LOW CHANNEL 1

LOW CHANNEL 2

LOW CHANNEL 3

MID CHANNEL 6

HIGH CHANNEL 9

HIGH CHANNEL 10

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538; USA   TEL:(510) 319-4000   FAX:(510) 661-0888
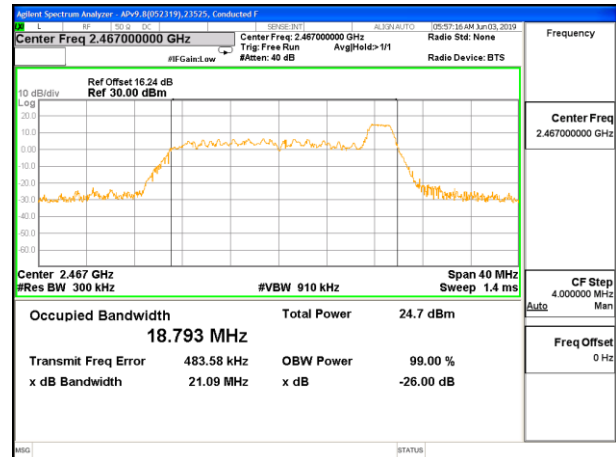*This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.*
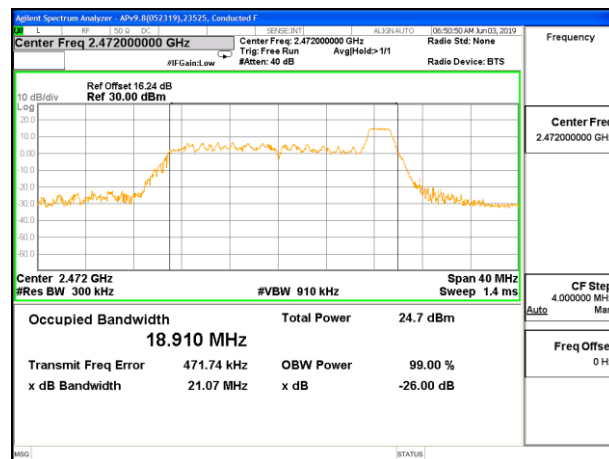
HIGH CHANNEL 11

HIGH CHANNEL 12

HIGH CHANNEL 13

Antenna 4, LEGACY SISO MODE: 242-Tones, RU index 61

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low 1	2412	18.9070
Low 2	2417	18.9660
Low 3	2422	18.9680
Mid 6	2437	19.0370
High 9	2452	19.0140
High 10	2457	19.0090
High 11	2462	18.9110
High 12	2467	18.9250
High 13	2472	18.9060
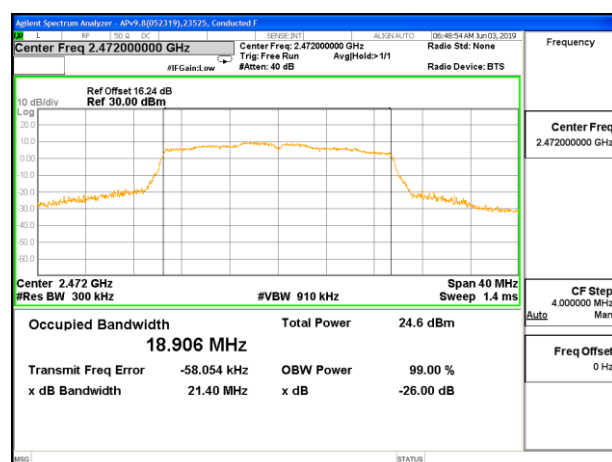
LOW CHANNEL 1

LOW CHANNEL 2

LOW CHANNEL 3

MID CHANNEL 6

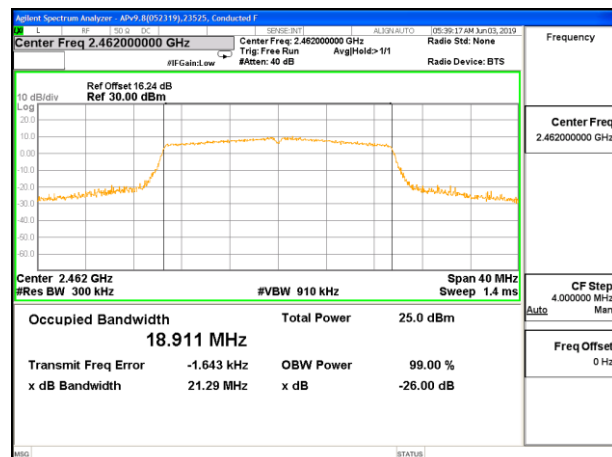HIGH CHANNEL 9

HIGH CHANNEL 10

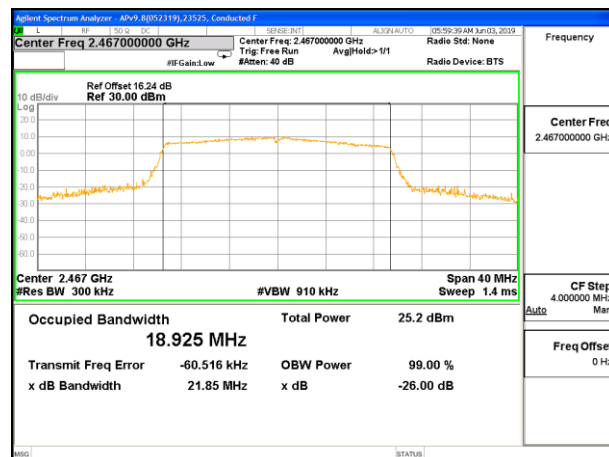**HIGH CHANNEL 11**

HIGH CHANNEL 12

HIGH CHANNEL 13

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

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low 1	2412	18.4760
Low 2	2417	18.4900
Low 3	2422	18.4570
Mid 6	2437	18.4700
High 9	2452	18.5010
High 10	2457	18.4890
High 11	2462	18.2860
High 12	2467	18.3470
High 13	2472	18.3210

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

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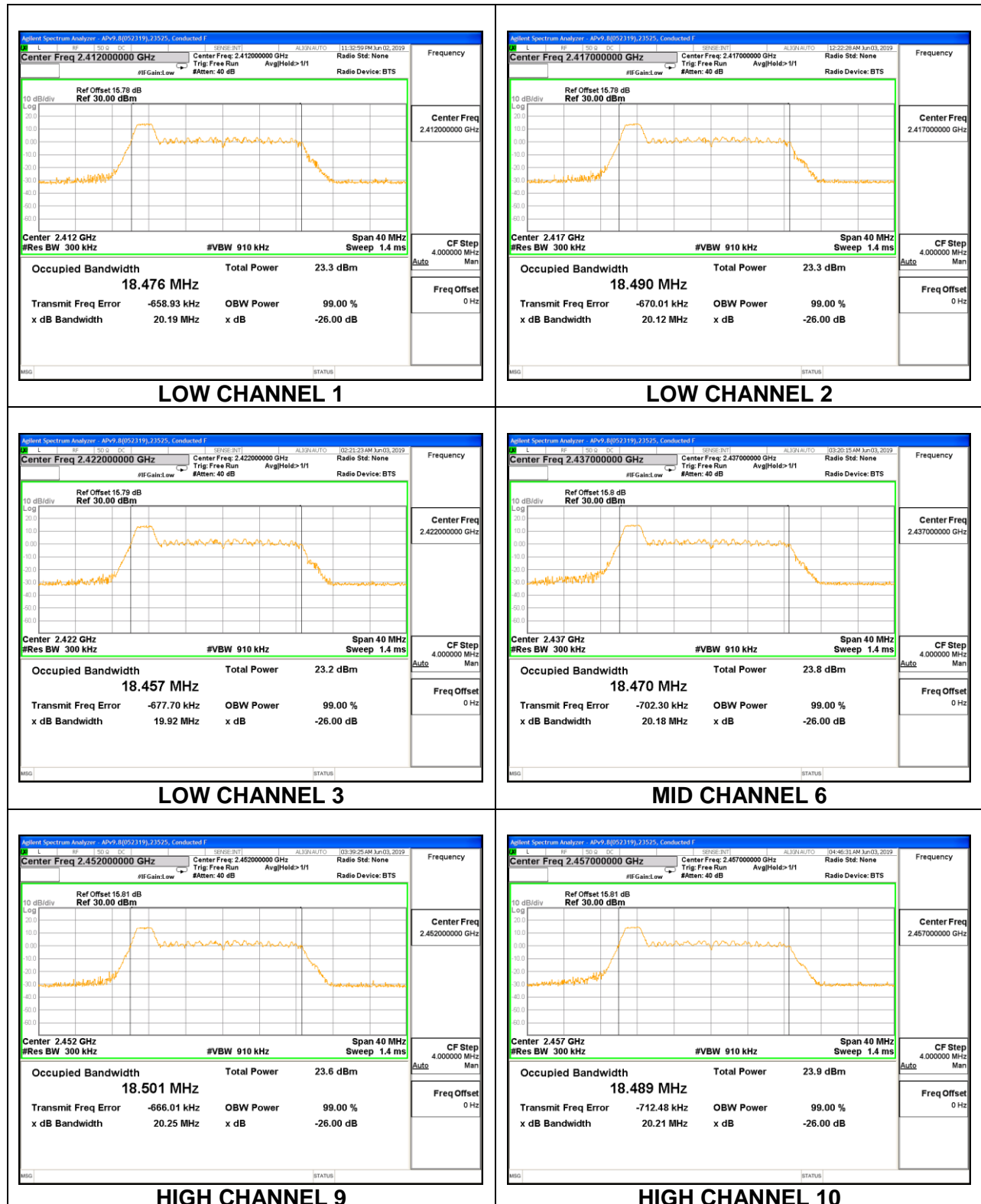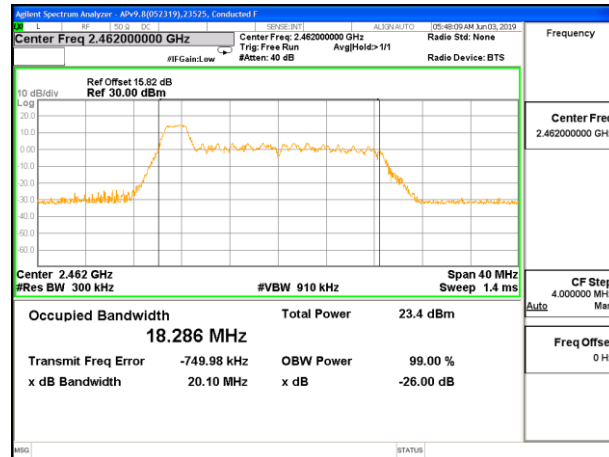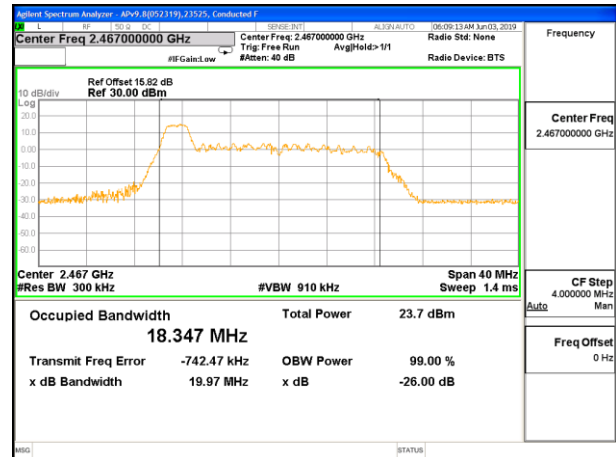
Antenna 3, LEGACY SISO MODE: 26-Tones, RU index 4

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low 1	2412	17.2580
Low 2	2417	17.1010
Low 3	2422	17.0990
Mid 6	2437	17.2840
High 9	2452	17.1400
High 10	2457	17.1800
High 11	2462	17.0900
High 12	2467	17.1760
High 13	2472	17.2150

LOW CHANNEL 1

LOW CHANNEL 2

LOW CHANNEL 3

MID CHANNEL 6

HIGH CHANNEL 9
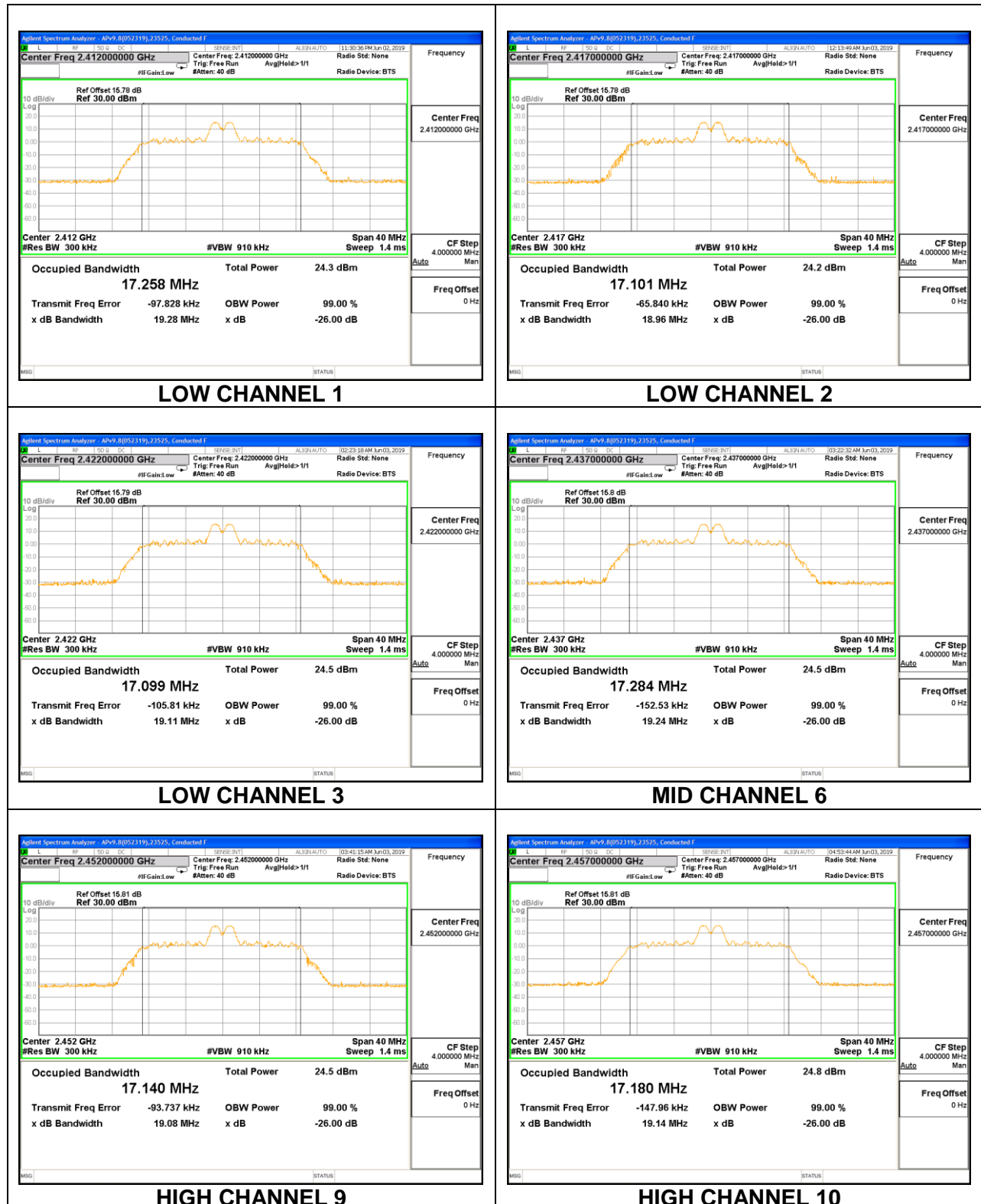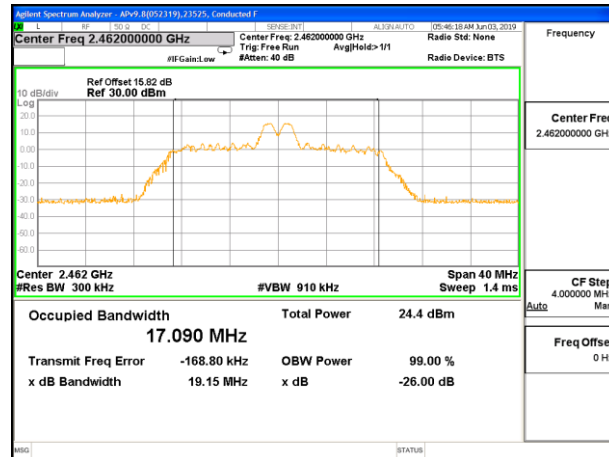
HIGH CHANNEL 10
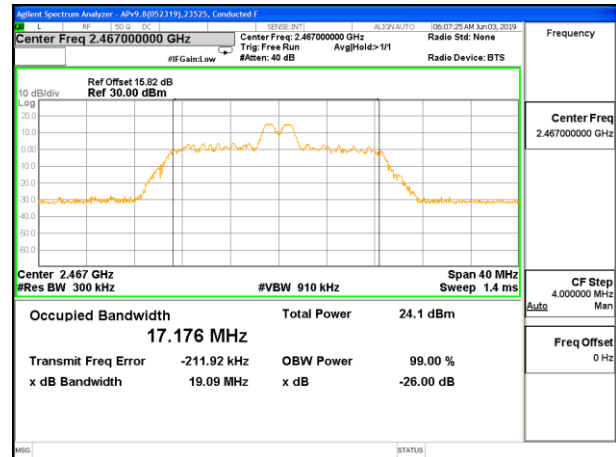
HIGH CHANNEL 11
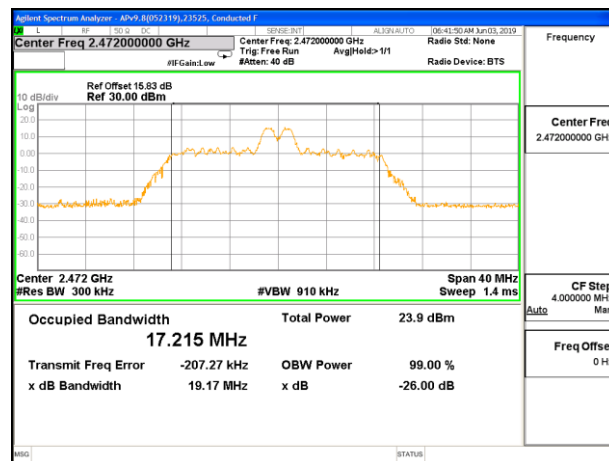
HIGH CHANNEL 12

HIGH CHANNEL 13

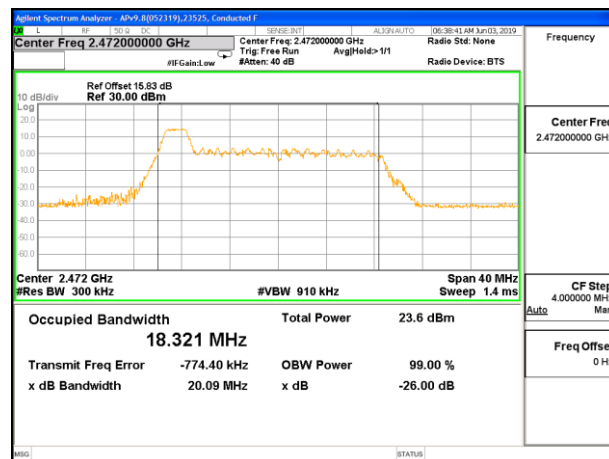**Antenna 3, LEGACY SISO MODE: 26-Tones, RU index 8**

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low 1	2412	18.6260
Low 2	2417	18.6580
Low 3	2422	18.7310
Mid 6	2437	18.8520
High 9	2452	18.7190
High 10	2457	18.6750
High 11	2462	18.8510
High 12	2467	18.8990
High 13	2472	18.8320

LOW CHANNEL 1

Agilent Spectrum Analyzer - APv9.8(052319),23525, Conducted F
Center Freq 2.412000000 GHz
Center Freq: 2.412000000 GHz — Radio Std: None
Trig: Free Run — Avg|Hold> 1/1
#IFGain:Low — #Atten: 40 dB — Radio Device: BTS
11:27:55 PM Jun 02, 2019
Ref Offset 15.78 dB
Ref 30.00 dBm
10 dB/div
Center 2.412 GHz — Span 40 MHz
#Res BW 300 kHz — #VBW 910 kHz — Sweep 1.4 ms

Occupied Bandwidth	Total Power	23.6 dBm
18.626 MHz		
Transmit Freq Error	585.26 kHz	OBW Power	99.00 %
x dB Bandwidth	20.53 MHz	x dB	-26.00 dB

LOW CHANNEL 2

Agilent Spectrum Analyzer - APv9.8(052319),23525, Conducted F
Center Freq 2.417000000 GHz
Center Freq: 2.417000000 GHz — Radio Std: None
Trig: Free Run — Avg|Hold> 1/1
#IFGain:Low — #Atten: 40 dB — Radio Device: BTS
12:02:05 AM Jun 03, 2019
Ref Offset 15.78 dB
Ref 30.00 dBm
10 dB/div
Center 2.417 GHz — Span 40 MHz
#Res BW 300 kHz — #VBW 910 kHz — Sweep 1.4 ms

Occupied Bandwidth	Total Power	23.5 dBm
18.658 MHz		
Transmit Freq Error	598.52 kHz	OBW Power	99.00 %
x dB Bandwidth	20.54 MHz	x dB	-26.00 dB

LOW CHANNEL 3

Agilent Spectrum Analyzer - APv9.8(052319),23525, Conducted F
Center Freq 2.422000000 GHz
Center Freq: 2.422000000 GHz — Radio Std: None
Trig: Free Run — Avg|Hold> 1/1
#IFGain:Low — #Atten: 40 dB — Radio Device: BTS
02:25:53 AM Jun 03, 2019
Ref Offset 15.79 dB
Ref 30.00 dBm
10 dB/div
Center 2.422 GHz — Span 40 MHz
#Res BW 300 kHz — #VBW 910 kHz — Sweep 1.4 ms

Occupied Bandwidth	Total Power	23.7 dBm
18.731 MHz		
Transmit Freq Error	569.09 kHz	OBW Power	99.00 %
x dB Bandwidth	20.76 MHz	x dB	-26.00 dB

MID CHANNEL 6

Agilent Spectrum Analyzer - APv9.8(052319),23525, Conducted F
Center Freq 2.437000000 GHz
Center Freq: 2.437000000 GHz — Radio Std: None
Trig: Free Run — Avg|Hold> 1/1
#IFGain:Low — #Atten: 40 dB — Radio Device: BTS
03:24:44 AM Jun 03, 2019
Ref Offset 15.8 dB
Ref 30.00 dBm
10 dB/div
Center 2.437 GHz — Span 40 MHz
#Res BW 300 kHz — #VBW 910 kHz — Sweep 1.4 ms

Occupied Bandwidth	Total Power	23.7 dBm
18.852 MHz		
Transmit Freq Error	528.55 kHz	OBW Power	99.00 %
x dB Bandwidth	20.90 MHz	x dB	-26.00 dB

HIGH CHANNEL 9

Agilent Spectrum Analyzer - APv9.8(052319),23525, Conducted F
Center Freq 2.452000000 GHz
Center Freq: 2.452000000 GHz — Radio Std: None
Trig: Free Run — Avg|Hold> 1/1
#IFGain:Low — #Atten: 40 dB — Radio Device: BTS
03:43:10 AM Jun 03, 2019
Ref Offset 15.81 dB
Ref 30.00 dBm
10 dB/div
Center 2.452 GHz — Span 40 MHz
#Res BW 300 kHz — #VBW 910 kHz — Sweep 1.4 ms

Occupied Bandwidth	Total Power	23.9 dBm
18.719 MHz		
Transmit Freq Error	576.74 kHz	OBW Power	99.00 %
x dB Bandwidth	20.81 MHz	x dB	-26.00 dB

HIGH CHANNEL 10

Agilent Spectrum Analyzer - APv9.8(052319),23525, Conducted F
Center Freq 2.457000000 GHz
Center Freq: 2.457000000 GHz — Radio Std: None
Trig: Free Run — Avg|Hold> 1/1
#IFGain:Low — #Atten: 40 dB — Radio Device: BTS
05:00:43 AM Jun 03, 2019
Ref Offset 15.81 dB
Ref 30.00 dBm
10 dB/div
Center 2.457 GHz — Span 40 MHz
#Res BW 300 kHz — #VBW 910 kHz — Sweep 1.4 ms

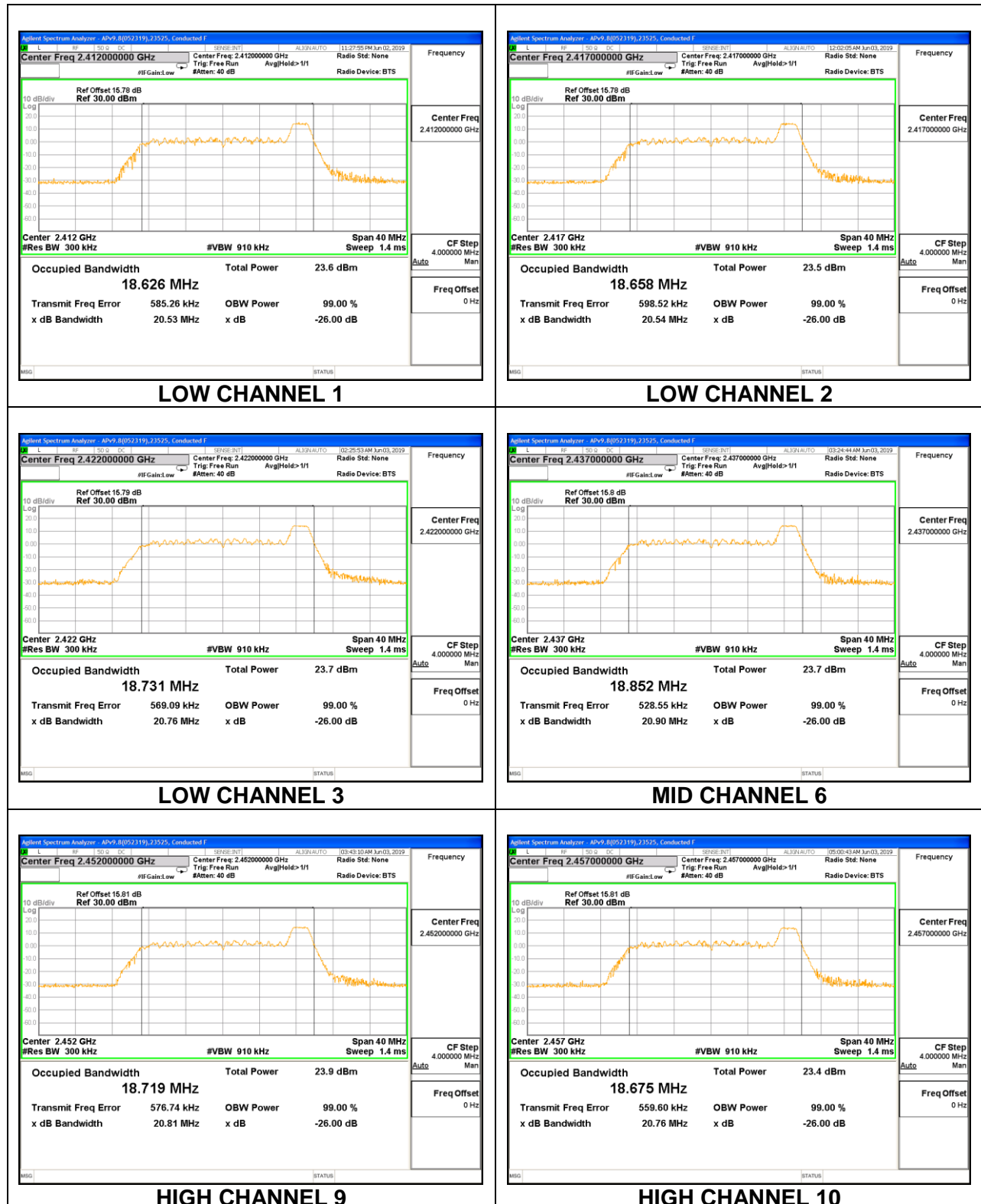| Occupied Bandwidth	Total Power	23.4 dBm
18.675 MHz		
Transmit Freq Error	559.60 kHz	OBW Power	99.00 %
x dB Bandwidth	20.76 MHz	x dB	-26.00 dB

HIGH CHANNEL 11

HIGH CHANNEL 12

HIGH CHANNEL 13
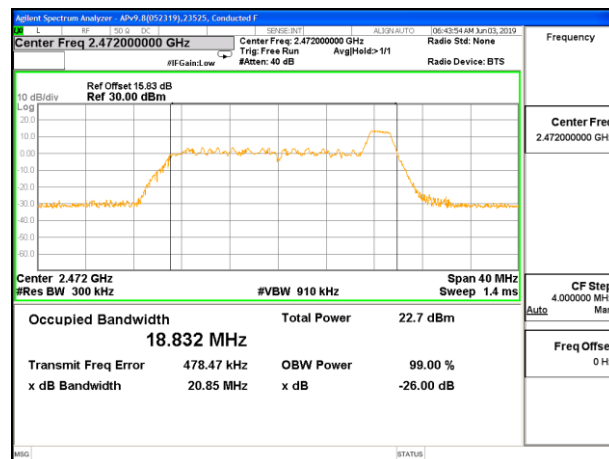
Antenna 3, LEGACY SISO MODE: 242-Tones, RU index 61

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low 1	2412	18.8710
Low 2	2417	18.9650
Low 3	2422	18.9620
Mid 6	2437	19.0260
High 9	2452	18.9500
High 10	2457	18.9650
High 11	2462	18.9760
High 12	2467	19.0040
High 13	2472	18.9030

LOW CHANNEL 1

LOW CHANNEL 2

LOW CHANNEL 3
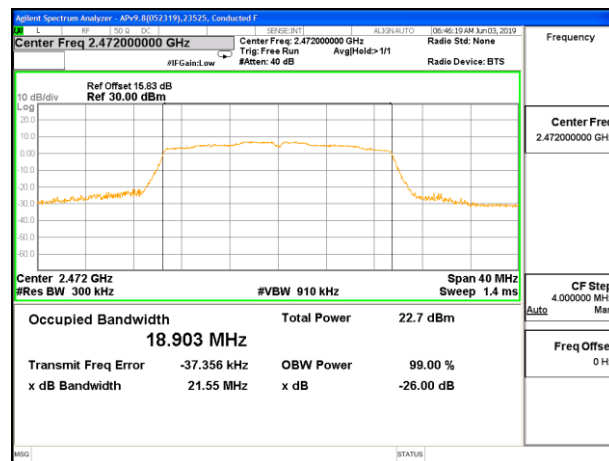

MID CHANNEL 6

HIGH CHANNEL 9
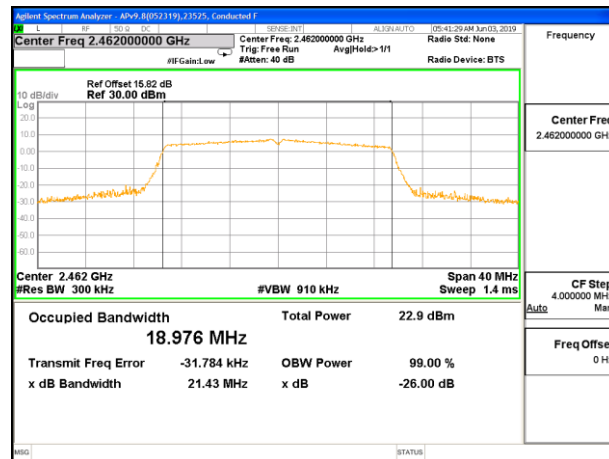
HIGH CHANNEL 10
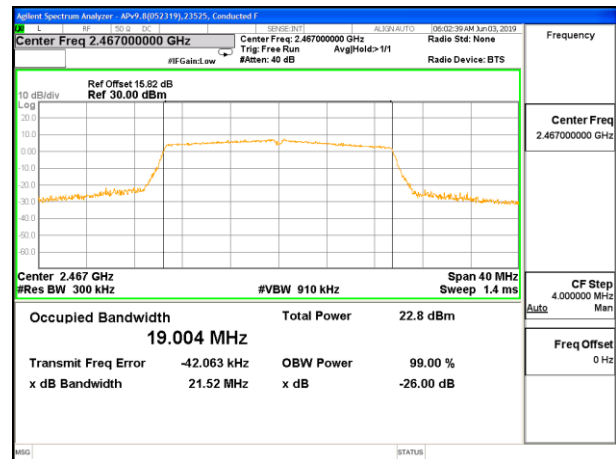
HIGH CHANNEL 11

HIGH CHANNEL 12

HIGH CHANNEL 13

8.2.1. 802.11ax HE20 OFDMA MODE 2TX

Antenna 4 + Antenna 3 2TX MODE: 26-Tones, RU Index 0

Channel	Frequency (MHz)	99% Bandwidth Ant 4 (MHz)	99% Bandwidth Ant 3 (MHz)
Low 1	2412	18.5460	18.4060
Low 2	2417	18.5590	18.3860
Low 3	2422	18.5150	18.3770
Low 4	2427	18.4460	18.4310
Mid 6	2437	18.4580	18.3630
High 9	2452	18.6020	18.3450
High 10	2457	18.5140	18.2160
High 11	2462	18.3530	18.2010
High 12	2467	18.2570	18.1630
High 13	2472	18.4060	18.2110

LOW CHANNEL 1 ANT 4

LOW CHANNEL 1 ANT 3

LOW CHANNEL 2 ANT 4

LOW CHANNEL 2 ANT 3

LOW CHANNEL 3 ANT 4

LOW CHANNEL 3 ANT 3

LOW CHANNEL 4 ANT 4

LOW CHANNEL 4 ANT 3

MID CHANNEL 6 ANT 4

MID CHANNEL 6 ANT 3

HIGH CHANNEL 9 ANT 4

HIGH CHANNEL 9 ANT 3

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