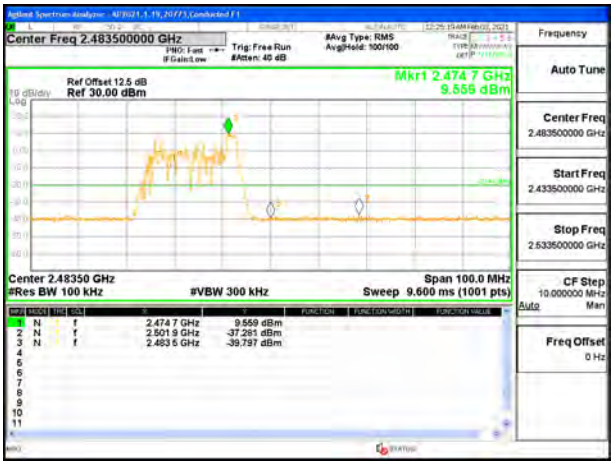
HIGH CHANNEL 11 BANDEDGE

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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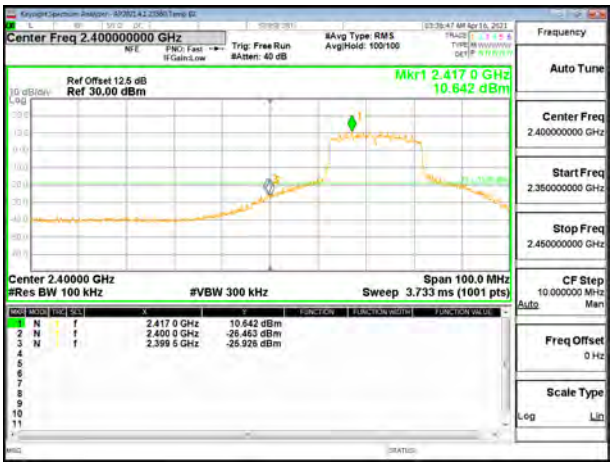
ANT 4: SU Mode

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

UL VERIFICATION SERVICES INC.
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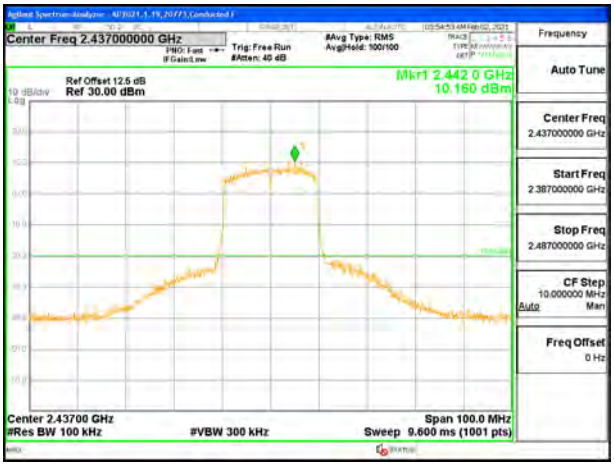

MID CHANNEL REFERNCE LEVEL

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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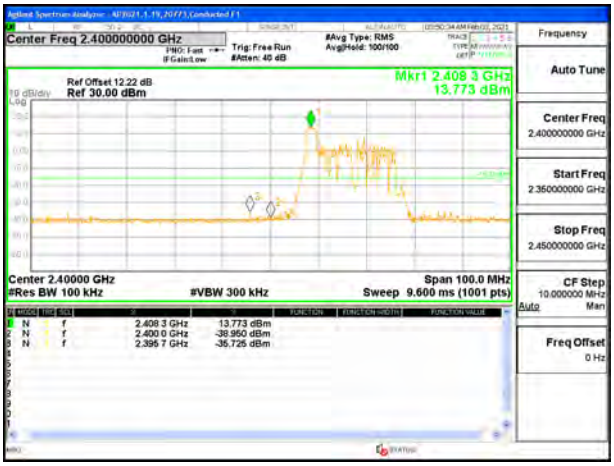
ANT 3: 26-Tones, RU Index 0

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

UL VERIFICATION SERVICES INC.
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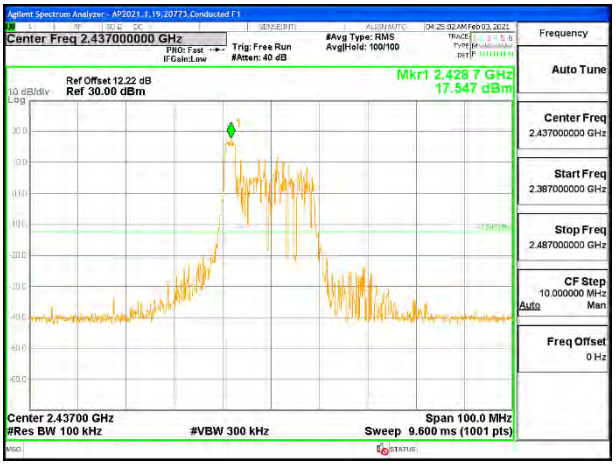

MID CHANNEL REFERNCE LEVEL

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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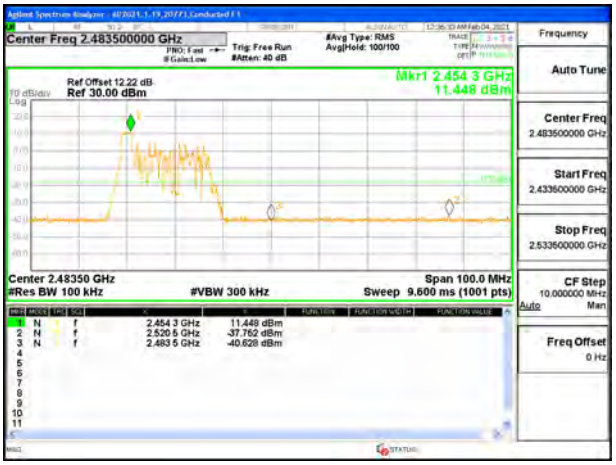

HIGH CHANNEL 11 BANDEDGE

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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ANT 3: 26-Tones, RU Index 4

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

UL VERIFICATION SERVICES INC.
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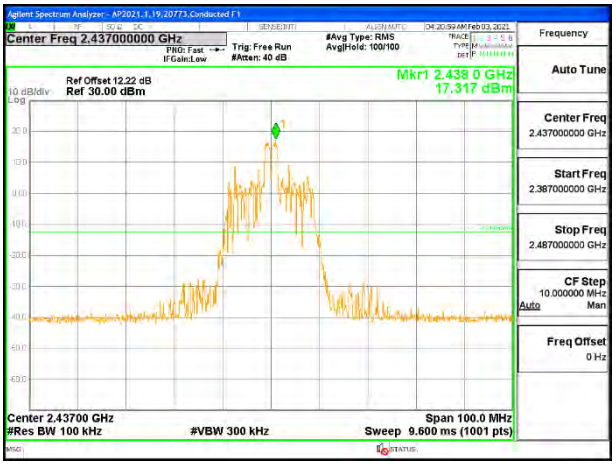


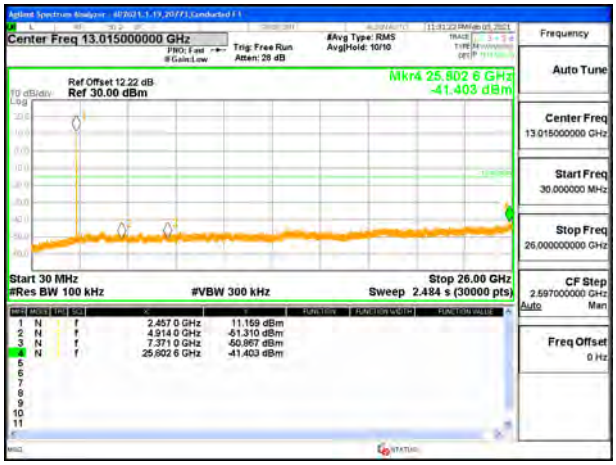
MID CHANNEL REFERNCE LEVEL

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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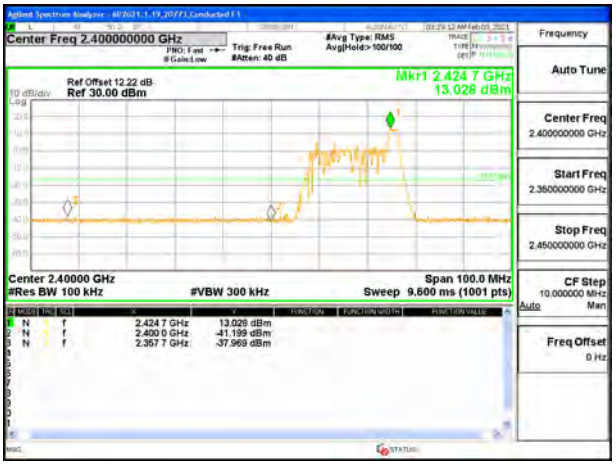
ANT 3: 26-Tones, RU Index 8

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

UL VERIFICATION SERVICES INC.
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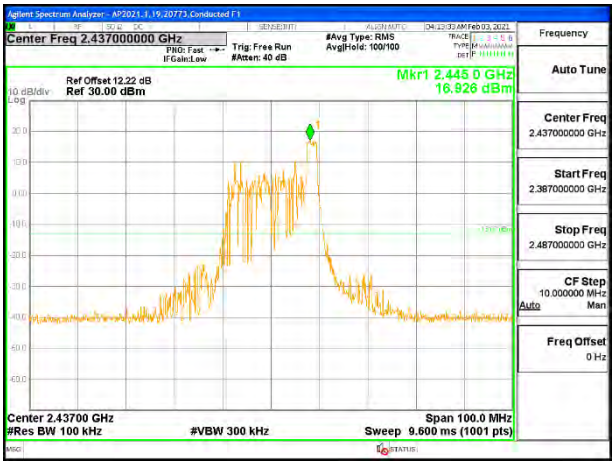

MID CHANNEL REFERNCE LEVEL

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

UL VERIFICATION SERVICES INC.
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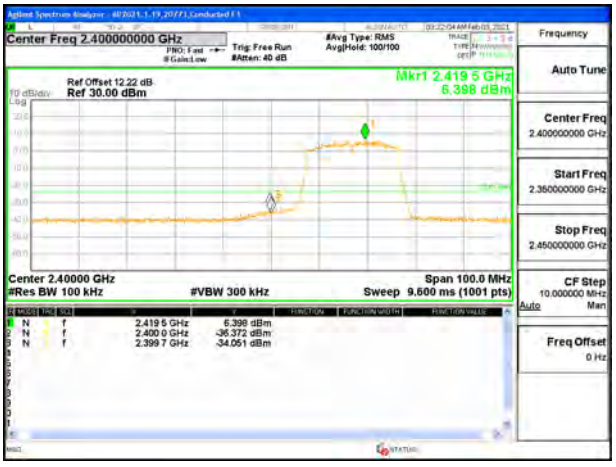
ANT 3: SU Mode

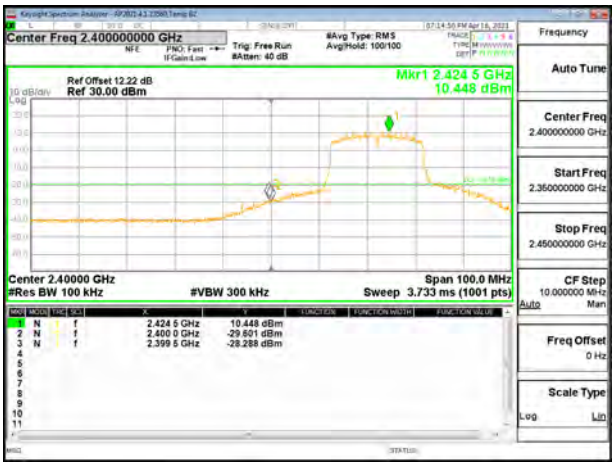
LOW CHANNEL 1 BANDEDGE

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

UL VERIFICATION SERVICES INC.
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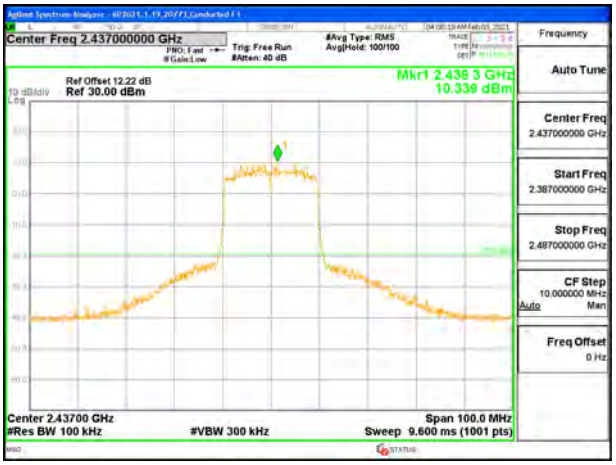

MID CHANNEL REFERNCE LEVEL

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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9.6.5. **802.11ax HE20 OFDMA MODE 2TX**

ANT 4 + ANT 3: 26-Tones, RU Index 0

LOW CHANNEL 1 BANDEDGE ANT 4

OUT-OF-BAND LOW CHANNEL 1 ANT 4

LOW CHANNEL 2 BANDEDGE ANT 4

OUT-OF-BAND LOW CHANNEL 2 ANT 4

LOW CHANNEL 3 BANDEDGE ANT 4

OUT-OF-BAND LOW CHANNEL 3 ANT 4

UL VERIFICATION SERVICES INC.
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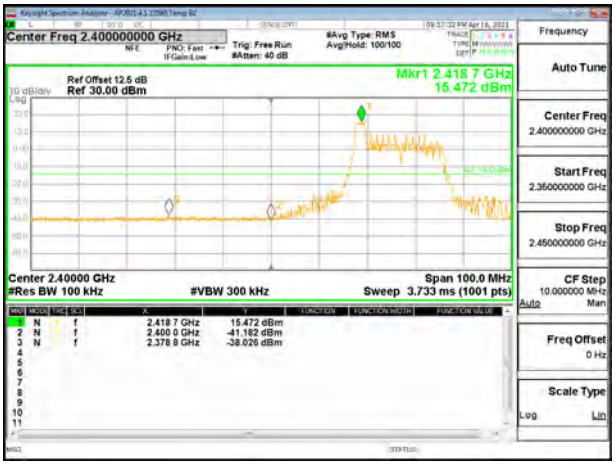
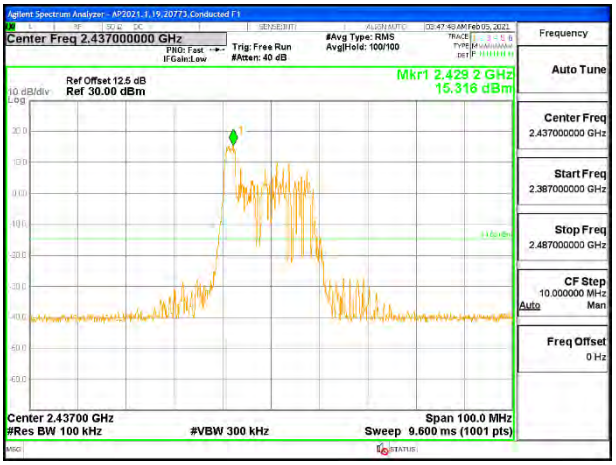
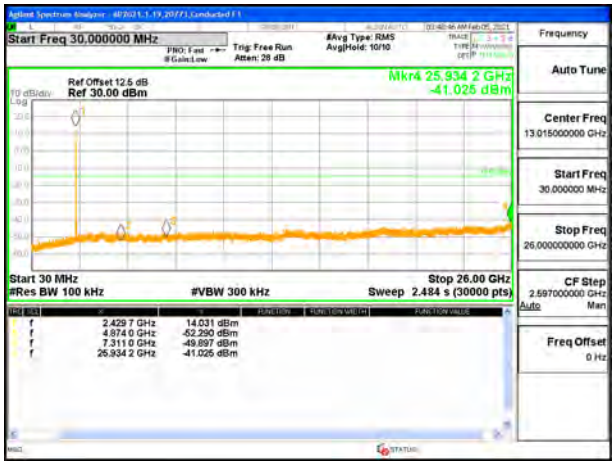


LOW CHANNEL 4 BANDEDGE ANT 4

OUT-OF-BAND LOW CHANNEL 4 ANT 4



MID CHANNEL REFERENCE LEVEL ANT 4



OUT-OF-BAND MID CHANNEL ANT 4

HIGH CHANNEL 8 BANDEDGE ANT 4

OUT-OF-BAND HIGH CHANNEL 8 ANT 4

UL VERIFICATION SERVICES INC.
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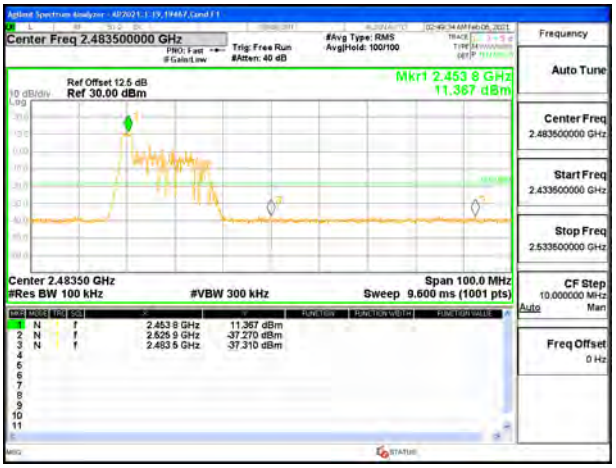
HIGH CHANNEL 9 BANDEDGE ANT 4

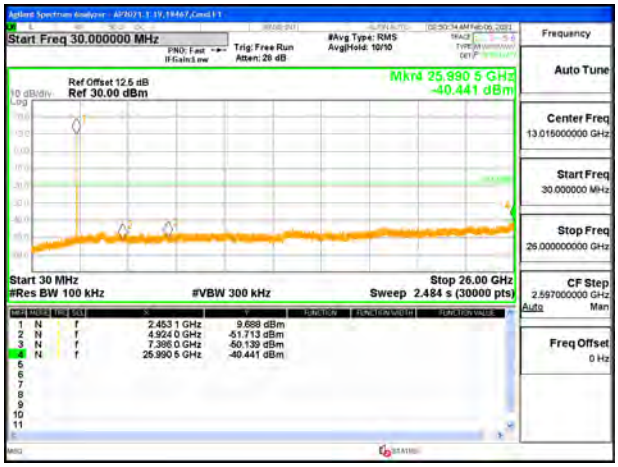
OUT-OF-BAND HIGH CHANNEL 9 ANT 4

HIGH CHANNEL 10 BANDEDGE ANT 4

OUT-OF-BAND HIGH CHANNEL 10 ANT 4



HIGH CHANNEL 11 BANDEDGE ANT 4



OUT-OF-BAND HIGH CHANNEL 11 ANT 4

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HIGH CHANNEL 12 BANDEDGE ANT 4

OUT-OF-BAND HIGH CHANNEL 12 ANT 4

HIGH CHANNEL 13 BANDEDGE ANT 4

OUT-OF-BAND HIGH CHANNEL 13 ANT 4

UL VERIFICATION SERVICES INC.
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LOW CHANNEL 1 BANDEDGE ANT 3

OUT-OF-BAND LOW CHANNEL 1 ANT 3

LOW CHANNEL 2 BANDEDGE ANT 3

OUT-OF-BAND LOW CHANNEL 2 ANT 3

LOW CHANNEL 3 BANDEDGE ANT 3

OUT-OF-BAND LOW CHANNEL 3 ANT 3

UL VERIFICATION SERVICES INC.
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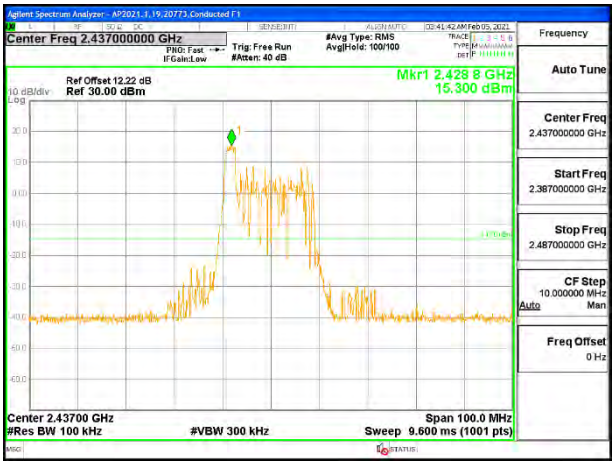
LOW CHANNEL 4 BANDEDGE ANT 3

OUT-OF-BAND LOW CHANNEL 4 ANT 3



MID CHANNEL REFERENCE LEVEL ANT 3

OUT-OF-BAND MID CHANNEL ANT 3

HIGH CHANNEL 8 BANDEDGE ANT 3

OUT-OF-BAND HIGH CHANNEL 8 ANT 3

UL VERIFICATION SERVICES INC.
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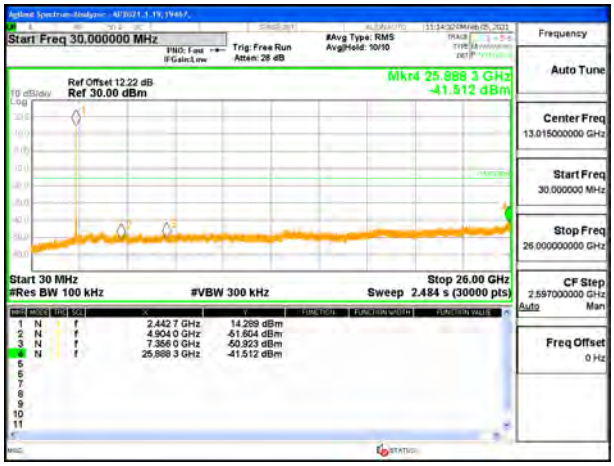
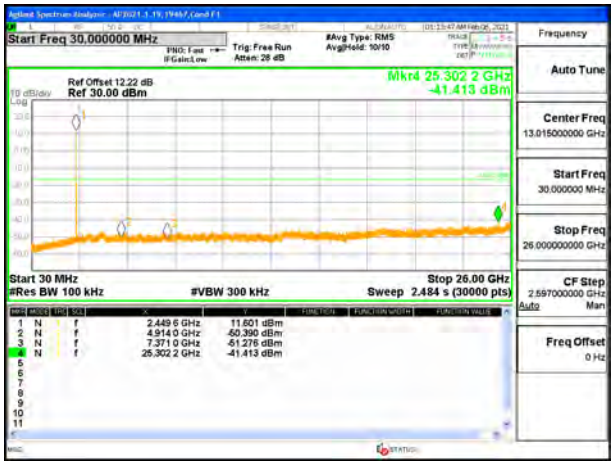
HIGH CHANNEL 9 BANDEDGE ANT 3

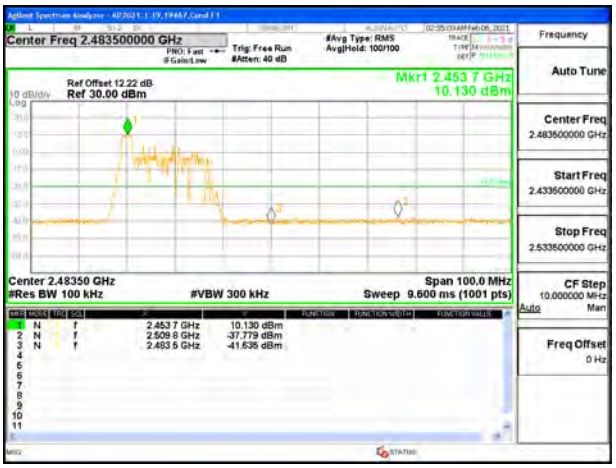


OUT-OF-BAND HIGH CHANNEL 9 ANT 3

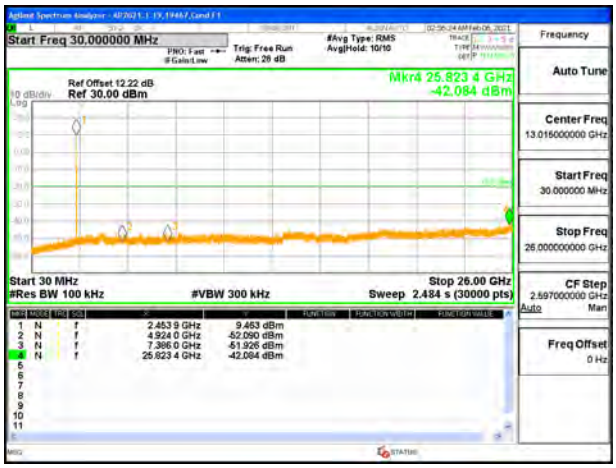
HIGH CHANNEL 10 BANDEDGE ANT 3



OUT-OF-BAND HIGH CHANNEL 10 ANT 3



HIGH CHANNEL 11 BANDEDGE ANT 3



OUT-OF-BAND HIGH CHANNEL 11 ANT 3

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HIGH CHANNEL 12 BANDEDGE ANT 3

OUT-OF-BAND HIGH CHANNEL 12 ANT 3

HIGH CHANNEL 13 BANDEDGE ANT 3

OUT-OF-BAND HIGH CHANNEL 13 ANT 3

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ANT 4 + ANT 3: 26-Tones, RU Index 4

LOW CHANNEL 1 BANDEDGE ANT 4

OUT-OF-BAND LOW CHANNEL 1 ANT 4

LOW CHANNEL 2 BANDEDGE ANT 4

OUT-OF-BAND LOW CHANNEL 2 ANT 4

LOW CHANNEL 3 BANDEDGE ANT 4

OUT-OF-BAND LOW CHANNEL 3 ANT 4

UL VERIFICATION SERVICES INC.
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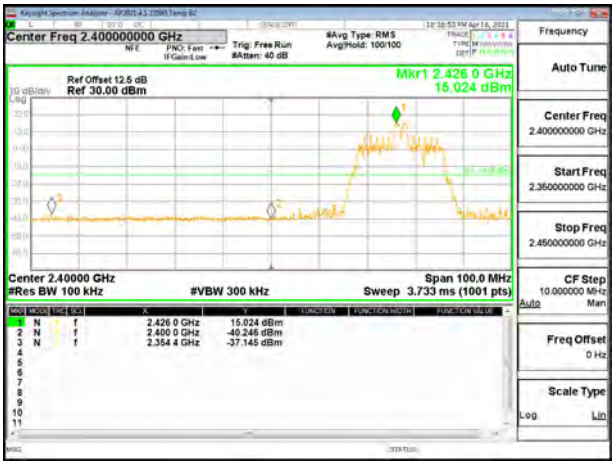
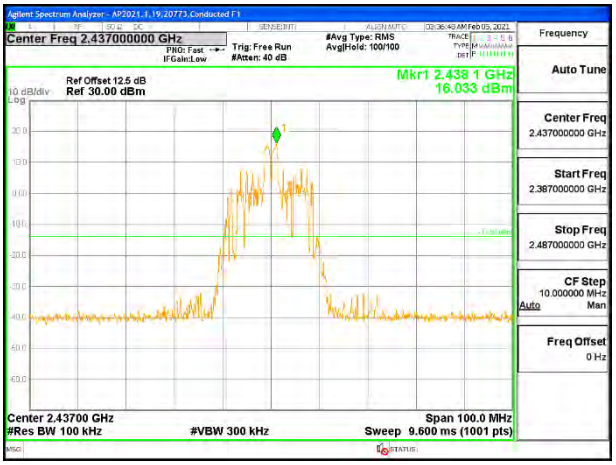


LOW CHANNEL 4 BANDEDGE ANT 4

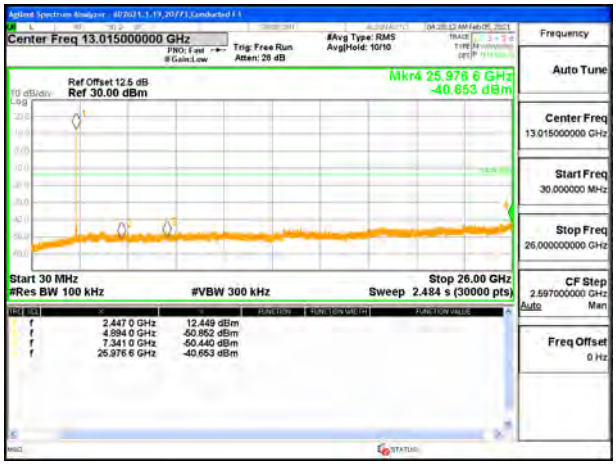
OUT-OF-BAND LOW CHANNEL 4 ANT 4



MID CHANNEL REFERENCE LEVEL ANT 4

OUT-OF-BAND MID CHANNEL ANT 4

HIGH CHANNEL 8 BANDEDGE ANT 4



OUT-OF-BAND HIGH CHANNEL 8 ANT 4

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HIGH CHANNEL 9 BANDEDGE ANT 4

OUT-OF-BAND HIGH CHANNEL 9 ANT 4

HIGH CHANNEL 10 BANDEDGE ANT 4

OUT-OF-BAND HIGH CHANNEL 10 ANT 4

HIGH CHANNEL 11 BANDEDGE ANT 4

OUT-OF-BAND HIGH CHANNEL 11 ANT 4

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HIGH CHANNEL 12 BANDEDGE ANT 4

OUT-OF-BAND HIGH CHANNEL 12 ANT 4

HIGH CHANNEL 13 BANDEDGE ANT 4

OUT-OF-BAND HIGH CHANNEL 13 ANT 4

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LOW CHANNEL 1 BANDEDGE ANT 3

OUT-OF-BAND LOW CHANNEL 1 ANT 3

LOW CHANNEL 2 BANDEDGE ANT 3

OUT-OF-BAND LOW CHANNEL 2 ANT 3

LOW CHANNEL 3 BANDEDGE ANT 3

OUT-OF-BAND LOW CHANNEL 3 ANT 3

UL VERIFICATION SERVICES INC.
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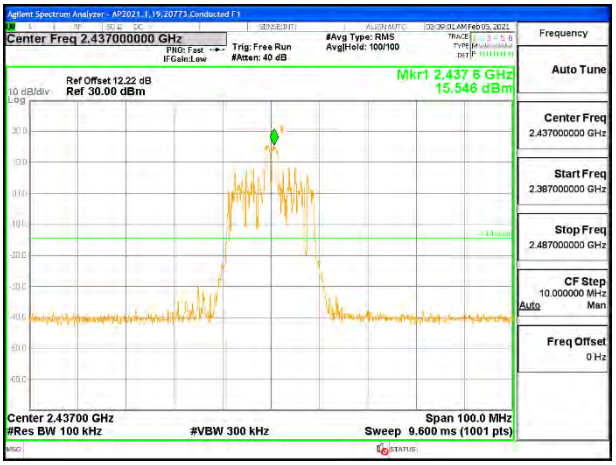
LOW CHANNEL 4 BANDEDGE ANT 3

OUT-OF-BAND LOW CHANNEL 4 ANT 3



MID CHANNEL REFERENCE LEVEL ANT 3

OUT-OF-BAND MID CHANNEL ANT 3

HIGH CHANNEL 8 BANDEDGE ANT 3

OUT-OF-BAND HIGH CHANNEL 8 ANT 3

UL VERIFICATION SERVICES INC.
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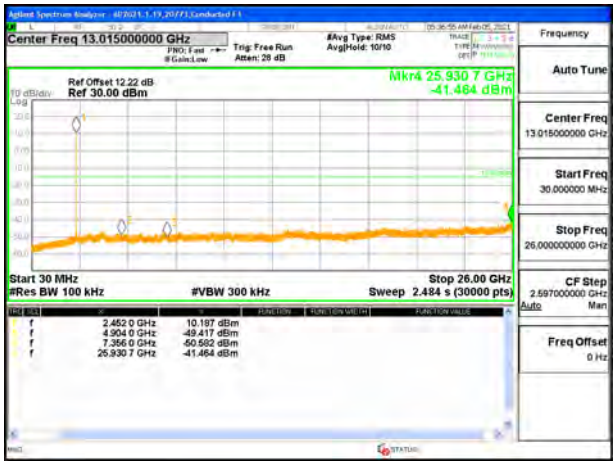
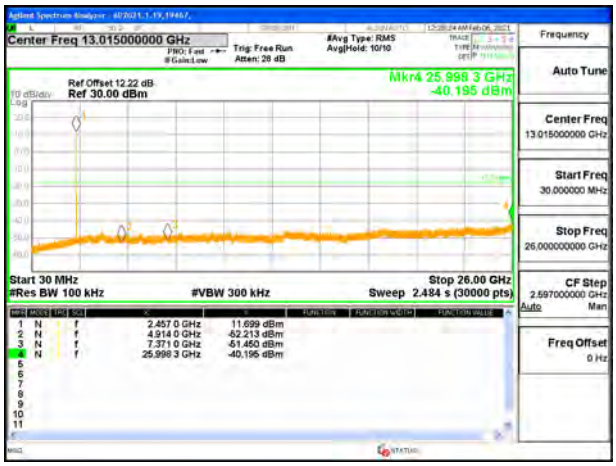
HIGH CHANNEL 9 BANDEDGE ANT 3



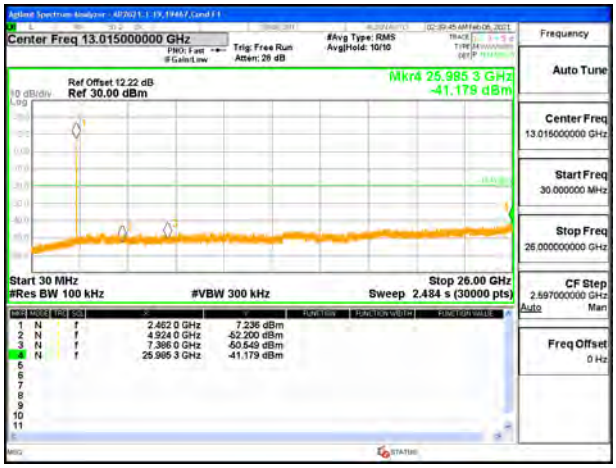
OUT-OF-BAND HIGH CHANNEL 9 ANT 3

HIGH CHANNEL 10 BANDEDGE ANT 3



OUT-OF-BAND HIGH CHANNEL 10 ANT 3

HIGH CHANNEL 11 BANDEDGE ANT 3



OUT-OF-BAND HIGH CHANNEL 11 ANT 3

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HIGH CHANNEL 12 BANDEDGE ANT 3

OUT-OF-BAND HIGH CHANNEL 12 ANT 3

HIGH CHANNEL 13 BANDEDGE ANT 3

OUT-OF-BAND HIGH CHANNEL 13 ANT 3

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ANT 4 + ANT 3: 26-Tones, RU Index 8

LOW CHANNEL 1 BANDEDGE ANT 4

OUT-OF-BAND LOW CHANNEL 1 ANT 4

LOW CHANNEL 2 BANDEDGE ANT 4

OUT-OF-BAND LOW CHANNEL 2 ANT 4

LOW CHANNEL 3 BANDEDGE ANT 4

OUT-OF-BAND LOW CHANNEL 3 ANT 4

UL VERIFICATION SERVICES INC.
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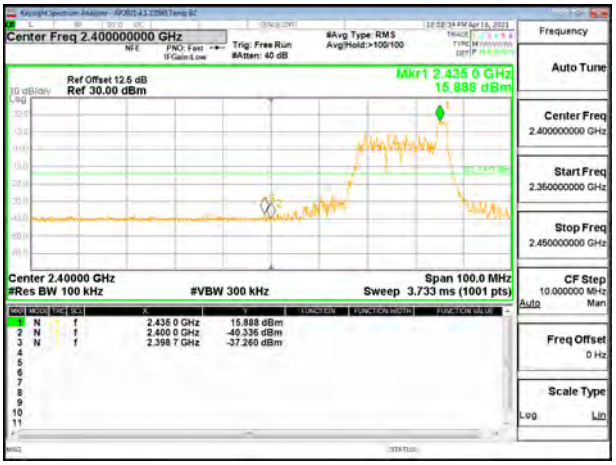
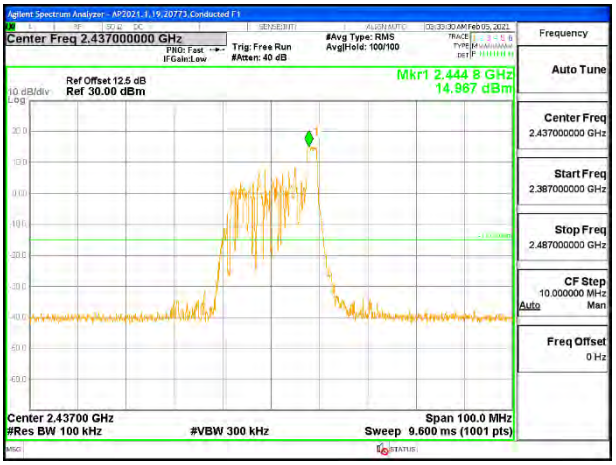


LOW CHANNEL 4 BANDEDGE ANT 4

OUT-OF-BAND LOW CHANNEL 4 ANT 4



MID CHANNEL REFERENCE LEVEL ANT 4

OUT-OF-BAND MID CHANNEL ANT 4

HIGH CHANNEL 8 BANDEDGE ANT 4

OUT-OF-BAND HIGH CHANNEL 8 ANT 4

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HIGH CHANNEL 9 BANDEDGE ANT 4

OUT-OF-BAND HIGH CHANNEL 9 ANT 4

HIGH CHANNEL 10 BANDEDGE ANT 4

OUT-OF-BAND HIGH CHANNEL 10 ANT 4

HIGH CHANNEL 11 BANDEDGE ANT 4

OUT-OF-BAND HIGH CHANNEL 11 ANT 4

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HIGH CHANNEL 12 BANDEDGE ANT 4

OUT-OF-BAND HIGH CHANNEL 12 ANT 4

HIGH CHANNEL 13 BANDEDGE ANT 4

OUT-OF-BAND HIGH CHANNEL 13 ANT 4

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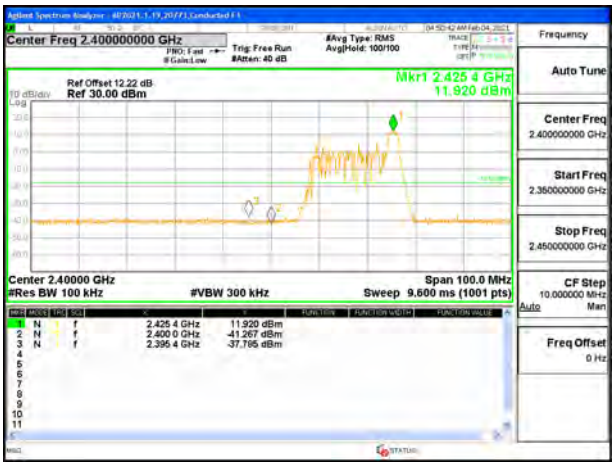
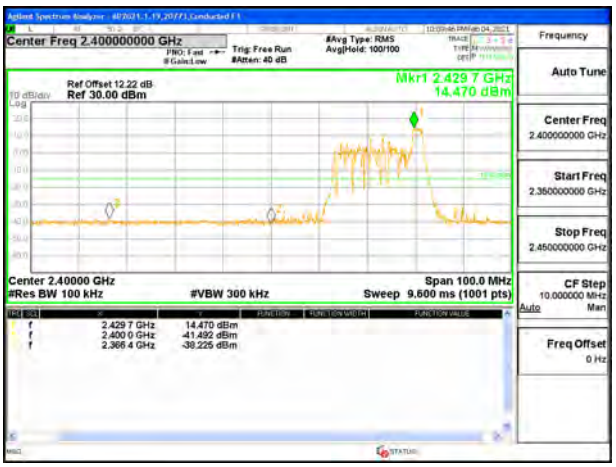
LOW CHANNEL 1 BANDEDGE ANT 3

OUT-OF-BAND LOW CHANNEL 1 ANT 3

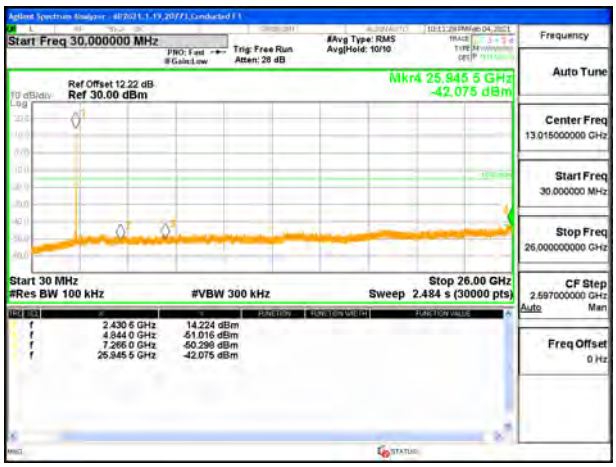


LOW CHANNEL 2 BANDEDGE ANT 3

OUT-OF-BAND LOW CHANNEL 2 ANT 3



LOW CHANNEL 3 BANDEDGE ANT 3



OUT-OF-BAND LOW CHANNEL 3 ANT 3

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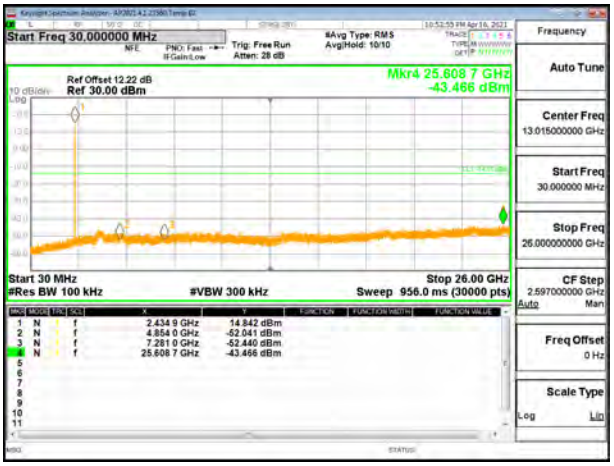
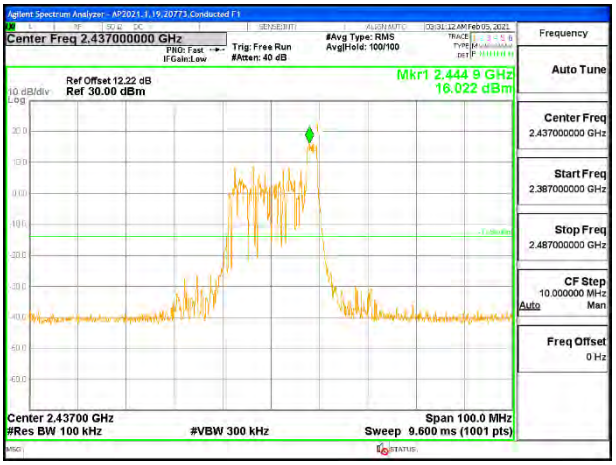
LOW CHANNEL 4 BANDEDGE ANT 3



OUT-OF-BAND LOW CHANNEL 4 ANT 3



MID CHANNEL REFERENCE LEVEL ANT 3

OUT-OF-BAND MID CHANNEL ANT 3

HIGH CHANNEL 8 BANDEDGE ANT 3

OUT-OF-BAND HIGH CHANNEL 8 ANT 3

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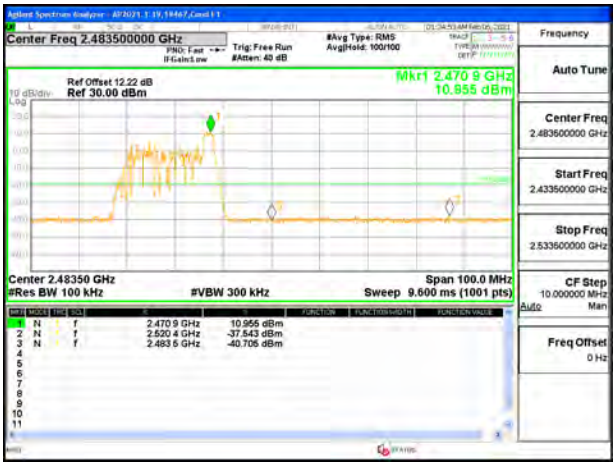
HIGH CHANNEL 9 BANDEDGE ANT 3

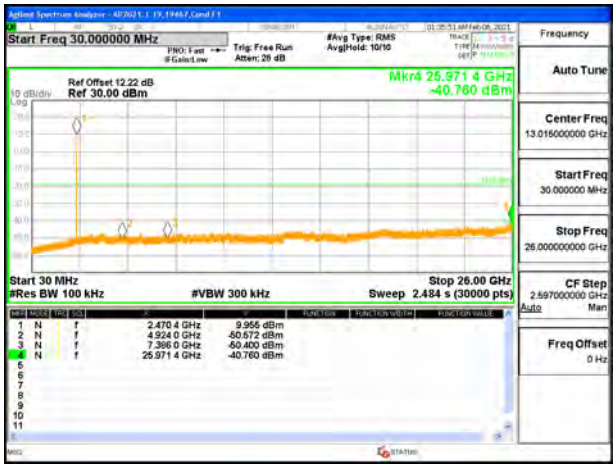
OUT-OF-BAND HIGH CHANNEL 9 ANT 3

HIGH CHANNEL 10 BANDEDGE ANT 3

OUT-OF-BAND HIGH CHANNEL 10 ANT 3



HIGH CHANNEL 11 BANDEDGE ANT 3



OUT-OF-BAND HIGH CHANNEL 11 ANT 3

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HIGH CHANNEL 12 BANDEDGE ANT 3

OUT-OF-BAND HIGH CHANNEL 12 ANT 3

HIGH CHANNEL 13 BANDEDGE ANT 3

OUT-OF-BAND HIGH CHANNEL 13 ANT 3

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ANT 4 + ANT 3: SU Mode

LOW CHANNEL 1 BANDEDGE ANT 4

OUT-OF-BAND LOW CHANNEL 1 ANT 4

LOW CHANNEL 2 BANDEDGE ANT 4

OUT-OF-BAND LOW CHANNEL 2 ANT 4

LOW CHANNEL 3 BANDEDGE ANT 4

OUT-OF-BAND LOW CHANNEL 3 ANT 4

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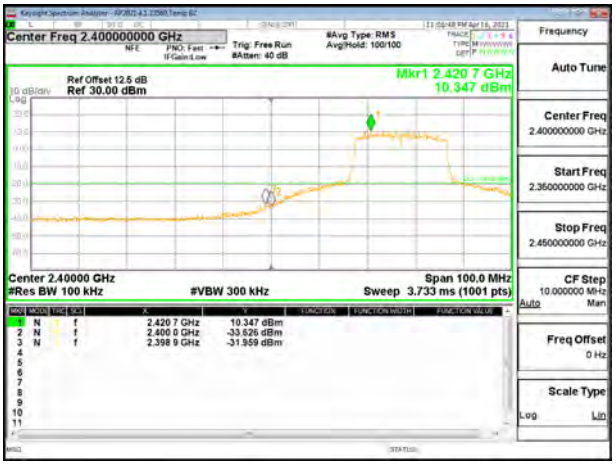
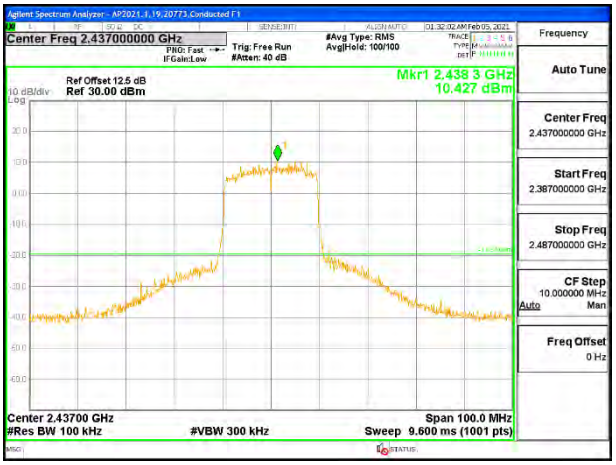


LOW CHANNEL 4 BANDEDGE ANT 4

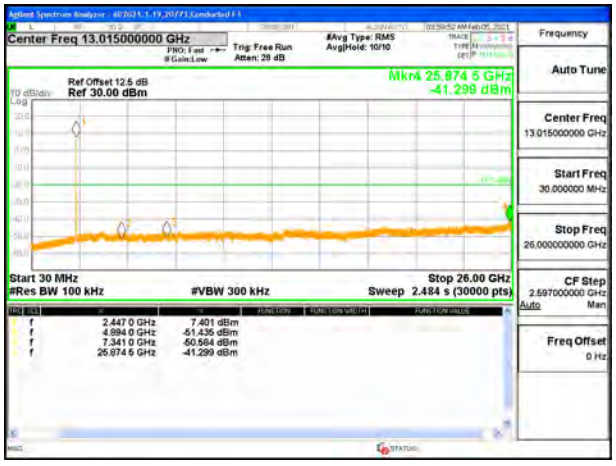
OUT-OF-BAND LOW CHANNEL 4 ANT 4



MID CHANNEL REFERENCE LEVEL ANT 4

OUT-OF-BAND MID CHANNEL ANT 4

HIGH CHANNEL 8 BANDEDGE ANT 4



OUT-OF-BAND HIGH CHANNEL 8 ANT 4

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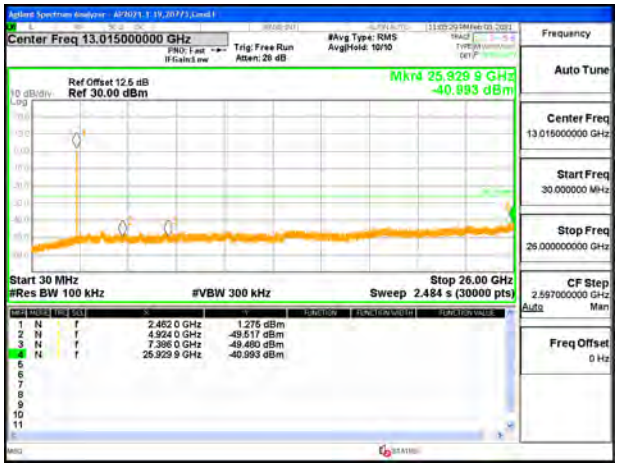
HIGH CHANNEL 9 BANDEDGE ANT 4

OUT-OF-BAND HIGH CHANNEL 9 ANT 4

HIGH CHANNEL 10 BANDEDGE ANT 4

OUT-OF-BAND HIGH CHANNEL 10 ANT 4

HIGH CHANNEL 11 BANDEDGE ANT 4



OUT-OF-BAND HIGH CHANNEL 11 ANT 4

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HIGH CHANNEL 12 BANDEDGE ANT 4

OUT-OF-BAND HIGH CHANNEL 12 ANT 4

HIGH CHANNEL 13 BANDEDGE ANT 4

OUT-OF-BAND HIGH CHANNEL 13 ANT 4

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LOW CHANNEL 1 BANDEDGE ANT 3

OUT-OF-BAND LOW CHANNEL 1 ANT 3

LOW CHANNEL 2 BANDEDGE ANT 3

OUT-OF-BAND LOW CHANNEL 2 ANT 3

LOW CHANNEL 3 BANDEDGE ANT 3

OUT-OF-BAND LOW CHANNEL 3 ANT 3

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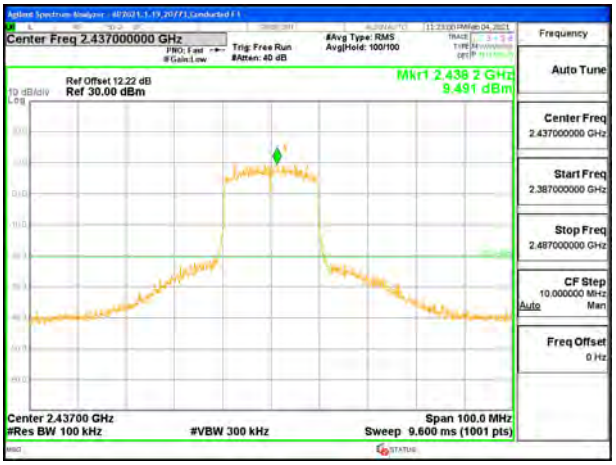
LOW CHANNEL 4 BANDEDGE ANT 3

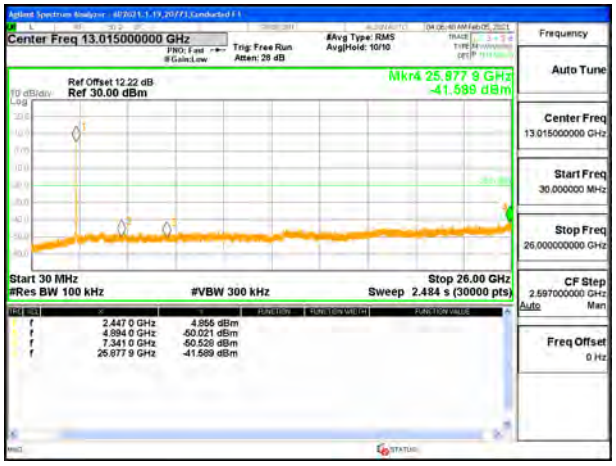
OUT-OF-BAND LOW CHANNEL 4 ANT 3



MID CHANNEL REFERENCE LEVEL ANT 3

OUT-OF-BAND MID CHANNEL ANT 3

HIGH CHANNEL 8 BANDEDGE ANT 3



OUT-OF-BAND HIGH CHANNEL 8 ANT 3

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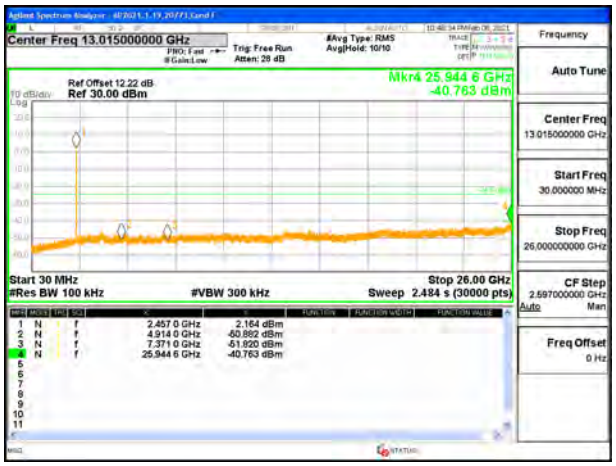
HIGH CHANNEL 9 BANDEDGE ANT 3

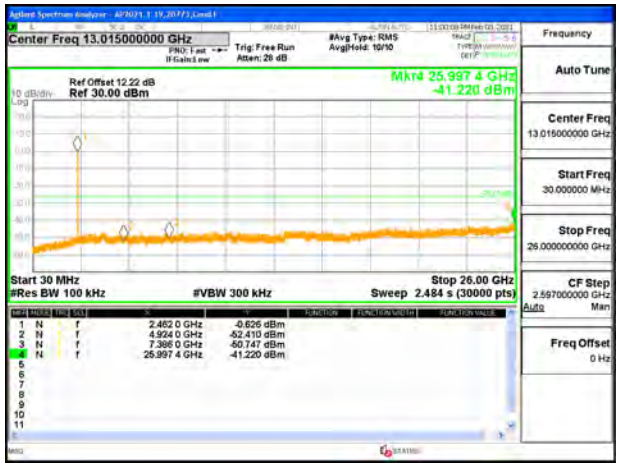
OUT-OF-BAND HIGH CHANNEL 9 ANT 3

HIGH CHANNEL 10 BANDEDGE ANT 3



OUT-OF-BAND HIGH CHANNEL 10 ANT 3

HIGH CHANNEL 11 BANDEDGE ANT 3



OUT-OF-BAND HIGH CHANNEL 11 ANT 3

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HIGH CHANNEL 12 BANDEDGE ANT 3

OUT-OF-BAND HIGH CHANNEL 12 ANT 3

HIGH CHANNEL 13 BANDEDGE ANT 3

OUT-OF-BAND HIGH CHANNEL 13 ANT 3

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10. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209
RSS-GEN, Section 8.9 and 8.10

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

The spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. Below 1GHz and above 18GHz emissions, the channel with the highest output power was tested.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

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KDB 414788 Open Field Site(OFS) and Chamber Correlation Justification

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

RESULTS

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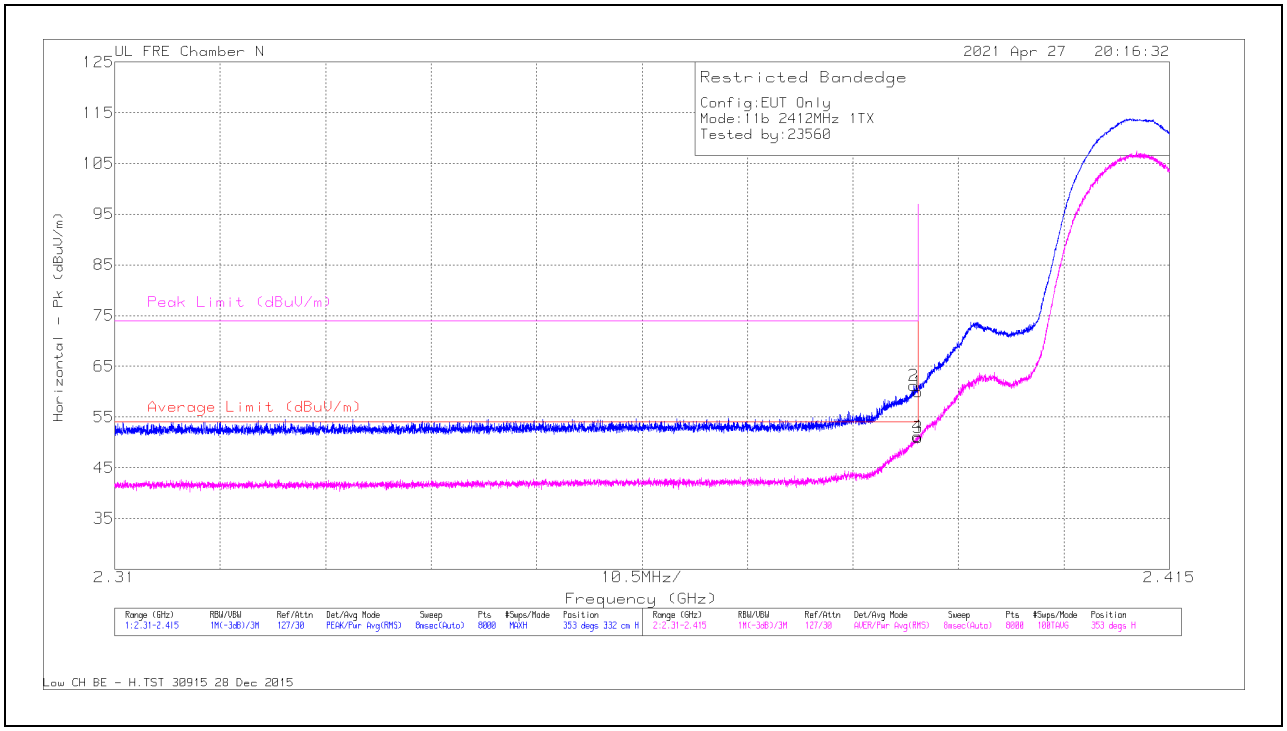
10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. TX ABOVE 1 GHz 802.11b 1TX MODE IN THE 2.4 GHz BAND

1TX ANT 4 MODE

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF PRE0213971 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.38956	64.99	Pk	32.4	-36.2	61.19	-	-	74	-12.81	353	332	H
4	2.38992	54.96	RMS	32.4	-36.2	51.16	54	-2.84	-	-	353	332	H
1	2.39	63.76	Pk	32.4	-36.2	59.96	-	-	74	-14.04	353	332	H
3	2.39	54.77	RMS	32.4	-36.2	50.97	54	-3.03	-	-	353	332	H

Pk - Peak detector
RMS - RMS detection

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