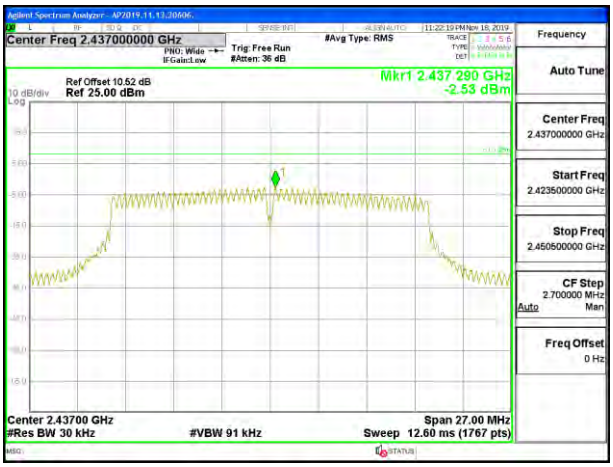
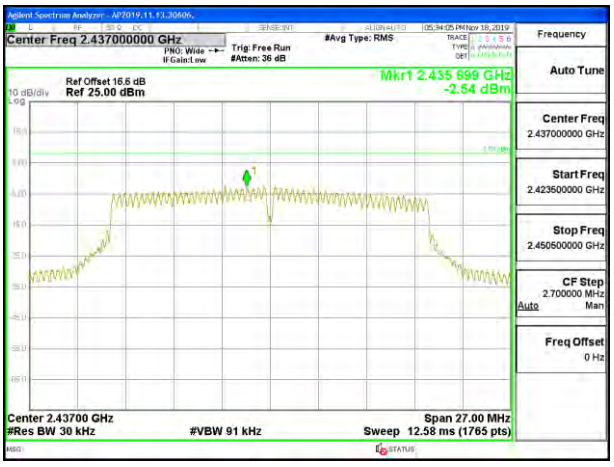
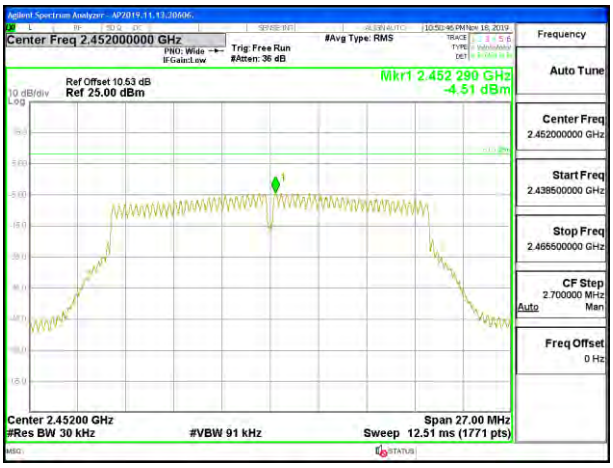


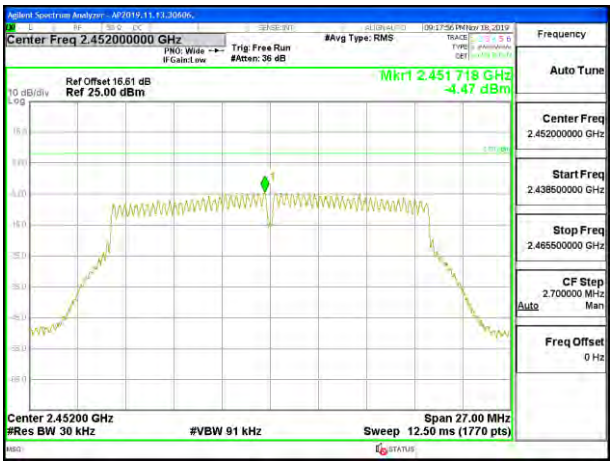
MID CHANNEL 6 UAT 1



MID CHANNEL 6 LAT 3



HIGH CHANNEL 9 UAT 1



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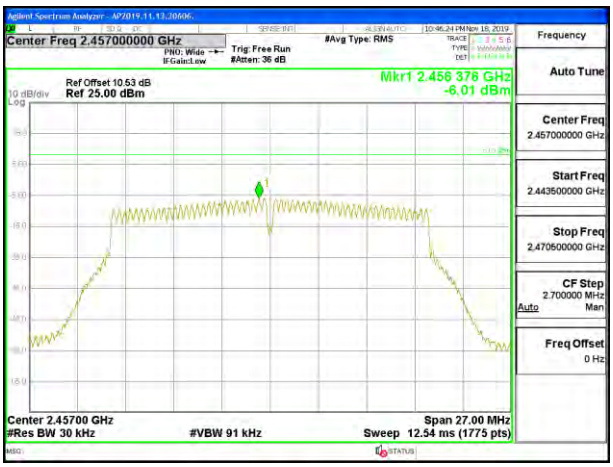
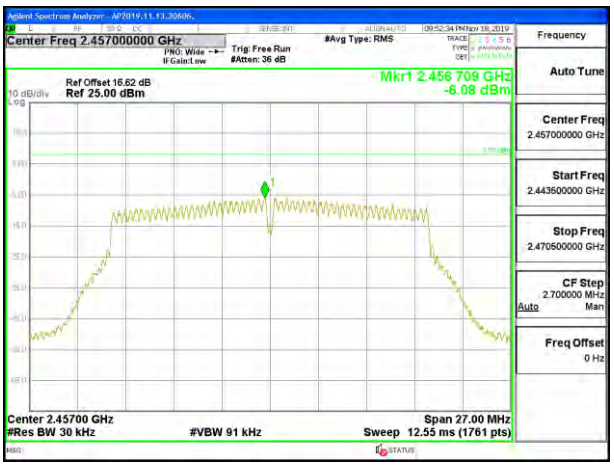


HIGH CHANNEL 10 UAT 1



HIGH CHANNEL 10 LAT 3

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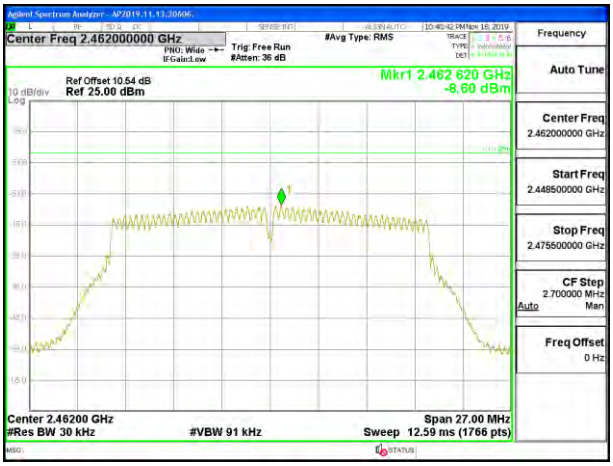
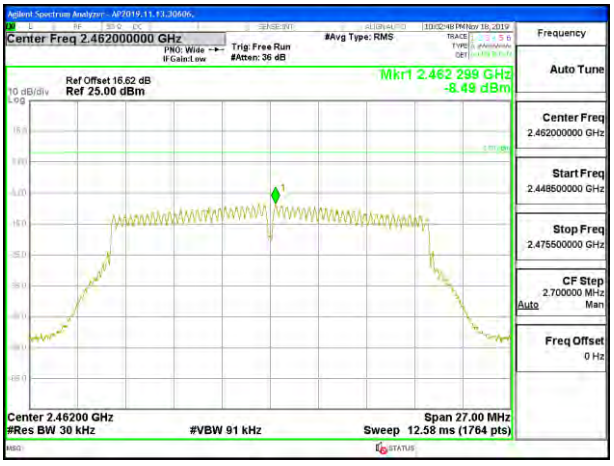
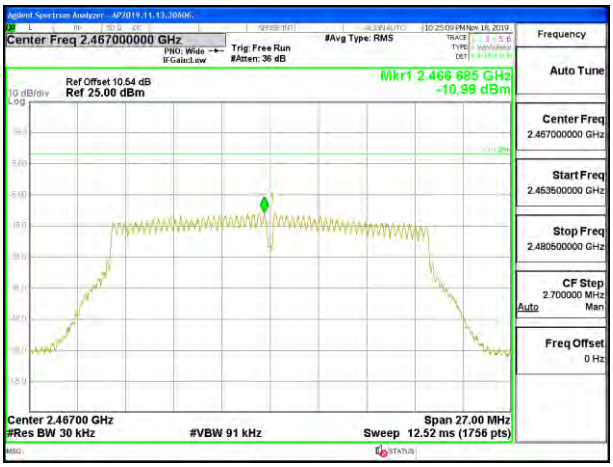


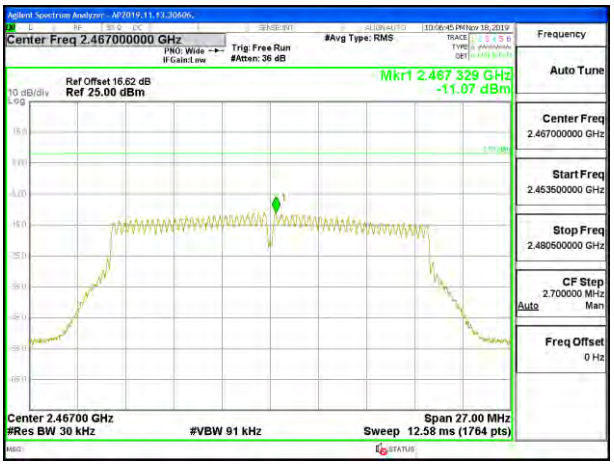
HIGH CHANNEL 11 UAT 1



HIGH CHANNEL 11 LAT 3

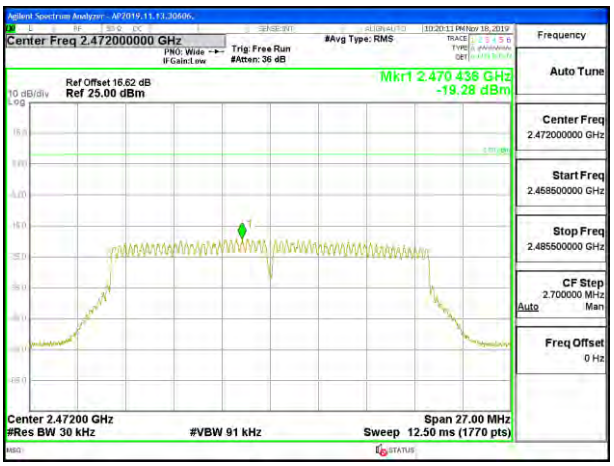


HIGH CHANNEL 12 UAT 1



HIGH CHANNEL 12 LAT 3

HIGH CHANNEL 13 UAT 1



HIGH CHANNEL 13 LAT 3

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8.5.3. 802.11ax HE20 MODE

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

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	-1.98	-1.98	8.0	-10.0
Low 2	2417	0.56	0.56	8.0	-7.4
Low 3	2422	2.08	2.08	8.0	-5.9
Mid 6	2437	4.47	4.47	8.0	-3.5
High 9	2452	2.08	2.08	8.0	-5.9
High 10	2457	0.47	0.47	8.0	-7.5
High 11	2462	-2.06	-2.06	8.0	-10.1
High 12	2467	-4.45	-4.45	8.0	-12.5
High 13	2472	-17.22	-17.22	8.0	-25.2

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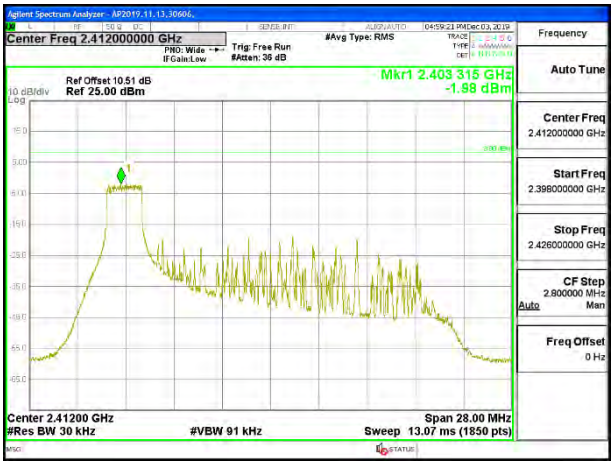
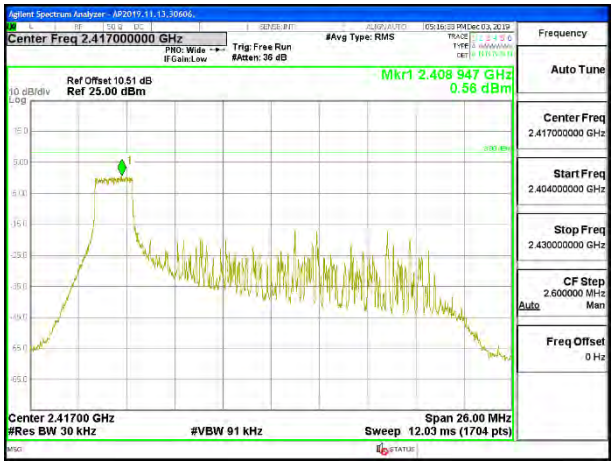


LOW CHANNEL 1



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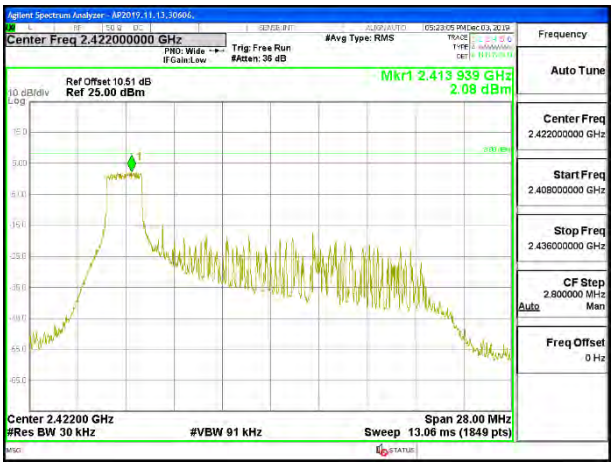

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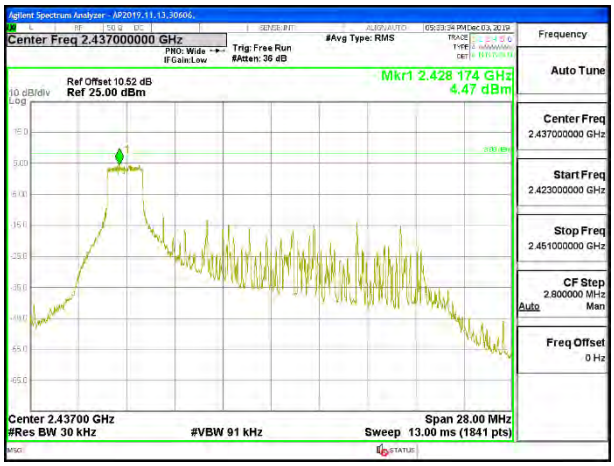
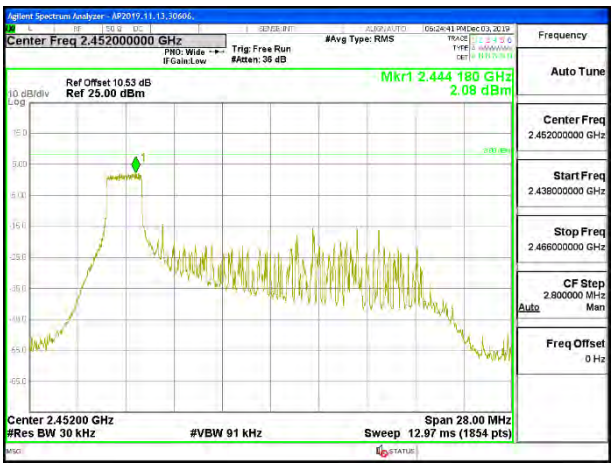
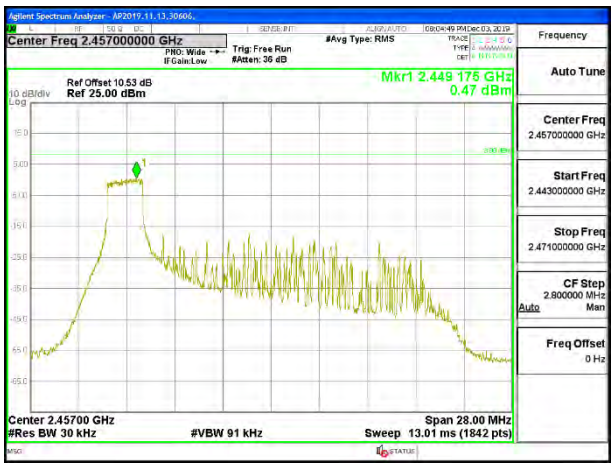


MID CHANNEL 6



HIGH CHANNEL 9



HIGH CHANNEL 10

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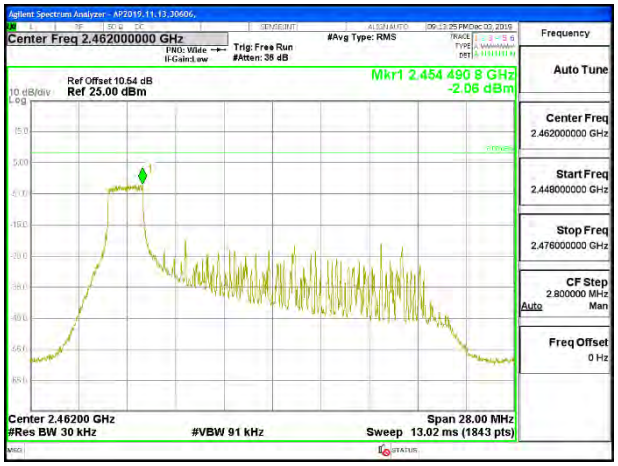
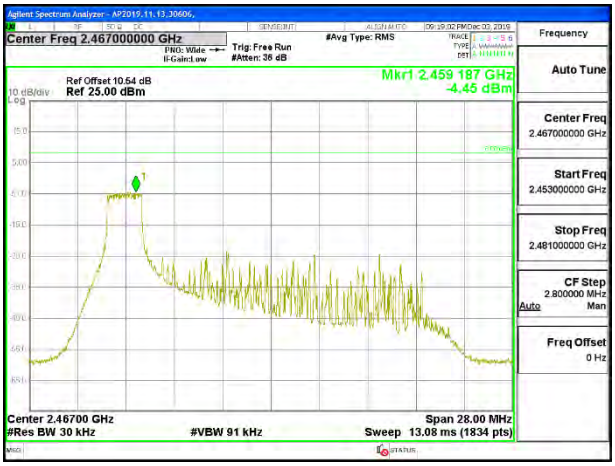
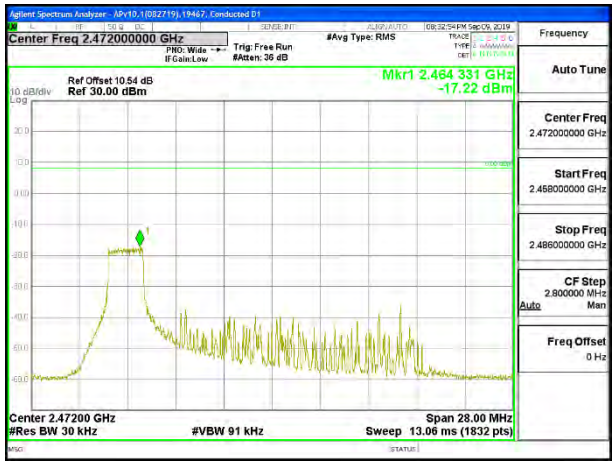


HIGH CHANNEL 11



HIGH CHANNEL 12



HIGH CHANNEL 13

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

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	-2.07	-2.07	8.0	-10.1
Low 2	2417	0.54	0.54	8.0	-7.5
Low 3	2422	2.01	2.01	8.0	-6.0
Mid 6	2437	4.52	4.52	8.0	-3.5
High 9	2452	1.95	1.95	8.0	-6.1
High 10	2457	0.58	0.58	8.0	-7.4
High 11	2462	-2.00	-2.00	8.0	-10.0
High 12	2467	-4.48	-4.48	8.0	-12.5
High 13	2472	-17.06	-17.06	8.0	-25.1

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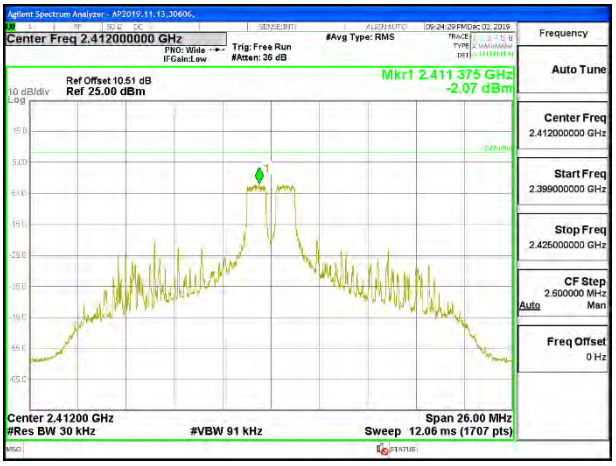
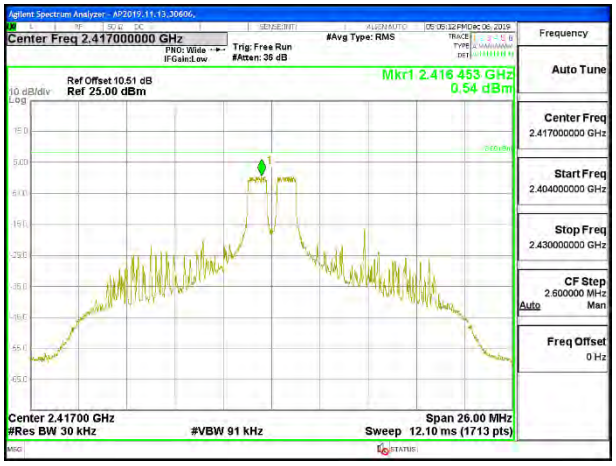
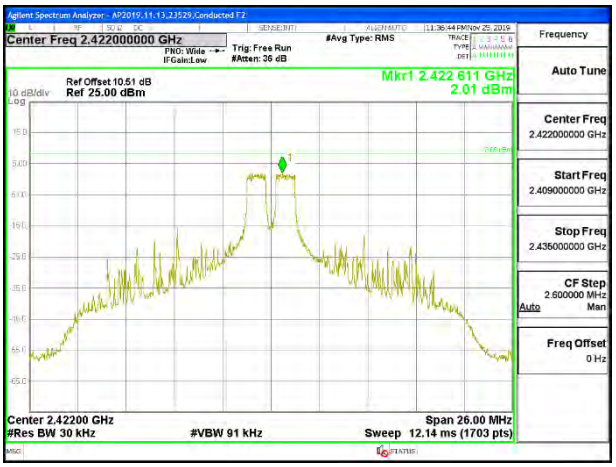


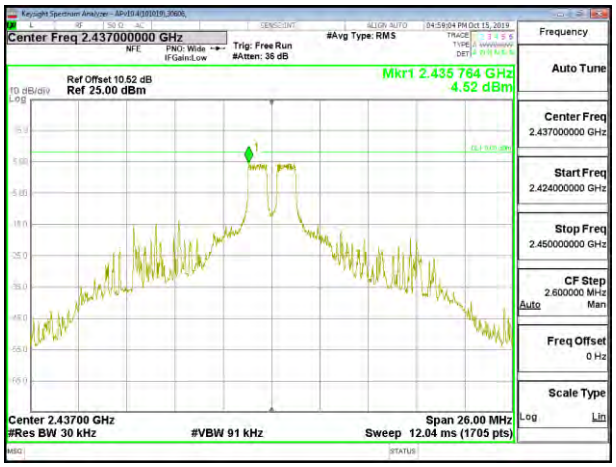
LOW CHANNEL 1



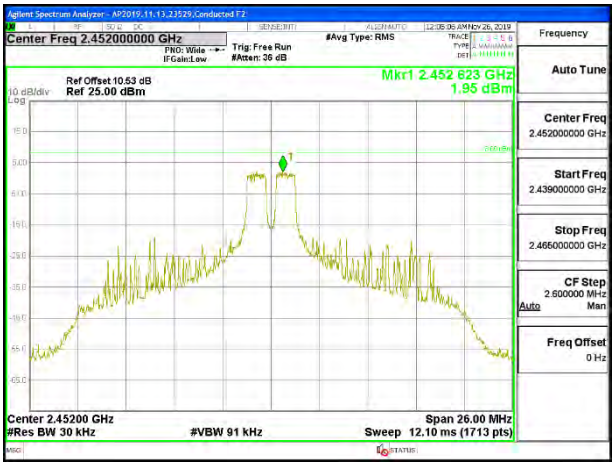
LOW CHANNEL 2



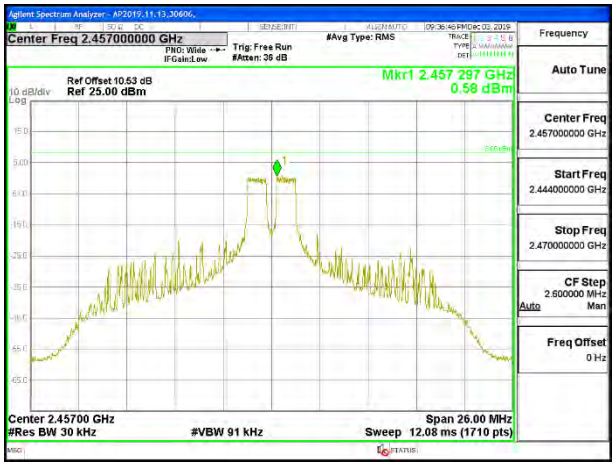
LOW CHANNEL 3



MID CHANNEL 6



HIGH CHANNEL 9



HIGH CHANNEL 10

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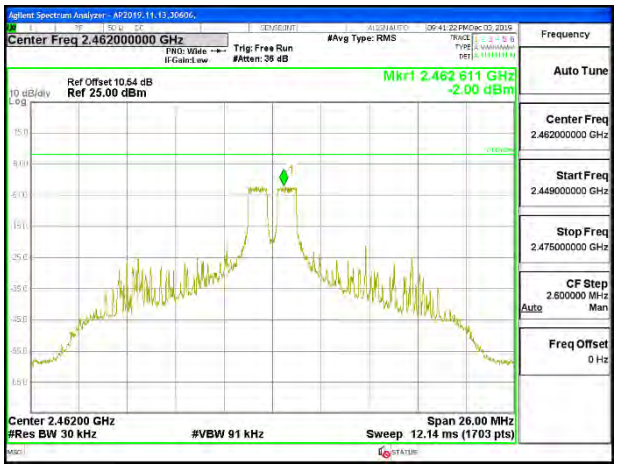

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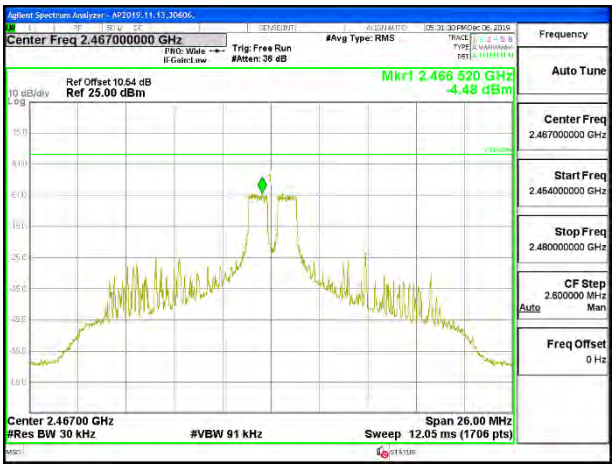
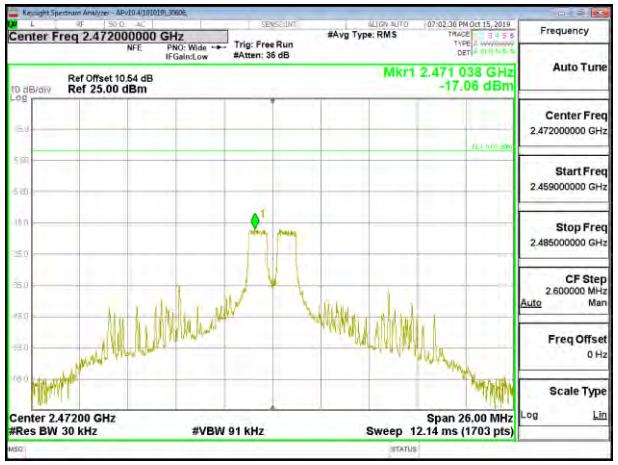


HIGH CHANNEL 12



HIGH CHANNEL 13

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

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	-2.04	-2.04	8.0	-10.0
Low 2	2417	0.53	0.53	8.0	-7.5
Low 3	2422	2.05	2.05	8.0	-6.0
Mid 6	2437	4.46	4.46	8.0	-3.5
High 9	2452	2.05	2.05	8.0	-6.0
High 10	2457	0.52	0.52	8.0	-7.5
High 11	2462	-2.12	-2.12	8.0	-10.1
High 12	2467	-4.46	-4.46	8.0	-12.5
High 13	2472	-17.11	-17.11	8.0	-25.1

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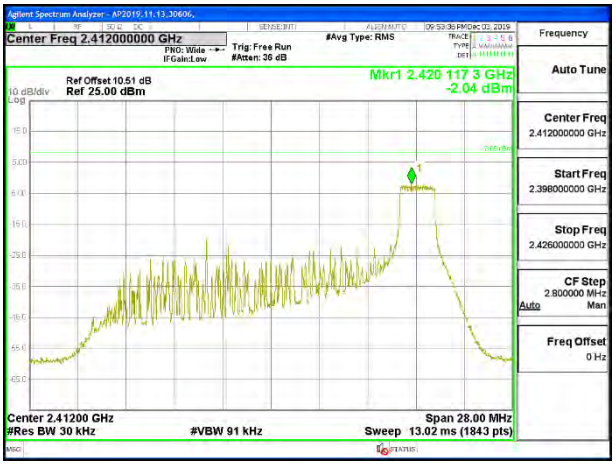

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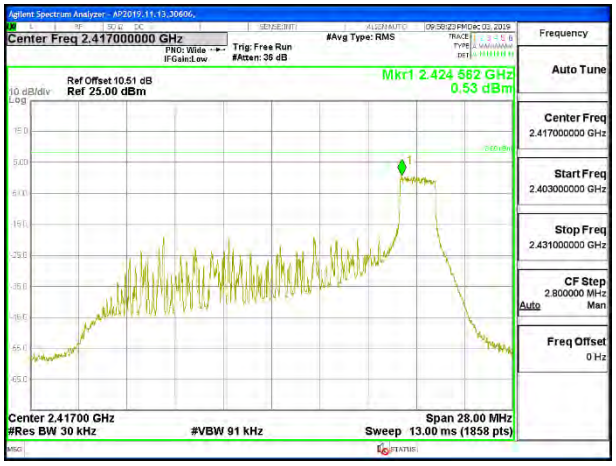

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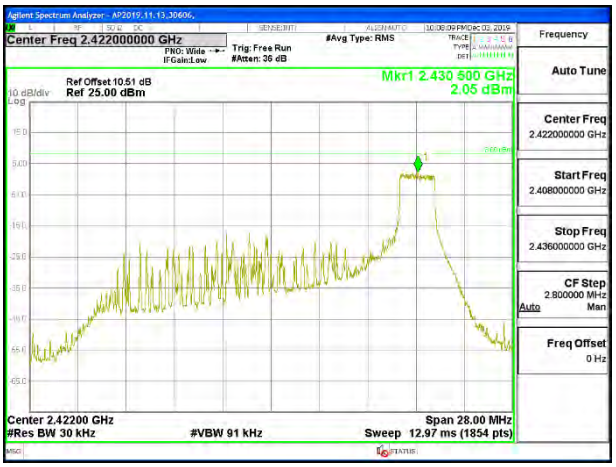
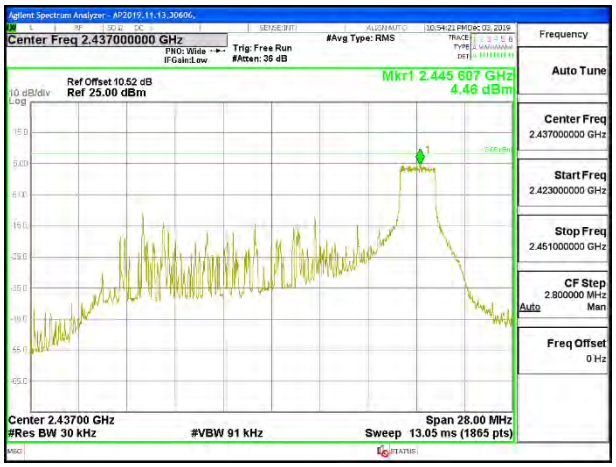
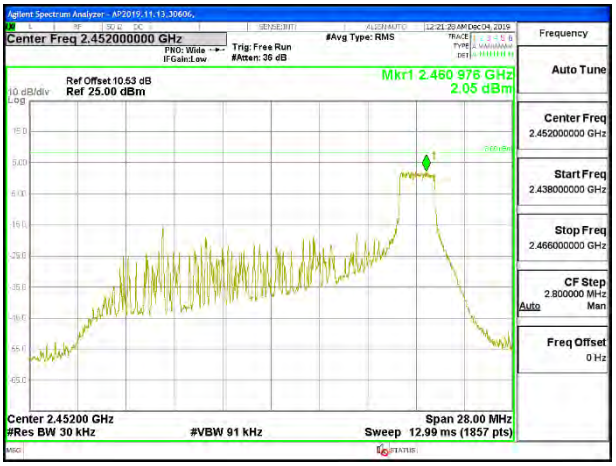


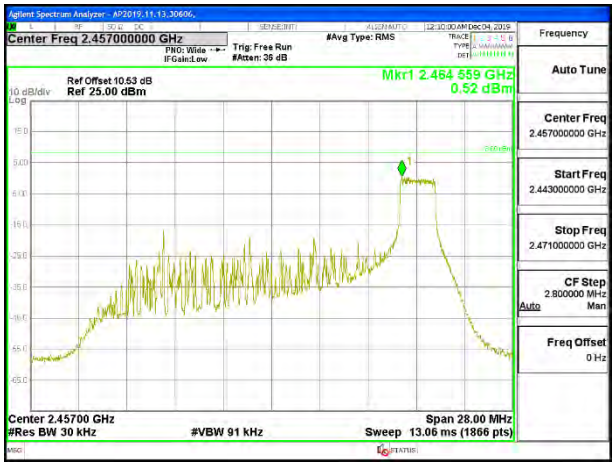
LOW CHANNEL 3



MID CHANNEL 6



HIGH CHANNEL 9



HIGH CHANNEL 10

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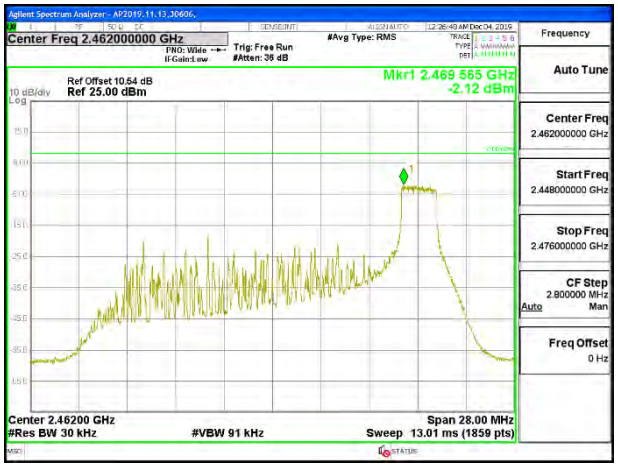

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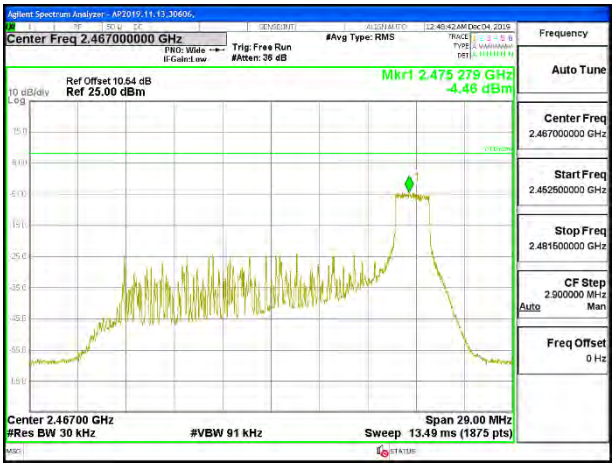
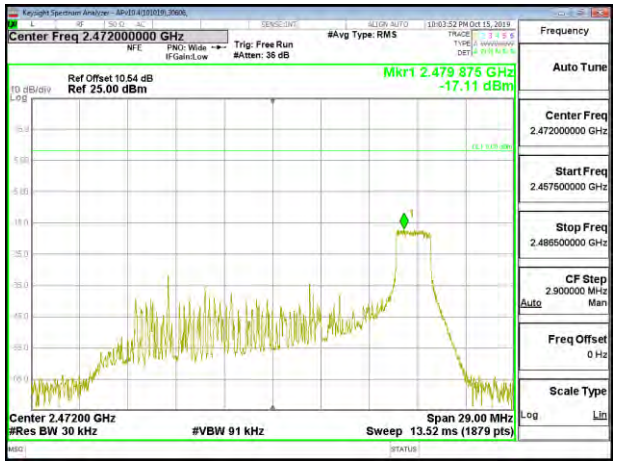


HIGH CHANNEL 12



HIGH CHANNEL 13

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

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	-9.58	-9.58	8.0	-17.6
Low 2	2417	-7.11	-7.11	8.0	-15.1
Low 3	2422	-5.04	-5.04	8.0	-13.0
Mid 6	2437	-3.06	-3.06	8.0	-11.1
High 9	2452	-5.53	-5.53	8.0	-13.5
High 10	2457	-6.95	-6.95	8.0	-15.0
High 11	2462	-9.68	-9.68	8.0	-17.7
High 12	2467	-11.93	-11.93	8.0	-19.9
High 13	2472	-21.44	-21.44	8.0	-29.4

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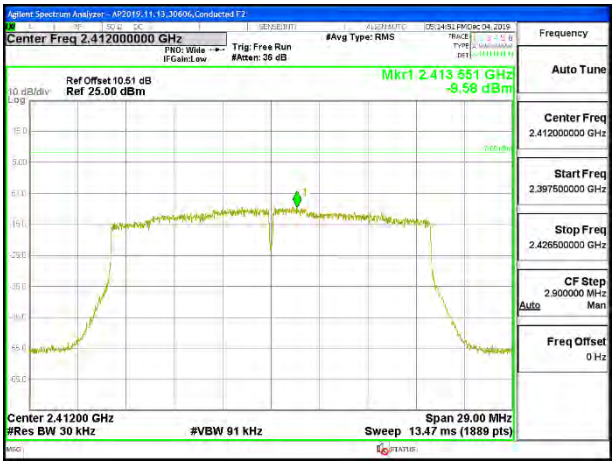
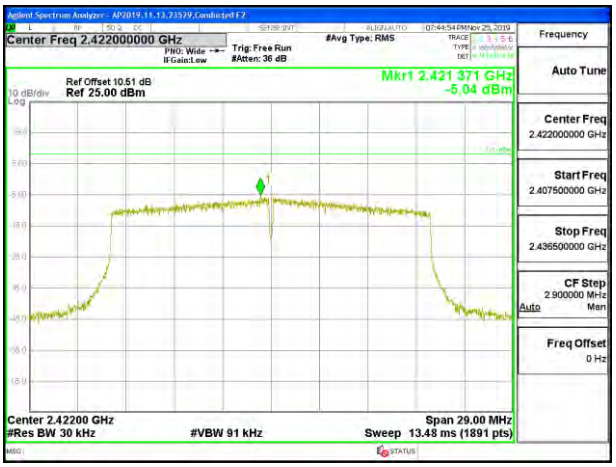


LOW CHANNEL 1

LOW CHANNEL 2



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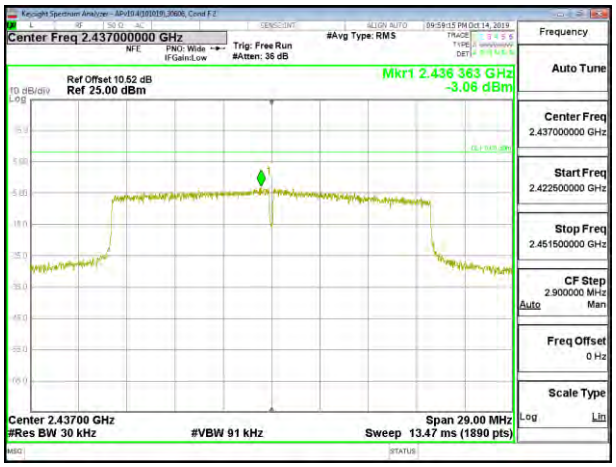
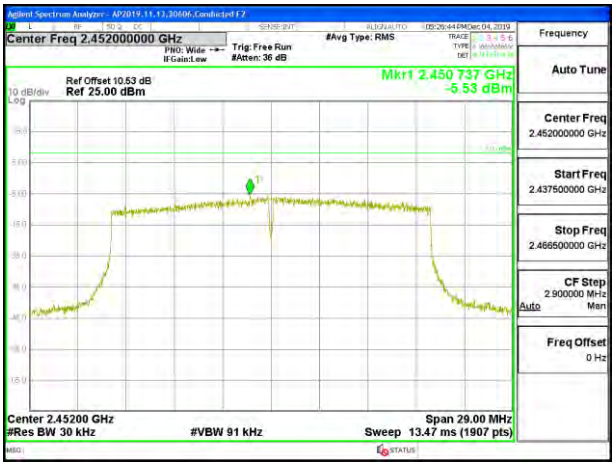
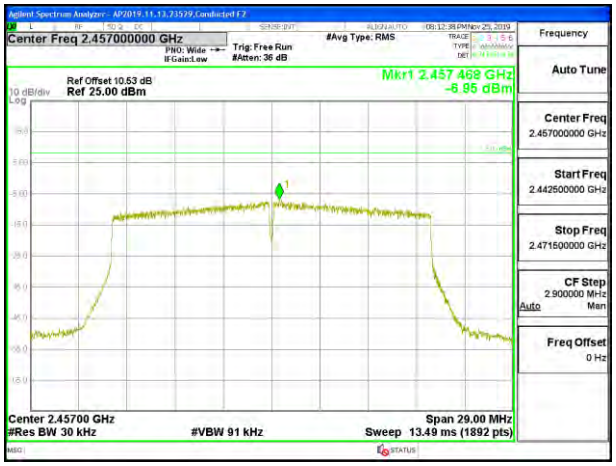


MID CHANNEL 6



HIGH CHANNEL 9



HIGH CHANNEL 10

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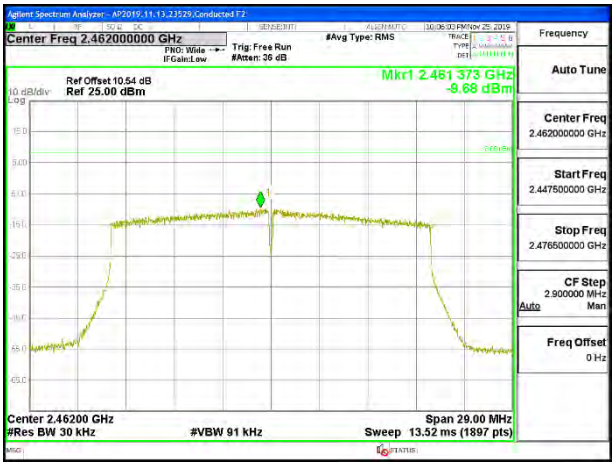
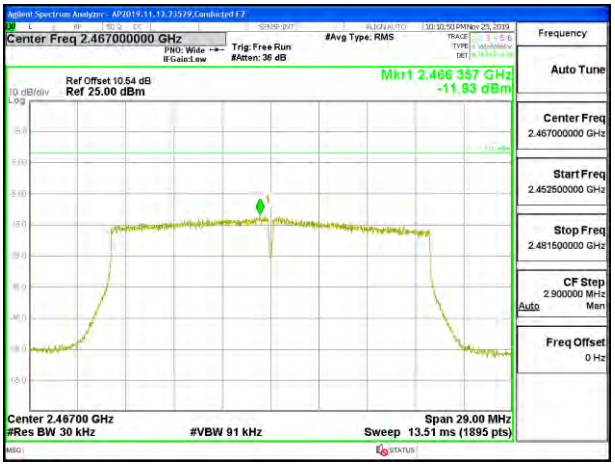
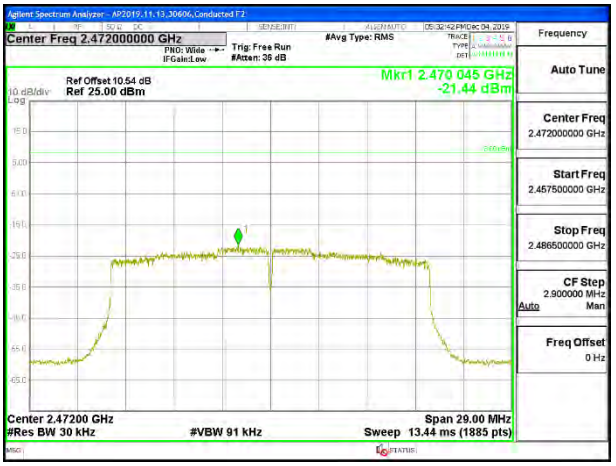


HIGH CHANNEL 11



HIGH CHANNEL 12



HIGH CHANNEL 13

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

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	-2.03	-2.03	8.0	-10.0
Low 2	2417	0.44	0.44	8.0	-7.6
Low 3	2422	1.87	1.87	8.0	-6.1
Mid 6	2437	4.51	4.51	8.0	-3.5
High 9	2452	1.95	1.95	8.0	-6.1
High 10	2457	0.47	0.47	8.0	-7.5
High 11	2462	-1.95	-1.95	8.0	-10.0
High 12	2467	-4.47	-4.47	8.0	-12.5
High 13	2472	-16.95	-16.95	8.0	-25.0

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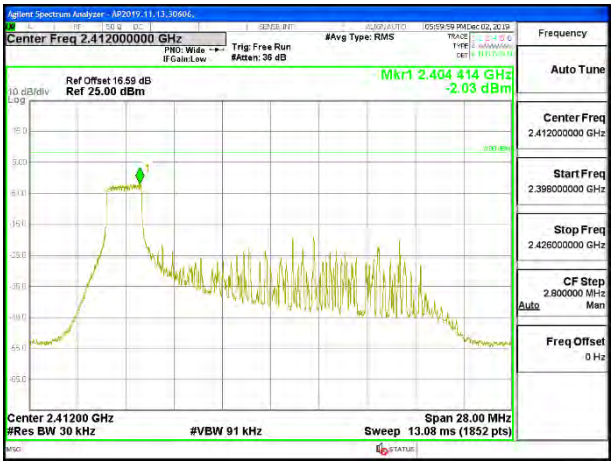

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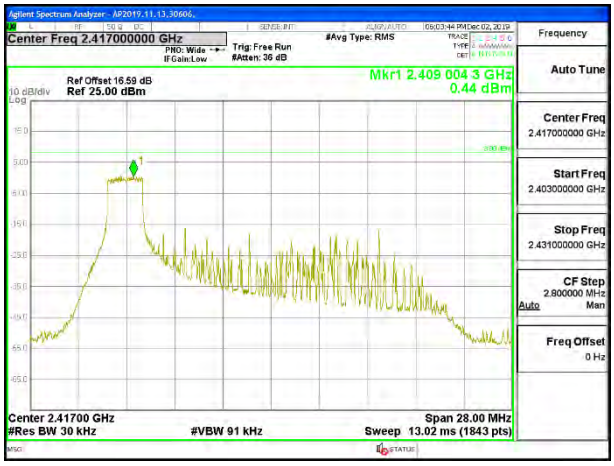

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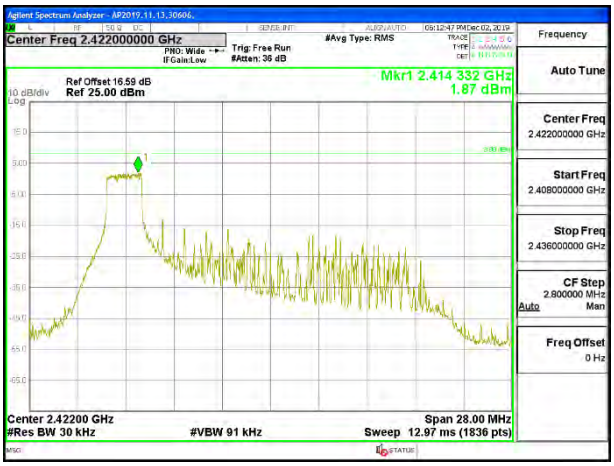

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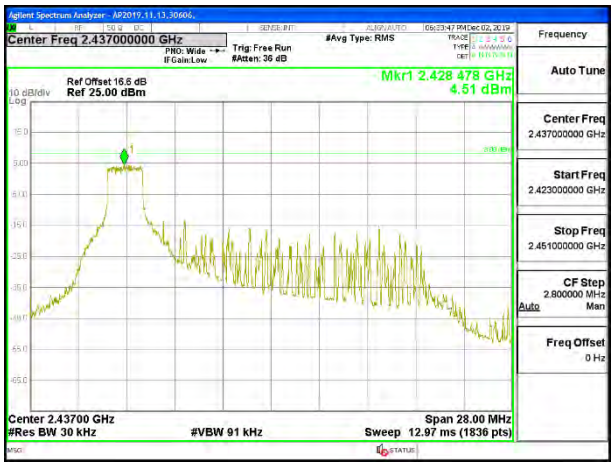
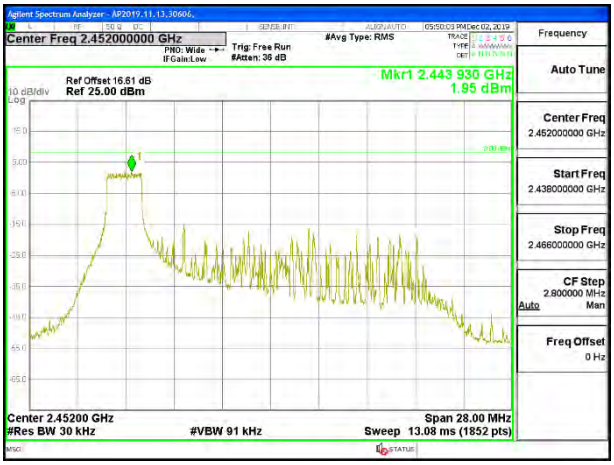
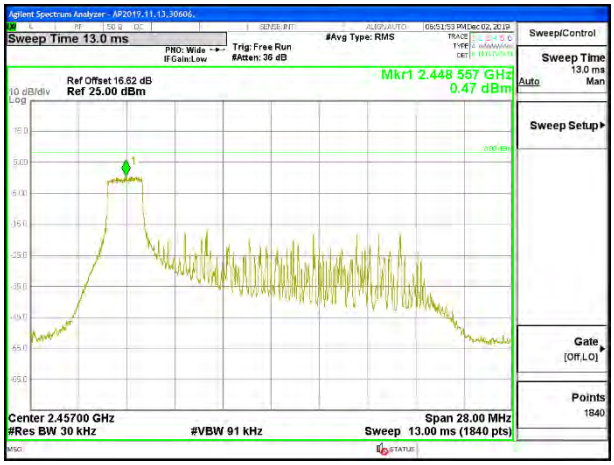


MID CHANNEL 6



HIGH CHANNEL 9



HIGH CHANNEL 10

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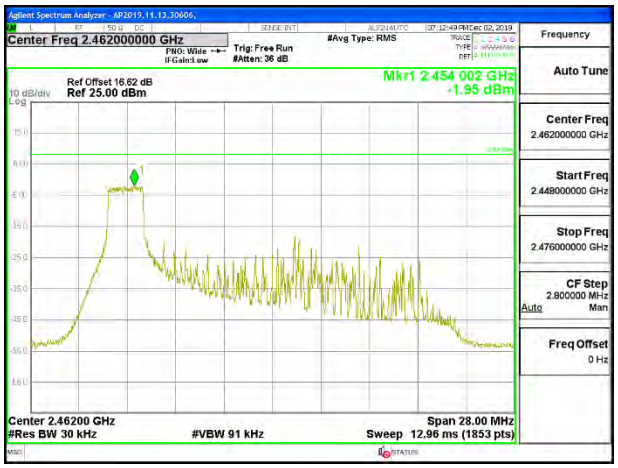

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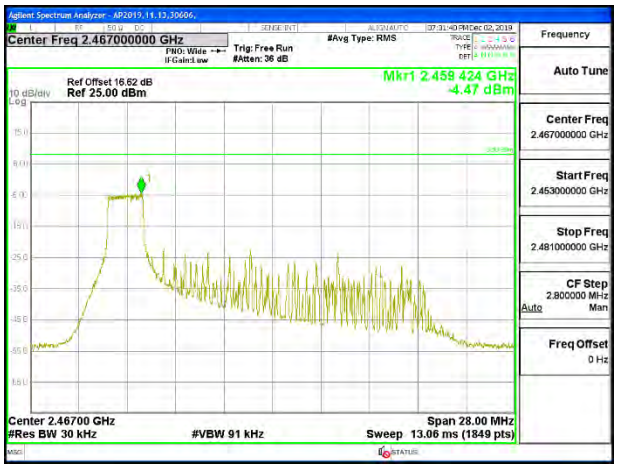
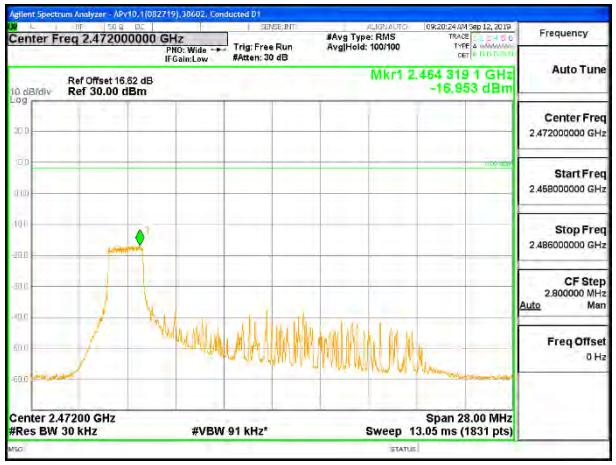


HIGH CHANNEL 12



HIGH CHANNEL 13

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

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	-1.89	-1.89	8.0	-9.9
Low 2	2417	0.52	0.52	8.0	-7.5
Low 3	2422	2.03	2.03	8.0	-6.0
Mid 6	2437	4.52	4.52	8.0	-3.5
High 9	2452	2.04	2.04	8.0	-6.0
High 10	2457	0.49	0.49	8.0	-7.5
High 11	2462	-1.99	-1.99	8.0	-10.0
High 12	2467	-4.46	-4.46	8.0	-12.5
High 13	2472	-17.02	-17.02	8.0	-25.0

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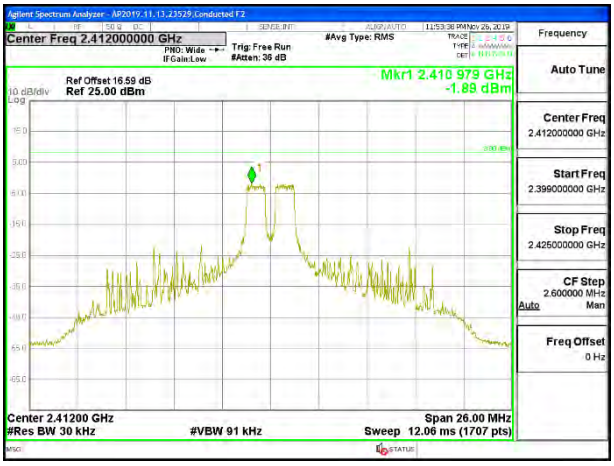
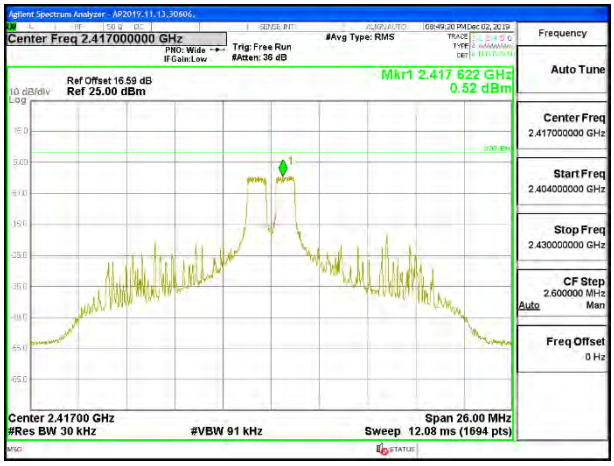
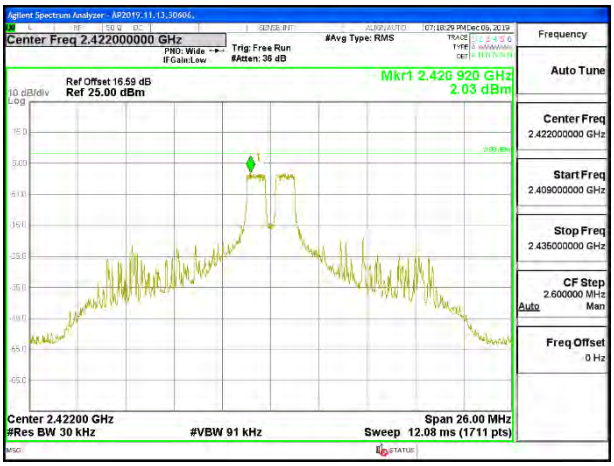


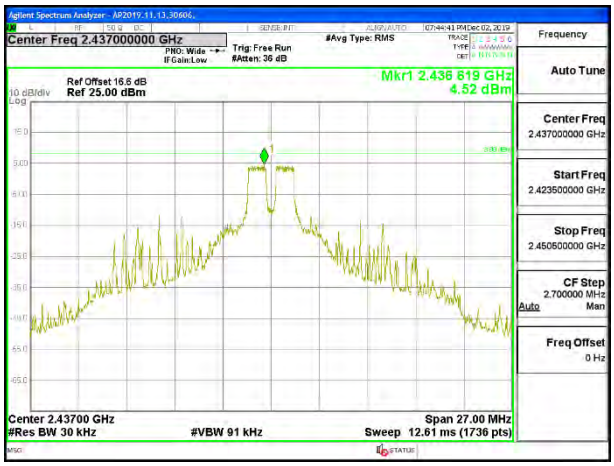
LOW CHANNEL 1



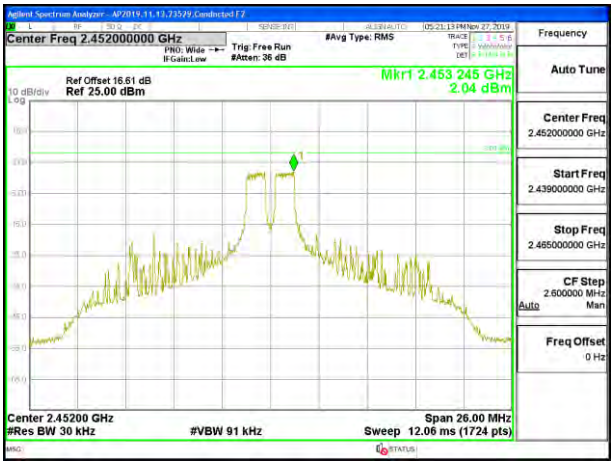
LOW CHANNEL 2



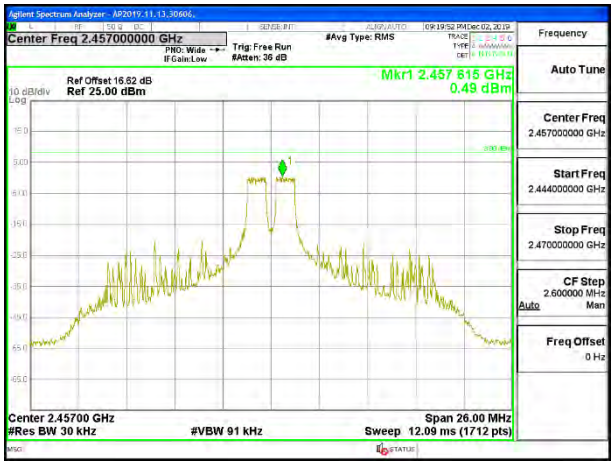
LOW CHANNEL 3



MID CHANNEL 6



HIGH CHANNEL 9



HIGH CHANNEL 10

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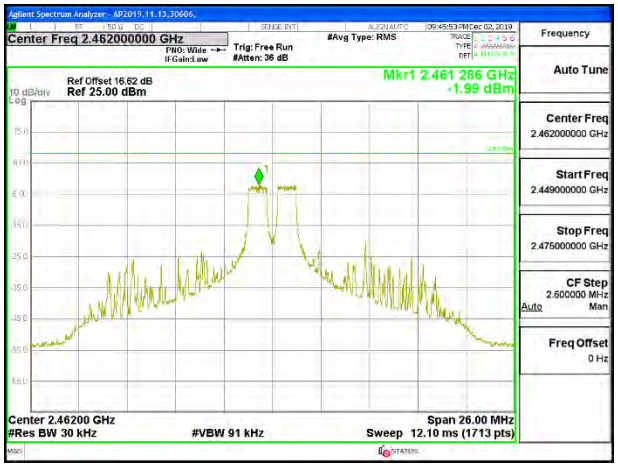

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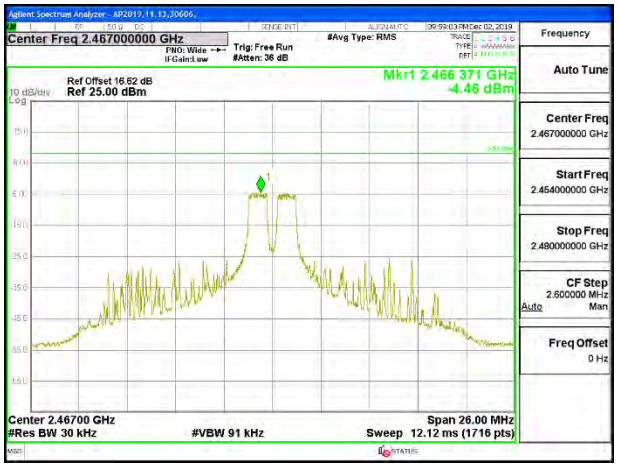
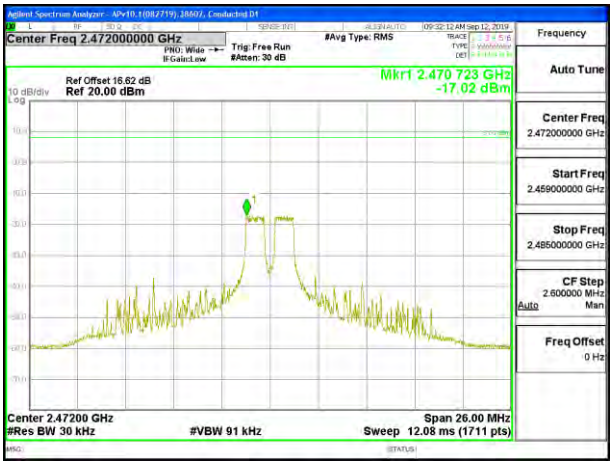


HIGH CHANNEL 12



HIGH CHANNEL 13

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

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	-2.00	-2.00	8.0	-10.0
Low 2	2417	0.52	0.52	8.0	-7.5
Low 3	2422	2.06	2.06	8.0	-5.9
Mid 6	2437	4.58	4.58	8.0	-3.4
High 9	2452	2.06	2.06	8.0	-5.9
High 10	2457	0.47	0.47	8.0	-7.5
High 11	2462	-2.01	-2.01	8.0	-10.0
High 12	2467	-4.49	-4.49	8.0	-12.5
High 13	2472	-17.19	-17.19	8.0	-25.2

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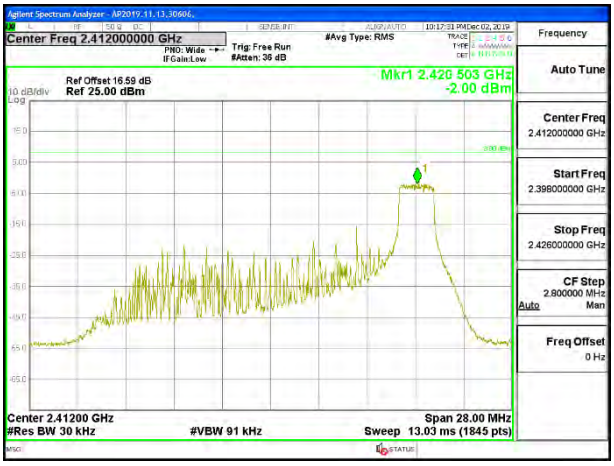
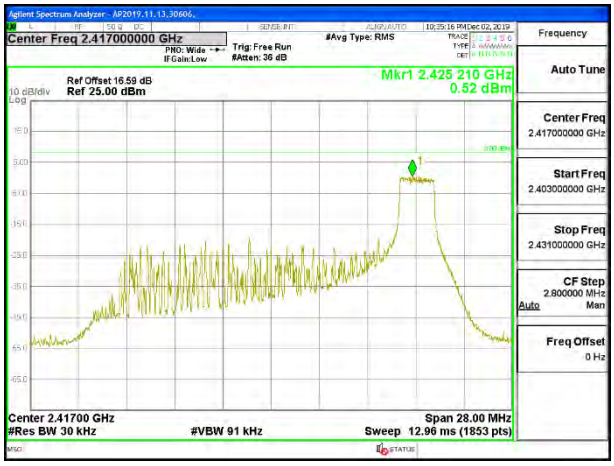
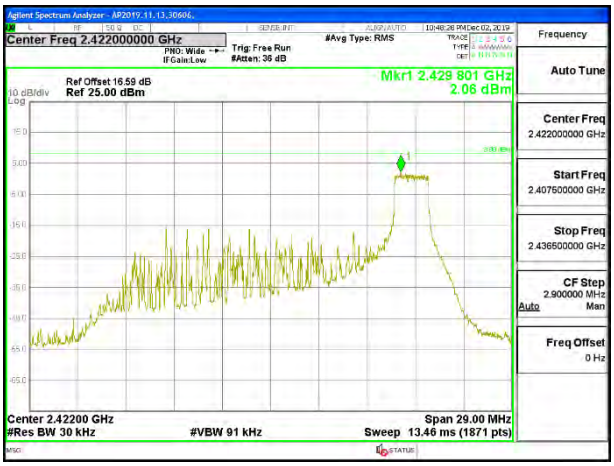


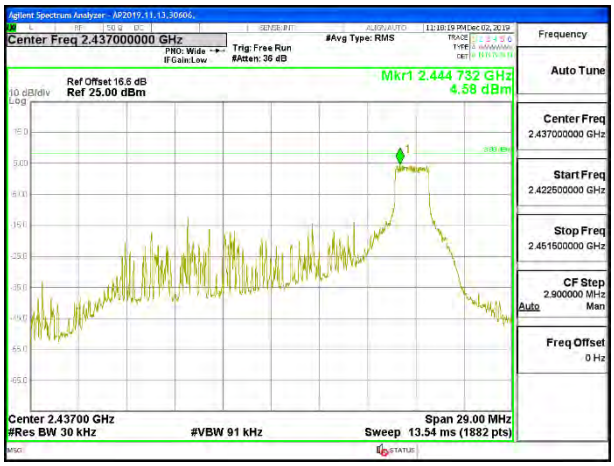
LOW CHANNEL 1



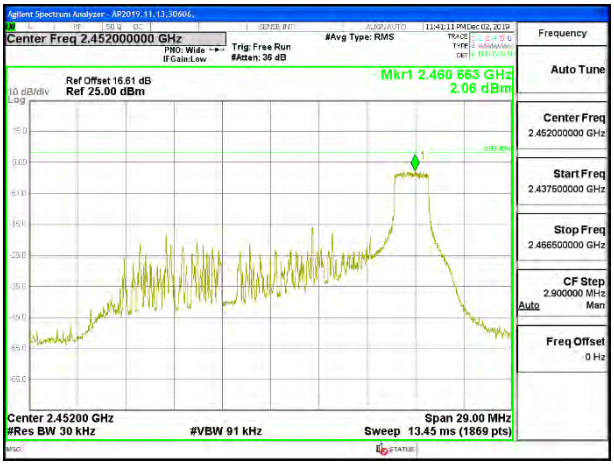
LOW CHANNEL 2



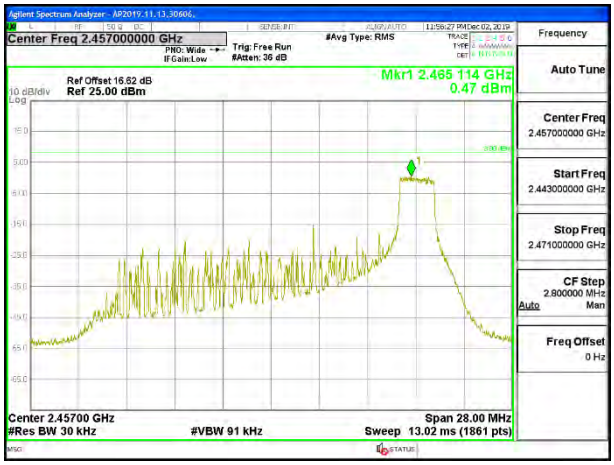
LOW CHANNEL 3



MID CHANNEL 6



HIGH CHANNEL 9



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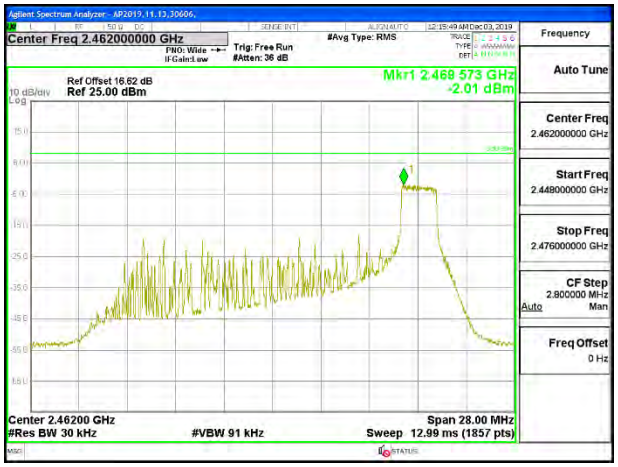

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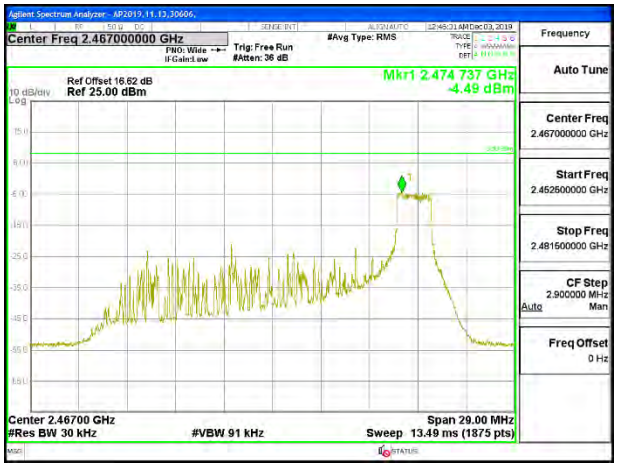
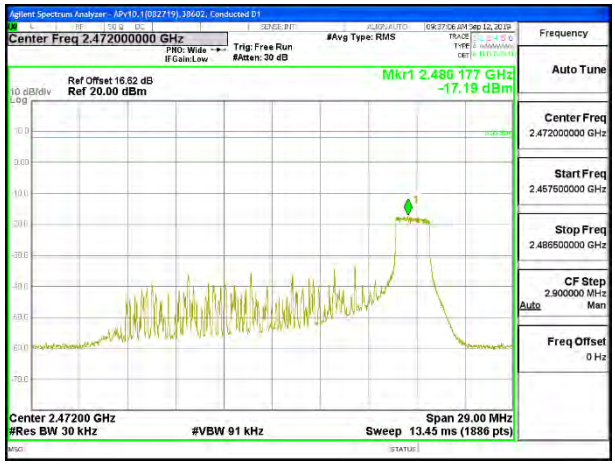


HIGH CHANNEL 12



HIGH CHANNEL 13

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1TX LAT 3: 242Tones, RU Index 61

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	-9.59	-9.59	8.0	-17.6
Low 2	2417	-6.97	-6.97	8.0	-15.0
Low 3	2422	-5.48	-5.48	8.0	-13.5
Mid 6	2437	-2.99	-2.99	8.0	-11.0
High 9	2452	-5.55	-5.55	8.0	-13.6
High 10	2457	-7.15	-7.15	8.0	-15.2
High 11	2462	-9.56	-9.56	8.0	-17.6
High 12	2467	-12.00	-12.00	8.0	-20.0
High 13	2472	-21.41	-21.41	8.0	-29.4

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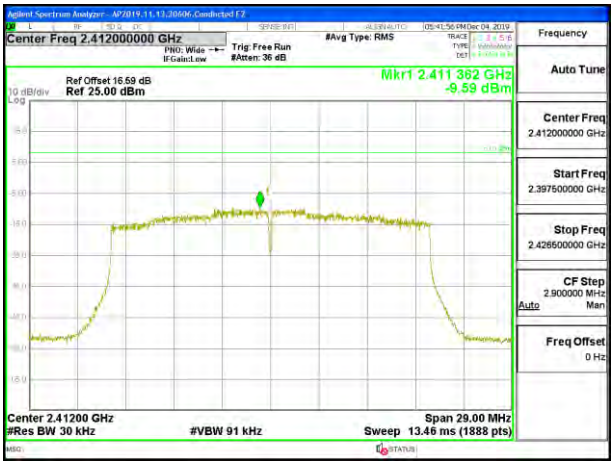

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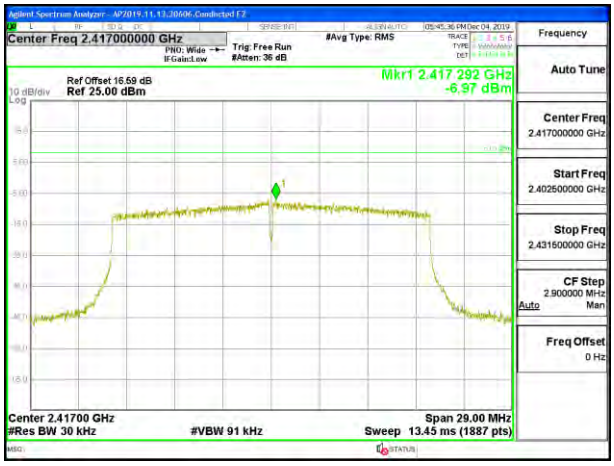
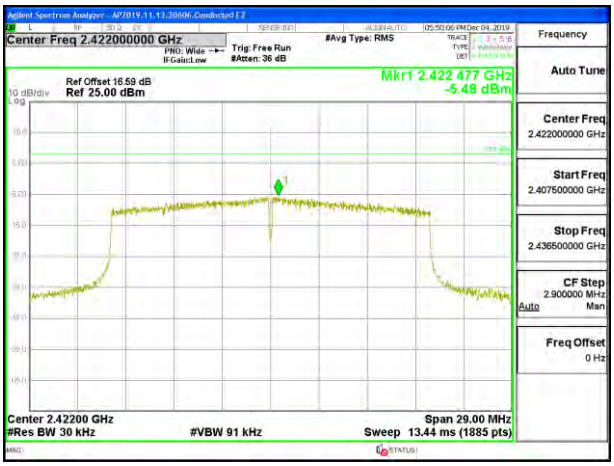
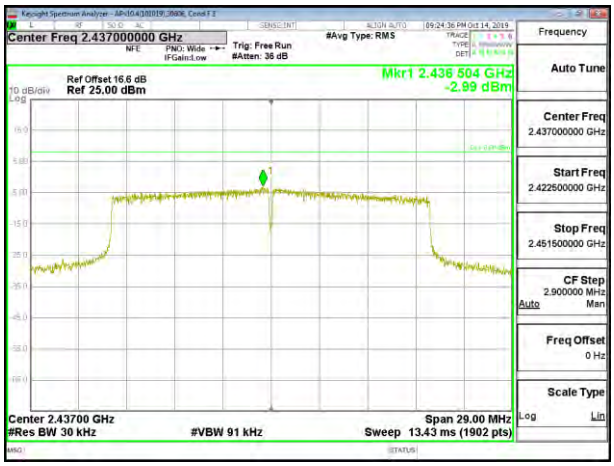


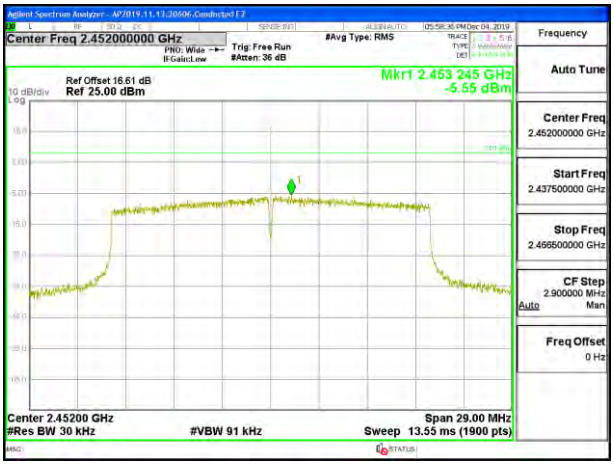
LOW CHANNEL 2



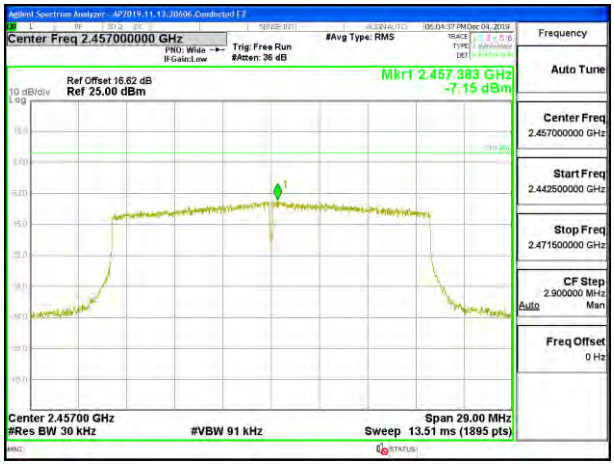
LOW CHANNEL 3



MID CHANNEL 6



HIGH CHANNEL 9



HIGH CHANNEL 10

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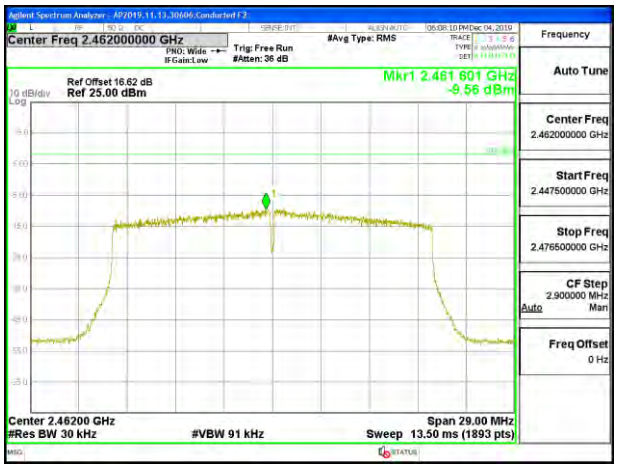
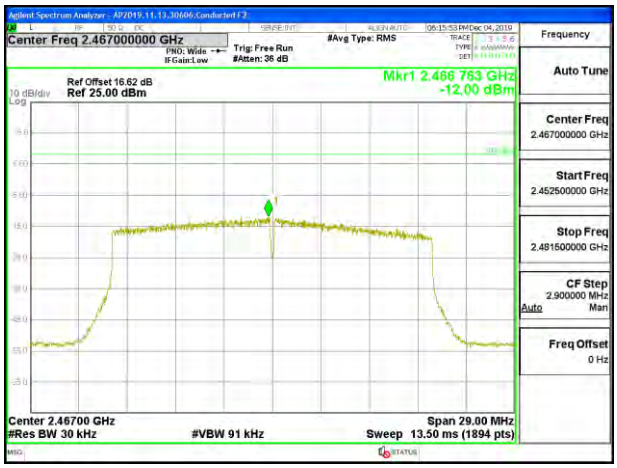
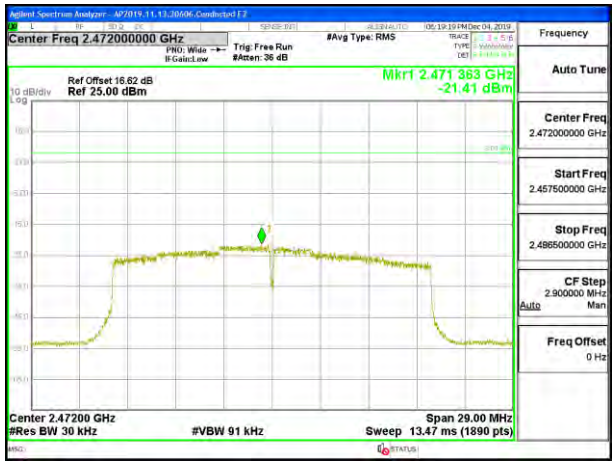


HIGH CHANNEL 11



HIGH CHANNEL 12



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8.5.4. 802.11ax HE20 OFDMA MODE 2TX

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

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	-3.030	-3.050	-0.03	8.0	-8.0
Low 2	2417	-0.510	-0.540	2.49	8.0	-5.5
Low 3	2422	-0.160	-0.020	2.92	8.0	-5.1
Low 4	2427	2.000	2.070	5.05	8.0	-3.0
Mid 6	2437	2.970	3.130	6.06	8.0	-1.9
High 9	2452	0.000	0.020	3.02	8.0	-5.0
High 10	2457	-0.510	-0.490	2.51	8.0	-5.5
High 11	2462	-3.020	-3.000	0.00	8.0	-8.0
High 12	2467	-5.560	-5.400	-2.47	8.0	-10.5
High 13	2472	-17.180	-16.860	-14.01	8.0	-22.0

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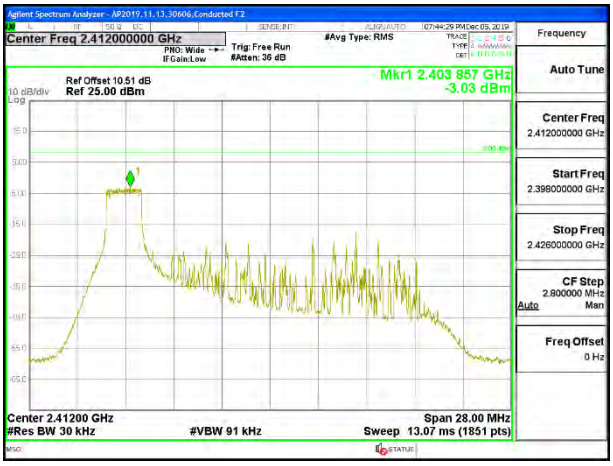
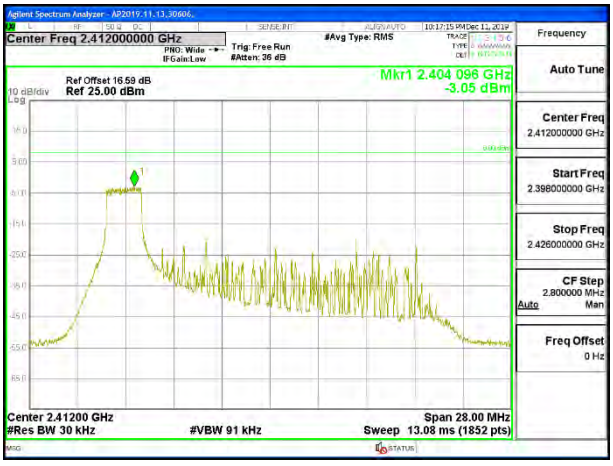
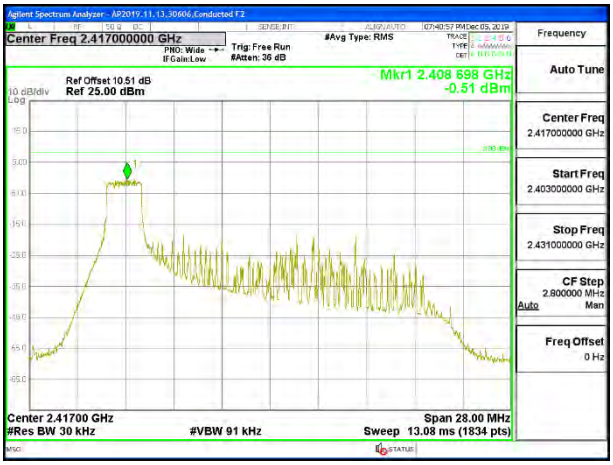


LOW CHANNEL 1 UAT 1



LOW CHANNEL 1 LAT 3



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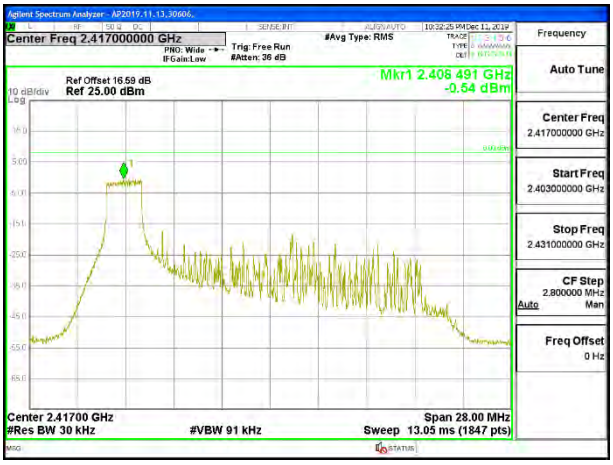

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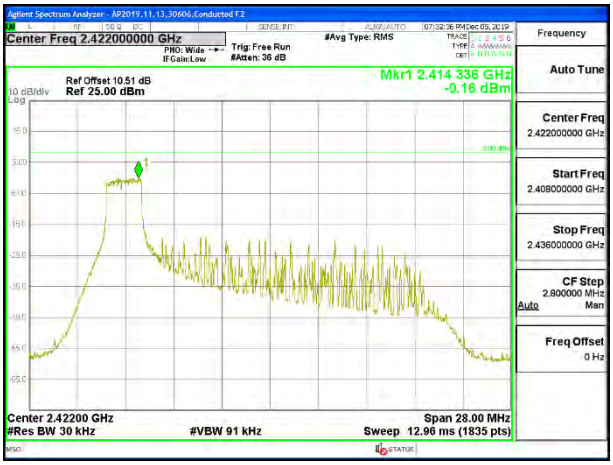
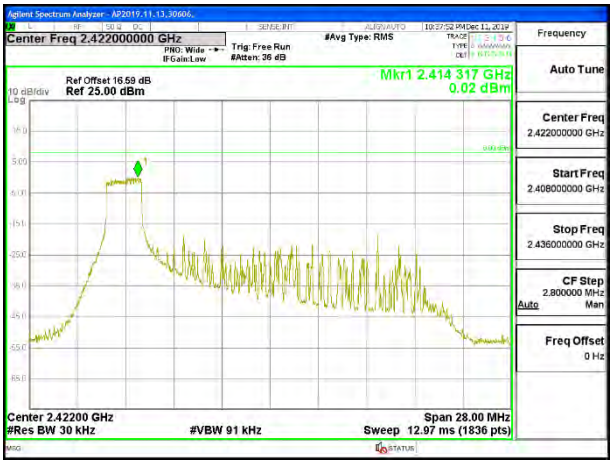


LOW CHANNEL 3 UAT 1



LOW CHANNEL 3 LAT 3

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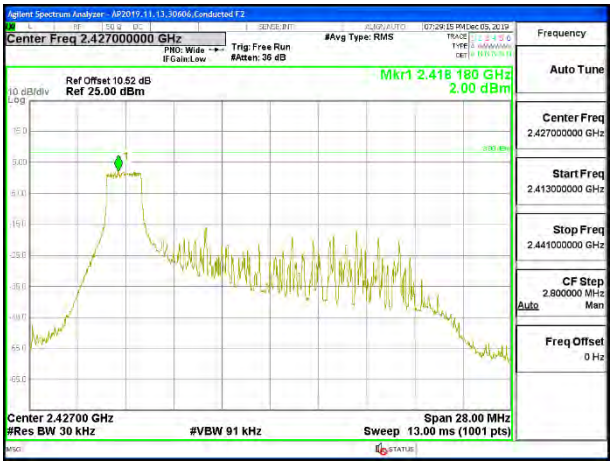

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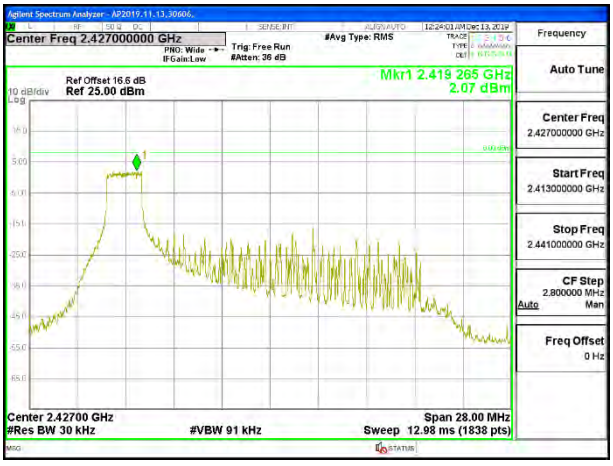
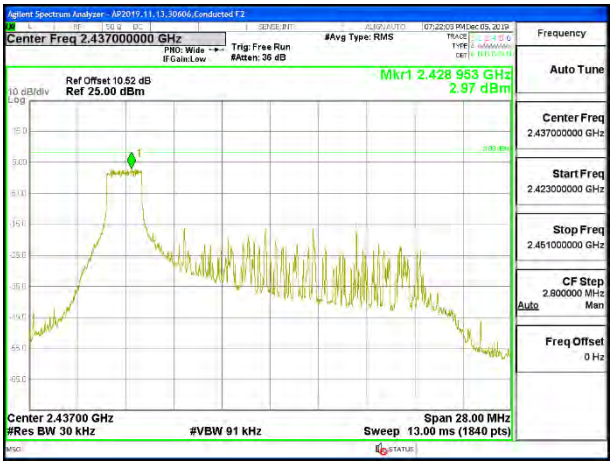
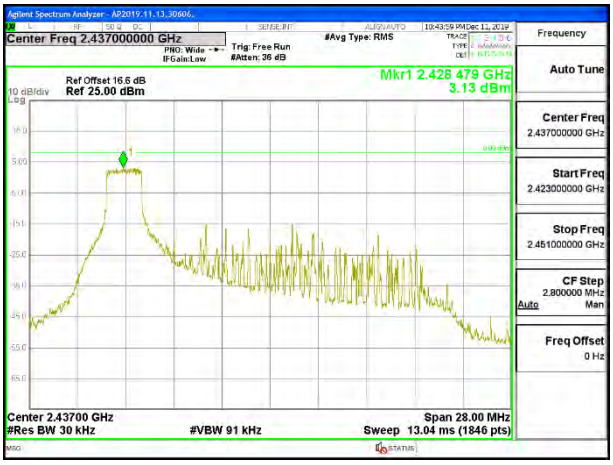


LOW CHANNEL 4 LAT 3



MID CHANNEL 6 UAT 1



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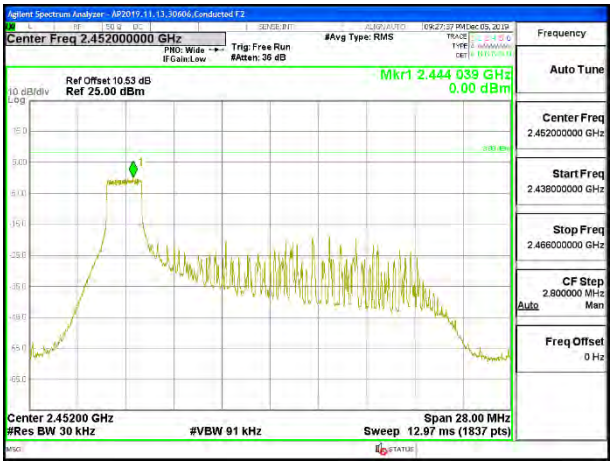

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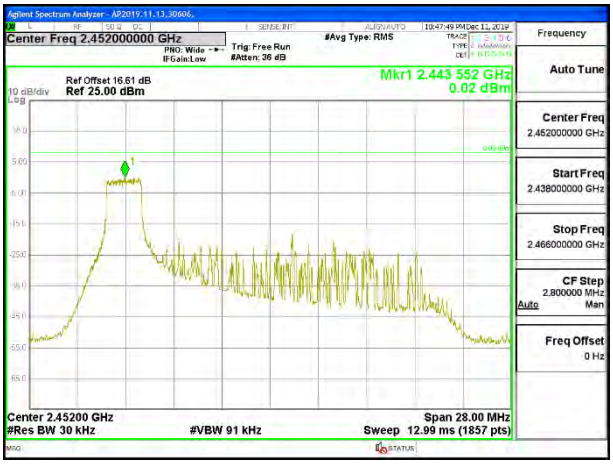

HIGH CHANNEL 9 LAT 3

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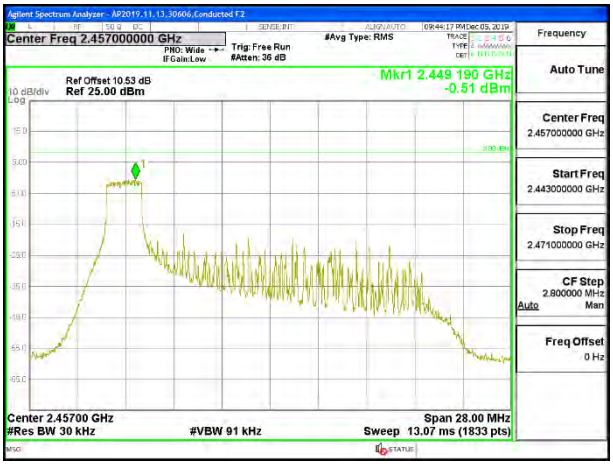

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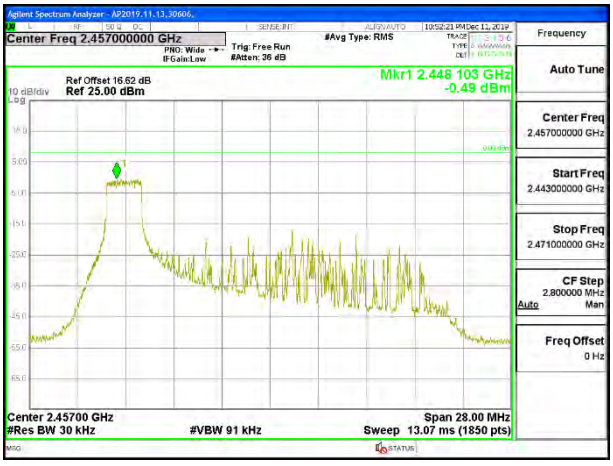
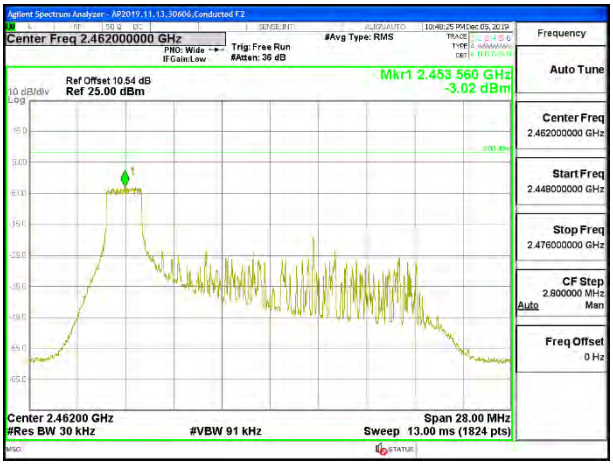


HIGH CHANNEL 10 LAT 3



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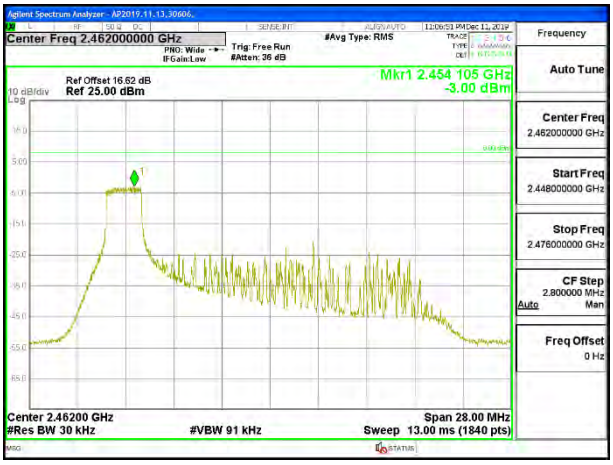
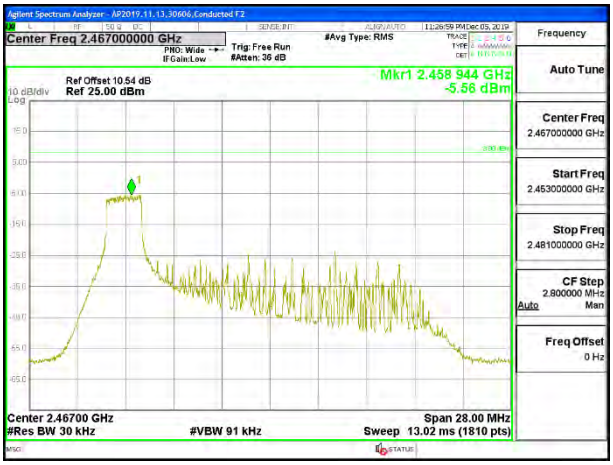
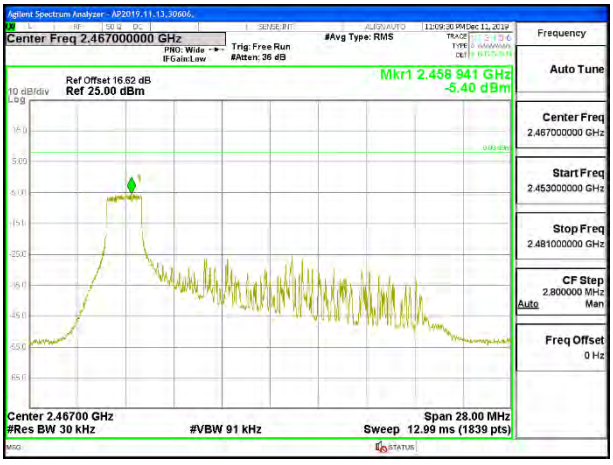


HIGH CHANNEL 11 LAT 3



HIGH CHANNEL 12 UAT 1



HIGH CHANNEL 12 LAT 3

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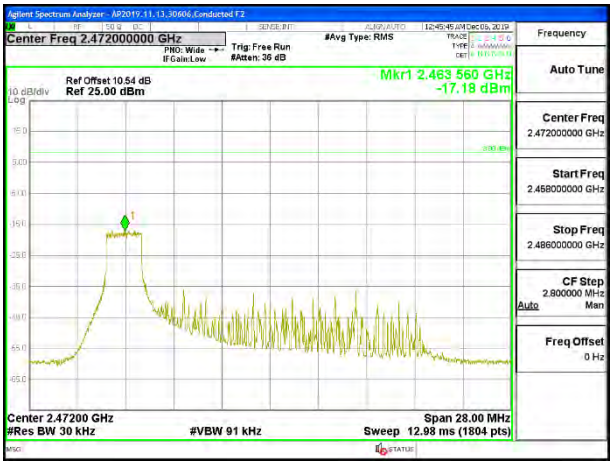

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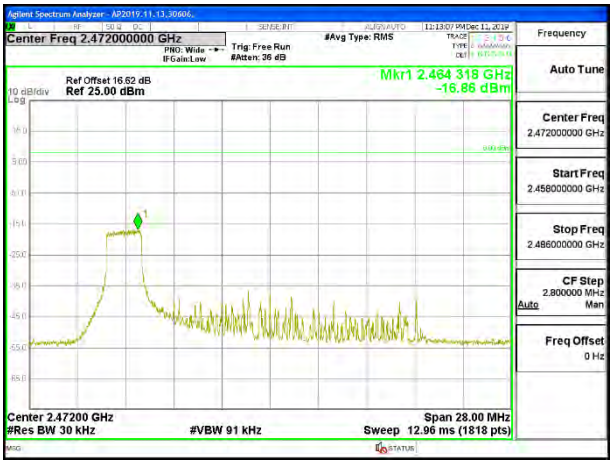

HIGH CHANNEL 13 LAT 3

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

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	-3.00	-2.95	0.04	8.0	-8.0
Low 2	2417	-0.51	-0.52	2.50	8.0	-5.5
Low 3	2422	0.03	0.05	3.05	8.0	-4.9
Low 4	2427	2.11	1.96	5.05	8.0	-3.0
Mid 6	2437	3.00	3.04	6.03	8.0	-2.0
High 9	2452	-0.03	0.04	3.02	8.0	-5.0
High 10	2457	-0.54	-0.48	2.50	8.0	-5.5
High 11	2462	-2.95	-2.94	0.07	8.0	-7.9
High 12	2467	-5.52	-5.59	-2.54	8.0	-10.5
High 13	2472	-16.94	-16.92	-13.92	8.0	-21.9

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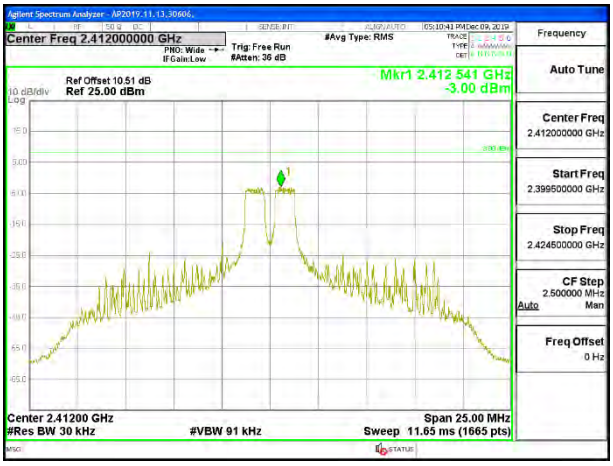
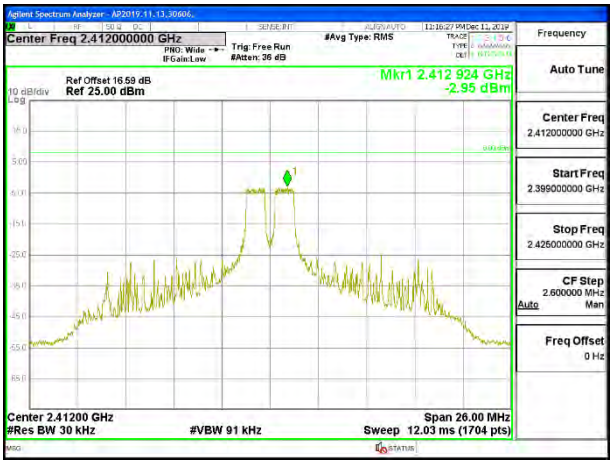
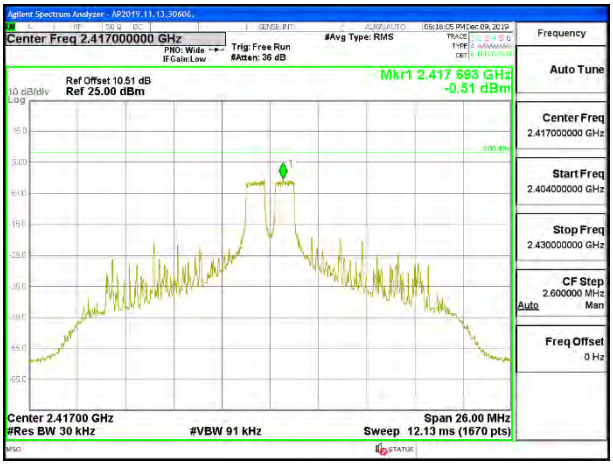


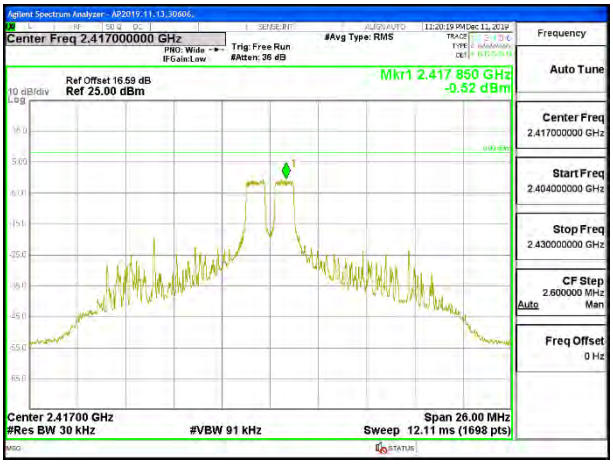
LOW CHANNEL 1 UAT 1



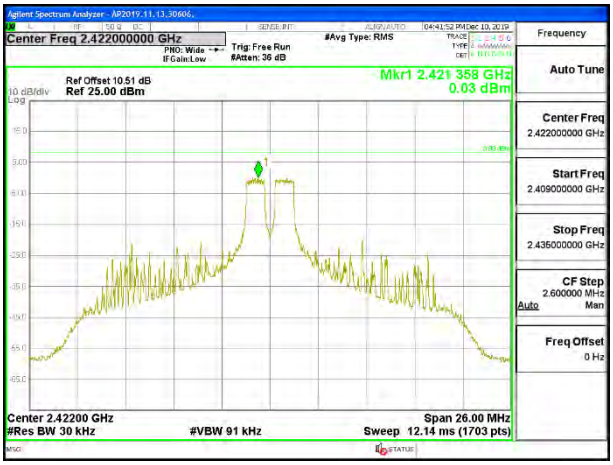
LOW CHANNEL 1 LAT 3



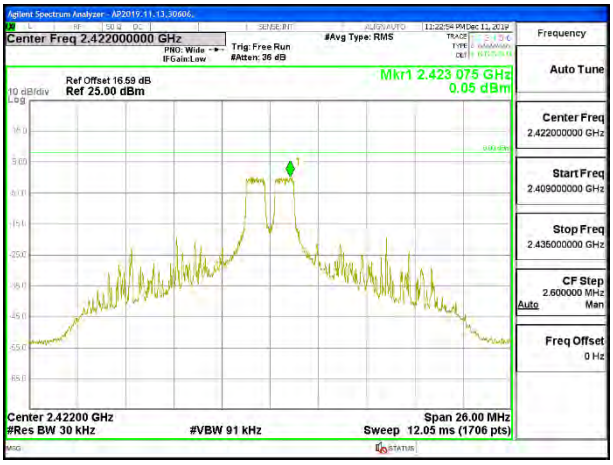
LOW CHANNEL 2 UAT 1



LOW CHANNEL 2 LAT 3



LOW CHANNEL 3 UAT 1



LOW CHANNEL 3 LAT 3

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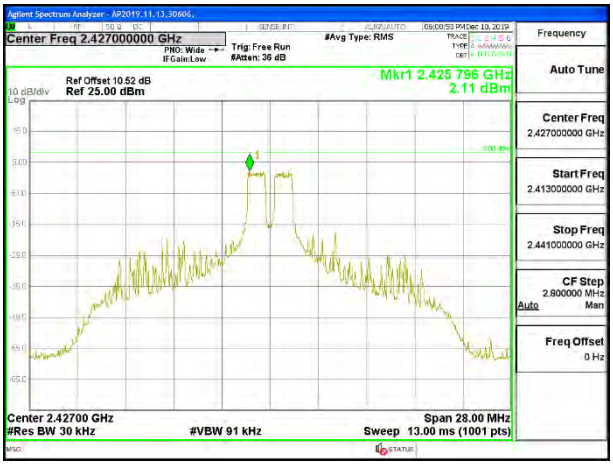
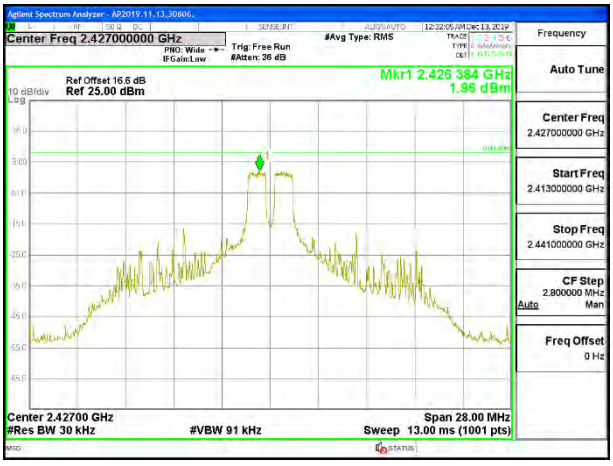
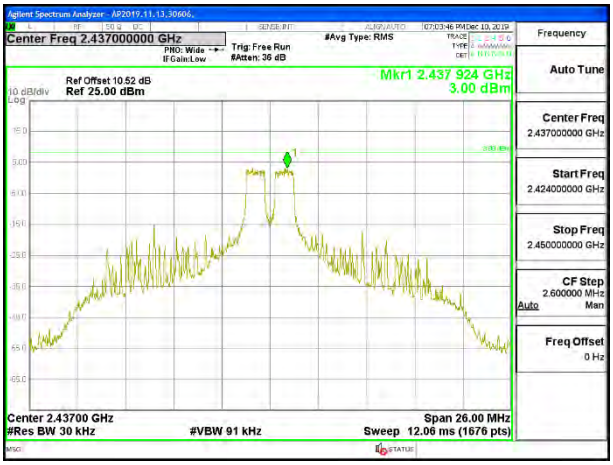


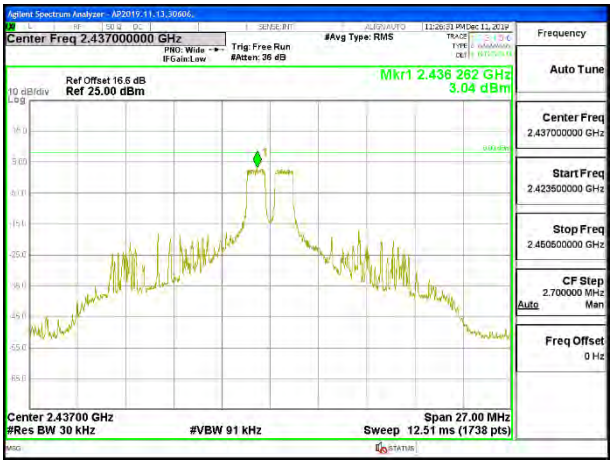
LOW CHANNEL 4 UAT 1



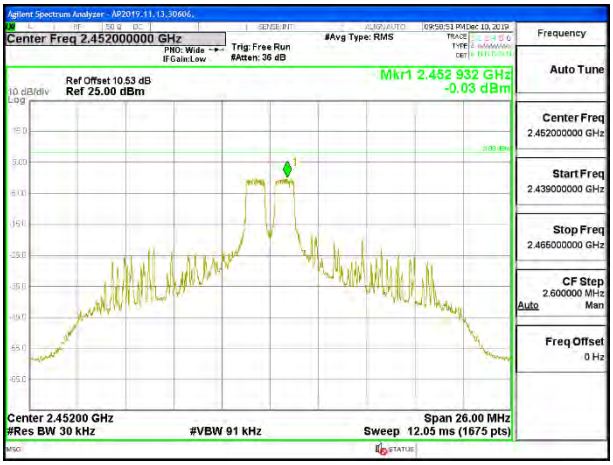
LOW CHANNEL 4 LAT 3



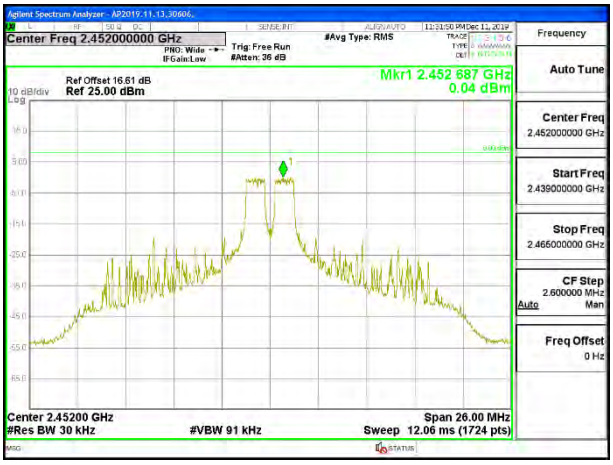
MID CHANNEL 6 UAT 1



MID CHANNEL 6 LAT 3



HIGH CHANNEL 9 UAT 1



HIGH CHANNEL 9 LAT 3

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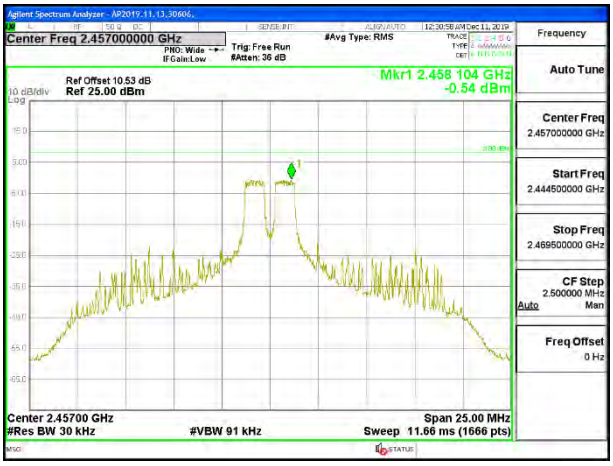

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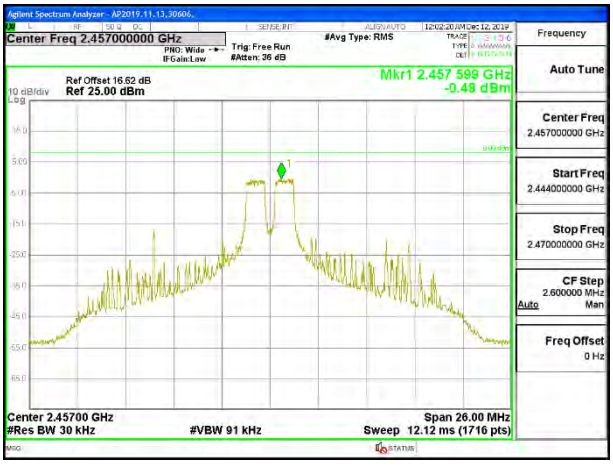
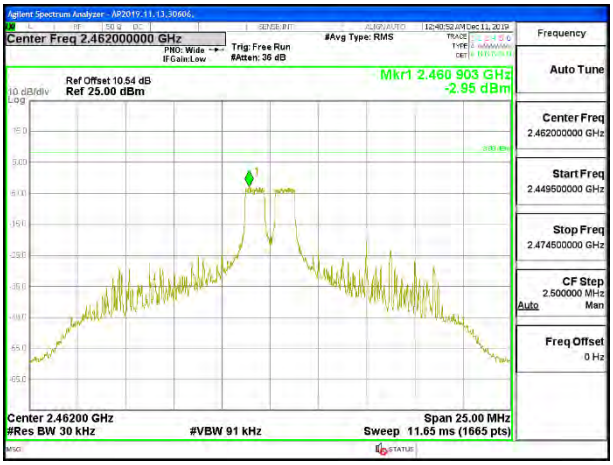
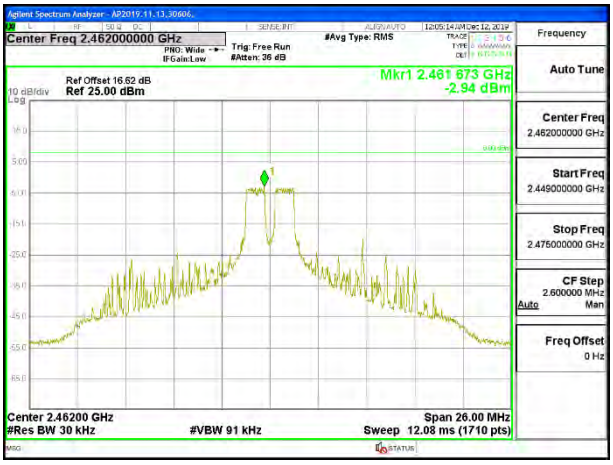


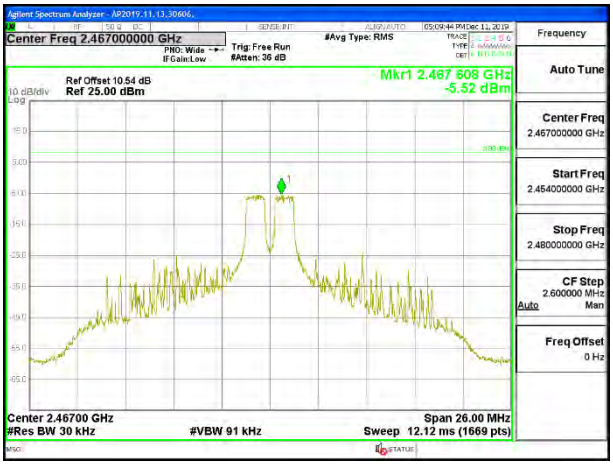
HIGH CHANNEL 10 LAT 3



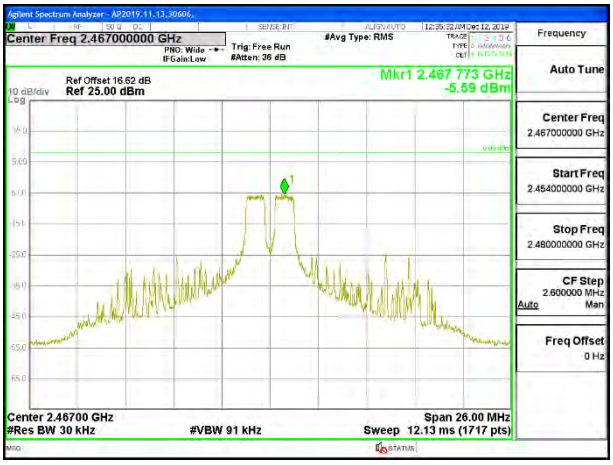
HIGH CHANNEL 11 UAT 1



HIGH CHANNEL 11 LAT 3



HIGH CHANNEL 12 UAT 1



HIGH CHANNEL 12 LAT 3

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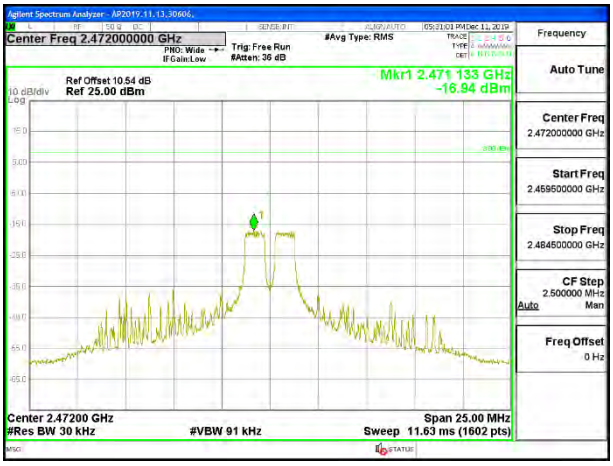

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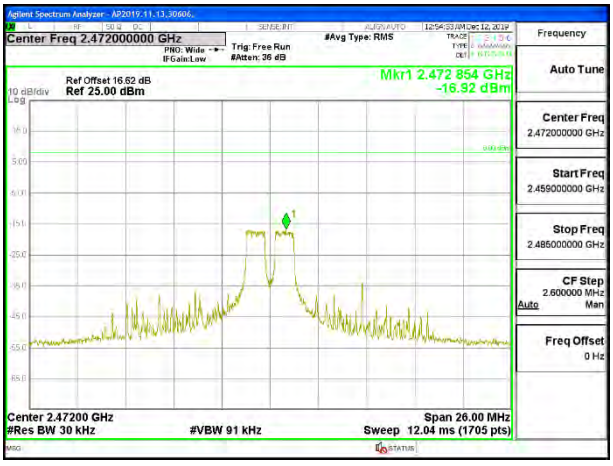

HIGH CHANNEL 13 LAT 3

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

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	-2.89	-3.06	0.04	8.0	-8.0
Low 2	2417	-0.48	-0.49	2.53	8.0	-5.5
Low 3	2422	0.10	0.01	3.07	8.0	-4.9
Low 4	2427	3.00	2.94	5.98	8.0	-2.0
Mid 6	2437	2.98	2.97	5.99	8.0	-2.0
High 9	2452	0.04	0.09	3.08	8.0	-4.9
High 10	2457	-0.51	-0.59	2.46	8.0	-5.5
High 11	2462	-2.94	-3.06	0.01	8.0	-8.0
High 12	2467	-5.49	-5.48	-2.47	8.0	-10.5
High 13	2472	-17.08	-17.17	-14.11	8.0	-22.1

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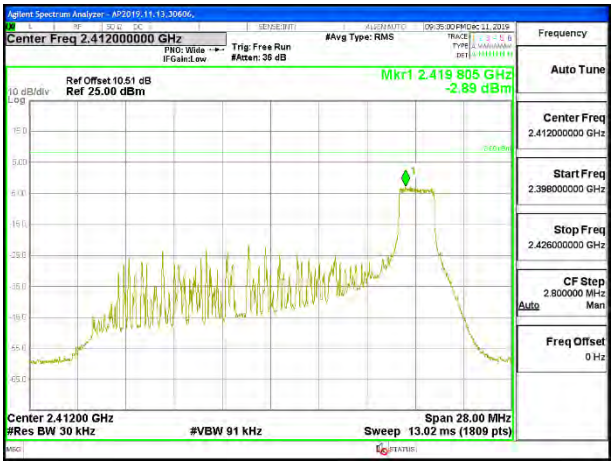
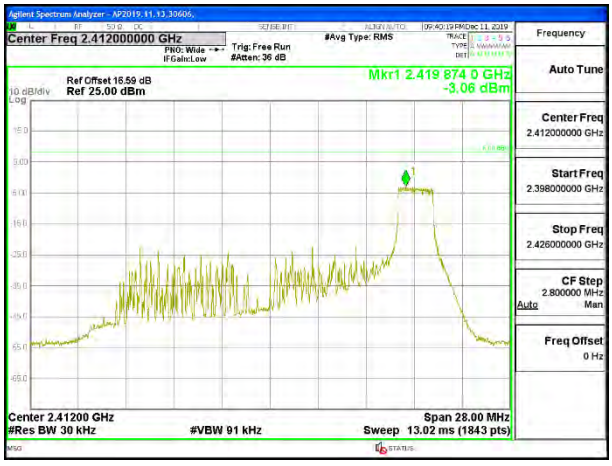
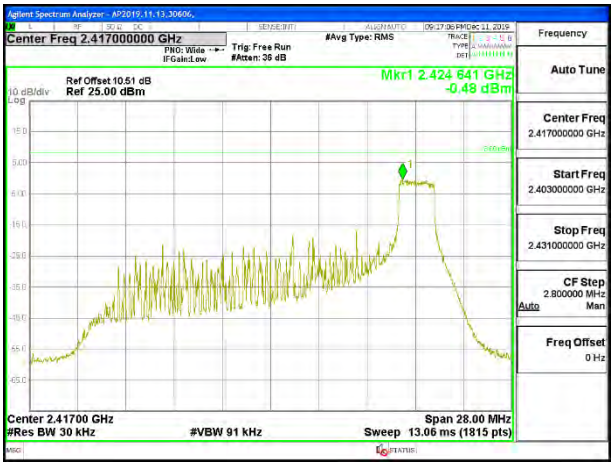


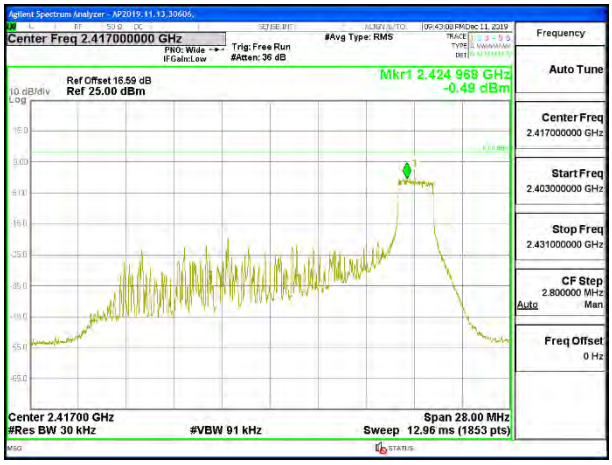
LOW CHANNEL 1 UAT 1



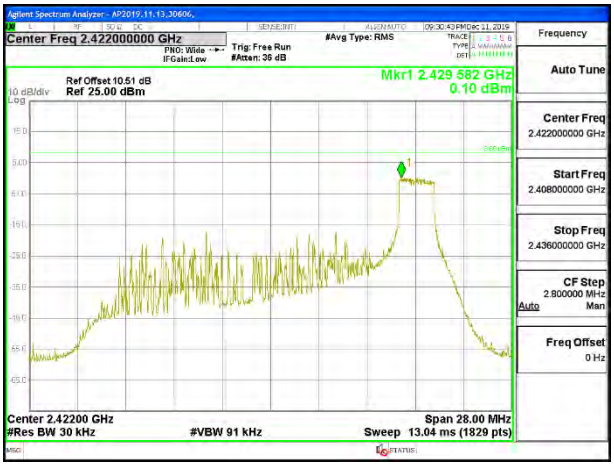
LOW CHANNEL 1 LAT 3



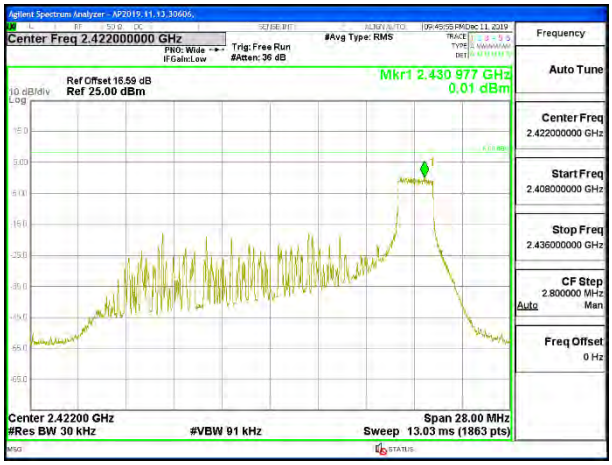
LOW CHANNEL 2 UAT 1



LOW CHANNEL 2 LAT 3



LOW CHANNEL 3 UAT 1



LOW CHANNEL 3 LAT 3

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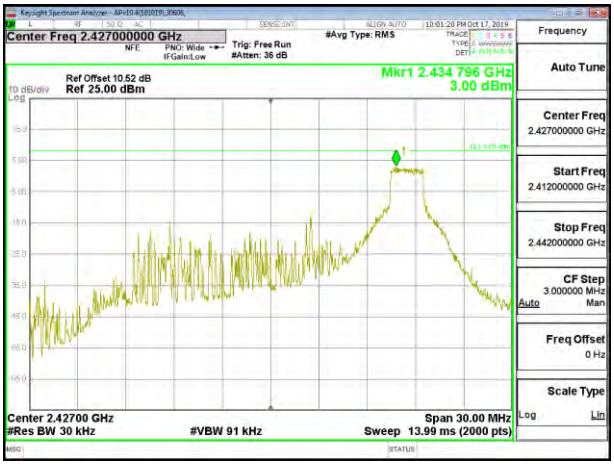
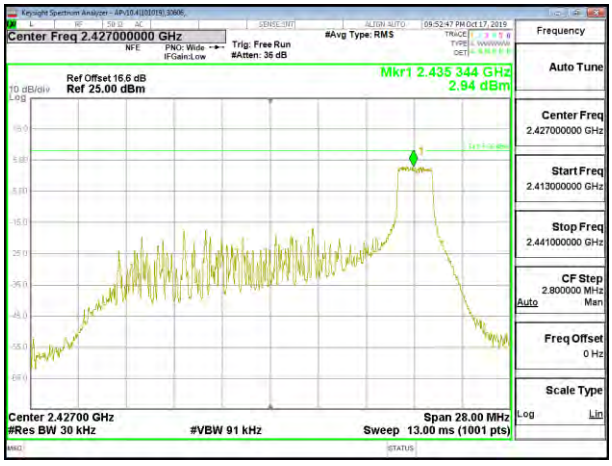
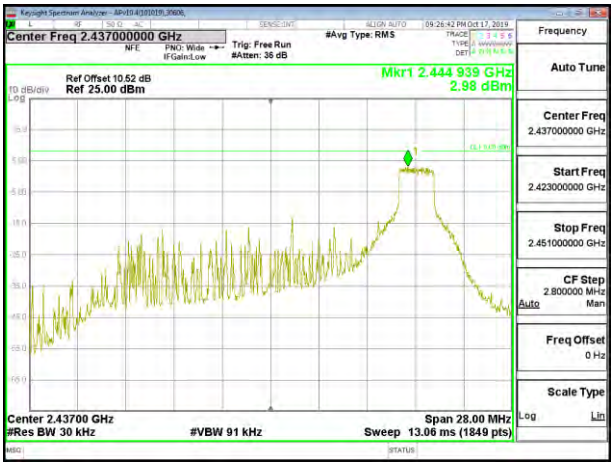


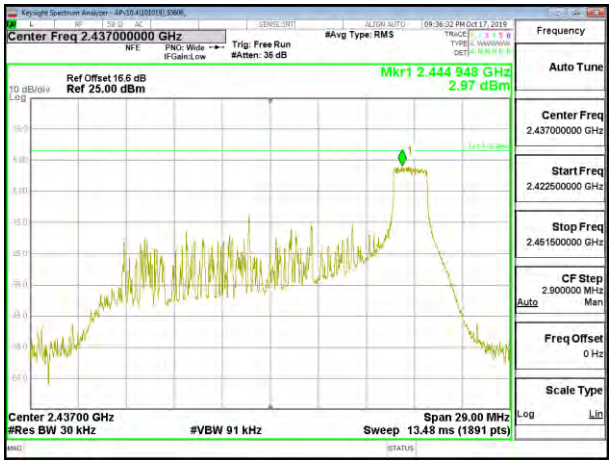
LOW CHANNEL 4 UAT 1



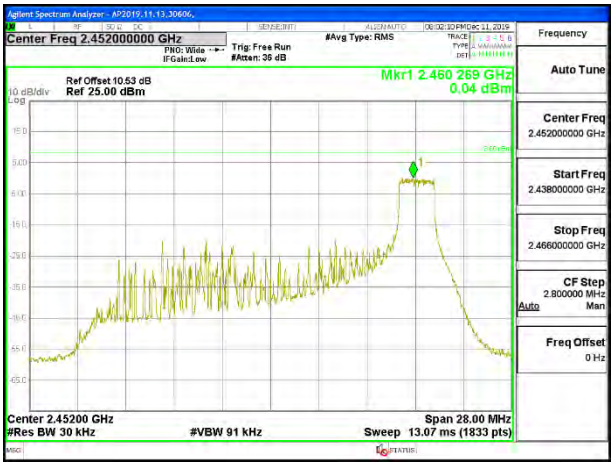
LOW CHANNEL 4 LAT 3



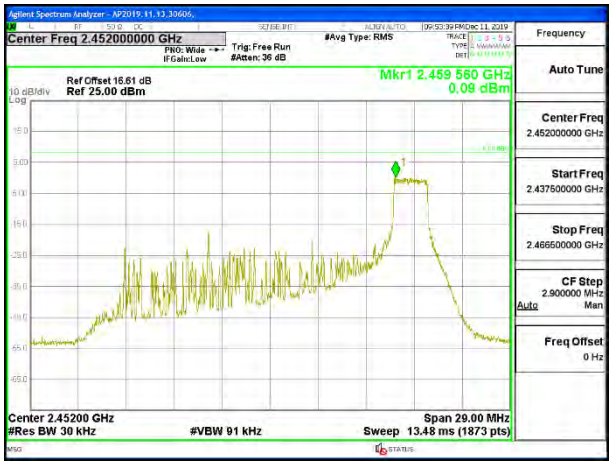
MID CHANNEL 6 UAT 1



MID CHANNEL 6 LAT 3



HIGH CHANNEL 9 UAT 1



HIGH CHANNEL 9 LAT 3

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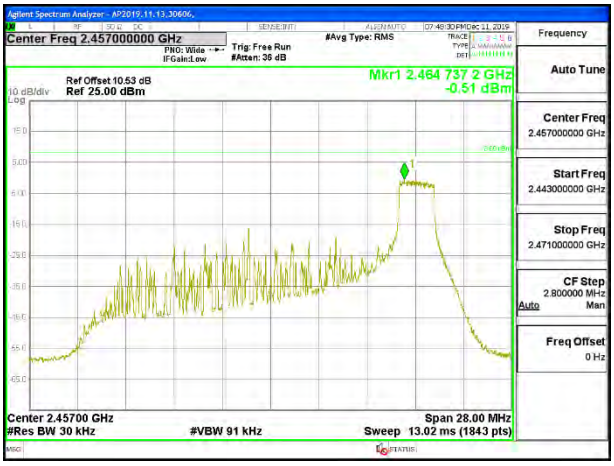
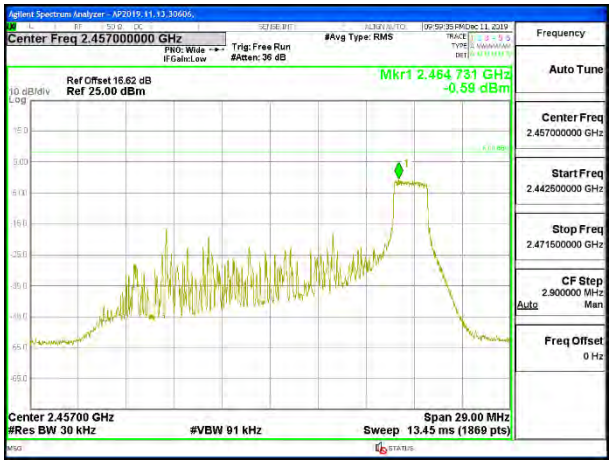
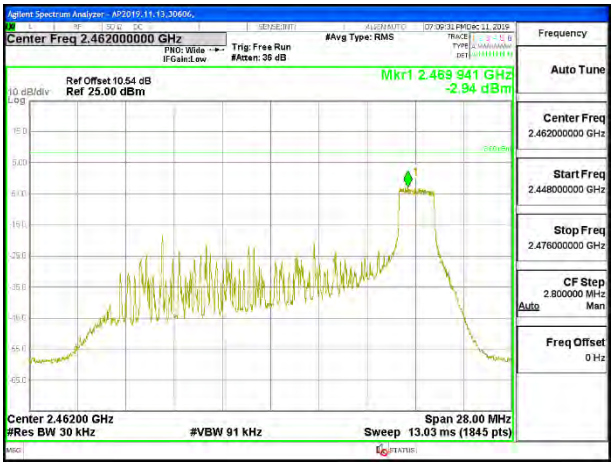


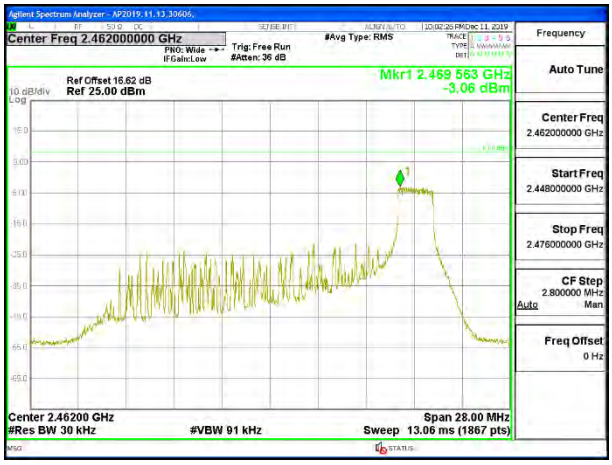
HIGH CHANNEL 10 UAT 1



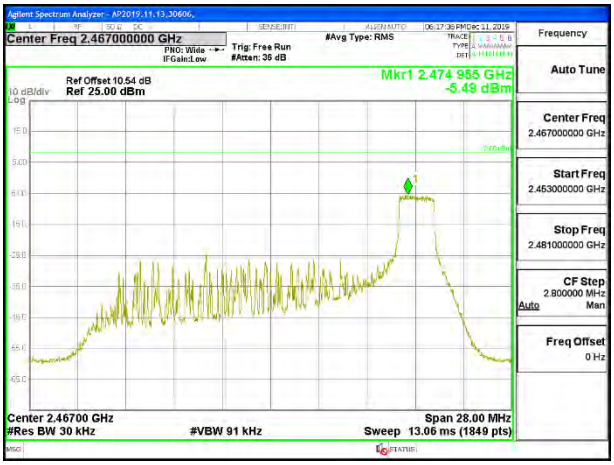
HIGH CHANNEL 10 LAT 3



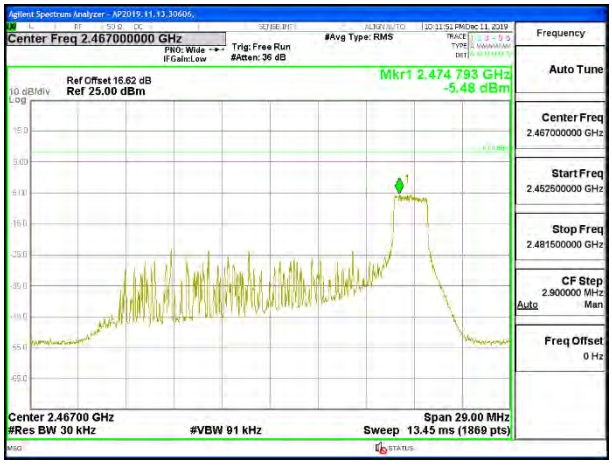
HIGH CHANNEL 11 UAT 1



HIGH CHANNEL 11 LAT 3



HIGH CHANNEL 12 UAT 1



HIGH CHANNEL 12 LAT 3

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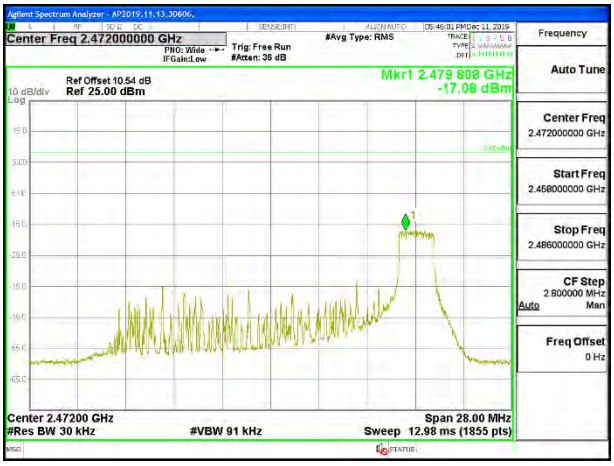
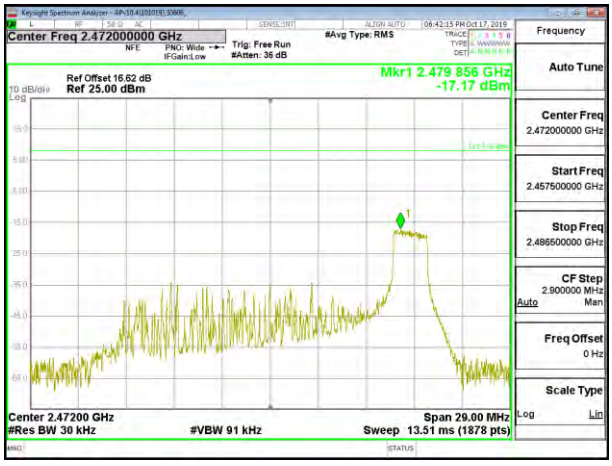


HIGH CHANNEL 13 UAT 1



HIGH CHANNEL 13 LAT 3

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

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	-10.55	-10.51	-7.52	8.0	-15.5
Low 2	2417	-8.07	-8.08	-5.06	8.0	-13.1
Low 3	2422	-7.67	-7.48	-4.56	8.0	-12.6
Low 4	2427	-5.63	-5.54	-2.57	8.0	-10.6
Mid 6	2437	-3.06	-3.18	-0.11	8.0	-8.1
High 8	2447	-5.46	-5.61	-2.52	8.0	-10.5
High 9	2452	-7.53	-7.56	-4.53	8.0	-12.5
High 10	2457	-8.12	-8.16	-5.13	8.0	-13.1
High 11	2462	-10.51	-10.50	-7.49	8.0	-15.5
High 12	2467	-12.95	-13.03	-9.98	8.0	-18.0
High 13	2472	-21.57	-21.68	-18.61	8.0	-26.6

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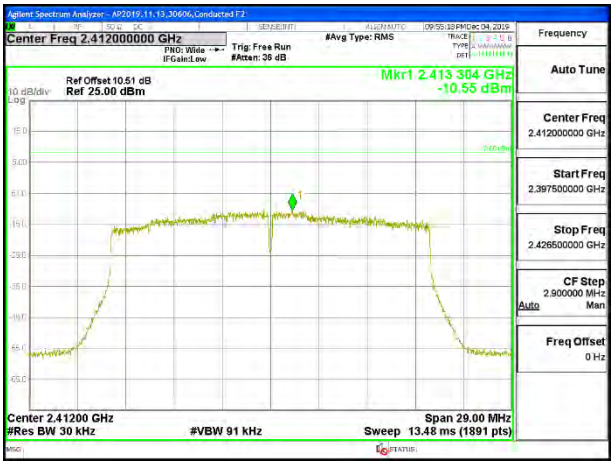
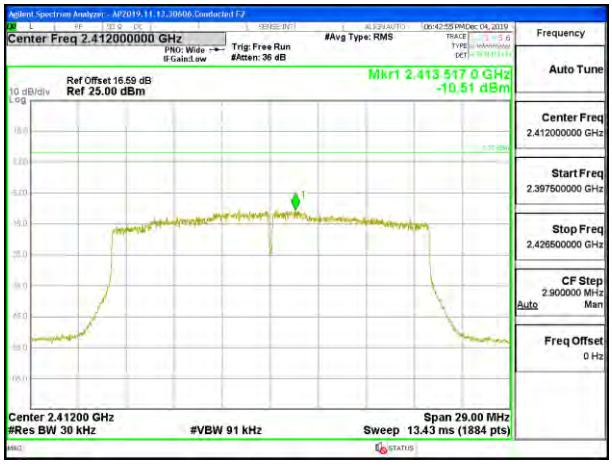
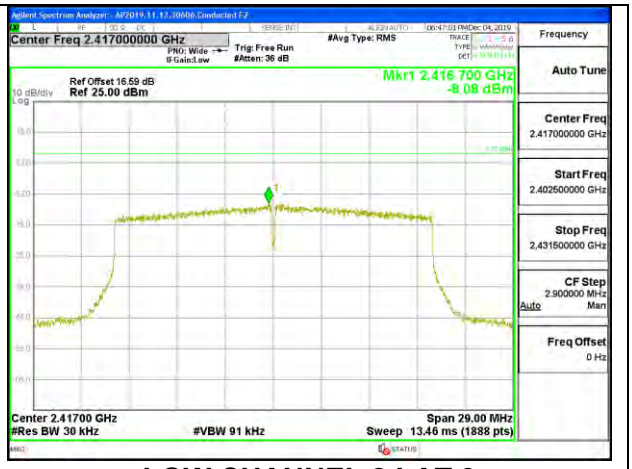


LOW CHANNEL 1 UAT 1

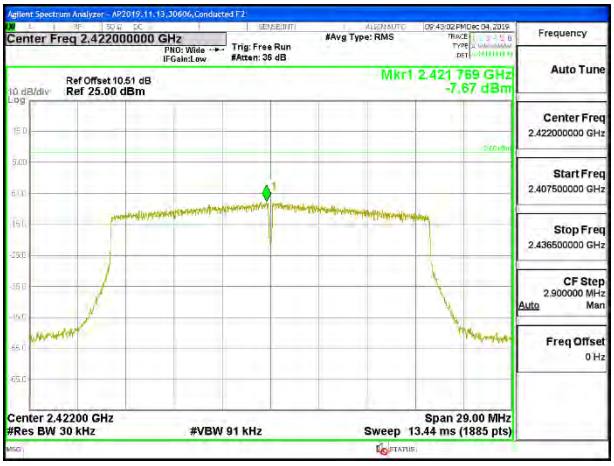


LOW CHANNEL 1 LAT 3

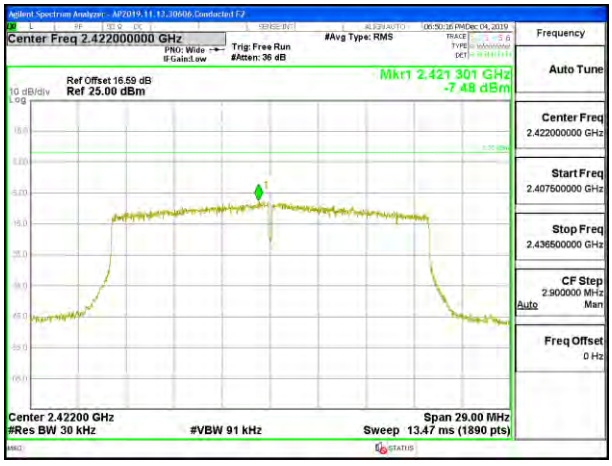
LOW CHANNEL 2 UAT 1



LOW CHANNEL 2 LAT 3



LOW CHANNEL 3 UAT 1



LOW CHANNEL 3 LAT 3

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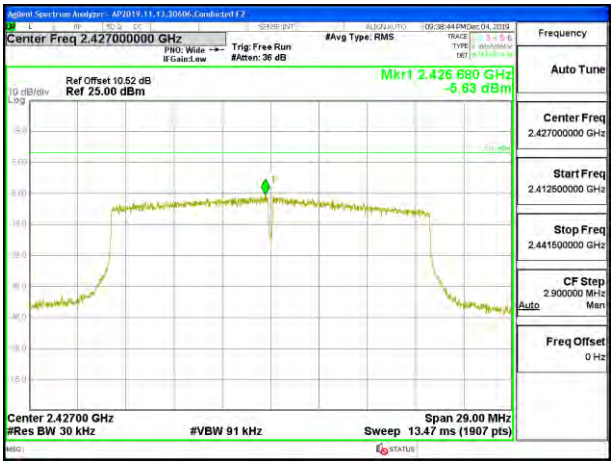
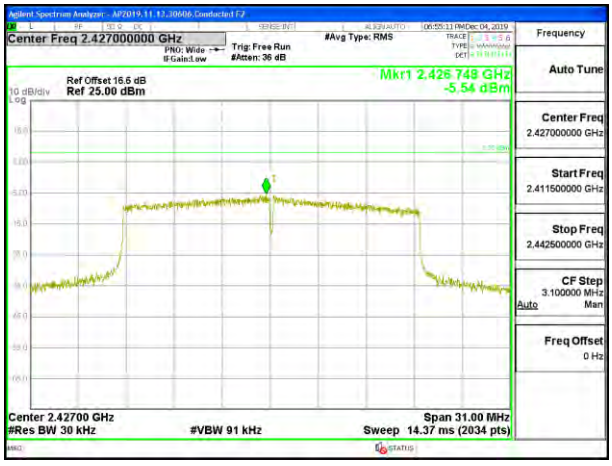
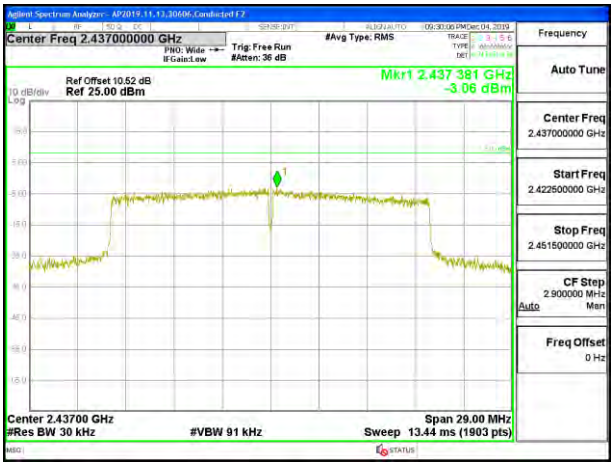


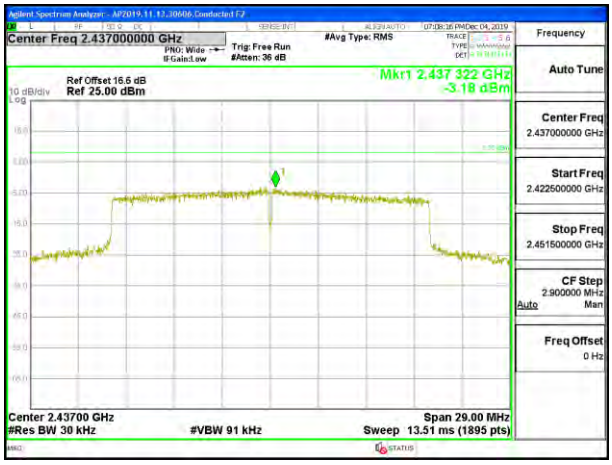
LOW CHANNEL 4 UAT 1



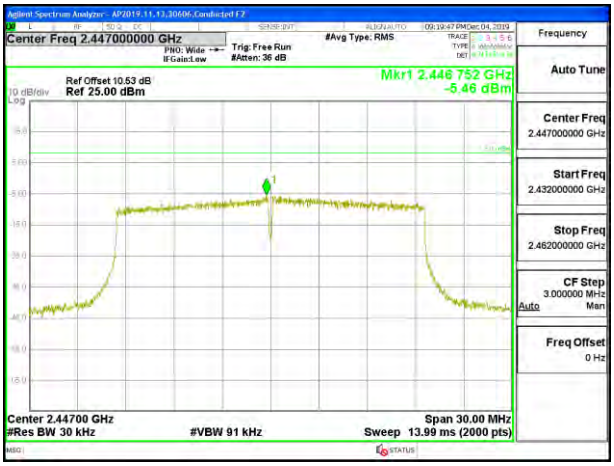
LOW CHANNEL 4 LAT 3



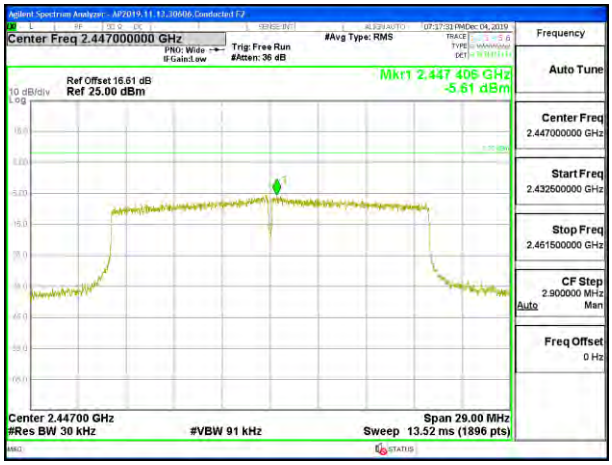
MID CHANNEL 6 UAT 1



MID CHANNEL 6 LAT 3



MID CHANNEL 8 UAT 1



MID CHANNEL 8 LAT 3

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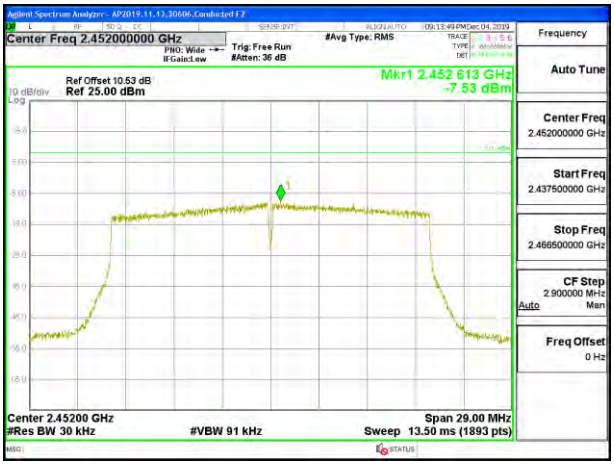
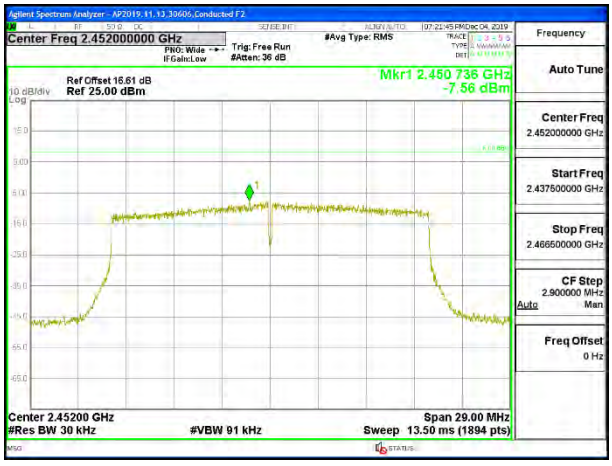
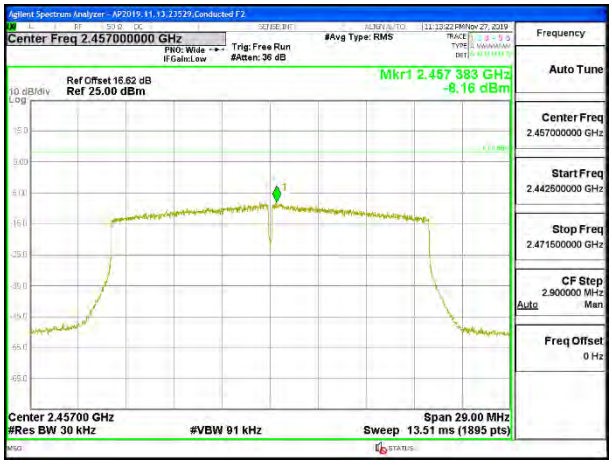


HIGH CHANNEL 9 UAT 1

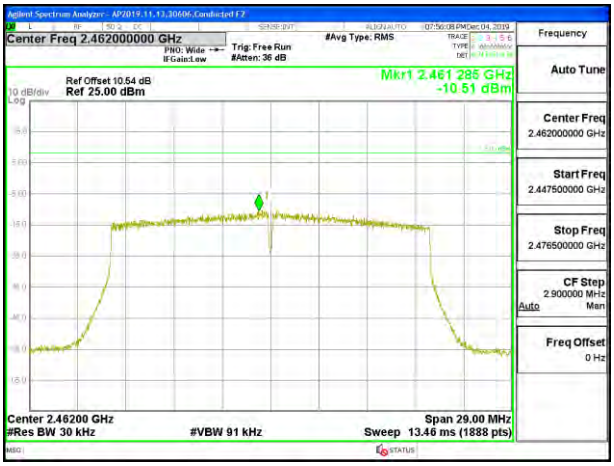


HIGH CHANNEL 9 LAT 3

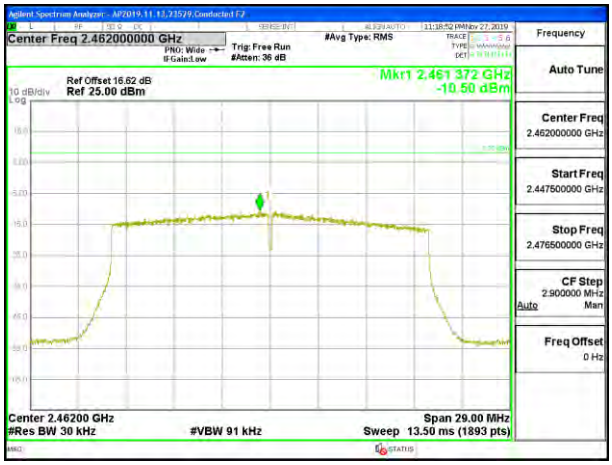
HIGH CHANNEL 10 UAT 1



HIGH CHANNEL 10 LAT 3



HIGH CHANNEL 11 UAT 1



HIGH CHANNEL 11 LAT 3

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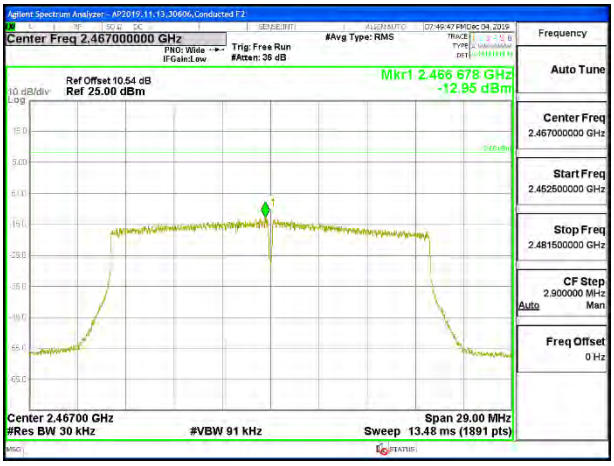
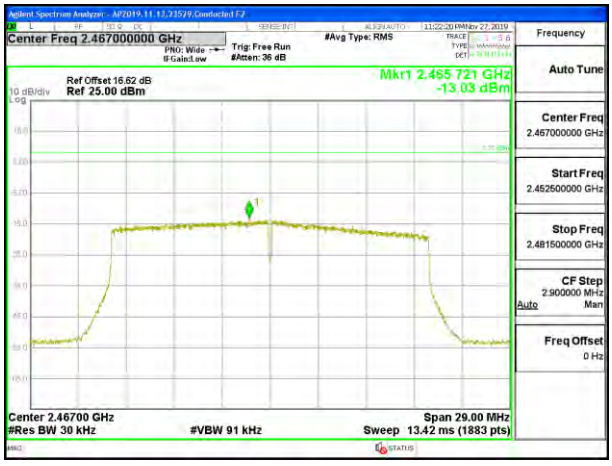
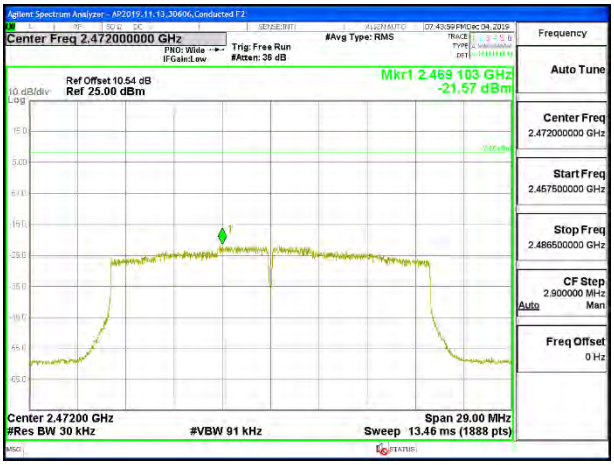


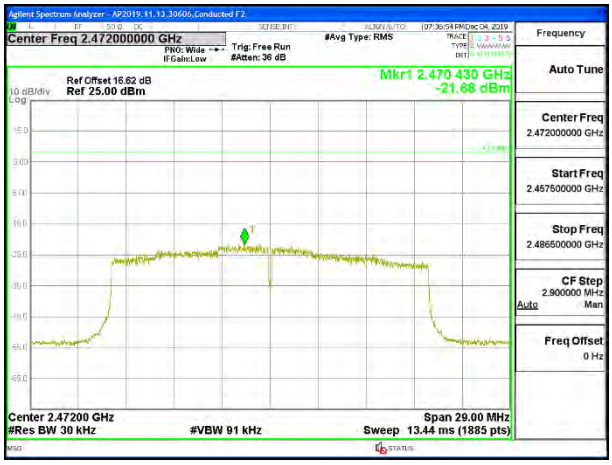
HIGH CHANNE 12 UAT 1



HIGH CHANNEL 12 LAT 3



HIGH CHANNEL 13 UAT 1



HIGH CHANNEL 13 LAT 3

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8.6. CONDUCTED SPURIOUS EMISSIONS

LIMITS

FCC §15.247 (d)

RSS-247 5.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

RESULTS

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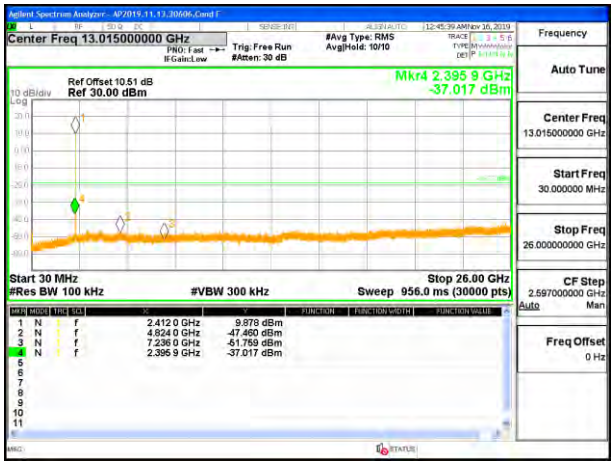
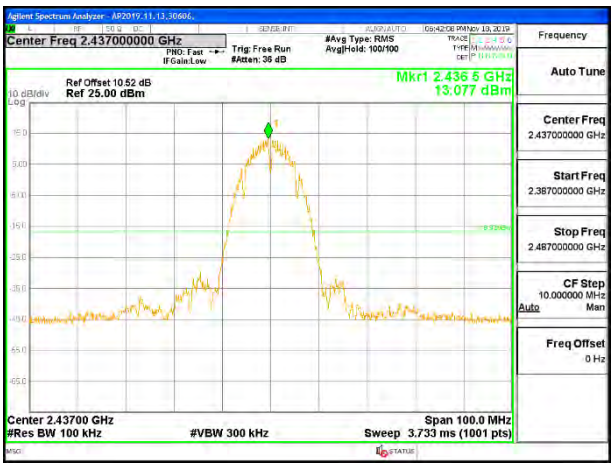
8.6.1. 802.11b MODE

1TX UAT 1

LOW CHANNEL 1 BANDEDGE



OUT-OF-BAND LOW CHANNEL 1



IN-BAND REFERNCE LEVEL

OUT-OF-BAND MID CHANNEL

HIGH CHANNEL 11 BANDEDGE

OUT-OF-BAND HIGH CHANNEL 11

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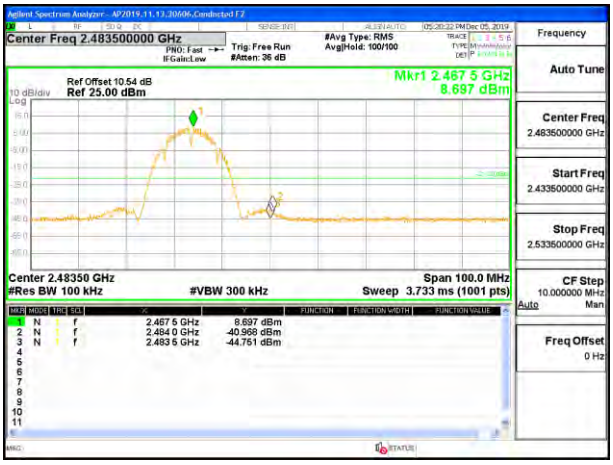
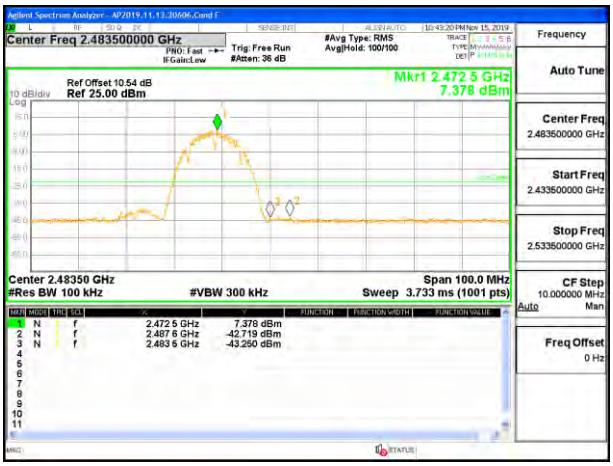


HIGH CHANNEL 12 BANDEDGE

OUT-OF-BAND HIGH CHANNEL 12



HIGH CHANNEL 13 BANDEDGE

OUT-OF-BAND HIGH CHANNEL 13

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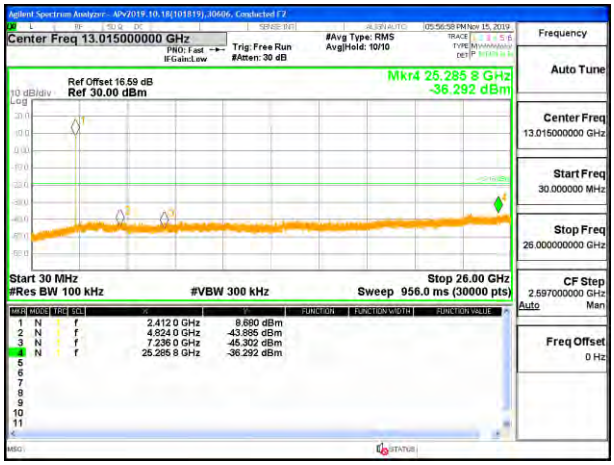
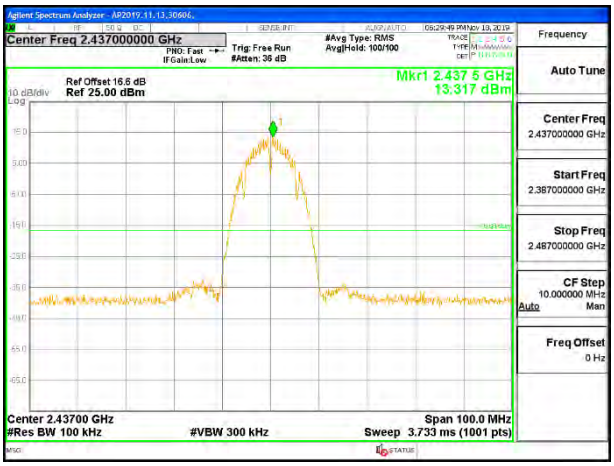
1TX LAT 3

LOW CHANNEL 1 BANDEDGE

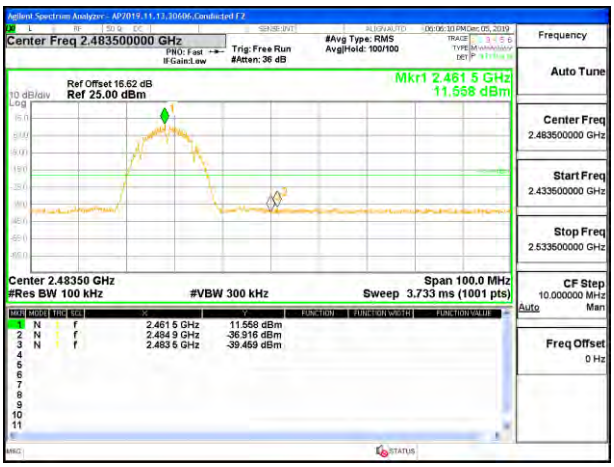


OUT-OF-BAND LOW CHANNEL 1



IN-BAND REFERNCE LEVEL

OUT-OF-BAND MID CHANNEL



HIGH CHANNEL 11 BANDEDGE

OUT-OF-BAND HIGH CHANNEL 11

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HIGH CHANNEL 12 BANDEDGE

OUT-OF-BAND HIGH CHANNEL 12

HIGH CHANNEL 13 BANDEDGE

OUT-OF-BAND HIGH CHANNEL 13

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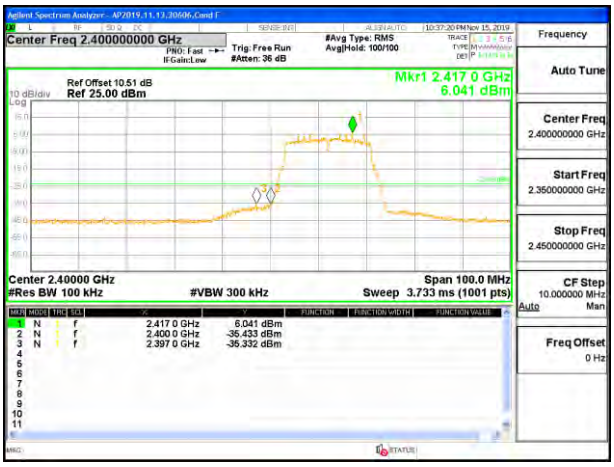
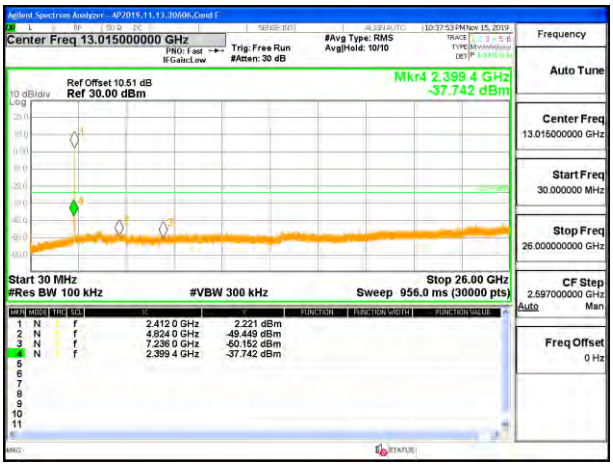
8.6.2. 802.11n HT20 MODE

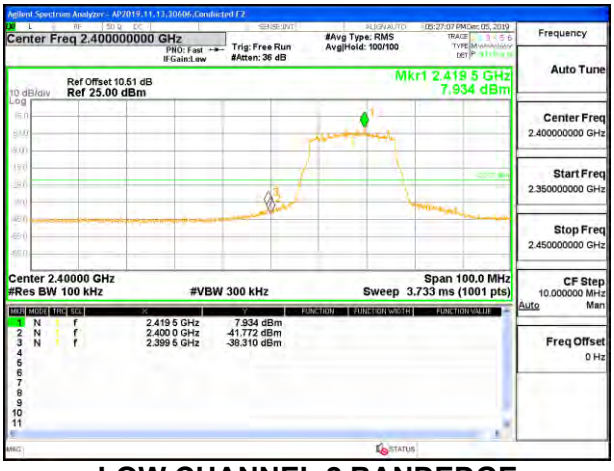
1TX UAT 1



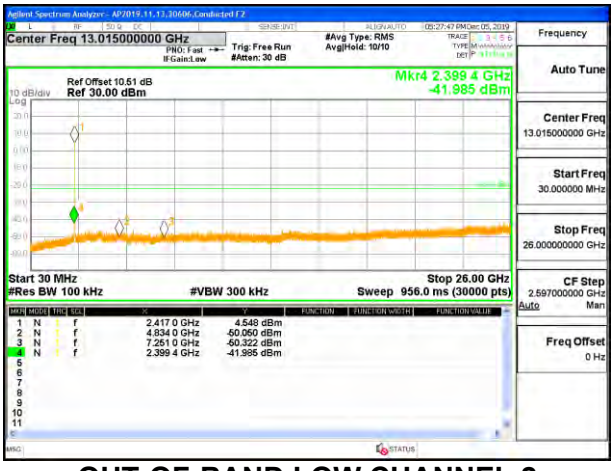
LOW CHANNEL 1 BANDEDGE



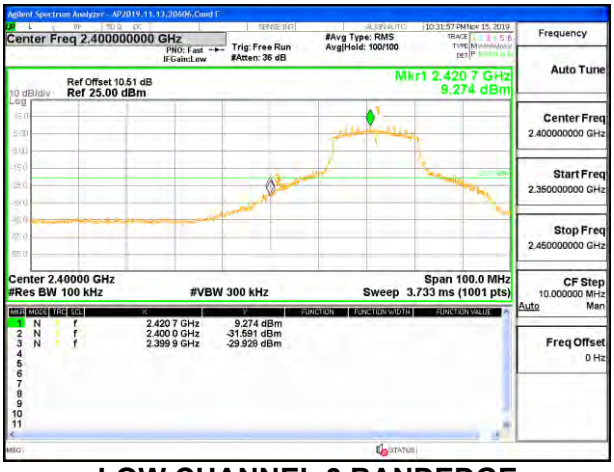
OUT-OF-BAND LOW CHANNEL 1



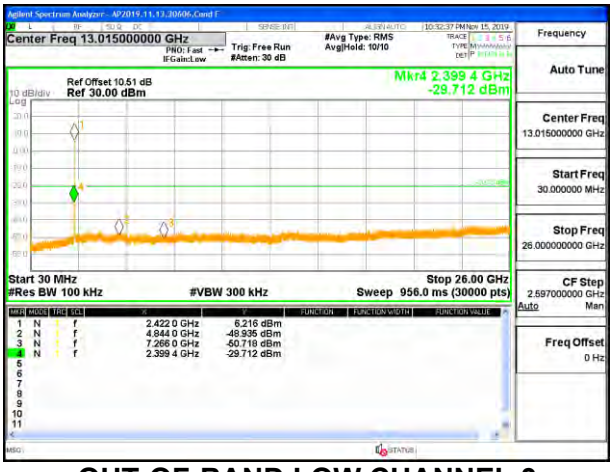
LOW CHANNEL 2 BANDEDGE



OUT-OF-BAND LOW CHANNEL 2



LOW CHANNEL 3 BANDEDGE



OUT-OF-BAND LOW CHANNEL 3

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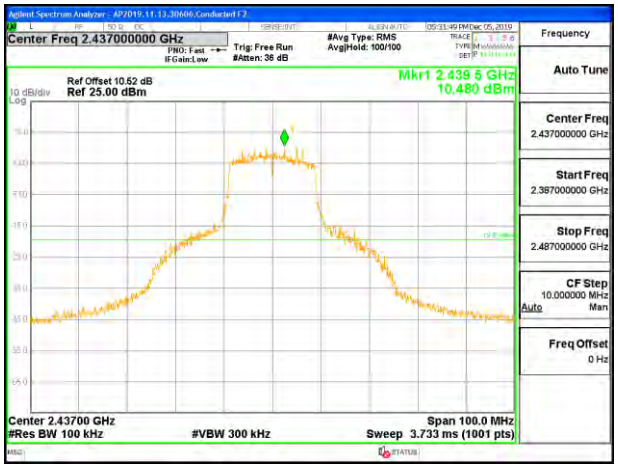
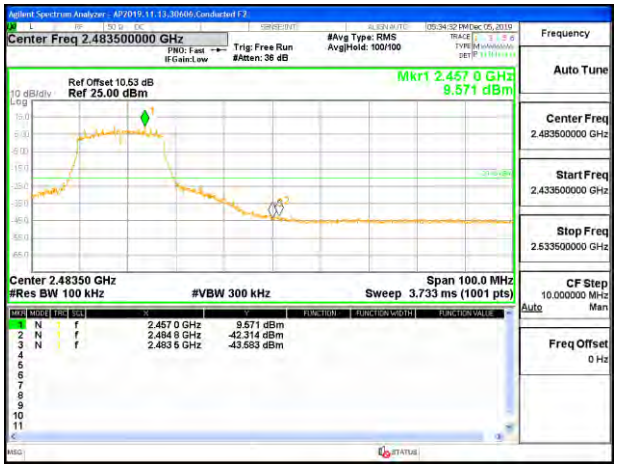
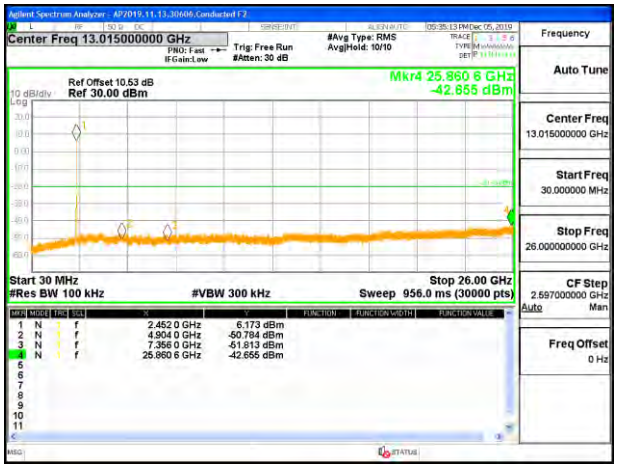


IN-BAND REFERNCE LEVEL

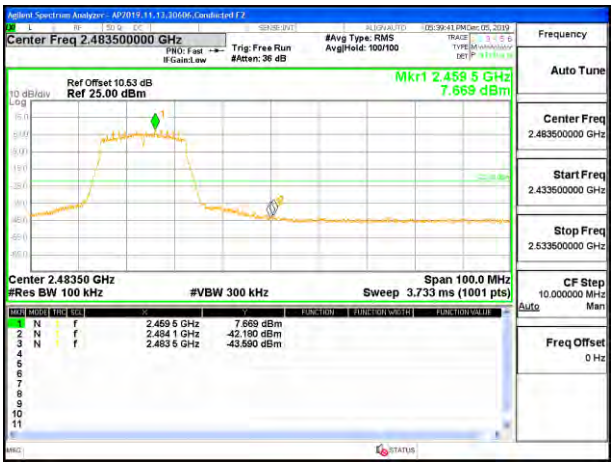
OUT-OF-BAND MID CHANNEL



HIGH CHANNEL 9 BANDEDGE



OUT-OF-BAND HIGH CHANNEL 9



HIGH CHANNEL 10 BANDEDGE

OUT-OF-BAND HIGH CHANNEL 10

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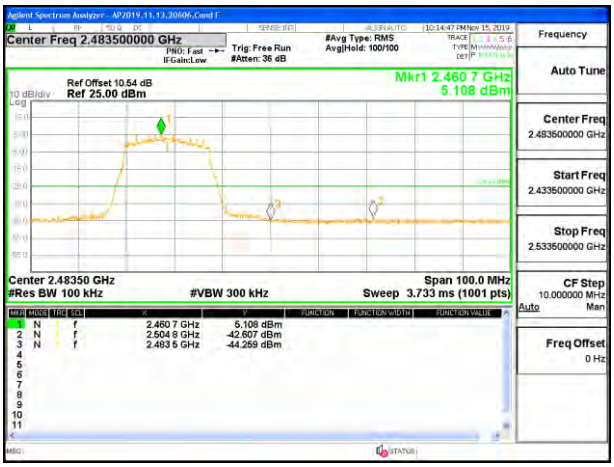

HIGH CHANNEL 11 BANDEDGE

OUT-OF-BAND HIGH CHANNEL 11

HIGH CHANNEL 12 BANDEDGE

OUT-OF-BAND HIGH CHANNEL 12

HIGH CHANNEL 13 BANDEDGE

OUT-OF-BAND HIGH CHANNEL 13

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