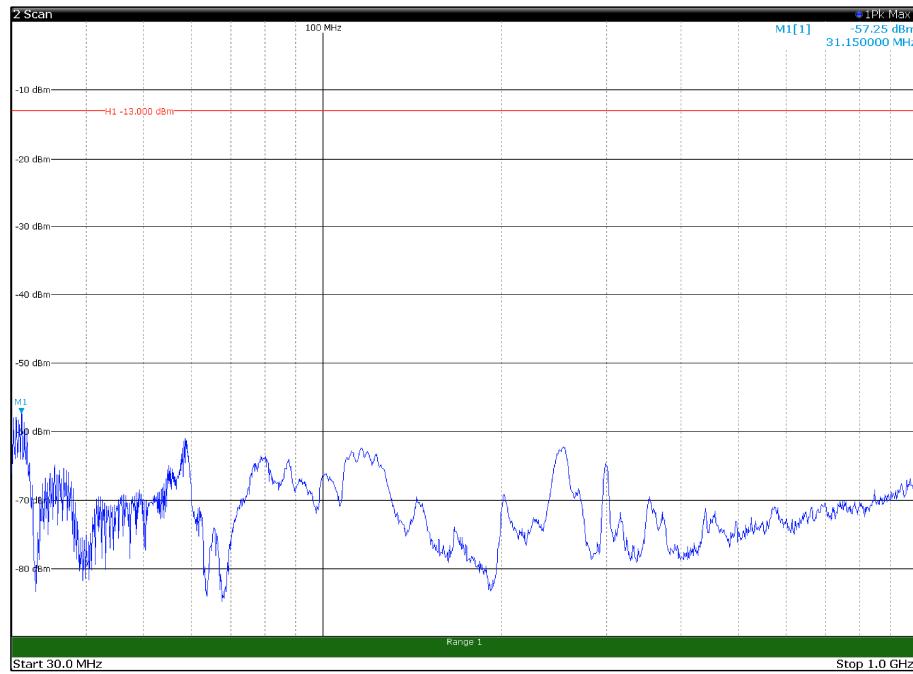
Channel: TOP, Modulation: 256QAM,
BW=15MHz, Range: 18GHz - 22.5GHz, Polarization: Horizontal



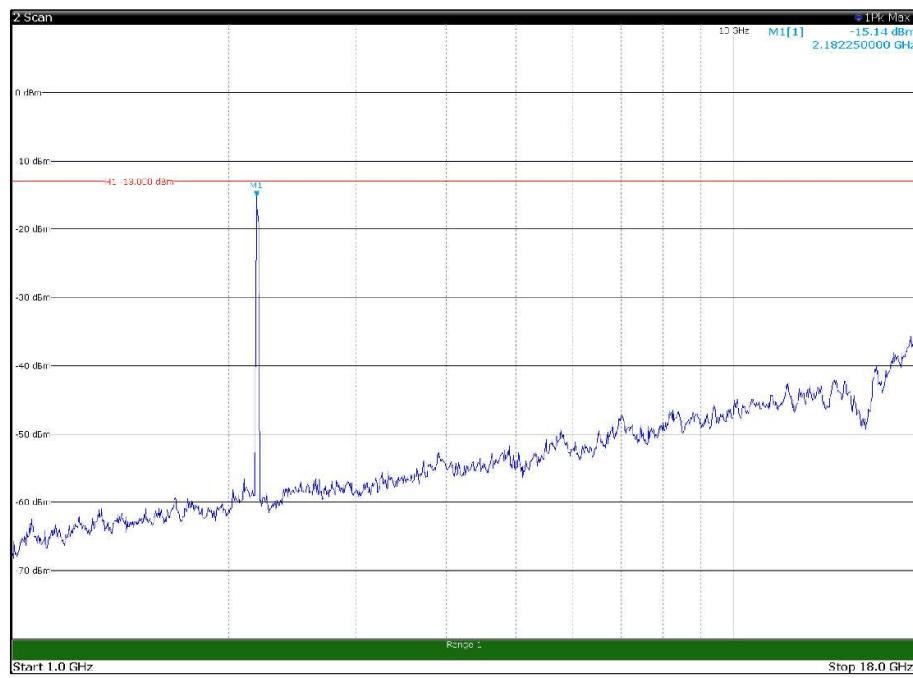
Channel: TOP, Modulation: 256QAM,
BW=15MHz, Range: 18GHz - 22.5GHz, Polarization: Vertical



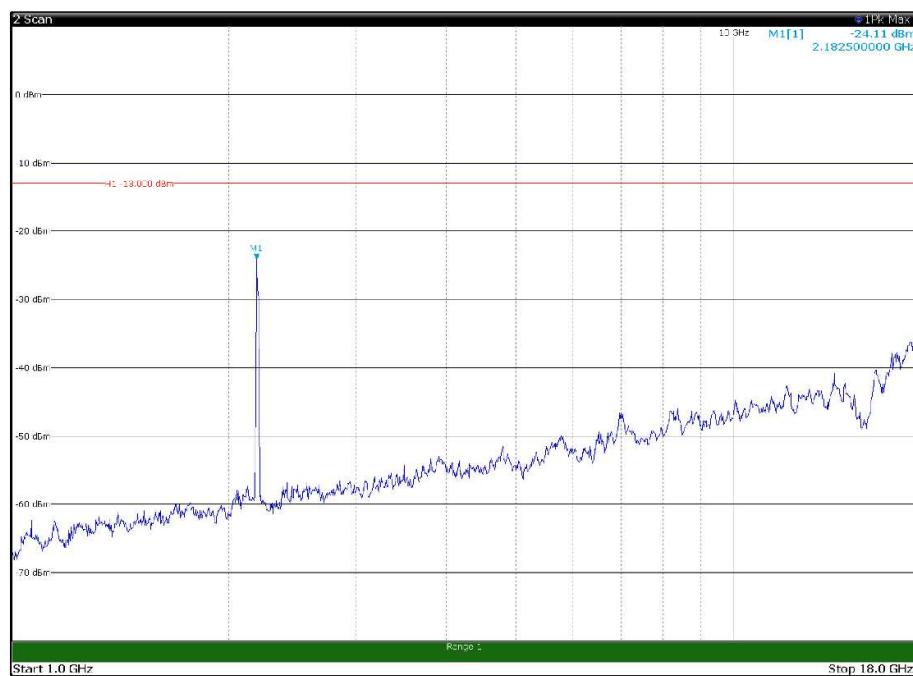
Channel: MIDDLE, Modulation: QPSK,
BW=20MHz, Range: 30MHz - 1GHz, Polarization: Horizontal



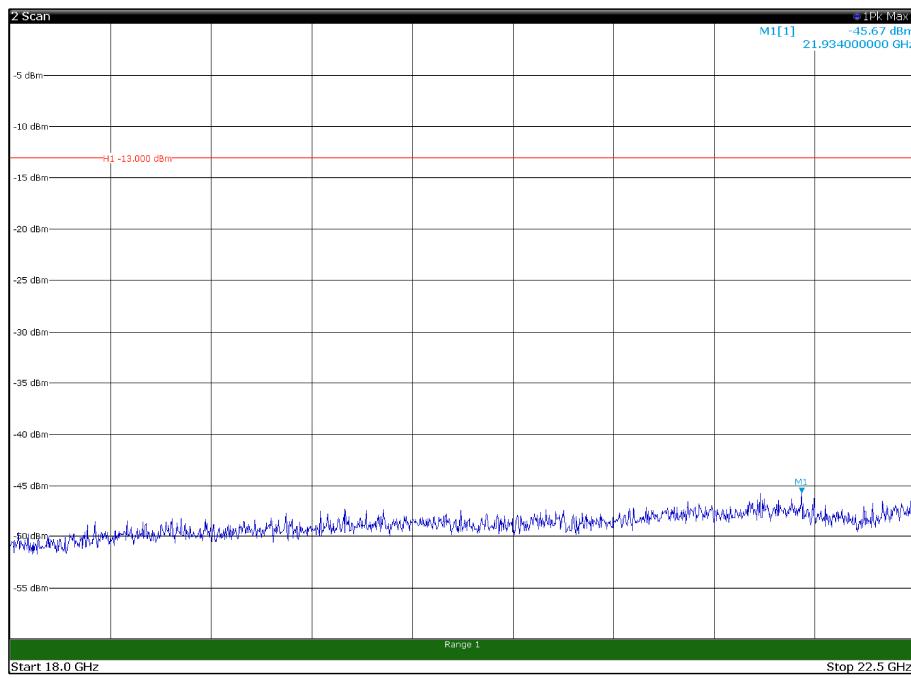
Channel: MIDDLE, Modulation: QPSK,
BW=20MHz, Range: 30MHz - 1GHz, Polarization: Vertical



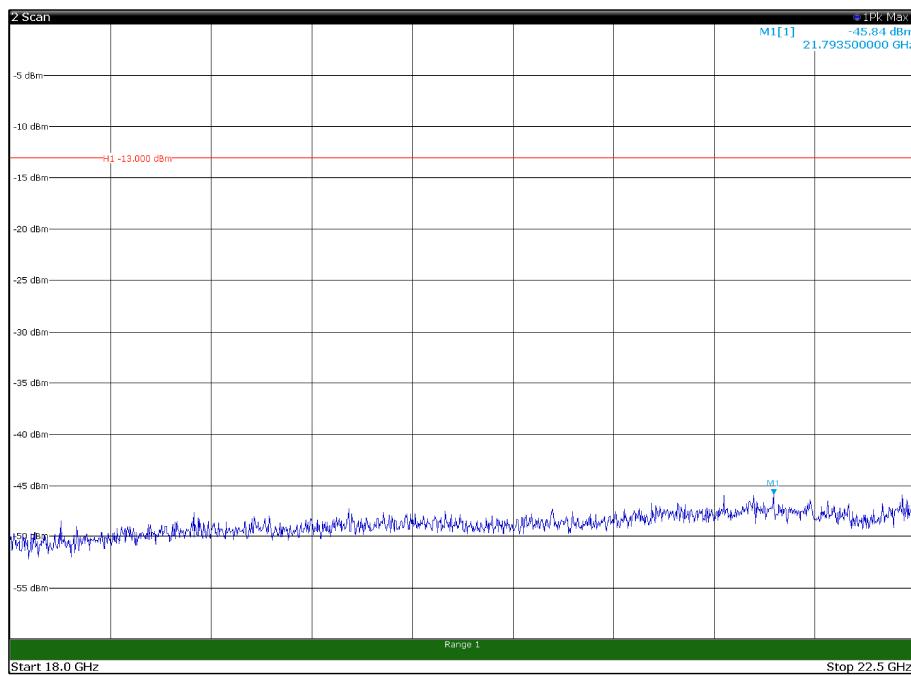
Channel: MIDDLE, Modulation: QPSK,
BW=20MHz, Range: 1GHz - 18GHz, Polarization: Horizontal



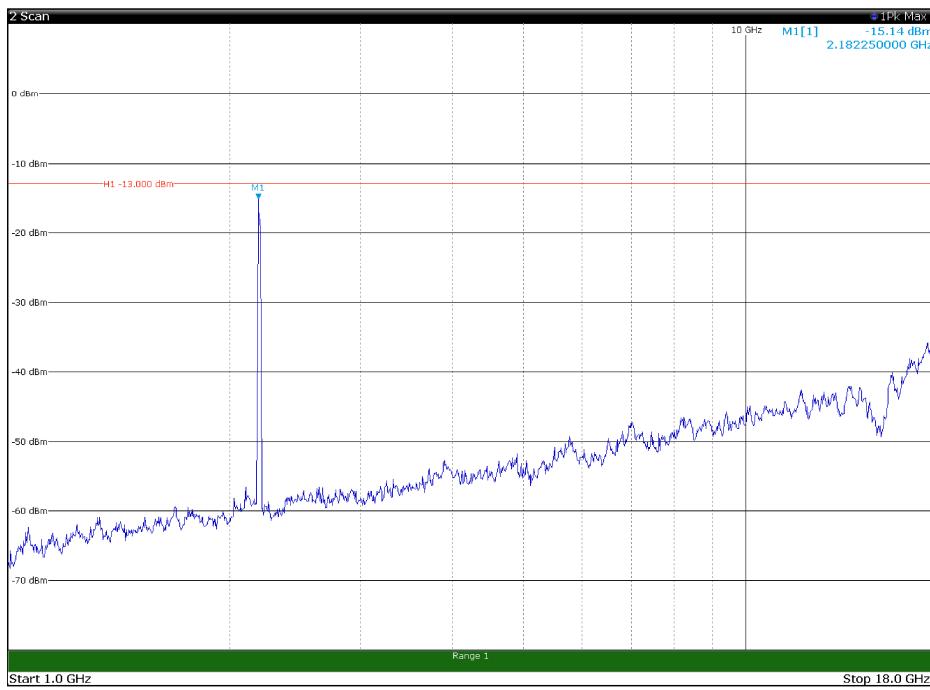
Channel: MIDDLE, Modulation: QPSK,
BW=20MHz, Range: 1GHz - 18GHz, Polarization: Vertical



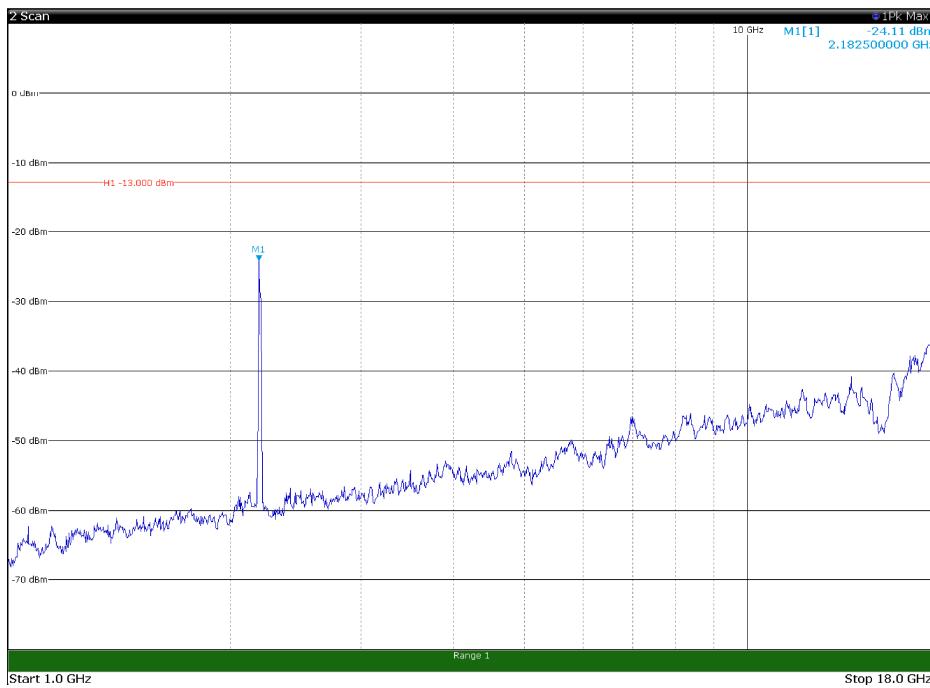
Channel: MIDDLE, Modulation: QPSK,
 BW=20MHz, Range: 18GHz - 22.5GHz, Polarization: Horizontal



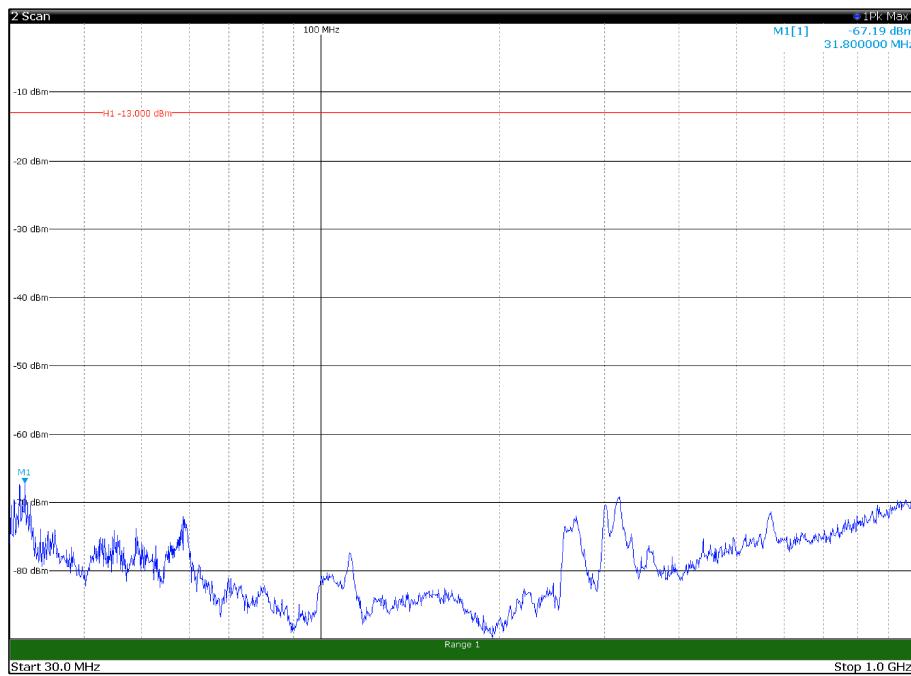
Channel: MIDDLE, Modulation: QPSK,
 BW=20MHz, Range: 18GHz - 22.5GHz, Polarization: Vertical



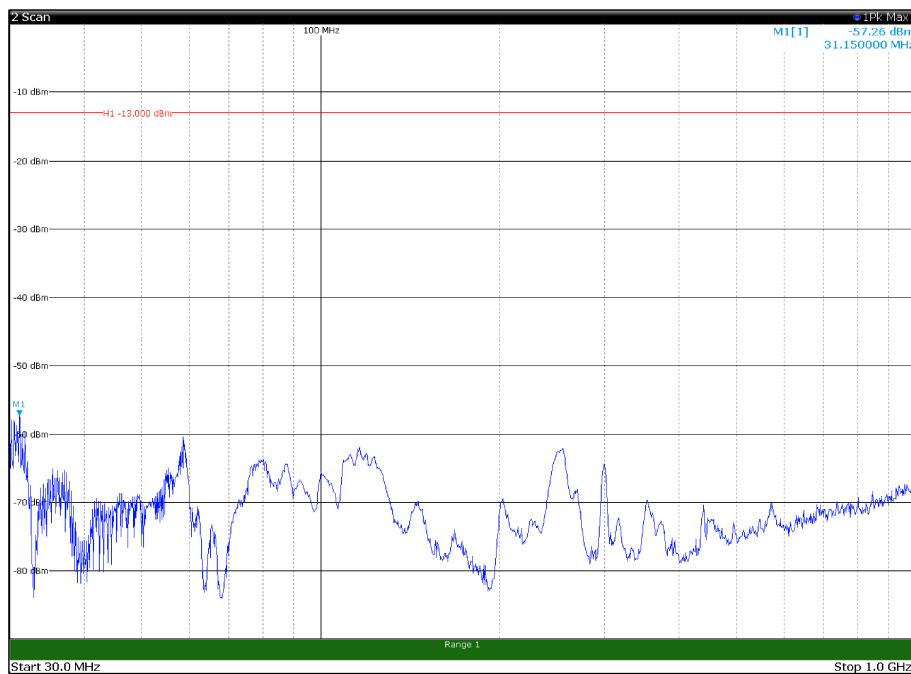
Channel: TOP, Modulation: QPSK,
 BW=20MHz, Range: 1GHz - 18GHz, Polarization: Horizontal



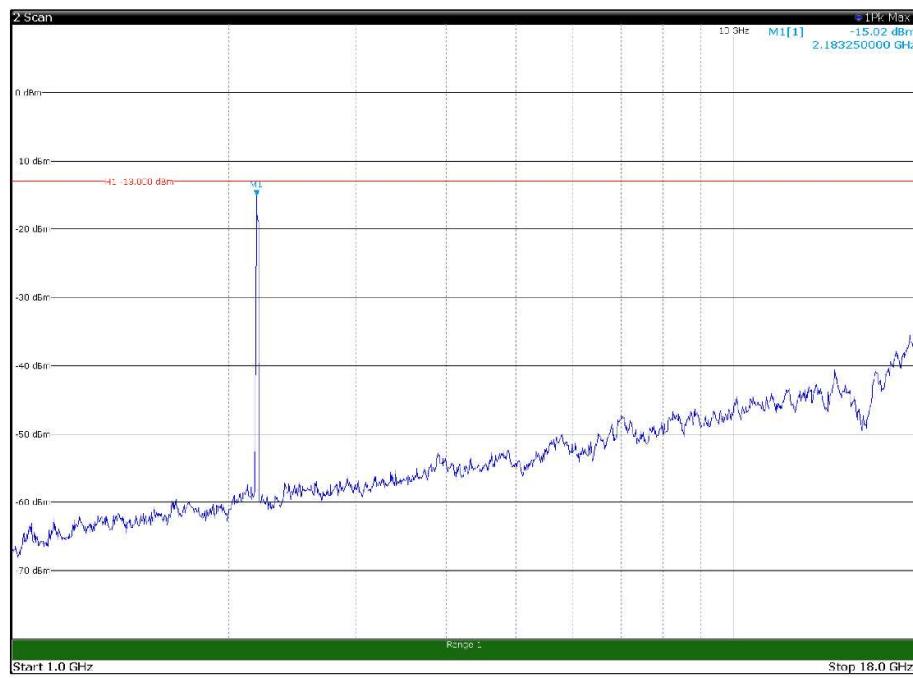
Channel: TOP, Modulation: QPSK,
 BW=20MHz, Range: 1GHz - 18GHz, Polarization: Vertical



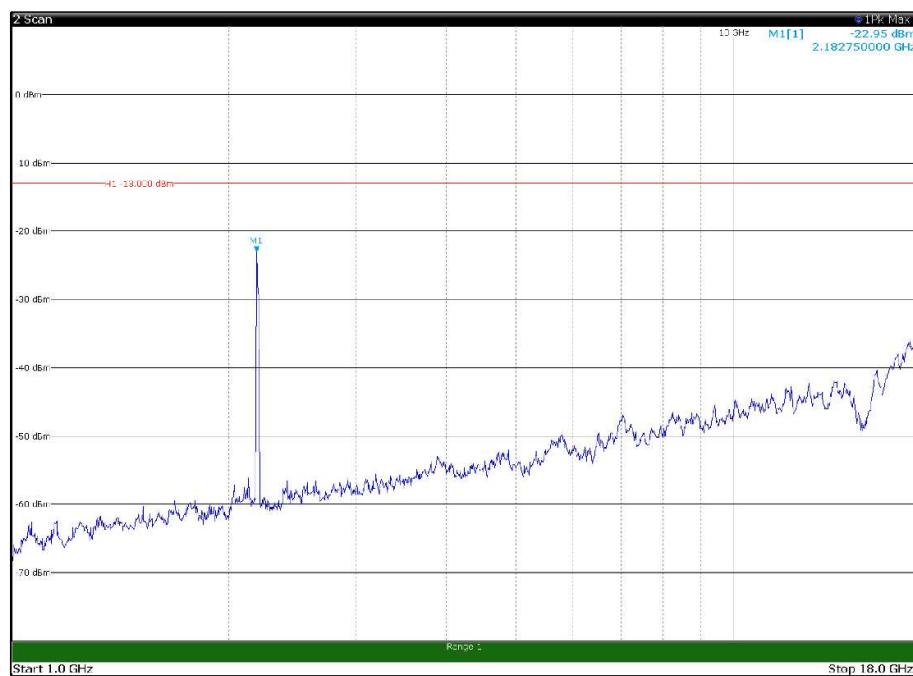
Channel: MIDDLE, Modulation: 16QAM,
BW=20MHz, Range: 30MHz - 1GHz, Polarization: Horizontal



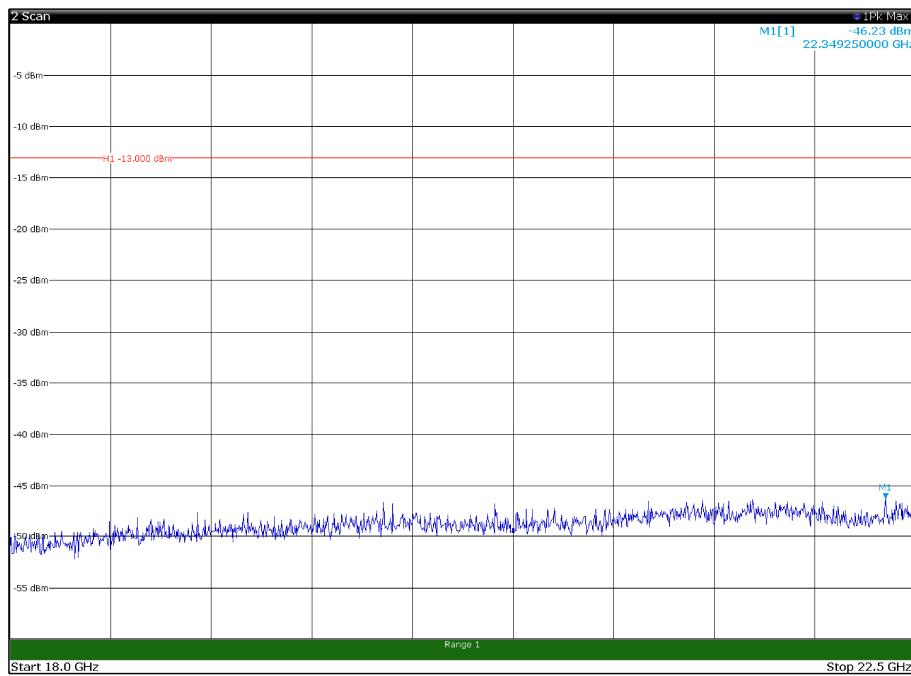
Channel: MIDDLE, Modulation: 16QAM,
BW=20MHz, Range: 30MHz - 1GHz, Polarization: Vertical



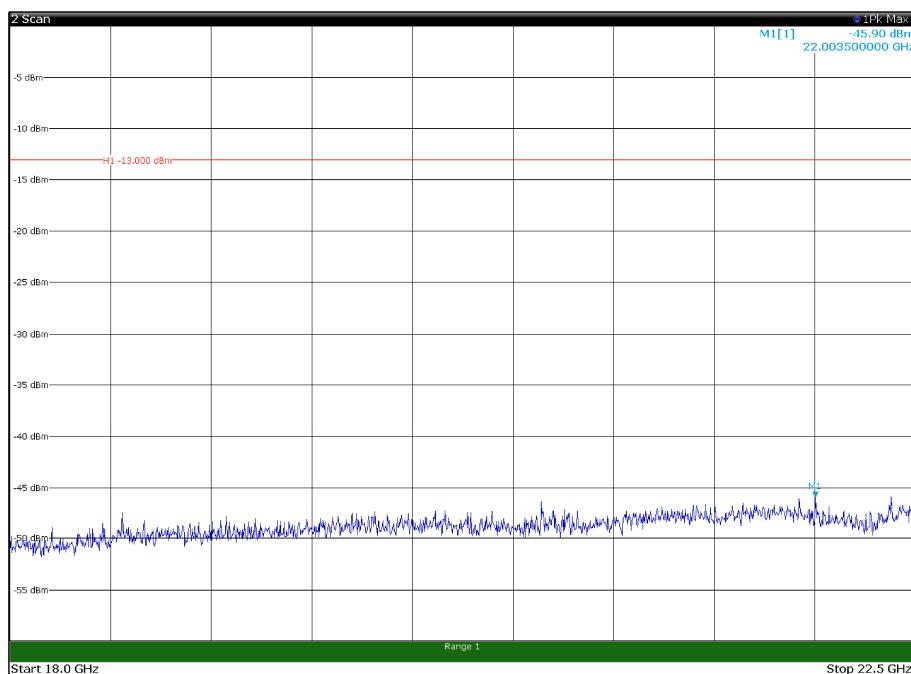
Channel: MIDDLE, Modulation: 16QAM,
BW=20MHz, Range: 1GHz - 18GHz, Polarization: Horizontal



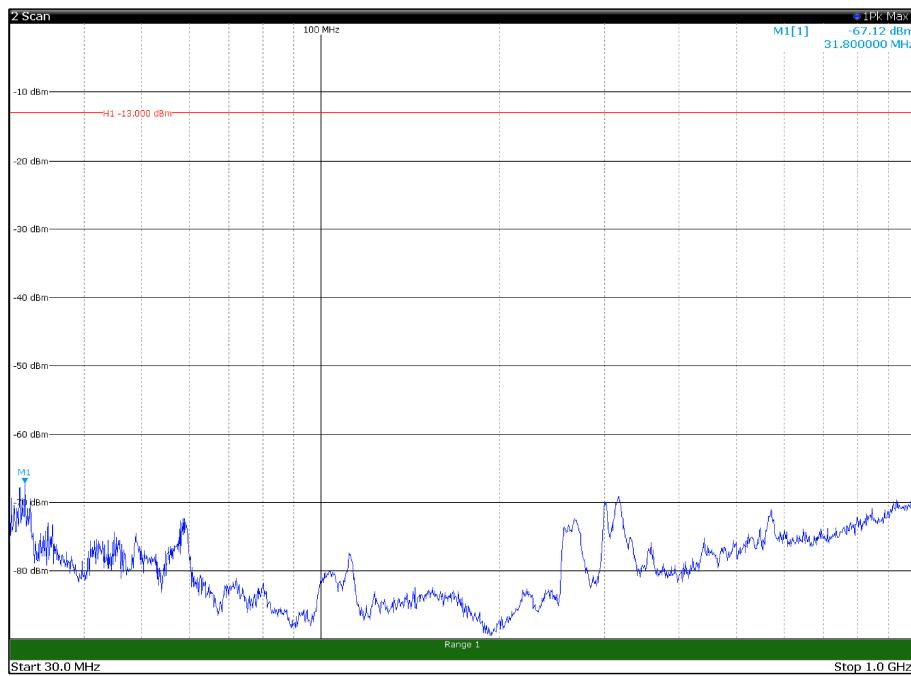
Channel: MIDDLE, Modulation: 16QAM,
BW=20MHz, Range: 1GHz - 18GHz, Polarization: Vertical



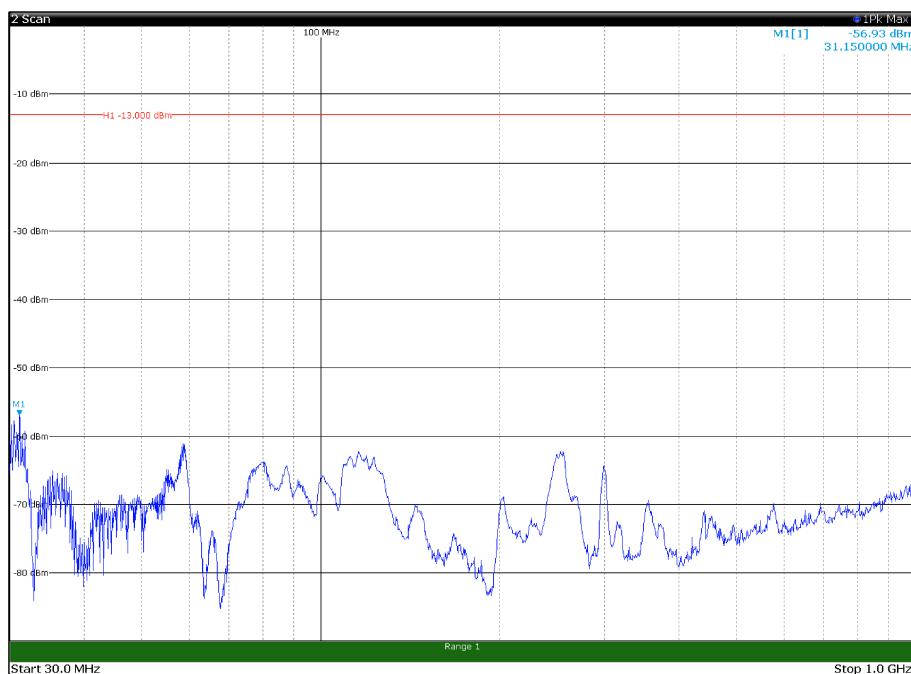
Channel: MIDDLE, Modulation: 16QAM,
 BW=20MHz, Range: 18GHz - 22.5GHz, Polarization: Horizontal



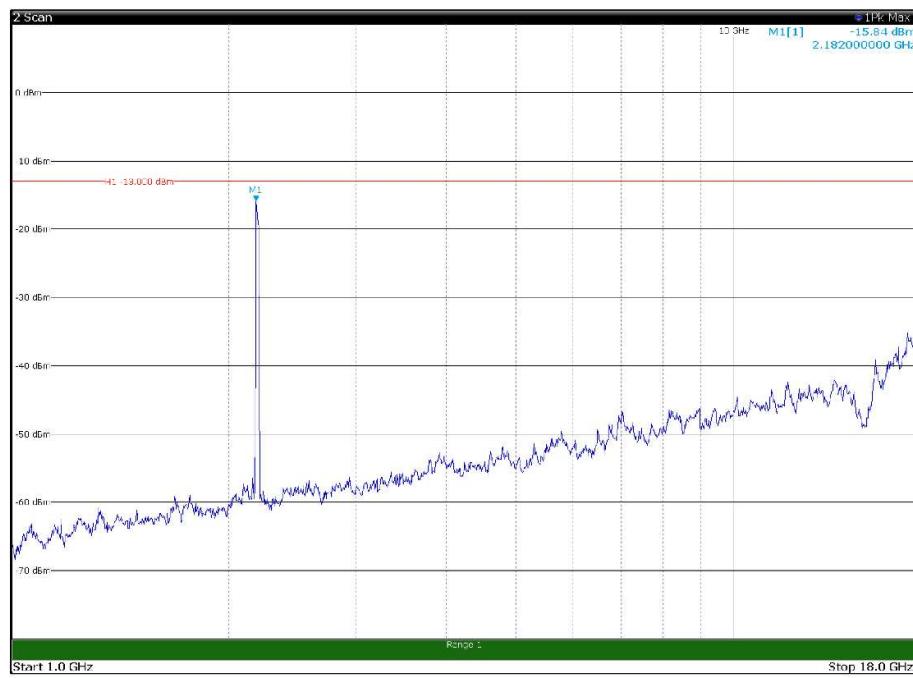
Channel: MIDDLE, Modulation: 16QAM,
 BW=20MHz, Range: 18GHz - 22.5GHz, Polarization: Vertical



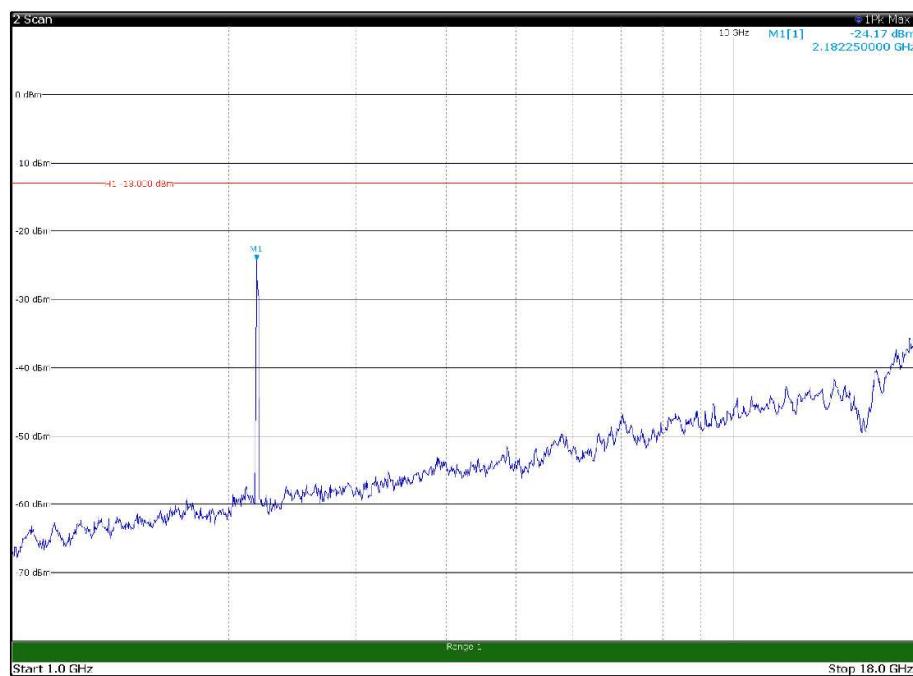
Channel: MIDDLE, Modulation: 64QAM,
BW=20MHz, Range: 30MHz - 1GHz, Polarization: Horizontal



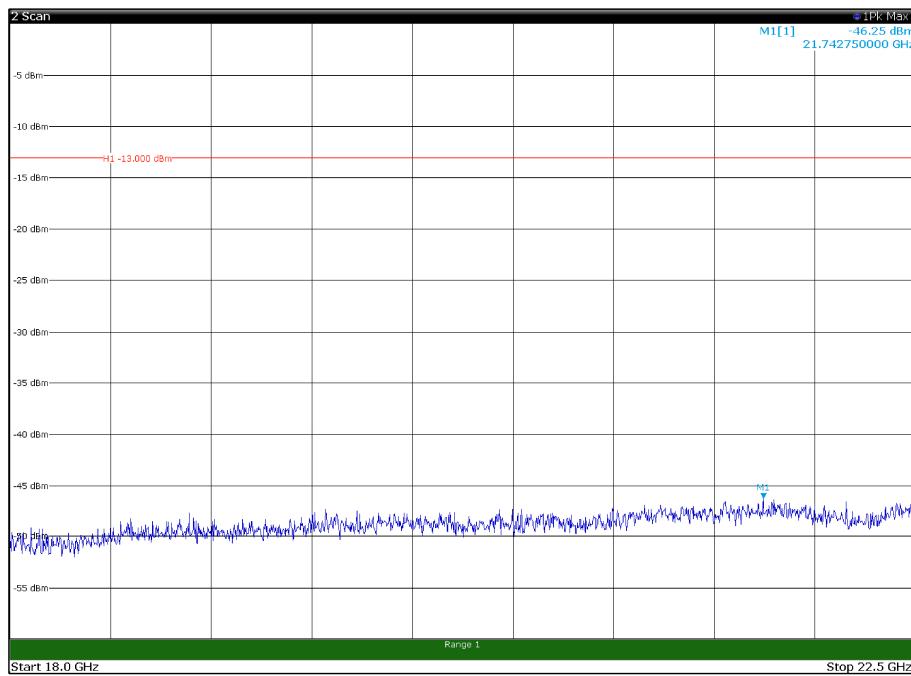
Channel: MIDDLE, Modulation: 64QAM,
BW=20MHz, Range: 30MHz - 1GHz, Polarization: Vertical



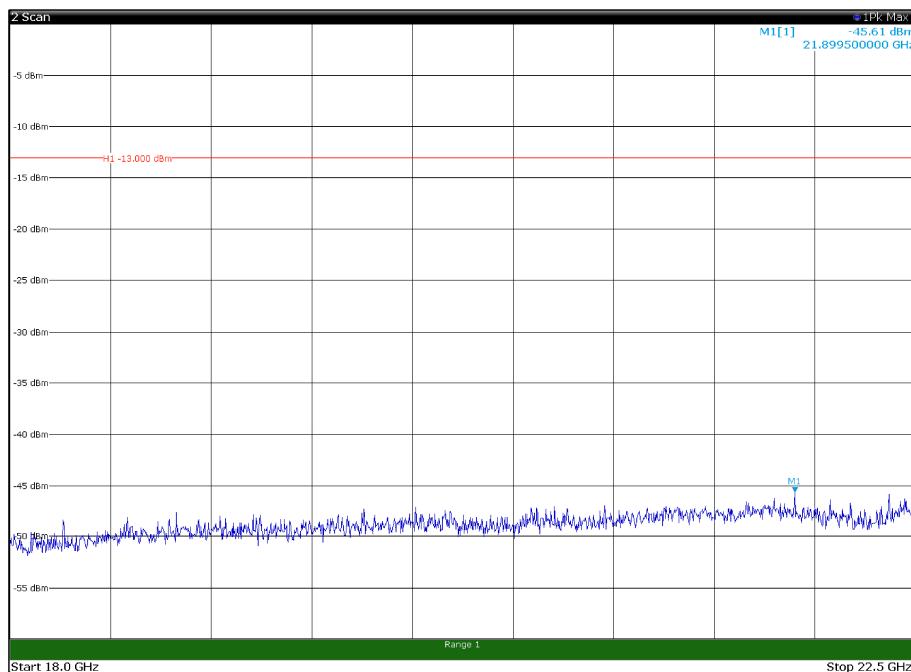
Channel: MIDDLE, Modulation: 64QAM,
BW=20MHz, Range: 1GHz - 18GHz, Polarization: Horizontal



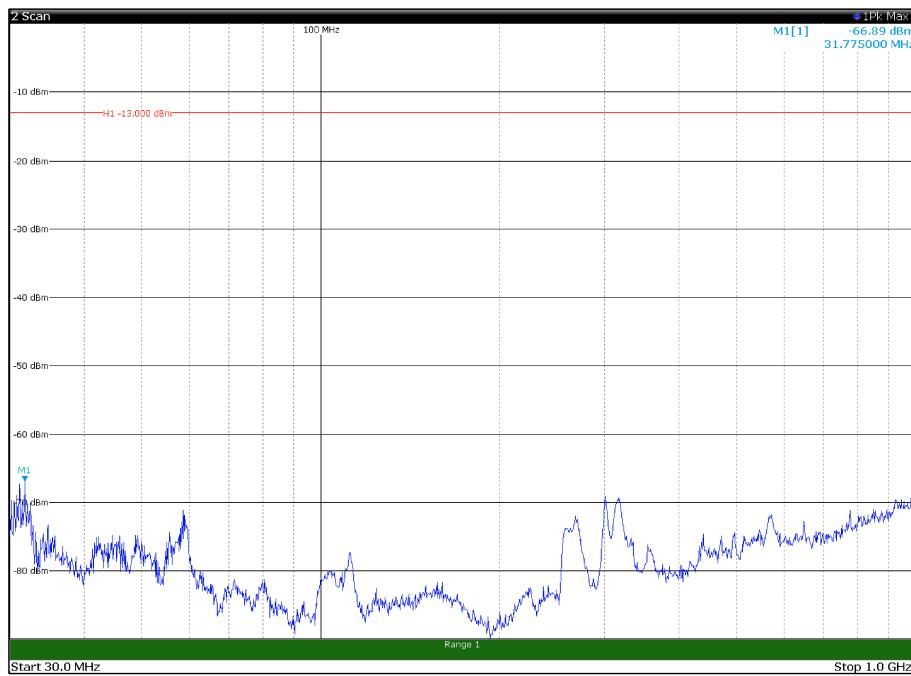
Channel: MIDDLE, Modulation: 64QAM,
BW=20MHz, Range: 1GHz - 18GHz, Polarization: Vertical



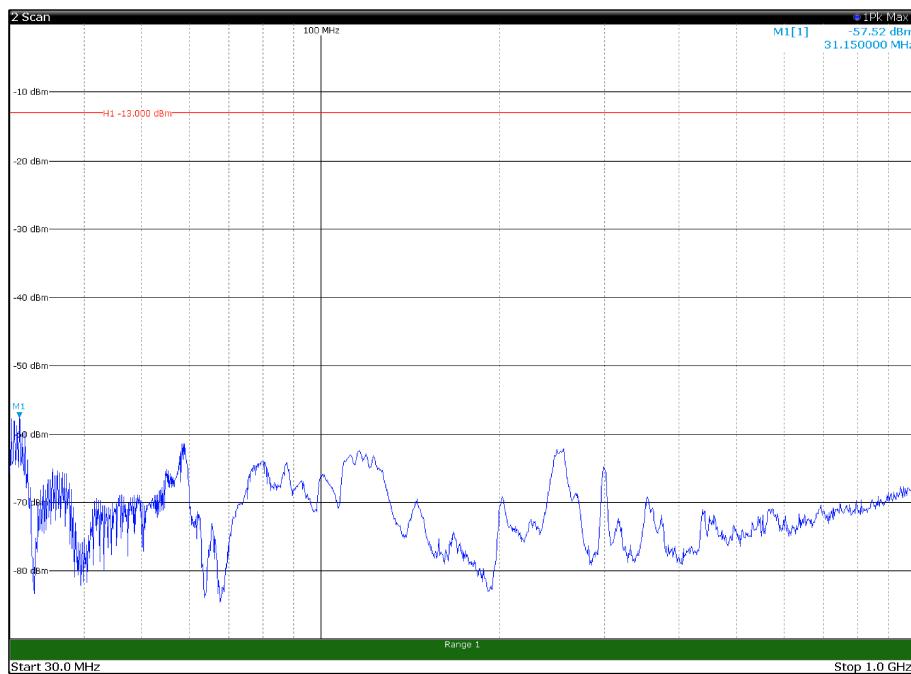
Channel: MIDDLE, Modulation: 64QAM,
 BW=20MHz, Range: 18GHz - 22.5GHz, Polarization: Horizontal



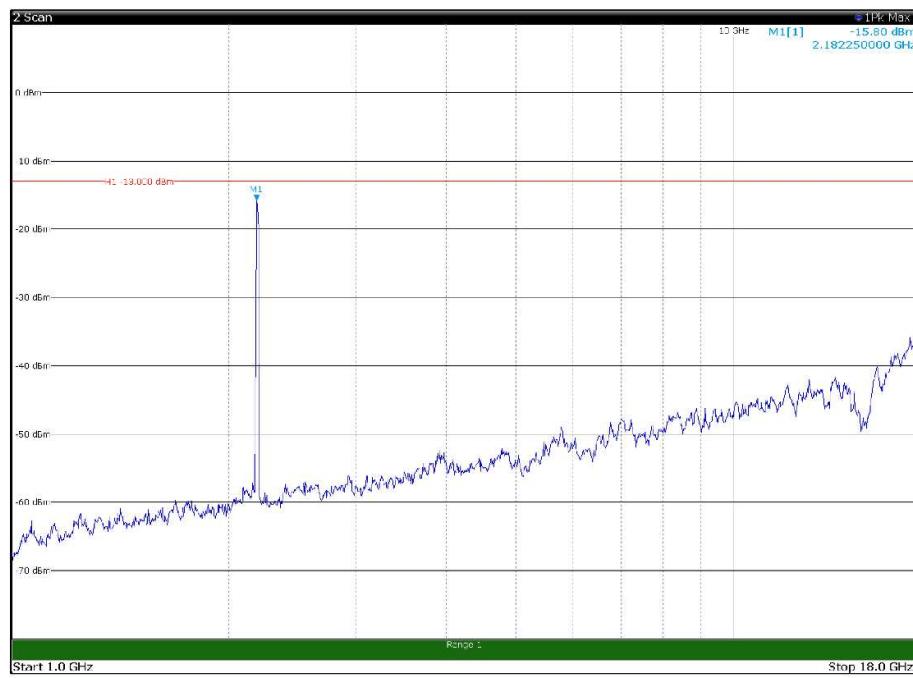
Channel: MIDDLE, Modulation: 64QAM,
 BW=20MHz, Range: 18GHz - 22.5GHz, Polarization: Vertical



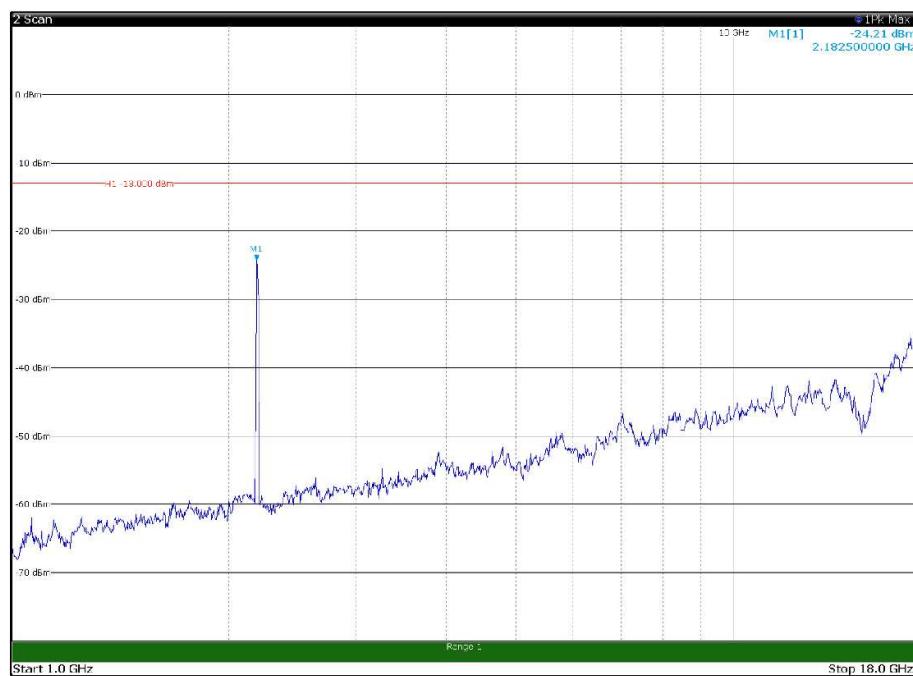
Channel: MIDDLE, Modulation: 256QAM,
 BW=20MHz, Range: 30MHz - 1GHz, Polarization: Horizontal



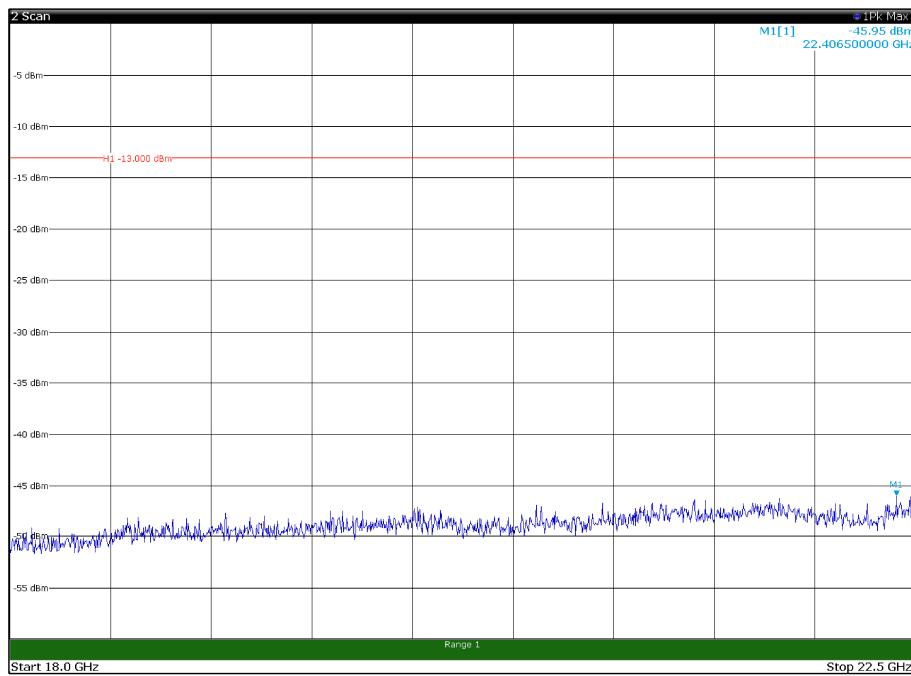
Channel: MIDDLE, Modulation: 256QAM,
 BW=20MHz, Range: 30MHz - 1GHz, Polarization: Vertical



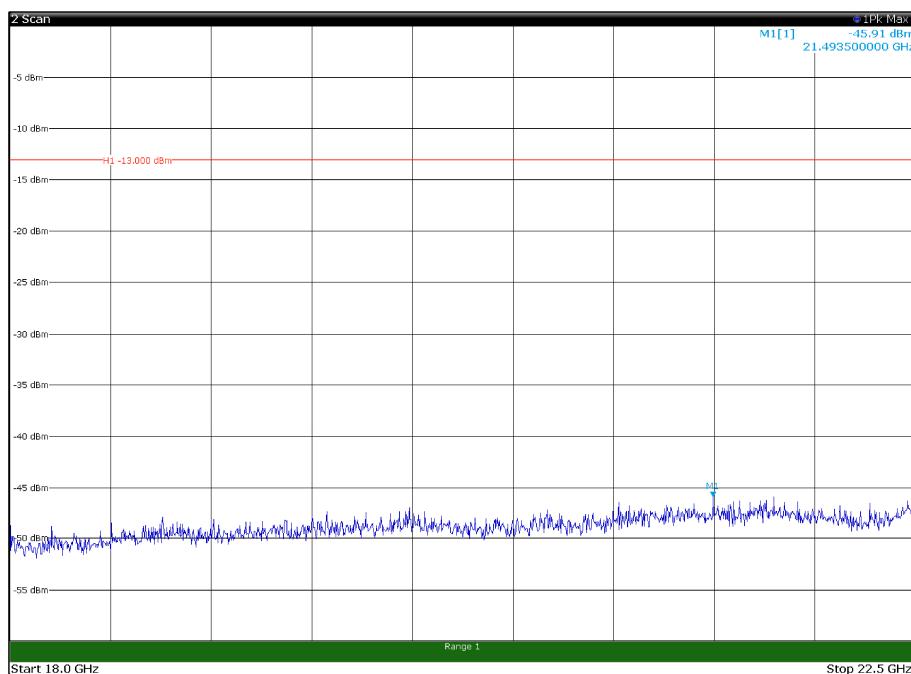
Channel: MIDDLE, Modulation: 256QAM,
BW=20MHz, Range: 1GHz - 18GHz, Polarization: Horizontal



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



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

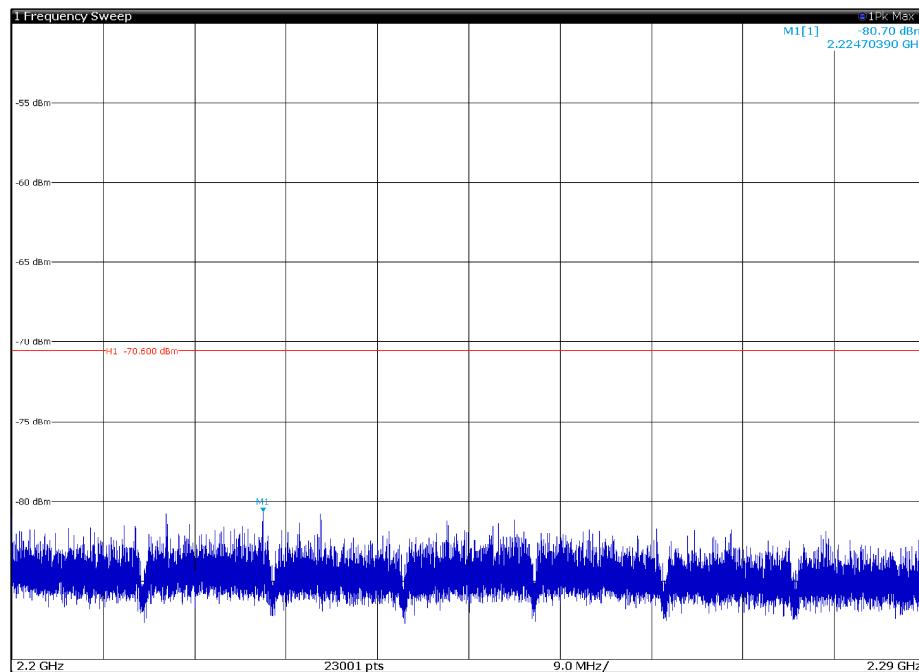


Channel: MIDDLE, Modulation: 256QAM,
 BW=20MHz, Range: 18GHz - 22.5GHz, Polarization: Vertical

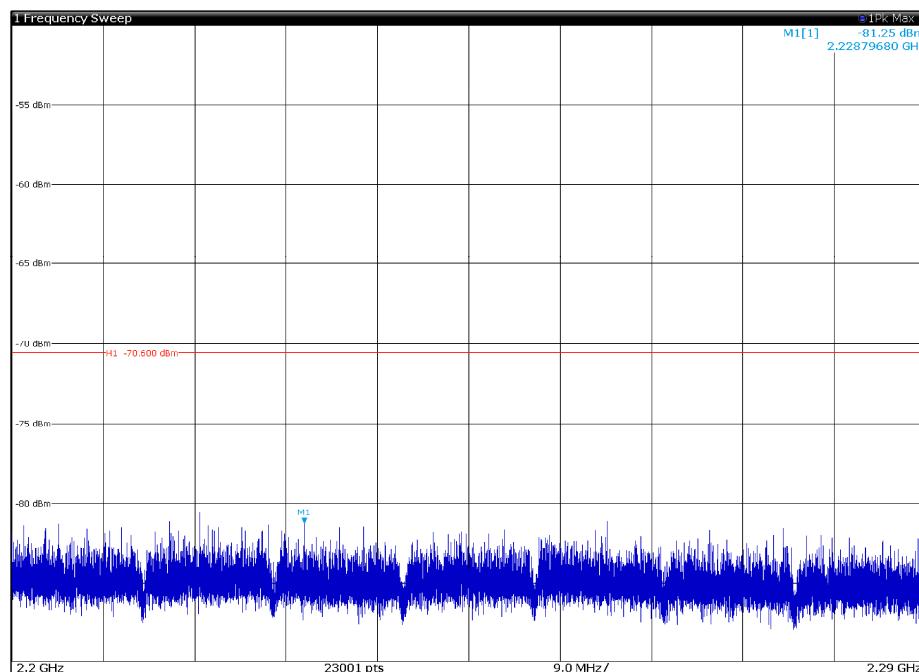
**Test data, continued: Radiated Spurious emissions, band 2200-2290MHz****Special notes**

For AWS-4 operations, the power of any emissions on all frequencies between 2200-2290MHz shall not exceed an EIRP of -100.6 dBW/4 kHz

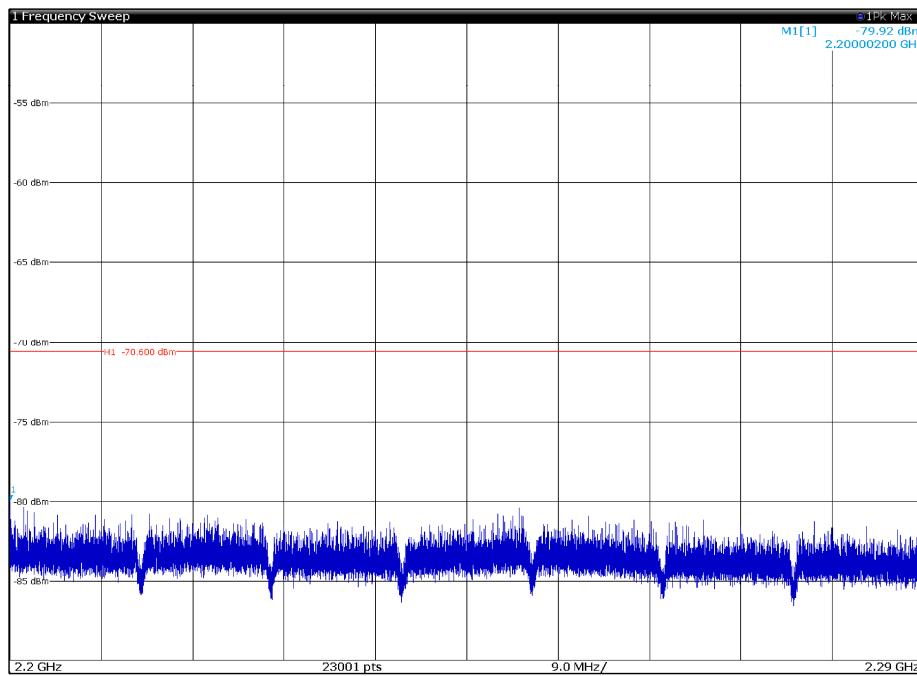
$$-100.6 \text{ dBW}/4 \text{ kHz} = -70.6 \text{ dBm}/4 \text{ kHz}$$



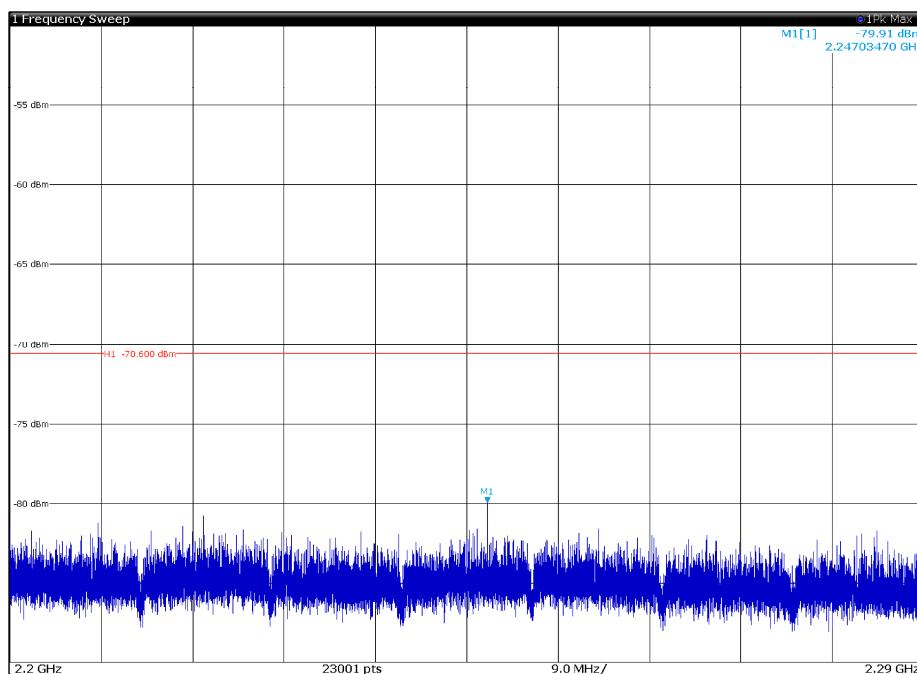
Channel: BOTTOM, Modulation: QPSK,
BW=5MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



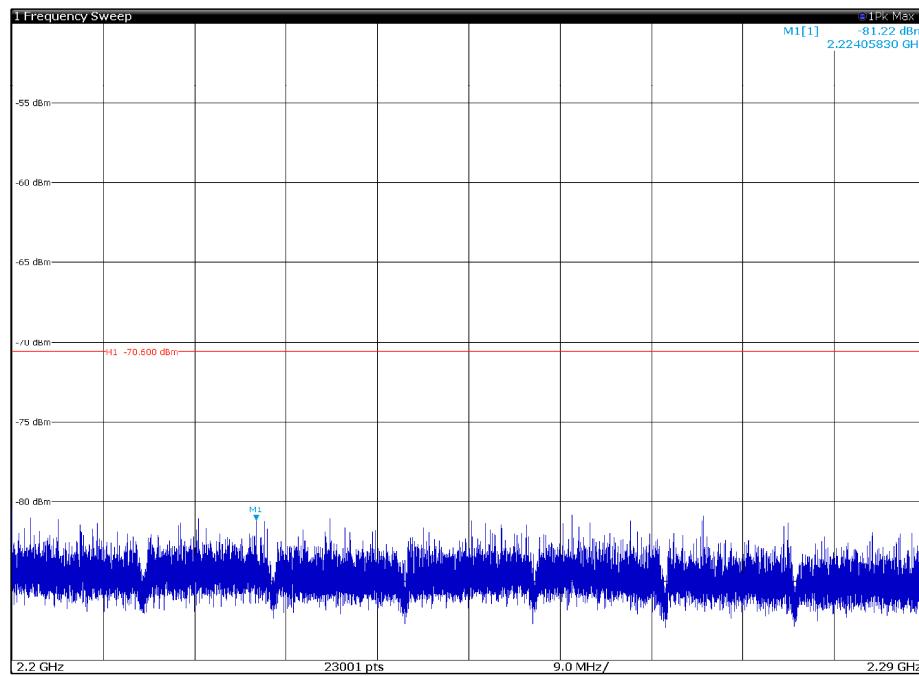
Channel: BOTTOM, Modulation: QPSK,
BW=5MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



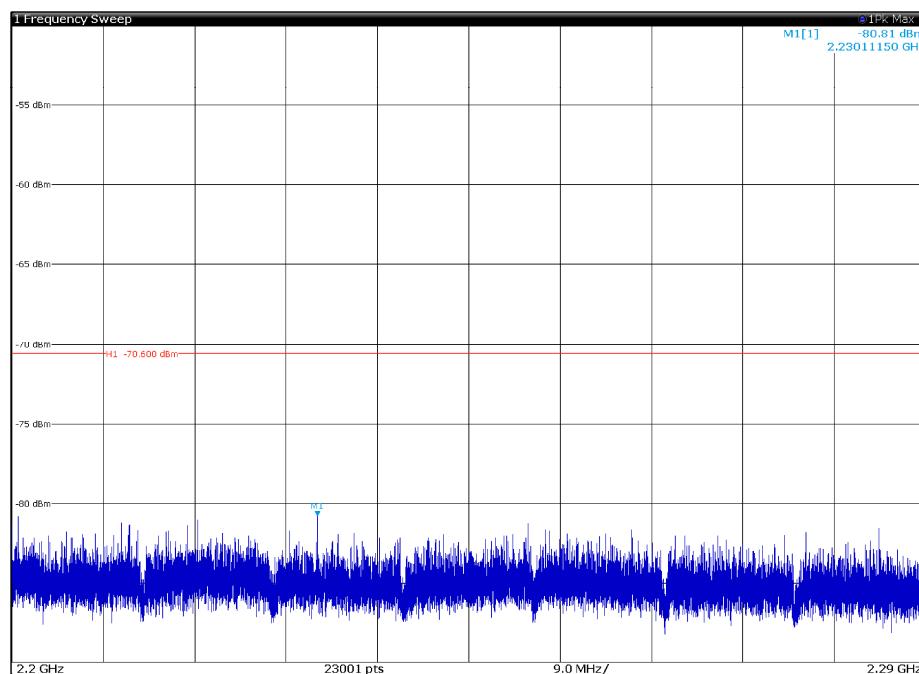
Channel: BOTTOM, Modulation: 16QAM,
BW=5MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



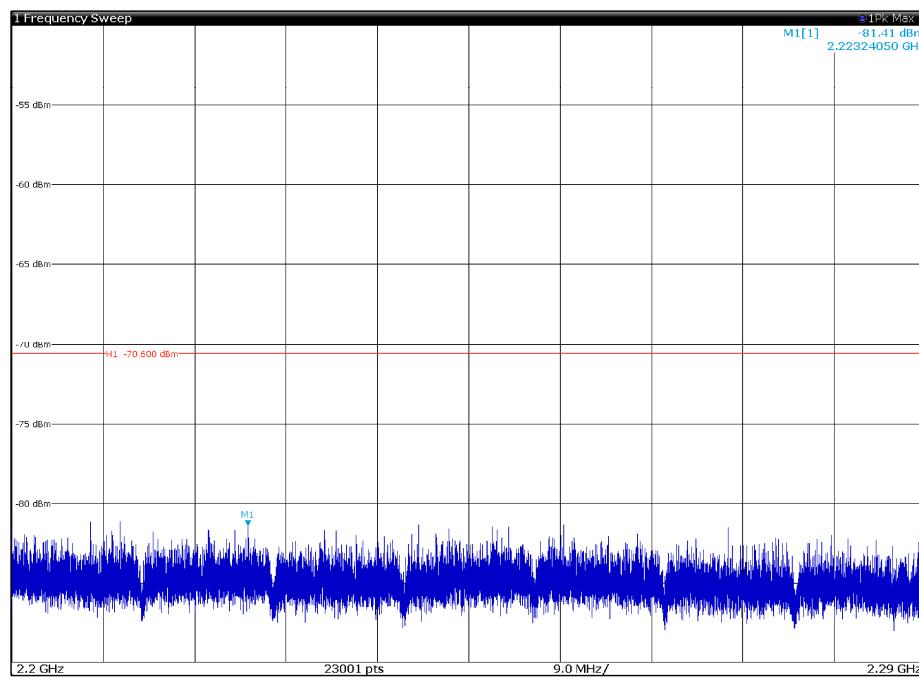
Channel: BOTTOM, Modulation: 16QAM,
BW=5MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



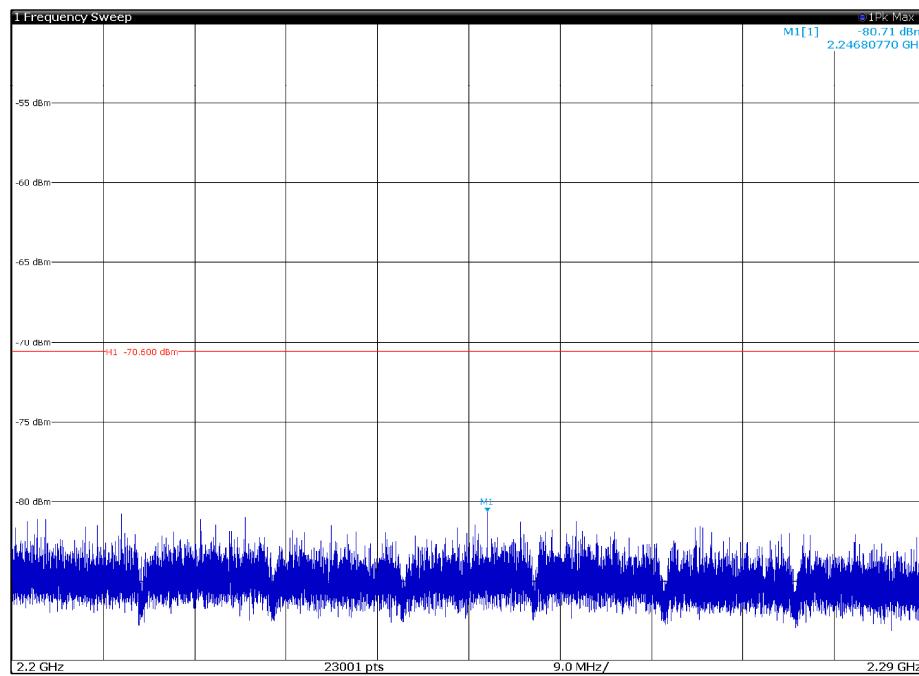
Channel: BOTTOM, Modulation: 64QAM,
BW=5MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



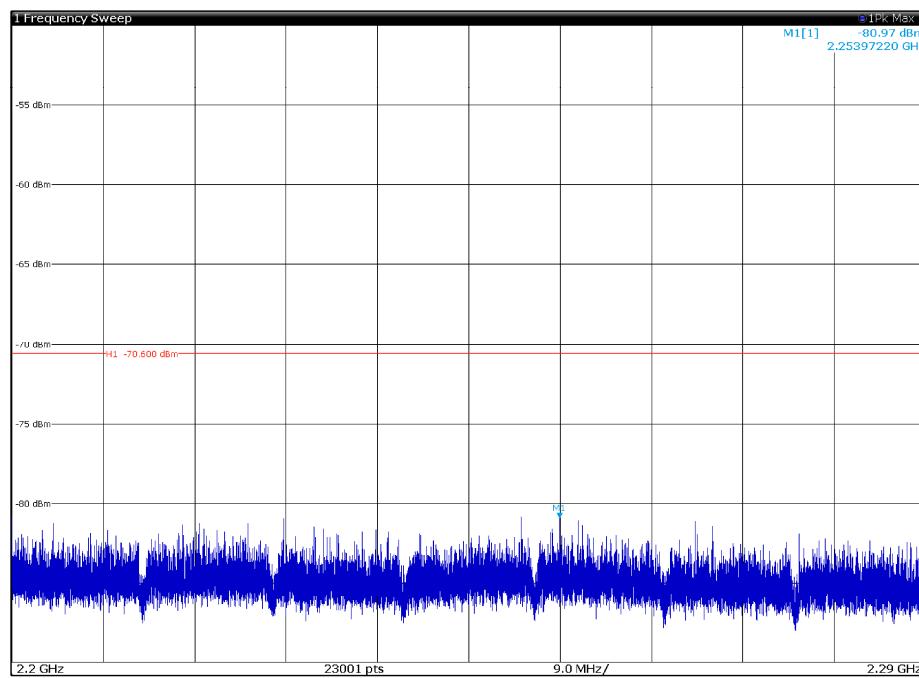
Channel: BOTTOM, Modulation: 64QAM,
BW=5MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



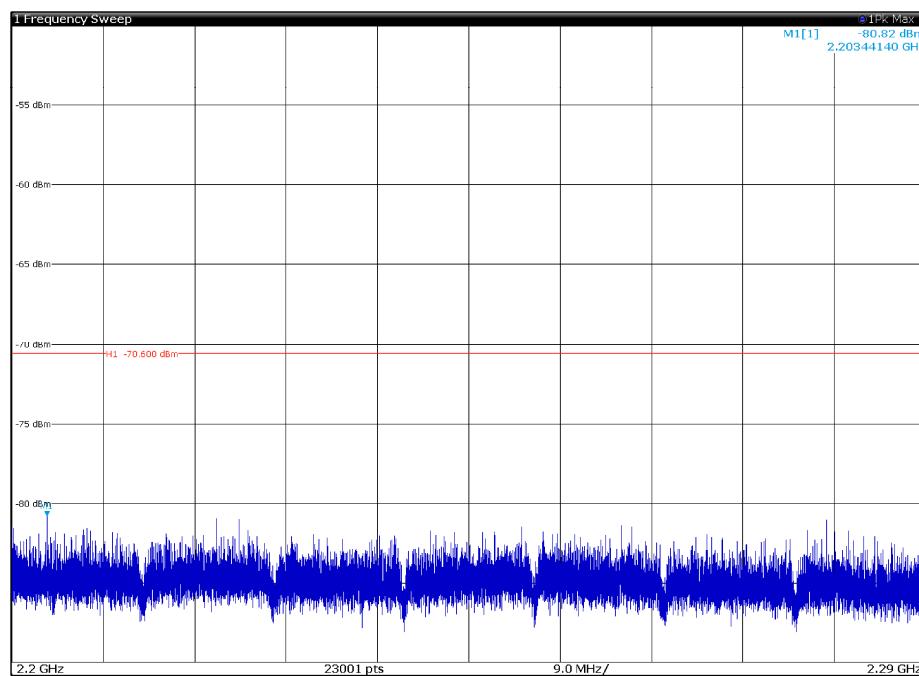
Channel: BOTTOM, Modulation: 256QAM,
BW=5MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



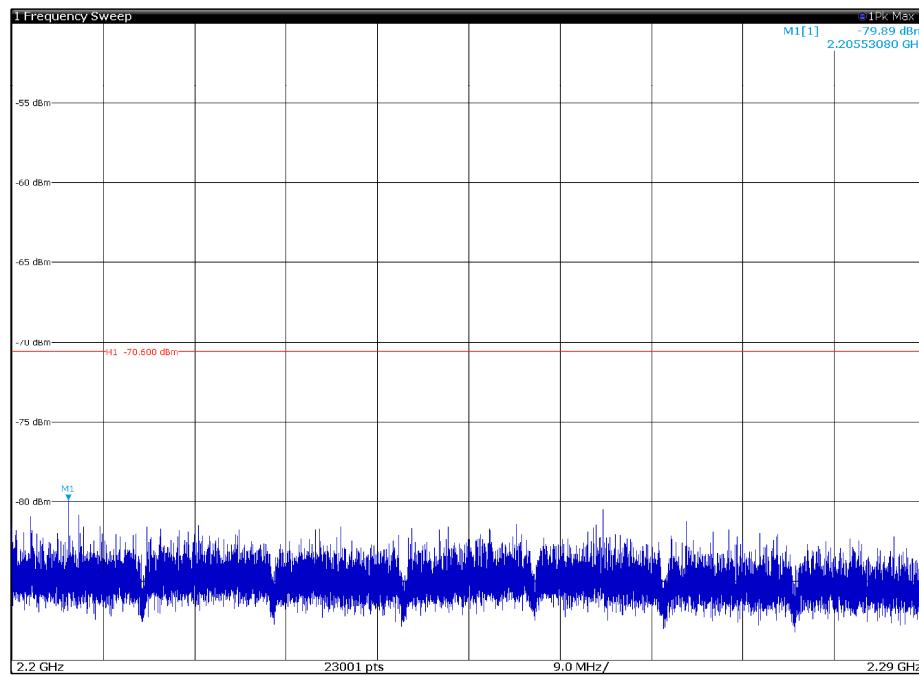
Channel: BOTTOM, Modulation: 256QAM,
BW=5MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



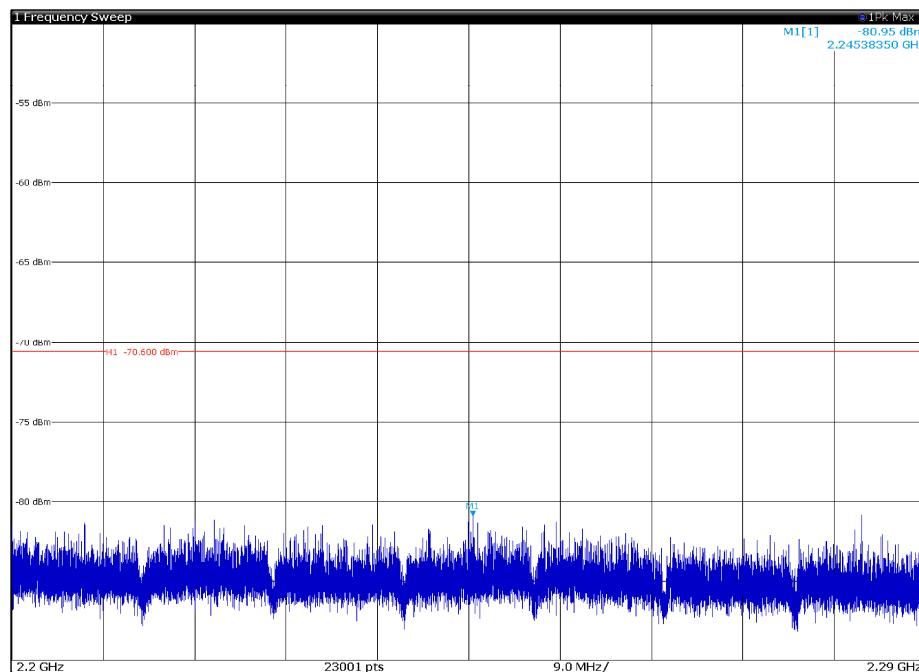
Channel: MIDDLE, Modulation: QPSK,
BW=5MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



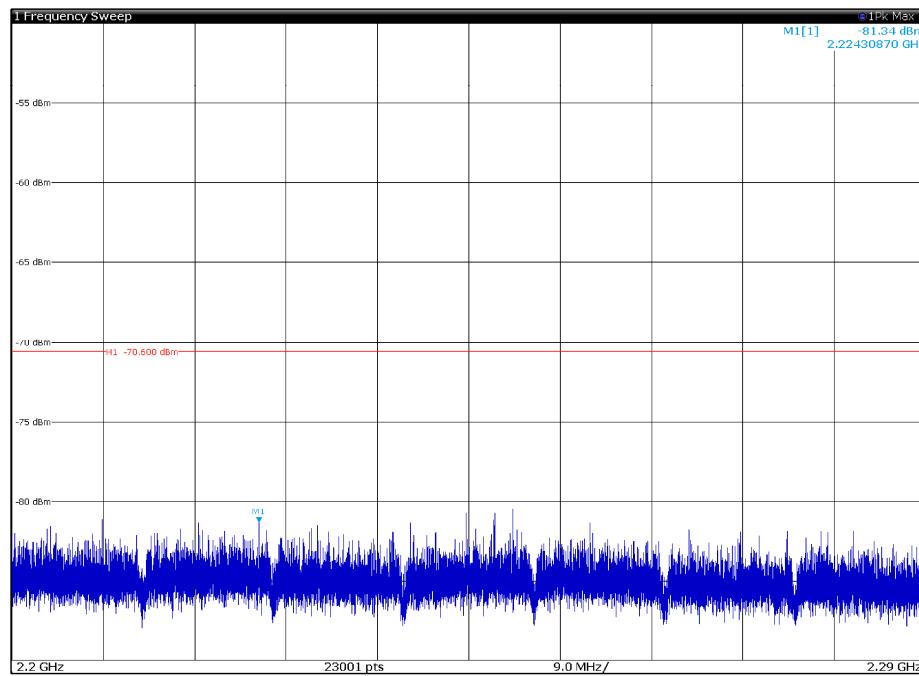
Channel: MIDDLE, Modulation: QPSK,
BW=5MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



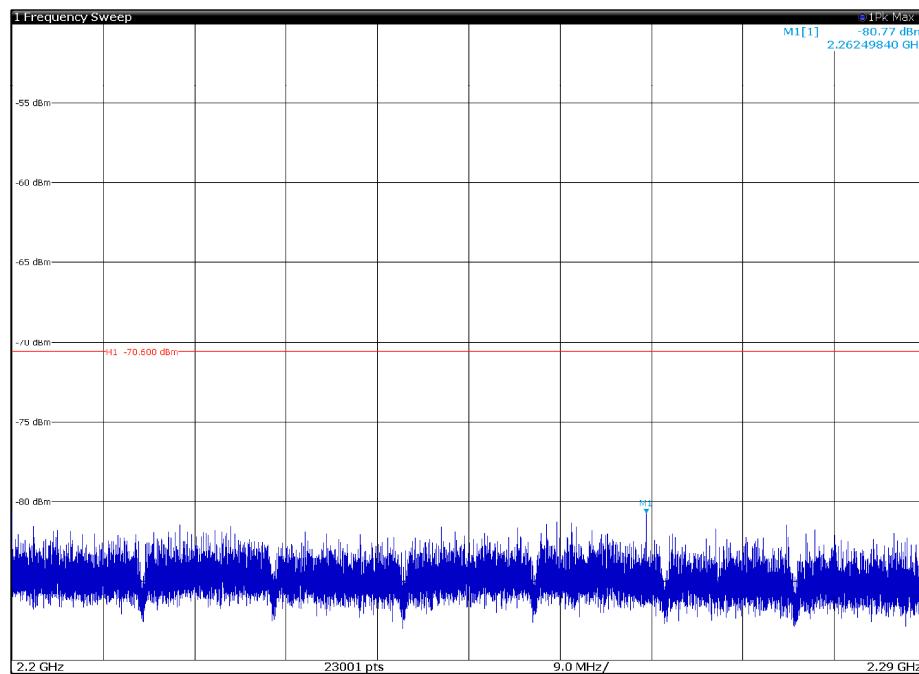
Channel: MIDDLE, Modulation: 16QAM,
BW=5MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



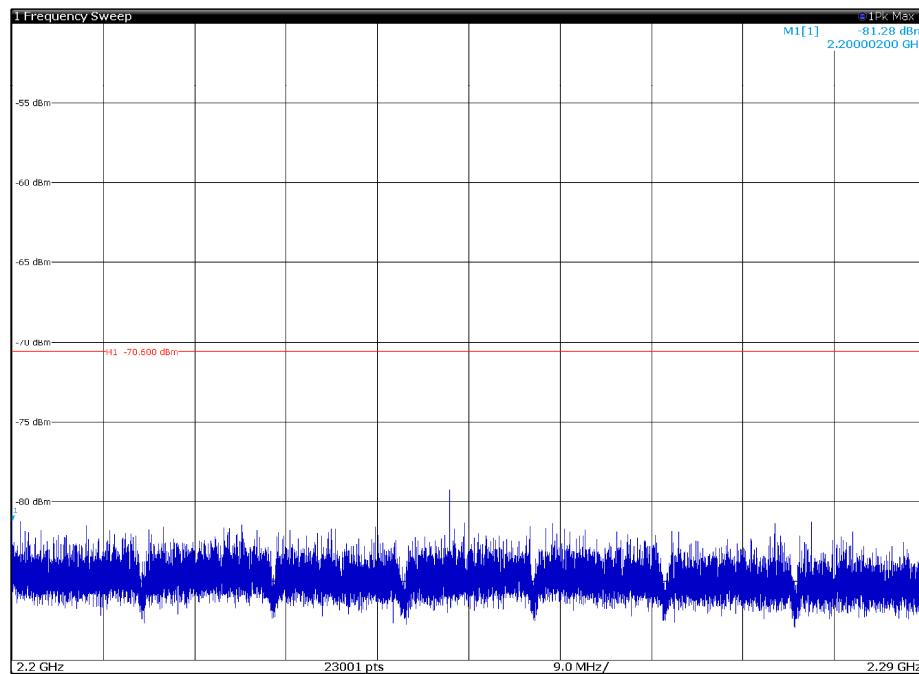
Channel: MIDDLE, Modulation: 16QAM,
BW=5MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



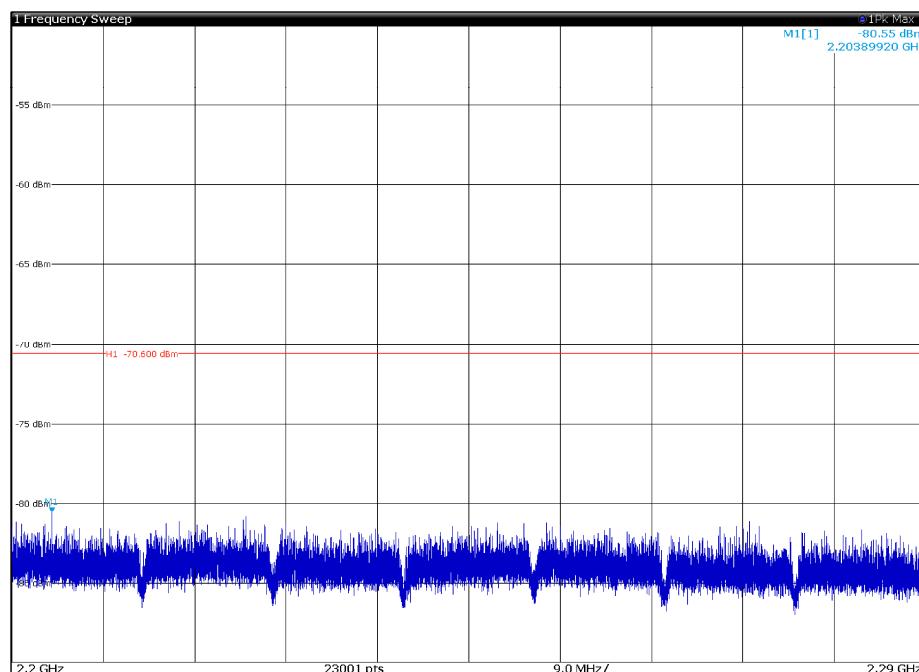
Channel: MIDDLE, Modulation: 64QAM,
BW=5MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



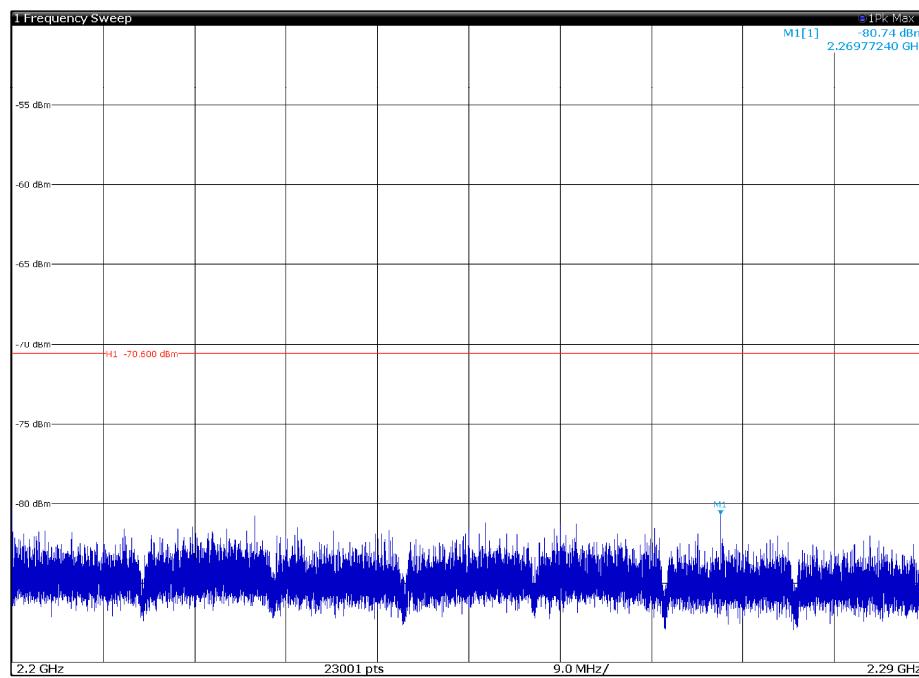
Channel: MIDDLE, Modulation: 64QAM,
BW=5MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



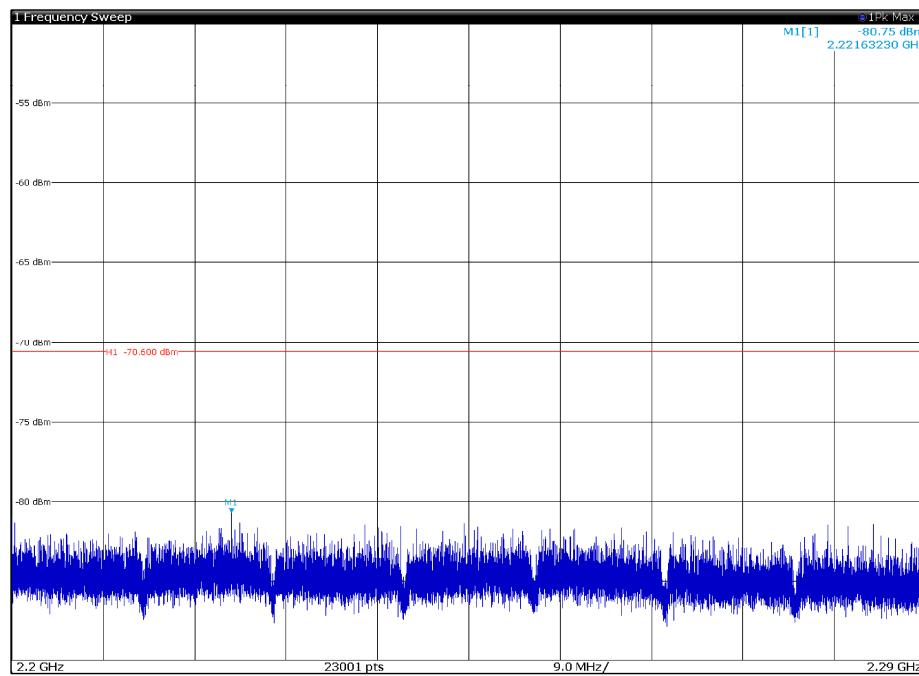
Channel: MIDDLE, Modulation: 256QAM,
BW=5MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



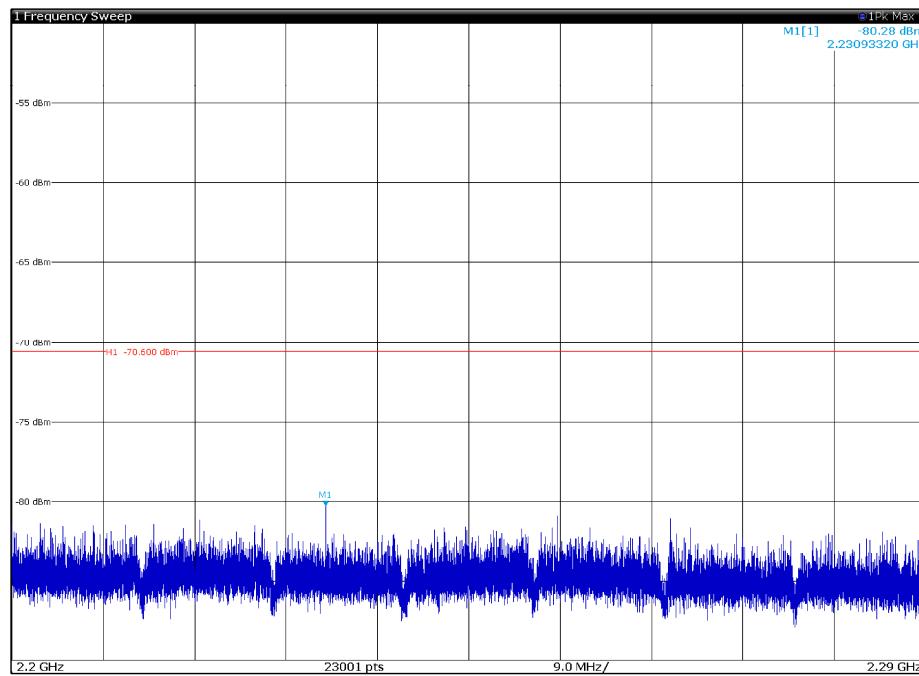
Channel: MIDDLE, Modulation: 256QAM,
BW=5MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



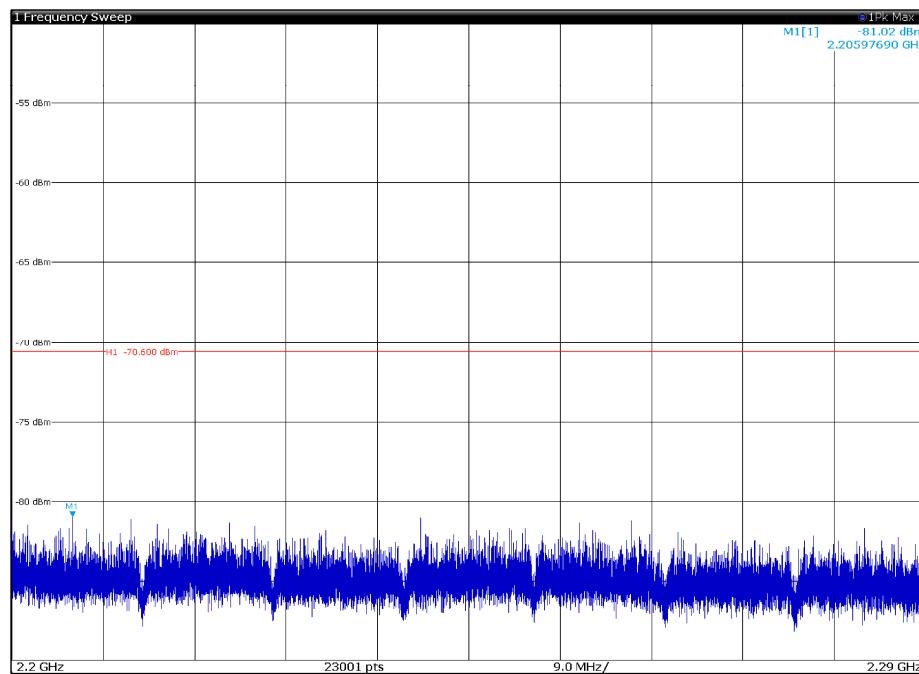
Channel: TOP, Modulation: QPSK,
BW=5MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



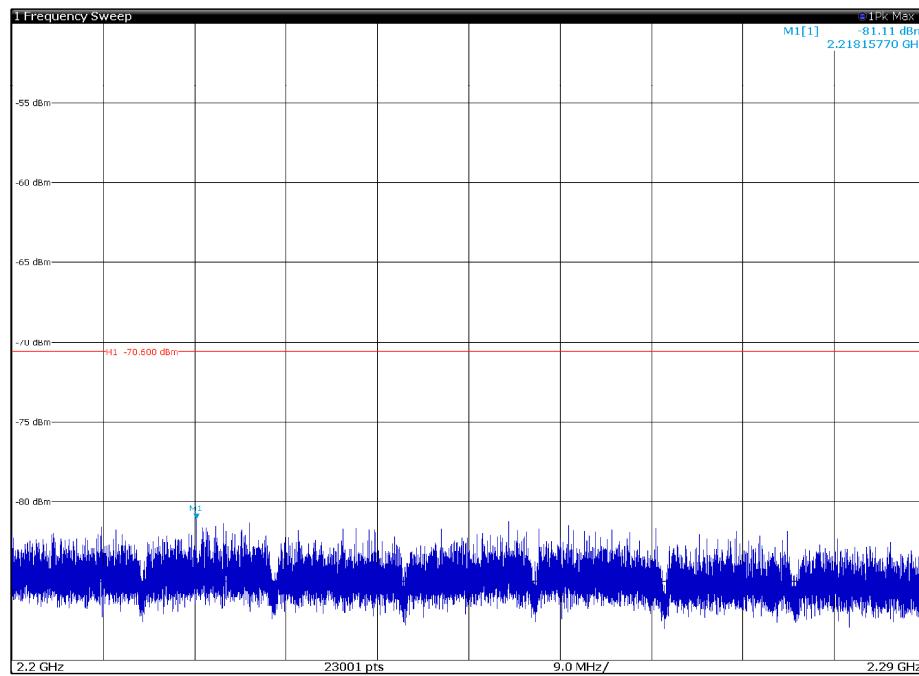
Channel: TOP, Modulation: QPSK,
BW=5MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



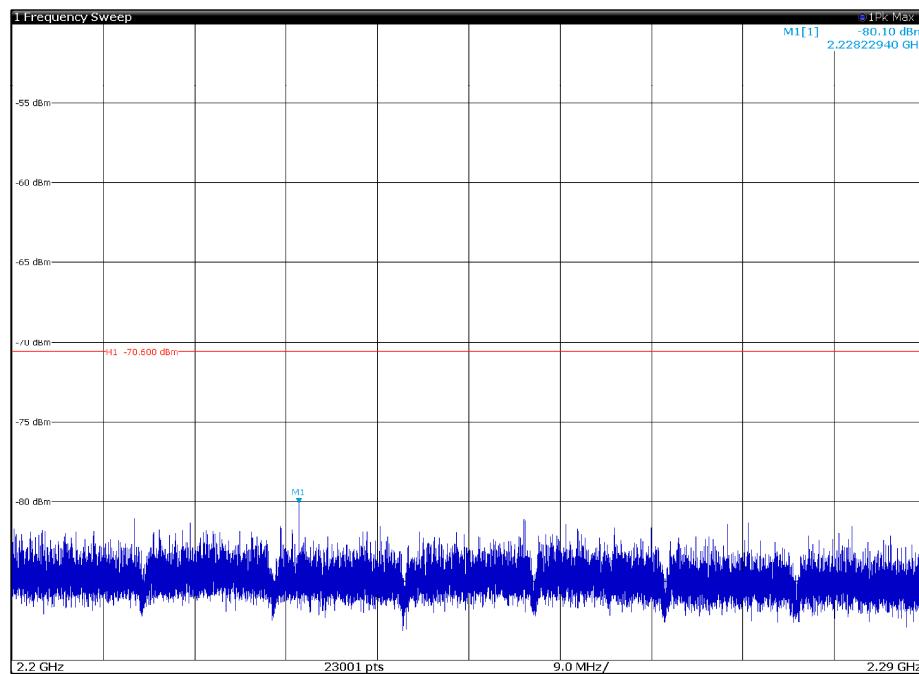
Channel: TOP, Modulation: 16QAM,
BW=5MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



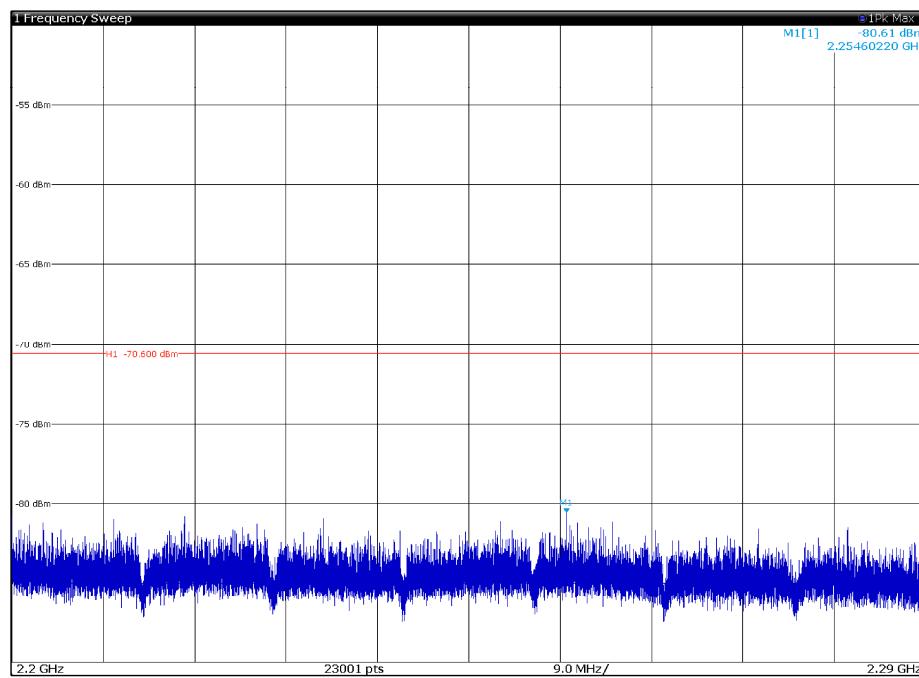
Channel: TOP, Modulation: 16QAM,
BW=5MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



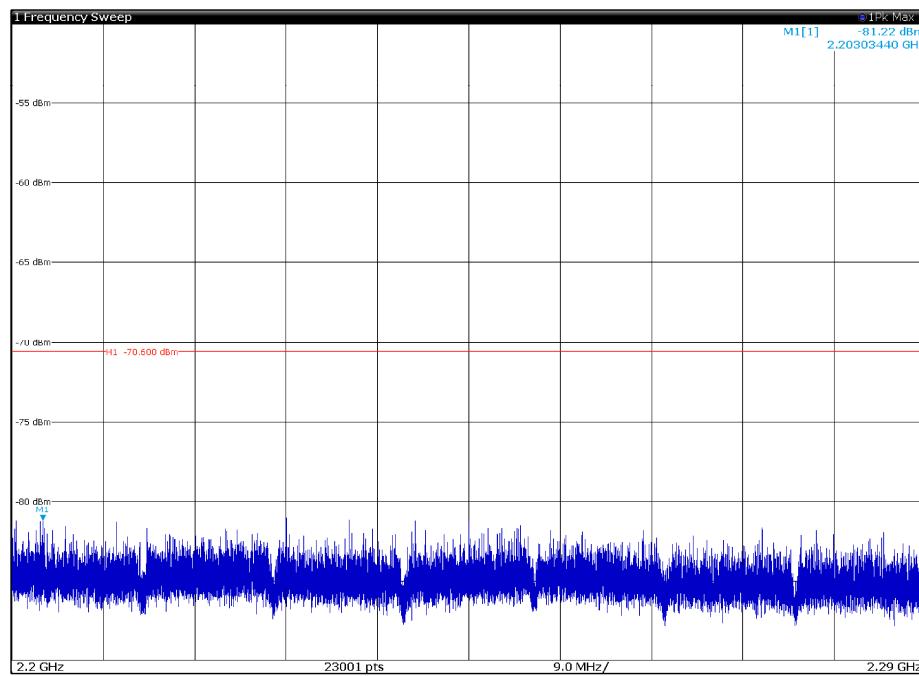
Channel: TOP, Modulation: 64QAM,
 BW=5MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



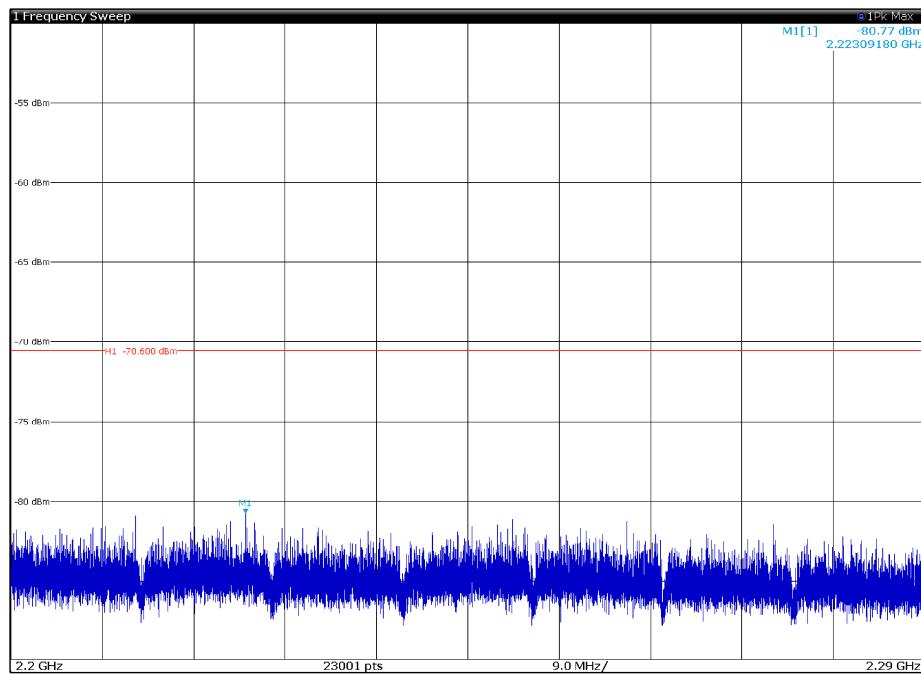
Channel: TOP, Modulation: 64QAM,
 BW=5MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



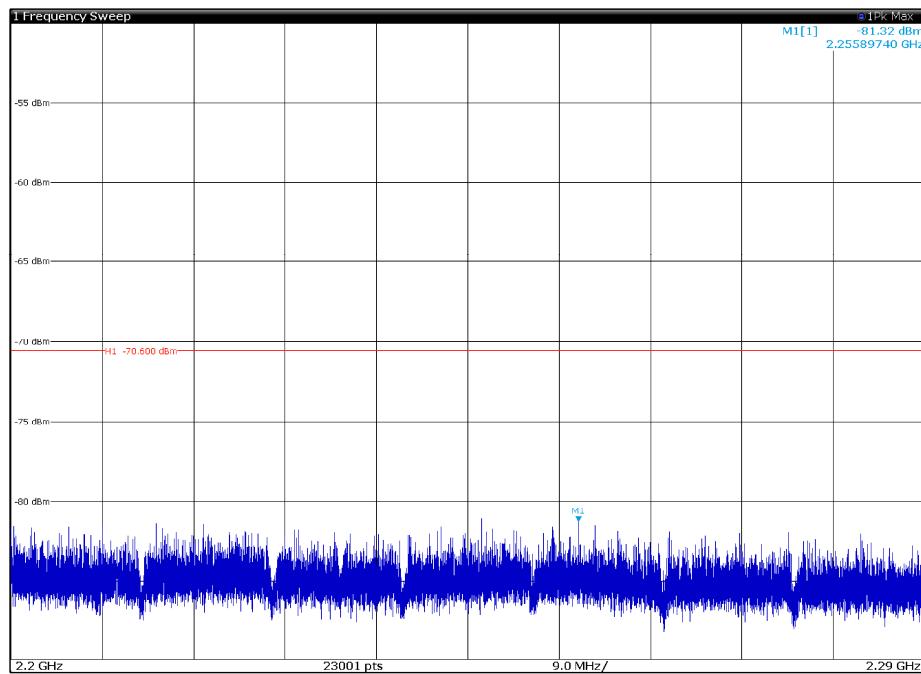
Channel: TOP, Modulation: 256QAM,
BW=5MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



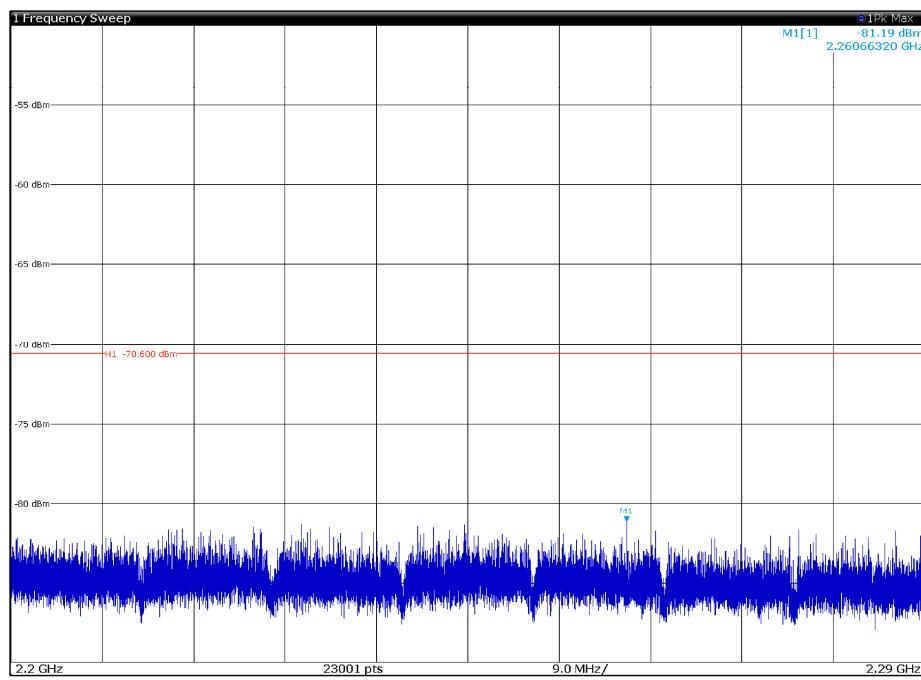
Channel: TOP, Modulation: 256QAM,
BW=5MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



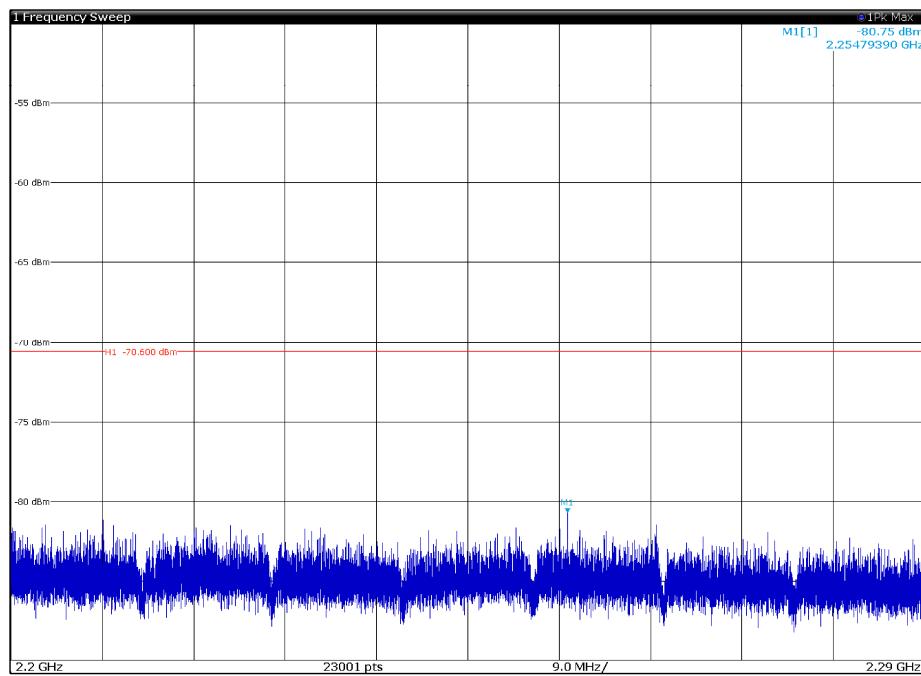
Channel: BOTTOM, Modulation: QPSK,
 BW=10MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



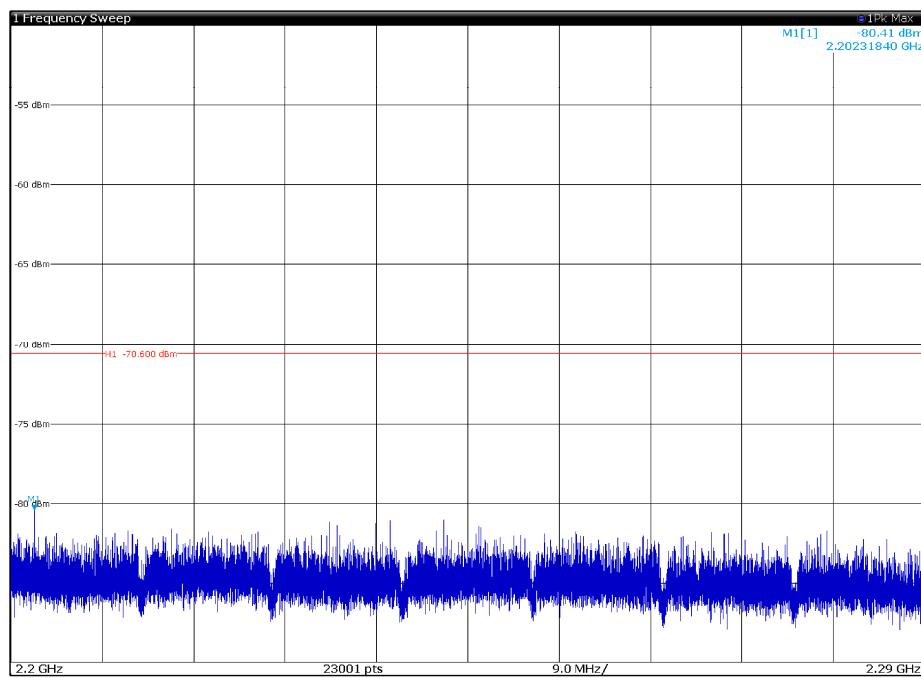
Channel: BOTTOM, Modulation: QPSK,
 BW=10MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



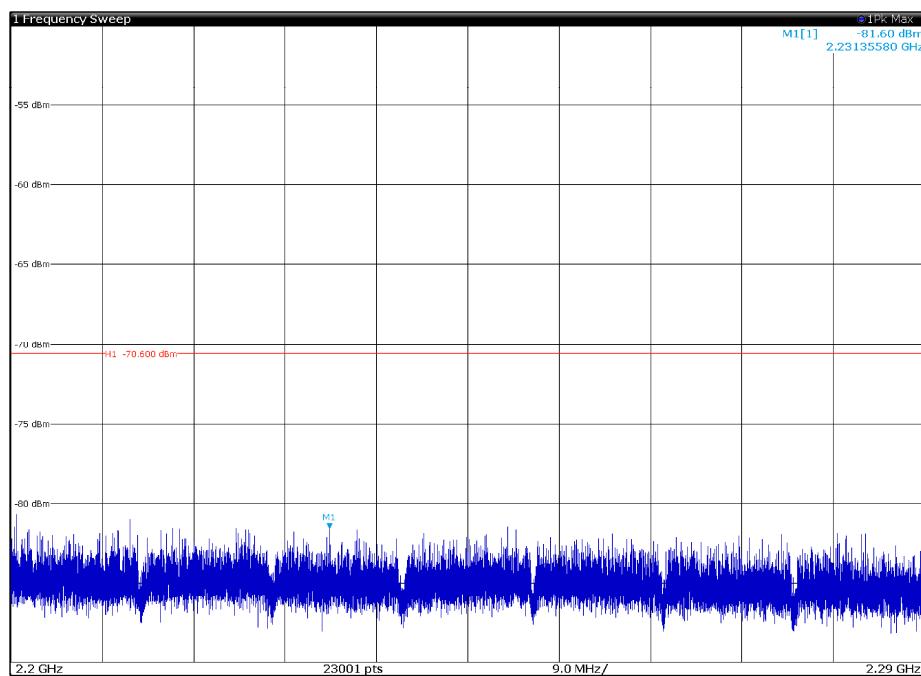
Channel: BOTTOM, Modulation: 16QAM,
BW=10MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



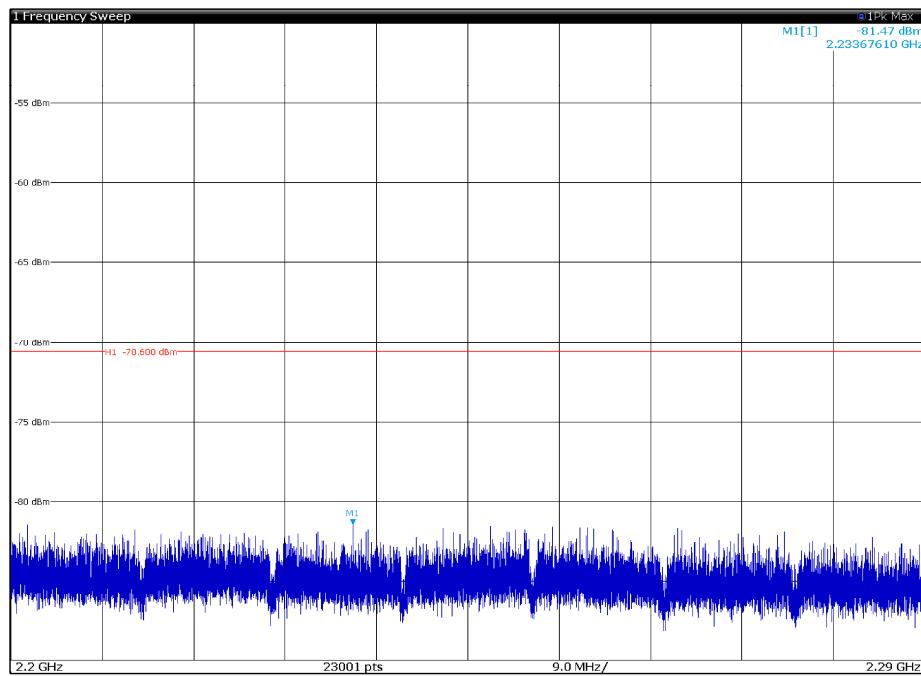
Channel: BOTTOM, Modulation: 16QAM,
BW=10MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



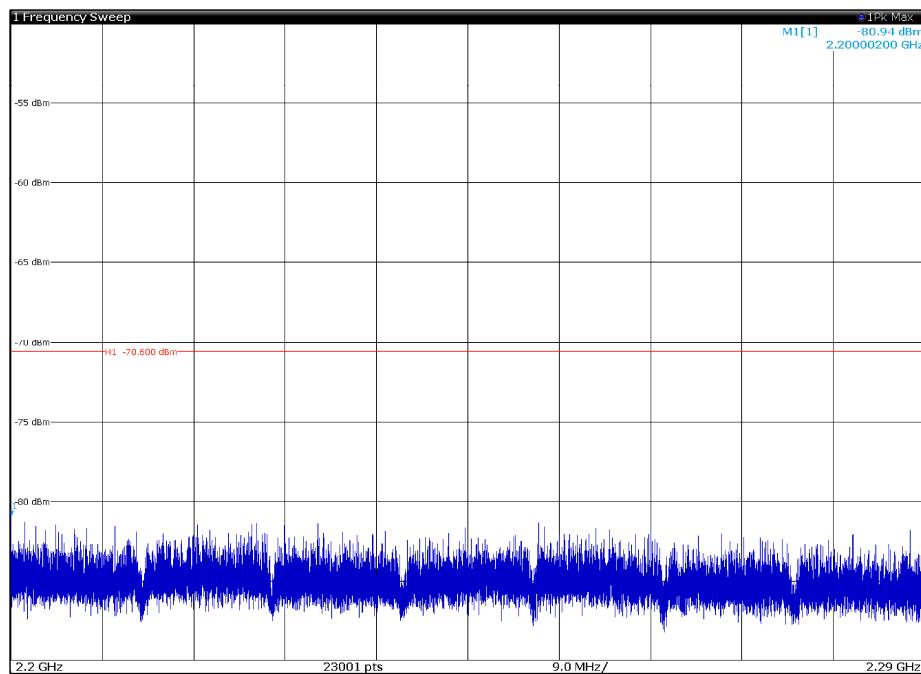
Channel: BOTTOM, Modulation: 64QAM,
BW=10MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



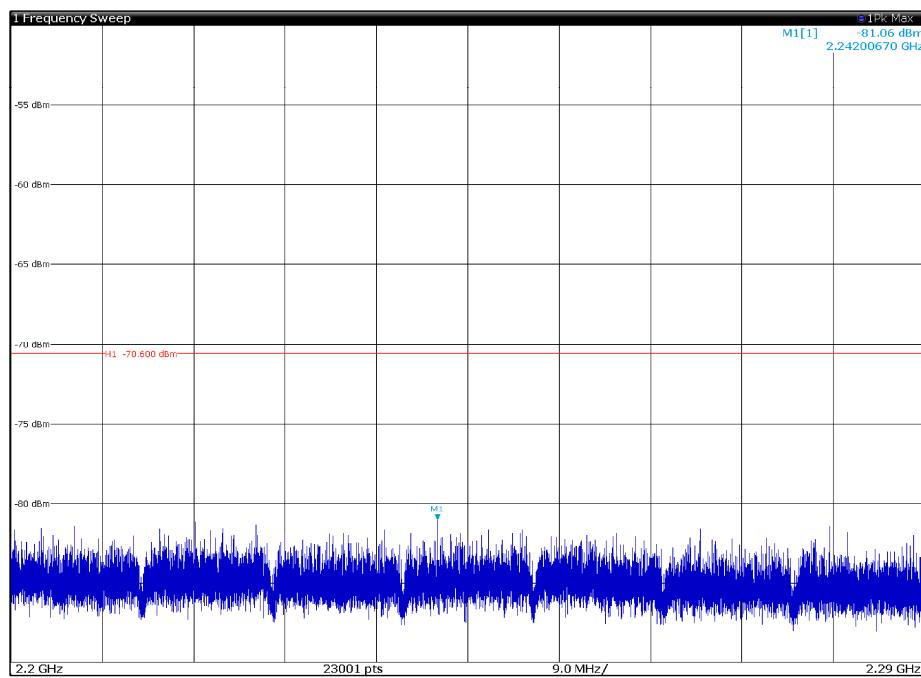
Channel: BOTTOM, Modulation: 64QAM,
BW=10MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



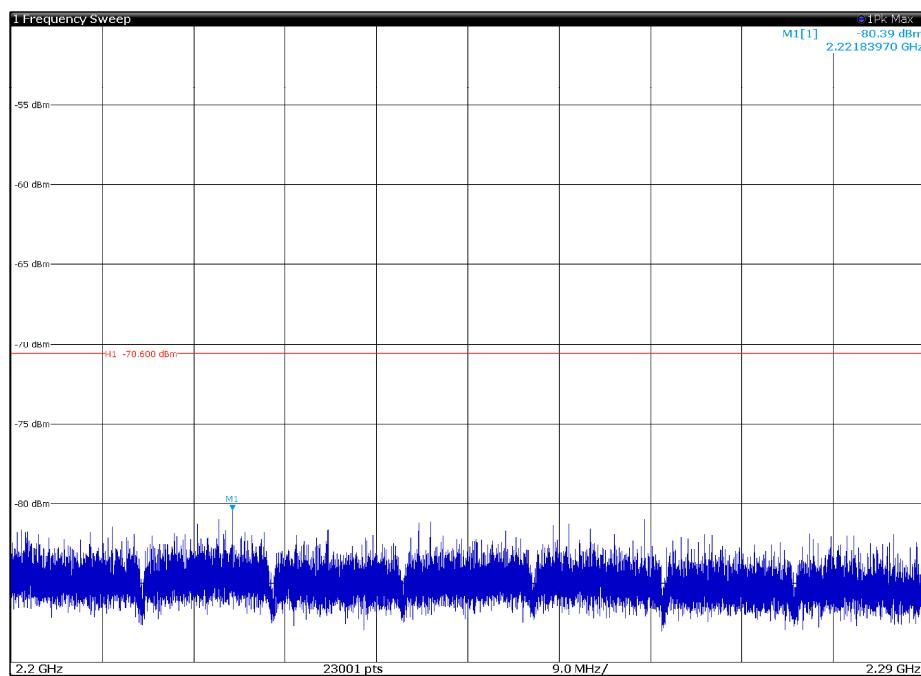
Channel: BOTTOM, Modulation: 256QAM,
 BW=10MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



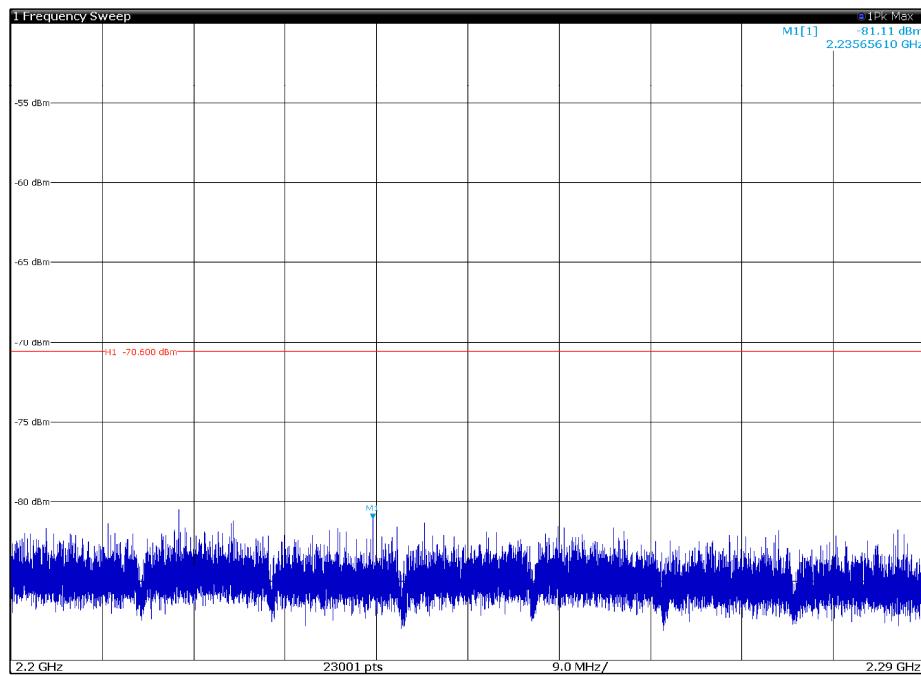
Channel: BOTTOM, Modulation: 256QAM,
 BW=10MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



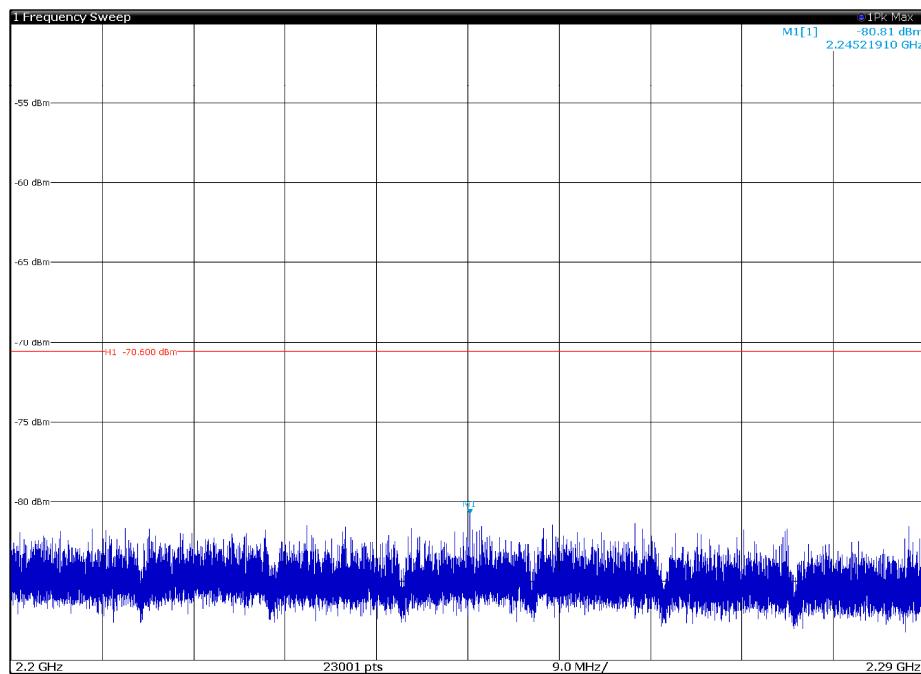
Channel: MIDDLE, Modulation: QPSK,
 BW=10MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



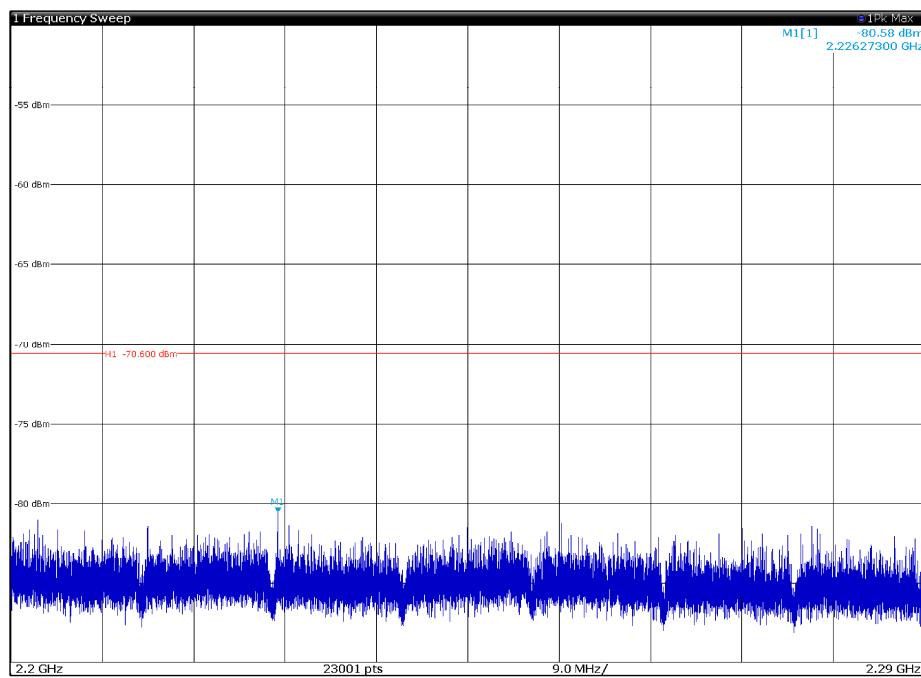
Channel: MIDDLE, Modulation: QPSK,
 BW=10MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



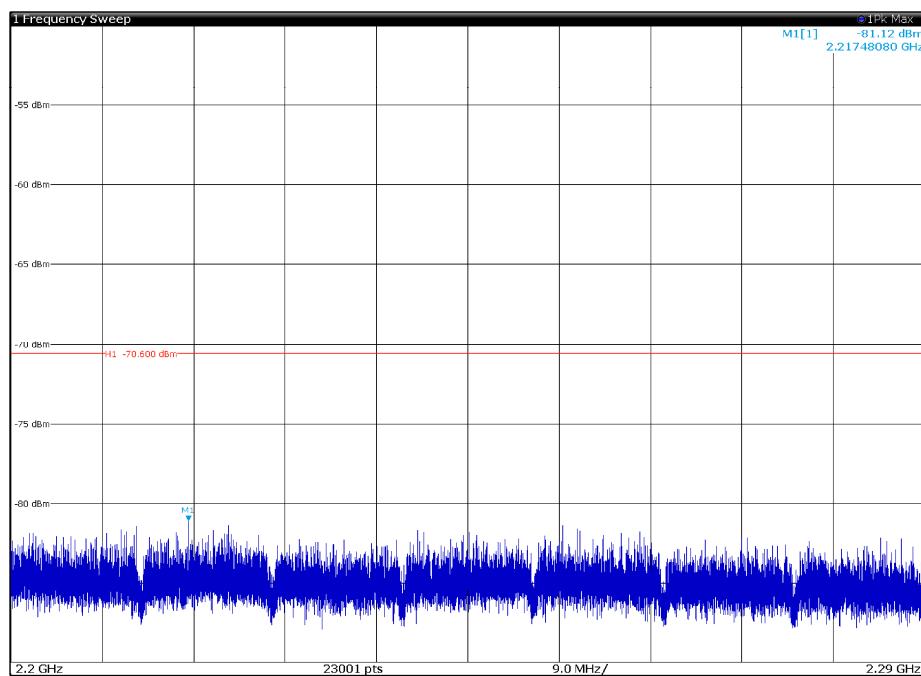
Channel: MIDDLE, Modulation: 16QAM,
 BW=10MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



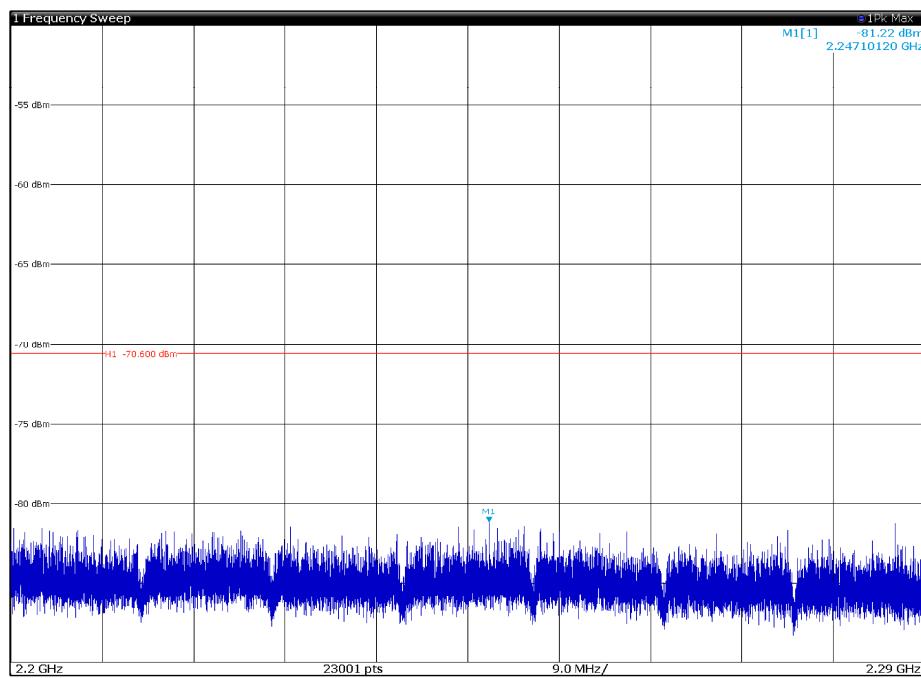
Channel: MIDDLE, Modulation: 16QAM,
 BW=10MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



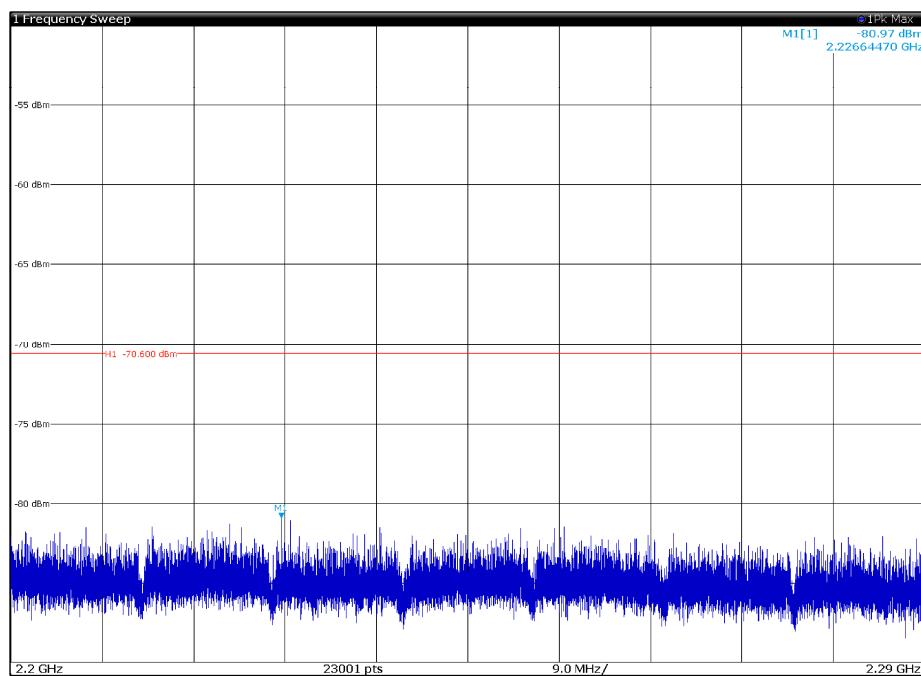
Channel: MIDDLE, Modulation: 64QAM,
BW=10MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



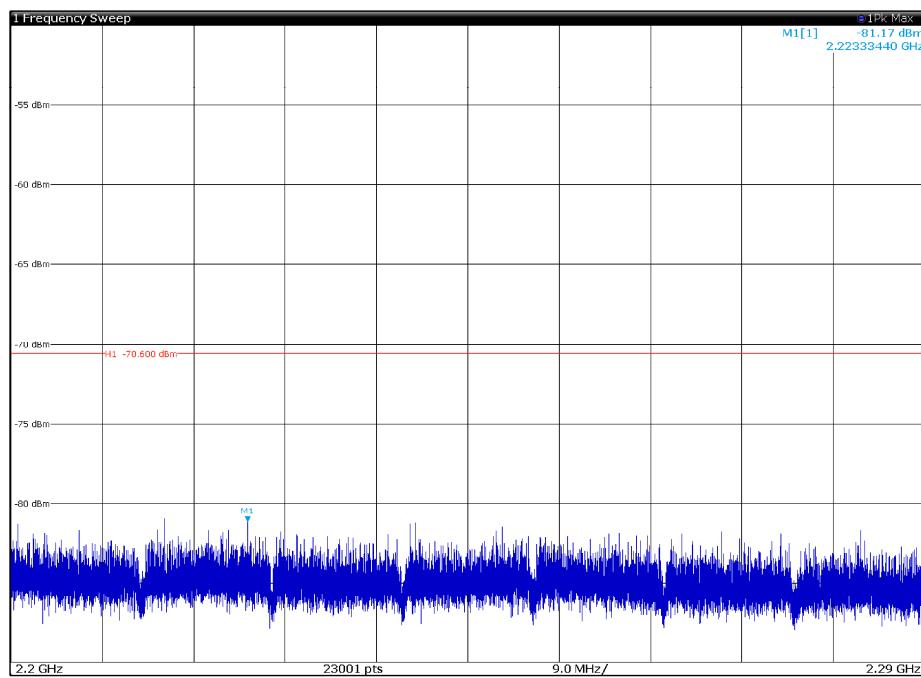
Channel: MIDDLE, Modulation: 64QAM,
BW=10MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



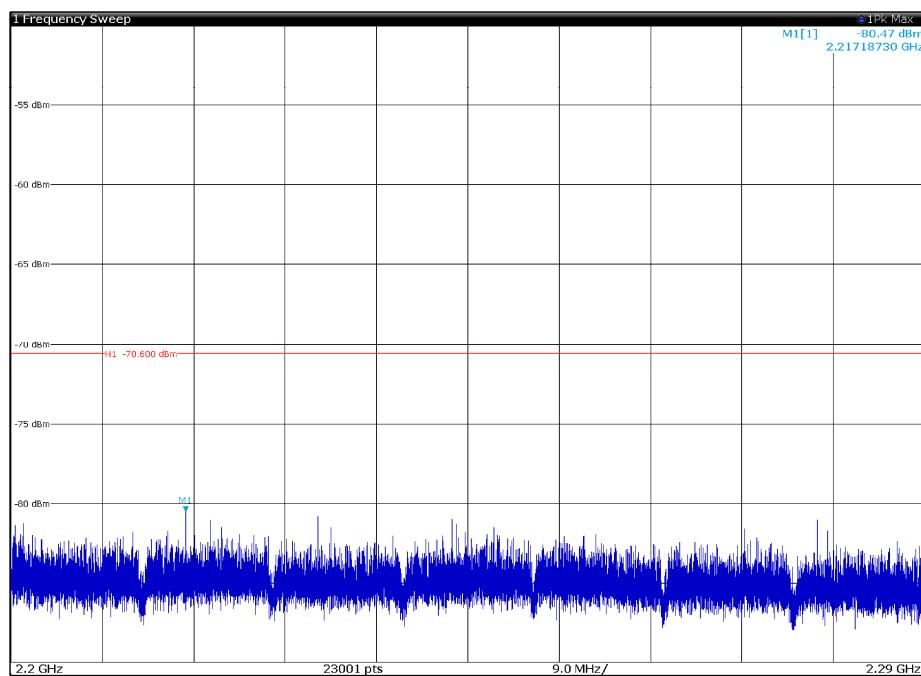
Channel: MIDDLE, Modulation: 256QAM,
BW=10MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



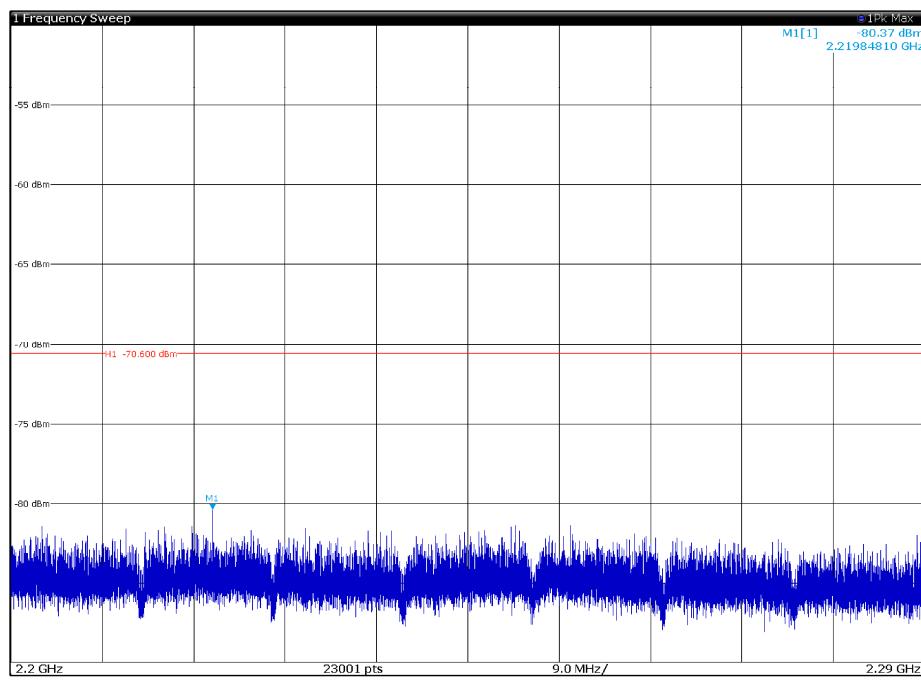
Channel: MIDDLE, Modulation: 256QAM,
BW=10MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



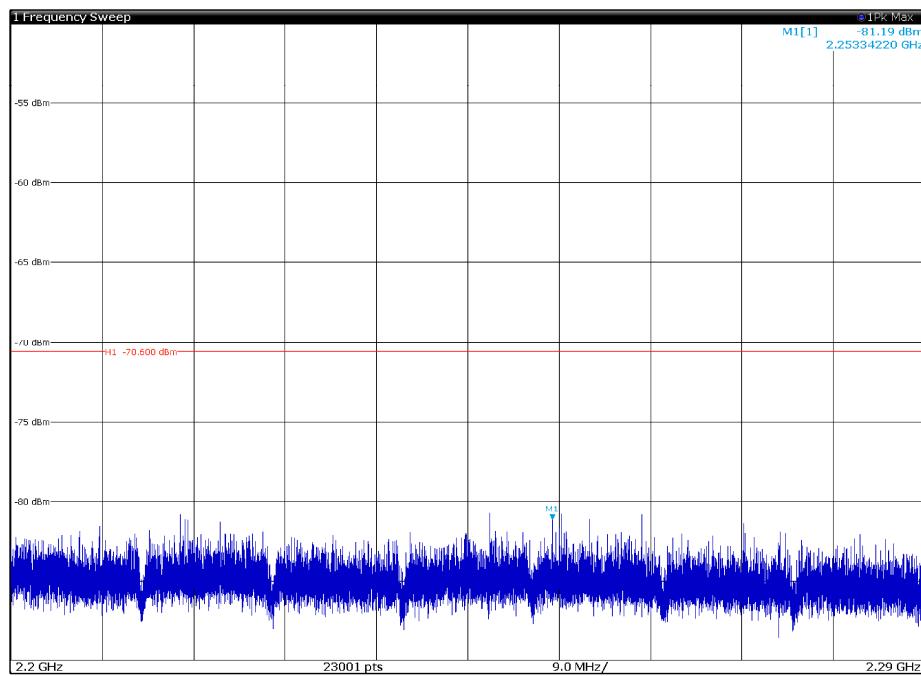
Channel: TOP, Modulation: QPSK,
BW=10MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



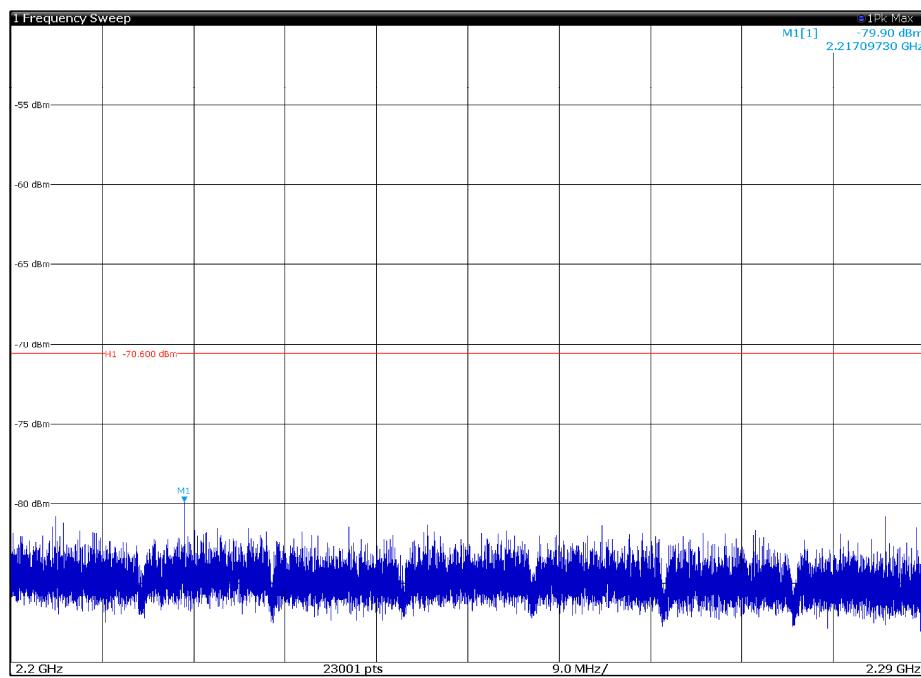
Channel: TOP, Modulation: QPSK,
BW=10MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



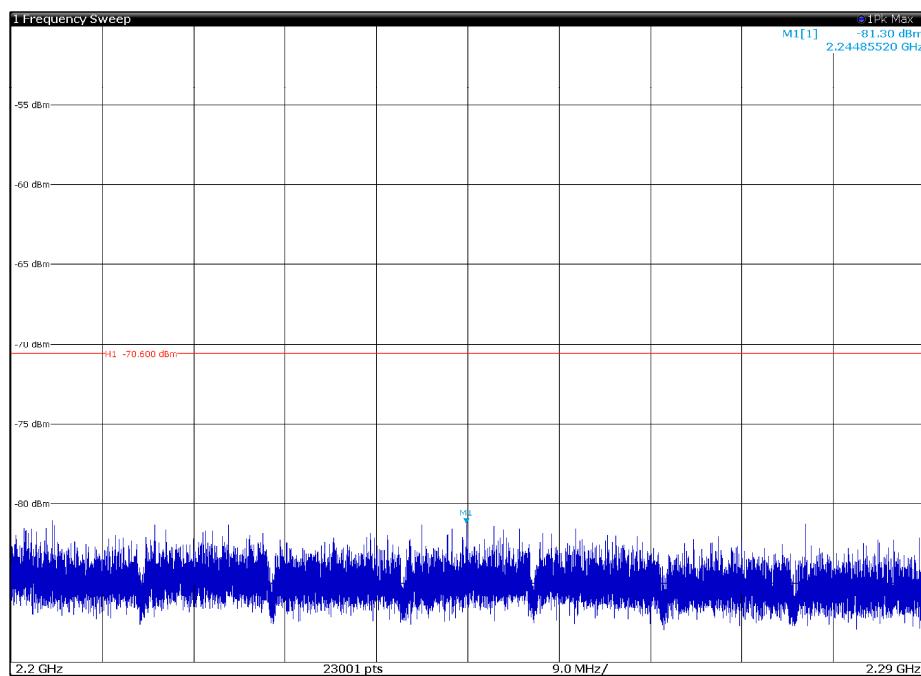
Channel: TOP, Modulation: 16QAM,
BW=10MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



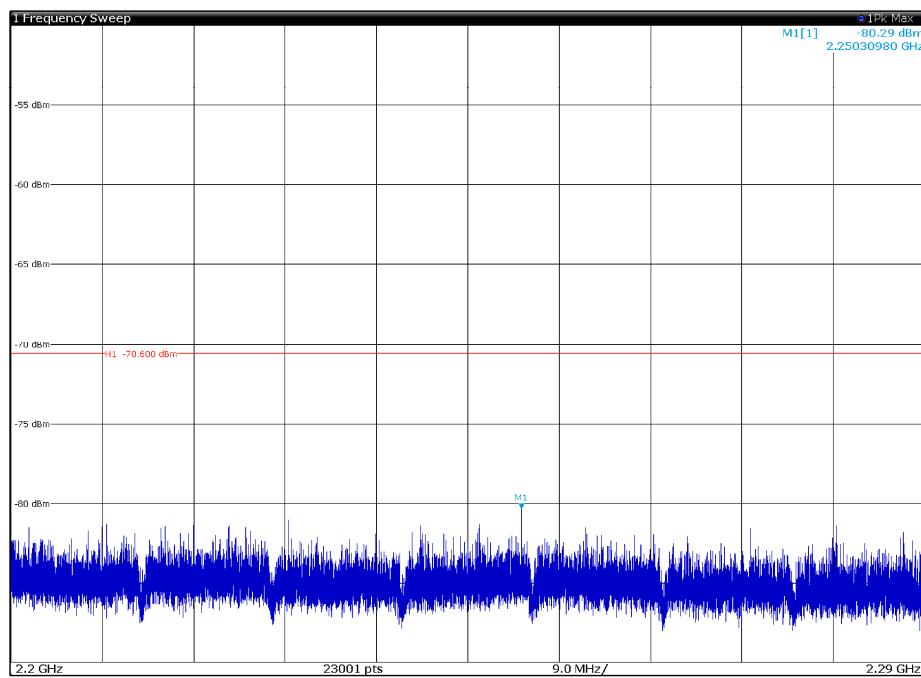
Channel: TOP, Modulation: 16QAM,
BW=10MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



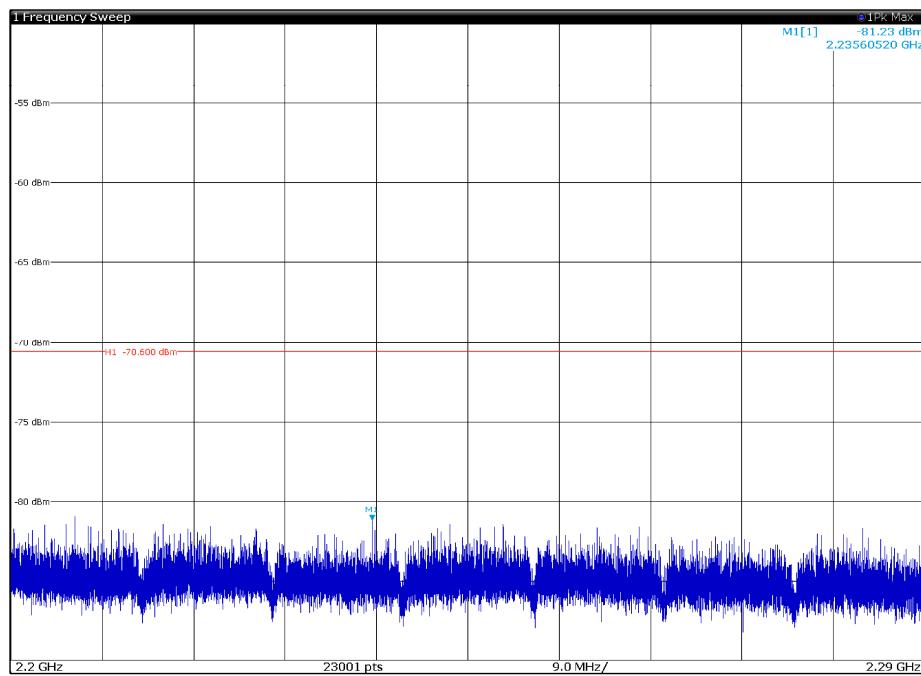
Channel: TOP, Modulation: 64QAM,
 BW=10MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



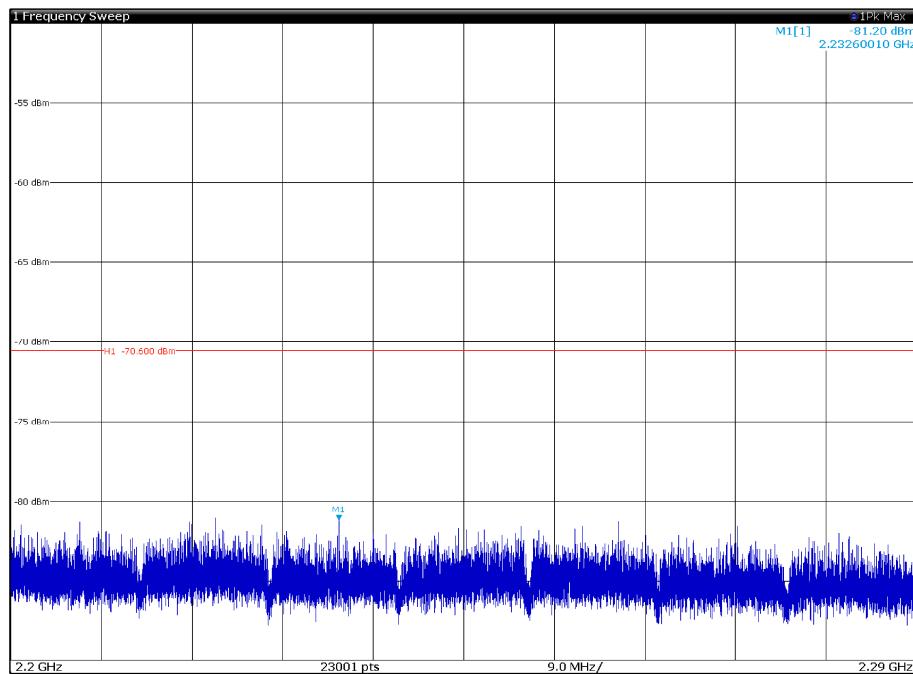
Channel: TOP, Modulation: 64QAM,
 BW=10MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



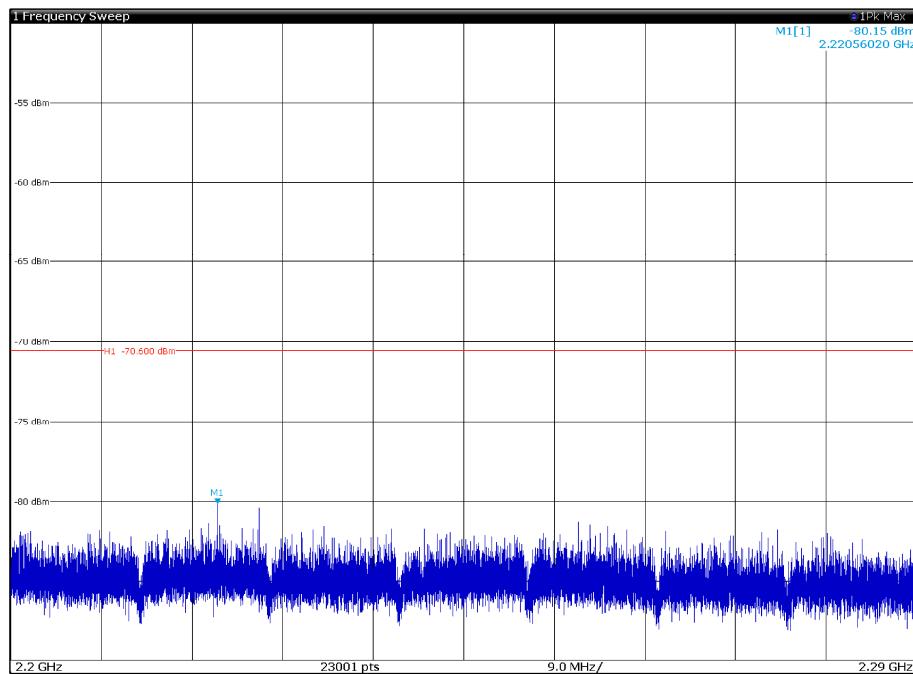
Channel: TOP, Modulation: 256QAM,
BW=10MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



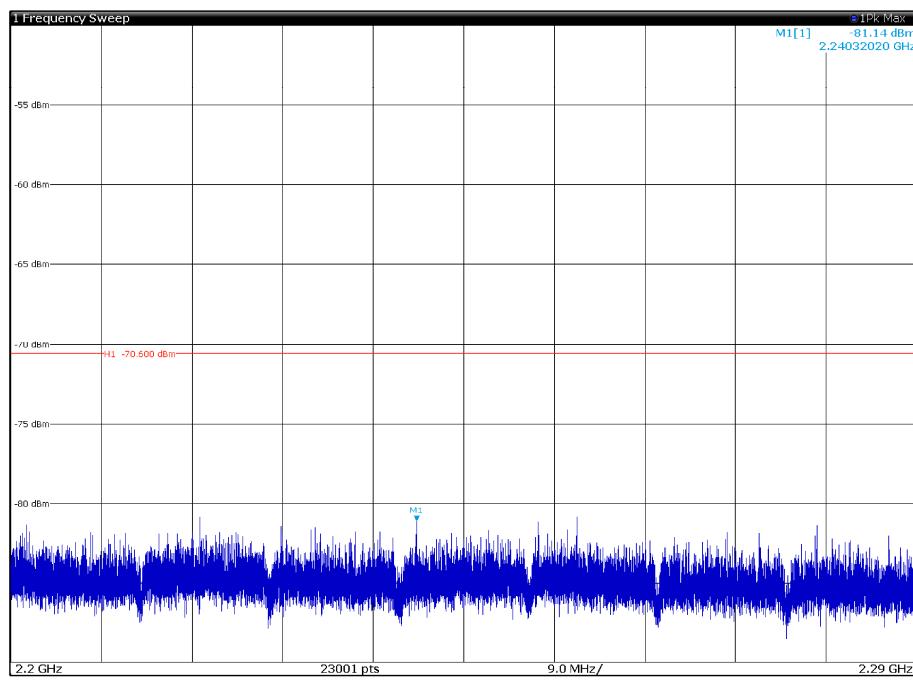
Channel: TOP, Modulation: 256QAM,
BW=10MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



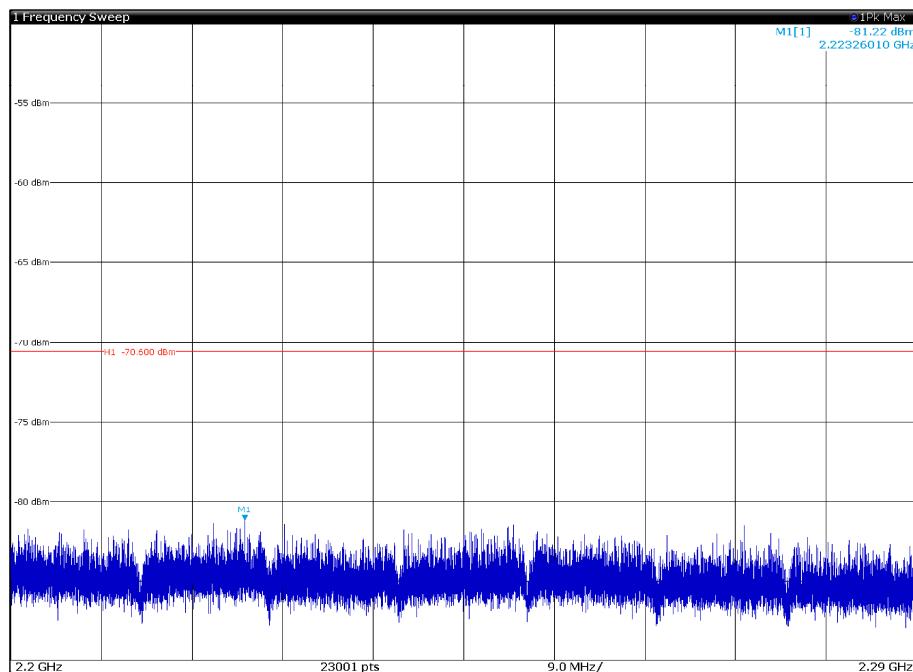
Channel: BOTTOM, Modulation: QPSK,
 BW=15MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



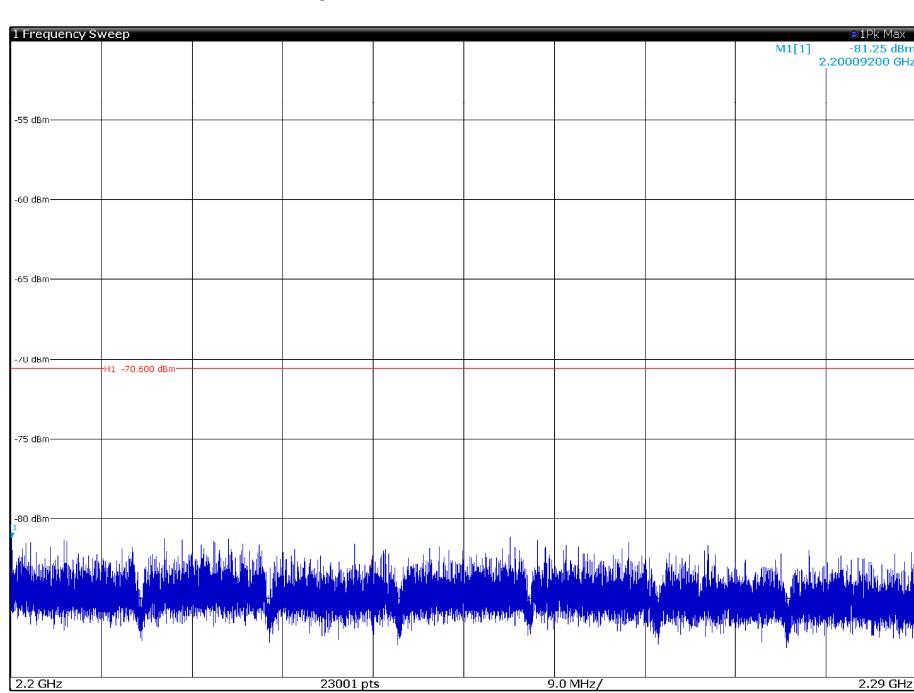
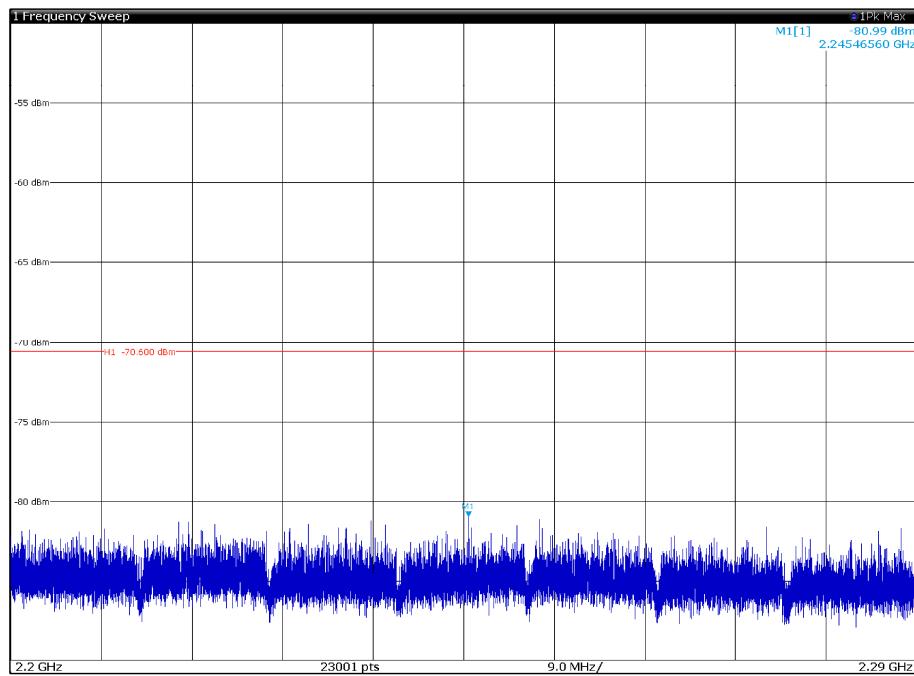
Channel: BOTTOM, Modulation: QPSK,
 BW=15MHz, Range: 2200MHz-2290GHz, Polarization: Vertical

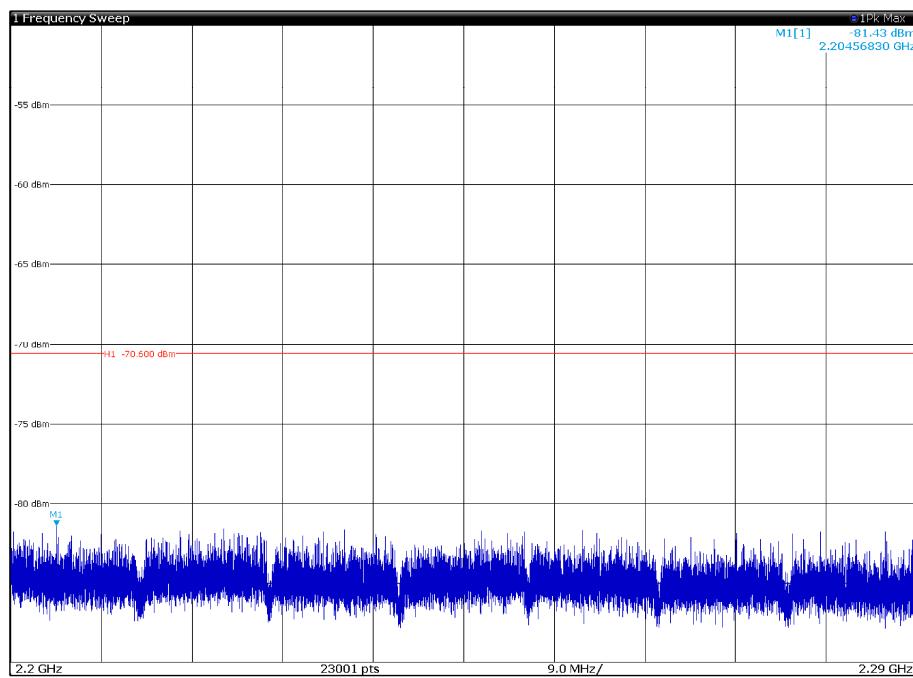


Channel: BOTTOM, Modulation: 16QAM,
BW=15MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal

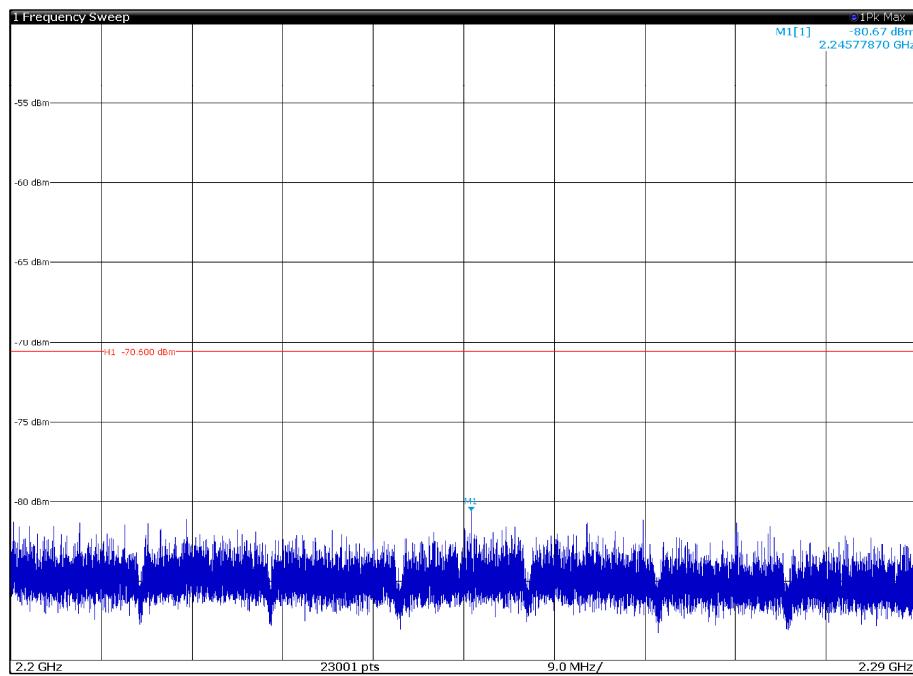


Channel: BOTTOM, Modulation: 16QAM,
BW=15MHz, Range: 2200MHz-2290GHz, Polarization: Vertical

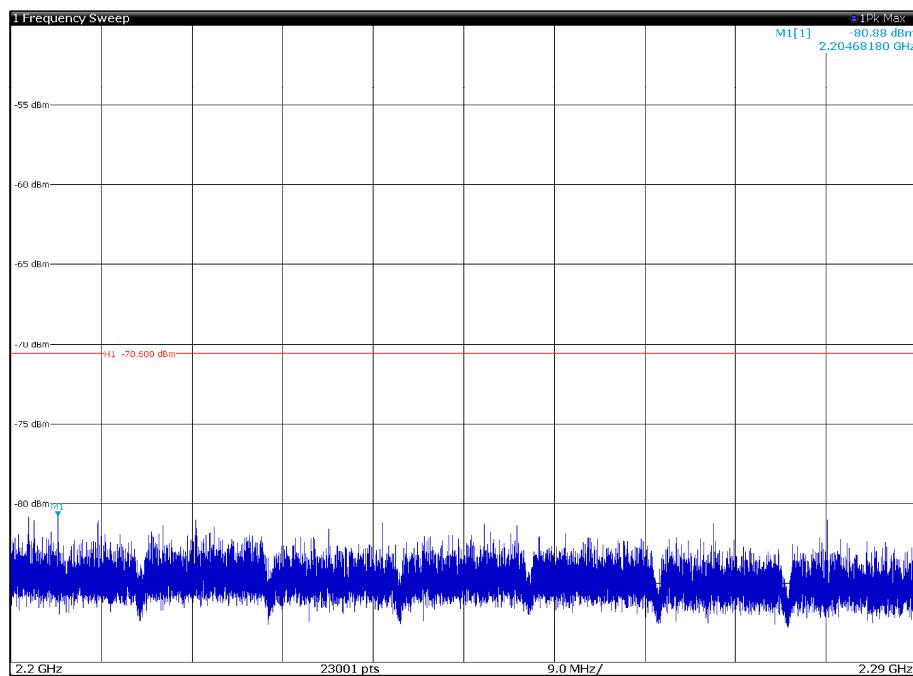




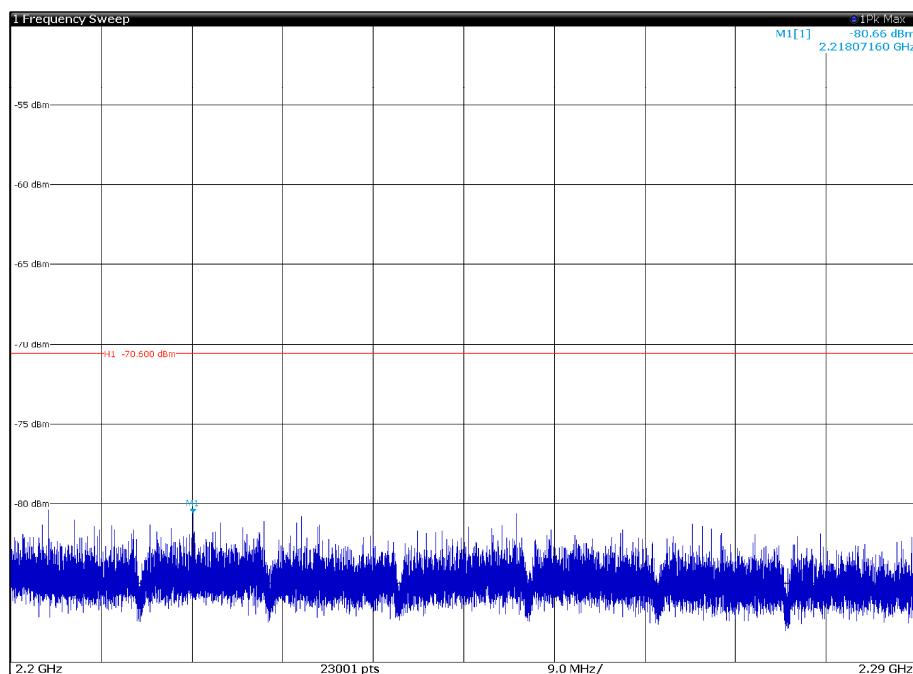
Channel: BOTTOM, Modulation: 256QAM,
BW=15MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



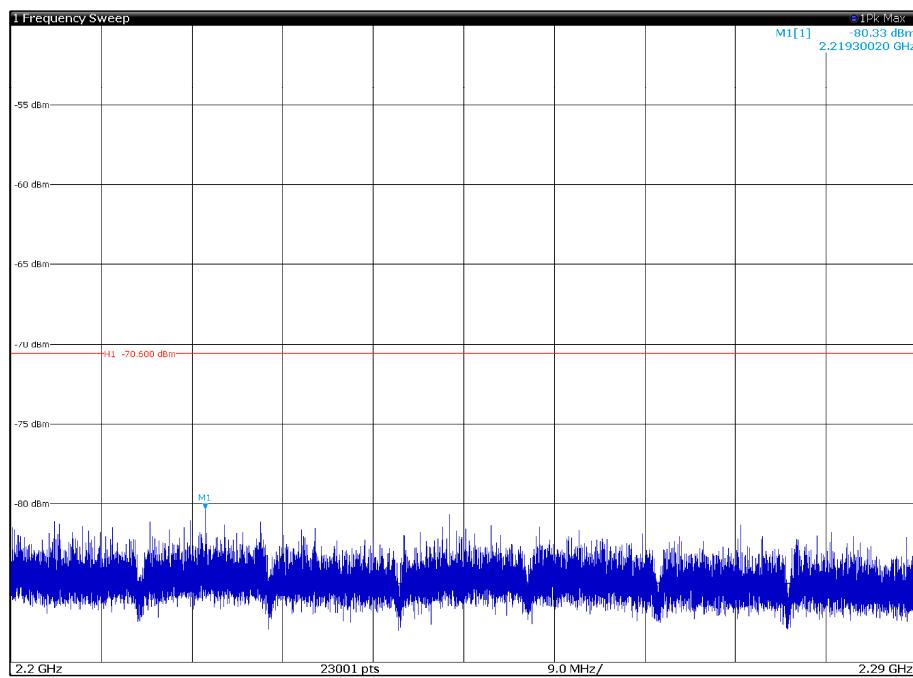
Channel: BOTTOM, Modulation: 256QAM,
BW=15MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



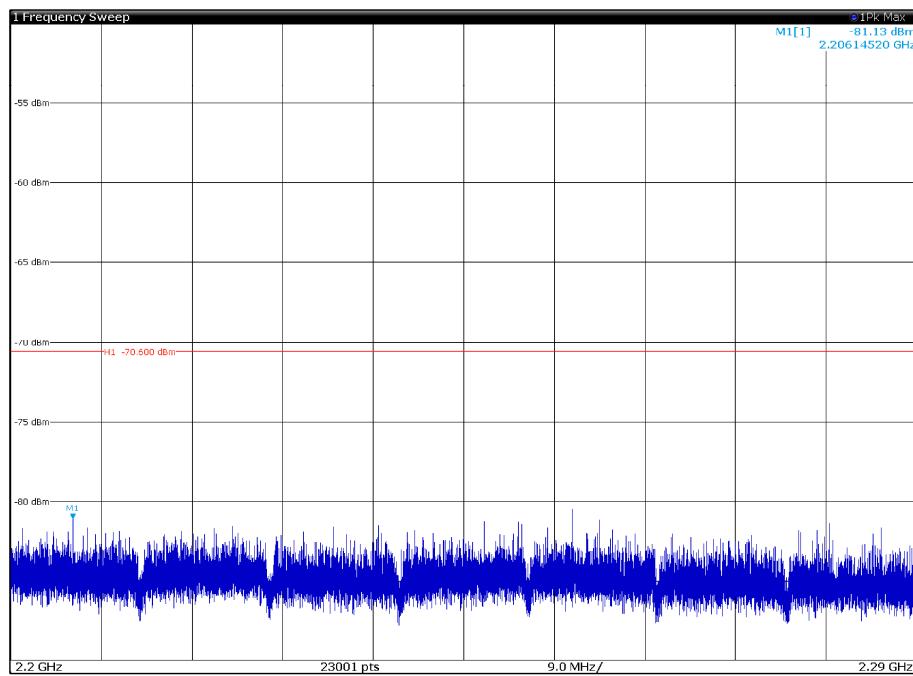
Channel: MIDDLE, Modulation: QPSK,
 BW=15MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



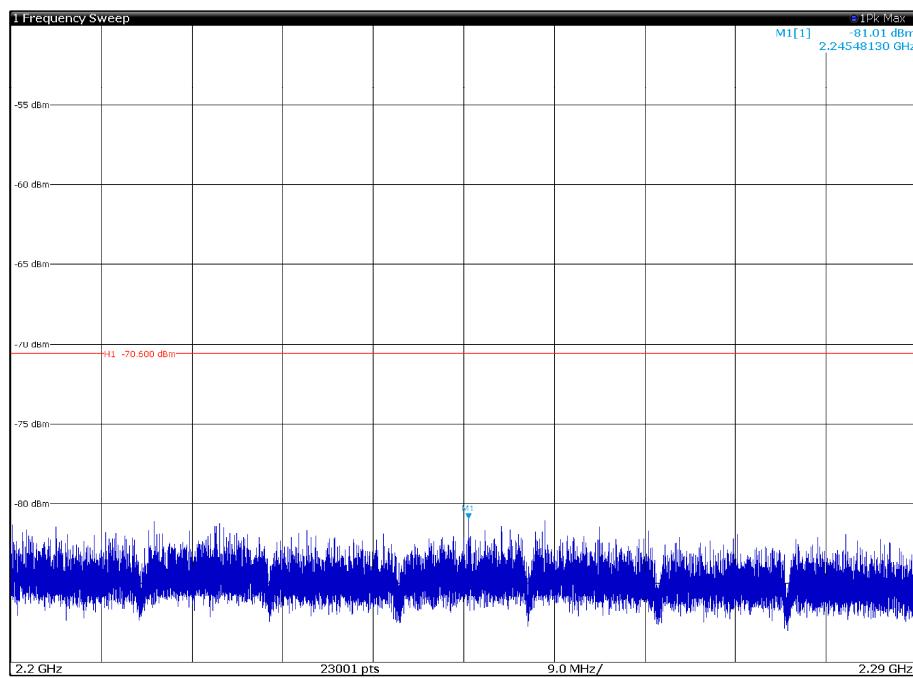
Channel: MIDDLE, Modulation: QPSK,
 BW=15MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



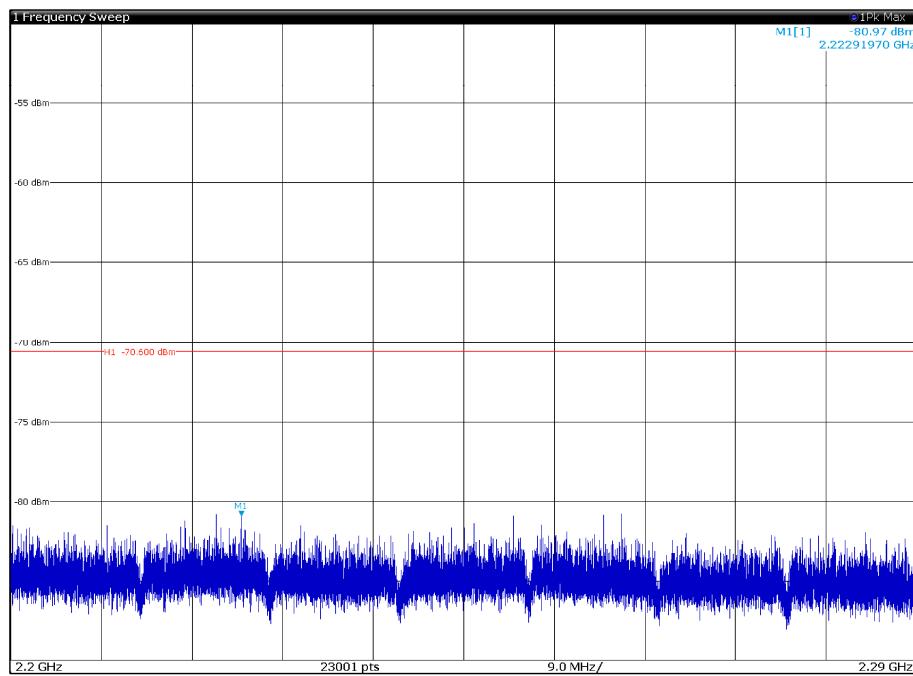
Channel: MIDDLE, Modulation: 16QAM,
BW=15MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



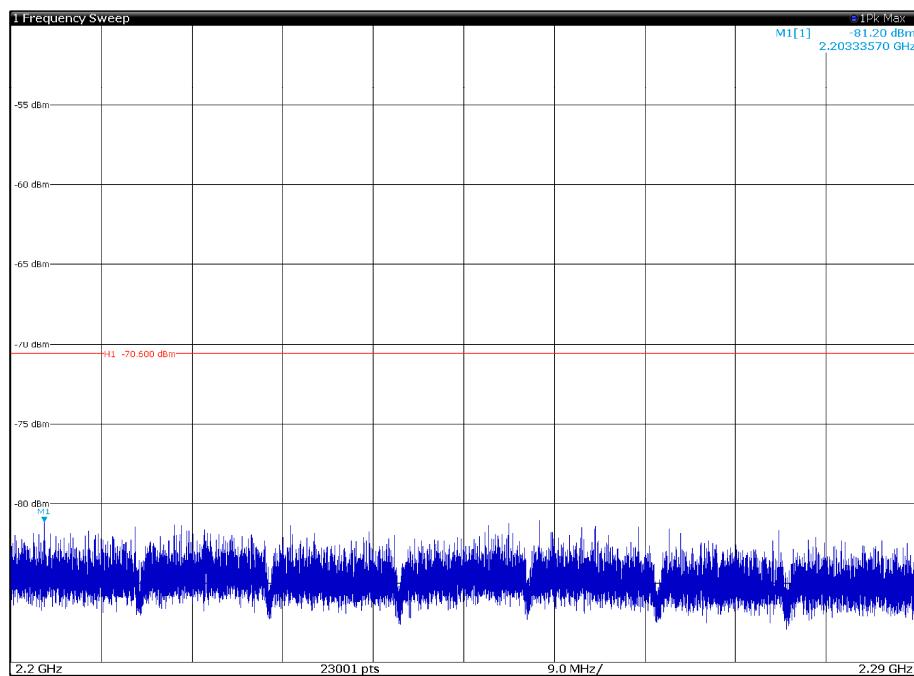
Channel: MIDDLE, Modulation: 16QAM,
BW=15MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



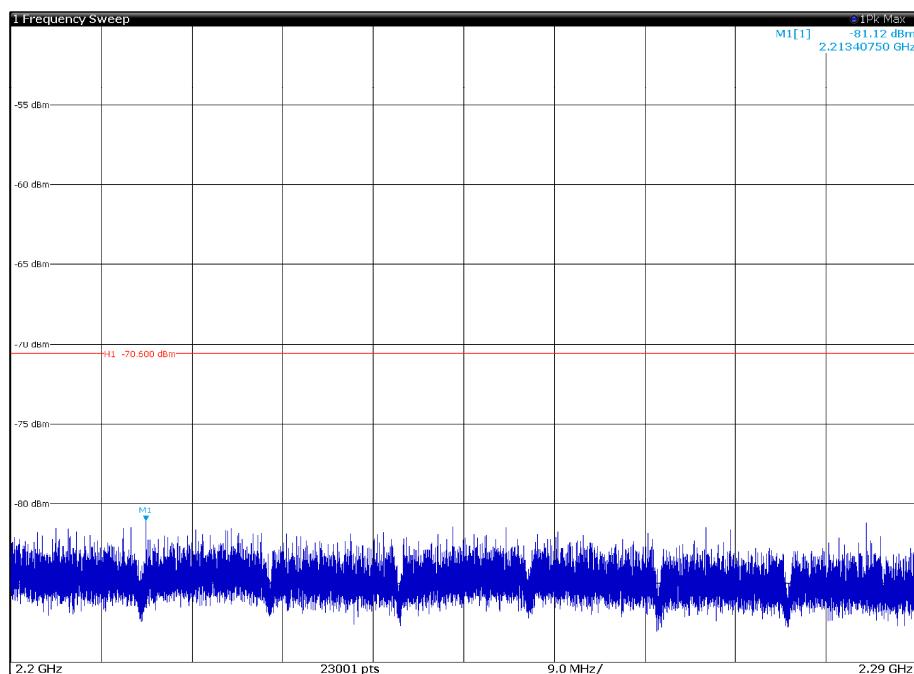
Channel: MIDDLE, Modulation: 64QAM,
BW=15MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



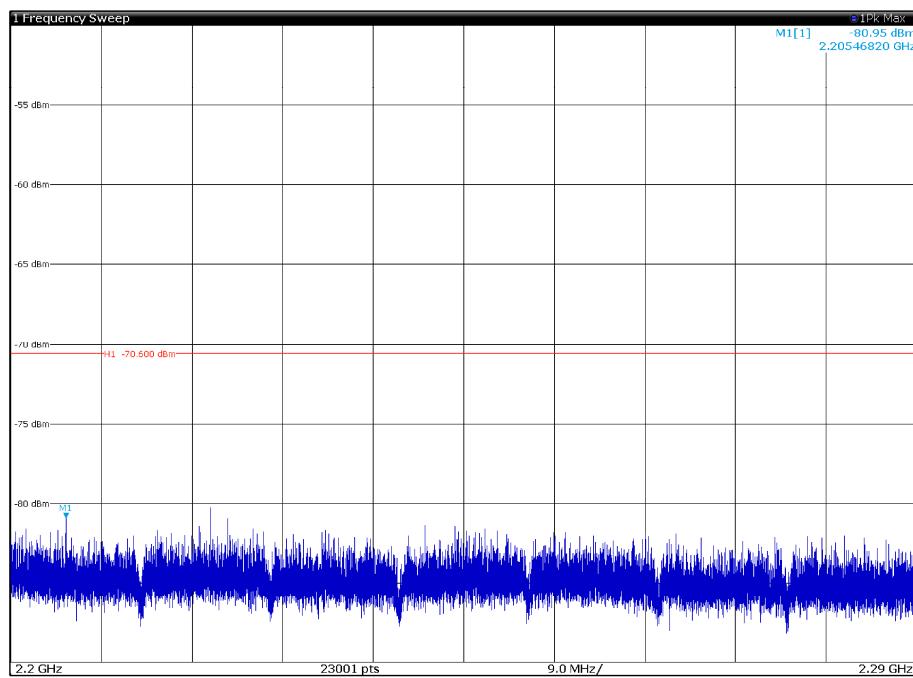
Channel: MIDDLE, Modulation: 64QAM,
BW=15MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



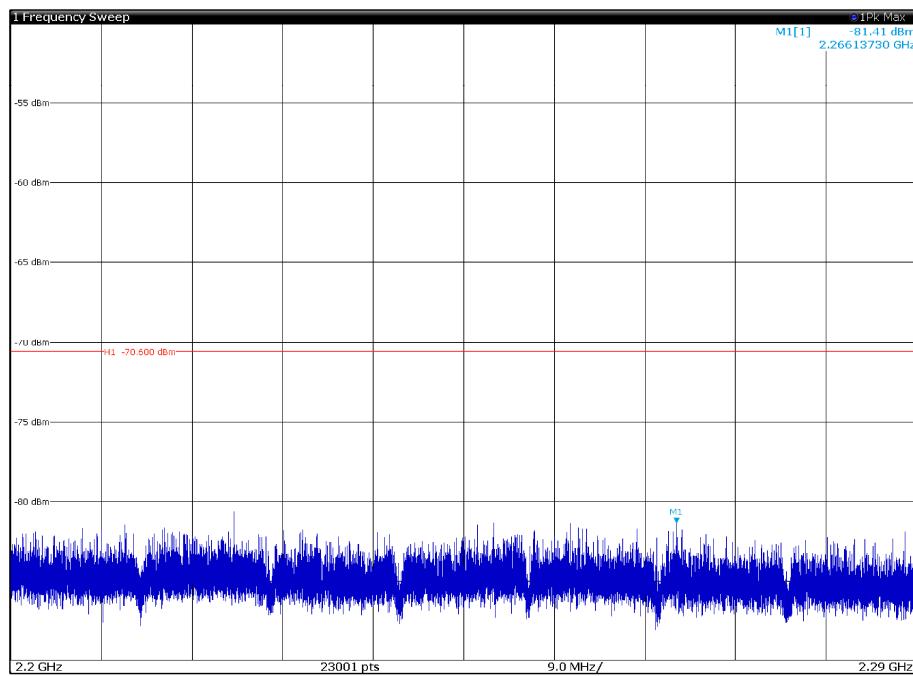
Channel: MIDDLE, Modulation: 256QAM,
BW=15MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



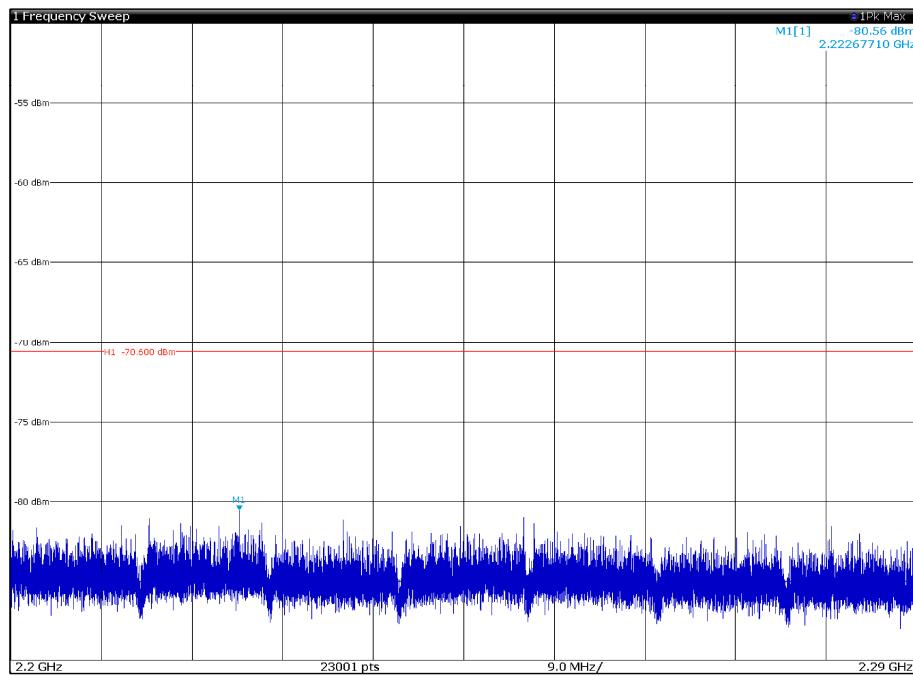
Channel: MIDDLE, Modulation: 256QAM,
BW=15MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



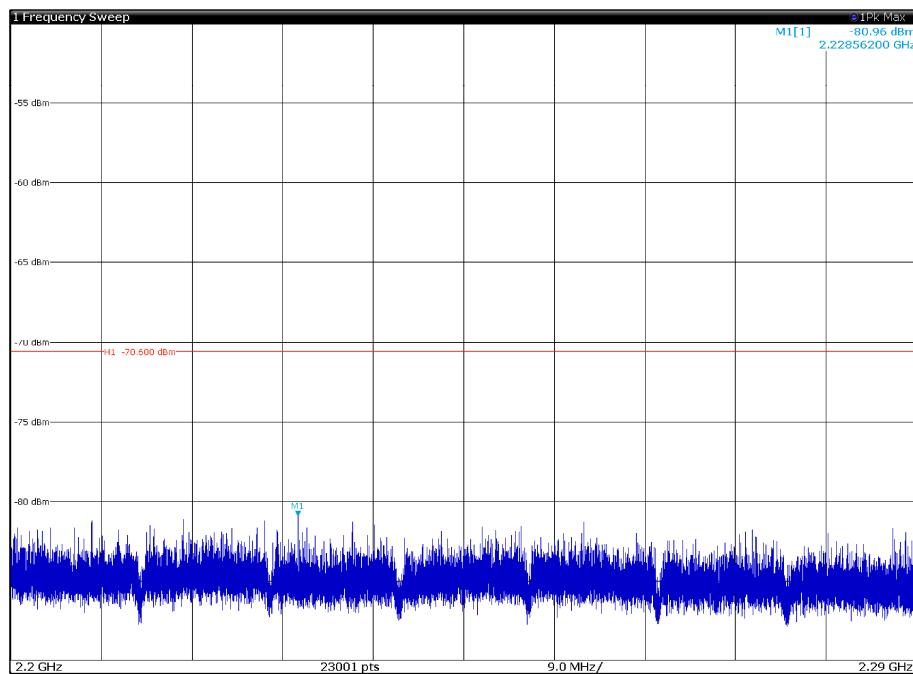
Channel: TOP, Modulation: QPSK,
BW=15MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



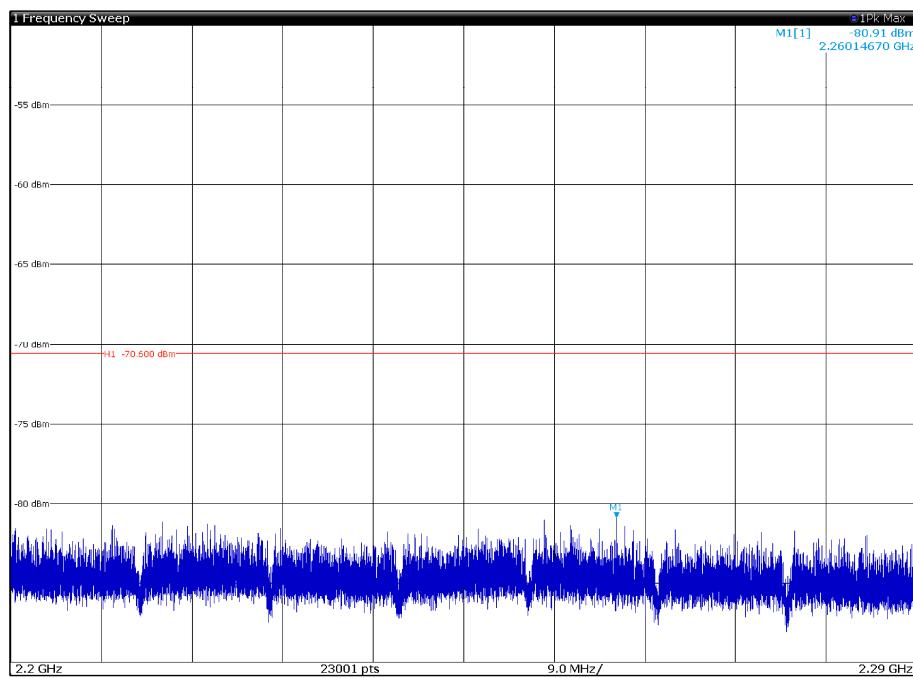
Channel: TOP, Modulation: QPSK,
BW=15MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



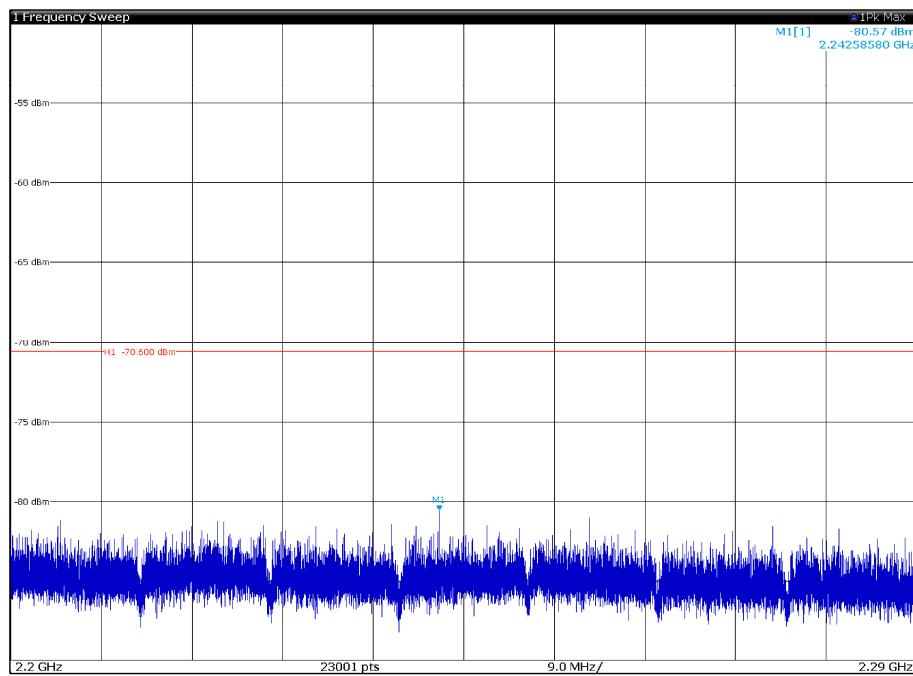
Channel: TOP, Modulation: 16QAM,
 BW=15MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



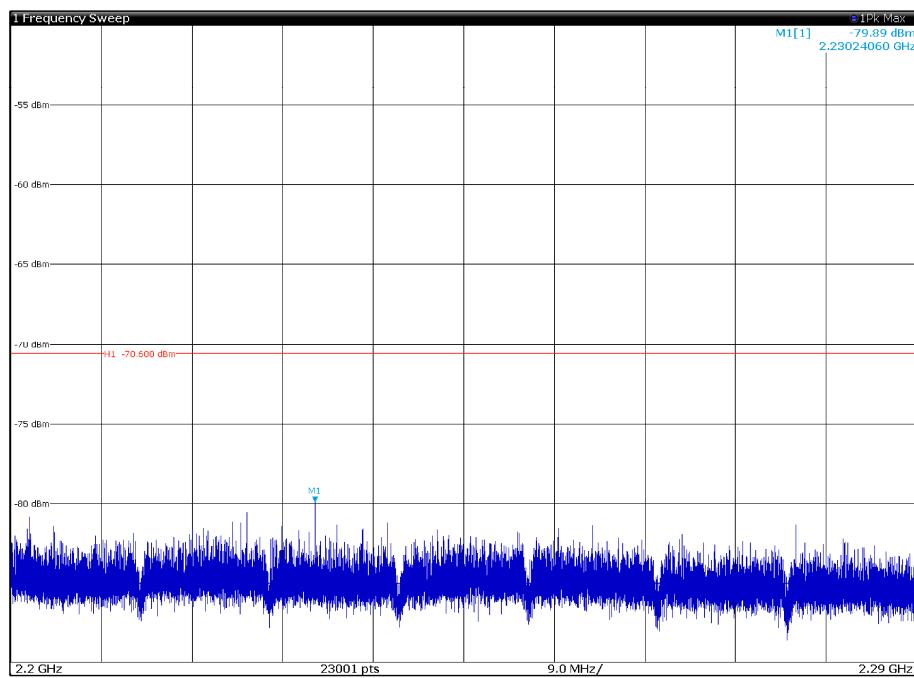
Channel: TOP, Modulation: 16QAM,
 BW=15MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



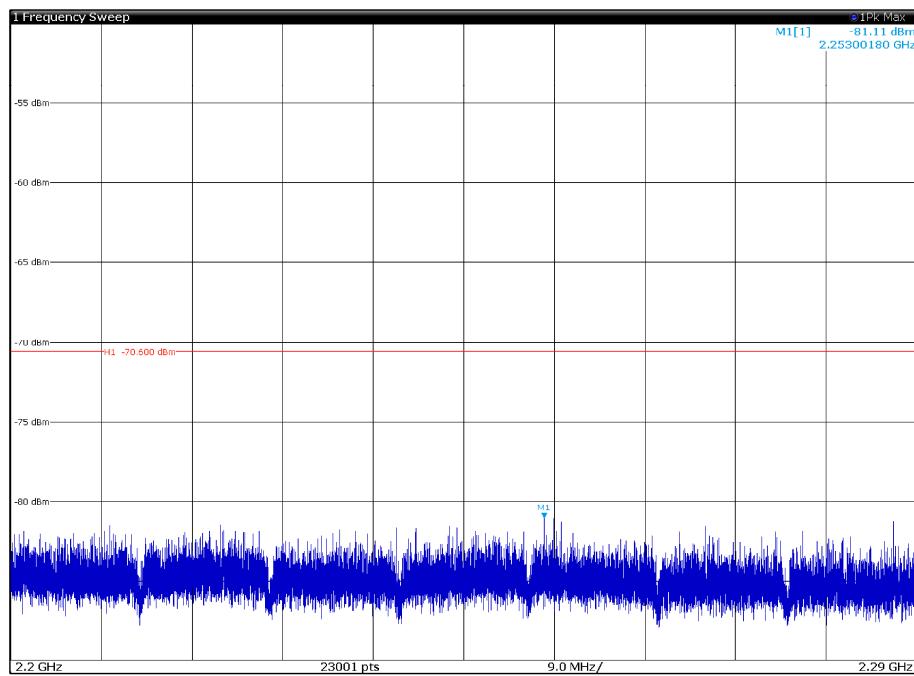
Channel: TOP, Modulation: 64QAM,
BW=15MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



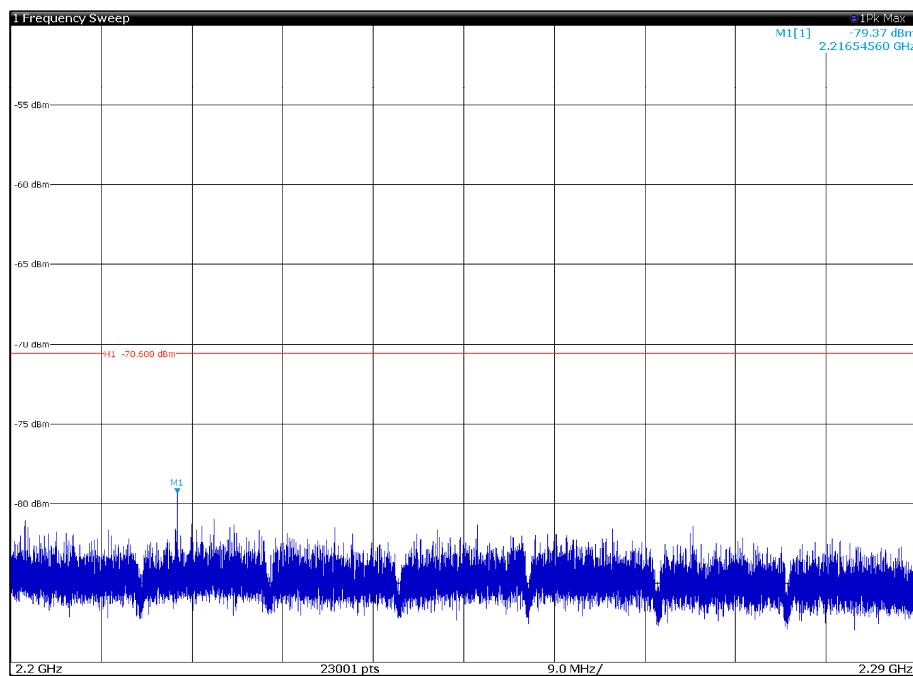
Channel: TOP, Modulation: 64QAM,
BW=15MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



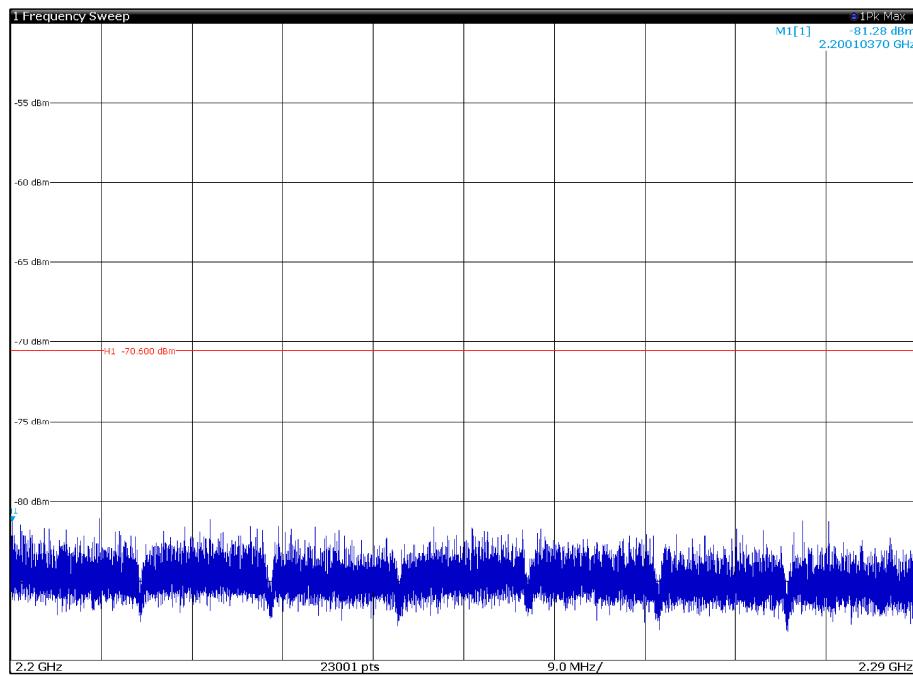
Channel: TOP, Modulation: 256QAM,
BW=15MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



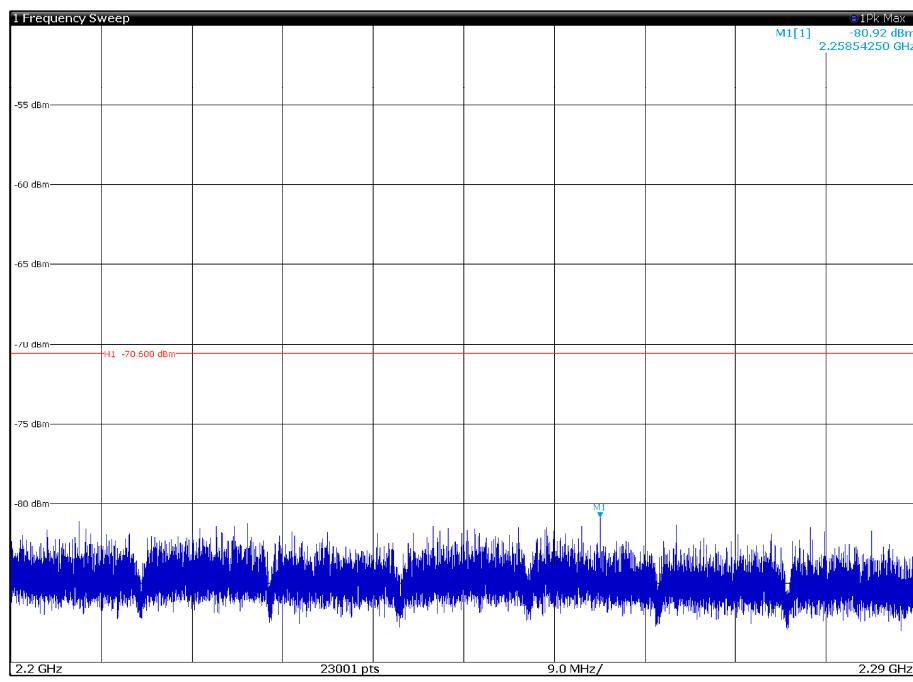
Channel: TOP, Modulation: 256QAM,
BW=15MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



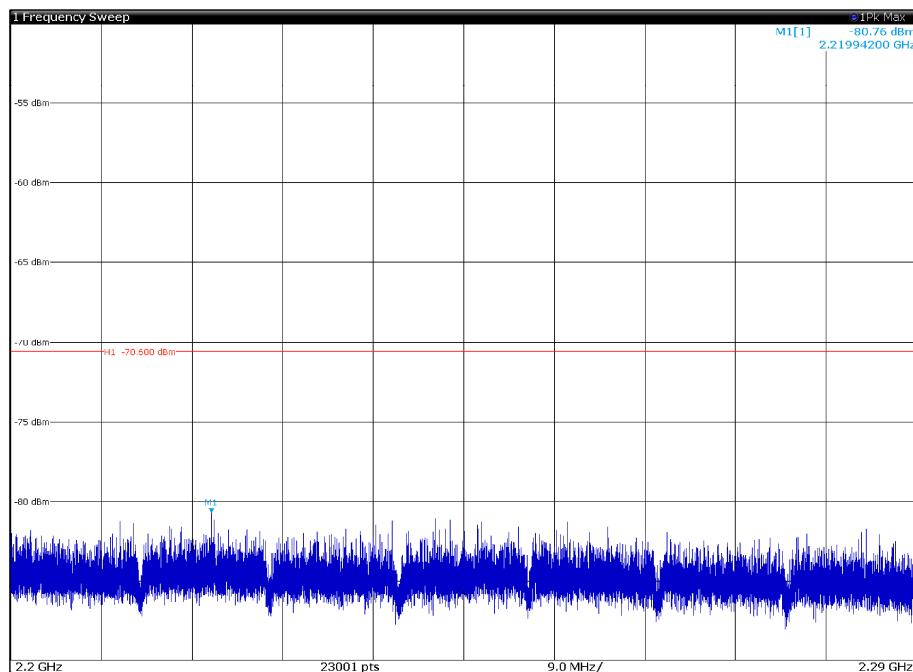
Channel: MIDDLE, Modulation: QPSK,
 BW=20MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



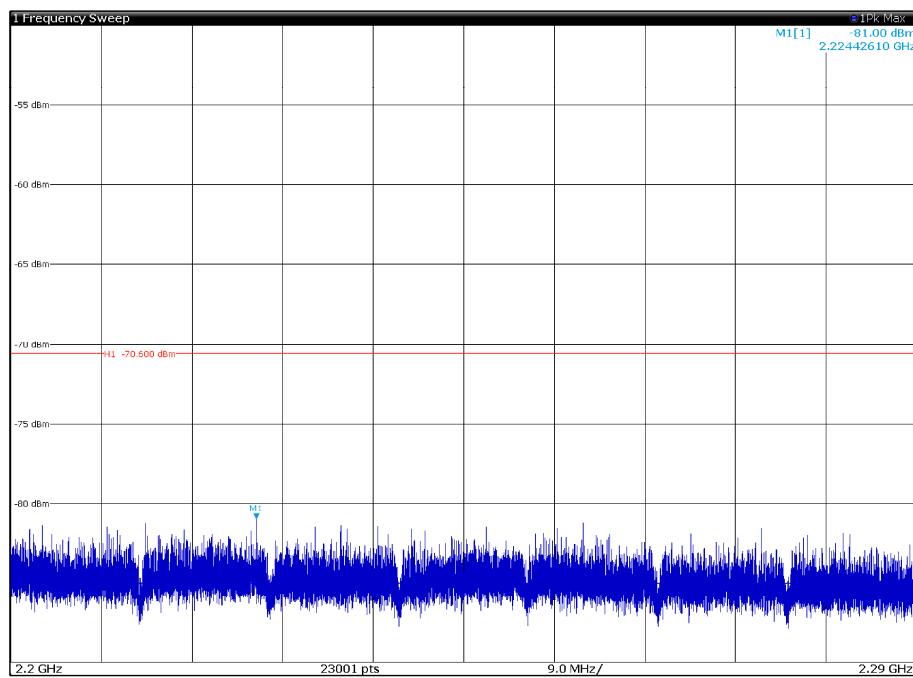
Channel: MIDDLE, Modulation: QPSK,
 BW=20MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



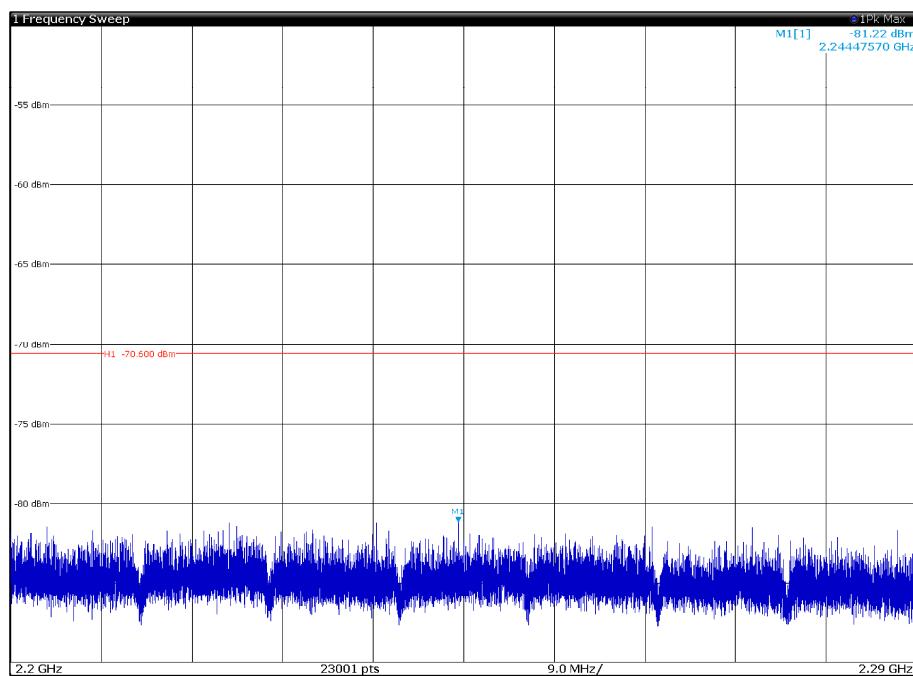
Channel: MIDDLE, Modulation: 16QAM,
BW=20MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



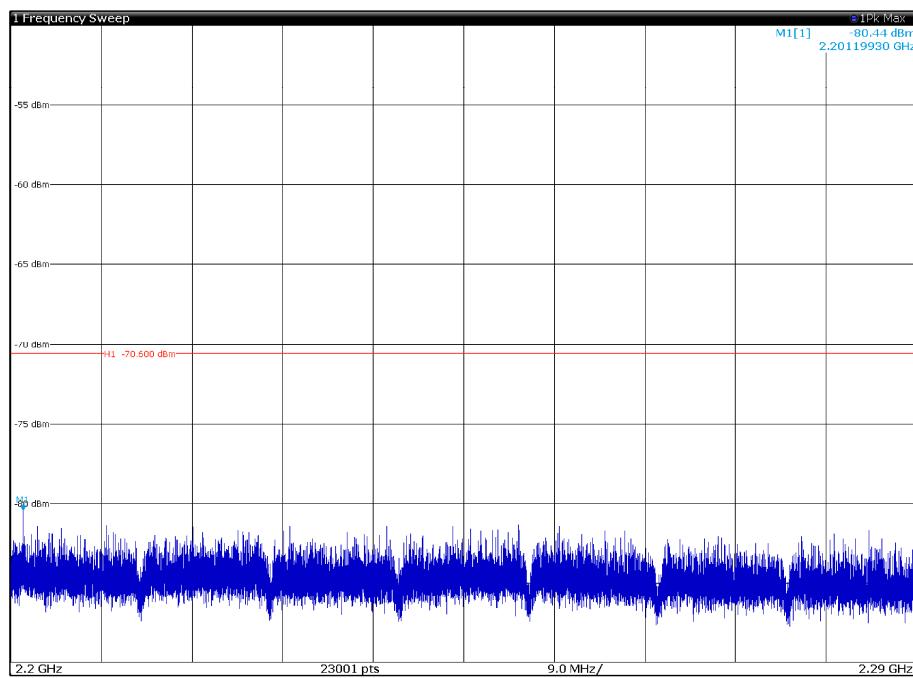
Channel: MIDDLE, Modulation: 16QAM,
BW=20MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



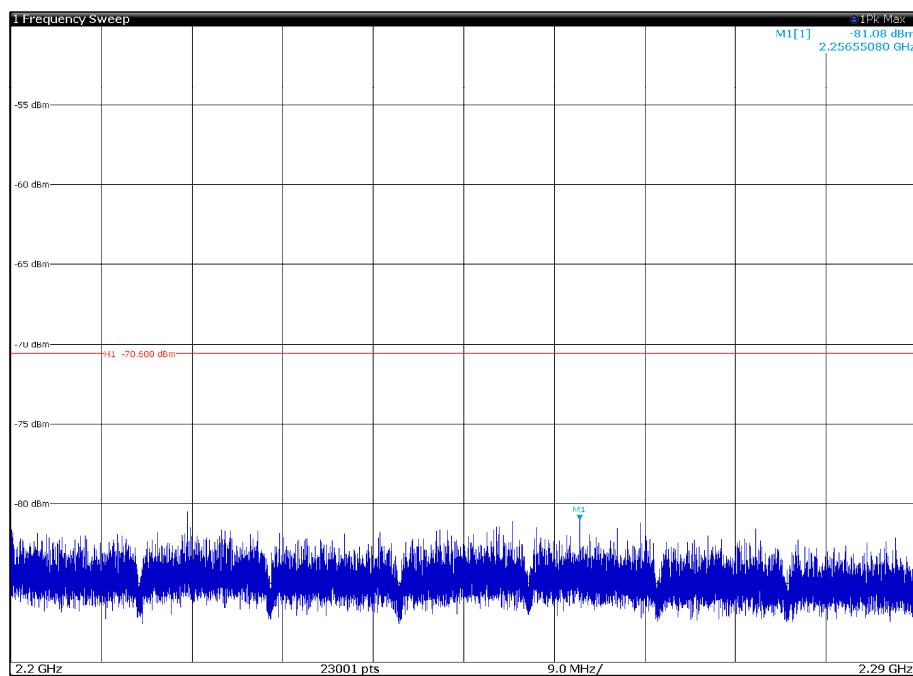
Channel: MIDDLE, Modulation: 64QAM,
BW=20MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



Channel: MIDDLE, Modulation: 64QAM,
BW=20MHz, Range: 2200MHz-2290GHz, Polarization: Vertical



Channel: MIDDLE, Modulation: 256QAM,
BW=20MHz, Range: 2200MHz-2290GHz, Polarization: Horizontal



Channel: MIDDLE, Modulation: 256QAM,
BW=20MHz, Range: 2200MHz-2290GHz, 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

Tests 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	83.63	mHz
BOTTOM	LTE 5 MHz	16QAM	-350.51	mHz
BOTTOM	LTE 5 MHz	64QAM	-144.09	mHz
BOTTOM	LTE 5 MHz	256QAM	-260.15	mHz
MIDDLE	LTE 5 MHz	QPSK	-423.15	mHz
MIDDLE	LTE 5 MHz	16QAM	-191.97	mHz
MIDDLE	LTE 5 MHz	64QAM	-567.75	mHz
MIDDLE	LTE 5 MHz	256QAM	-134.40	mHz
TOP	LTE 5 MHz	QPSK	461.09	mHz
TOP	LTE 5 MHz	16QAM	277.27	mHz
TOP	LTE 5 MHz	64QAM	432.70	mHz
TOP	LTE 5 MHz	256QAM	68.84	mHz
BOTTOM	LTE 10 MHz	QPSK	368.89	mHz
BOTTOM	LTE 10 MHz	16QAM	172.82	mHz
BOTTOM	LTE 10 MHz	64QAM	29.61	mHz
BOTTOM	LTE 10 MHz	256QAM	234.22	mHz
MIDDLE	LTE 10 MHz	QPSK	-1.16	Hz
MIDDLE	LTE 10 MHz	16QAM	-120.28	mHz
MIDDLE	LTE 10 MHz	64QAM	1.39	Hz
MIDDLE	LTE 10 MHz	256QAM	276.75	mHz
TOP	LTE 10 MHz	QPSK	-134.01	mHz
TOP	LTE 10 MHz	16QAM	144.28	mHz
TOP	LTE 10 MHz	64QAM	-0.19	Hz
TOP	LTE 10 MHz	256QAM	-264.28	mHz
BOTTOM	LTE 15 MHz	QPSK	414.29	mHz
BOTTOM	LTE 15 MHz	16QAM	353.46	mHz
BOTTOM	LTE 15 MHz	64QAM	244.63	mHz
BOTTOM	LTE 15 MHz	256QAM	-101.09	mHz
MIDDLE	LTE 15 MHz	QPSK	-1.56	Hz
MIDDLE	LTE 15 MHz	16QAM	-1.70	Hz
MIDDLE	LTE 15 MHz	64QAM	-1.76	Hz
MIDDLE	LTE 15 MHz	256QAM	174.42	mHz
TOP	LTE 15 MHz	QPSK	241.50	mHz
TOP	LTE 15 MHz	16QAM	206.37	mHz
TOP	LTE 15 MHz	64QAM	-111.65	mHz
TOP	LTE 15 MHz	256QAM	324.03	mHz
MIDDLE	LTE 20 MHz	QPSK	-1.73	Hz
MIDDLE	LTE 20 MHz	16QAM	1.10	Hz
MIDDLE	LTE 20 MHz	64QAM	1.36	Hz
MIDDLE	LTE 20 MHz	256QAM	67.48	mHz



Temperature = -20°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-331.28	mHz
BOTTOM	LTE 5 MHz	16QAM	152.61	mHz
BOTTOM	LTE 5 MHz	64QAM	0.63	Hz
BOTTOM	LTE 5 MHz	256QAM	77.85	mHz
MIDDLE	LTE 5 MHz	QPSK	729.25	mHz
MIDDLE	LTE 5 MHz	16QAM	413.59	mHz
MIDDLE	LTE 5 MHz	64QAM	59.44	mHz
MIDDLE	LTE 5 MHz	256QAM	1.15	Hz
TOP	LTE 5 MHz	QPSK	-358.24	mHz
TOP	LTE 5 MHz	16QAM	-172.73	mHz
TOP	LTE 5 MHz	64QAM	133.33	mHz
TOP	LTE 5 MHz	256QAM	36.00	mHz
BOTTOM	LTE 10 MHz	QPSK	107.44	mHz
BOTTOM	LTE 10 MHz	16QAM	-327.92	mHz
BOTTOM	LTE 10 MHz	64QAM	-295.55	mHz
BOTTOM	LTE 10 MHz	256QAM	-309.99	mHz
MIDDLE	LTE 10 MHz	QPSK	-791.90	mHz
MIDDLE	LTE 10 MHz	16QAM	1.26	Hz
MIDDLE	LTE 10 MHz	64QAM	908.20	mHz
MIDDLE	LTE 10 MHz	256QAM	-511.49	mHz
TOP	LTE 10 MHz	QPSK	-0.83	Hz
TOP	LTE 10 MHz	16QAM	362.39	mHz
TOP	LTE 10 MHz	64QAM	-282.41	mHz
TOP	LTE 10 MHz	256QAM	263.73	mHz
BOTTOM	LTE 15 MHz	QPSK	27.37	mHz
BOTTOM	LTE 15 MHz	16QAM	459.89	mHz
BOTTOM	LTE 15 MHz	64QAM	-226.64	mHz
BOTTOM	LTE 15 MHz	256QAM	-307.47	mHz
MIDDLE	LTE 15 MHz	QPSK	668.23	mHz
MIDDLE	LTE 15 MHz	16QAM	-560.38	mHz
MIDDLE	LTE 15 MHz	64QAM	-259.13	mHz
MIDDLE	LTE 15 MHz	256QAM	-871.81	mHz
TOP	LTE 15 MHz	QPSK	22.00	mHz
TOP	LTE 15 MHz	16QAM	406.90	mHz
TOP	LTE 15 MHz	64QAM	-59.86	mHz
TOP	LTE 15 MHz	256QAM	-286.00	mHz
MIDDLE	LTE 20 MHz	QPSK	379.60	mHz
MIDDLE	LTE 20 MHz	16QAM	310.51	mHz
MIDDLE	LTE 20 MHz	64QAM	-216.10	mHz
MIDDLE	LTE 20 MHz	256QAM	-311.16	mHz



Temperature = -10°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	263.42	mHz
BOTTOM	LTE 5 MHz	16QAM	423.84	mHz
BOTTOM	LTE 5 MHz	64QAM	-286.86	mHz
BOTTOM	LTE 5 MHz	256QAM	78.85	mHz
MIDDLE	LTE 5 MHz	QPSK	-293.20	mHz
MIDDLE	LTE 5 MHz	16QAM	290.48	mHz
MIDDLE	LTE 5 MHz	64QAM	-782.10	mHz
MIDDLE	LTE 5 MHz	256QAM	-294.87	mHz
TOP	LTE 5 MHz	QPSK	-234.63	mHz
TOP	LTE 5 MHz	16QAM	192.55	mHz
TOP	LTE 5 MHz	64QAM	-275.28	mHz
TOP	LTE 5 MHz	256QAM	-313.89	mHz
BOTTOM	LTE 10 MHz	QPSK	241.80	mHz
BOTTOM	LTE 10 MHz	16QAM	318.40	mHz
BOTTOM	LTE 10 MHz	64QAM	-29.51	mHz
BOTTOM	LTE 10 MHz	256QAM	-177.07	mHz
MIDDLE	LTE 10 MHz	QPSK	-728.97	mHz
MIDDLE	LTE 10 MHz	16QAM	253.43	mHz
MIDDLE	LTE 10 MHz	64QAM	-756.85	mHz
MIDDLE	LTE 10 MHz	256QAM	50.80	mHz
TOP	LTE 10 MHz	QPSK	312.52	mHz
TOP	LTE 10 MHz	16QAM	461.04	mHz
TOP	LTE 10 MHz	64QAM	62.02	mHz
TOP	LTE 10 MHz	256QAM	77.86	mHz
BOTTOM	LTE 15 MHz	QPSK	-203.91	mHz
BOTTOM	LTE 15 MHz	16QAM	58.28	mHz
BOTTOM	LTE 15 MHz	64QAM	366.06	mHz
BOTTOM	LTE 15 MHz	256QAM	137.46	mHz
MIDDLE	LTE 15 MHz	QPSK	-102.69	mHz
MIDDLE	LTE 15 MHz	16QAM	-220.00	mHz
MIDDLE	LTE 15 MHz	64QAM	-892.83	mHz
MIDDLE	LTE 15 MHz	256QAM	-461.38	mHz
TOP	LTE 15 MHz	QPSK	452.68	mHz
TOP	LTE 15 MHz	16QAM	-249.33	mHz
TOP	LTE 15 MHz	64QAM	404.63	mHz
TOP	LTE 15 MHz	256QAM	0.95	Hz
MIDDLE	LTE 20 MHz	QPSK	363.26	mHz
MIDDLE	LTE 20 MHz	16QAM	491.33	mHz
MIDDLE	LTE 20 MHz	64QAM	439.01	mHz
MIDDLE	LTE 20 MHz	256QAM	-148.59	mHz



Temperature = 0°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-222.36	mHz
BOTTOM	LTE 5 MHz	16QAM	260.91	mHz
BOTTOM	LTE 5 MHz	64QAM	-41.06	mHz
BOTTOM	LTE 5 MHz	256QAM	-40.63	mHz
MIDDLE	LTE 5 MHz	QPSK	-1.99	Hz
MIDDLE	LTE 5 MHz	16QAM	-1.96	Hz
MIDDLE	LTE 5 MHz	64QAM	-1.25	Hz
MIDDLE	LTE 5 MHz	256QAM	77.11	mHz
TOP	LTE 5 MHz	QPSK	359.15	mHz
TOP	LTE 5 MHz	16QAM	-1.76	Hz
TOP	LTE 5 MHz	64QAM	136.40	mHz
TOP	LTE 5 MHz	256QAM	-46.66	mHz
BOTTOM	LTE 10 MHz	QPSK	310.57	mHz
BOTTOM	LTE 10 MHz	16QAM	-304.37	mHz
BOTTOM	LTE 10 MHz	64QAM	61.55	mHz
BOTTOM	LTE 10 MHz	256QAM	-60.46	mHz
MIDDLE	LTE 10 MHz	QPSK	-1.71	Hz
MIDDLE	LTE 10 MHz	16QAM	-2.45	Hz
MIDDLE	LTE 10 MHz	64QAM	-109.04	mHz
MIDDLE	LTE 10 MHz	256QAM	-230.21	mHz
TOP	LTE 10 MHz	QPSK	-378.88	mHz
TOP	LTE 10 MHz	16QAM	182.03	mHz
TOP	LTE 10 MHz	64QAM	176.68	mHz
TOP	LTE 10 MHz	256QAM	374.42	mHz
BOTTOM	LTE 15 MHz	QPSK	482.64	mHz
BOTTOM	LTE 15 MHz	16QAM	0.61	Hz
BOTTOM	LTE 15 MHz	64QAM	356.15	mHz
BOTTOM	LTE 15 MHz	256QAM	468.74	mHz
MIDDLE	LTE 15 MHz	QPSK	-2.31	Hz
MIDDLE	LTE 15 MHz	16QAM	-642.36	mHz
MIDDLE	LTE 15 MHz	64QAM	2.16	Hz
MIDDLE	LTE 15 MHz	256QAM	-0.38	Hz
TOP	LTE 15 MHz	QPSK	-128.55	mHz
TOP	LTE 15 MHz	16QAM	-108.89	mHz
TOP	LTE 15 MHz	64QAM	126.41	mHz
TOP	LTE 15 MHz	256QAM	-175.57	mHz
MIDDLE	LTE 20 MHz	QPSK	187.78	mHz
MIDDLE	LTE 20 MHz	16QAM	292.90	mHz
MIDDLE	LTE 20 MHz	64QAM	-261.46	mHz
MIDDLE	LTE 20 MHz	256QAM	-308.87	mHz



Temperature = 10°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	118.90	mHz
BOTTOM	LTE 5 MHz	16QAM	-27.51	mHz
BOTTOM	LTE 5 MHz	64QAM	302.72	mHz
BOTTOM	LTE 5 MHz	256QAM	-106.36	mHz
MIDDLE	LTE 5 MHz	QPSK	73.45	mHz
MIDDLE	LTE 5 MHz	16QAM	-455.91	mHz
MIDDLE	LTE 5 MHz	64QAM	263.66	mHz
MIDDLE	LTE 5 MHz	256QAM	127.44	mHz
TOP	LTE 5 MHz	QPSK	135.97	mHz
TOP	LTE 5 MHz	16QAM	267.46	mHz
TOP	LTE 5 MHz	64QAM	-220.12	mHz
TOP	LTE 5 MHz	256QAM	-320.64	mHz
BOTTOM	LTE 10 MHz	QPSK	-235.29	mHz
BOTTOM	LTE 10 MHz	16QAM	239.11	mHz
BOTTOM	LTE 10 MHz	64QAM	-156.87	mHz
BOTTOM	LTE 10 MHz	256QAM	218.16	mHz
MIDDLE	LTE 10 MHz	QPSK	-110.99	mHz
MIDDLE	LTE 10 MHz	16QAM	435.21	mHz
MIDDLE	LTE 10 MHz	64QAM	-586.86	mHz
MIDDLE	LTE 10 MHz	256QAM	-212.59	mHz
TOP	LTE 10 MHz	QPSK	66.82	mHz
TOP	LTE 10 MHz	16QAM	310.56	mHz
TOP	LTE 10 MHz	64QAM	-146.36	mHz
TOP	LTE 10 MHz	256QAM	357.39	mHz
BOTTOM	LTE 15 MHz	QPSK	-395.88	mHz
BOTTOM	LTE 15 MHz	16QAM	145.07	mHz
BOTTOM	LTE 15 MHz	64QAM	41.93	mHz
BOTTOM	LTE 15 MHz	256QAM	-147.91	mHz
MIDDLE	LTE 15 MHz	QPSK	325.64	mHz
MIDDLE	LTE 15 MHz	16QAM	353.58	mHz
MIDDLE	LTE 15 MHz	64QAM	1.66	Hz
MIDDLE	LTE 15 MHz	256QAM	-174.36	mHz
TOP	LTE 15 MHz	QPSK	410.07	mHz
TOP	LTE 15 MHz	16QAM	218.94	mHz
TOP	LTE 15 MHz	64QAM	55.33	mHz
TOP	LTE 15 MHz	256QAM	-1.53	Hz
MIDDLE	LTE 20 MHz	QPSK	342.25	mHz
MIDDLE	LTE 20 MHz	16QAM	51.49	mHz
MIDDLE	LTE 20 MHz	64QAM	-255.29	mHz
MIDDLE	LTE 20 MHz	256QAM	-37.67	mHz



Temperature = 20°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-3.685	Hz
BOTTOM	LTE 5 MHz	16QAM	4.9333	Hz
BOTTOM	LTE 5 MHz	64QAM	-4.184	Hz
BOTTOM	LTE 5 MHz	256QAM	733.94	mHz
MIDDLE	LTE 5 MHz	QPSK	-2.998	Hz
MIDDLE	LTE 5 MHz	16QAM	-6.886	Hz
MIDDLE	LTE 5 MHz	64QAM	-821.5	mHz
MIDDLE	LTE 5 MHz	256QAM	123.19	mHz
TOP	LTE 5 MHz	QPSK	2.5238	Hz
TOP	LTE 5 MHz	16QAM	2.1978	Hz
TOP	LTE 5 MHz	64QAM	329.56	mHz
TOP	LTE 5 MHz	256QAM	1.4702	Hz
BOTTOM	LTE 10 MHz	QPSK	1.0499	Hz
BOTTOM	LTE 10 MHz	16QAM	-3.548	Hz
BOTTOM	LTE 10 MHz	64QAM	1.1807	Hz
BOTTOM	LTE 10 MHz	256QAM	1.0064	Hz
MIDDLE	LTE 10 MHz	QPSK	471.83	mHz
MIDDLE	LTE 10 MHz	16QAM	-1.882	Hz
MIDDLE	LTE 10 MHz	64QAM	-1.662	Hz
MIDDLE	LTE 10 MHz	256QAM	243.82	mHz
TOP	LTE 10 MHz	QPSK	118.03	mHz
TOP	LTE 10 MHz	16QAM	-1.375	Hz
TOP	LTE 10 MHz	64QAM	-1.769	Hz
TOP	LTE 10 MHz	256QAM	1.3952	Hz
BOTTOM	LTE 15 MHz	QPSK	-76.76	mHz
BOTTOM	LTE 15 MHz	16QAM	2.573	Hz
BOTTOM	LTE 15 MHz	64QAM	158.54	mHz
BOTTOM	LTE 15 MHz	256QAM	1.9461	Hz
MIDDLE	LTE 15 MHz	QPSK	1.2576	Hz
MIDDLE	LTE 15 MHz	16QAM	3.3747	Hz
MIDDLE	LTE 15 MHz	64QAM	292.43	mHz
MIDDLE	LTE 15 MHz	256QAM	-1.121	Hz
TOP	LTE 15 MHz	QPSK	3.274	Hz
TOP	LTE 15 MHz	16QAM	4.6352	Hz
TOP	LTE 15 MHz	64QAM	-99.6	mHz
TOP	LTE 15 MHz	256QAM	8.0165	Hz
MIDDLE	LTE 20 MHz	QPSK	-1.219	Hz
MIDDLE	LTE 20 MHz	16QAM	-364.1	mHz
MIDDLE	LTE 20 MHz	64QAM	-5.52	Hz
MIDDLE	LTE 20 MHz	256QAM	831.15	mHz



Temperature = 30°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	427.35	mHz
BOTTOM	LTE 5 MHz	16QAM	287.39	mHz
BOTTOM	LTE 5 MHz	64QAM	-284.40	mHz
BOTTOM	LTE 5 MHz	256QAM	63.72	mHz
MIDDLE	LTE 5 MHz	QPSK	426.30	mHz
MIDDLE	LTE 5 MHz	16QAM	0.79	Hz
MIDDLE	LTE 5 MHz	64QAM	77.74	mHz
MIDDLE	LTE 5 MHz	256QAM	215.01	mHz
TOP	LTE 5 MHz	QPSK	453.31	mHz
TOP	LTE 5 MHz	16QAM	-1.17	Hz
TOP	LTE 5 MHz	64QAM	-227.90	mHz
TOP	LTE 5 MHz	256QAM	-258.70	mHz
BOTTOM	LTE 10 MHz	QPSK	-297.45	mHz
BOTTOM	LTE 10 MHz	16QAM	-396.72	mHz
BOTTOM	LTE 10 MHz	64QAM	385.38	mHz
BOTTOM	LTE 10 MHz	256QAM	389.05	mHz
MIDDLE	LTE 10 MHz	QPSK	146.26	mHz
MIDDLE	LTE 10 MHz	16QAM	316.08	mHz
MIDDLE	LTE 10 MHz	64QAM	112.87	mHz
MIDDLE	LTE 10 MHz	256QAM	-371.19	mHz
TOP	LTE 10 MHz	QPSK	101.39	mHz
TOP	LTE 10 MHz	16QAM	-78.98	mHz
TOP	LTE 10 MHz	64QAM	442.02	mHz
TOP	LTE 10 MHz	256QAM	163.86	mHz
BOTTOM	LTE 15 MHz	QPSK	-171.64	mHz
BOTTOM	LTE 15 MHz	16QAM	219.73	mHz
BOTTOM	LTE 15 MHz	64QAM	339.16	mHz
BOTTOM	LTE 15 MHz	256QAM	-193.52	mHz
MIDDLE	LTE 15 MHz	QPSK	-1.72	Hz
MIDDLE	LTE 15 MHz	16QAM	223.67	mHz
MIDDLE	LTE 15 MHz	64QAM	-169.46	mHz
MIDDLE	LTE 15 MHz	256QAM	-76.90	mHz
TOP	LTE 15 MHz	QPSK	391.11	mHz
TOP	LTE 15 MHz	16QAM	-320.42	mHz
TOP	LTE 15 MHz	64QAM	140.64	mHz
TOP	LTE 15 MHz	256QAM	71.49	mHz
MIDDLE	LTE 20 MHz	QPSK	-100.68	mHz
MIDDLE	LTE 20 MHz	16QAM	322.12	mHz
MIDDLE	LTE 20 MHz	64QAM	-337.54	mHz
MIDDLE	LTE 20 MHz	256QAM	-152.36	mHz



Temperature = 40°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	116.57	mHz
BOTTOM	LTE 5 MHz	16QAM	377.27	mHz
BOTTOM	LTE 5 MHz	64QAM	-169.14	mHz
BOTTOM	LTE 5 MHz	256QAM	174.19	mHz
MIDDLE	LTE 5 MHz	QPSK	1.32	Hz
MIDDLE	LTE 5 MHz	16QAM	1.65	Hz
MIDDLE	LTE 5 MHz	64QAM	1.48	Hz
MIDDLE	LTE 5 MHz	256QAM	-213.16	mHz
TOP	LTE 5 MHz	QPSK	-310.07	mHz
TOP	LTE 5 MHz	16QAM	-182.70	mHz
TOP	LTE 5 MHz	64QAM	333.30	mHz
TOP	LTE 5 MHz	256QAM	445.37	mHz
BOTTOM	LTE 10 MHz	QPSK	357.13	mHz
BOTTOM	LTE 10 MHz	16QAM	27.70	mHz
BOTTOM	LTE 10 MHz	64QAM	-373.33	mHz
BOTTOM	LTE 10 MHz	256QAM	-0.50	Hz
MIDDLE	LTE 10 MHz	QPSK	1.11	Hz
MIDDLE	LTE 10 MHz	16QAM	-650.32	mHz
MIDDLE	LTE 10 MHz	64QAM	1.73	Hz
MIDDLE	LTE 10 MHz	256QAM	-375.98	mHz
TOP	LTE 10 MHz	QPSK	388.41	mHz
TOP	LTE 10 MHz	16QAM	63.35	mHz
TOP	LTE 10 MHz	64QAM	20.24	mHz
TOP	LTE 10 MHz	256QAM	-167.38	mHz
BOTTOM	LTE 15 MHz	QPSK	-355.45	mHz
BOTTOM	LTE 15 MHz	16QAM	123.89	mHz
BOTTOM	LTE 15 MHz	64QAM	-309.17	mHz
BOTTOM	LTE 15 MHz	256QAM	76.10	mHz
MIDDLE	LTE 15 MHz	QPSK	1.83	Hz
MIDDLE	LTE 15 MHz	16QAM	1.90	Hz
MIDDLE	LTE 15 MHz	64QAM	-1.20	Hz
MIDDLE	LTE 15 MHz	256QAM	-165.85	mHz
TOP	LTE 15 MHz	QPSK	-128.72	mHz
TOP	LTE 15 MHz	16QAM	-351.01	mHz
TOP	LTE 15 MHz	64QAM	-229.53	mHz
TOP	LTE 15 MHz	256QAM	311.06	mHz
MIDDLE	LTE 20 MHz	QPSK	-44.26	mHz
MIDDLE	LTE 20 MHz	16QAM	27.95	mHz
MIDDLE	LTE 20 MHz	64QAM	266.47	mHz
MIDDLE	LTE 20 MHz	256QAM	311.99	mHz



Temperature = 50°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	198.56	mHz
BOTTOM	LTE 5 MHz	16QAM	-146.61	mHz
BOTTOM	LTE 5 MHz	64QAM	332.58	mHz
BOTTOM	LTE 5 MHz	256QAM	-351.68	mHz
MIDDLE	LTE 5 MHz	QPSK	186.40	mHz
MIDDLE	LTE 5 MHz	16QAM	863.92	mHz
MIDDLE	LTE 5 MHz	64QAM	1.53	Hz
MIDDLE	LTE 5 MHz	256QAM	829.96	mHz
TOP	LTE 5 MHz	QPSK	-54.74	mHz
TOP	LTE 5 MHz	16QAM	77.54	mHz
TOP	LTE 5 MHz	64QAM	466.78	mHz
TOP	LTE 5 MHz	256QAM	-209.35	mHz
BOTTOM	LTE 10 MHz	QPSK	62.70	mHz
BOTTOM	LTE 10 MHz	16QAM	479.69	mHz
BOTTOM	LTE 10 MHz	64QAM	343.81	mHz
BOTTOM	LTE 10 MHz	256QAM	-297.80	mHz
MIDDLE	LTE 10 MHz	QPSK	2.69	Hz
MIDDLE	LTE 10 MHz	16QAM	-1.50	Hz
MIDDLE	LTE 10 MHz	64QAM	2.39	Hz
MIDDLE	LTE 10 MHz	256QAM	1.25	Hz
TOP	LTE 10 MHz	QPSK	251.95	mHz
TOP	LTE 10 MHz	16QAM	-1.07	Hz
TOP	LTE 10 MHz	64QAM	403.45	mHz
TOP	LTE 10 MHz	256QAM	-376.43	mHz
BOTTOM	LTE 15 MHz	QPSK	-245.50	mHz
BOTTOM	LTE 15 MHz	16QAM	477.41	mHz
BOTTOM	LTE 15 MHz	64QAM	-82.42	mHz
BOTTOM	LTE 15 MHz	256QAM	398.51	mHz
MIDDLE	LTE 15 MHz	QPSK	877.39	mHz
MIDDLE	LTE 15 MHz	16QAM	1.46	Hz
MIDDLE	LTE 15 MHz	64QAM	334.49	mHz
MIDDLE	LTE 15 MHz	256QAM	-68.83	mHz
TOP	LTE 15 MHz	QPSK	-207.65	mHz
TOP	LTE 15 MHz	16QAM	-358.44	mHz
TOP	LTE 15 MHz	64QAM	-157.64	mHz
TOP	LTE 15 MHz	256QAM	-26.47	mHz
MIDDLE	LTE 20 MHz	QPSK	81.30	mHz
MIDDLE	LTE 20 MHz	16QAM	371.89	mHz
MIDDLE	LTE 20 MHz	64QAM	498.63	mHz
MIDDLE	LTE 20 MHz	256QAM	438.37	mHz

**RF PORT 2**

Temperature = -30°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-723.24	mHz
BOTTOM	LTE 5 MHz	16QAM	-501.14	mHz
BOTTOM	LTE 5 MHz	64QAM	751.58	mHz
BOTTOM	LTE 5 MHz	256QAM	-534.68	mHz
MIDDLE	LTE 5 MHz	QPSK	-397.23	mHz
MIDDLE	LTE 5 MHz	16QAM	-222.33	mHz
MIDDLE	LTE 5 MHz	64QAM	489.75	mHz
MIDDLE	LTE 5 MHz	256QAM	4.64	Hz
TOP	LTE 5 MHz	QPSK	4.78	Hz
TOP	LTE 5 MHz	16QAM	875.18	mHz
TOP	LTE 5 MHz	64QAM	703.85	mHz
TOP	LTE 5 MHz	256QAM	646.05	mHz
BOTTOM	LTE 10 MHz	QPSK	-2.88	Hz
BOTTOM	LTE 10 MHz	16QAM	760.98	mHz
BOTTOM	LTE 10 MHz	64QAM	866.21	mHz
BOTTOM	LTE 10 MHz	256QAM	311.94	mHz
MIDDLE	LTE 10 MHz	QPSK	-1.33	Hz
MIDDLE	LTE 10 MHz	16QAM	-366.04	mHz
MIDDLE	LTE 10 MHz	64QAM	-280.31	mHz
MIDDLE	LTE 10 MHz	256QAM	-237.23	Hz
TOP	LTE 10 MHz	QPSK	36.50	mHz
TOP	LTE 10 MHz	16QAM	-2.87	Hz
TOP	LTE 10 MHz	64QAM	-544.13	mHz
TOP	LTE 10 MHz	256QAM	880.81	mHz
BOTTOM	LTE 15 MHz	QPSK	533.11	mHz
BOTTOM	LTE 15 MHz	16QAM	599.99	mHz
BOTTOM	LTE 15 MHz	64QAM	-516.89	mHz
BOTTOM	LTE 15 MHz	256QAM	-215.57	mHz
MIDDLE	LTE 15 MHz	QPSK	-474.95	mHz
MIDDLE	LTE 15 MHz	16QAM	202.40	mHz
MIDDLE	LTE 15 MHz	64QAM	-328.07	mHz
MIDDLE	LTE 15 MHz	256QAM	214.71	mHz
TOP	LTE 15 MHz	QPSK	-765.30	mHz
TOP	LTE 15 MHz	16QAM	1.91	Hz
TOP	LTE 15 MHz	64QAM	620.07	mHz
TOP	LTE 15 MHz	256QAM	819.78	mHz
MIDDLE	LTE 20 MHz	QPSK	-771.27	mHz
MIDDLE	LTE 20 MHz	16QAM	-237.69	mHz
MIDDLE	LTE 20 MHz	64QAM	340.86	mHz
MIDDLE	LTE 20 MHz	256QAM	49.05	mHz



Temperature = -20°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-66.02	mHz
BOTTOM	LTE 5 MHz	16QAM	-228.29	mHz
BOTTOM	LTE 5 MHz	64QAM	-220.44	mHz
BOTTOM	LTE 5 MHz	256QAM	-334.67	mHz
MIDDLE	LTE 5 MHz	QPSK	2.81	Hz
MIDDLE	LTE 5 MHz	16QAM	103.83	mHz
MIDDLE	LTE 5 MHz	64QAM	-151.24	mHz
MIDDLE	LTE 5 MHz	256QAM	748.91	mHz
TOP	LTE 5 MHz	QPSK	-7.32	Hz
TOP	LTE 5 MHz	16QAM	886.14	mHz
TOP	LTE 5 MHz	64QAM	-152.34	mHz
TOP	LTE 5 MHz	256QAM	-347.22	mHz
BOTTOM	LTE 10 MHz	QPSK	264.51	mHz
BOTTOM	LTE 10 MHz	16QAM	-3.70	Hz
BOTTOM	LTE 10 MHz	64QAM	551.87	mHz
BOTTOM	LTE 10 MHz	256QAM	716.37	mHz
MIDDLE	LTE 10 MHz	QPSK	218.23	mHz
MIDDLE	LTE 10 MHz	16QAM	-240.17	mHz
MIDDLE	LTE 10 MHz	64QAM	-457.54	mHz
MIDDLE	LTE 10 MHz	256QAM	-733.07	mHz
TOP	LTE 10 MHz	QPSK	75.12	mHz
TOP	LTE 10 MHz	16QAM	-789.09	mHz
TOP	LTE 10 MHz	64QAM	-1.16	Hz
TOP	LTE 10 MHz	256QAM	895.09	mHz
BOTTOM	LTE 15 MHz	QPSK	152.63	mHz
BOTTOM	LTE 15 MHz	16QAM	-40.29	mHz
BOTTOM	LTE 15 MHz	64QAM	-390.59	mHz
BOTTOM	LTE 15 MHz	256QAM	-406.10	mHz
MIDDLE	LTE 15 MHz	QPSK	-687.56	mHz
MIDDLE	LTE 15 MHz	16QAM	-2.22	Hz
MIDDLE	LTE 15 MHz	64QAM	-214.64	mHz
MIDDLE	LTE 15 MHz	256QAM	-446.89	mHz
TOP	LTE 15 MHz	QPSK	-1.65	Hz
TOP	LTE 15 MHz	16QAM	22.51	mHz
TOP	LTE 15 MHz	64QAM	210.62	mHz
TOP	LTE 15 MHz	256QAM	-196.72	mHz
MIDDLE	LTE 20 MHz	QPSK	-27.93	mHz
MIDDLE	LTE 20 MHz	16QAM	350.43	mHz
MIDDLE	LTE 20 MHz	64QAM	-491.73	mHz
MIDDLE	LTE 20 MHz	256QAM	-627.57	mHz



Temperature = -10°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	798.81	mHz
BOTTOM	LTE 5 MHz	16QAM	-419.94	mHz
BOTTOM	LTE 5 MHz	64QAM	-389.42	mHz
BOTTOM	LTE 5 MHz	256QAM	468.08	mHz
MIDDLE	LTE 5 MHz	QPSK	115.84	mHz
MIDDLE	LTE 5 MHz	16QAM	395.53	mHz
MIDDLE	LTE 5 MHz	64QAM	264.60	mHz
MIDDLE	LTE 5 MHz	256QAM	-645.08	mHz
TOP	LTE 5 MHz	QPSK	-3.58	Hz
TOP	LTE 5 MHz	16QAM	-571.10	mHz
TOP	LTE 5 MHz	64QAM	803.16	mHz
TOP	LTE 5 MHz	256QAM	-260.11	mHz
BOTTOM	LTE 10 MHz	QPSK	864.56	mHz
BOTTOM	LTE 10 MHz	16QAM	-42.90	mHz
BOTTOM	LTE 10 MHz	64QAM	-350.94	mHz
BOTTOM	LTE 10 MHz	256QAM	-592.49	mHz
MIDDLE	LTE 10 MHz	QPSK	628.10	mHz
MIDDLE	LTE 10 MHz	16QAM	201.49	mHz
MIDDLE	LTE 10 MHz	64QAM	-205.21	mHz
MIDDLE	LTE 10 MHz	256QAM	-5.06	Hz
TOP	LTE 10 MHz	QPSK	-69.16	mHz
TOP	LTE 10 MHz	16QAM	-524.16	mHz
TOP	LTE 10 MHz	64QAM	-76.68	mHz
TOP	LTE 10 MHz	256QAM	803.32	mHz
BOTTOM	LTE 15 MHz	QPSK	2.72	Hz
BOTTOM	LTE 15 MHz	16QAM	849.51	mHz
BOTTOM	LTE 15 MHz	64QAM	-329.99	mHz
BOTTOM	LTE 15 MHz	256QAM	100.73	mHz
MIDDLE	LTE 15 MHz	QPSK	82.98	mHz
MIDDLE	LTE 15 MHz	16QAM	26.71	mHz
MIDDLE	LTE 15 MHz	64QAM	797.37	mHz
MIDDLE	LTE 15 MHz	256QAM	-5.37	Hz
TOP	LTE 15 MHz	QPSK	3.69	Hz
TOP	LTE 15 MHz	16QAM	-787.26	mHz
TOP	LTE 15 MHz	64QAM	-575.71	mHz
TOP	LTE 15 MHz	256QAM	524.62	mHz
MIDDLE	LTE 20 MHz	QPSK	69.59	mHz
MIDDLE	LTE 20 MHz	16QAM	-718.93	mHz
MIDDLE	LTE 20 MHz	64QAM	748.15	mHz
MIDDLE	LTE 20 MHz	256QAM	-611.88	mHz



Temperature = 0°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-27.52	mHz
BOTTOM	LTE 5 MHz	16QAM	-684.31	mHz
BOTTOM	LTE 5 MHz	64QAM	-829.94	mHz
BOTTOM	LTE 5 MHz	256QAM	-437.65	mHz
MIDDLE	LTE 5 MHz	QPSK	814.14	mHz
MIDDLE	LTE 5 MHz	16QAM	838.89	mHz
MIDDLE	LTE 5 MHz	64QAM	-774.95	mHz
MIDDLE	LTE 5 MHz	256QAM	-606.98	mHz
TOP	LTE 5 MHz	QPSK	-501.97	mHz
TOP	LTE 5 MHz	16QAM	-313.32	mHz
TOP	LTE 5 MHz	64QAM	-2.82	Hz
TOP	LTE 5 MHz	256QAM	-2.23	Hz
BOTTOM	LTE 10 MHz	QPSK	339.26	mHz
BOTTOM	LTE 10 MHz	16QAM	275.98	mHz
BOTTOM	LTE 10 MHz	64QAM	-2.96	Hz
BOTTOM	LTE 10 MHz	256QAM	863.67	mHz
MIDDLE	LTE 10 MHz	QPSK	326.55	mHz
MIDDLE	LTE 10 MHz	16QAM	-616.39	mHz
MIDDLE	LTE 10 MHz	64QAM	-861.53	mHz
MIDDLE	LTE 10 MHz	256QAM	133.32	mHz
TOP	LTE 10 MHz	QPSK	-747.76	mHz
TOP	LTE 10 MHz	16QAM	-4.32	Hz
TOP	LTE 10 MHz	64QAM	-574.25	mHz
TOP	LTE 10 MHz	256QAM	-591.18	mHz
BOTTOM	LTE 15 MHz	QPSK	733.15	mHz
BOTTOM	LTE 15 MHz	16QAM	-672.08	mHz
BOTTOM	LTE 15 MHz	64QAM	643.71	mHz
BOTTOM	LTE 15 MHz	256QAM	-837.96	mHz
MIDDLE	LTE 15 MHz	QPSK	-5.80	Hz
MIDDLE	LTE 15 MHz	16QAM	-541.50	mHz
MIDDLE	LTE 15 MHz	64QAM	-647.02	mHz
MIDDLE	LTE 15 MHz	256QAM	-141.67	mHz
TOP	LTE 15 MHz	QPSK	628.14	mHz
TOP	LTE 15 MHz	16QAM	-49.98	mHz
TOP	LTE 15 MHz	64QAM	-2.41	Hz
TOP	LTE 15 MHz	256QAM	476.55	mHz
MIDDLE	LTE 20 MHz	QPSK	-157.46	mHz
MIDDLE	LTE 20 MHz	16QAM	234.19	mHz
MIDDLE	LTE 20 MHz	64QAM	-3.94	Hz
MIDDLE	LTE 20 MHz	256QAM	-1.03	Hz



Temperature = 10°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-724.37	mHz
BOTTOM	LTE 5 MHz	16QAM	-606.99	mHz
BOTTOM	LTE 5 MHz	64QAM	-655.43	mHz
BOTTOM	LTE 5 MHz	256QAM	896.29	mHz
MIDDLE	LTE 5 MHz	QPSK	-205.41	mHz
MIDDLE	LTE 5 MHz	16QAM	1.63	Hz
MIDDLE	LTE 5 MHz	64QAM	658.97	mHz
MIDDLE	LTE 5 MHz	256QAM	-815.07	mHz
TOP	LTE 5 MHz	QPSK	162.36	mHz
TOP	LTE 5 MHz	16QAM	819.81	mHz
TOP	LTE 5 MHz	64QAM	-815.67	mHz
TOP	LTE 5 MHz	256QAM	3.61	Hz
BOTTOM	LTE 10 MHz	QPSK	-0.40	Hz
BOTTOM	LTE 10 MHz	16QAM	-364.57	mHz
BOTTOM	LTE 10 MHz	64QAM	61.19	mHz
BOTTOM	LTE 10 MHz	256QAM	568.93	mHz
MIDDLE	LTE 10 MHz	QPSK	-328.62	mHz
MIDDLE	LTE 10 MHz	16QAM	209.33	mHz
MIDDLE	LTE 10 MHz	64QAM	778.62	mHz
MIDDLE	LTE 10 MHz	256QAM	-2.71	Hz
TOP	LTE 10 MHz	QPSK	551.75	mHz
TOP	LTE 10 MHz	16QAM	78.43	mHz
TOP	LTE 10 MHz	64QAM	2.87	Hz
TOP	LTE 10 MHz	256QAM	575.61	mHz
BOTTOM	LTE 15 MHz	QPSK	515.07	mHz
BOTTOM	LTE 15 MHz	16QAM	-698.24	mHz
BOTTOM	LTE 15 MHz	64QAM	-505.93	mHz
BOTTOM	LTE 15 MHz	256QAM	606.06	mHz
MIDDLE	LTE 15 MHz	QPSK	139.30	mHz
MIDDLE	LTE 15 MHz	16QAM	527.92	mHz
MIDDLE	LTE 15 MHz	64QAM	-681.45	mHz
MIDDLE	LTE 15 MHz	256QAM	2.85	Hz
TOP	LTE 15 MHz	QPSK	878.14	mHz
TOP	LTE 15 MHz	16QAM	279.37	mHz
TOP	LTE 15 MHz	64QAM	219.77	mHz
TOP	LTE 15 MHz	256QAM	-59.10	mHz
MIDDLE	LTE 20 MHz	QPSK	112.52	mHz
MIDDLE	LTE 20 MHz	16QAM	424.00	mHz
MIDDLE	LTE 20 MHz	64QAM	481.89	mHz
MIDDLE	LTE 20 MHz	256QAM	97.75	mHz



Temperature = 20°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-773.17	mHz
BOTTOM	LTE 5 MHz	16QAM	-878.17	mHz
BOTTOM	LTE 5 MHz	64QAM	697.60	mHz
BOTTOM	LTE 5 MHz	256QAM	868.15	mHz
MIDDLE	LTE 5 MHz	QPSK	88.71	mHz
MIDDLE	LTE 5 MHz	16QAM	-283.40	mHz
MIDDLE	LTE 5 MHz	64QAM	66.40	mHz
MIDDLE	LTE 5 MHz	256QAM	268.41	mHz
TOP	LTE 5 MHz	QPSK	188.38	mHz
TOP	LTE 5 MHz	16QAM	-119.91	mHz
TOP	LTE 5 MHz	64QAM	-30.55	mHz
TOP	LTE 5 MHz	256QAM	764.99	mHz
BOTTOM	LTE 10 MHz	QPSK	-369.11	mHz
BOTTOM	LTE 10 MHz	16QAM	445.25	mHz
BOTTOM	LTE 10 MHz	64QAM	-3.78	Hz
BOTTOM	LTE 10 MHz	256QAM	3.16	Hz
MIDDLE	LTE 10 MHz	QPSK	-866.74	mHz
MIDDLE	LTE 10 MHz	16QAM	-121.17	mHz
MIDDLE	LTE 10 MHz	64QAM	163.37	mHz
MIDDLE	LTE 10 MHz	256QAM	305.70	mHz
TOP	LTE 10 MHz	QPSK	-627.19	mHz
TOP	LTE 10 MHz	16QAM	-277.53	mHz
TOP	LTE 10 MHz	64QAM	-650.38	mHz
TOP	LTE 10 MHz	256QAM	-357.28	mHz
BOTTOM	LTE 15 MHz	QPSK	-489.20	mHz
BOTTOM	LTE 15 MHz	16QAM	-840.15	mHz
BOTTOM	LTE 15 MHz	64QAM	-460.91	mHz
BOTTOM	LTE 15 MHz	256QAM	-1.92	Hz
MIDDLE	LTE 15 MHz	QPSK	-313.79	mHz
MIDDLE	LTE 15 MHz	16QAM	-217.09	mHz
MIDDLE	LTE 15 MHz	64QAM	-273.52	mHz
MIDDLE	LTE 15 MHz	256QAM	-867.81	mHz
TOP	LTE 15 MHz	QPSK	-405.77	mHz
TOP	LTE 15 MHz	16QAM	-1.98	Hz
TOP	LTE 15 MHz	64QAM	833.00	mHz
TOP	LTE 15 MHz	256QAM	458.51	mHz
MIDDLE	LTE 20 MHz	QPSK	-4.76	Hz
MIDDLE	LTE 20 MHz	16QAM	-197.90	mHz
MIDDLE	LTE 20 MHz	64QAM	-1.83	Hz
MIDDLE	LTE 20 MHz	256QAM	289.98	mHz



Temperature = 30°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	514.47	mHz
BOTTOM	LTE 5 MHz	16QAM	559.56	mHz
BOTTOM	LTE 5 MHz	64QAM	765.38	mHz
BOTTOM	LTE 5 MHz	256QAM	-2.87	Hz
MIDDLE	LTE 5 MHz	QPSK	-100.96	mHz
MIDDLE	LTE 5 MHz	16QAM	-312.63	mHz
MIDDLE	LTE 5 MHz	64QAM	643.18	mHz
MIDDLE	LTE 5 MHz	256QAM	-3.67	Hz
TOP	LTE 5 MHz	QPSK	695.57	mHz
TOP	LTE 5 MHz	16QAM	-175.82	mHz
TOP	LTE 5 MHz	64QAM	-745.22	mHz
TOP	LTE 5 MHz	256QAM	647.72	mHz
BOTTOM	LTE 10 MHz	QPSK	1.65	Hz
BOTTOM	LTE 10 MHz	16QAM	-1.79	Hz
BOTTOM	LTE 10 MHz	64QAM	747.92	mHz
BOTTOM	LTE 10 MHz	256QAM	-699.43	mHz
MIDDLE	LTE 10 MHz	QPSK	-724.48	mHz
MIDDLE	LTE 10 MHz	16QAM	-107.98	mHz
MIDDLE	LTE 10 MHz	64QAM	-685.26	mHz
MIDDLE	LTE 10 MHz	256QAM	-335.59	mHz
TOP	LTE 10 MHz	QPSK	734.99	mHz
TOP	LTE 10 MHz	16QAM	156.58	mHz
TOP	LTE 10 MHz	64QAM	777.43	mHz
TOP	LTE 10 MHz	256QAM	220.57	mHz
BOTTOM	LTE 15 MHz	QPSK	-3.35	Hz
BOTTOM	LTE 15 MHz	16QAM	-757.11	mHz
BOTTOM	LTE 15 MHz	64QAM	202.97	mHz
BOTTOM	LTE 15 MHz	256QAM	50.76	mHz
MIDDLE	LTE 15 MHz	QPSK	-353.87	mHz
MIDDLE	LTE 15 MHz	16QAM	-811.36	mHz
MIDDLE	LTE 15 MHz	64QAM	397.95	mHz
MIDDLE	LTE 15 MHz	256QAM	-2.60	Hz
TOP	LTE 15 MHz	QPSK	-84.49	mHz
TOP	LTE 15 MHz	16QAM	354.65	mHz
TOP	LTE 15 MHz	64QAM	75.75	mHz
TOP	LTE 15 MHz	256QAM	2.75	Hz
MIDDLE	LTE 20 MHz	QPSK	349.39	mHz
MIDDLE	LTE 20 MHz	16QAM	559.39	mHz
MIDDLE	LTE 20 MHz	64QAM	697.08	mHz
MIDDLE	LTE 20 MHz	256QAM	-34.69	mHz



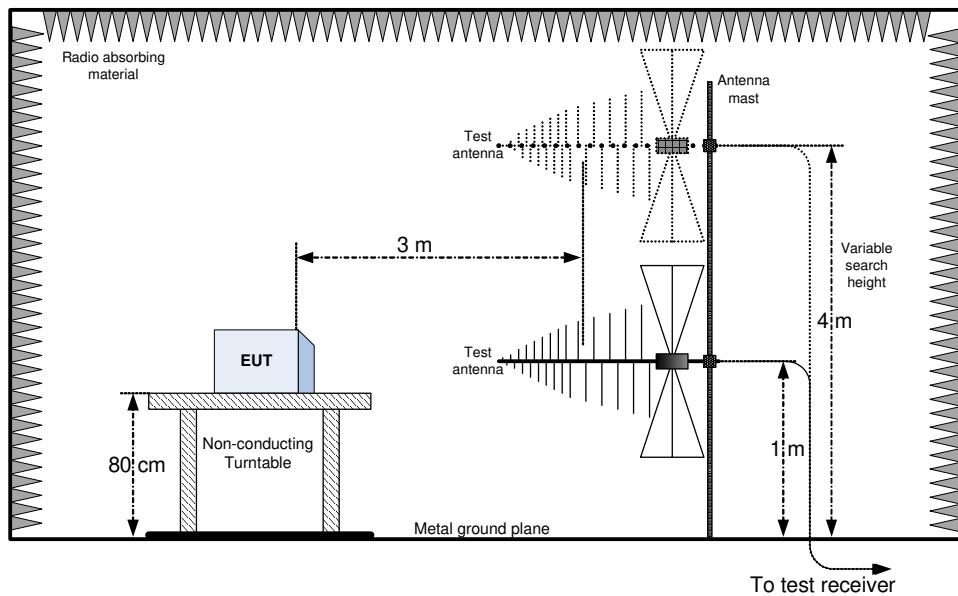
Temperature = 40°C				
Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	475.02	mHz
BOTTOM	LTE 5 MHz	16QAM	-41.94	mHz
BOTTOM	LTE 5 MHz	64QAM	-420.64	mHz
BOTTOM	LTE 5 MHz	256QAM	-658.17	mHz
MIDDLE	LTE 5 MHz	QPSK	-877.15	mHz
MIDDLE	LTE 5 MHz	16QAM	44.29	mHz
MIDDLE	LTE 5 MHz	64QAM	399.03	mHz
MIDDLE	LTE 5 MHz	256QAM	-722.70	mHz
TOP	LTE 5 MHz	QPSK	-403.11	mHz
TOP	LTE 5 MHz	16QAM	-3.06	Hz
TOP	LTE 5 MHz	64QAM	-175.77	mHz
TOP	LTE 5 MHz	256QAM	-66.93	mHz
BOTTOM	LTE 10 MHz	QPSK	338.82	mHz
BOTTOM	LTE 10 MHz	16QAM	-487.89	mHz
BOTTOM	LTE 10 MHz	64QAM	-3.68	Hz
BOTTOM	LTE 10 MHz	256QAM	-3.02	Hz
MIDDLE	LTE 10 MHz	QPSK	275.24	mHz
MIDDLE	LTE 10 MHz	16QAM	186.25	mHz
MIDDLE	LTE 10 MHz	64QAM	-263.61	mHz
MIDDLE	LTE 10 MHz	256QAM	435.66	mHz
TOP	LTE 10 MHz	QPSK	456.09	mHz
TOP	LTE 10 MHz	16QAM	-533.62	mHz
TOP	LTE 10 MHz	64QAM	-822.87	mHz
TOP	LTE 10 MHz	256QAM	-876.41	mHz
BOTTOM	LTE 15 MHz	QPSK	-829.11	mHz
BOTTOM	LTE 15 MHz	16QAM	899.86	mHz
BOTTOM	LTE 15 MHz	64QAM	-699.87	mHz
BOTTOM	LTE 15 MHz	256QAM	-140.61	mHz
MIDDLE	LTE 15 MHz	QPSK	-44.39	mHz
MIDDLE	LTE 15 MHz	16QAM	-5.09	Hz
MIDDLE	LTE 15 MHz	64QAM	2.80	Hz
MIDDLE	LTE 15 MHz	256QAM	-25.50	mHz
TOP	LTE 15 MHz	QPSK	-126.04	mHz
TOP	LTE 15 MHz	16QAM	630.87	mHz
TOP	LTE 15 MHz	64QAM	173.24	mHz
TOP	LTE 15 MHz	256QAM	-618.10	mHz
MIDDLE	LTE 20 MHz	QPSK	368.04	mHz
MIDDLE	LTE 20 MHz	16QAM	2.29	Hz
MIDDLE	LTE 20 MHz	64QAM	790.01	mHz
MIDDLE	LTE 20 MHz	256QAM	-624.52	mHz



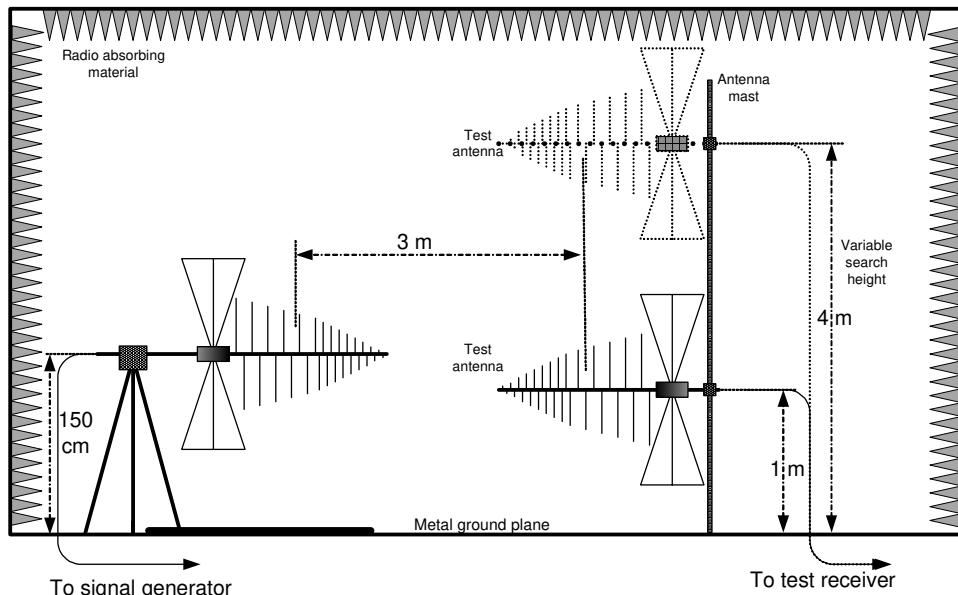
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Channel	Signal	Modulation	Frequency Error	
BOTTOM	LTE 5 MHz	QPSK	-395.71	mHz
BOTTOM	LTE 5 MHz	16QAM	-644.74	mHz
BOTTOM	LTE 5 MHz	64QAM	105.43	mHz
BOTTOM	LTE 5 MHz	256QAM	863.46	mHz
MIDDLE	LTE 5 MHz	QPSK	485.50	mHz
MIDDLE	LTE 5 MHz	16QAM	-293.81	mHz
MIDDLE	LTE 5 MHz	64QAM	-571.46	mHz
MIDDLE	LTE 5 MHz	256QAM	65.64	mHz
TOP	LTE 5 MHz	QPSK	-110.46	mHz
TOP	LTE 5 MHz	16QAM	-490.23	mHz
TOP	LTE 5 MHz	64QAM	-807.15	mHz
TOP	LTE 5 MHz	256QAM	621.65	mHz
BOTTOM	LTE 10 MHz	QPSK	5.25	Hz
BOTTOM	LTE 10 MHz	16QAM	-872.87	mHz
BOTTOM	LTE 10 MHz	64QAM	120.98	mHz
BOTTOM	LTE 10 MHz	256QAM	-0.88	Hz
MIDDLE	LTE 10 MHz	QPSK	1.90	Hz
MIDDLE	LTE 10 MHz	16QAM	2.85	Hz
MIDDLE	LTE 10 MHz	64QAM	-263.30	mHz
MIDDLE	LTE 10 MHz	256QAM	644.57	mHz
TOP	LTE 10 MHz	QPSK	289.92	mHz
TOP	LTE 10 MHz	16QAM	625.07	mHz
TOP	LTE 10 MHz	64QAM	509.07	mHz
TOP	LTE 10 MHz	256QAM	1.68	Hz
BOTTOM	LTE 15 MHz	QPSK	-5.70	Hz
BOTTOM	LTE 15 MHz	16QAM	-181.78	mHz
BOTTOM	LTE 15 MHz	64QAM	400.83	mHz
BOTTOM	LTE 15 MHz	256QAM	-512.23	mHz
MIDDLE	LTE 15 MHz	QPSK	-281.13	mHz
MIDDLE	LTE 15 MHz	16QAM	-884.73	mHz
MIDDLE	LTE 15 MHz	64QAM	-457.75	mHz
MIDDLE	LTE 15 MHz	256QAM	-184.00	mHz
TOP	LTE 15 MHz	QPSK	189.66	mHz
TOP	LTE 15 MHz	16QAM	475.96	mHz
TOP	LTE 15 MHz	64QAM	869.62	mHz
TOP	LTE 15 MHz	256QAM	-4.52	Hz
MIDDLE	LTE 20 MHz	QPSK	542.41	mHz
MIDDLE	LTE 20 MHz	16QAM	111.80	mHz
MIDDLE	LTE 20 MHz	64QAM	267.91	mHz
MIDDLE	LTE 20 MHz	256QAM	840.44	mHz

Appendix B: Block diagrams of test set-ups

Radiated emissions set-up



Substitution method set-up



Appendix C: EUT Photos

Photo Set up



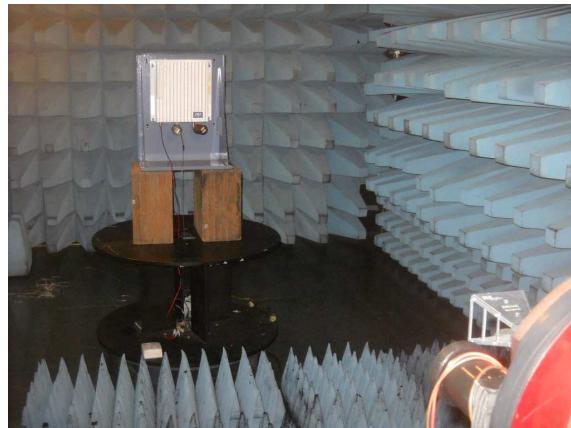
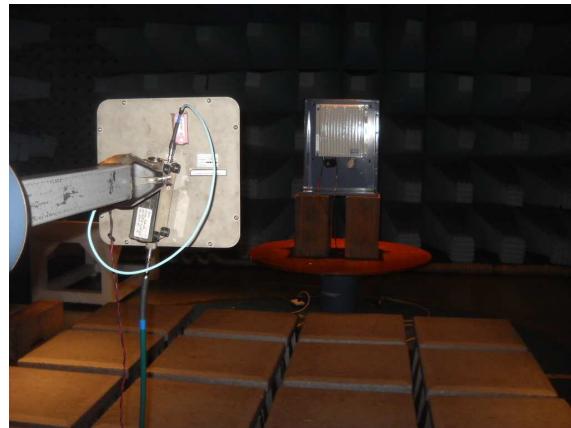


Photo EUT





END OF REPORT