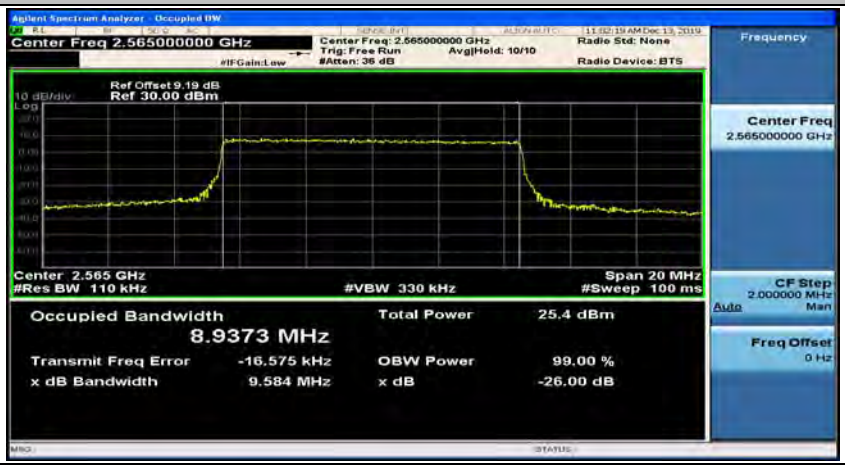
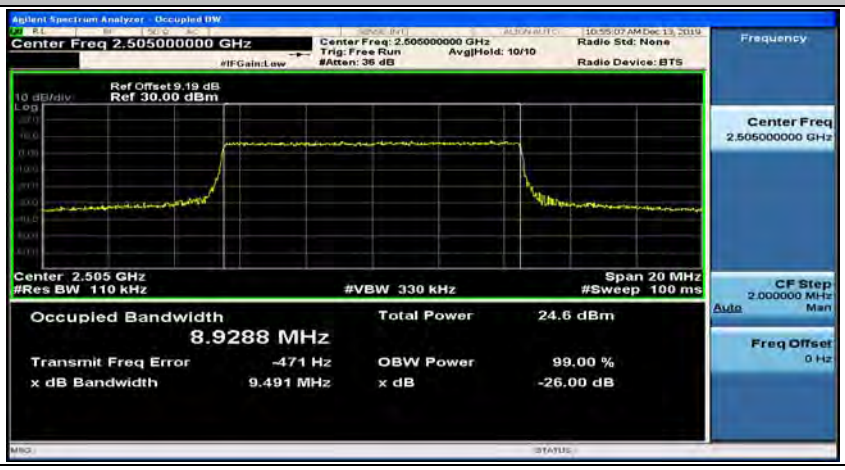
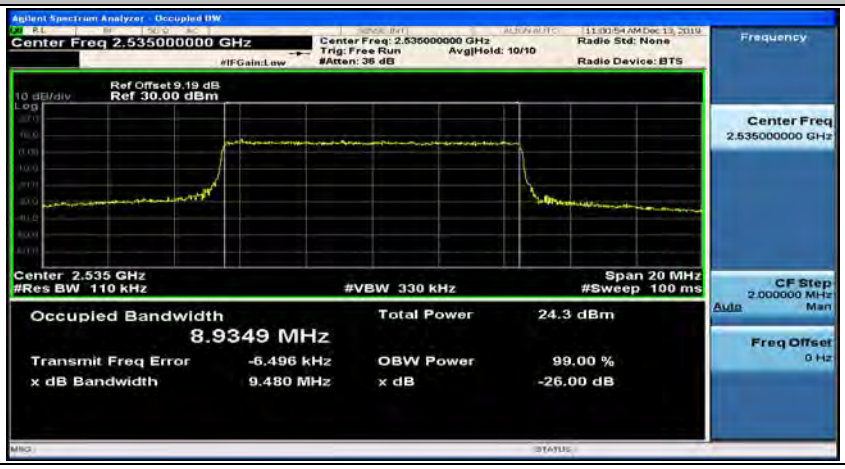
Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0

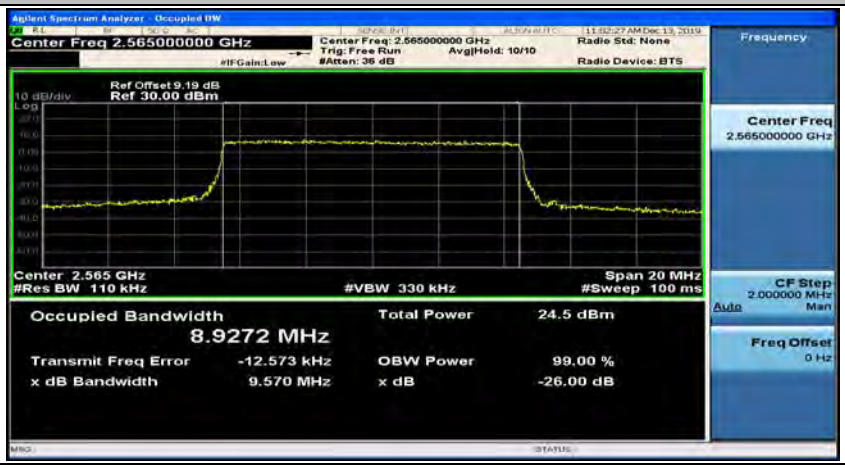


Channel Bandwidth: 10 MHz_LCH_16QAM_50RB#0

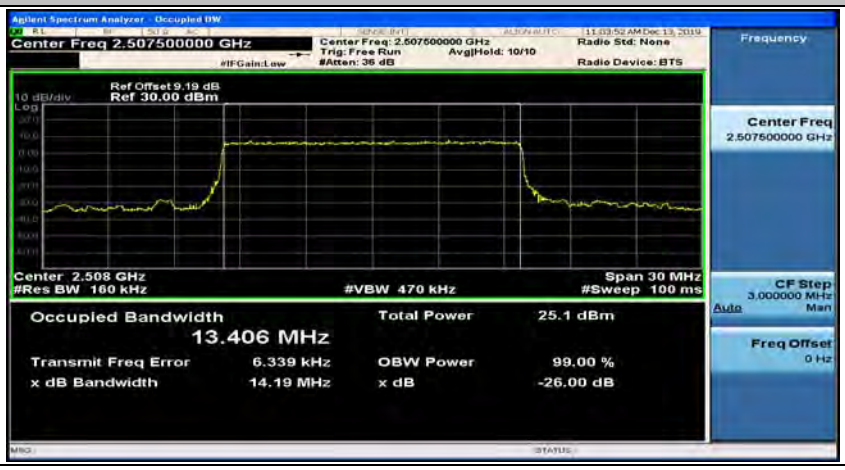


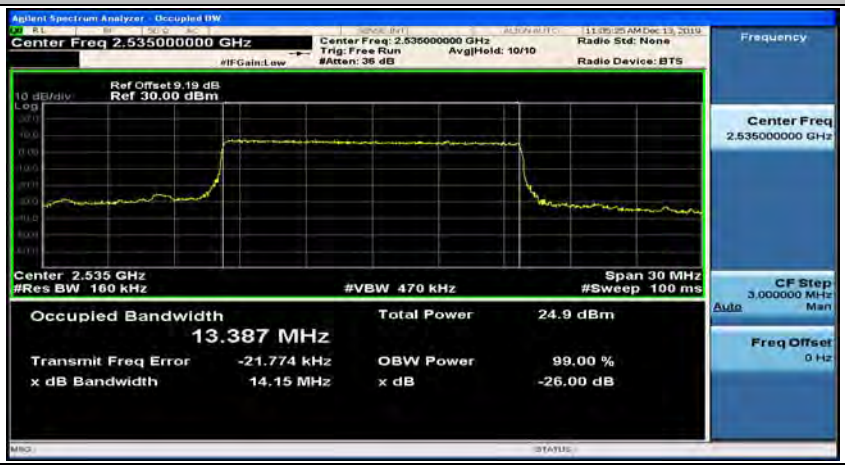
Channel Bandwidth: 10 MHz_MCH_16QAM_50RB#0



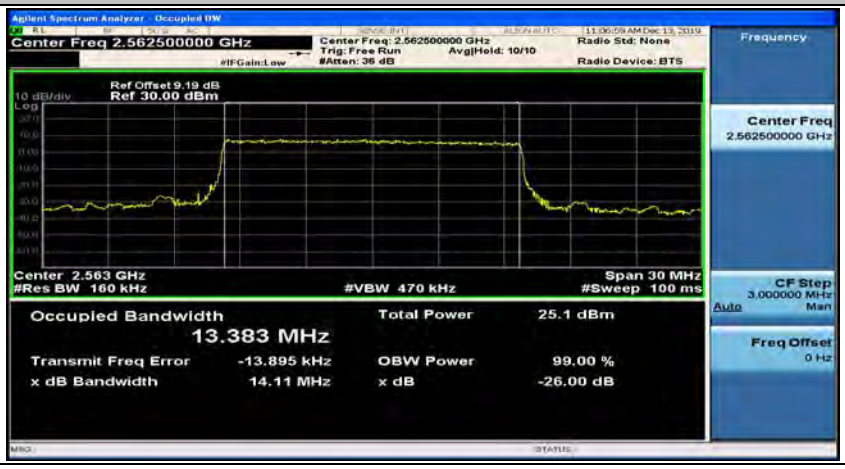
Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0


Channel Bandwidth: 15 MHz

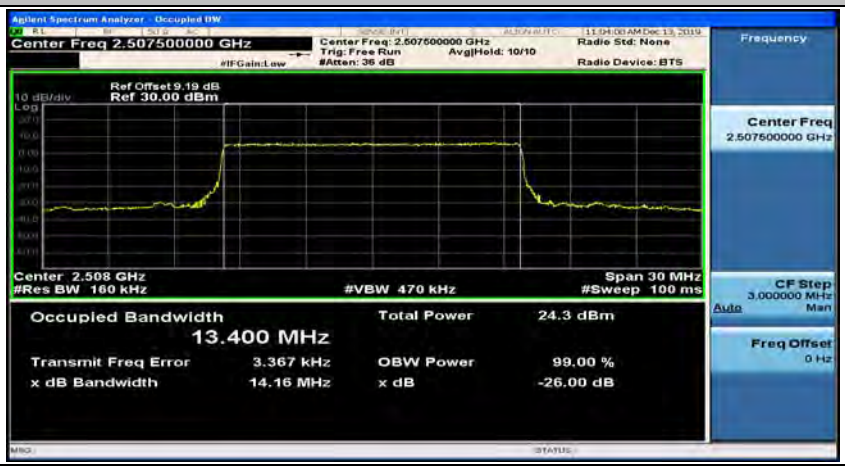
(Channel Bandwidth:15 MHz)_LCH_QPSK_75RB#0


(Channel Bandwidth:15 MHz)_MCH_QPSK_75RB#0


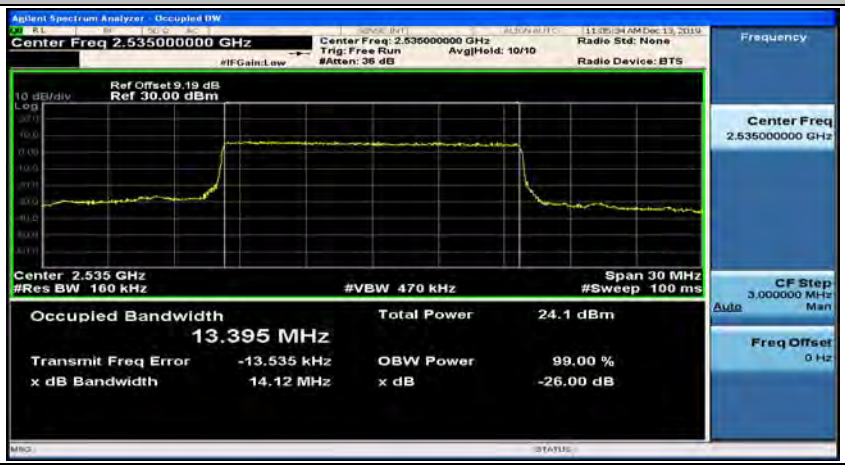
(Channel Bandwidth:15 MHz)_HCH_QPSK_75RB#0



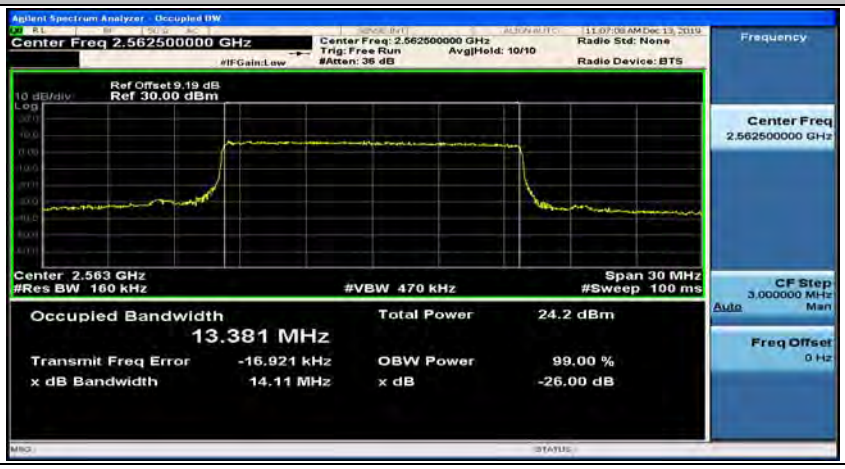
(Channel Bandwidth:15 MHz)_LCH_16QAM_75RB#0



(Channel Bandwidth:15 MHz)_MCH_16QAM_75RB#0

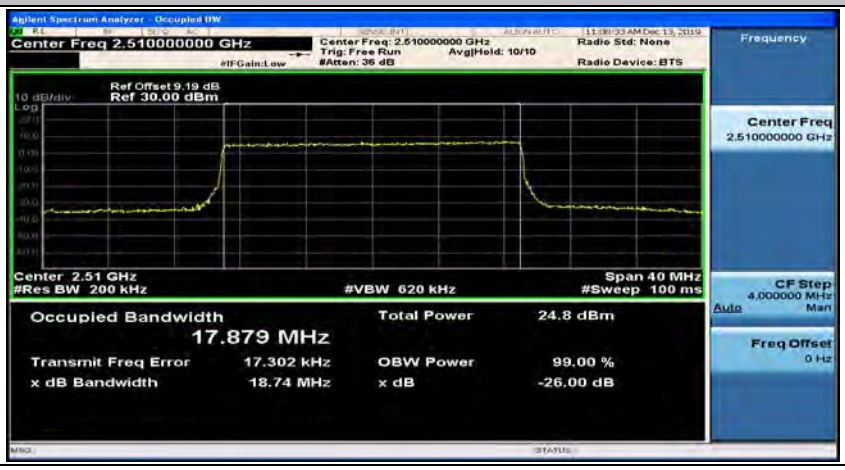


(Channel Bandwidth:15 MHz)_HCH_16QAM_75RB#0

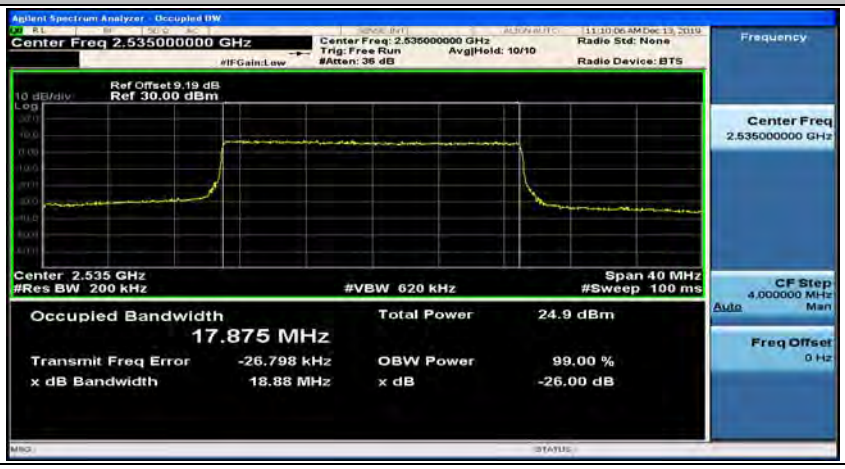


Channel Bandwidth: 20 MHz

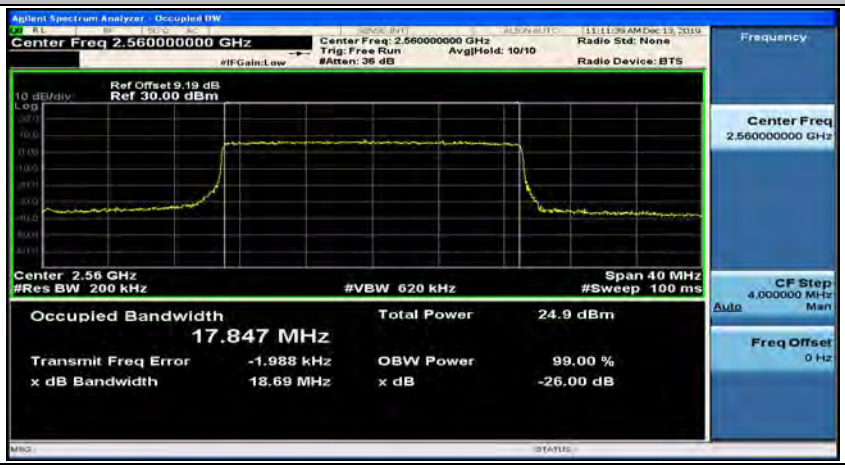
(Channel Bandwidth:20 MHz)_LCH_QPSK_100RB#0



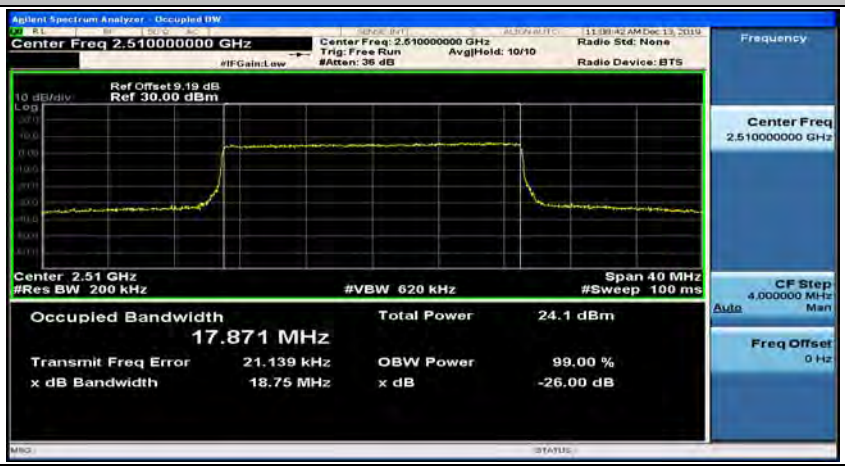
(Channel Bandwidth:20 MHz)_MCH_QPSK_100RB#0



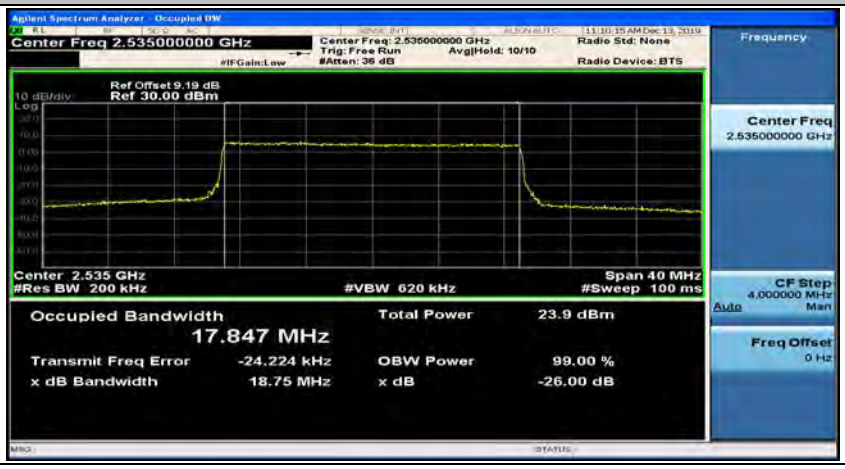
(Channel Bandwidth:20 MHz)_HCH_QPSK_100RB#0

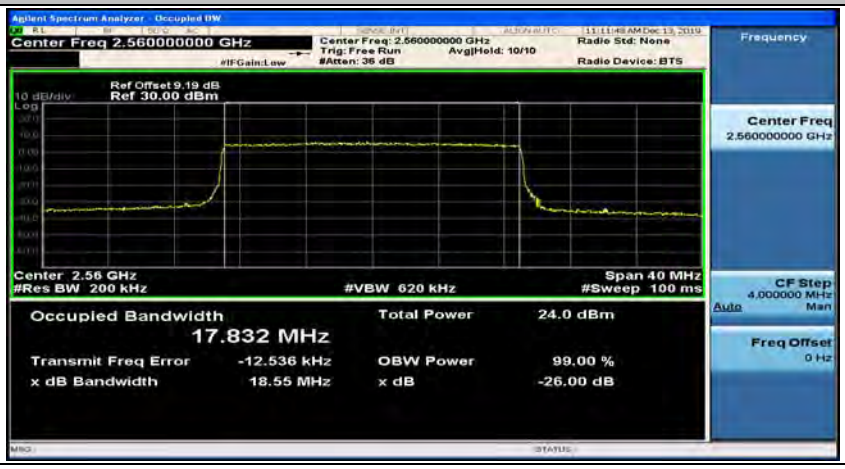


(Channel Bandwidth:20 MHz)_LCH_16QAM_100RB#0



(Channel Bandwidth:20 MHz)_MCH_16QAM_100RB#0



(Channel Bandwidth:20 MHz)_HCH_16QAM_100RB#0


Appendix D: Band Edge

Bandwidth	CH	RB Size	RB Offset	Modulation	Value	Result
5	LCH	1	0	QPSK	2495.972MHz@-44.848dBm; 2500.000MHz@-17.564dBm	Pass
5	LCH	1	12	QPSK	2495.934MHz@-49.922dBm; 2500.000MHz@-32.733dBm	Pass
5	LCH	1	24	QPSK	2495.915MHz@-47.301dBm; 2499.962MHz@-35.403dBm	Pass
5	LCH	1	0	16QAM	2495.934MHz@-46.575dBm; 2500.000MHz@-20.886dBm	Pass
5	LCH	1	12	16QAM	2495.554MHz@-50.969dBm; 2500.000MHz@-35.806dBm	Pass
5	LCH	1	24	16QAM	2495.953MHz@-47.099dBm; 2500.000MHz@-36.181dBm	Pass
5	LCH	12	0	QPSK	2495.991MHz@-44.300dBm; 2500.000MHz@-22.028dBm	Pass
5	LCH	12	6	QPSK	2495.630MHz@-43.932dBm; 2500.000MHz@-27.307dBm	Pass
5	LCH	12	13	QPSK	2495.820MHz@-44.265dBm; 2500.000MHz@-30.163dBm	Pass
5	LCH	12	0	16QAM	2495.421MHz@-45.164dBm; 2500.000MHz@-21.021dBm	Pass
5	LCH	12	6	16QAM	2495.934MHz@-45.957dBm; 2500.000MHz@-29.508dBm	Pass
5	LCH	12	13	16QAM	2495.630MHz@-46.991dBm; 2500.000MHz@-30.702dBm	Pass
5	LCH	25	0	QPSK	2495.896MHz@-32.975dBm; 2500.000MHz@-21.808dBm	Pass
5	LCH	25	0	16QAM	2495.858MHz@-35.567dBm; 2499.981MHz@-20.422dBm	Pass
5	HCH	1	0	QPSK	2575.664MHz@-52.334dBm; 2570.012MHz@-37.567dBm	Pass
5	HCH	1	12	QPSK	2575.304MHz@-53.602dBm; 2570.000MHz@-35.266dBm	Pass
5	HCH	1	24	QPSK	2575.028MHz@-51.466dBm; 2570.000MHz@-21.886dBm	Pass
5	HCH	1	0	16QAM	2575.472MHz@-52.576dBm; 2570.024MHz@-37.023dBm	Pass
5	HCH	1	12	QPSK	2575.328MHz@-52.501dBm; 2570.000MHz@-34.294dBm	Pass
5	HCH	1	24	16QAM	2575.076MHz@-51.030dBm; 2570.012MHz@-23.765dBm	Pass

5	HCH	12	0	QPSK	2575.052MHz@-46.689dBm; 2570.012MHz@-29.330dBm	Pass
5	HCH	12	6	QPSK	2575.244MHz@-46.731dBm; 2570.012MHz@-28.269dBm	Pass
5	HCH	12	13	QPSK	2575.028MHz@-44.640dBm; 2570.000MHz@-18.501dBm	Pass
5	HCH	12	0	16QAM	2575.220MHz@-47.005dBm; 2570.012MHz@-28.981dBm	Pass
5	HCH	12	6	16QAM	2575.136MHz@-47.233dBm; 2570.060MHz@-29.111dBm	Pass
5	HCH	12	13	16QAM	2575.052MHz@-46.221dBm; 2570.012MHz@-22.025dBm	Pass
5	HCH	25	0	QPSK	2575.076MHz@-38.500dBm; 2570.012MHz@-20.756dBm	Pass
5	HCH	25	0	16QAM	2575.268MHz@-40.239dBm; 2570.012MHz@-22.271dBm	Pass
10	LCH	1	0	QPSK	2495.953MHz@-54.609dBm; 2500.000MHz@-29.899dBm	Pass
10	LCH	1	24	QPSK	2495.630MHz@-53.408dBm; 2499.962MHz@-40.942dBm	Pass
10	LCH	1	49	QPSK	2491.678MHz@-49.255dBm; 2500.000MHz@-39.978dBm	Pass
10	LCH	1	0	16QAM	2495.801MHz@-47.886dBm; 2499.943MHz@-23.848dBm	Pass
10	LCH	1	24	16QAM	2495.478MHz@-52.095dBm; 2499.981MHz@-39.434dBm	Pass
10	LCH	1	49	16QAM	2491.716MHz@-44.475dBm; 2499.981MHz@-37.903dBm	Pass
10	LCH	25	0	QPSK	2495.991MHz@-34.208dBm; 2499.981MHz@-22.660dBm	Pass
10	LCH	25	12	QPSK	2495.402MHz@-40.425dBm; 2499.943MHz@-26.779dBm	Pass
10	LCH	25	25	QPSK	2495.915MHz@-41.698dBm; 2500.000MHz@-30.066dBm	Pass
10	LCH	25	0	16QAM	2495.915MHz@-36.051dBm; 2499.981MHz@-23.921dBm	Pass
10	LCH	25	12	16QAM	2495.782MHz@-42.728dBm; 2500.000MHz@-30.357dBm	Pass
10	LCH	25	25	16QAM	2495.991MHz@-44.001dBm; 2500.000MHz@-34.109dBm	Pass
10	LCH	50	0	QPSK	2495.402MHz@-32.337dBm; 2499.981MHz@-22.966dBm	Pass
10	LCH	50	0	16QAM	2495.440MHz@-32.201dBm; 2499.962MHz@-22.794dBm	Pass

10	HCH	1	0	QPSK	2575.280MHz@-53.310dBm; 2570.000MHz@-40.975dBm	Pass
10	HCH	1	24	QPSK	2575.244MHz@-55.936dBm; 2570.048MHz@-42.833dBm	Pass
10	HCH	1	49	QPSK	2575.064MHz@-51.790dBm; 2570.024MHz@-26.660dBm	Pass
10	HCH	1	0	16QAM	2575.352MHz@-53.795dBm; 2570.000MHz@-41.525dBm	Pass
10	HCH	1	24	16QAM	2575.064MHz@-55.352dBm; 2570.084MHz@-43.212dBm	Pass
10	HCH	1	49	16QAM	2575.076MHz@-50.979dBm; 2570.036MHz@-25.318dBm	Pass
10	HCH	25	0	QPSK	2575.160MHz@-46.389dBm; 2570.000MHz@-34.271dBm	Pass
10	HCH	25	12	QPSK	2575.232MHz@-45.195dBm; 2570.192MHz@-30.141dBm	Pass
10	HCH	25	25	QPSK	2575.124MHz@-38.143dBm; 2570.060MHz@-24.221dBm	Pass
10	HCH	25	0	16QAM	2575.160MHz@-48.084dBm; 2570.036MHz@-35.755dBm	Pass
10	HCH	25	12	16QAM	2575.316MHz@-46.370dBm; 2570.048MHz@-31.360dBm	Pass
10	HCH	25	25	16QAM	2575.160MHz@-40.215dBm; 2570.000MHz@-24.655dBm	Pass
10	HCH	50	0	QPSK	2575.329MHz@-34.185dBm; 2570.058MHz@-24.525dBm	Pass
10	HCH	50	0	16QAM	2575.244MHz@-34.115dBm; 2570.038MHz@-23.815dBm	Pass
15	LCH	1	0	QPSK	2494.471MHz@-44.178dBm; 2499.981MHz@-26.811dBm	Pass
15	LCH	1	37	QPSK	2495.744MHz@-52.829dBm; 2499.962MHz@-43.998dBm	Pass
15	LCH	1	74	QPSK	2494.243MHz@-48.621dBm; 2499.943MHz@-44.122dBm	Pass
15	LCH	1	0	16QAM	2495.497MHz@-41.999dBm; 2500.000MHz@-25.925dBm	Pass
15	LCH	1	37	16QAM	2495.706MHz@-52.819dBm; 2499.981MHz@-44.213dBm	Pass
15	LCH	1	74	16QAM	2495.687MHz@-48.274dBm; 2499.848MHz@-41.956dBm	Pass
15	LCH	37	0	QPSK	2495.440MHz@-32.921dBm; 2500.000MHz@-25.397dBm	Pass
15	LCH	37	18	QPSK	2495.972MHz@-40.190dBm; 2500.000MHz@-31.979dBm	Pass

15	LCH	37	38	QPSK	2495.934MHz@-42.213dBm; 2500.000MHz@-33.768dBm	Pass
15	LCH	37	0	16QAM	2495.763MHz@-33.175dBm; 2499.962MHz@-25.769dBm	Pass
15	LCH	37	18	16QAM	2495.953MHz@-39.941dBm; 2499.734MHz@-31.679dBm	Pass
15	LCH	37	38	16QAM	2495.991MHz@-44.136dBm; 2499.981MHz@-37.156dBm	Pass
15	LCH	75	0	QPSK	2495.953MHz@-30.626dBm; 2500.000MHz@-25.370dBm	Pass
15	LCH	75	0	16QAM	2493.464MHz@-30.850dBm; 2500.000MHz@-24.080dBm	Pass
15	HCH	1	0	QPSK	2575.796MHz@-49.646dBm; 2570.000MHz@-44.766dBm	Pass
15	HCH	1	37	QPSK	2575.112MHz@-56.235dBm; 2570.000MHz@-46.557dBm	Pass
15	HCH	1	74	QPSK	2575.544MHz@-46.143dBm; 2570.012MHz@-28.505dBm	Pass
15	HCH	1	0	16QAM	2575.724MHz@-49.030dBm; 2570.036MHz@-45.699dBm	Pass
15	HCH	1	37	16QAM	2575.112MHz@-55.672dBm; 2570.216MHz@-46.557dBm	Pass
15	HCH	1	74	16QAM	2575.568MHz@-45.915dBm; 2570.000MHz@-28.047dBm	Pass
15	HCH	37	0	QPSK	2575.581MHz@-45.968dBm; 2570.015MHz@-36.521dBm	Pass
15	HCH	37	18	QPSK	2575.468MHz@-42.821dBm; 2570.863MHz@-32.450dBm	Pass
15	HCH	37	38	QPSK	2575.126MHz@-34.302dBm; 2570.000MHz@-26.314dBm	Pass
15	HCH	37	0	16QAM	2575.481MHz@-45.264dBm; 2570.059MHz@-35.927dBm	Pass
15	HCH	37	18	16QAM	2575.198MHz@-43.492dBm; 2570.062MHz@-32.165dBm	Pass
15	HCH	37	38	16QAM	2575.269MHz@-35.193dBm; 2570.060MHz@-26.649dBm	Pass
15	HCH	75	0	QPSK	2575.305MHz@-32.232dBm; 2570.000MHz@-25.308dBm	Pass
15	HCH	75	0	16QAM	2575.390MHz@-33.837dBm; 2570.000MHz@-27.068dBm	Pass
20	LCH	1	0	QPSK	2492.932MHz@-40.907dBm; 2499.981MHz@-28.823dBm	Pass
20	LCH	1	49	QPSK	2495.820MHz@-56.229dBm; 2499.848MHz@-48.343dBm	Pass

20	LCH	1	99	QPSK	2492.267MHz@-43.633dBm; 2499.962MHz@-44.228dBm	Pass
20	LCH	1	0	16QAM	2492.894MHz@-41.014dBm; 2500.000MHz@-29.585dBm	Pass
20	LCH	1	49	16QAM	2495.915MHz@-57.097dBm; 2499.848MHz@-49.090dBm	Pass
20	LCH	1	99	16QAM	2492.267MHz@-43.101dBm; 2499.772MHz@-44.067dBm	Pass
20	LCH	50	0	QPSK	2495.516MHz@-32.579dBm; 2499.962MHz@-28.072dBm	Pass
20	LCH	50	25	QPSK	2495.896MHz@-38.010dBm; 2496.865MHz@-33.286dBm	Pass
20	LCH	50	50	QPSK	2495.934MHz@-42.956dBm; 2499.943MHz@-34.568dBm	Pass
20	LCH	50	0	16QAM	2495.915MHz@-31.517dBm; 2499.962MHz@-27.457dBm	Pass
20	LCH	50	25	16QAM	2495.915MHz@-38.471dBm; 2500.000MHz@-33.170dBm	Pass
20	LCH	50	50	16QAM	2495.915MHz@-43.561dBm; 2499.981MHz@-36.154dBm	Pass
20	LCH	100	0	QPSK	2493.958MHz@-32.140dBm; 2499.867MHz@-28.413dBm	Pass
20	LCH	100	0	16QAM	2495.592MHz@-30.851dBm; 2499.943MHz@-27.112dBm	Pass
20	HCH	1	0	QPSK	2575.556MHz@-54.760dBm; 2570.000MHz@-45.731dBm	Pass
20	HCH	1	49	QPSK	2575.580MHz@-57.565dBm; 2570.024MHz@-49.519dBm	Pass
20	HCH	1	99	QPSK	2575.148MHz@-51.167dBm; 2570.000MHz@-30.322dBm	Pass
20	HCH	1	0	16QAM	2575.640MHz@-54.295dBm; 2570.000MHz@-45.227dBm	Pass
20	HCH	1	49	16QAM	2575.724MHz@-57.735dBm; 2570.108MHz@-49.643dBm	Pass
20	HCH	1	99	16QAM	2575.424MHz@-50.265dBm; 2570.012MHz@-30.237dBm	Pass
20	HCH	50	0	QPSK	2576.098MHz@-44.991dBm; 2570.020MHz@-36.531dBm	Pass
20	HCH	50	25	QPSK	2575.082MHz@-39.492dBm; 2573.208MHz@-32.911dBm	Pass
20	HCH	50	50	QPSK	2577.848MHz@-34.332dBm; 2570.000MHz@-28.911dBm	Pass
20	HCH	50	0	16QAM	2575.093MHz@-46.109dBm; 2570.039MHz@-36.750dBm	Pass

20	HCH	50	25	16QAM	2575.157MHz@-41.222dBm; 2570.551MHz@-34.396dBm	Pass
20	HCH	50	50	16QAM	2575.024MHz@-34.736dBm; 2570.020MHz@-29.532dBm	Pass
20	HCH	100	0	QPSK	2575.084MHz@-34.444dBm; 2570.000MHz@-26.649dBm	Pass
20	HCH	100	0	16QAM	2575.936MHz@-33.943dBm; 2570.074MHz@-28.515dBm	Pass

Remark: For mobile digital station devices, the attenuation factor shall be not less than:

40 + 10 log P dB (−10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge,

43 + 10 log P dB (−13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge, and

55 + 10 log P dB (−25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB). [Section 27.53(m)(4)]

Test Graphs

Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12

(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24

(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0

(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6

(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13

(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0

(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24

(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#0

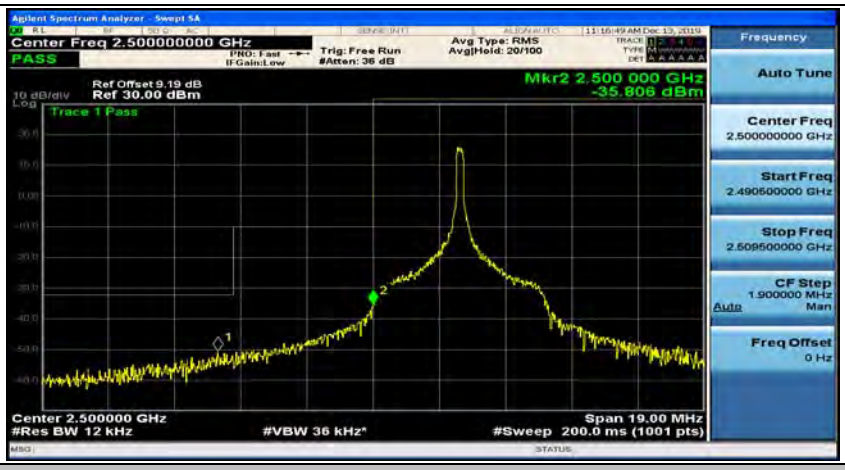
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6

(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13

(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0

(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0

(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12



(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24

(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#0

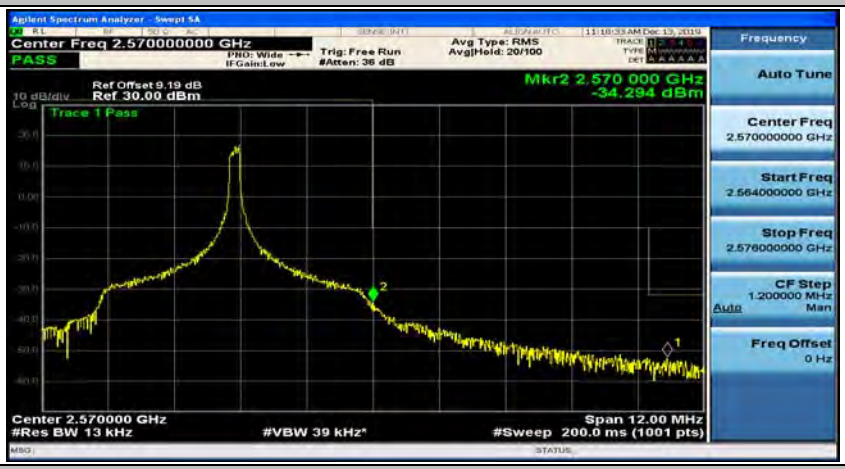
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#6

(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#13

(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0

(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0

(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12



(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24

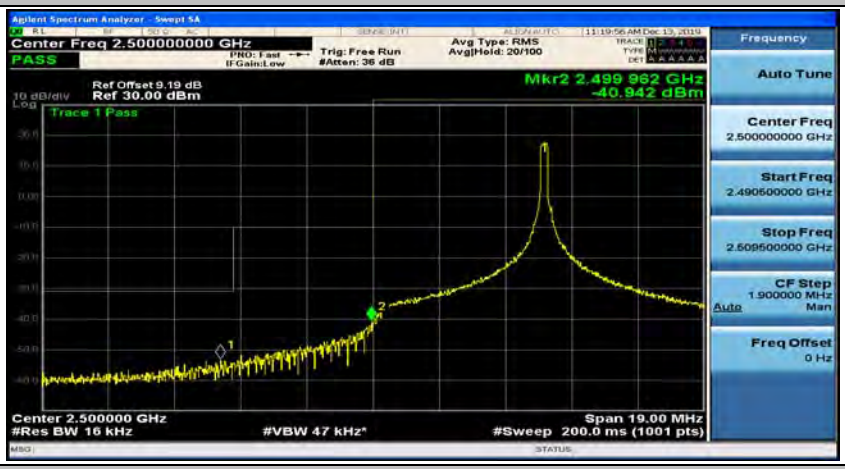
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#0

(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#6

(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#13

(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24

Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49

Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#0

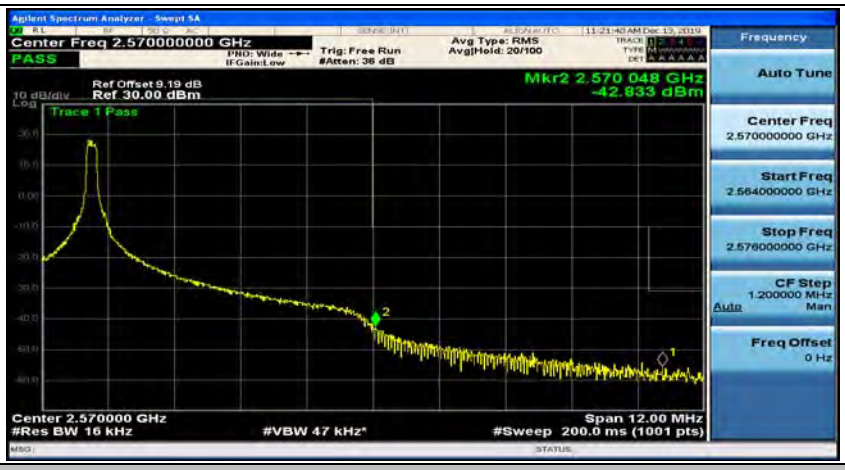
Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#12

Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#25

Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0

Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0

Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24



Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49

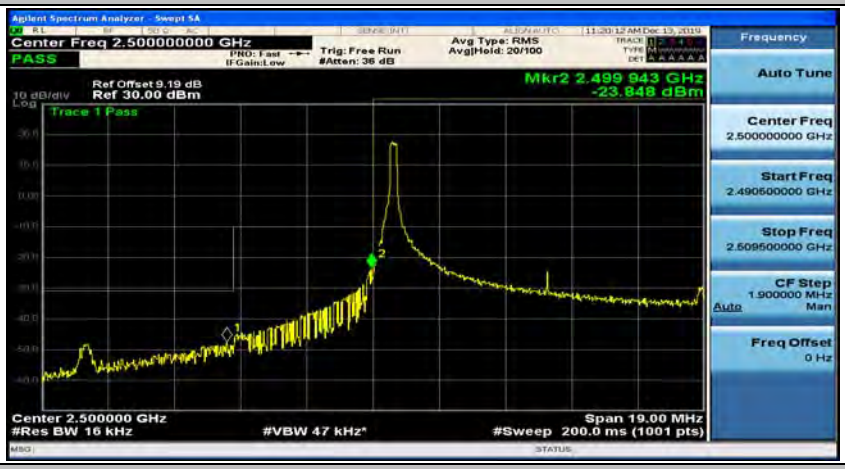
Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#0

Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#12

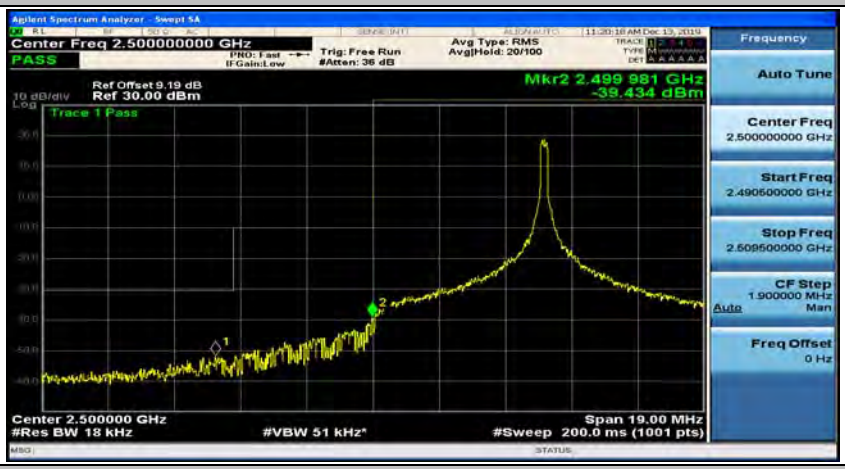
Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#25

Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0

Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24

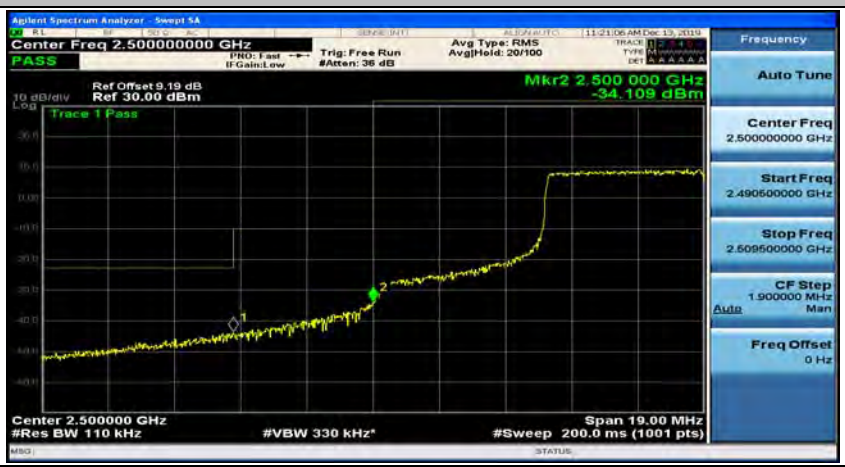


Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#49

Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#0

Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#12

Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#25



Channel Bandwidth: 10 MHz_LCH_16QAM_50RB#0

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49

Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#0

Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#12

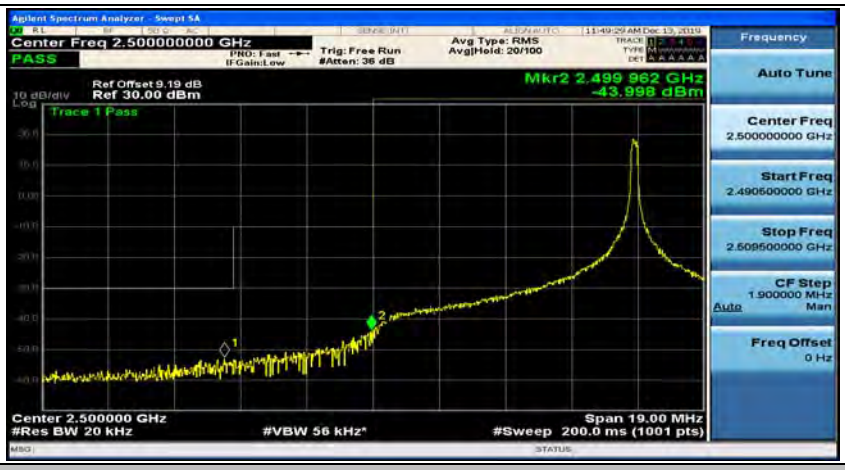
Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#25

Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0

Channel Bandwidth: 15 MHz

(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#0

(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#37



(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#74

(Channel Bandwidth:15 MHz)_LCH_QPSK_37RB#0

(Channel Bandwidth:15 MHz)_LCH_QPSK_37RB#18

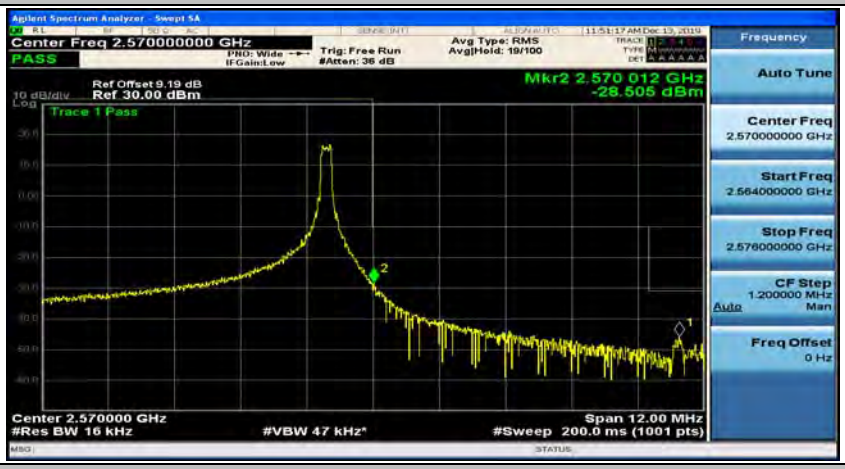
(Channel Bandwidth:15 MHz)_LCH_QPSK_37RB#38

(Channel Bandwidth:15 MHz)_LCH_QPSK_75RB#0

(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#0

(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#37

(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#74



(Channel Bandwidth:15 MHz)_HCH_QPSK_37RB#0

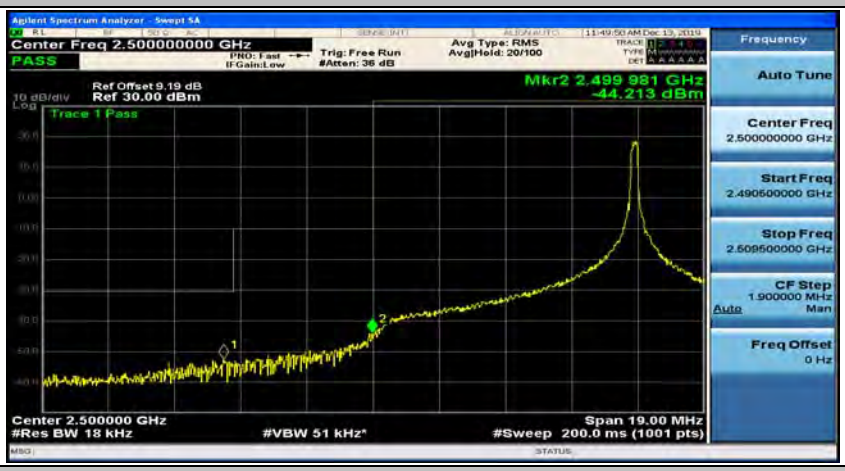
(Channel Bandwidth:15 MHz)_HCH_QPSK_37RB#18

(Channel Bandwidth:15 MHz)_HCH_QPSK_37RB#38

(Channel Bandwidth:15 MHz)_HCH_QPSK_75RB#0

(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0

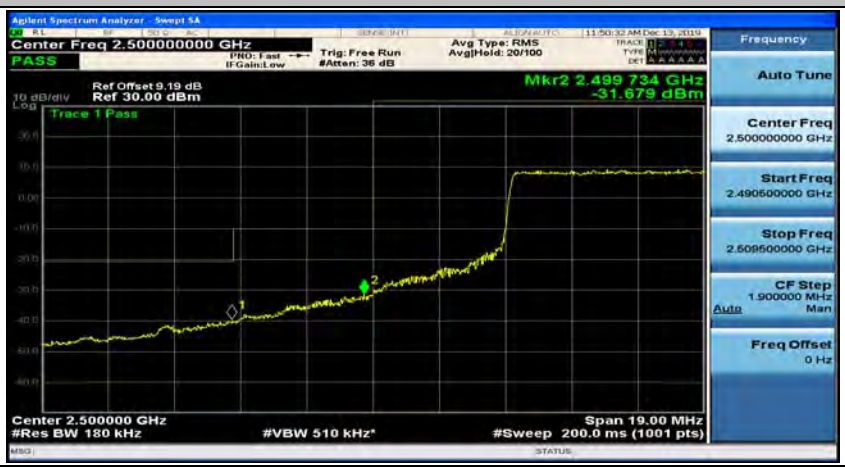
(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#37



(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#74

(Channel Bandwidth:15 MHz)_LCH_16QAM_37RB#0

(Channel Bandwidth:15 MHz)_LCH_16QAM_37RB#18

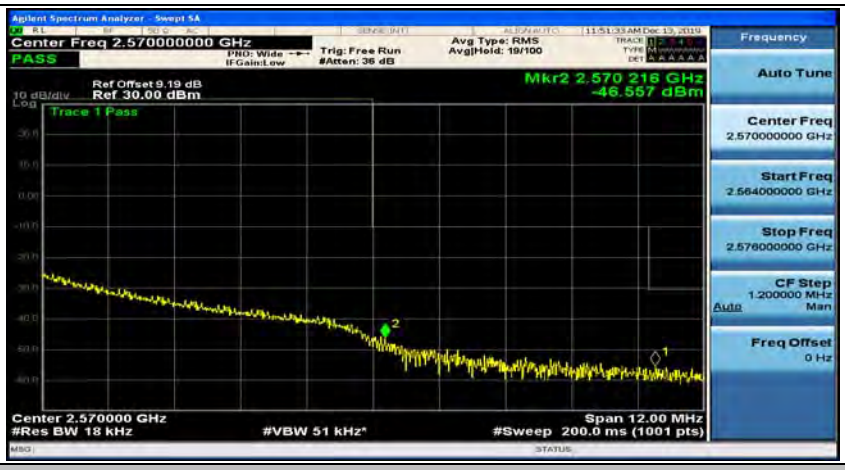


(Channel Bandwidth:15 MHz)_LCH_16QAM_37RB#38

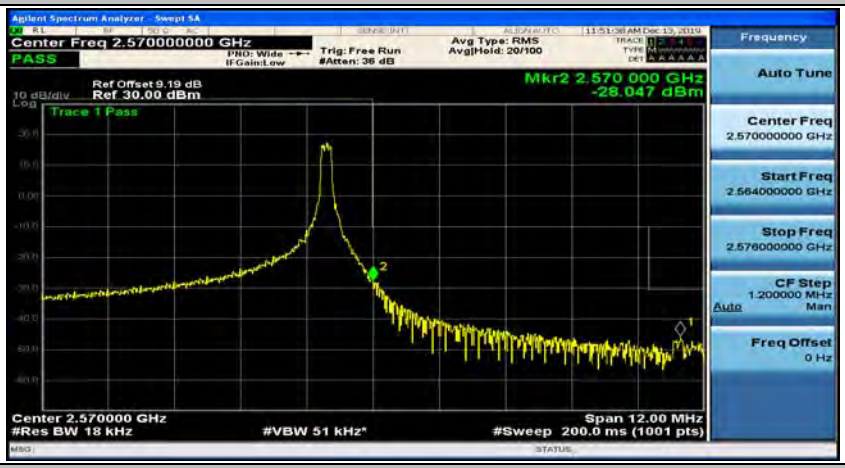
(Channel Bandwidth:15 MHz)_LCH_16QAM_75RB#0

(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#0

(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#37



(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#74



(Channel Bandwidth:15 MHz)_HCH_16QAM_37RB#0

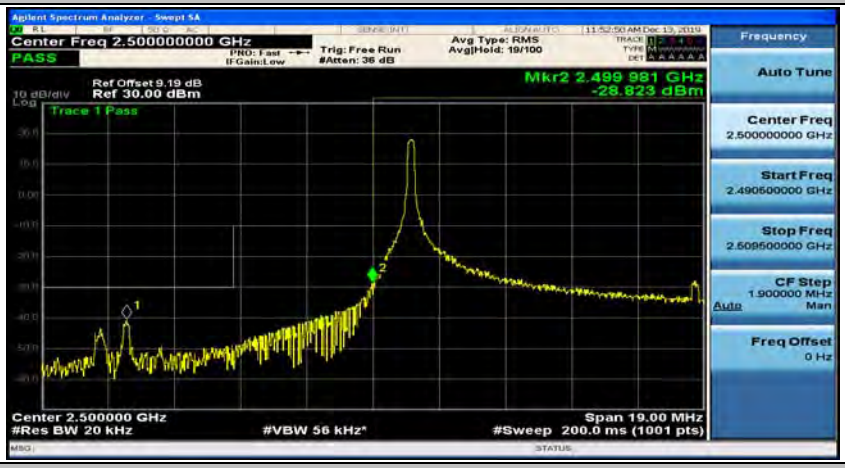
(Channel Bandwidth:15 MHz)_HCH_16QAM_37RB#18

(Channel Bandwidth:15 MHz)_HCH_16QAM_37RB#38

(Channel Bandwidth:15 MHz)_HCH_16QAM_75RB#0

Channel Bandwidth: 20 MHz

(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#49

(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#99

(Channel Bandwidth:20 MHz)_LCH_QPSK_50RB#0

(Channel Bandwidth:20 MHz)_LCH_QPSK_50RB#25

(Channel Bandwidth:20 MHz)_LCH_QPSK_50RB#50

(Channel Bandwidth:20 MHz)_LCH_QPSK_100RB#0

(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0

(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#49

(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#99

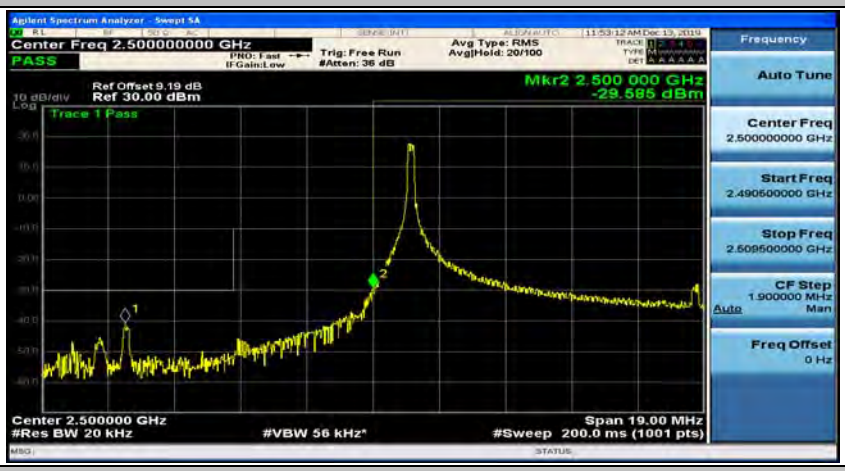
(Channel Bandwidth:20 MHz)_HCH_QPSK_50RB#0

(Channel Bandwidth:20 MHz)_HCH_QPSK_50RB#25

(Channel Bandwidth:20 MHz)_HCH_QPSK_50RB#50

(Channel Bandwidth:20 MHz)_HCH_QPSK_100RB#0

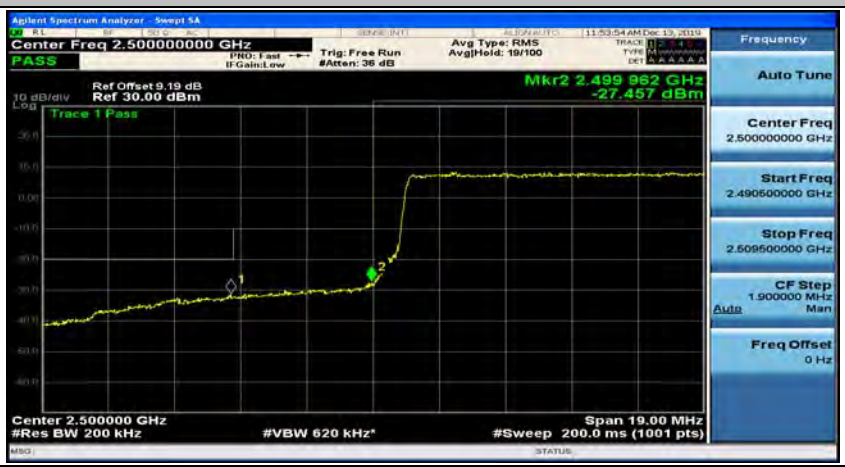
(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0



(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#49

(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#99

(Channel Bandwidth:20 MHz)_LCH_16QAM_50RB#0



(Channel Bandwidth:20 MHz)_LCH_16QAM_50RB#25

(Channel Bandwidth:20 MHz)_LCH_16QAM_50RB#50

(Channel Bandwidth:20 MHz)_LCH_16QAM_100RB#0

(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0

(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#49

(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#99

(Channel Bandwidth:20 MHz)_HCH_16QAM_50RB#0

(Channel Bandwidth:20 MHz)_HCH_16QAM_50RB#25

(Channel Bandwidth:20 MHz)_HCH_16QAM_50RB#50

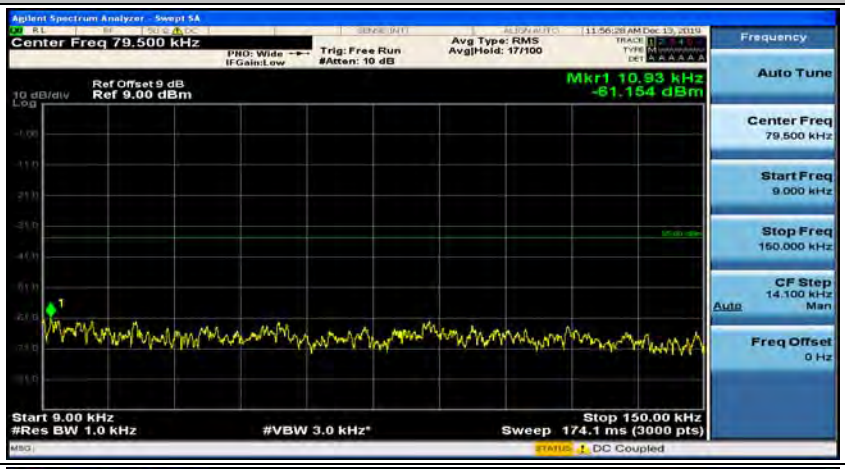
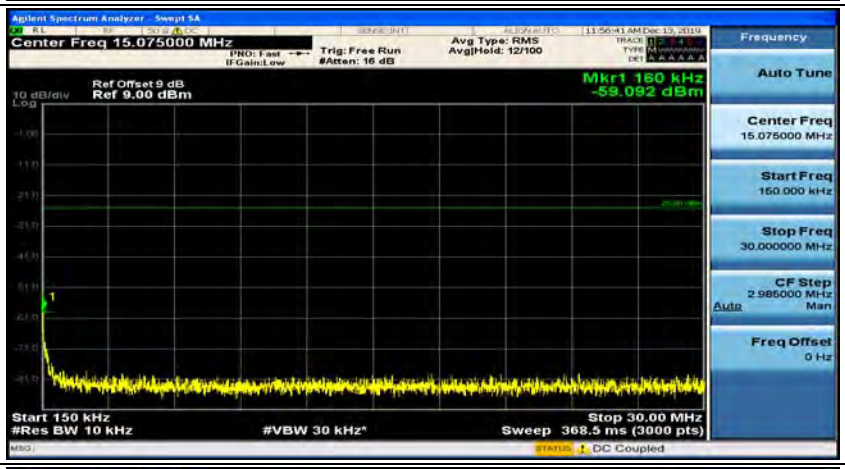
(Channel Bandwidth:20 MHz)_HCH_16QAM_100RB#0

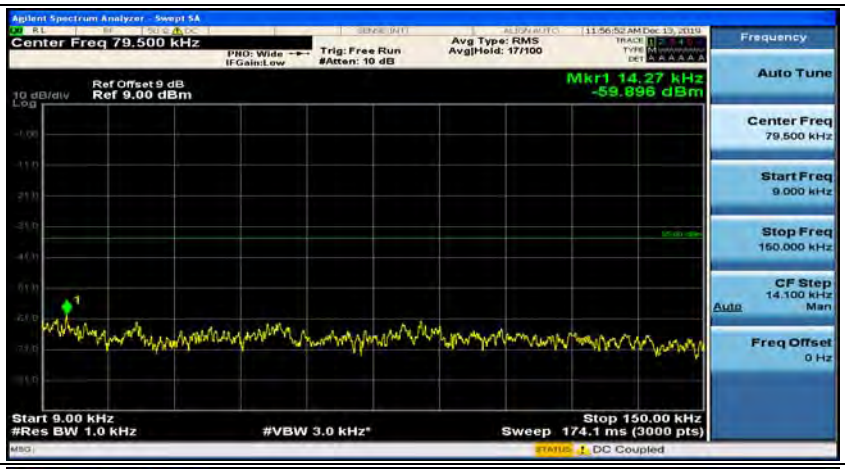
Agilent Spectrum Analyzer - Swept SA
Center Freq 2.570000000 GHz
PASS
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 36 dB
Avg Type: RMS
Avg|Hold: 20/100
11:56:09 AM Dec 13, 2019
Ref Offset 9.19 dB
10 dB/div Ref 30.00 dBm
Log
Trace 1 Pass
Mkr2 2.570 074 2 GHz
-28.515 dBm
Center 2.57000 GHz
#Res BW 390 kHz
#VBW 1.2 MHz*
Span 37.10 MHz
#Sweep 200.0 ms (1001 pts)
Frequency
Auto Tune
Center Freq
2.570000000 GHz
Start Freq
2.551450000 GHz
Stop Freq
2.588550000 GHz
CF Step
3.710000 MHz
Auto
Man
Freq Offset
0 Hz

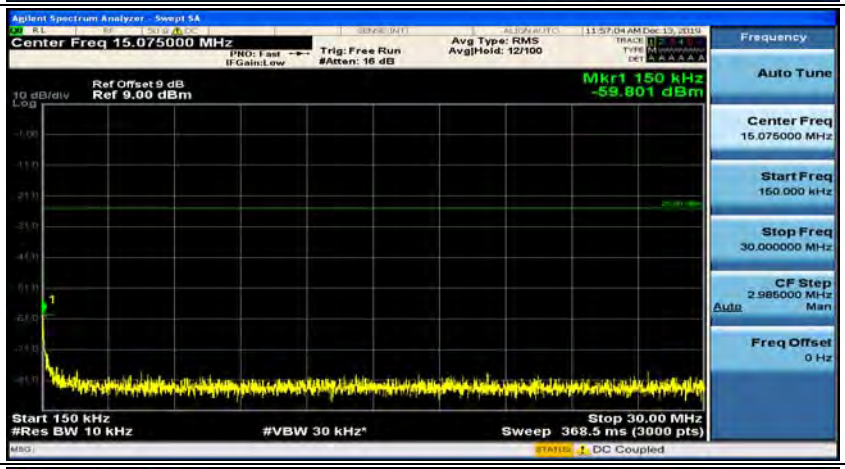
Appendix E: Conducted Spurious Emission

Test Graphs

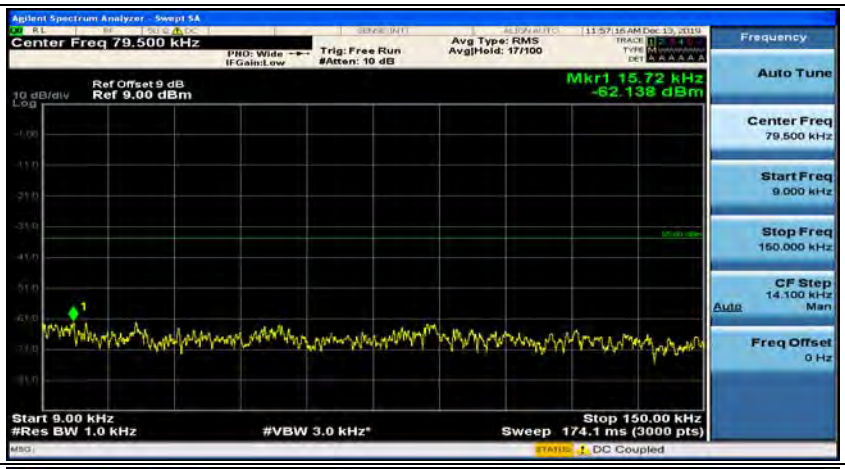
Channel Bandwidth: 5 MHz

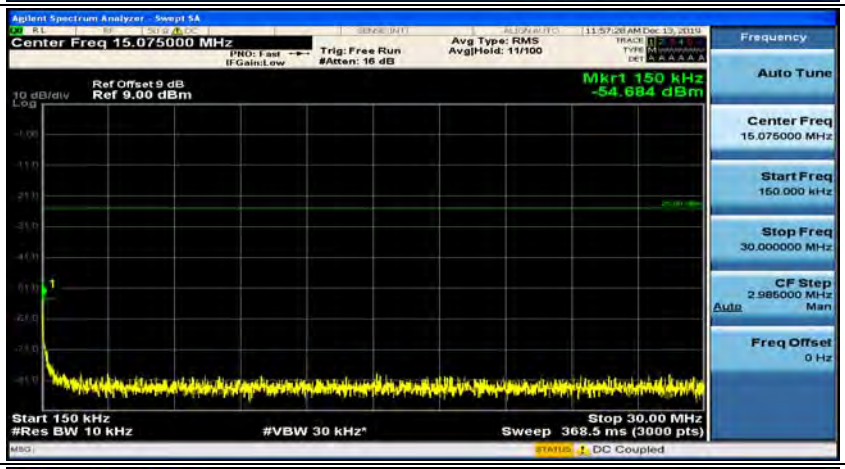
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0


(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12





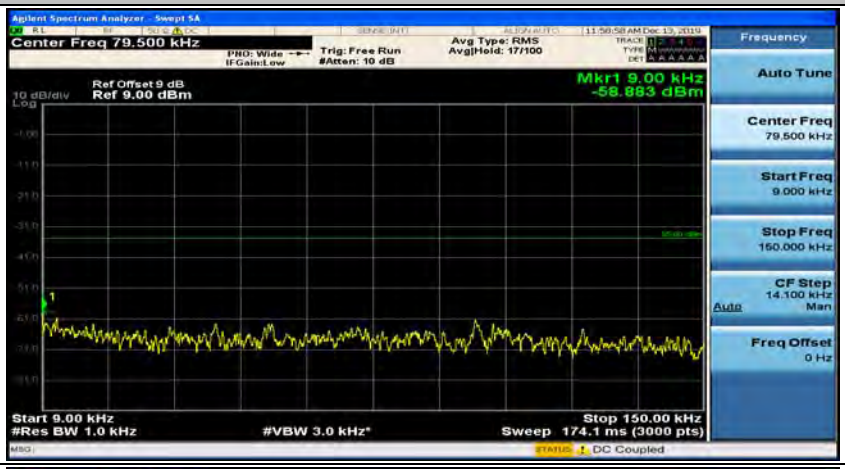
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24

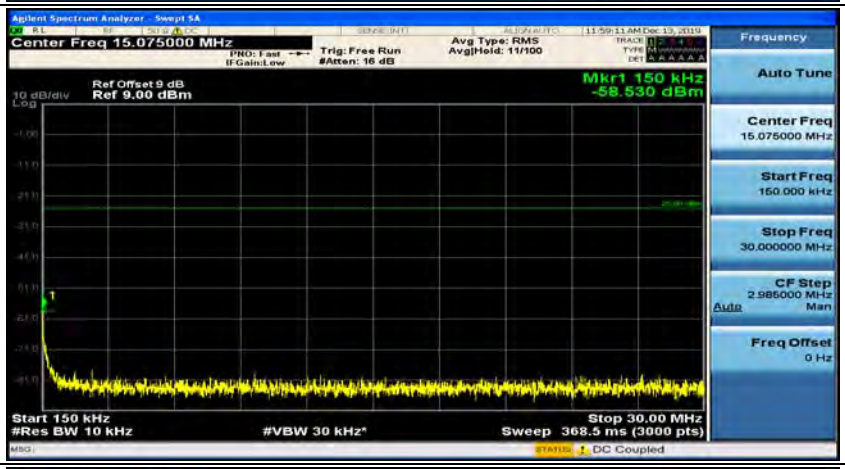

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 15.72 kHz
-62.138 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 11/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-54.684 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

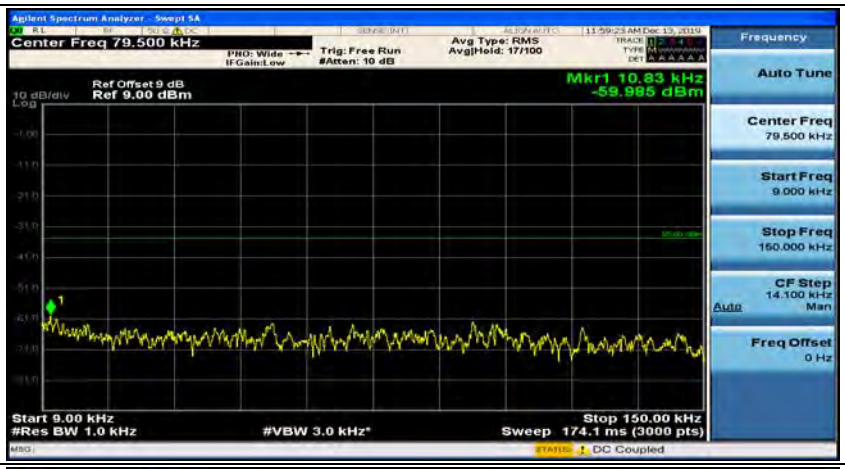
Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: RMS
Avg|Hold: 11/100
Ref Offset 8.95 dB
10 dB/div
Ref 18.95 dBm
Mkr2 25.117 GHz
-45.021 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)
Input Overload;ADC over range
Frequency
Auto Tune
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz

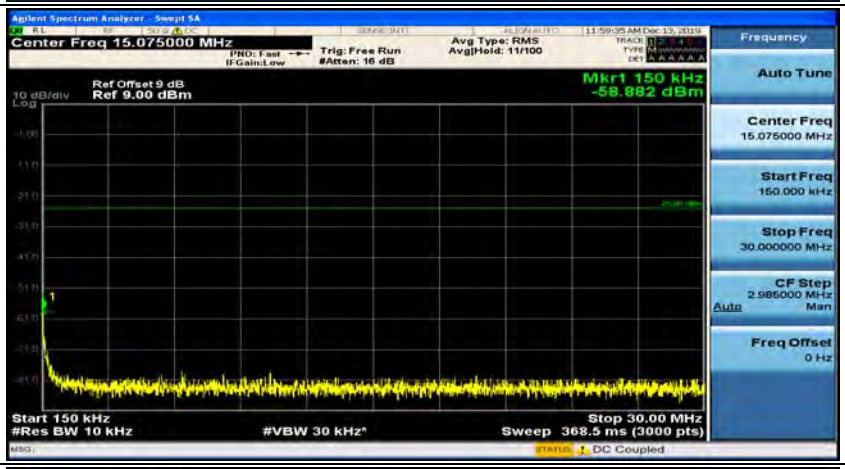
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0



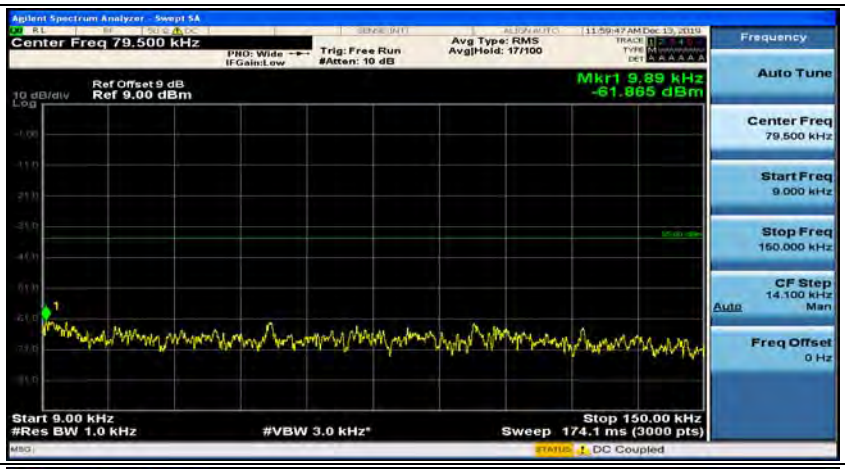


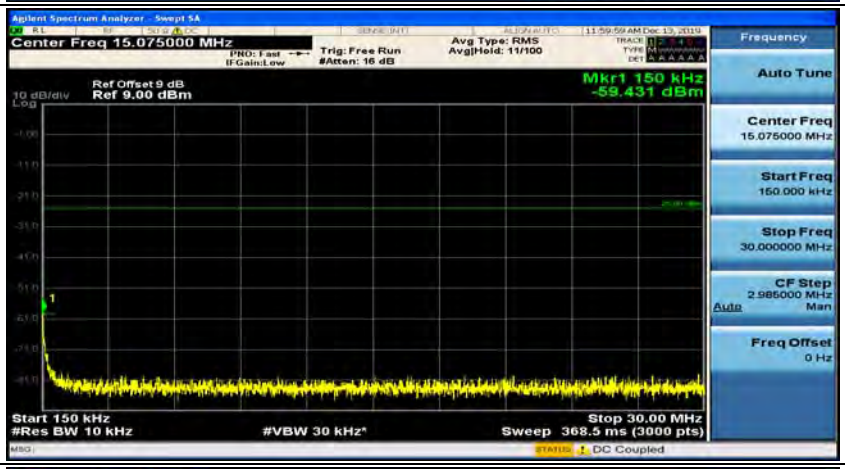
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12





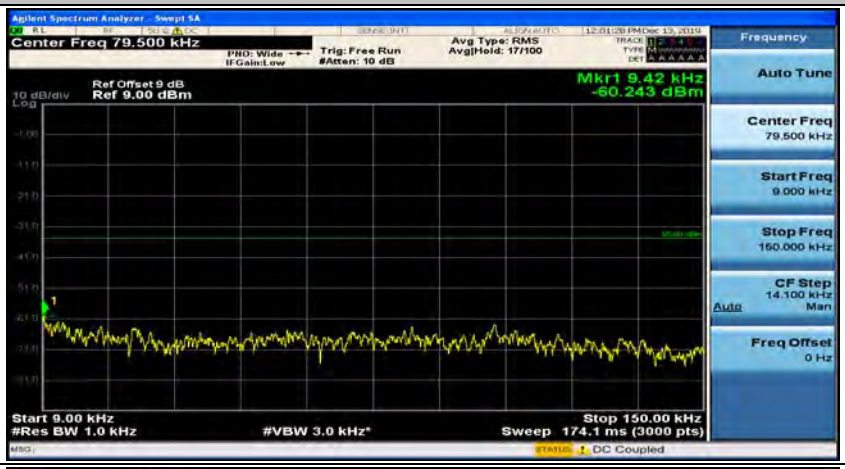
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24

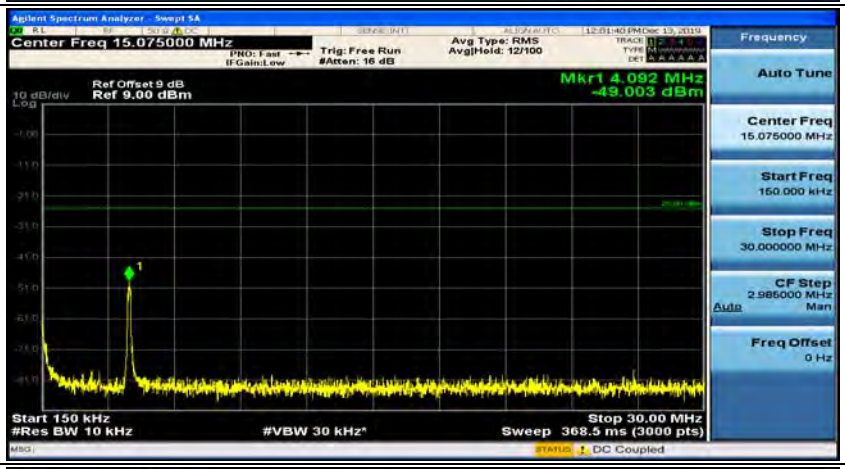

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 9.89 kHz
-61.865 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 11/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-59.431 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

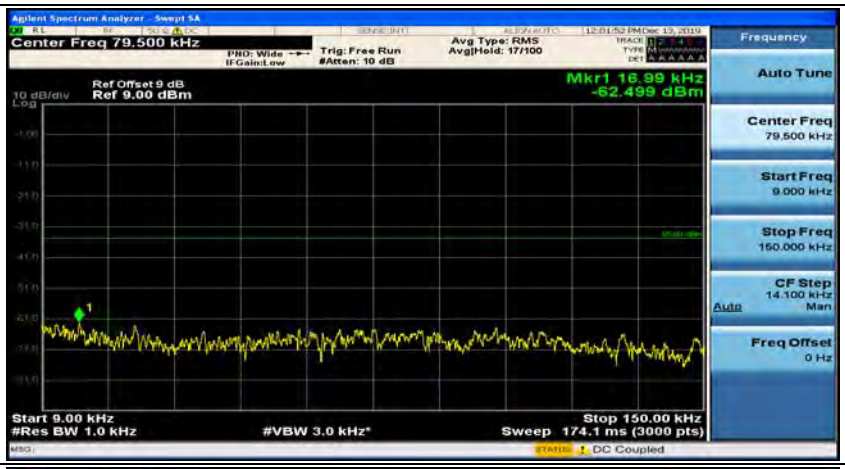
Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: RMS
Avg|Hold: 11/100
Ref Offset 8.95 dB
10 dB/div
Ref 18.95 dBm
Mkr2 25.593 GHz
-45.331 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)
Input Overload;ADC over range
Frequency
Auto Tune
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz

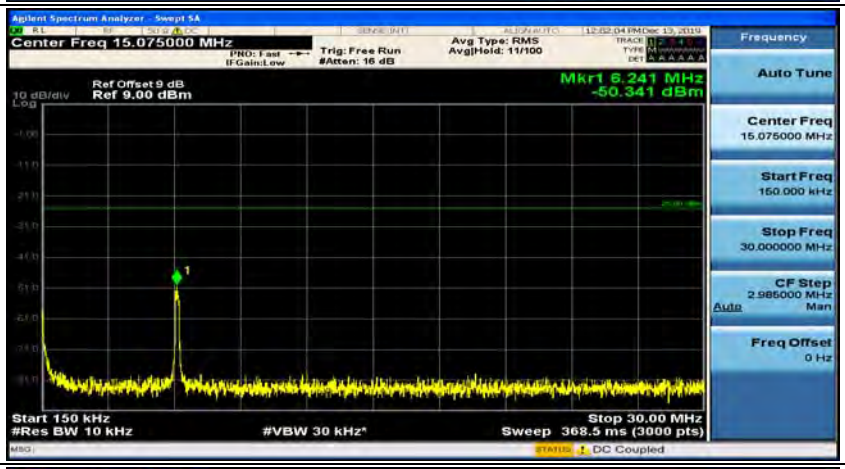
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0





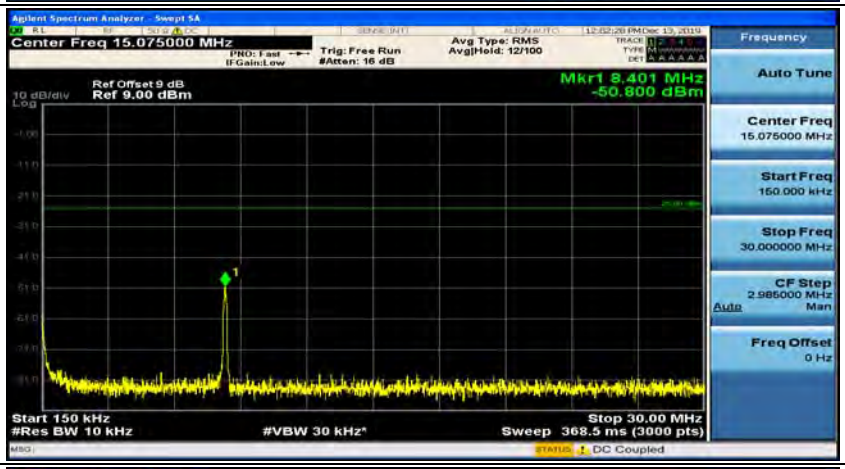
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12





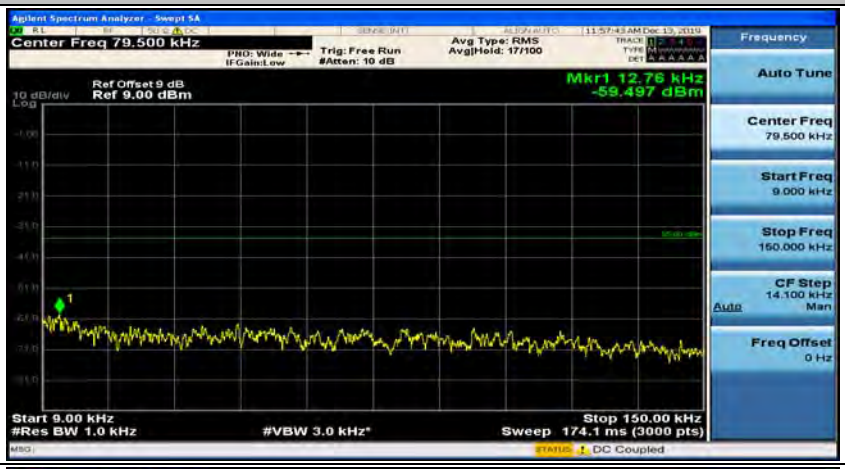
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24

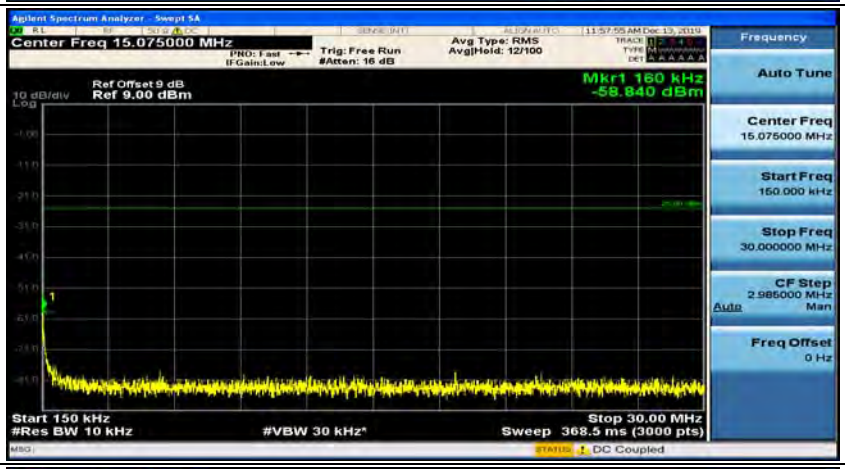
Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 9.94 kHz
-61.464 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 12/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 8.401 MHz
-50.800 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

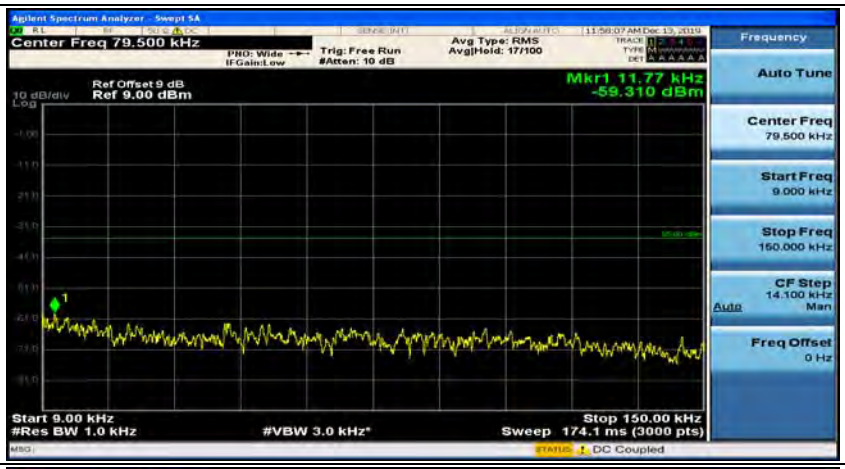
Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: RMS
Avg|Hold: 11/100
Ref Offset 8.95 dB
10 dB/div
Ref 18.95 dBm
Mkr2 25.628 GHz
-45.606 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)
Frequency
Auto Tune
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz

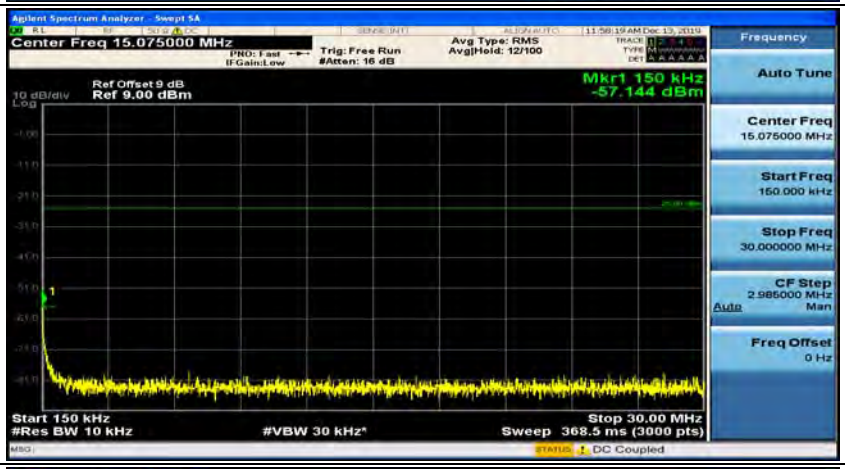
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



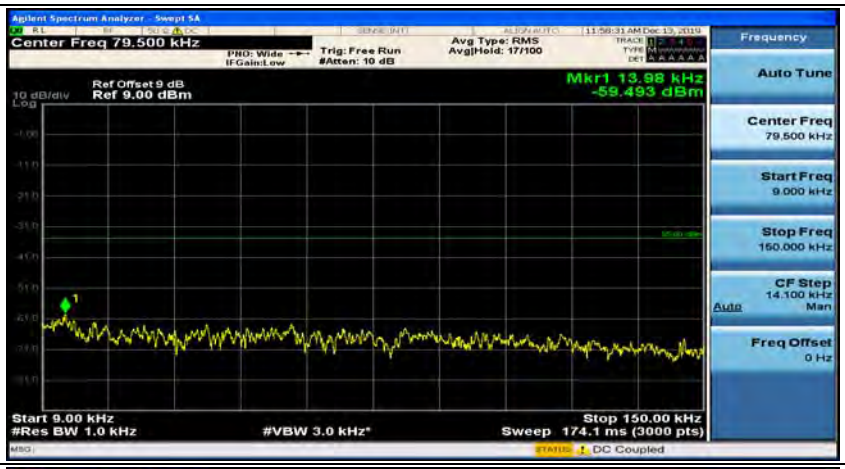


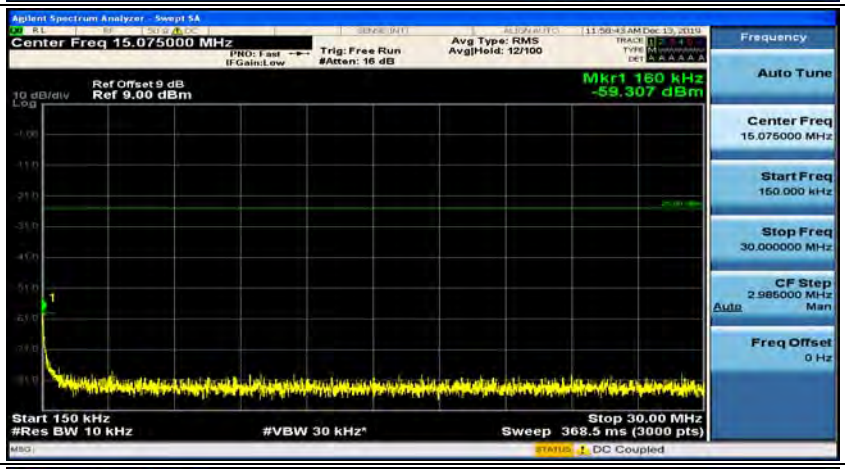
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12





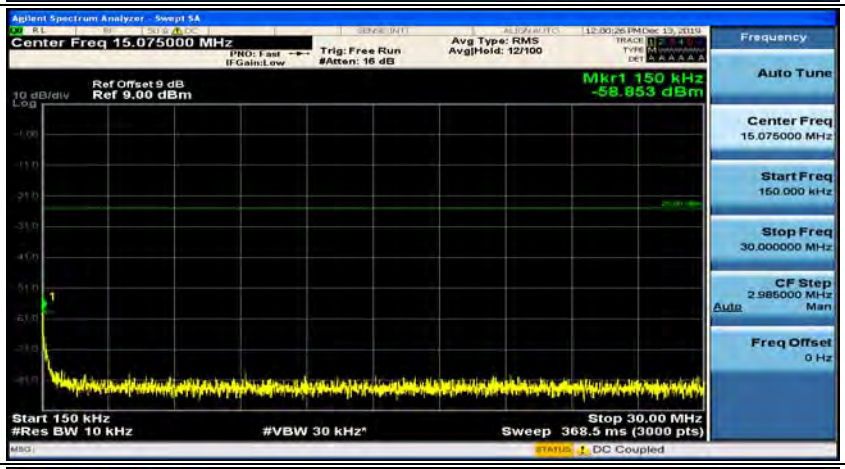
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24


Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 13.98 kHz
-59.493 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz

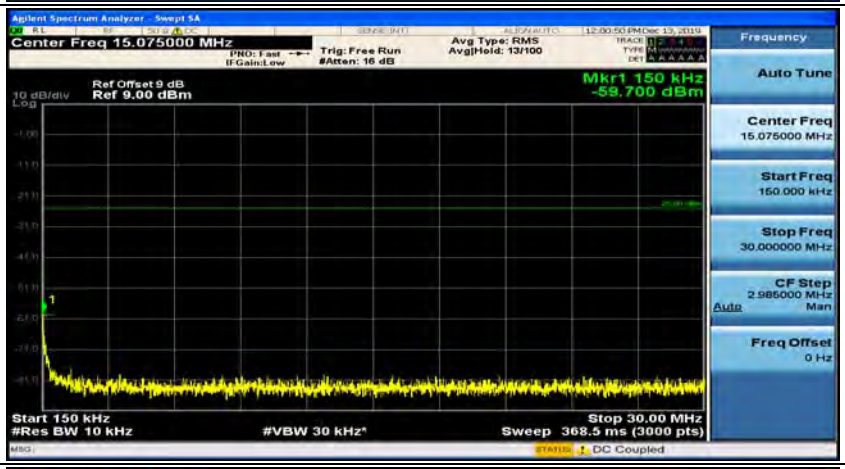

Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 12/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 160 kHz
-59.307 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: RMS
Avg|Hold: 10/100
Ref Offset 8.95 dB
10 dB/div
Ref 18.95 dBm
Mkr2 25.628 GHz
-45.289 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)
Input Overload;ADC over range
Frequency
Auto Tune
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz

(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0

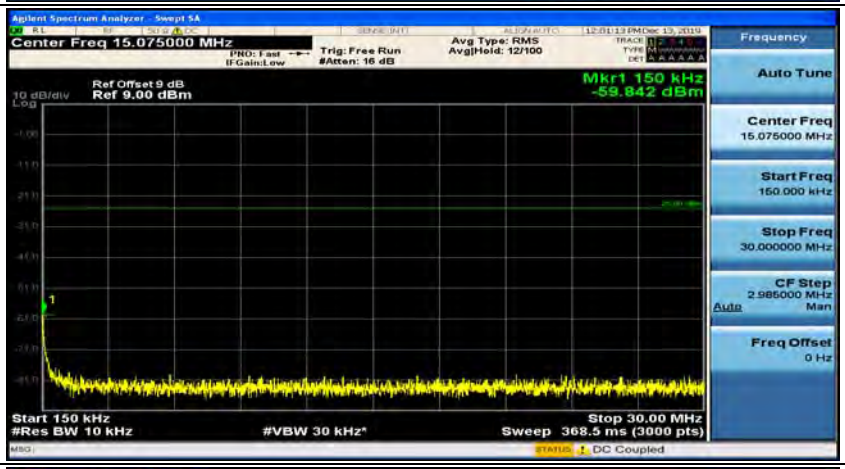


(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12

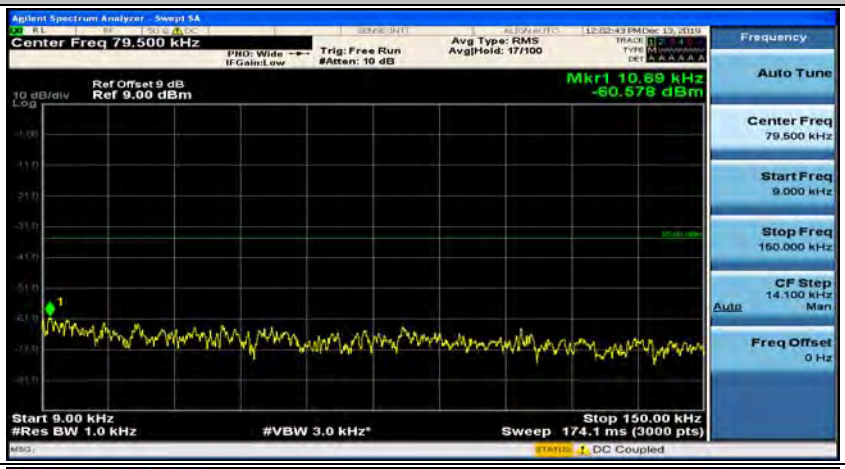
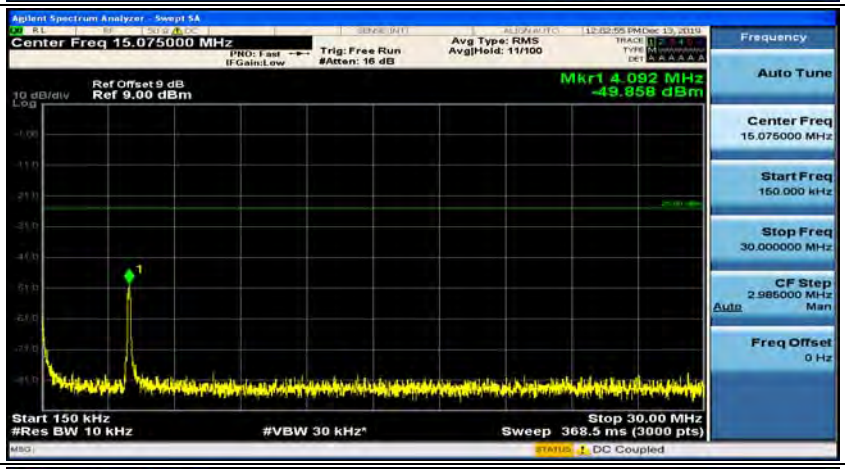


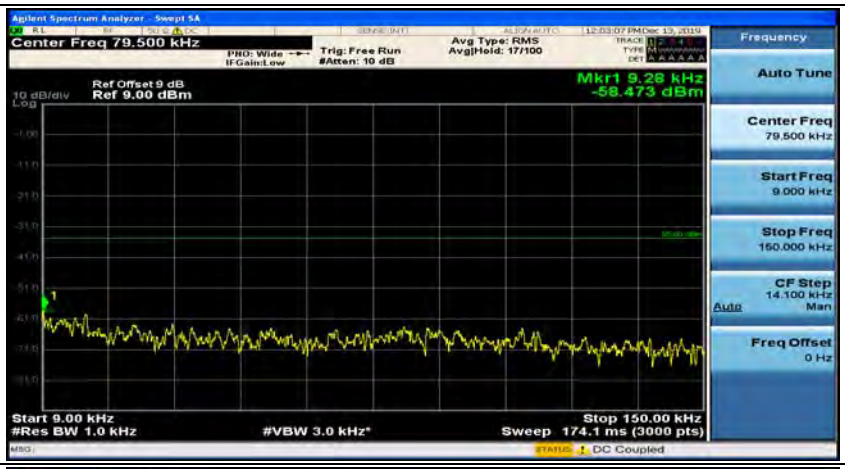
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24

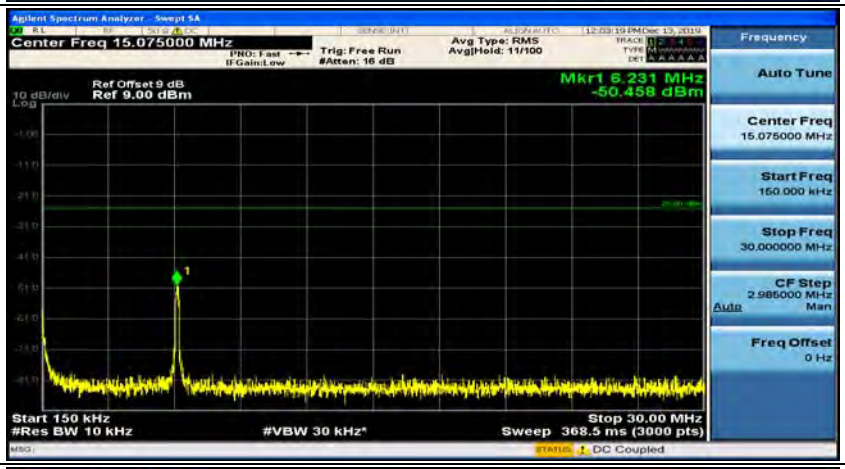
Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 17/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 12.43 kHz
-59.058 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 12/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 150 kHz
-59.842 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

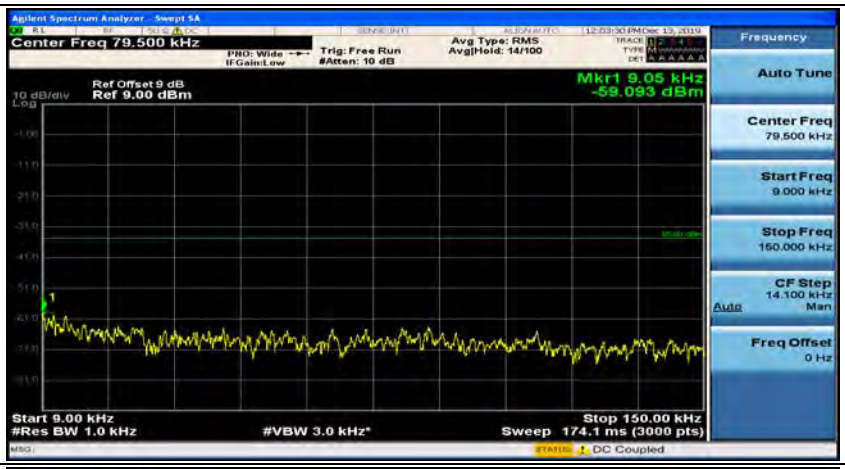
Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: RMS
Avg|Hold: 11/100
Ref Offset 8.95 dB
10 dB/div
Ref 18.95 dBm
Mkr2 25.628 GHz
-45.299 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)
Input Overload;ADC over range
Frequency
Auto Tune
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz

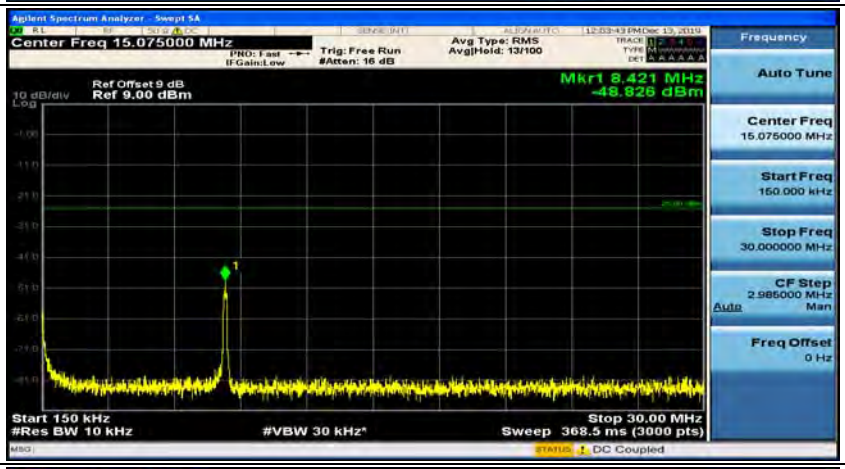
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0


(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12





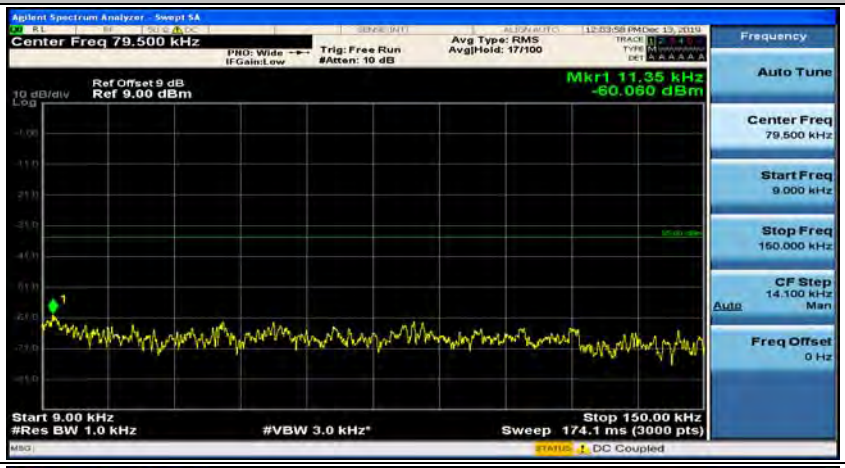
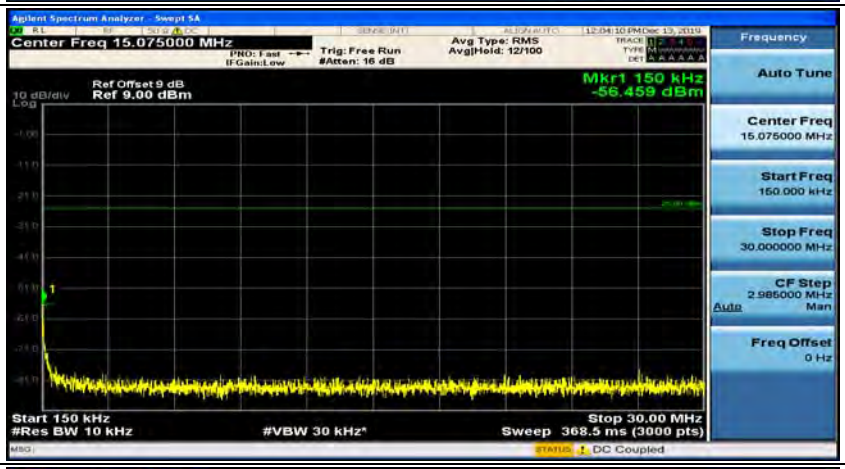
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24

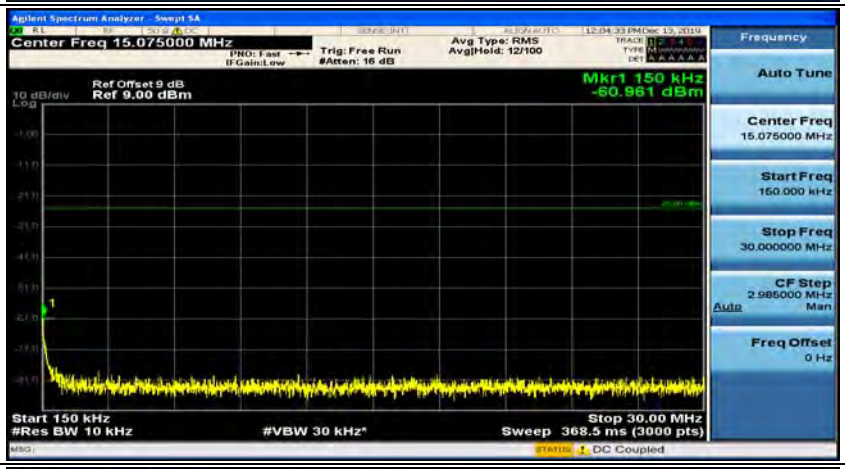

Agilent Spectrum Analyzer - Swept SA
Center Freq 79.500 kHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 10 dB
Avg Type: RMS
Avg|Hold: 14/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 9.05 kHz
-59.093 dBm
Start 9.00 kHz
#Res BW 1.0 kHz
#VBW 3.0 kHz*
Stop 150.00 kHz
Sweep 174.1 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
79.500 kHz
Start Freq
9.000 kHz
Stop Freq
150.000 kHz
CF Step
14.100 kHz
Auto
Man
Freq Offset
0 Hz


Agilent Spectrum Analyzer - Swept SA
Center Freq 15.075000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 13/100
Ref Offset 9 dB
10 dB/div
Ref 9.00 dBm
Mkr1 8.421 MHz
-48.826 dBm
Start 150 kHz
#Res BW 10 kHz
#VBW 30 kHz*
Stop 30.00 MHz
Sweep 368.5 ms (3000 pts)
DC Coupled
Frequency
Auto Tune
Center Freq
15.075000 MHz
Start Freq
150.000 kHz
Stop Freq
30.000000 MHz
CF Step
2.985000 MHz
Auto
Man
Freq Offset
0 Hz

Agilent Spectrum Analyzer - Swept SA
Center Freq 13.015000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 20 dB
Avg Type: RMS
Avg|Hold: 11/100
Ref Offset 8.95 dB
10 dB/div
Ref 18.95 dBm
Mkr2 25.134 GHz
-45.431 dBm
Start 30 MHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 26.00 GHz
Sweep 64.98 ms (3000 pts)
Input Overload;ADC over range
Frequency
Auto Tune
Center Freq
13.015000000 GHz
Start Freq
30.000000 MHz
Stop Freq
26.000000000 GHz
CF Step
2.597000000 GHz
Auto
Man
Freq Offset
0 Hz

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0


Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24



Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49