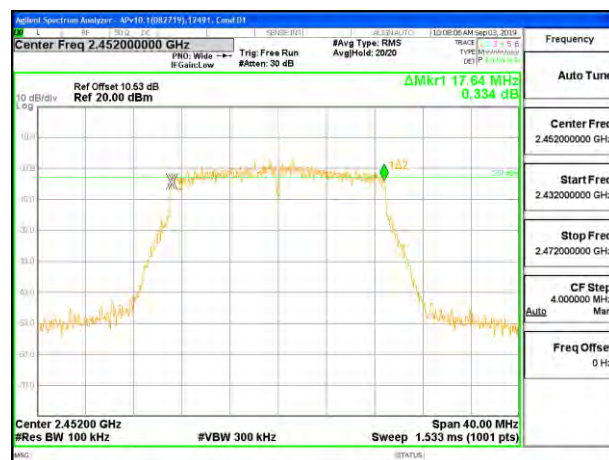




MID CHANNEL 6 UAT 1



MID CHANNEL 6 LAT 3



HIGH CHANNEL 9 UAT 1



HIGH CHANNEL 9 LAT 3



HIGH CHANNEL 10 UAT 1



HIGH CHANNEL 10 LAT 3



HIGH CHANNEL 11 UAT 1



HIGH CHANNEL 11 LAT 3



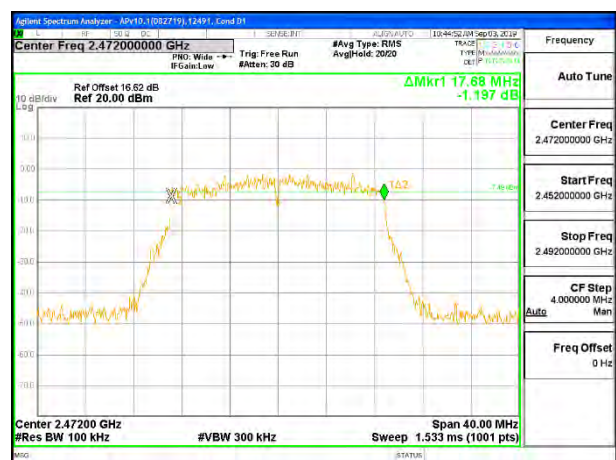
HIGH CHANNEL 12 UAT 1



HIGH CHANNEL 12 LAT 3



HIGH CHANNEL 13 UAT 1

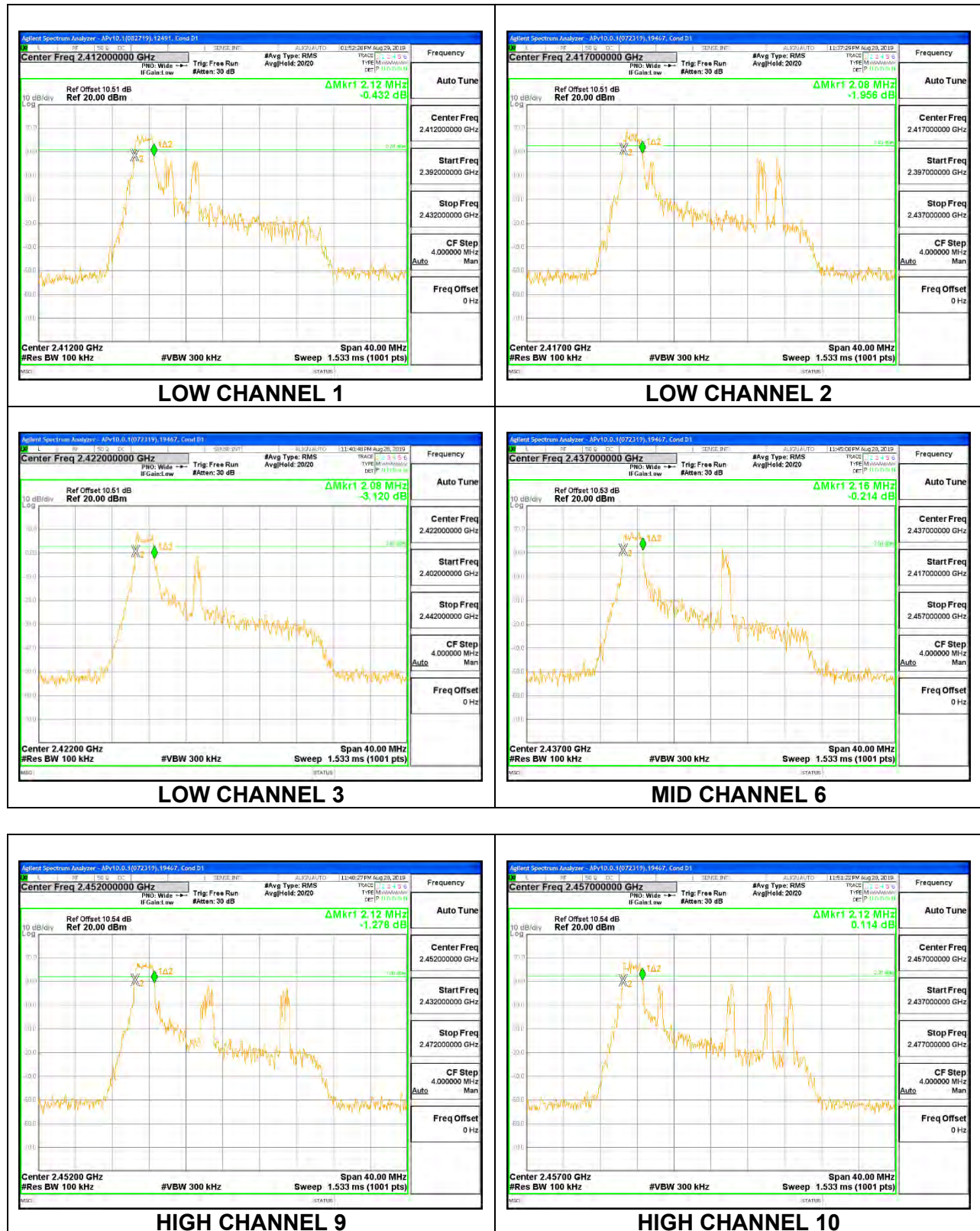


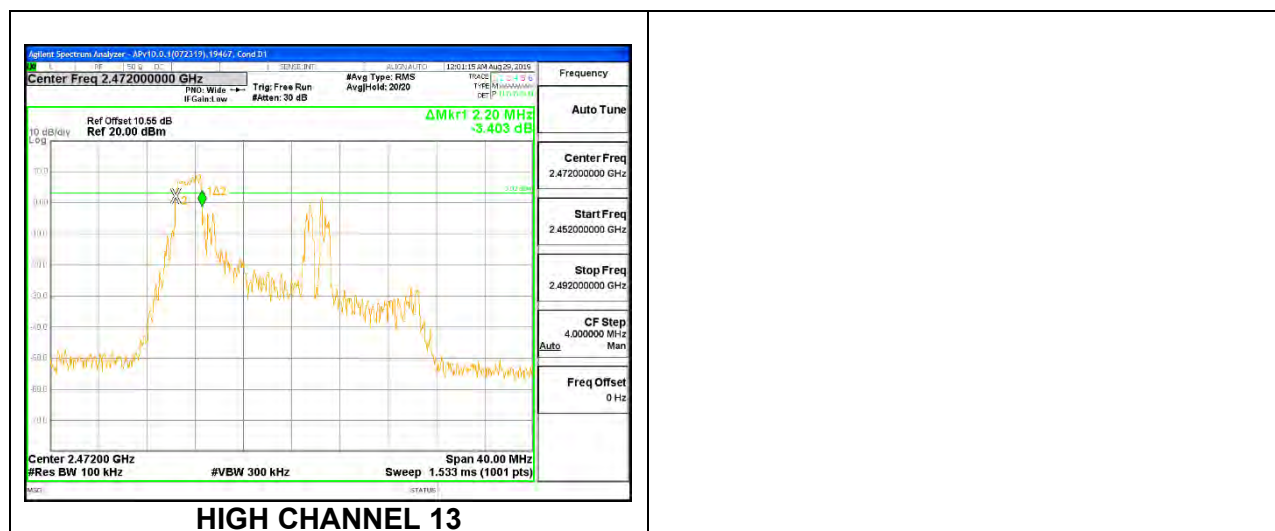
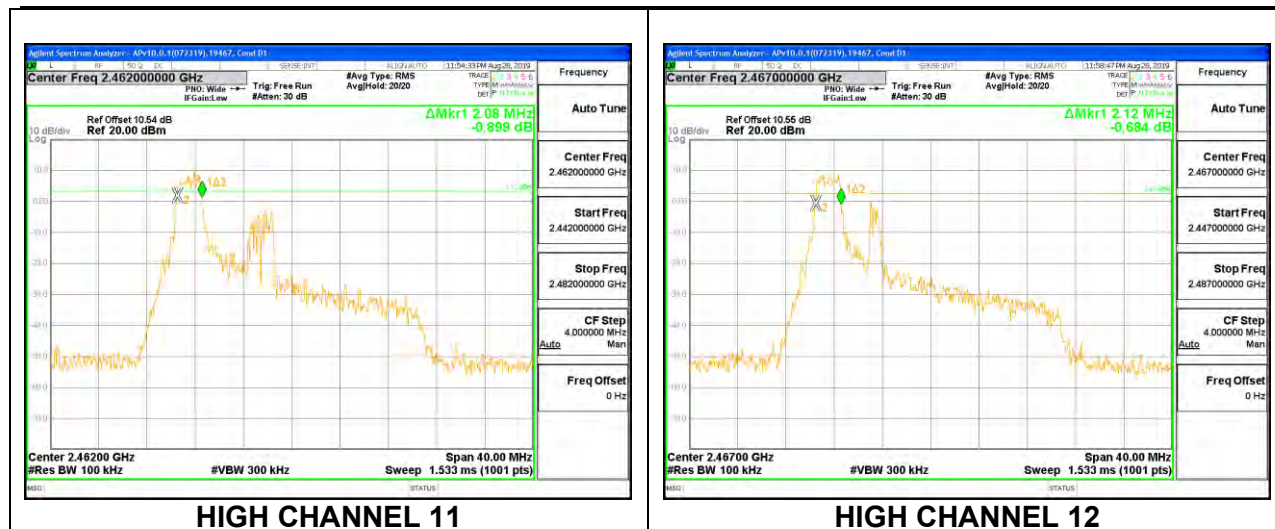
HIGH CHANNEL 13 LAT 3

8.3.3. 802.11ax HE20 MODE

UAT 1, LEGACY SISO MODE: 26-Tones, RU index 0

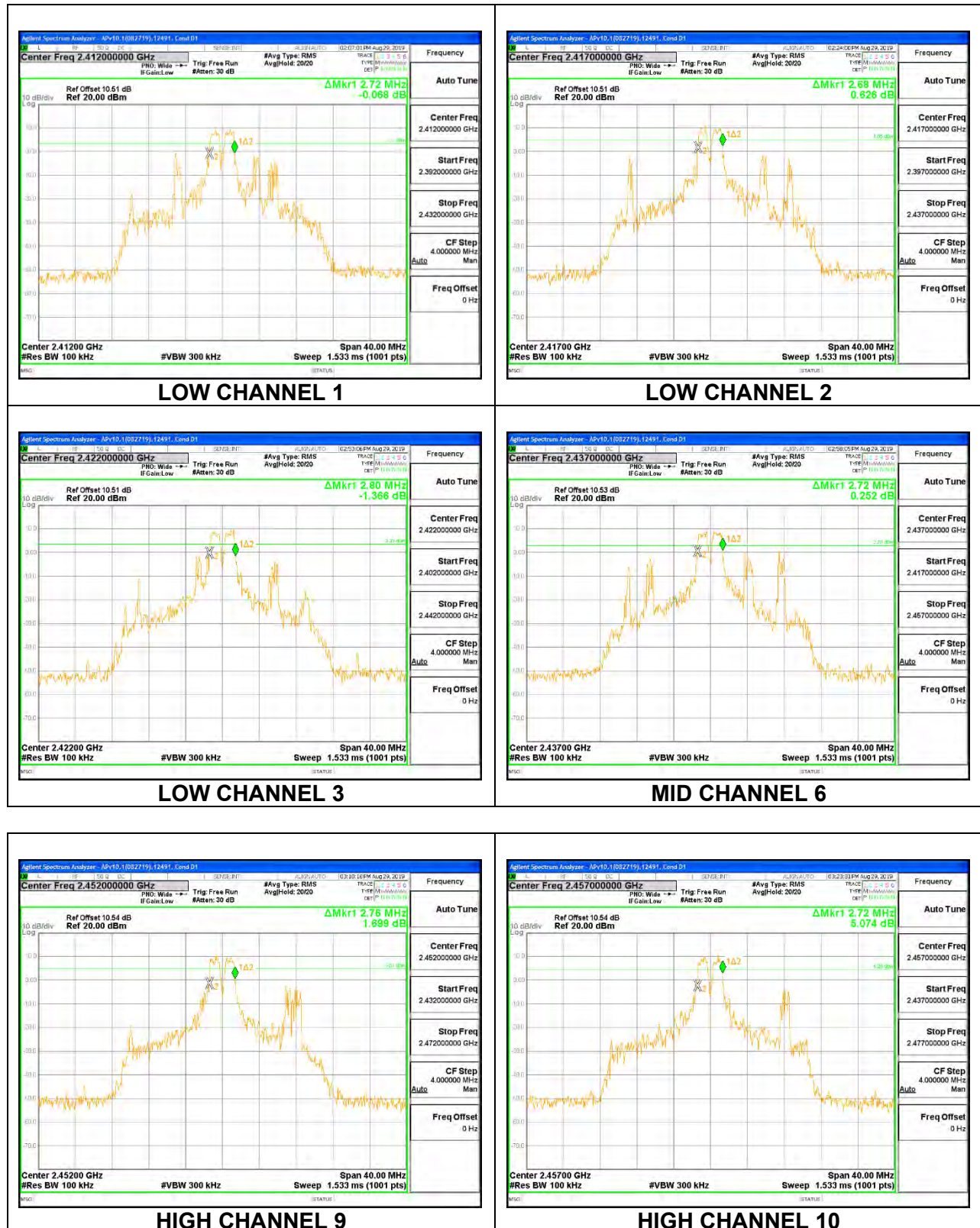
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)
Low 1	2412	2.120	0.5
Low 2	2417	2.080	0.5
Low 3	2422	2.080	0.5
Mid 6	2437	2.160	0.5
High 9	2452	2.120	0.5
High 10	2457	2.120	0.5
High 11	2462	2.080	0.5
High 12	2467	2.120	0.5
High 13	2472	2.200	0.5

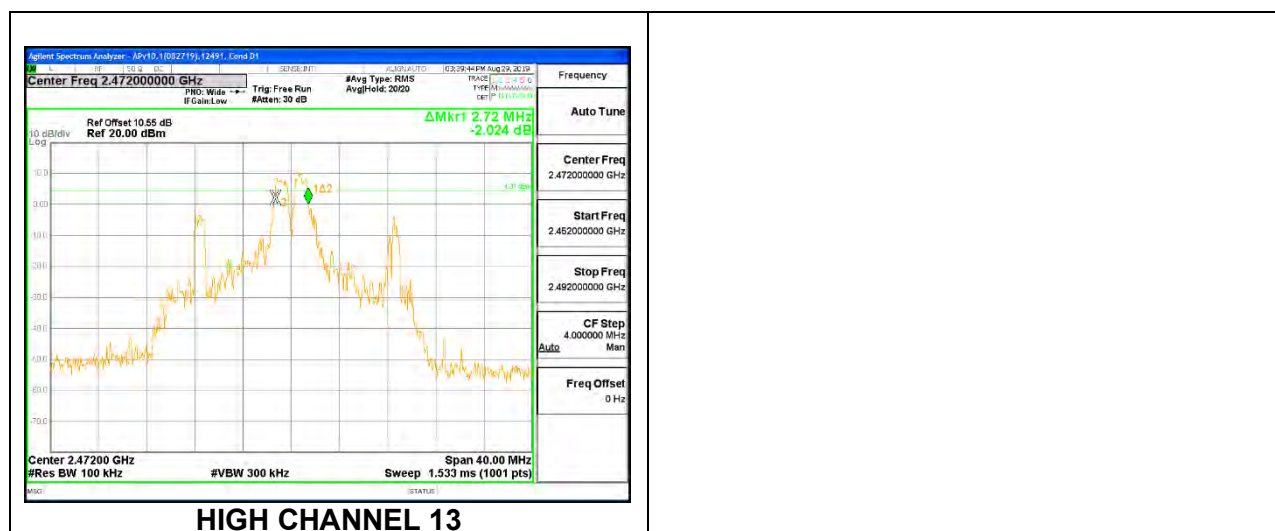
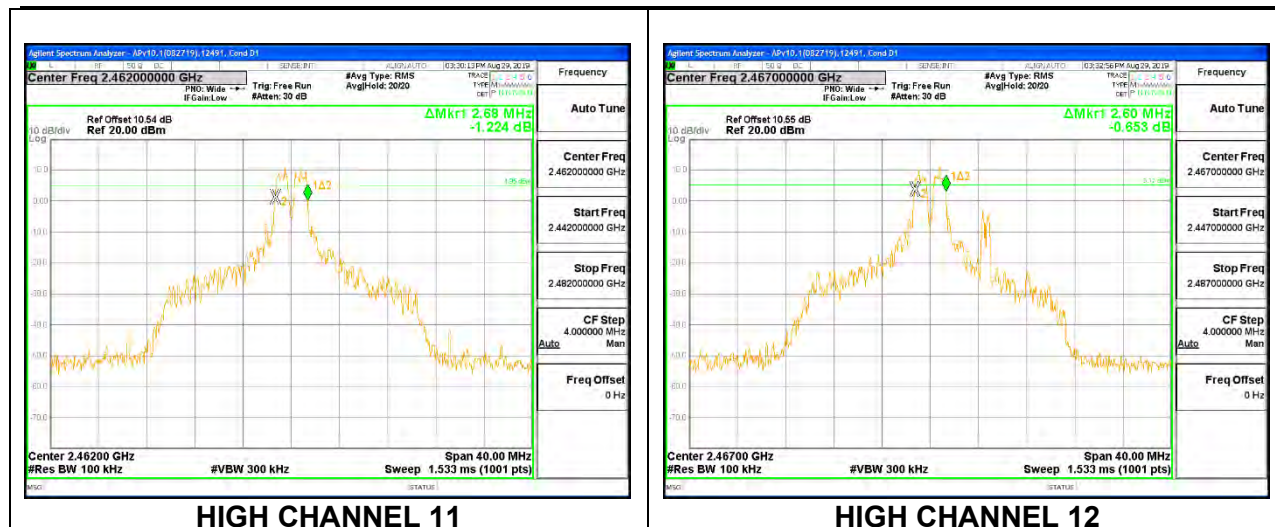




UAT 1, LEGACY SISO MODE: 26-Tones, RU index 4

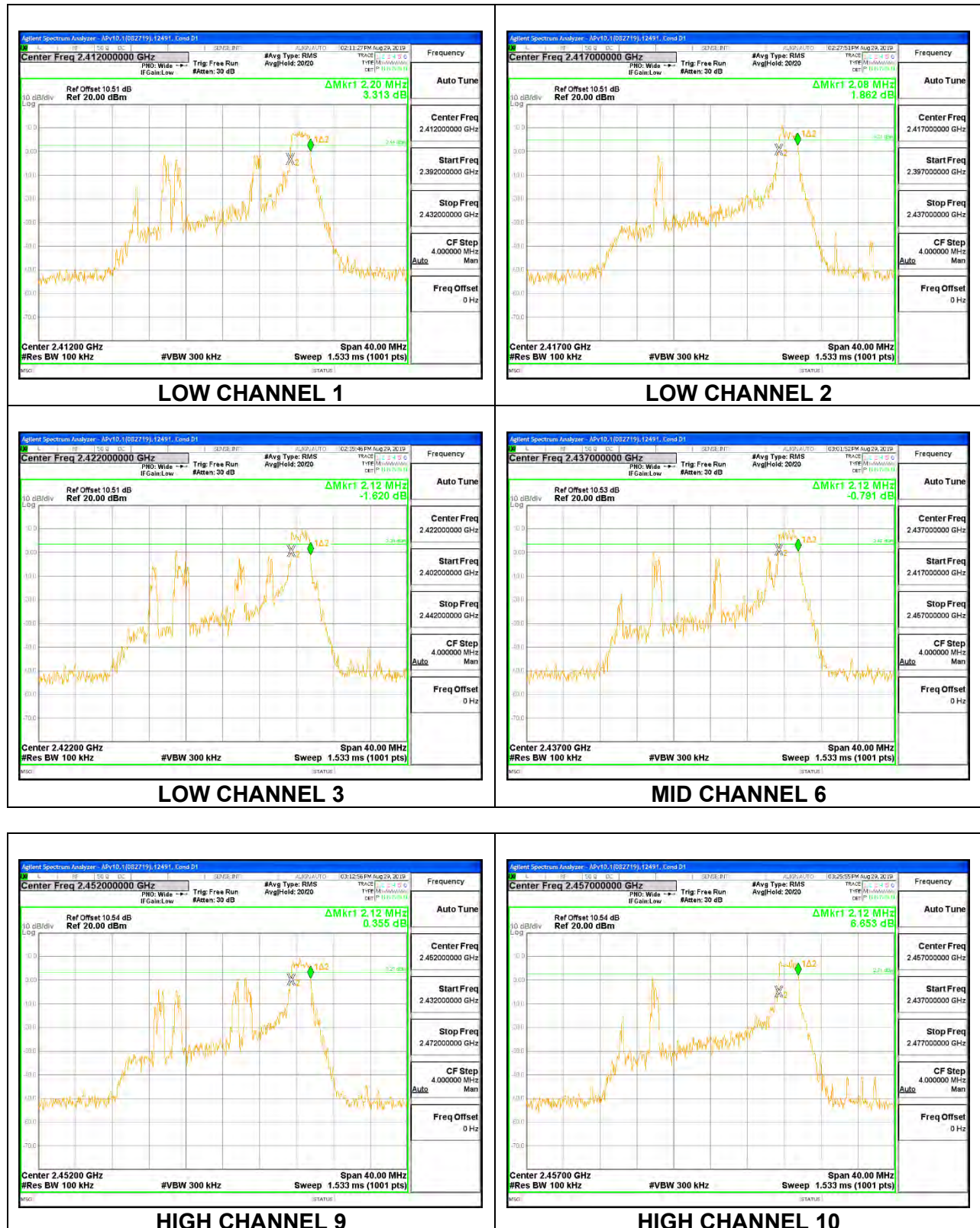
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)
Low 1	2412	2.720	0.5
Low 2	2417	2.680	0.5
Low 3	2422	2.800	0.5
Mid 6	2437	2.720	0.5
High 9	2452	2.760	0.5
High 10	2457	2.720	0.5
High 11	2462	2.680	0.5
High 12	2467	2.600	0.5
High 13	2472	2.720	0.5

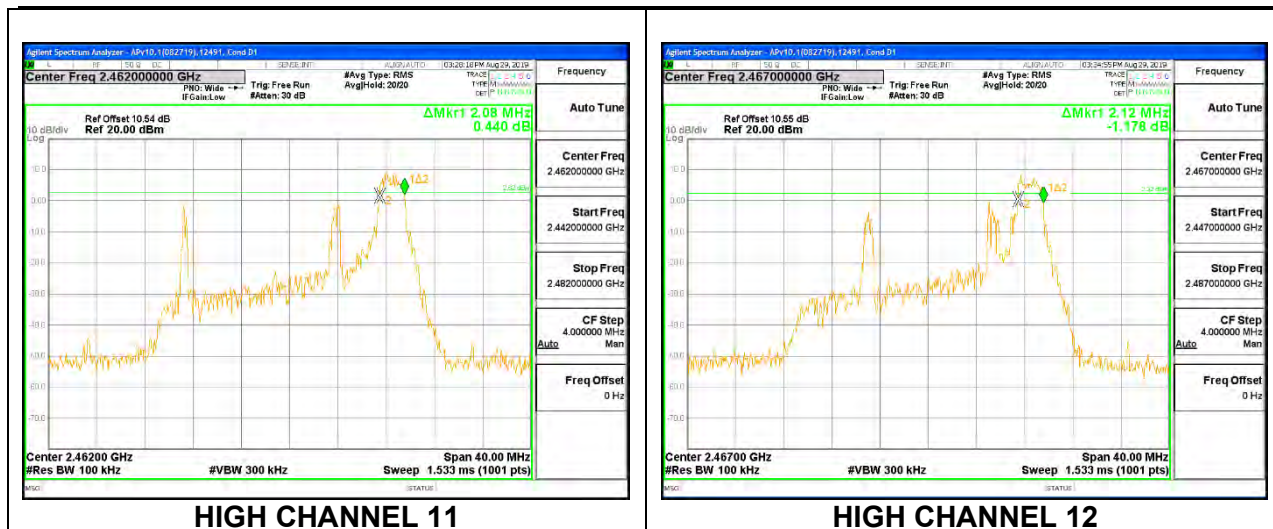




UAT 1, LEGACY SISO MODE: 26-Tones, RU index 8

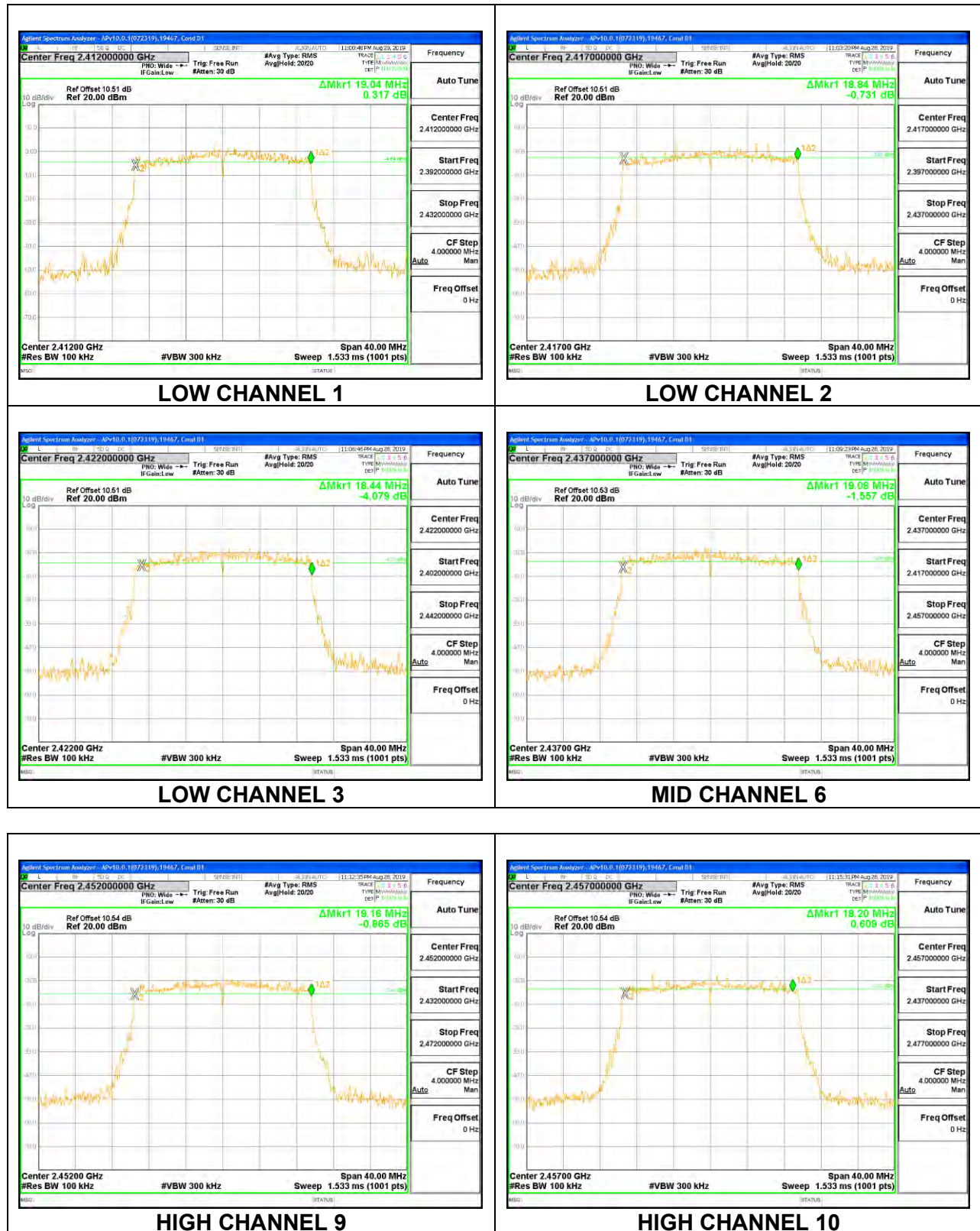
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)
Low 1	2412	2.200	0.5
Low 2	2417	2.080	0.5
Low 3	2422	2.120	0.5
Mid 6	2437	2.120	0.5
High 9	2452	2.120	0.5
High 10	2457	2.120	0.5
High 11	2462	2.080	0.5
High 12	2467	2.120	0.5
High 13	2472	2.040	0.5

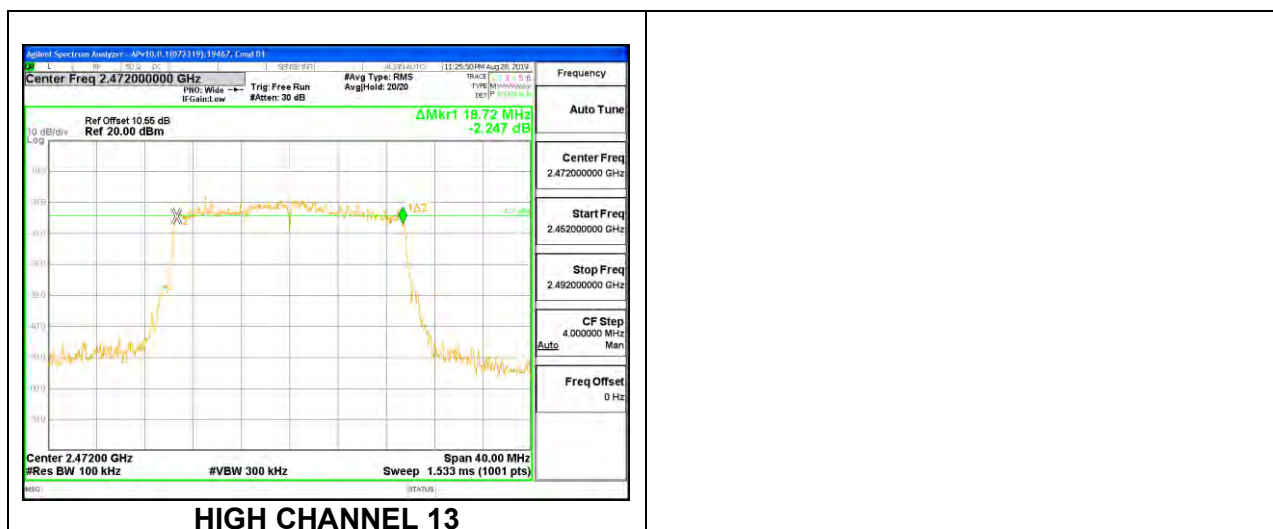
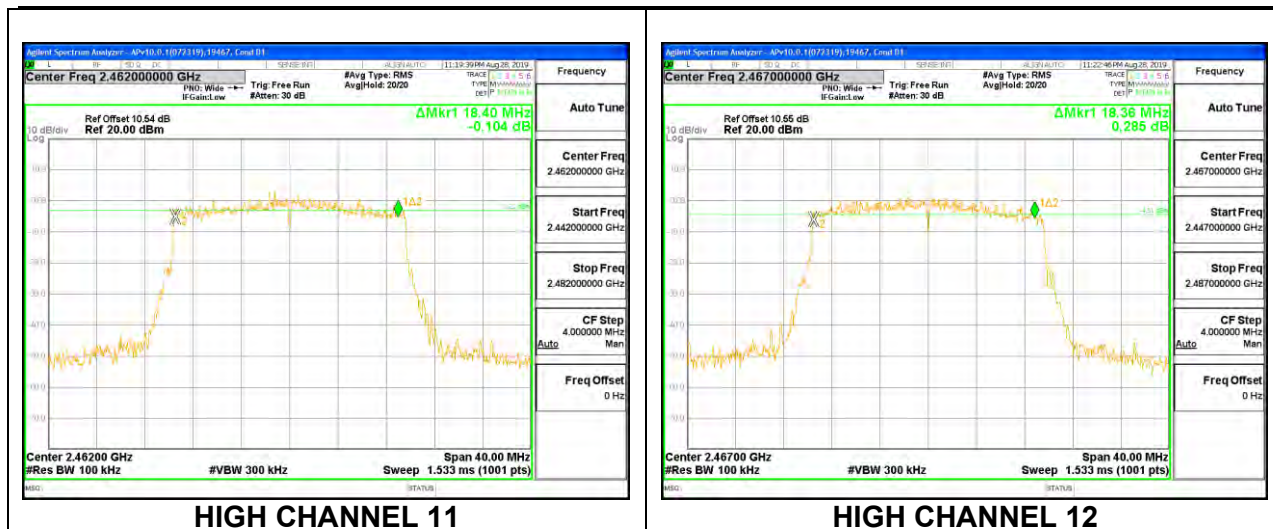




UAT 1, LEGACY SISO MODE: 242-Tones, RU index 61

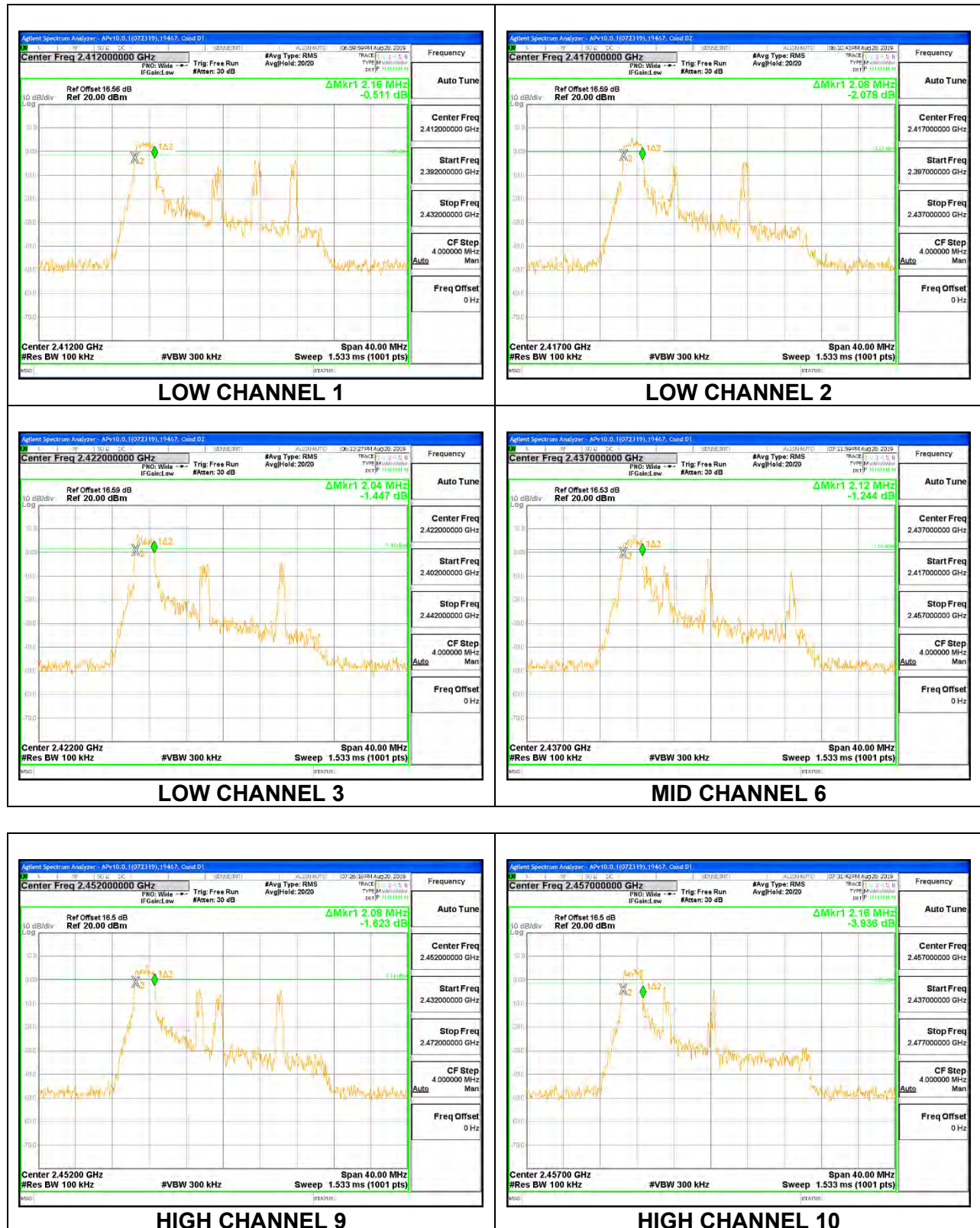
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)
Low 1	2412	19.040	0.5
Low 2	2417	18.840	0.5
Low 3	2422	18.440	0.5
Mid 6	2437	19.080	0.5
High 9	2452	19.160	0.5
High 10	2457	18.200	0.5
High 11	2462	18.400	0.5
High 12	2467	18.360	0.5
High 13	2472	18.720	0.5

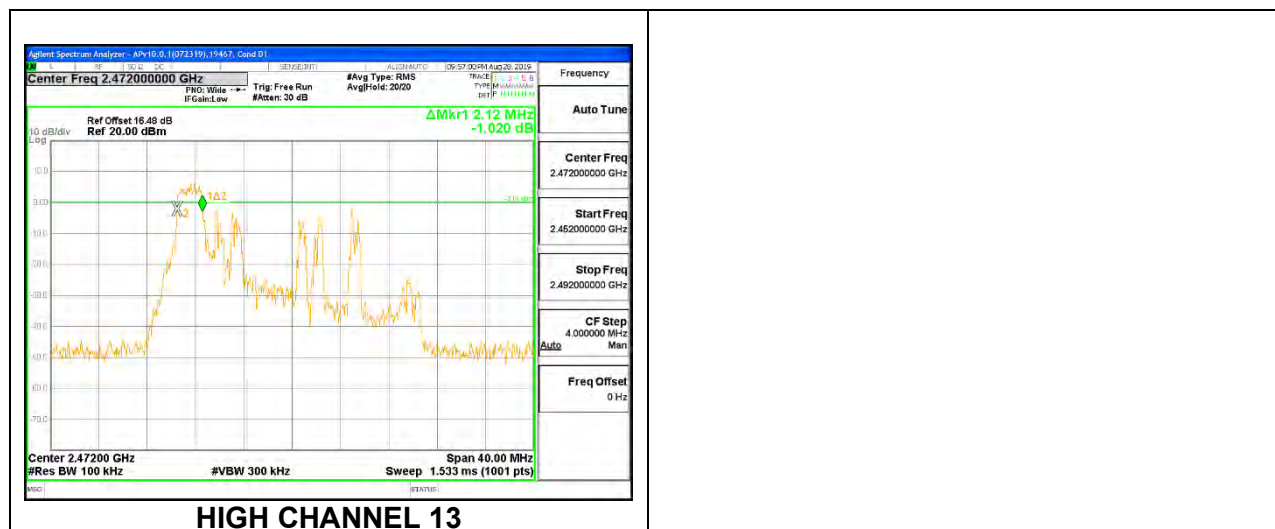
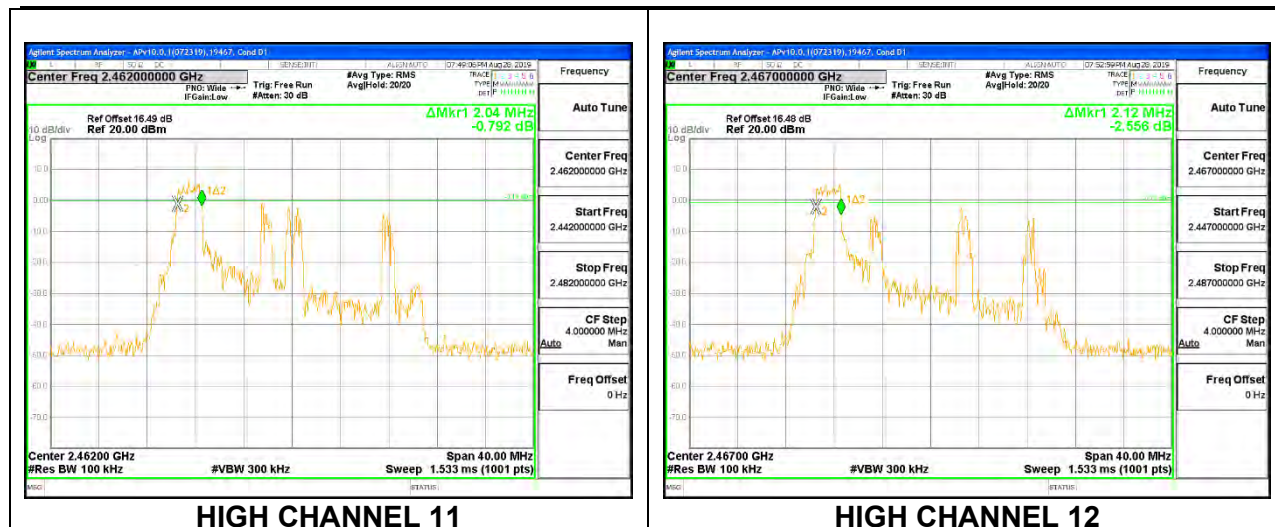




LAT 3, LEGACY SISO MODE: 26-Tones, RU index 0

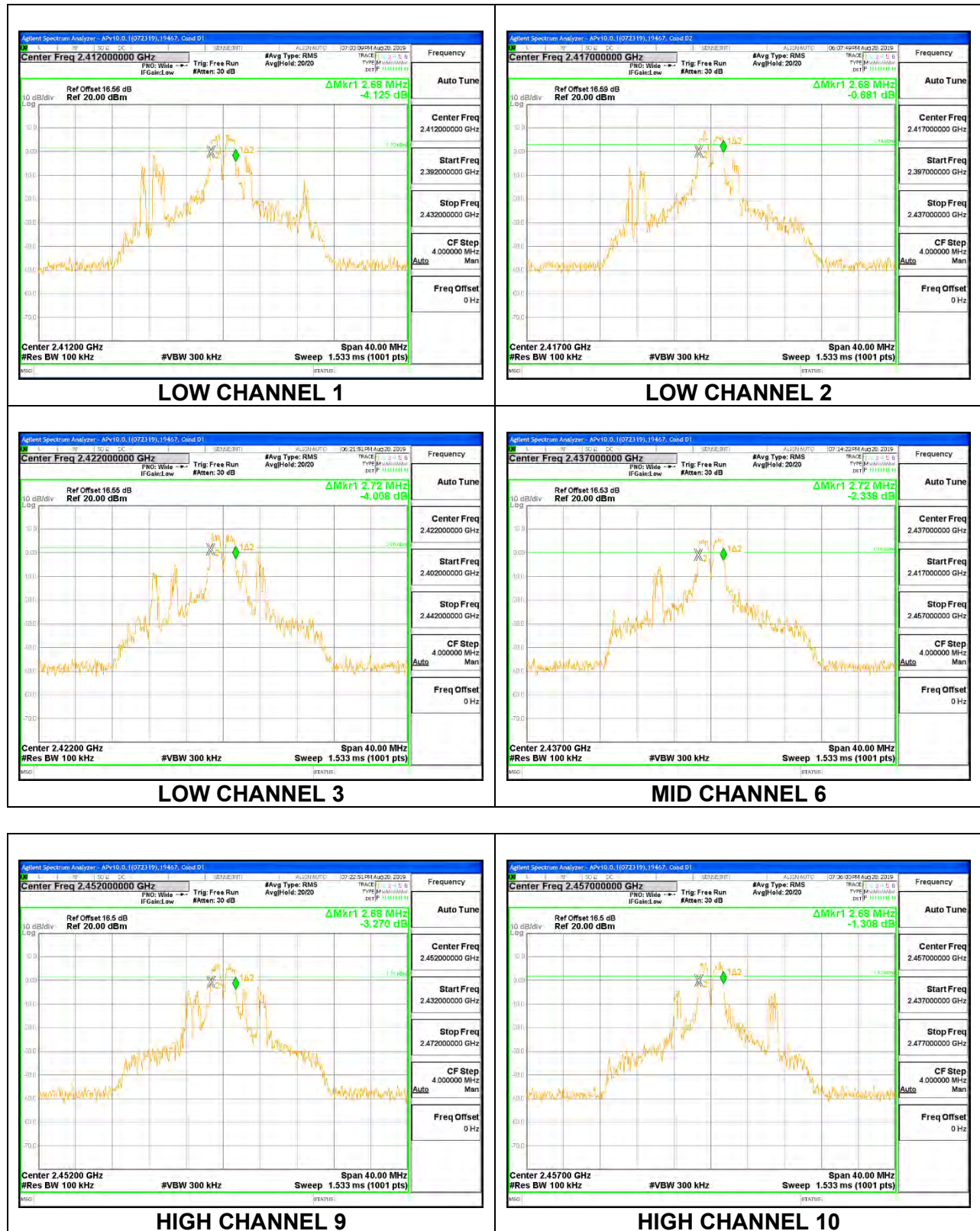
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)
Low 1	2412	2.160	0.5
Low 2	2417	2.080	0.5
Low 3	2422	2.040	0.5
Mid 6	2437	2.120	0.5
High 9	2452	2.080	0.5
High 10	2457	2.160	0.5
High 11	2462	2.040	0.5
High 12	2467	2.120	0.5
High 13	2472	2.120	0.5

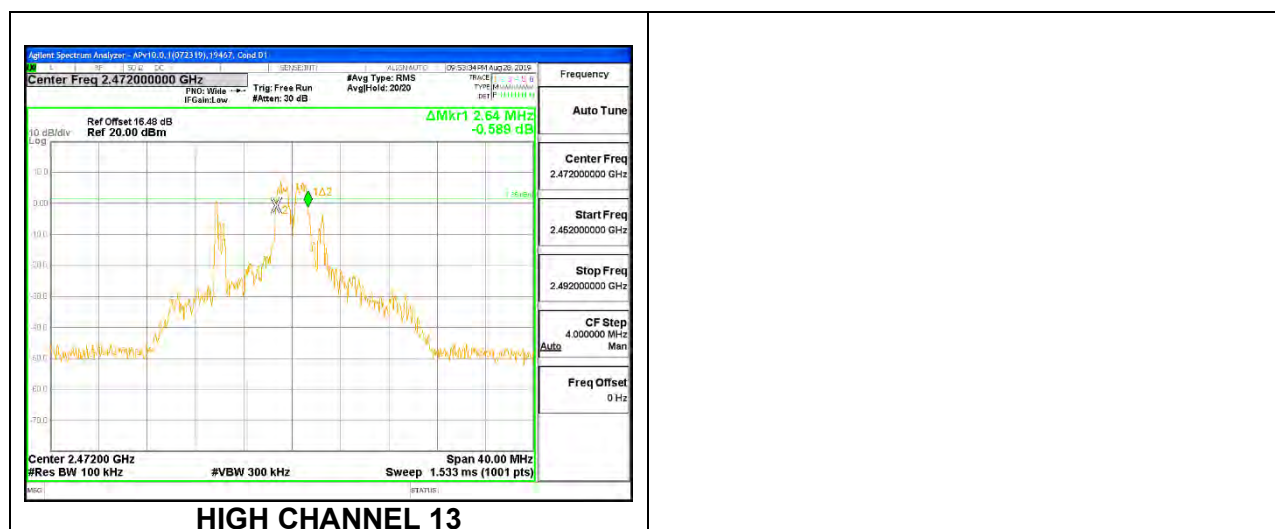
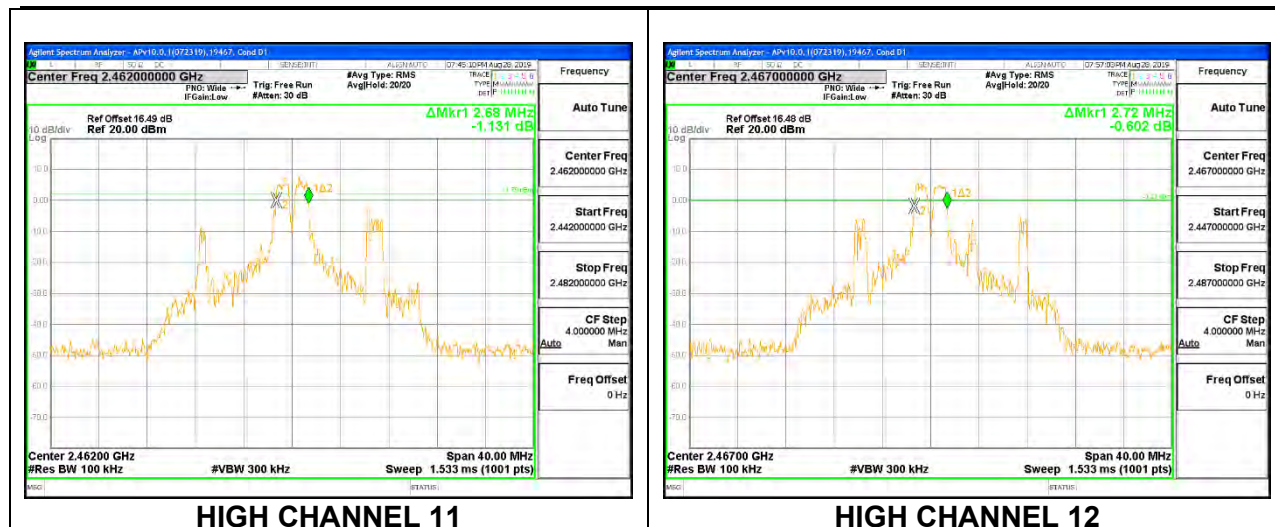




LAT 3, LEGACY SISO MODE: 26-Tones, RU index 4

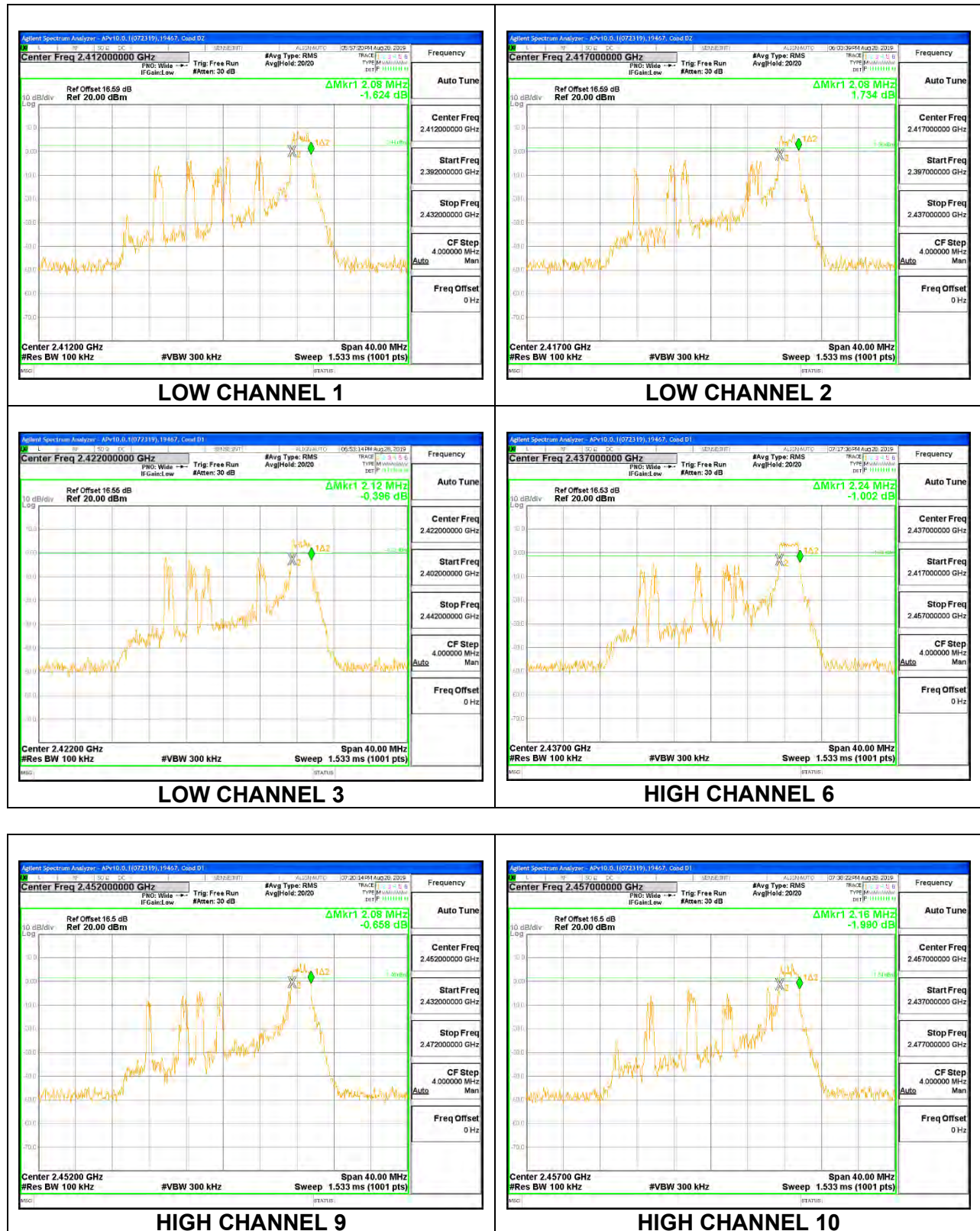
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)
Low 1	2412	2.680	0.5
Low 2	2417	2.680	0.5
Low 3	2422	2.720	0.5
Mid 6	2437	2.720	0.5
High 9	2452	2.680	0.5
High 10	2457	2.680	0.5
High 11	2462	2.680	0.5
High 12	2467	2.720	0.5
High 13	2472	2.640	0.5

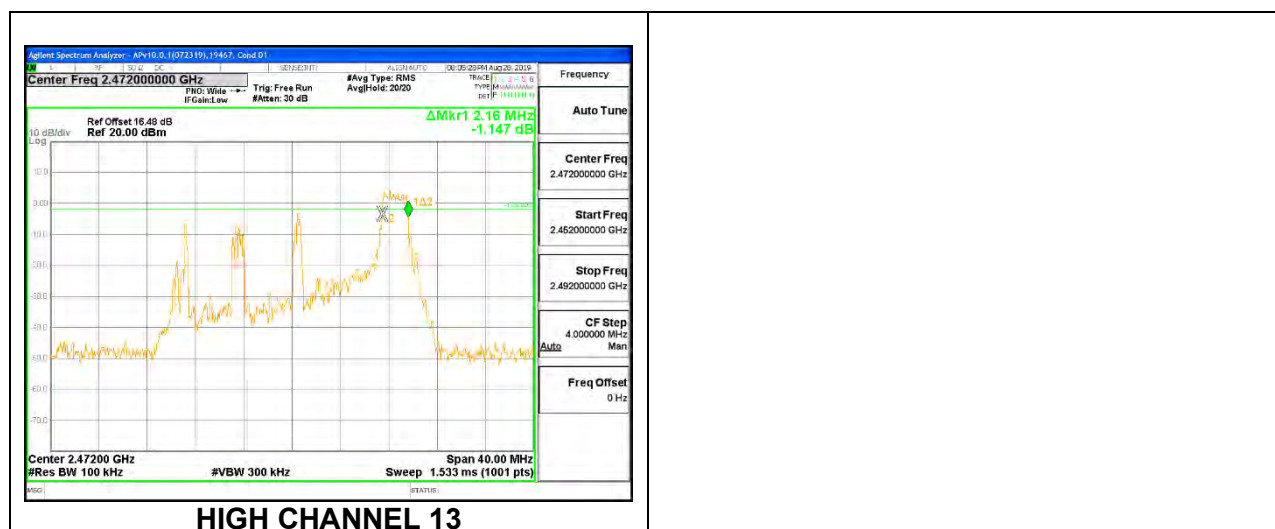
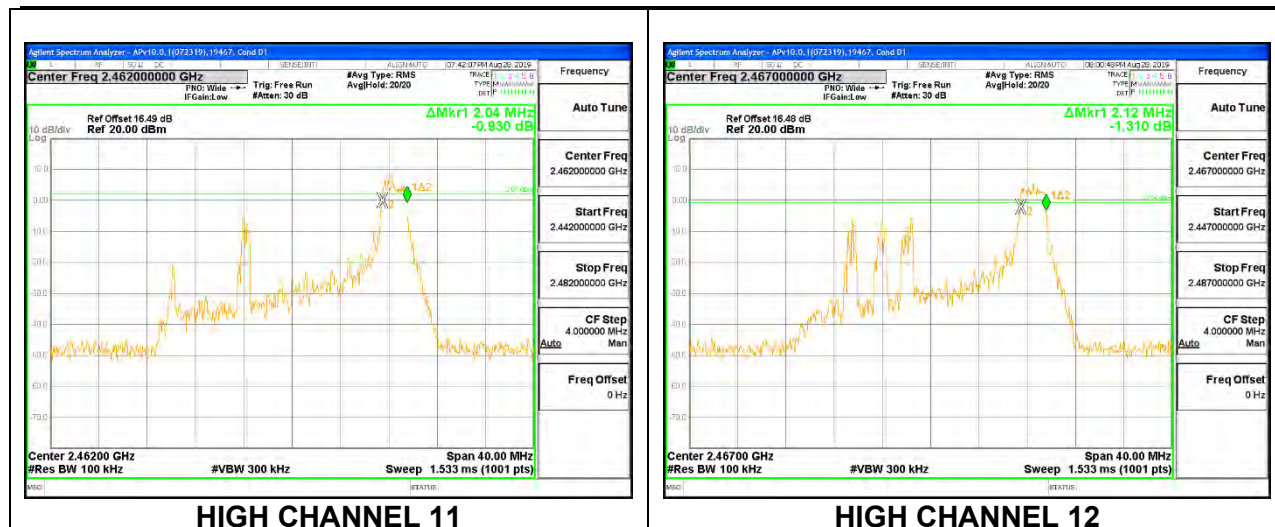




LAT 3, LEGACY SISO MODE: 26-Tones, RU index 8

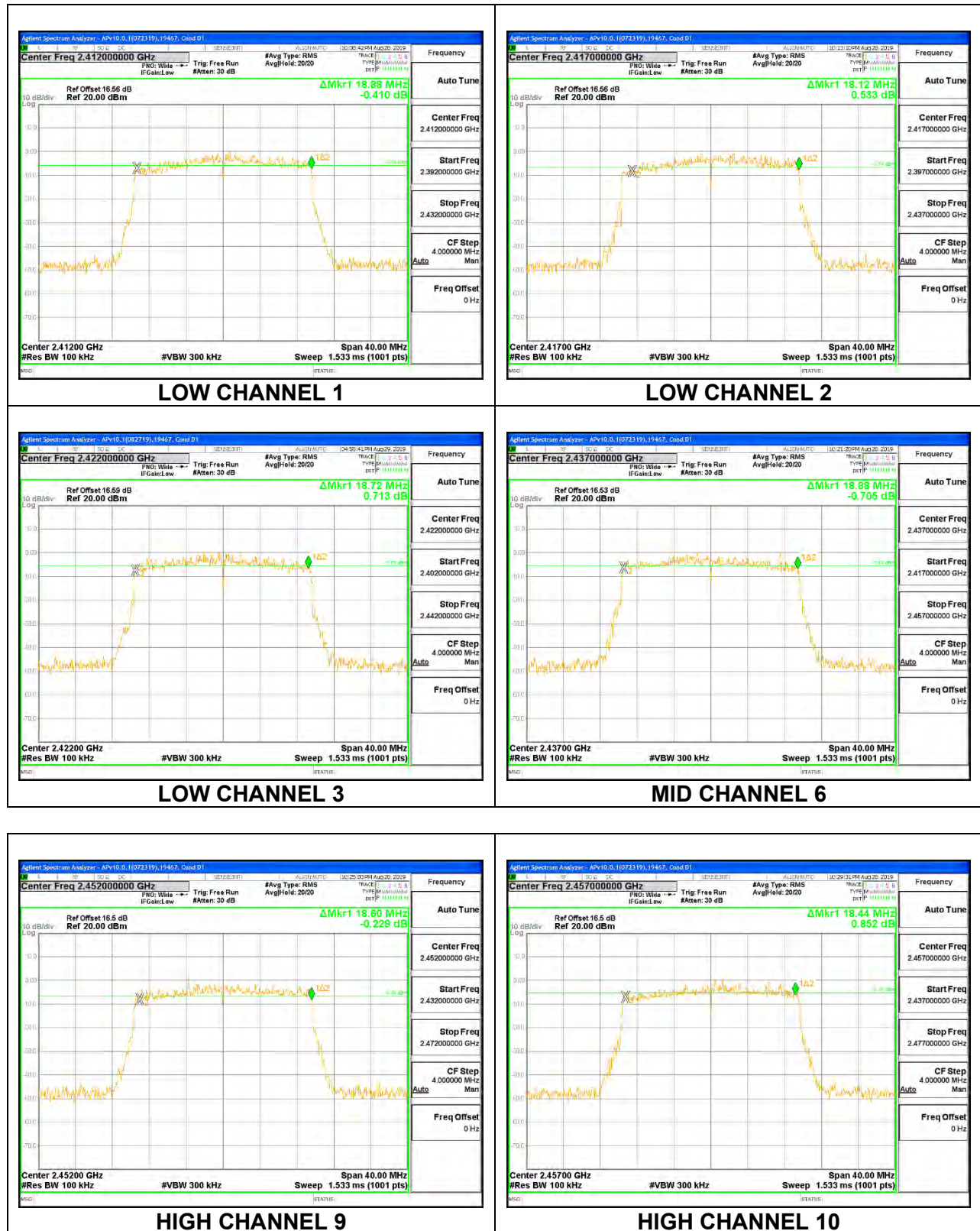
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)
Low 1	2412	2.080	0.5
Low 2	2417	2.080	0.5
Low 3	2422	2.120	0.5
Mid 6	2437	2.240	0.5
High 9	2452	2.080	0.5
High 10	2457	2.160	0.5
High 11	2462	2.040	0.5
High 12	2467	2.120	0.5
High 13	2472	2.160	0.5

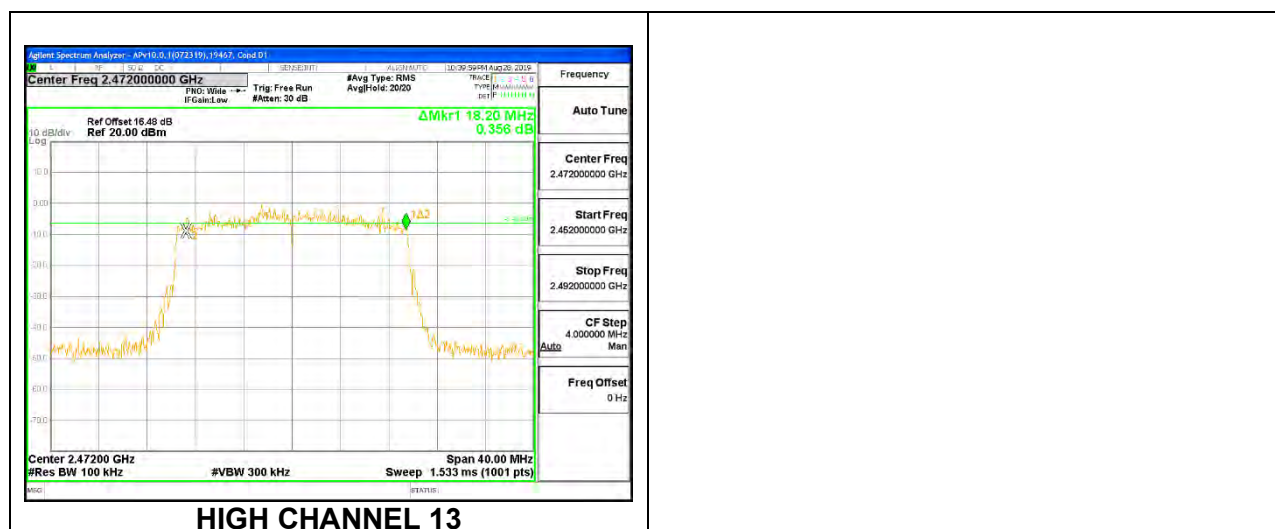
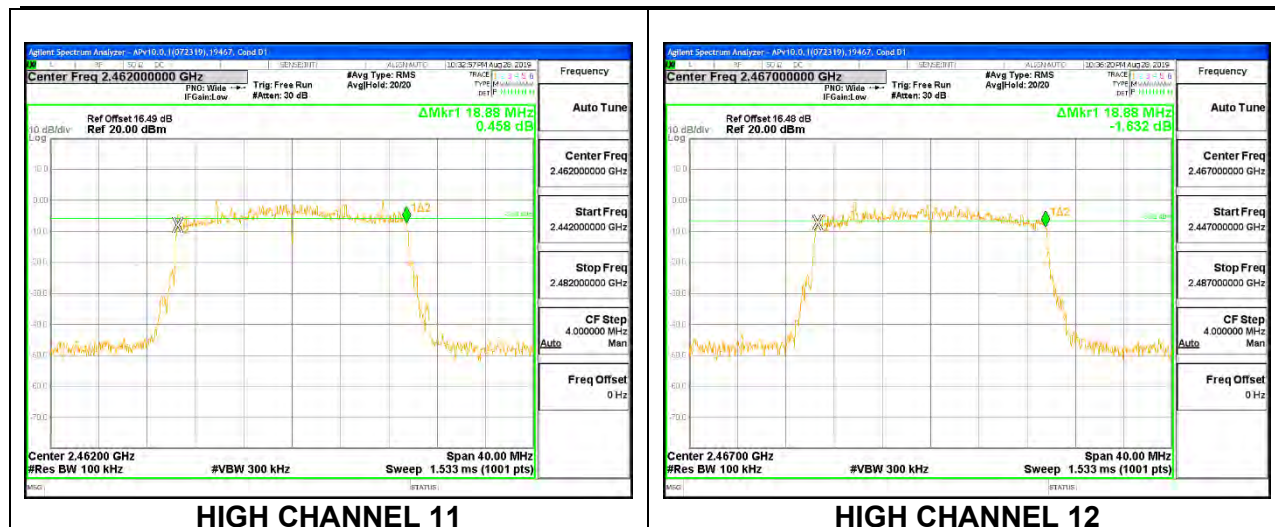




LAT 3, LEGACY SISO MODE: 242-Tones, RU index 61

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)
Low 1	2412	18.880	0.5
Low 2	2417	18.120	0.5
Low 3	2422	18.720	0.5
Mid 6	2437	18.880	0.5
High 9	2452	18.600	0.5
High 10	2457	18.440	0.5
High 11	2462	18.880	0.5
High 12	2467	18.880	0.5
High 13	2472	18.200	0.5

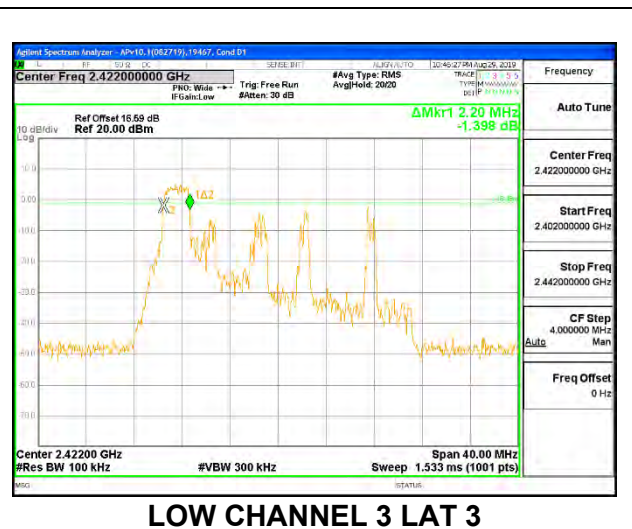
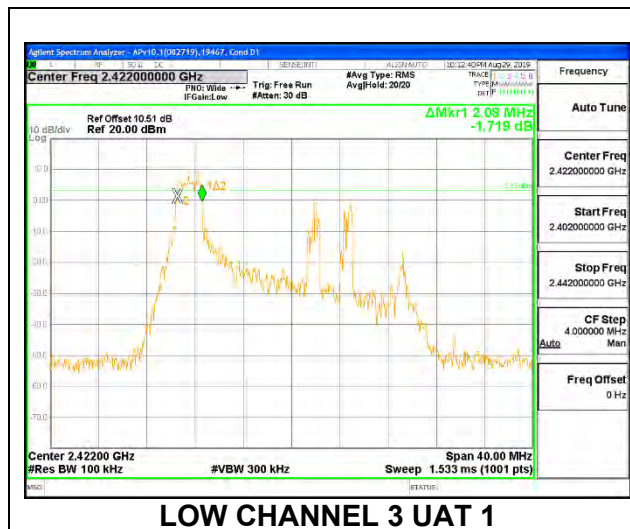
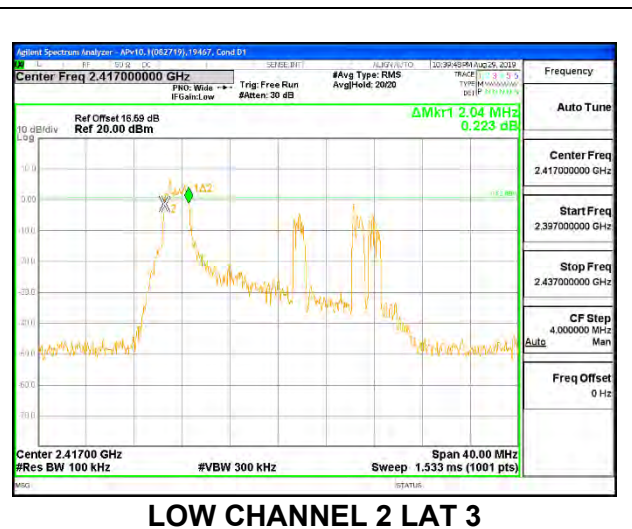
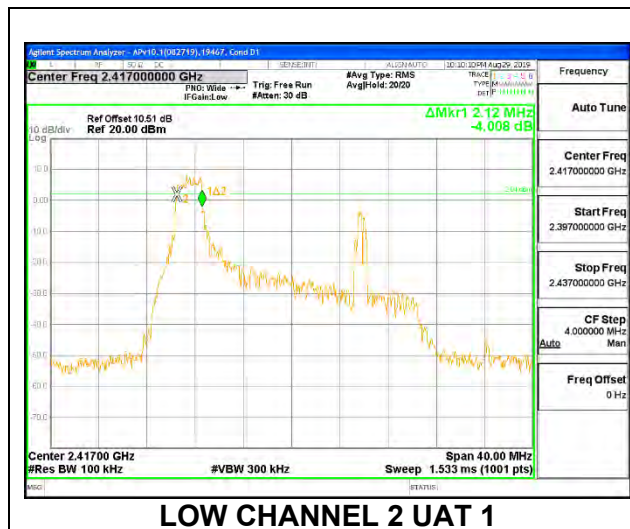
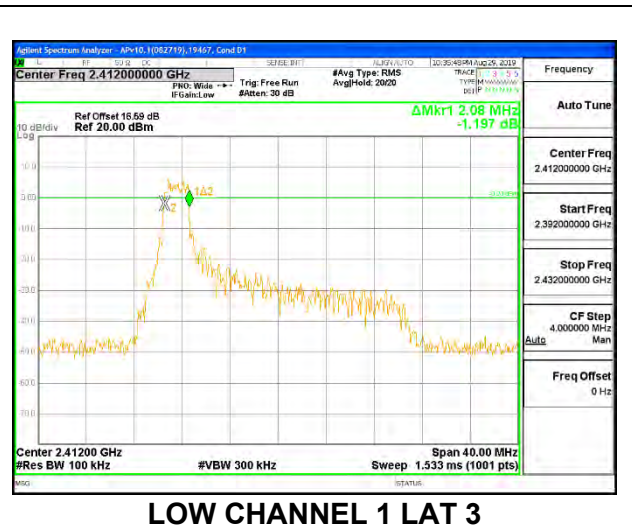
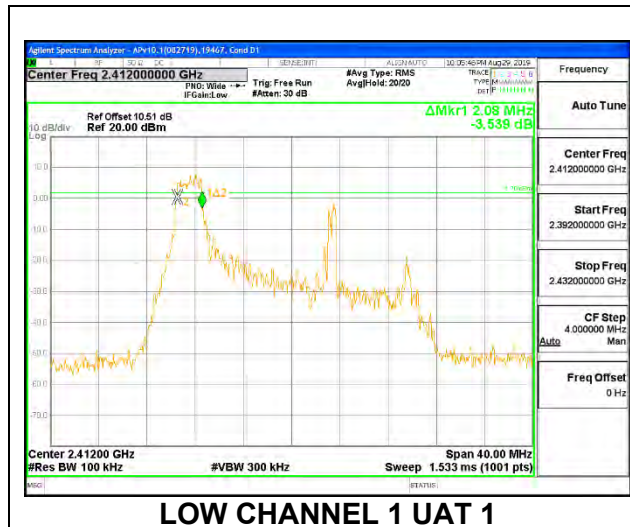


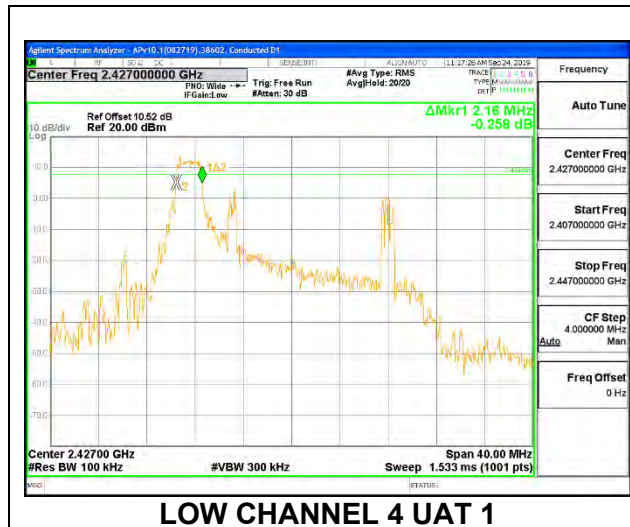


8.3.4. 802.11ax HE20 OFDMA MODE 2TX

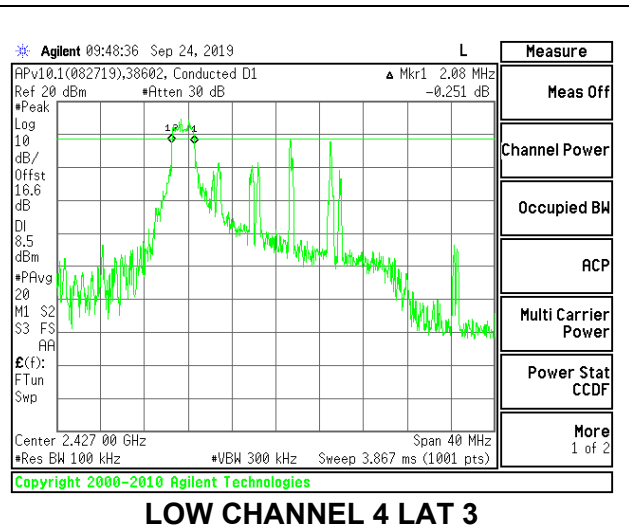
UAT 1 + LAT 3 2TX MODE: 26-Tones, RU Index 0

Channel	Frequency (MHz)	6dB Bandwidth UAT 1 (MHz)	6dB Bandwidth LAT 3 (MHz)	Minimum Limit (MHz)
Low 1	2412	2.080	2.080	0.5
Low 2	2417	2.120	2.040	0.5
Low 3	2422	2.080	2.200	0.5
Low 4	2427	2.160	2.080	0.5
Mid 6	2437	2.160	2.080	0.5
High 9	2452	2.160	2.120	0.5
High 10	2457	2.120	2.200	0.5
High 11	2462	2.040	2.160	0.5
High 12	2467	2.120	2.120	0.5
High 13	2472	2.160	2.160	0.5

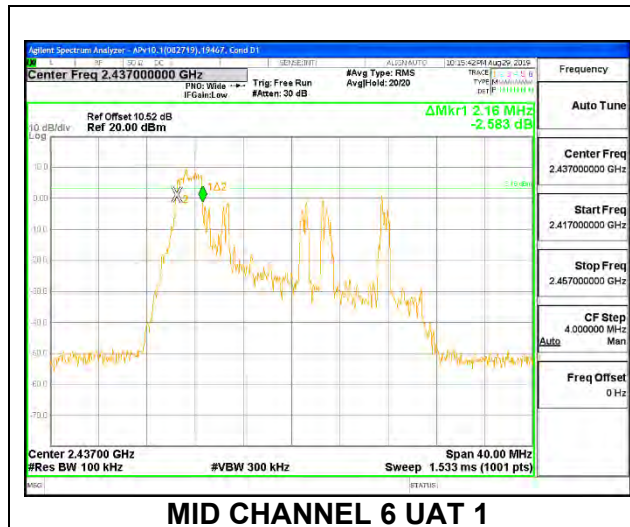




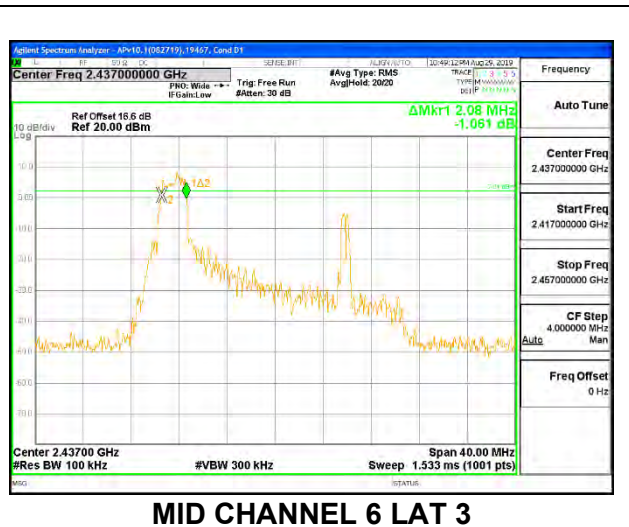
LOW CHANNEL 4 UAT 1



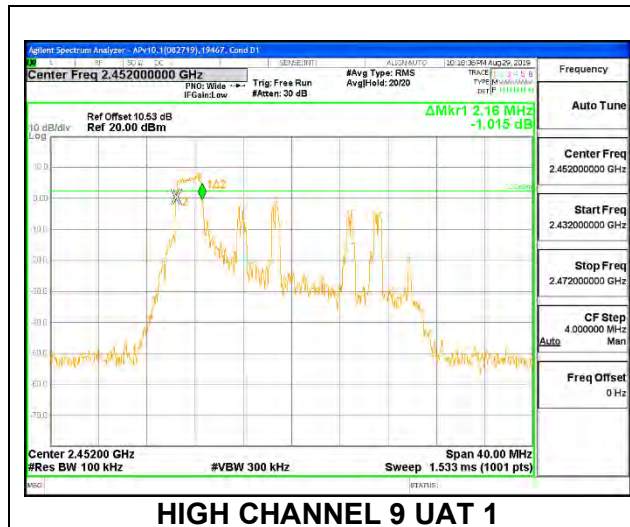
LOW CHANNEL 4 LAT 3



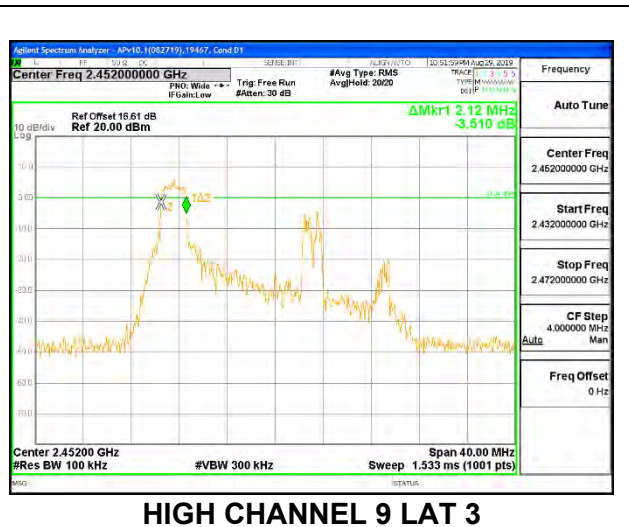
MID CHANNEL 6 UAT 1



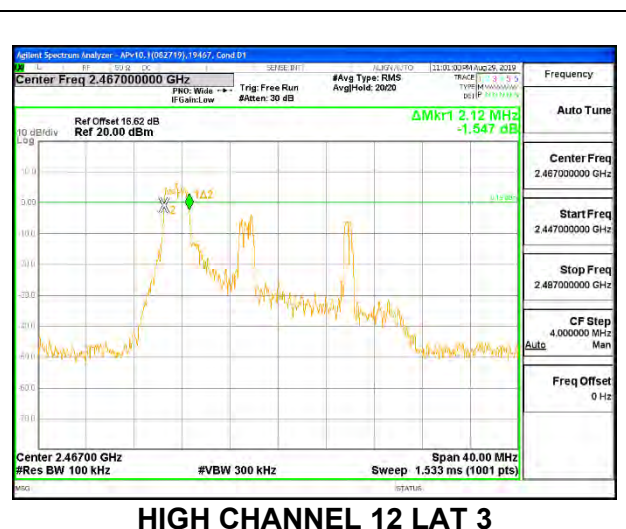
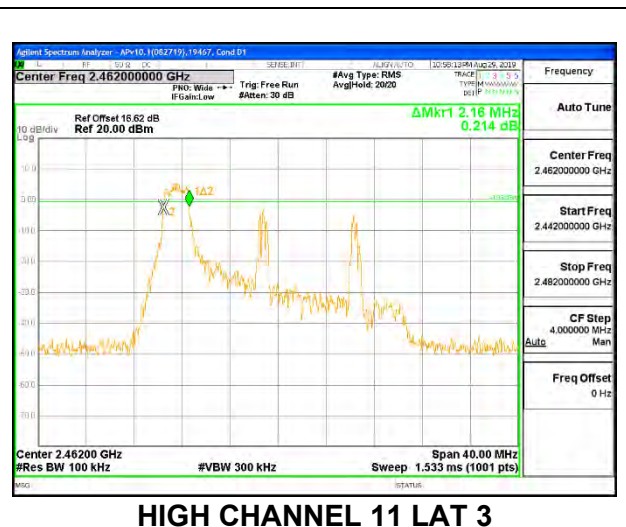
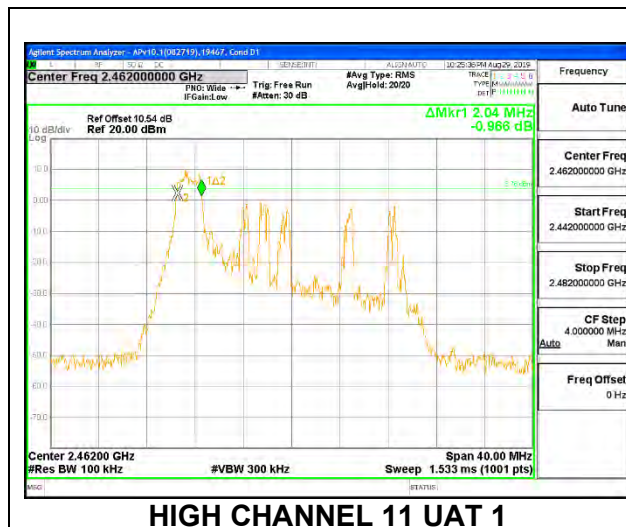
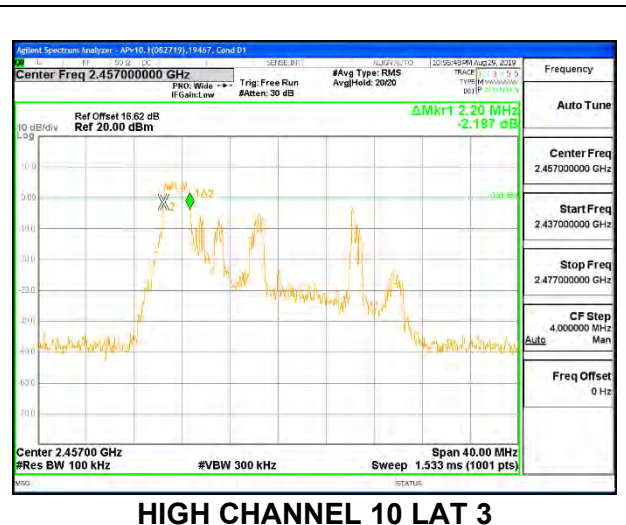
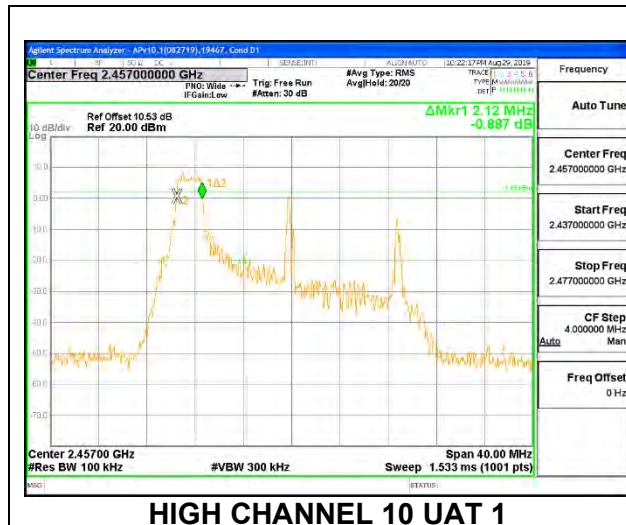
MID CHANNEL 6 LAT 3

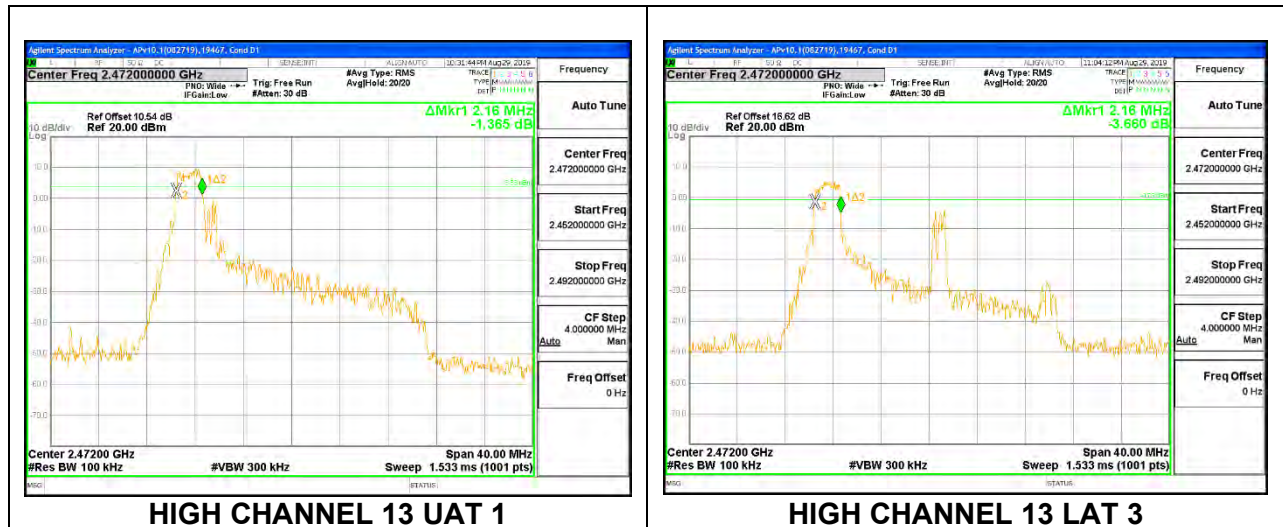


HIGH CHANNEL 9 UAT 1



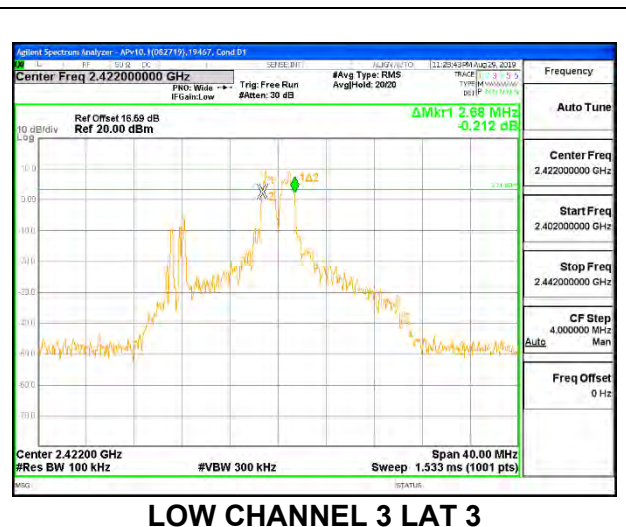
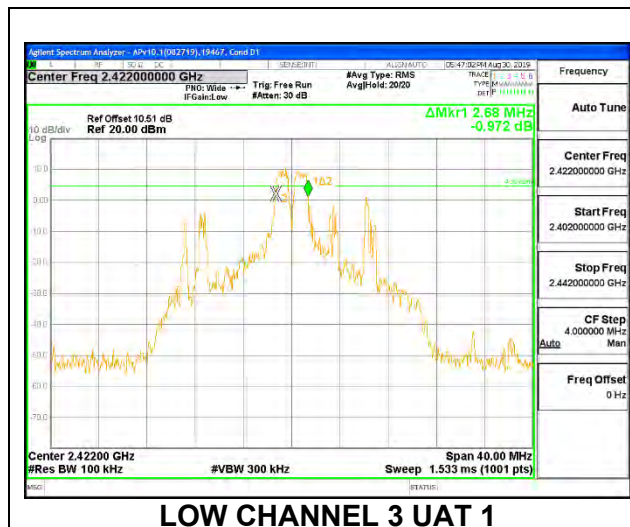
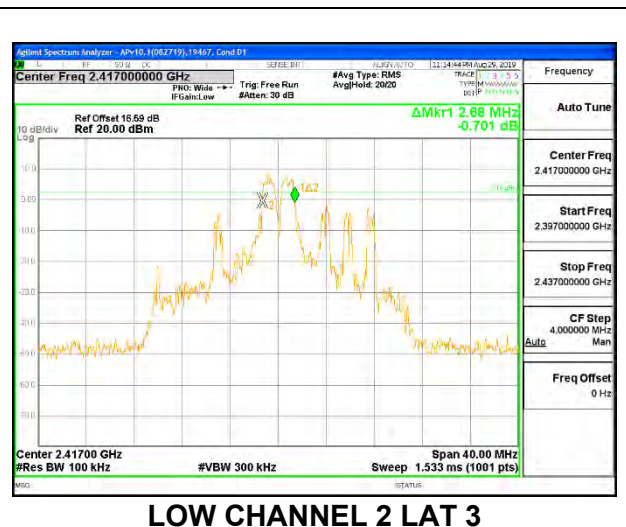
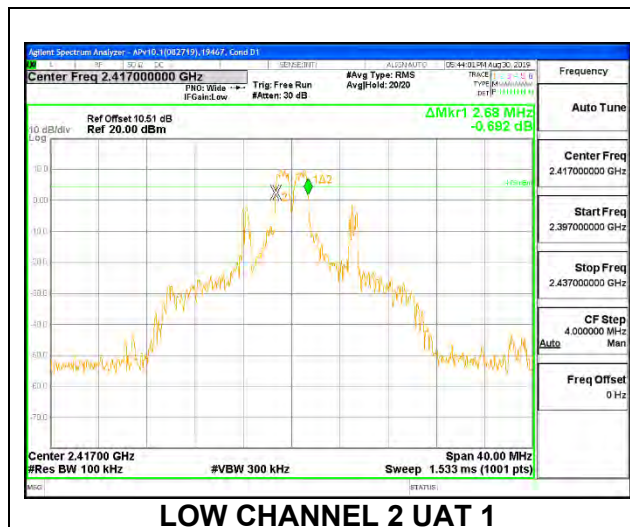
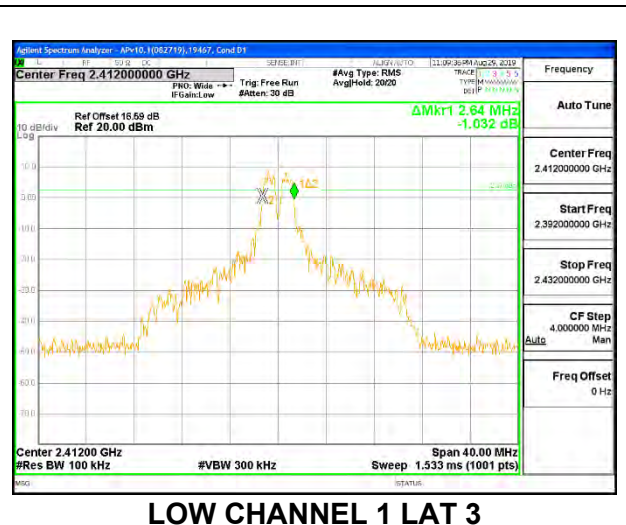
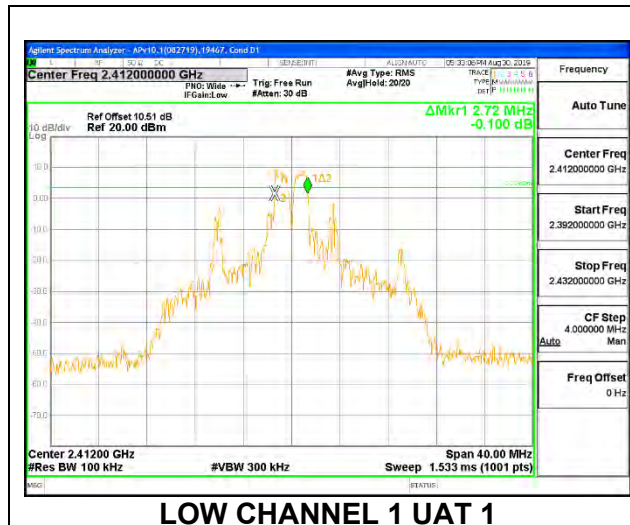
HIGH CHANNEL 9 LAT 3

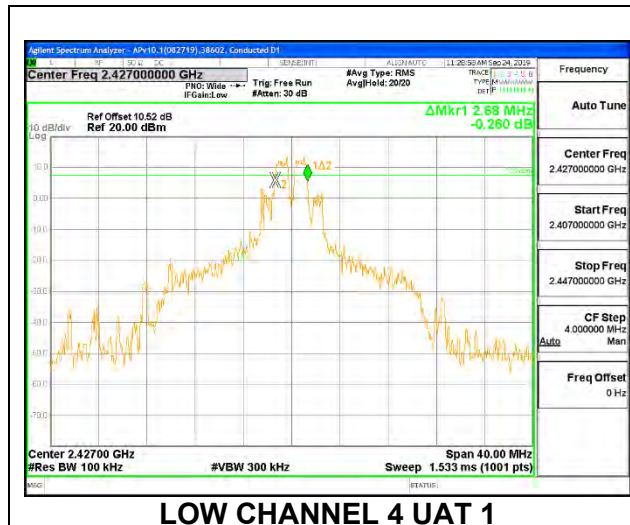




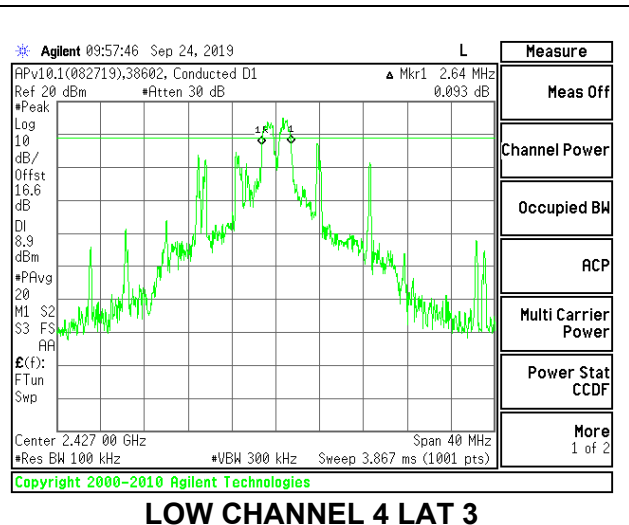
UAT 1 + LAT 3 2TX MODE: 26-Tones, RU Index 4

Channel	Frequency (MHz)	6dB Bandwidth UAT 1 (MHz)	6dB Bandwidth LAT 3 (MHz)	Minimum Limit (MHz)
Low 1	2412	2.720	2.640	0.5
Low 2	2417	2.680	2.680	0.5
Low 3	2422	2.680	2.680	0.5
Low 4	2427	2.680	2.640	0.5
Mid 6	2437	2.600	2.680	0.5
High 9	2452	2.640	2.680	0.5
High 10	2457	2.720	2.640	0.5
High 11	2462	2.720	2.680	0.5
High 12	2467	2.680	2.680	0.5
High 13	2472	2.600	2.600	0.5

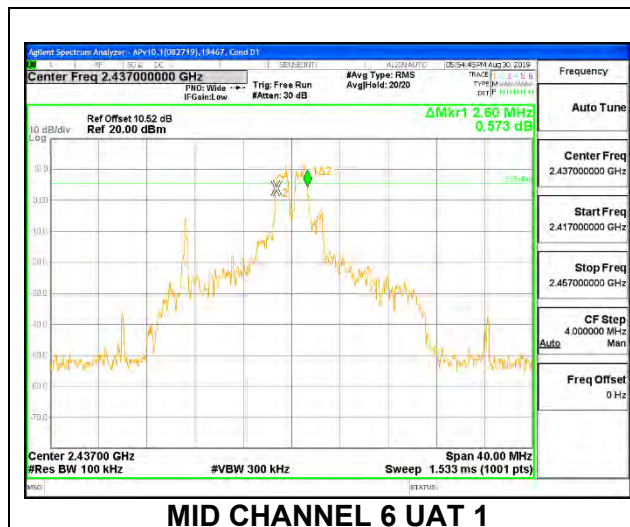




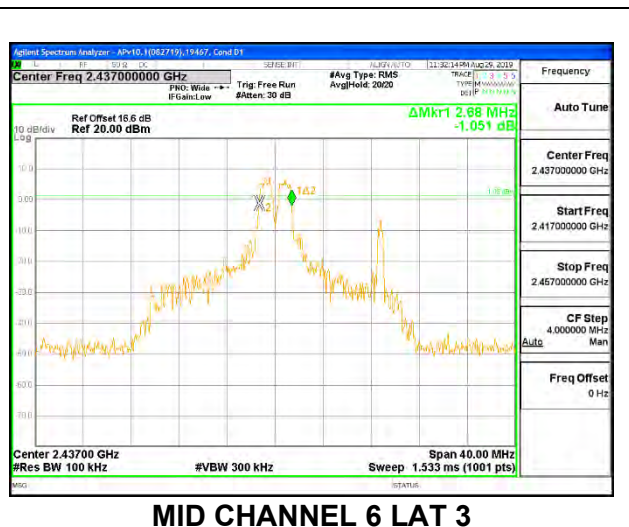
LOW CHANNEL 4 UAT 1



LOW CHANNEL 4 LAT 3



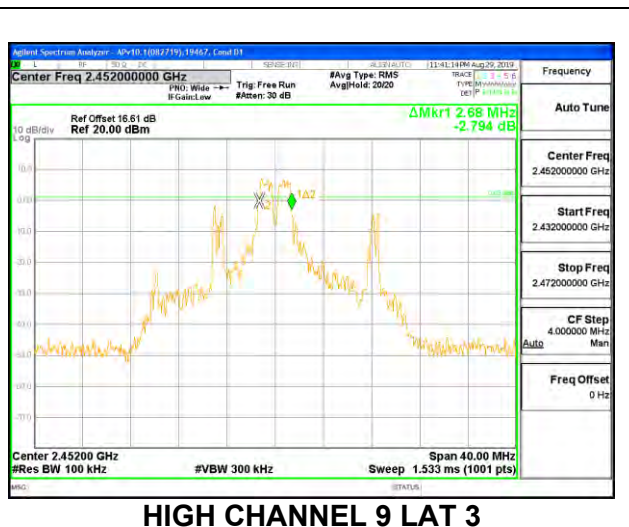
MID CHANNEL 6 UAT 1



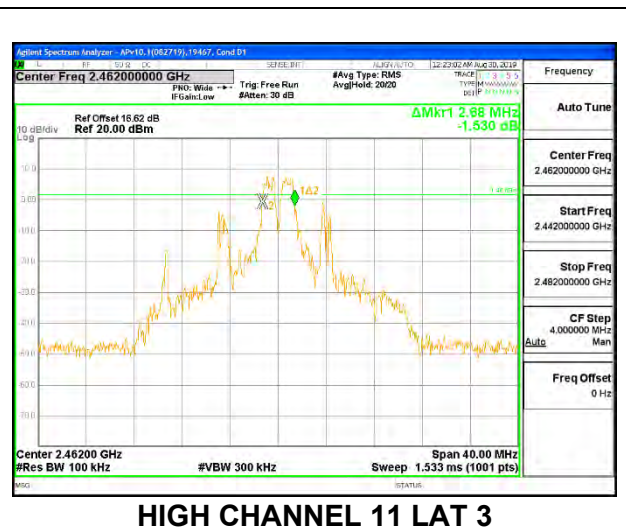
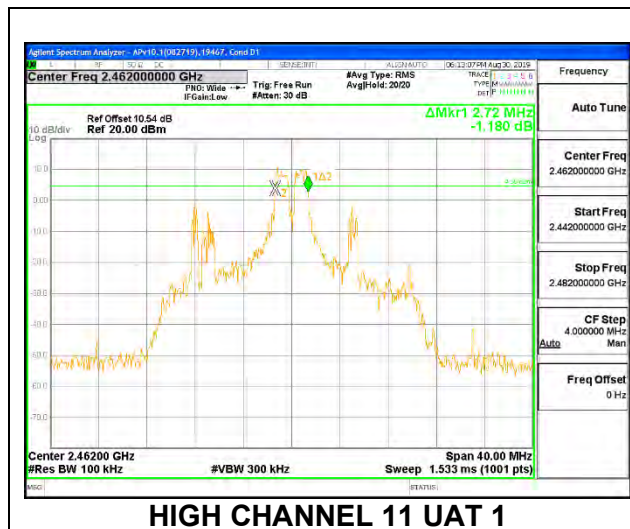
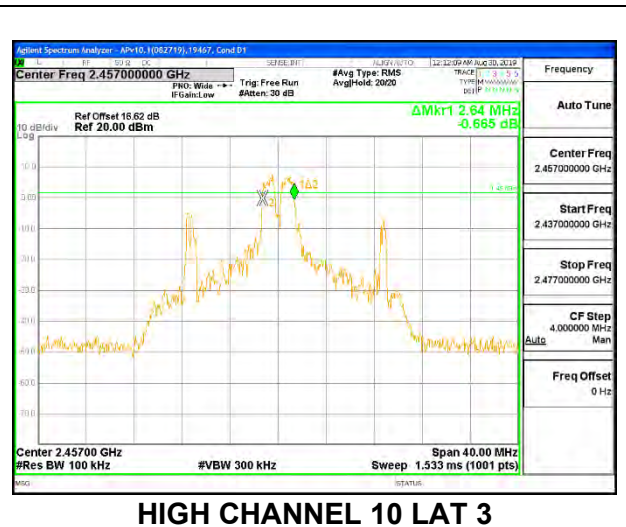
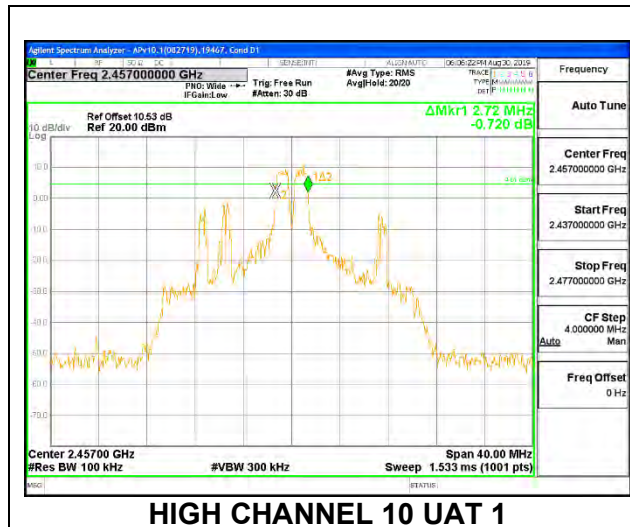
MID CHANNEL 6 LAT 3

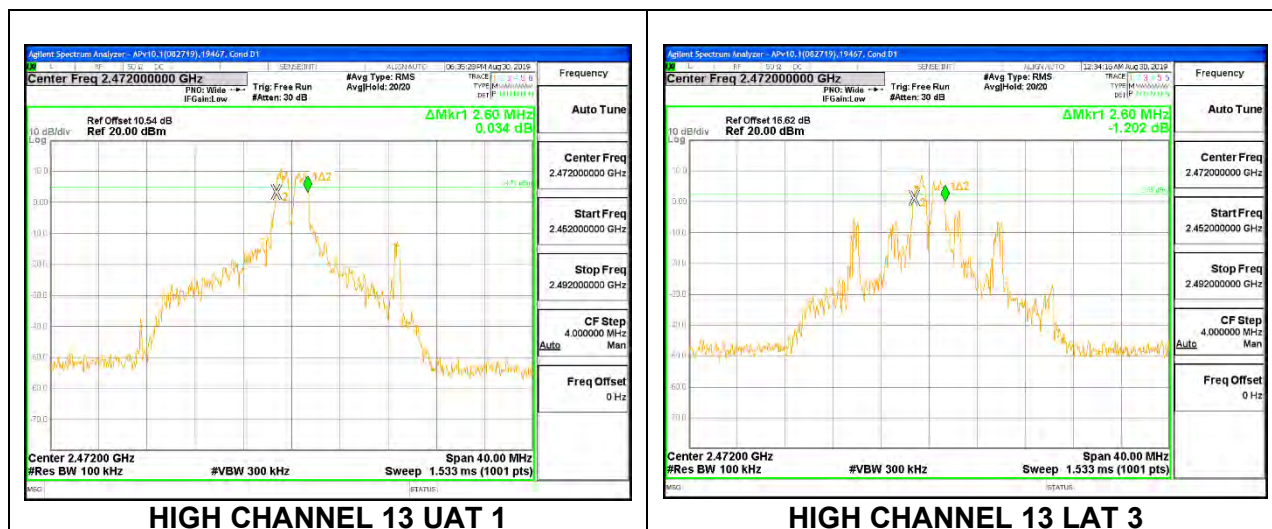


HIGH CHANNEL 9 UAT 1



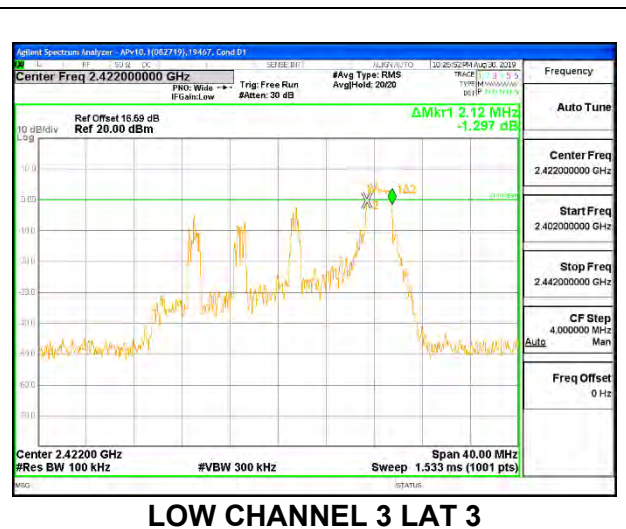
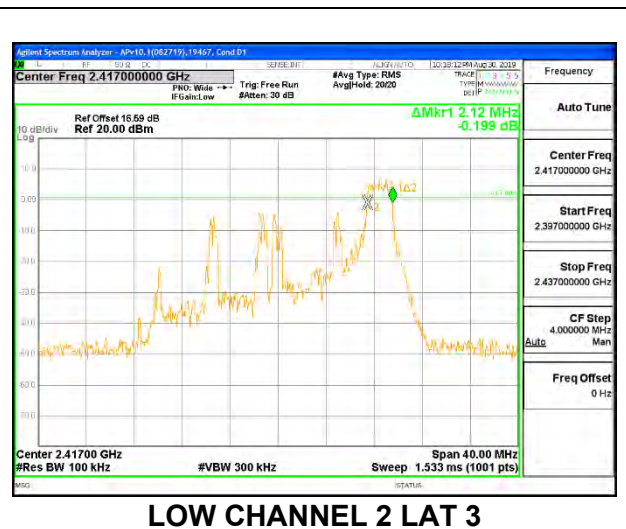
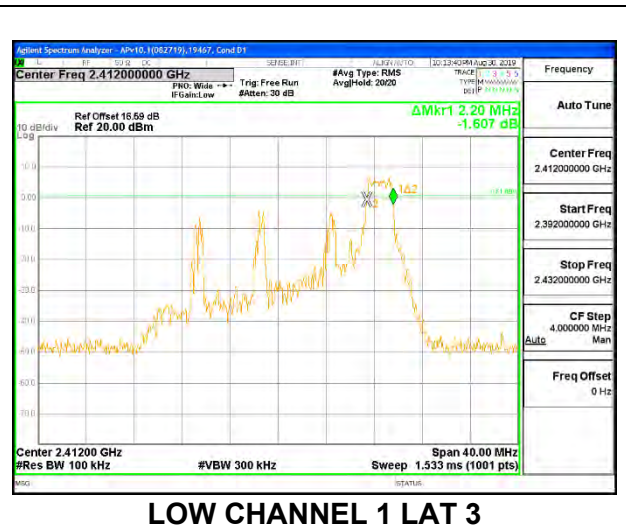
HIGH CHANNEL 9 LAT 3

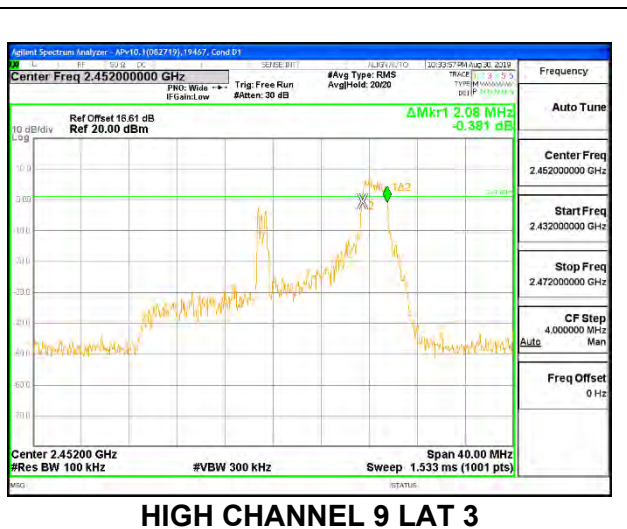
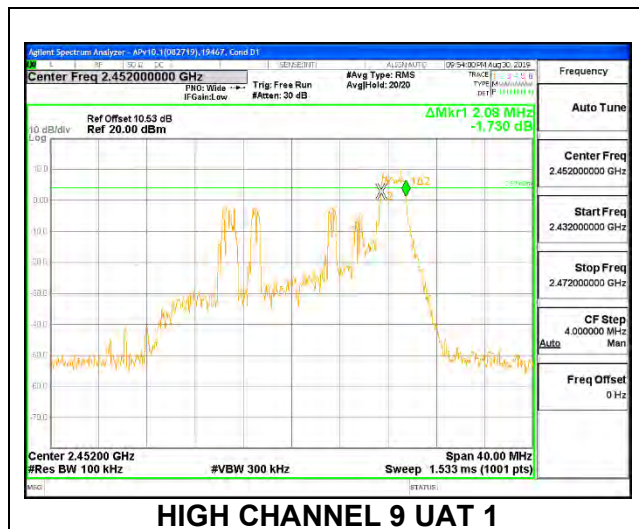
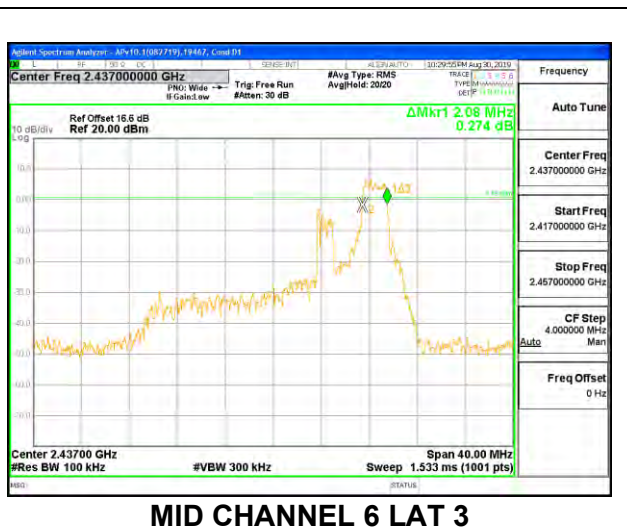
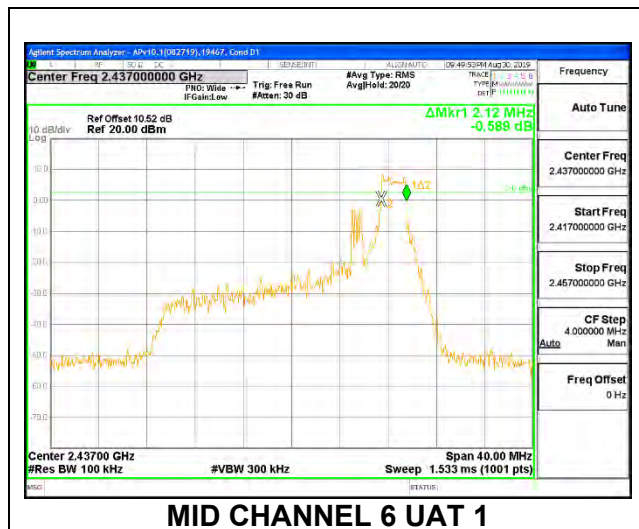
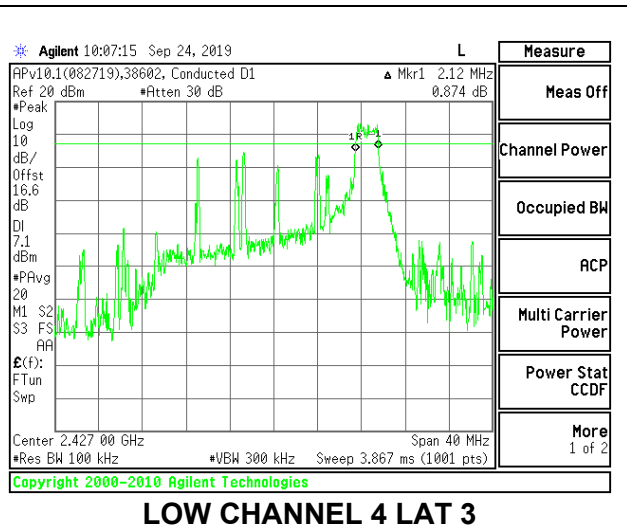
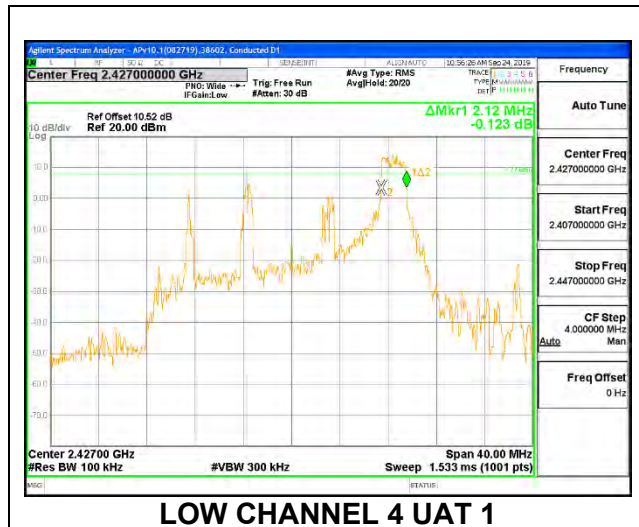


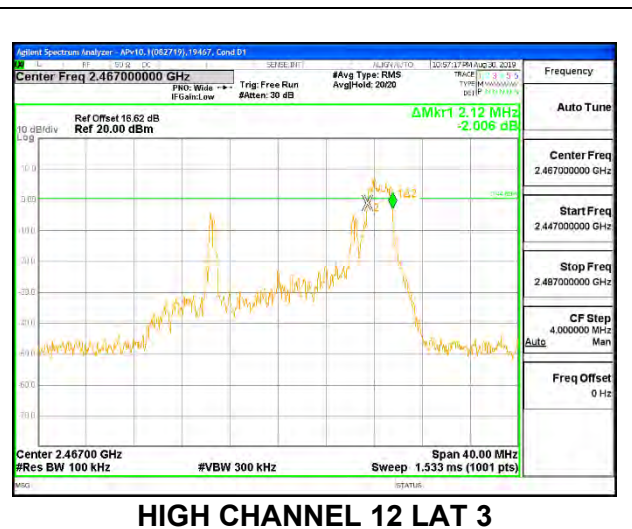
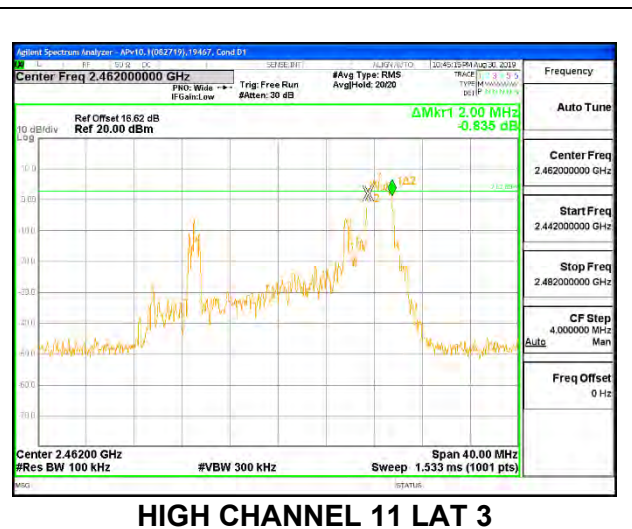
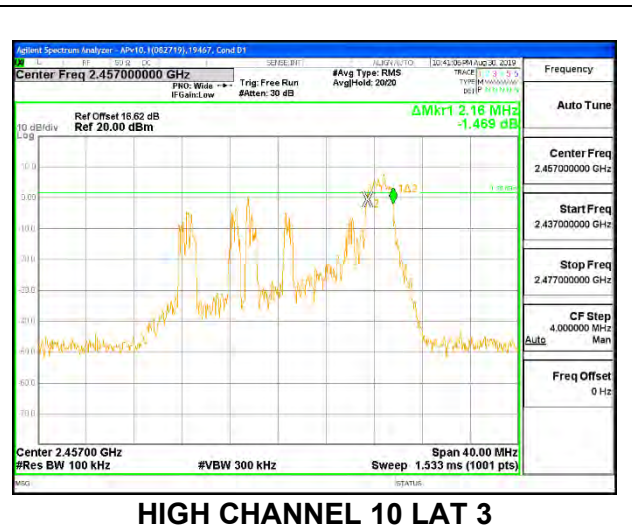
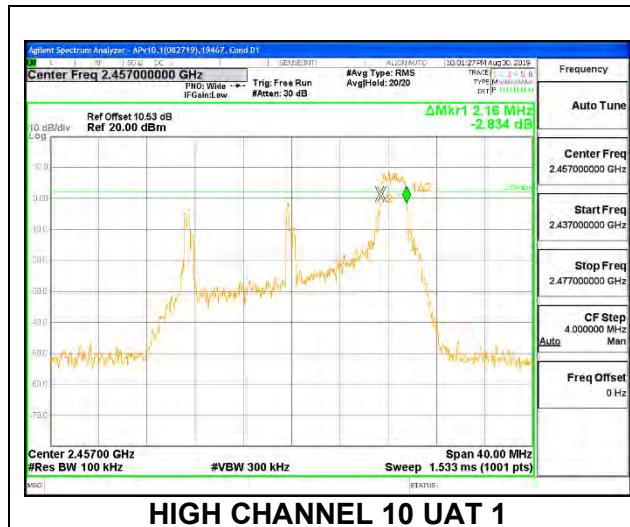


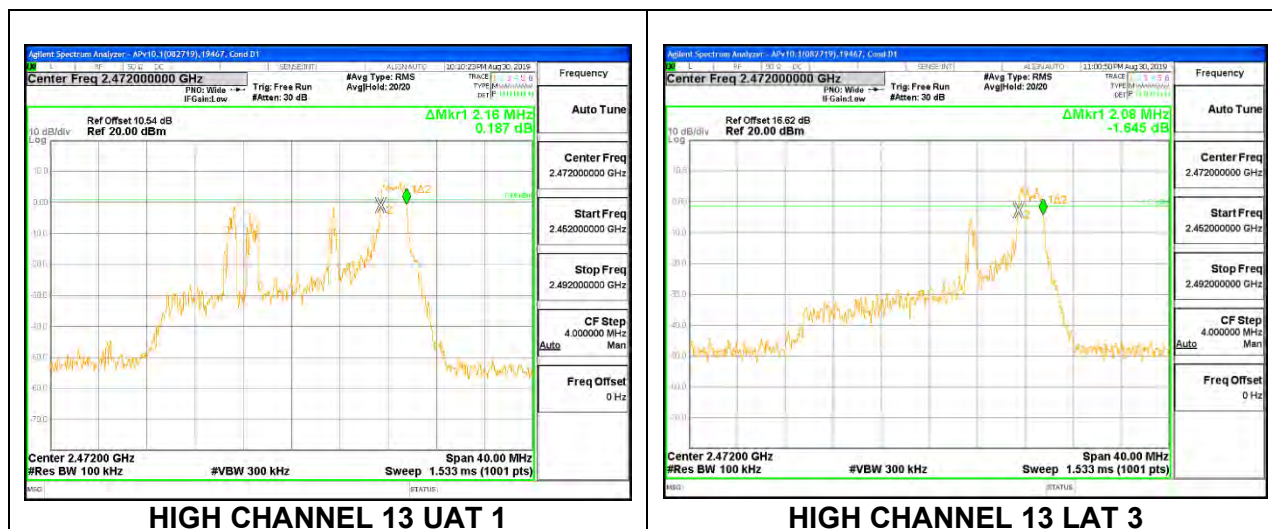
UAT 1 + LAT 3 2TX MODE: 26-Tones, RU Index 8

Channel	Frequency (MHz)	6dB Bandwidth UAT 1 (MHz)	6dB Bandwidth LAT 3 (MHz)	Minimum Limit (MHz)
Low 1	2412	2.080	2.200	0.5
Low 2	2417	2.120	2.120	0.5
Low 3	2422	2.160	2.120	0.5
Low 4	2427	2.120	2.120	0.5
Mid 6	2437	2.120	2.080	0.5
High 9	2452	2.080	2.080	0.5
High 10	2457	2.160	2.160	0.5
High 11	2462	2.160	2.000	0.5
High 12	2467	2.040	2.120	0.5
High 13	2472	2.160	2.080	0.5



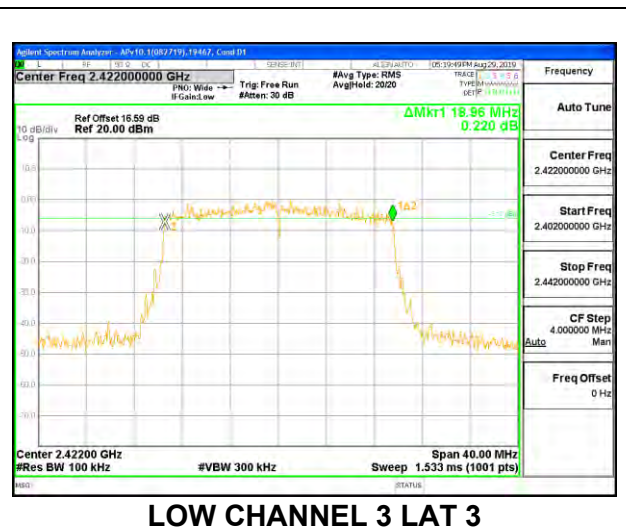
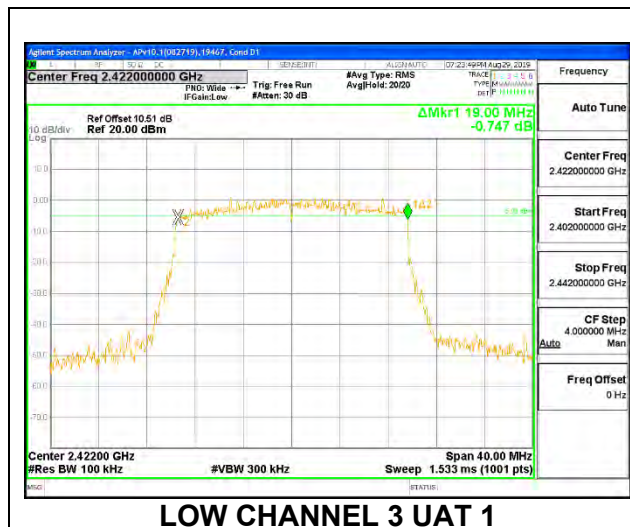
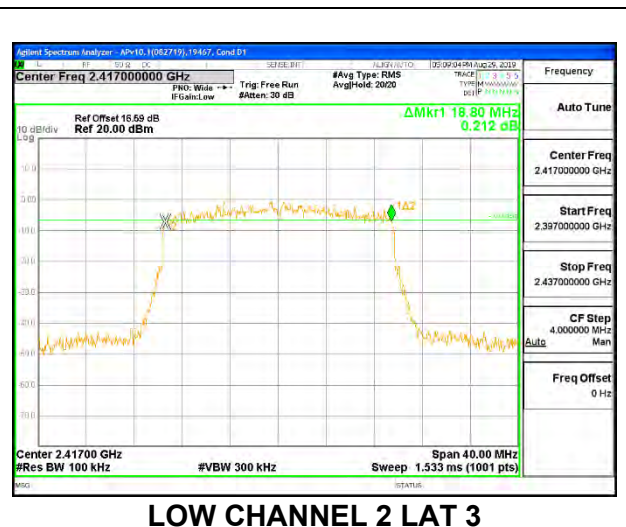
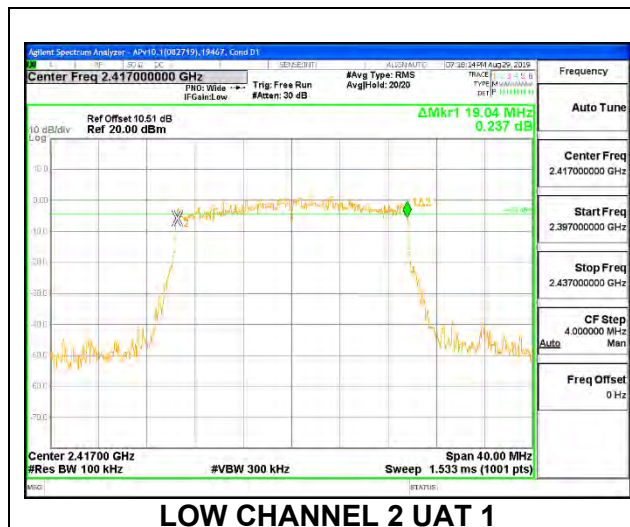
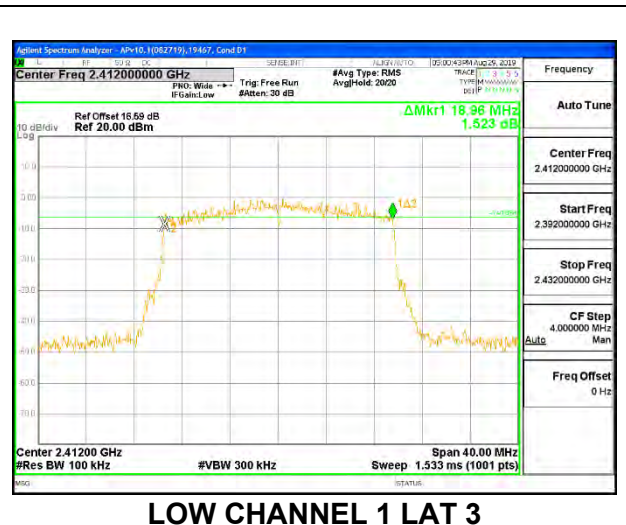
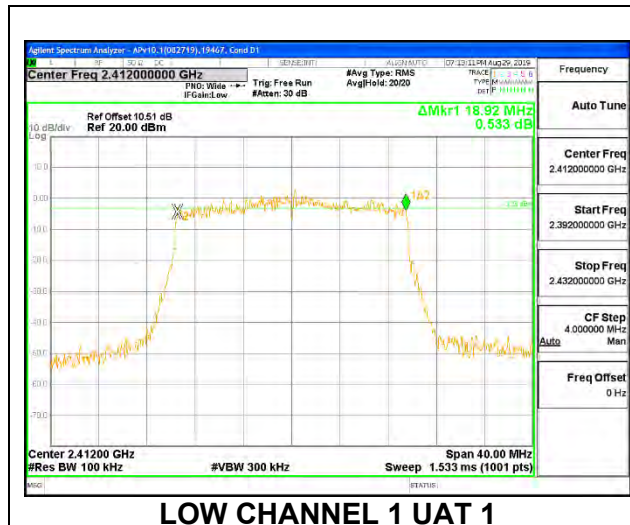


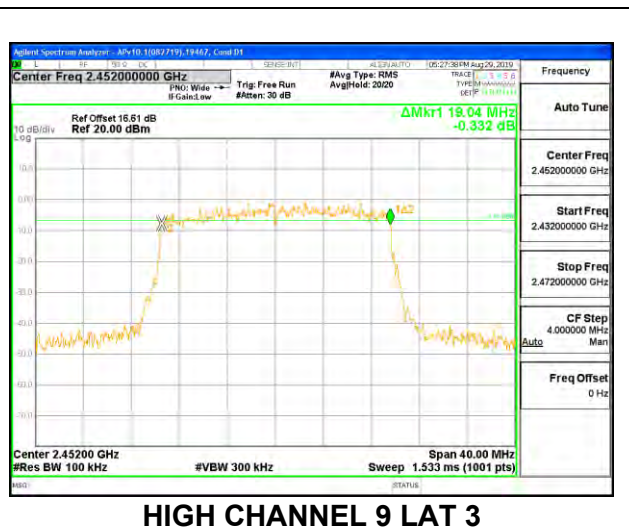
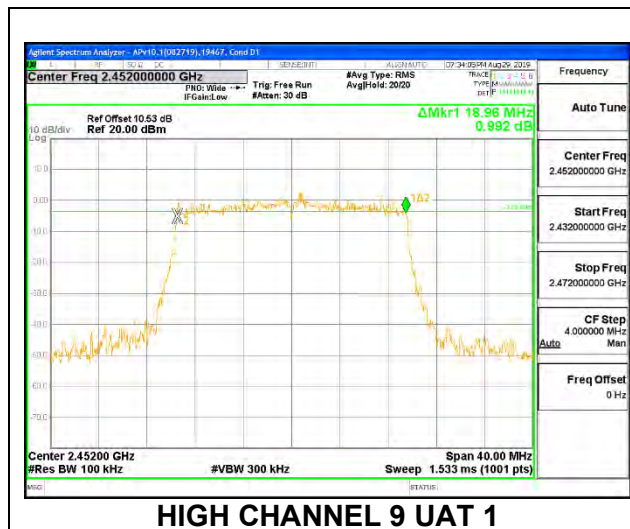
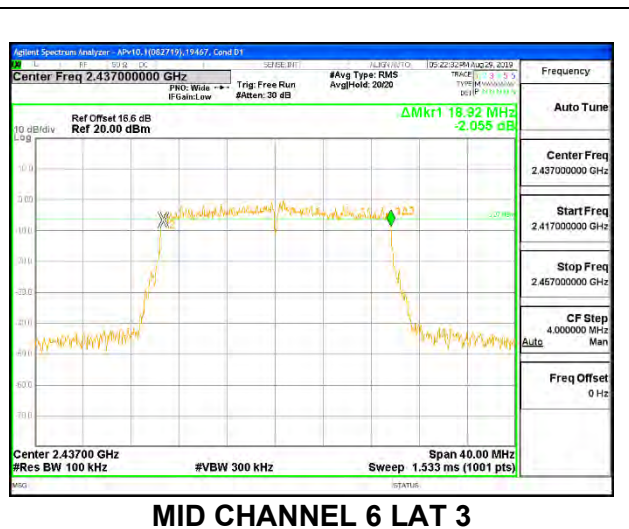
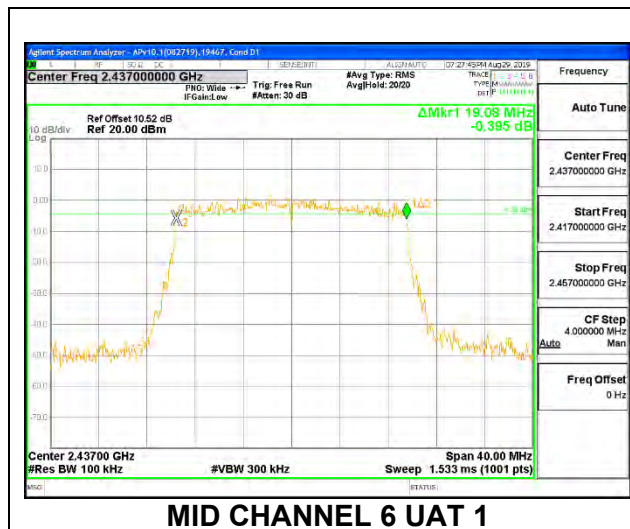
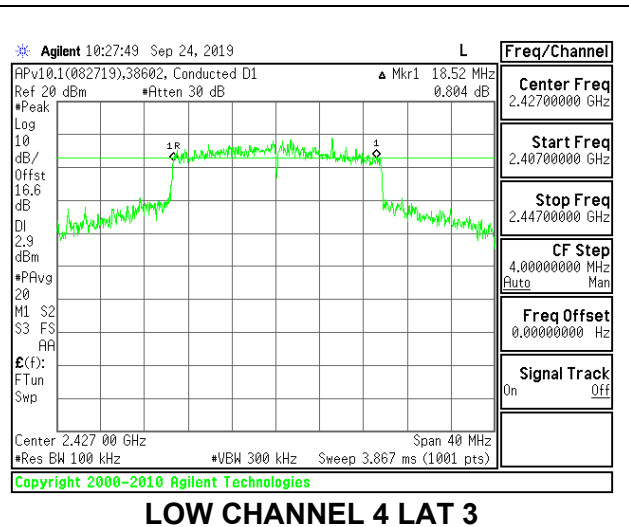
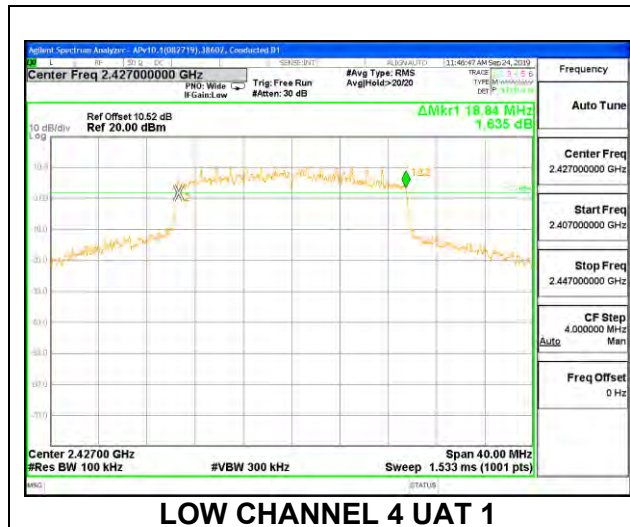


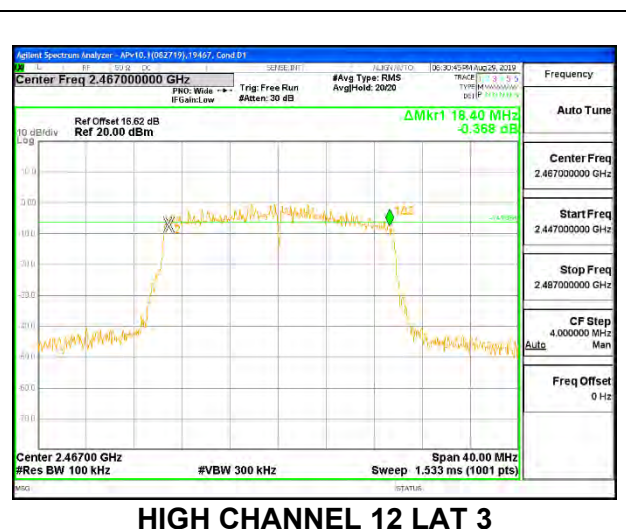
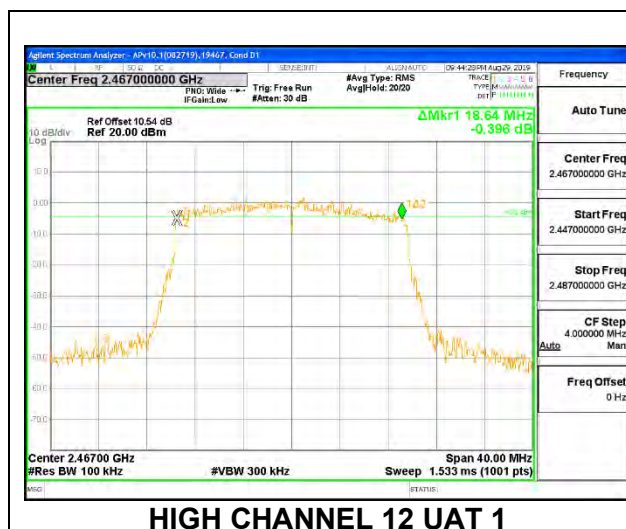
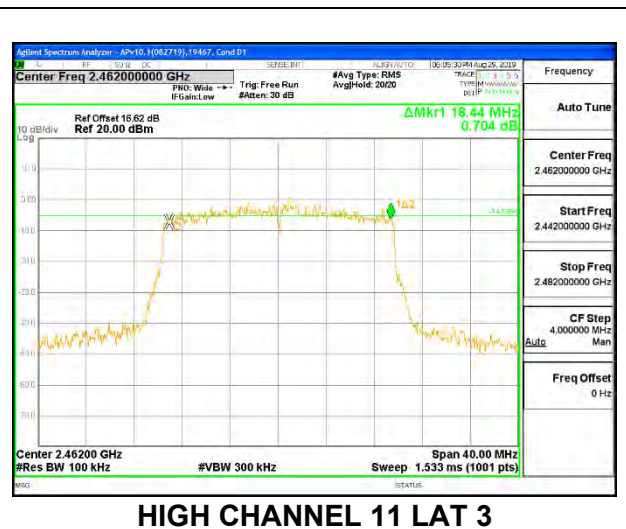
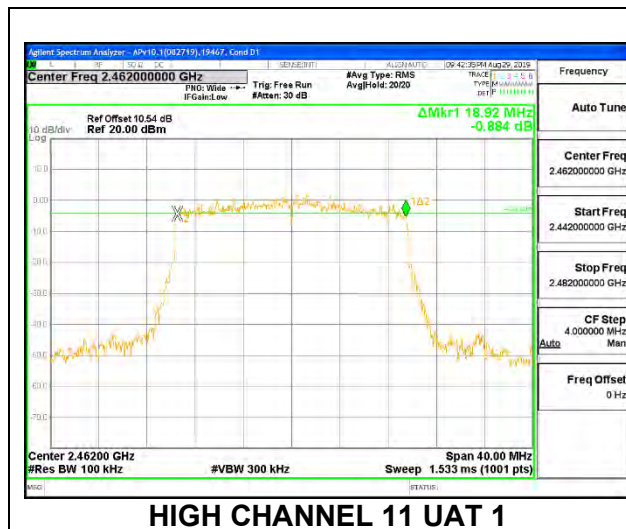
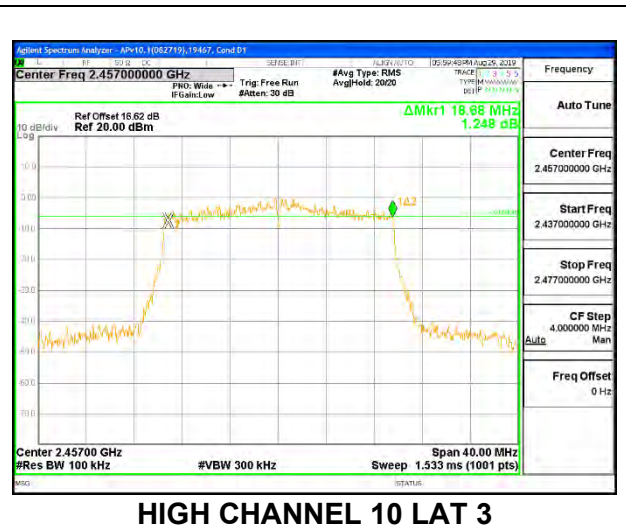
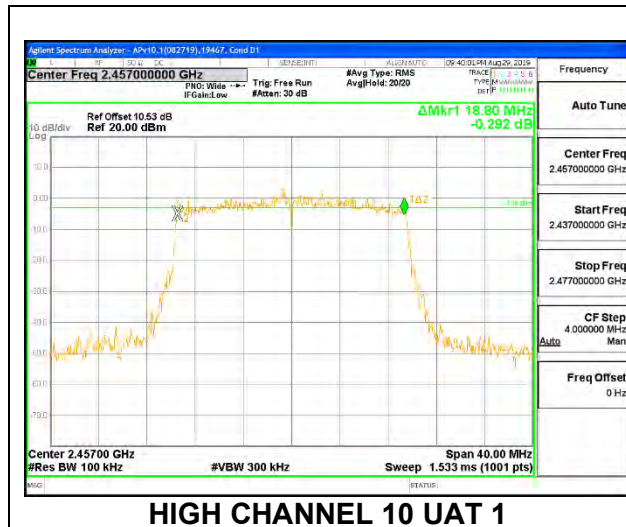


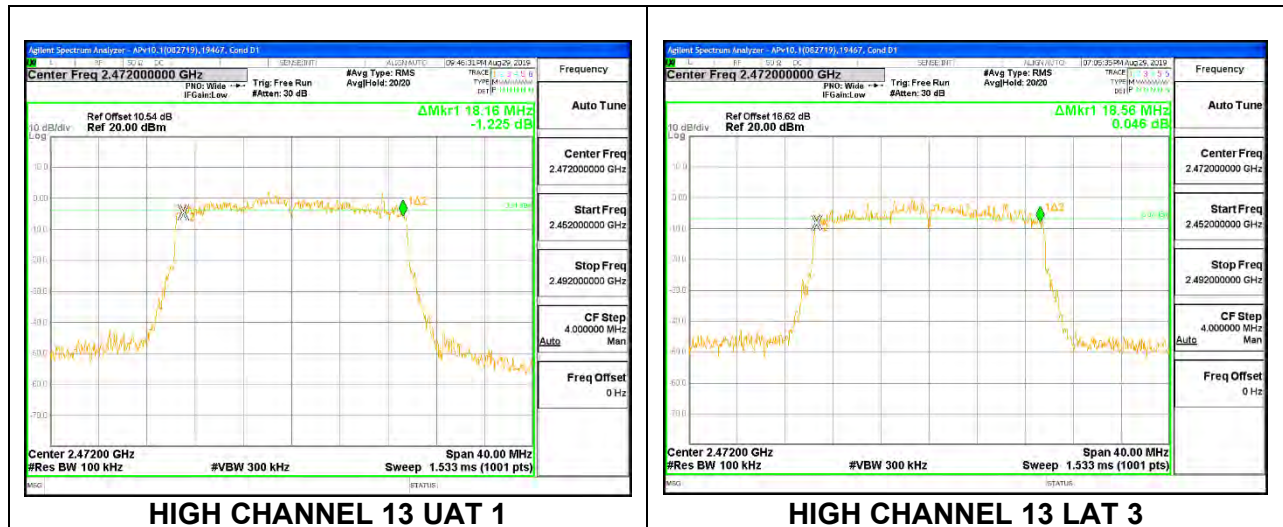
UAT 1 + LAT 3 2TX MODE: 242-Tones, RU Index 61

Channel	Frequency (MHz)	6dB Bandwidth UAT 1 (MHz)	6dB Bandwidth LAT 3 (MHz)	Minimum Limit (MHz)
Low 1	2412	18.920	18.960	0.5
Low 2	2417	19.040	18.800	0.5
Low 3	2422	19.000	18.960	0.5
Low 4	2427	18.840	18.520	0.5
Mid 6	2437	19.080	18.920	0.5
High 9	2452	18.960	19.040	0.5
High 10	2457	18.800	18.680	0.5
High 11	2462	18.920	18.440	0.5
High 12	2467	18.640	18.400	0.5
High 13	2472	18.160	18.560	0.5









8.4. OUTPUT POWER

LIMITS

FCC §15.247 (b) (3)

RSS-247 5.4 (d)

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 13.3 dB (including 10 dB pad and 1.0 dB cable + 2.3 dB flex) was entered as an offset in the power meter to allow for a average reading of power.

DIRECTIONAL ANTENNA GAIN

For 1 TX:

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

For 2 TX:

Tx chains are uncorrelated for power and correlated for PSD due to the device supporting CDD in all MIMO modes. The directional gains are as follows:

Band (GHz)	UAT 1 Antenna Gain (dBi)	LAT 3 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)	Correlated Chains Directional Gain (dBi)
2.4	-2.2	-0.4	-1.21	1.76

ID:	44366	Date:	1/30/2020
-----	-------	-------	-----------

RESULTS

8.4.1. 802.11b MODE

1TX UAT 1

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	-2.2	30.00	30	36	30.00
Low 2	2417	-2.2	30.00	30	36	30.00
Mid 6	2437	-2.2	30.00	30	36	30.00
High 7	2442	-2.2	30.00	30	36	30.00
High 8	2447	-2.2	30.00	30	36	30.00
High 9	2452	-2.2	30.00	30	36	30.00
High 10	2457	-2.2	30.00	30	36	30.00
High 11	2462	-2.2	30.00	30	36	30.00
High 12	2467	-2.2	30.00	30	36	30.00
High 13	2472	-2.2	30.00	30	36	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power
--------------------	------	--

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	18.67	18.67	30.00	-11.33
Low 2	2417	18.59	18.59	30.00	-11.41
Mid 6	2437	18.74	18.74	30.00	-11.26
High 7	2442	18.62	18.62	30.00	-11.38
High 8	2447	18.71	18.71	30.00	-11.29
High 9	2452	18.58	18.58	30.00	-11.42
High 10	2457	18.61	18.61	30.00	-11.39
High 11	2462	18.63	18.63	30.00	-11.37
High 12	2467	16.71	16.71	30.00	-13.29
High 13	2472	15.19	15.19	30.00	-14.81

1TX LAT 3

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	-0.4	30.00	30	36	30.00
Low 2	2417	-0.4	30.00	30	36	30.00
Mid 6	2437	-0.4	30.00	30	36	30.00
High 7	2442	-0.4	30.00	30	36	30.00
High 8	2447	-0.4	30.00	30	36	30.00
High 9	2452	-0.4	30.00	30	36	30.00
High 10	2457	-0.4	30.00	30	36	30.00
High 11	2462	-0.4	30.00	30	36	30.00
High 12	2467	-0.4	30.00	30	36	30.00
High 13	2472	-0.4	30.00	30	36	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power
---------------------------	------	---

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	18.65	18.65	30.00	-11.35
Low 2	2417	19.62	19.62	30.00	-10.38
Mid 6	2437	21.17	21.17	30.00	-8.83
High 7	2442	19.65	19.65	30.00	-10.35
High 8	2447	19.19	19.19	30.00	-10.81
High 9	2452	19.20	19.20	30.00	-10.80
High 10	2457	18.62	18.62	30.00	-11.38
High 11	2462	18.61	18.61	30.00	-11.39
High 12	2467	16.69	16.69	30.00	-13.31
High 13	2472	15.23	15.23	30.00	-14.77

8.4.2. 802.11n HT20 MODE

1TX UAT 1

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	-2.2	30.00	30	36	30.00
Low 2	2417	-2.2	30.00	30	36	30.00
Low 3	2422	-2.2	30.00	30	36	30.00
Mid 6	2437	-2.2	30.00	30	36	30.00
High 9	2452	-2.2	30.00	30	36	30.00
High 10	2457	-2.2	30.00	30	36	30.00
High 11	2462	-2.2	30.00	30	36	30.00
High 12	2467	-2.2	30.00	30	36	30.00
High 13	2472	-2.2	30.00	30	36	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power
--------------------	------	--

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	16.22	16.22	30.00	-13.78
Low 2	2417	18.59	18.59	30.00	-11.41
Low 3	2422	18.71	18.71	30.00	-11.29
Mid 6	2437	18.69	18.69	30.00	-11.31
High 9	2452	18.70	18.70	30.00	-11.30
High 10	2457	18.64	18.64	30.00	-11.36
High 11	2462	16.16	16.16	30.00	-13.84
High 12	2467	13.67	13.67	30.00	-16.33
High 13	2472	4.20	4.20	30.00	-25.80

1TX LAT 3

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	-0.4	30.00	30	36	30.00
Low 2	2417	-0.4	30.00	30	36	30.00
Low 3	2422	-0.4	30.00	30	36	30.00
Mid 6	2437	-0.4	30.00	30	36	30.00
High 9	2452	-0.4	30.00	30	36	30.00
High 10	2457	-0.4	30.00	30	36	30.00
High 11	2462	-0.4	30.00	30	36	30.00
High 12	2467	-0.4	30.00	30	36	30.00
High 13	2472	-0.4	30.00	30	36	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power
---------------------------	------	---

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	16.16	16.16	30.00	-13.84
Low 2	2417	18.56	18.56	30.00	-11.44
Low 3	2422	20.15	20.15	30.00	-9.85
Mid 6	2437	21.23	21.23	30.00	-8.77
High 9	2452	20.17	20.17	30.00	-9.83
High 10	2457	18.65	18.65	30.00	-11.35
High 11	2462	16.17	16.17	30.00	-13.83
High 12	2467	13.69	13.69	30.00	-16.31
High 13	2472	4.14	4.14	30.00	-25.86

2TX UAT 1 + LAT 3 CDD MODE

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	-1.21	30.00	36	30.00
Low 2	2417	-1.21	30.00	36	30.00
Low 3	2422	-1.21	30.00	36	30.00
Low 4	2427	-1.21	30.00	36	30.00
Mid 6	2437	-1.21	30.00	36	30.00
High 8	2447	-1.21	30.00	36	30.00
High 9	2452	-1.21	30.00	36	30.00
High 10	2457	-1.21	30.00	36	30.00
High 11	2462	-1.21	30.00	36	30.00
High 12	2467	-1.21	30.00	36	30.00
High 13	2472	-1.21	30.00	36	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power
---------------------------	------	---

Results

Channel	Frequency (MHz)	UAT 1 Meas Power (dBm)	LAT 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	15.21	15.17	18.20	30.00	-11.80
Low 2	2417	17.67	17.70	20.70	30.00	-9.30
Low 3	2422	18.69	19.14	21.93	30.00	-8.07
Low 4	2427	18.65	20.15	22.47	30.00	-7.53
Mid 6	2437	18.71	21.16	23.12	30.00	-6.88
High 8	2447	18.60	20.06	22.40	30.00	-7.60
High 9	2452	18.66	19.16	21.93	30.00	-8.07
High 10	2457	17.52	17.52	20.53	30.00	-9.47
High 11	2462	15.04	15.11	18.09	30.00	-11.91
High 12	2467	12.53	12.61	15.58	30.00	-14.42
High 13	2472	4.22	4.18	7.21	30.00	-22.79

8.4.3. 802.11ax HE20 MODE

1TX UAT 1: 26-Tones, RU Index 0

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	-2.2	30.00	30	36	30.00
Low 2	2417	-2.2	30.00	30	36	30.00
Low 3	2422	-2.2	30.00	30	36	30.00
Mid 6	2437	-2.2	30.00	30	36	30.00
High 9	2452	-2.2	30.00	30	36	30.00
High 10	2457	-2.2	30.00	30	36	30.00
High 11	2462	-2.2	30.00	30	36	30.00
High 12	2467	-2.2	30.00	30	36	30.00
High 13	2472	-2.2	30.00	30	36	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power
--------------------	------	--

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	14.73	14.73	30.00	-15.27
Low 2	2417	17.16	17.16	30.00	-12.84
Low 3	2422	18.71	18.71	30.00	-11.29
Mid 6	2437	18.65	18.65	30.00	-11.35
High 9	2452	18.75	18.75	30.00	-11.25
High 10	2457	17.09	17.09	30.00	-12.91
High 11	2462	14.65	14.65	30.00	-15.35
High 12	2467	12.24	12.24	30.00	-17.76
High 13	2472	-0.43	-0.43	30.00	-30.43

1TX UAT 1: 26-Tones, RU Index 4

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	-2.2	30.00	30	36	30.00
Low 2	2417	-2.2	30.00	30	36	30.00
Low 3	2422	-2.2	30.00	30	36	30.00
Mid 6	2437	-2.2	30.00	30	36	30.00
High 9	2452	-2.2	30.00	30	36	30.00
High 10	2457	-2.2	30.00	30	36	30.00
High 11	2462	-2.2	30.00	30	36	30.00
High 12	2467	-2.2	30.00	30	36	30.00
High 13	2472	-2.2	30.00	30	36	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power
---------------------------	------	---

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	14.64	14.64	30.00	-15.36
Low 2	2417	17.21	17.21	30.00	-12.79
Low 3	2422	18.56	18.56	30.00	-11.44
Mid 6	2437	18.58	18.58	30.00	-11.42
High 9	2452	18.63	18.63	30.00	-11.37
High 10	2457	17.22	17.22	30.00	-12.78
High 11	2462	14.62	14.62	30.00	-15.38
High 12	2467	12.22	12.22	30.00	-17.78
High 13	2472	-0.38	-0.38	30.00	-30.38

1TX UAT 1: 26-Tones, RU Index 8

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	-2.2	30.00	30	36	30.00
Low 2	2417	-2.2	30.00	30	36	30.00
Low 3	2422	-2.2	30.00	30	36	30.00
Mid 6	2437	-2.2	30.00	30	36	30.00
High 9	2452	-2.2	30.00	30	36	30.00
High 10	2457	-2.2	30.00	30	36	30.00
High 11	2462	-2.2	30.00	30	36	30.00
High 12	2467	-2.2	30.00	30	36	30.00
High 13	2472	-2.2	30.00	30	36	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power
---------------------------	------	---

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	14.74	14.74	30.00	-15.26
Low 2	2417	17.22	17.22	30.00	-12.78
Low 3	2422	18.68	18.68	30.00	-11.32
Mid 6	2437	18.71	18.71	30.00	-11.29
High 9	2452	18.74	18.74	30.00	-11.26
High 10	2457	17.22	17.22	30.00	-12.78
High 11	2462	14.69	14.69	30.00	-15.31
High 12	2467	12.22	12.22	30.00	-17.78
High 13	2472	-0.34	-0.34	30.00	-30.34

1TX UAT 1: 242-Tones, RU Index 61

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	-2.2	30.00	30	36	30.00
Low 2	2417	-2.2	30.00	30	36	30.00
Low 3	2422	-2.2	30.00	30	36	30.00
Mid 6	2437	-2.2	30.00	30	36	30.00
High 9	2452	-2.2	30.00	30	36	30.00
High 10	2457	-2.2	30.00	30	36	30.00
High 11	2462	-2.2	30.00	30	36	30.00
High 12	2467	-2.2	30.00	30	36	30.00
High 13	2472	-2.2	30.00	30	36	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power
---------------------------	------	---

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	14.72	14.72	30.00	-15.28
Low 2	2417	17.21	17.21	30.00	-12.79
Low 3	2422	18.72	18.72	30.00	-11.28
Mid 6	2437	18.69	18.69	30.00	-11.31
High 9	2452	18.58	18.58	30.00	-11.42
High 10	2457	17.19	17.19	30.00	-12.81
High 11	2462	14.72	14.72	30.00	-15.28
High 12	2467	12.16	12.16	30.00	-17.84
High 13	2472	2.69	2.69	30.00	-27.31

1TX LAT 3: 26-Tones, RU Index 0

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	-0.4	30.00	30	36	30.00
Low 2	2417	-0.4	30.00	30	36	30.00
Low 3	2422	-0.4	30.00	30	36	30.00
Mid 6	2437	-0.4	30.00	30	36	30.00
High 9	2452	-0.4	30.00	30	36	30.00
High 10	2457	-0.4	30.00	30	36	30.00
High 11	2462	-0.4	30.00	30	36	30.00
High 12	2467	-0.4	30.00	30	36	30.00
High 13	2472	-0.4	30.00	30	36	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power
---------------------------	------	---

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	14.70	14.70	30.00	-15.30
Low 2	2417	17.13	17.13	30.00	-12.87
Low 3	2422	18.67	18.67	30.00	-11.33
Mid 6	2437	21.13	21.13	30.00	-8.87
High 9	2452	18.67	18.67	30.00	-11.33
High 10	2457	17.13	17.13	30.00	-12.87
High 11	2462	14.61	14.61	30.00	-15.39
High 12	2467	12.17	12.17	30.00	-17.83
High 13	2472	-0.35	-0.35	30.00	-30.35

1TX LAT 3: 26-Tones, RU Index 4

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	-0.4	30.00	30	36	30.00
Low 2	2417	-0.4	30.00	30	36	30.00
Low 3	2422	-0.4	30.00	30	36	30.00
Mid 6	2437	-0.4	30.00	30	36	30.00
High 9	2452	-0.4	30.00	30	36	30.00
High 10	2457	-0.4	30.00	30	36	30.00
High 11	2462	-0.4	30.00	30	36	30.00
High 12	2467	-0.4	30.00	30	36	30.00
High 13	2472	-0.4	30.00	30	36	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power
---------------------------	------	---

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	14.55	14.55	30.00	-15.45
Low 2	2417	17.15	17.15	30.00	-12.85
Low 3	2422	18.72	18.72	30.00	-11.28
Mid 6	2437	21.17	21.17	30.00	-8.83
High 9	2452	18.64	18.64	30.00	-11.36
High 10	2457	17.18	17.18	30.00	-12.82
High 11	2462	14.59	14.59	30.00	-15.41
High 12	2467	12.14	12.14	30.00	-17.86
High 13	2472	-0.39	-0.39	30.00	-30.39

1TX LAT 3: 26-Tones, RU Index 8

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	-0.4	30.00	30	36	30.00
Low 2	2417	-0.4	30.00	30	36	30.00
Low 3	2422	-0.4	30.00	30	36	30.00
Mid 6	2437	-0.4	30.00	30	36	30.00
High 9	2452	-0.4	30.00	30	36	30.00
High 10	2457	-0.4	30.00	30	36	30.00
High 11	2462	-0.4	30.00	30	36	30.00
High 12	2467	-0.4	30.00	30	36	30.00
High 13	2472	-0.4	30.00	30	36	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power
---------------------------	------	---

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	14.67	14.67	30.00	-15.33
Low 2	2417	17.04	17.04	30.00	-12.96
Low 3	2422	18.57	18.57	30.00	-11.43
Mid 6	2437	21.19	21.19	30.00	-8.81
High 9	2452	18.57	18.57	30.00	-11.43
High 10	2457	17.22	17.22	30.00	-12.78
High 11	2462	14.65	14.65	30.00	-15.35
High 12	2467	12.23	12.23	30.00	-17.77
High 13	2472	-0.41	-0.41	30.00	-30.41

1TX LAT 3: 242-Tones, RU Index 61

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	-0.4	30.00	30	36	30.00
Low 2	2417	-0.4	30.00	30	36	30.00
Low 3	2422	-0.4	30.00	30	36	30.00
Mid 6	2437	-0.4	30.00	30	36	30.00
High 9	2452	-0.4	30.00	30	36	30.00
High 10	2457	-0.4	30.00	30	36	30.00
High 11	2462	-0.4	30.00	30	36	30.00
High 12	2467	-0.4	30.00	30	36	30.00
High 13	2472	-0.4	30.00	30	36	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power
---------------------------	------	---

Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	14.66	14.66	30.00	-15.34
Low 2	2417	17.13	17.13	30.00	-12.87
Low 3	2422	18.70	18.70	30.00	-11.30
Mid 6	2437	21.24	21.24	30.00	-8.76
High 9	2452	18.52	18.52	30.00	-11.48
High 10	2457	17.12	17.12	30.00	-12.88
High 11	2462	14.71	14.71	30.00	-15.29
High 12	2467	12.19	12.19	30.00	-17.81
High 13	2472	2.59	2.59	30.00	-27.41

8.4.4. 802.11ax HE20 OFDMA MODE 2TX

2TX UAT 1 + LAT 3 OFDMA MODE: 26-Tones, RU Index 0

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	-1.21	30.00	36	30.00
Low 2	2417	-1.21	30.00	36	30.00
Low 3	2422	-1.21	30.00	36	30.00
Low 4	2427	-1.21	30.00	36	30.00
Mid 6	2437	-1.21	30.00	36	30.00
High 8	2447	-1.21	30.00	36	30.00
High 9	2452	-1.21	30.00	36	30.00
High 10	2457	-1.21	30.00	36	30.00
High 11	2462	-1.21	30.00	36	30.00
High 12	2467	-1.21	30.00	36	30.00
High 13	2472	-1.21	30.00	36	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power
--------------------	------	--

Results

Channel	Frequency (MHz)	UAT 1 Meas Power (dBm)	LAT 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	13.67	13.64	16.67	30.00	-13.33
Low 2	2417	16.16	16.17	19.18	30.00	-10.82
Low 3	2422	16.63	16.69	19.67	30.00	-10.33
Low 4	2427	18.67	18.65	21.67	30.00	-8.33
Mid 6	2437	18.60	19.56	22.12	30.00	-7.88
High 8	2447	18.64	18.57	21.62	30.00	-8.38
High 9	2452	16.52	16.71	19.63	30.00	-10.37
High 10	2457	16.16	16.11	19.15	30.00	-10.85
High 11	2462	13.66	13.68	16.68	30.00	-13.32
High 12	2467	11.22	11.23	14.24	30.00	-15.76
High 13	2472	-0.43	-0.37	2.61	30.00	-27.39

2TX UAT 1 + LAT 3 OFDMA MODE: 26-Tones, RU Index 4

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	-1.21	30.00	36	30.00
Low 2	2417	-1.21	30.00	36	30.00
Low 3	2422	-1.21	30.00	36	30.00
Low 4	2427	-1.21	30.00	36	30.00
Mid 6	2437	-1.21	30.00	36	30.00
High 8	2447	-1.21	30.00	36	30.00
High 9	2452	-1.21	30.00	36	30.00
High 10	2457	-1.21	30.00	36	30.00
High 11	2462	-1.21	30.00	36	30.00
High 12	2467	-1.21	30.00	36	30.00
High 13	2472	-1.21	30.00	36	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power
---------------------------	------	---

Results

Channel	Frequency (MHz)	UAT 1 Meas Power (dBm)	LAT 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	13.57	13.60	16.60	30.00	-13.40
Low 2	2417	16.17	16.21	19.20	30.00	-10.80
Low 3	2422	16.64	16.71	19.69	30.00	-10.31
Low 4	2427	18.57	18.63	21.61	30.00	-8.39
Mid 6	2437	18.65	19.57	22.14	30.00	-7.86
High 8	2447	18.53	18.55	21.55	30.00	-8.45
High 9	2452	16.64	16.71	19.69	30.00	-10.31
High 10	2457	16.16	16.09	19.14	30.00	-10.86
High 11	2462	13.51	13.59	16.56	30.00	-13.44
High 12	2467	11.22	11.18	14.21	30.00	-15.79
High 13	2472	-0.46	-0.44	2.56	30.00	-27.44

2TX UAT 1 + LAT 3 OFDMA MODE: 26-Tones, RU Index 8

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	-1.21	30.00	36	30.00
Low 2	2417	-1.21	30.00	36	30.00
Low 3	2422	-1.21	30.00	36	30.00
Low 4	2427	-1.21	30.00	36	30.00
Mid 6	2437	-1.21	30.00	36	30.00
High 8	2447	-1.21	30.00	36	30.00
High 9	2452	-1.21	30.00	36	30.00
High 10	2457	-1.21	30.00	36	30.00
High 11	2462	-1.21	30.00	36	30.00
High 12	2467	-1.21	30.00	36	30.00
High 13	2472	-1.21	30.00	36	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power
---------------------------	------	---

Results

Channel	Frequency (MHz)	UAT 1 Meas Power (dBm)	LAT 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	13.61	13.67	16.65	30.00	-13.35
Low 2	2417	16.15	16.21	19.19	30.00	-10.81
Low 3	2422	16.69	16.58	19.65	30.00	-10.35
Low 4	2427	18.64	18.57	21.62	30.00	-8.38
Mid 6	2437	18.71	19.69	22.24	30.00	-7.76
High 8	2447	18.52	18.54	21.54	30.00	-8.46
High 9	2452	16.57	16.52	19.56	30.00	-10.44
High 10	2457	16.15	16.20	19.19	30.00	-10.81
High 11	2462	13.63	13.58	16.62	30.00	-13.38
High 12	2467	11.12	11.09	14.12	30.00	-15.88
High 13	2472	-0.41	-0.43	2.59	30.00	-27.41

2TX UAT 1 + LAT 3 OFDMA MODE: 242-Tones, RU Index 61

Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Max Power (dBm)
Low 1	2412	-1.21	30.00	36	30.00
Low 2	2417	-1.21	30.00	36	30.00
Low 3	2422	-1.21	30.00	36	30.00
Low 4	2427	-1.21	30.00	36	30.00
Mid 6	2437	-1.21	30.00	36	30.00
High 9	2452	-1.21	30.00	36	30.00
High 10	2457	-1.21	30.00	36	30.00
High 11	2462	-1.21	30.00	36	30.00
High 12	2467	-1.21	30.00	36	30.00
High 13	2472	-1.21	30.00	36	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power
---------------------------	------	---

Results

Channel	Frequency (MHz)	UAT 1 Meas Power (dBm)	LAT 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
Low 1	2412	13.62	13.71	16.68	30.00	-13.32
Low 2	2417	16.22	16.21	19.23	30.00	-10.77
Low 3	2422	16.64	16.68	19.67	30.00	-10.33
Low 4	2427	18.69	18.70	21.71	30.00	-8.29
Mid 6	2437	18.64	21.25	23.15	30.00	-6.85
High 8	2447	18.74	18.73	21.75	30.00	-8.25
High 9	2452	16.55	16.62	19.60	30.00	-10.40
High 10	2457	16.17	16.24	19.22	30.00	-10.78
High 11	2462	13.68	13.65	16.68	30.00	-13.32
High 12	2467	11.17	11.07	14.13	30.00	-15.87
High 13	2472	2.59	2.56	5.59	30.00	-24.41

8.5. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247 (e)

RSS-247 (5.2) (b)

The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

RESULTS

8.5.1. 802.11b MODE

1TX UAT 1

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
---------------------------	------	---

PSD Results

Channel	Frequency (MHz)	UAT 1 Meas (dBm/ 3kHz)	Total Corr'd PSD (dBm/ 3kHz)	Limit (dBm/ 3kHz)	Margin (dB)
Low 1	2412	-2.560	-2.56	8.0	-10.6
Mid 6	2437	0.050	0.05	8.0	-8.0
High 11	2462	-2.450	-2.45	8.0	-10.5
High 12	2467	-4.540	-4.54	8.0	-12.5
High 13	2472	-5.930	-5.93	8.0	-13.9



LOW CHANNEL 1



MID CHANNEL 6



HIGH CHANNEL 11



HIGH CHANNEL 12



HIGH CHANNEL 13

1TX LAT 3

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
---------------------------	------	---

PSD Results

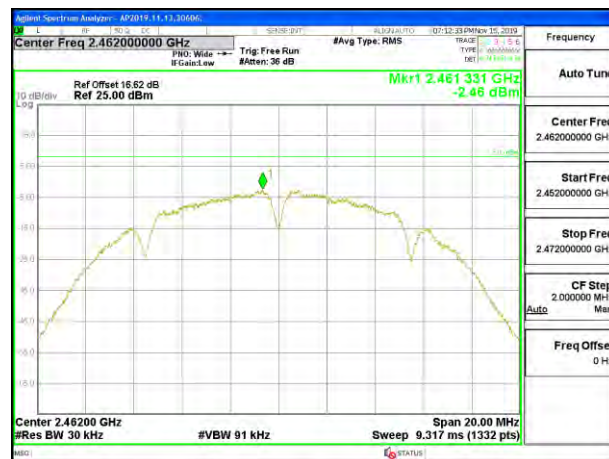
Channel	Frequency (MHz)	LAT 3 Meas (dBm/ 3kHz)	Total Corr'd PSD (dBm/ 3kHz)	Limit (dBm/ 3kHz)	Margin (dB)
Low 1	2412	-2.440	-2.44	8.0	-10.4
Mid 6	2437	-0.020	-0.02	8.0	-8.0
High 11	2462	-2.460	-2.46	8.0	-10.5
High 12	2467	-4.500	-4.50	8.0	-12.5
High 13	2472	-6.040	-6.04	8.0	-14.0



LOW CHANNEL 1



MID CHANNEL 6



HIGH CHANNEL 11



HIGH CHANNEL 12



HIGH CHANNEL 13

8.5.2. 802.11n HT20 MODE

1TX UAT 1

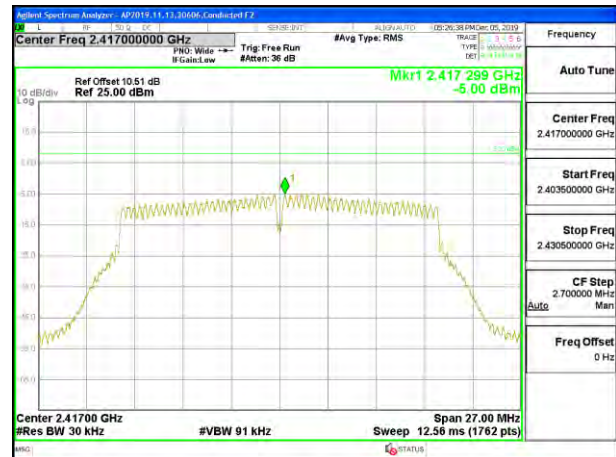
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
--------------------	------	--

PSD Results

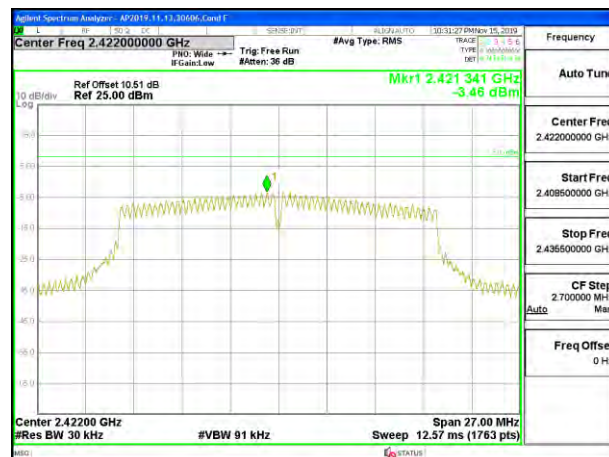
Channel	Frequency (MHz)	UAT 1 Meas (dBm/ 3kHz)	Total Corr'd PSD (dBm/ 3kHz)	Limit (dBm/ 3kHz)	Margin (dB)
Low 1	2412	-7.57	-7.57	8.0	-15.6
Low 2	2417	-5.00	-5.00	8.0	-13.0
Low 3	2422	-3.46	-3.46	8.0	-11.5
Mid 6	2437	-2.44	-2.44	8.0	-10.4
High 9	2452	-3.48	-3.48	8.0	-11.5
High 10	2457	-4.90	-4.90	8.0	-12.9
High 11	2462	-7.46	-7.46	8.0	-15.5
High 12	2467	-9.96	-9.96	8.0	-18.0
High 13	2472	-19.59	-19.59	8.0	-27.6



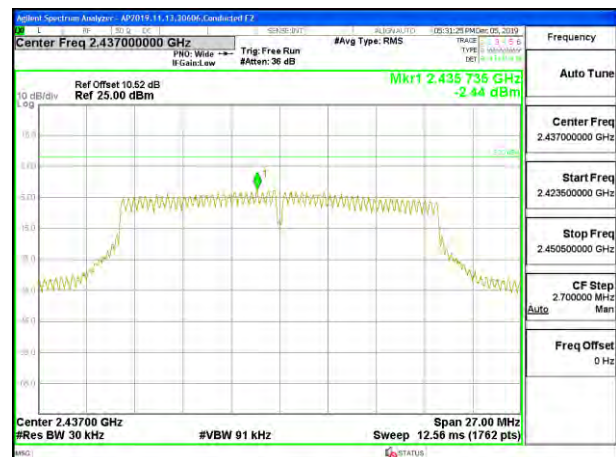
LOW CHANNEL 1



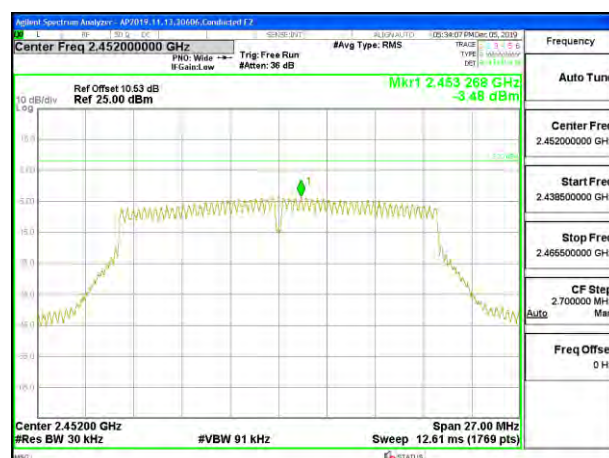
LOW CHANNEL 2



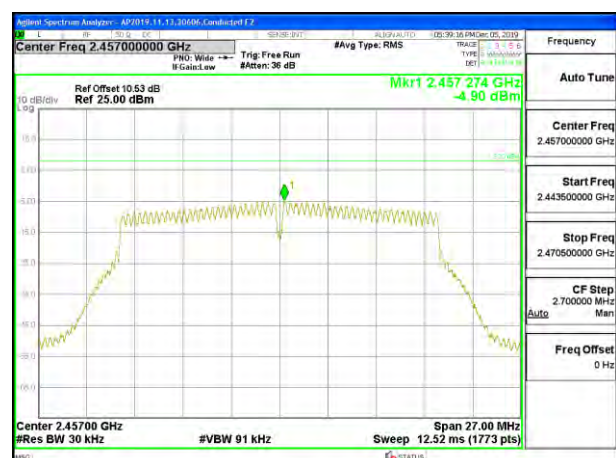
LOW CHANNEL 3



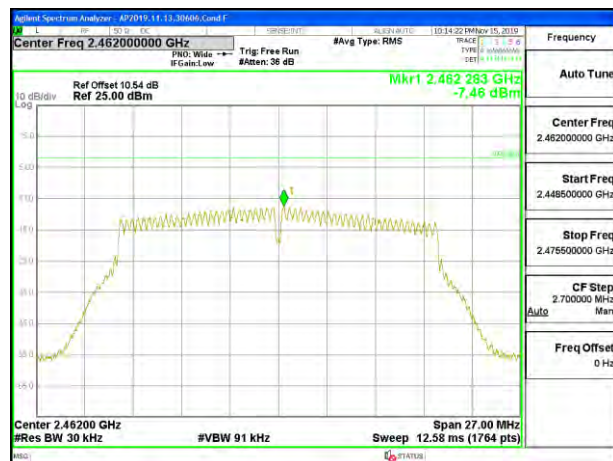
MID CHANNEL 6



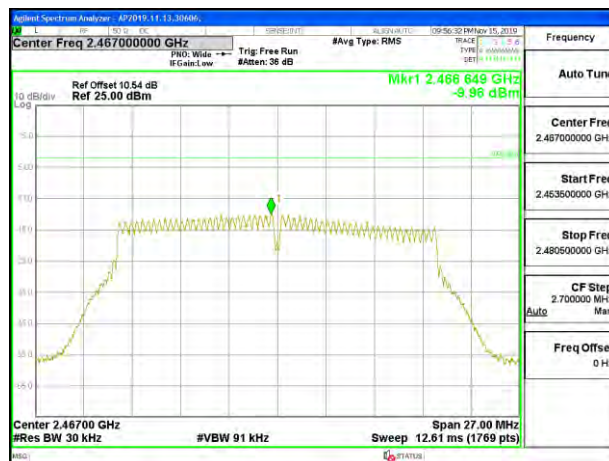
HIGH CHANNEL 9



HIGH CHANNEL 10



HIGH CHANNEL 11



HIGH CHANNEL 12



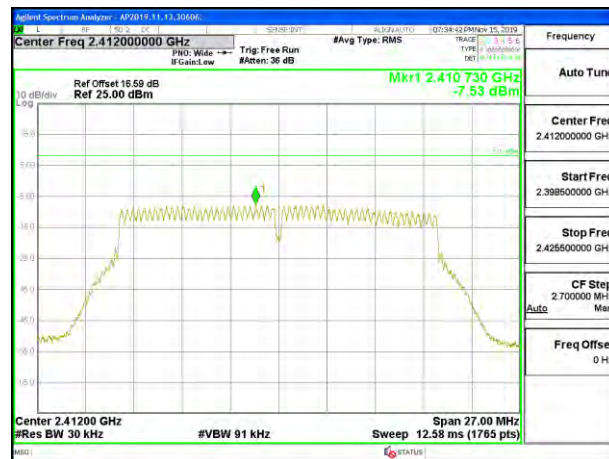
HIGH CHANNEL 13

1TX LAT 3

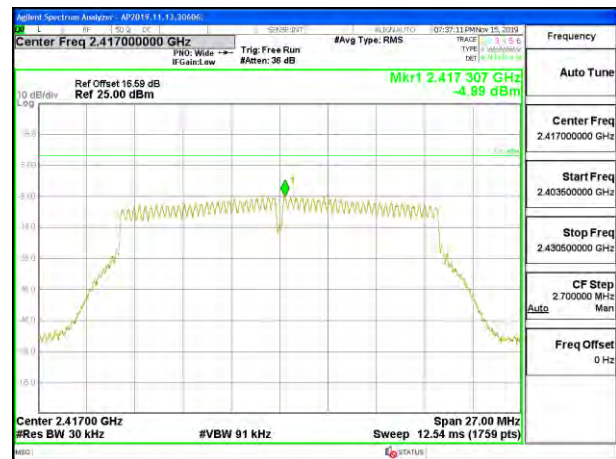
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
---------------------------	------	---

PSD Results

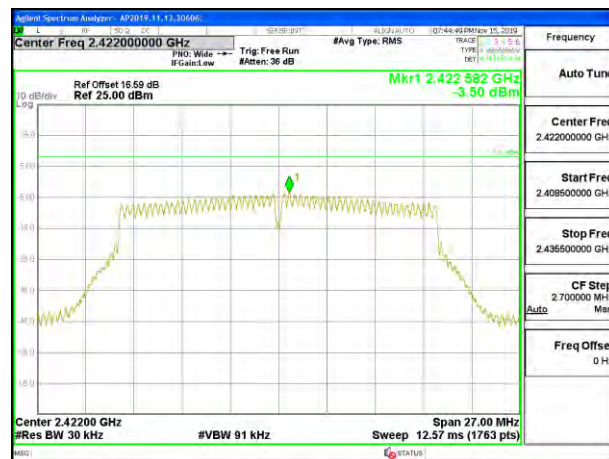
Channel	Frequency (MHz)	LAT 3 Meas (dBm/ 3kHz)	Total Corr'd PSD (dBm/ 3kHz)	Limit (dBm/ 3kHz)	Margin (dB)
Low 1	2412	-7.53	-7.53	8.0	-15.5
Low 2	2417	-4.99	-4.99	8.0	-13.0
Low 3	2422	-3.50	-3.50	8.0	-11.5
Mid 6	2437	-2.49	-2.49	8.0	-10.5
High 9	2452	-3.47	-3.47	8.0	-11.5
High 10	2457	-5.03	-5.03	8.0	-13.0
High 11	2462	-7.53	-7.53	8.0	-15.5
High 12	2467	-10.04	-10.04	8.0	-18.0
High 13	2472	-19.47	-19.47	8.0	-27.5



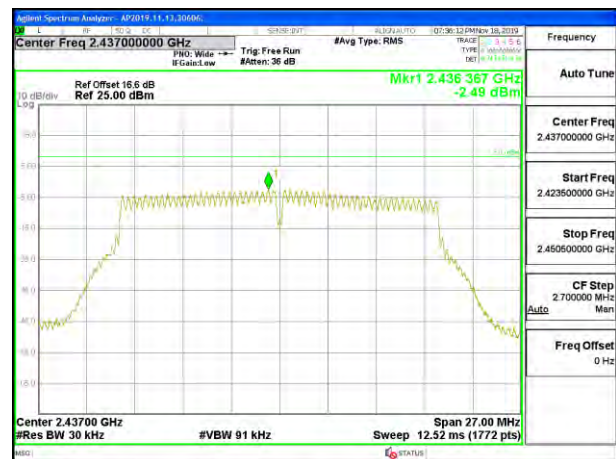
LOW CHANNEL 1



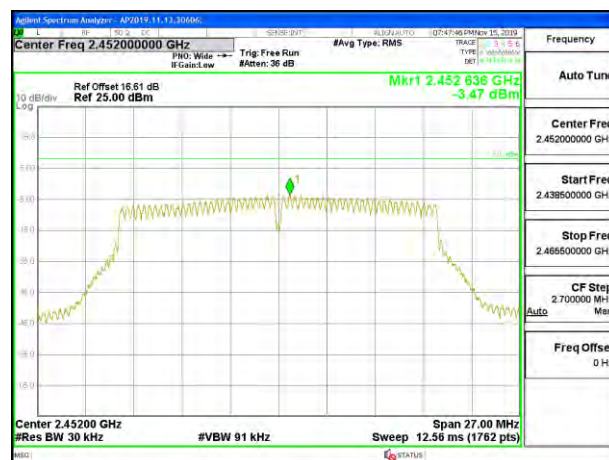
LOW CHANNEL 2



LOW CHANNEL 3



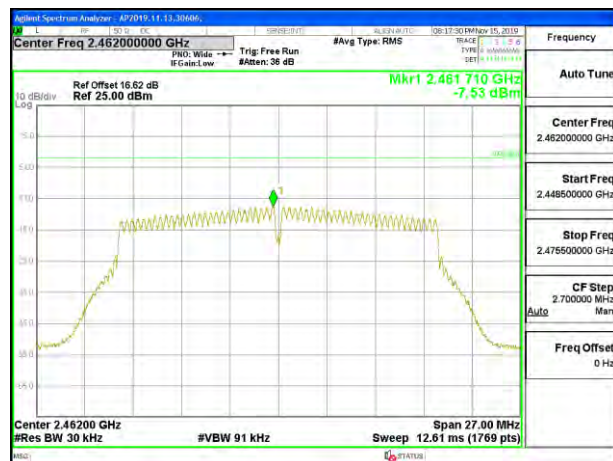
MID CHANNEL 6



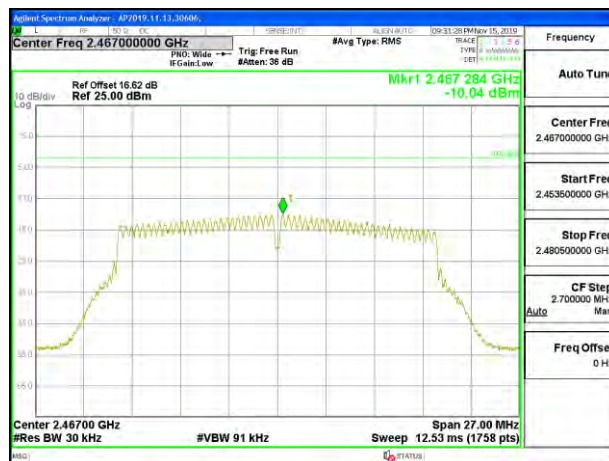
HIGH CHANNEL 9



HIGH CHANNEL 10



HIGH CHANNEL 11



HIGH CHANNEL 12



HIGH CHANNEL 13

2TX UAT 1 + LAT 3 CDD MODE

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
---------------------------	------	---

PSD Results

Channel	Frequency (MHz)	UAT 1 Meas (dBm/ 3kHz)	LAT 3 Meas (dBm/ 3kHz)	Total Corr'd PSD (dBm/ 3kHz)	Limit (dBm/ 3kHz)	Margin (dB)
Low 1	2412	-8.66	-8.48	-5.56	8.0	-13.6
Low 2	2417	-5.96	-5.96	-2.95	8.0	-10.9
Low 3	2422	-4.47	-4.52	-1.48	8.0	-9.5
Mid 6	2437	-2.53	-2.54	0.48	8.0	-7.5
High 9	2452	-4.51	-4.47	-1.48	8.0	-9.5
High 10	2457	-6.01	-6.08	-3.03	8.0	-11.0
High 11	2462	-8.60	-8.49	-5.53	8.0	-13.5
High 12	2467	-10.98	-11.07	-8.01	8.0	-16.0
High 13	2472	-19.50	-19.28	-16.38	8.0	-24.4



LOW CHANNEL 1 UAT 1



LOW CHANNEL 1 LAT 3



LOW CHANNEL 2 UAT 1



LOW CHANNEL 2 LAT 3



LOW CHANNEL 3 UAT 1



LOW CHANNEL 3 LAT 3