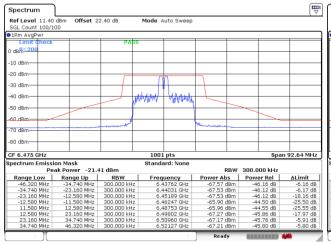
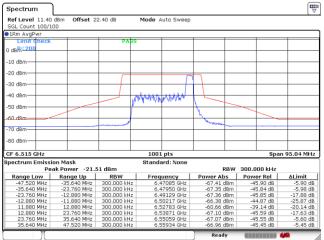


### Plot on Channel 6475MHz



#### Plot on Channel 6515MHz



Date: 18.APR.2023 19:38:47

### Plot on Channel 6535MHz

#### Plot on Channel 6695MHz Spectrum Spectrum Ref Level 11.50 dBm Offset 22.50 dB Mode Auto Sweep Ref Level 11.60 dBm Offset 22.60 dB Mode Auto Sweep 1Rm AvgP n Avgi theck DARS UANS o dB<mark>R<20</mark> ) dB -10 dBm -10 dBr 20 dBm 20 dBr -30 dBm -30 dBm walk 40 dBm And the second 40 dBm the hard state -50 dBm 50 dBm 60 dBr 50 dBr -70 dBm-70 dBm-80 dBm 80 dBm CF 6.535 GHz 1001 pts CF 6.695 GH 1001 pts Span Span 9 pectrum Emission Mask Peak Powe pectrum Emission Mask Peak Power rd: N -20.85 d RBW 300.000 kHz -20.98 d RBW 300.000 kH RBW 300.000 300.000 300.000 300.000 300.000 300.000 300.000 300.000 Power Abs RBW Range Low -34,290 MH Freque ncy -67.15 dBm -46.30 dB Range Low -33,750 MH Frequency Power Rel ∆Limit -45.720 MHz -34.290 MHz -22.860 MHz -12.430 MHz 11.430 MHz 12.430 MHz 22.860 MHz 34.290 MHz 300.000 300.000 300.000 300.000 300.000 300.000 300.000 -46.30 dB -46.25 dB -37.98 dB -37.74 dB -45.17 dB -45.99 dB -45.97 dB -45.98 dB -6.30 dB -6.29 dB 17.74 dB 18.74 dB 26.17 dB 18.03 dB -6.11 dB -5.98 dB 5.65149 GHz 5.66129 GHz 5.67263 GHz 5.68280 GHz 5.70720 GHz 5.71746 GHz 5.72870 GHz 5.72915 GHz -45.85 dB -45.97 dB -45.94 dB -44.36 dB -44.41 dB -46.12 dB -46.19 dB -46.15 dB .95 dBn .92 dBn .34 dBn .39 dBn .10 dBn kHz kHz kHz kHz kHz kHz kHz MHZ MHZ MHZ MHZ MHZ MHZ kH2 kH2 kH2 kH2 kH2 kH2 MHZ MHZ MHZ MHZ MHZ MHZ GHZ GHZ GHZ GHZ GHZ GHZ MH2 MH2 MH2 MH2 MH2 MH2 MH2 -66 -65 -65 -67 -67 dE dE dE dE -56.59 dbm -66.01 dBm -66.84 dBm -66.82 dBm -66.83 dBm 17 dBm 13 dBm 290 Ready Ready

Date: 18.APR.2023 19:50:42

Date: 18.APR.2023 20:01:47

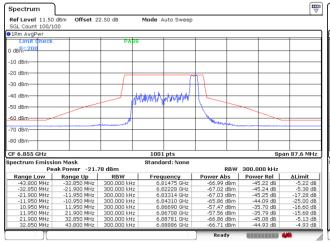
Date: 18.APR.2023 19:41:52

∆Limit

dB dB dB dB dB dB dB

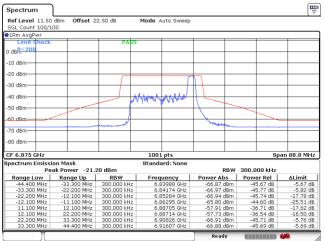


### Plot on Channel 6855MHz



Ready

#### Plot on Channel 6875MHz



Date: 18.APR.2023 20:14:05

Spectrum

) dB<mark>R≤2</mark>

-10 dBm

20 dBri

-30 dBm

40 dBm

-50 dBm-

50 dBi

70 dBm

80 dBm

CF 6.895 GHz

Range Low

Ref Level 11.40 dBm

IRm AvgPwr Limit Check

### Plot on Channel 6895MHz

#### Plot on Channel 6995MHz Spectrum Offset 22.40 dB Mode Auto Sweep Ref Level 11.40 dBm Offset 22.40 dB Mode Auto Sweep DARS theck DARS dBR -10 dBr 20 dBr 30 dBri madaan لينهيه and the second sec 40 dBri 50 dBm 50 dBri 70 dBm 80 dBm 1001 pts CF 6.995 GH 1001 pts Span Span pectrum Emission Mask Peak Powe pectrum Emission Mask Peak Power Standard: N rd: N -20.48 d RBW 300.000 kHz -18.99 d RBW 300.000 kHz RSW 300.000 kH2 Power Rel -66.93 dBm -66.93 dBm -46.43 dB -66.94 dBm -46.45 dB -55.89 dBm -35.41 dB -56.48 dBm -36.00 dB -65.97 dBm -46.53 dB -67.07 dBm -46.59 dB -67.01 dBm -46.59 dB RBW 300.000 300.000 300.000 300.000 300.000 300.000 300.000 300.000 RBW -33,300 MH Frequency Range Low -33.030 MH Frequency -66.95 dBm -47.96 dB **∆Limit** 300.000 300.000 300.000 300.000 300.000 300.000 300.000 5.85384 GHz 5.86174 GHz 5.88286 GHz 5.88295 GHz 5.90705 GHz 5.91707 GHz 5.92826 GHz 5.93527 GHz 5.95937 GHz 5.96201 GHz 5.97302 GHz 5.98304 GHz 7.00696 GHz 7.01290 GHz 7.02799 GHz 7.02887 GHz -66.95 dBm -67.04 dBm -66.99 dBm -64.56 dBm -66.94 dBm -66.94 dBm -71.37 dBm -71.26 dBm -47.96 dB -48.05 dB -48.00 dB -45.57 dB -47.95 dB -47.59 dB -52.38 dB -52.27 dB kHz kHz kHz kHz kHz kHz kHz MHZ MHZ MHZ MHZ MHZ MHZ kH2 kH2 kH2 kH2 kH2 kH2 MHZ MHZ MHZ MHZ MHZ MHZ dB dB dB dB dB dB dB dB MH2 MH2 MH2 MH2 MH2 MH2 MH2

Date: 18.APR.2023 20:21:54

Date: 18.APR.2023 20:31:55

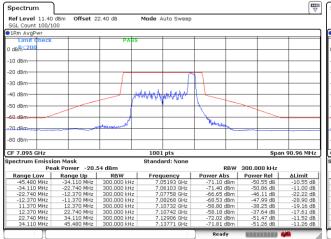
MHz MHz MHz MHz MHz MHz

Date: 18.APR.2023 20:53:34

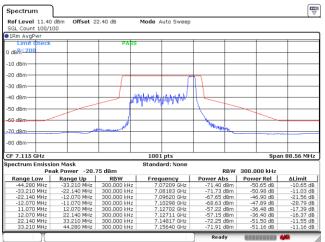
Ready



#### Plot on Channel 7095MHz



#### Plot on Channel 7115MHz



Date: 18.APR.2023 21:03:21

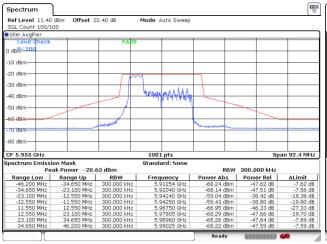
Date: 18.APR.2023 21:23:10



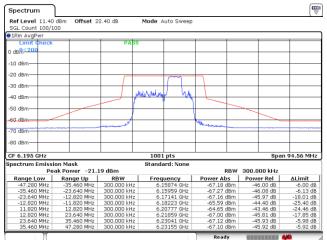
EUT Mode :

802.11ax HE20 52RU

#### Plot on Channel 5955MHz

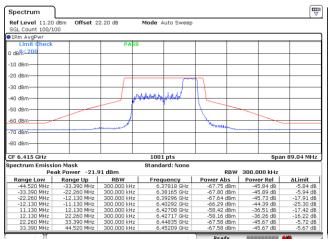


### Plot on Channel 6195MHz



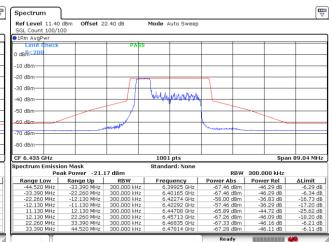
Date: 18.APR.2023 17:39:42

#### Plot on Channel 6415MHz



#### Plot on Channel 6435MHz

Date: 18.APR.2023 18:09:07

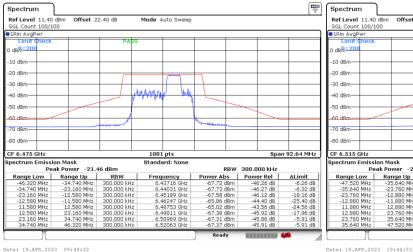


Date: 18.APR.2023 19:06:15

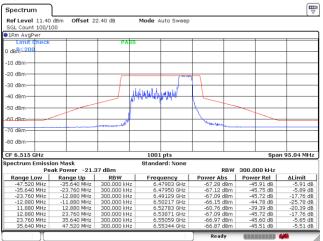
Date: 18.APR.2023 19:32:41



#### Plot on Channel 6475MHz



#### Plot on Channel 6515MHz



Date: 19.APR.2023 09:49:22

### Plot on Channel 6535MHz

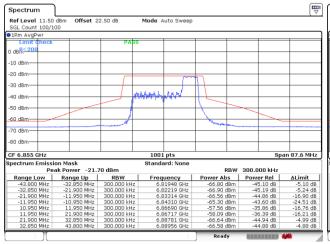
#### Plot on Channel 6695MHz Spectrum Spectrum Ref Level 11.50 dBm Offset 22.50 dB Mode Auto Sweep Ref Level 11.60 dBm Offset 22.60 dB Mode Auto Sweep 1Rm AvgP n Avgi theck DARS VANS o dB<mark>R<20</mark> ) dB -10 dBm -10 dBr 20 dBm 20 dBr -30 dBm -30 dBm inihahhini 40 dBm 40 dBm -50 dBm -50 dBm 60 dBi 50 dBm -70 dBm-70 dBm-80 dBm 80 dBm CF 6.535 GHz 1001 pts CF 6.695 GH 1001 pts Span Span 9 pectrum Emission Mask Peak Powe pectrum Emission Mask Peak Power ndard: N -20.36 d 300.000 kHz -21.58 d 300.000 kH RBW RBW RBW 300.000 300.000 300.000 300.000 300.000 300.000 300.000 300.000 RBW Range Low -34,290 MH Frequency Power Abs Power Rel Range Low Range Up -33,750 MH; Frequency Power Abs Power Rel -45.720 MHz -34.290 MHz -22.860 MHz -12.430 MHz 11.430 MHz 12.430 MHz 22.860 MHz 34.290 MHz -46.63 dB -46.63 dB -38.53 dB -38.21 dB -45.14 dB -46.20 dB -46.58 dB -46.39 dB 6.63 dB 6.67 dB 9.21 dB 6.14 dB 8.30 dB 6.62 dB 6.39 dB 5.65086 GHz 5.66129 GHz 5.67254 GHz 5.68280 GHz 5.70720 GHz 5.71746 GHz 5.72870 GHz 5.73006 GHz -66.73 dBm -66.75 dBm -66.71 dBm -64.19 dBm -65.16 dBm -66.88 dBm -67.01 dBm -67.02 dBm .15 dB .17 dB .13 dB .61 dB .58 dB .30 dB .43 dB .45 dB 300.000 300.000 300.000 300.000 300.000 300.000 kHz kHz kHz kHz kHz kHz kHz MHZ MHZ MHZ MHZ MHZ MHZ kH2 kH2 kH2 kH2 kH2 kH2 -45. -42. -43. -45. -45. -45. MHZ MHZ MHZ MHZ MHZ MHZ GHZ GHZ GHZ GHZ GHZ GHZ MH2 MH2 MH2 MH2 MH2 MH2 MH2 dE dB dB dB dB 5.57 dBm 5.50 dBm 5.56 dBm 5.93 dBm 5.75 dBm -65 -66 -66 Peady Ready

Date: 18.APR.2023 19:53:16

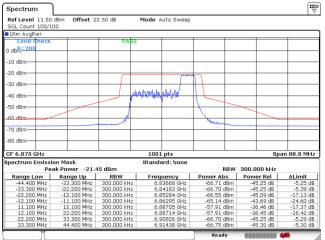
Date: 18.APR.2023 20:04:42



#### Plot on Channel 6855MHz



#### Plot on Channel 6875MHz



Date: 18.APR.2023 20:16:49

### Plot on Channel 6895MHz

#### Plot on Channel 6995MHz Spectrum Spectrum Ref Level 11.40 dBm Offset 22.40 dB Mode Auto Sweep Ref Level 11.40 dBm Offset 22.40 dB Mode Auto Sweep IRm AvgPwr Limit Check DARS theck DARS ) dB<mark>R≤2</mark> dBR -10 dBm -10 dBr 20 dBri 20 dBr -30 dBm 30 dBri manya MANA 40 dBm 40 dBri -50 dBm-50 dBm 50 dBi 50 dBi 70 dBm 70 dBm 80 dBm 80 dBm CF 6.895 GHz 1001 pts CF 6.995 GH 1001 pts Span Span pectrum Emission Mask Peak Powe pectrum Emission Mask Peak Power Standard: N d: Ne -20.30 d 300.000 kHz -19.79 d RBW 300.000 kHz RBW Power Abs Power Rel 1-66.92 dBm -47.14 dB -67.00 dBm -47.21 dB -66.64 dBm -47.05 dB -67.01 dBm -47.32 dB -67.11 dBm -47.33 dB -67.115 dBm -51.37 dB -71.15 dBm -51.37 dB RBW 300.000 300.000 300.000 300.000 300.000 300.000 300.000 300.000 RBW Range Low -33,300 MH Freque Power Abs Power Rel Range Low -33.030 MH Frequency ncy ∆Limit ∆Limit 300.000 300.000 300.000 300.000 300.000 300.000 300.000 .85810 .86183 .88286 .88295 .90705 .91716 .92817 .93163 -46.27 dB -46.33 dB -36.18 dB -36.30 dB -44.90 dB -46.23 dB -46.58 dB -46.53 dB 5.96078 GHz 5.96201 GHz 5.97302 GHz 5.98304 GHz 7.00696 GHz 7.01343 GHz 7.02790 GHz 7.02975 GHz .63 dBm .48 dBm .60 dBm .20 dBm .53 dBm kHz kHz kHz kHz kHz kHz kHz MHZ MHZ MHZ MHZ MHZ MHZ kH2 kH2 kH2 kH2 kH2 kH2 MHz GHZ GHZ GHZ GHZ GHZ -66 -56 -65 -66 dB dB dB dB dB dB MH2 MH2 MH2 MH2 MH2 MH2 MH2 dB dB dB dB dB dB dBm Peady Ready

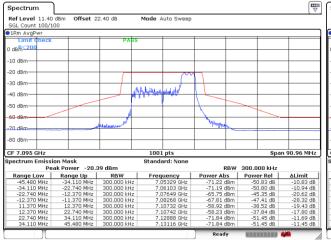
Date: 18.APR.2023 20:43:51

Date: 18.APR.2023 20:56:12

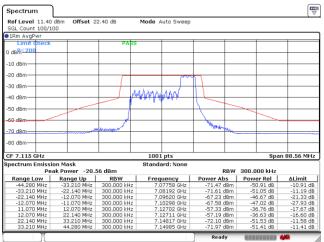
Date: 18.APR.2023 20:26:09



#### Plot on Channel 7095MHz



#### Plot on Channel 7115MHz



Date: 18.APR.2023 21:06:52

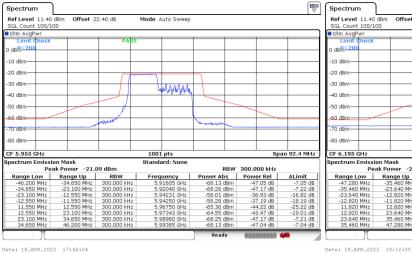
Date: 18.APR.2023 21:29:35



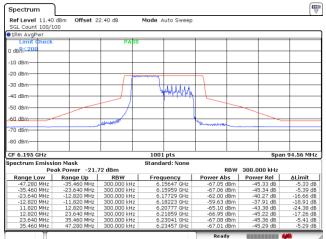
EUT Mode :

802.11ax HE20 106RU

### Plot on Channel 5955MHz

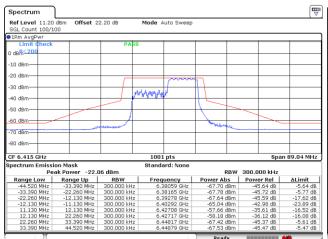


### Plot on Channel 6195MHz

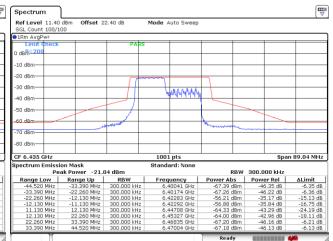


Date: 18.APR.2023 17:42:04

#### Plot on Channel 6415MHz



#### Plot on Channel 6435MHz

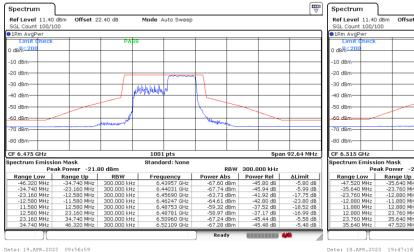


Date: 18.APR.2023 19:21:10

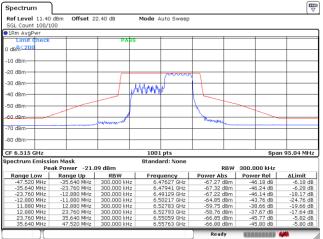
Date: 18.APR.2023 19:35:29



#### Plot on Channel 6475MHz



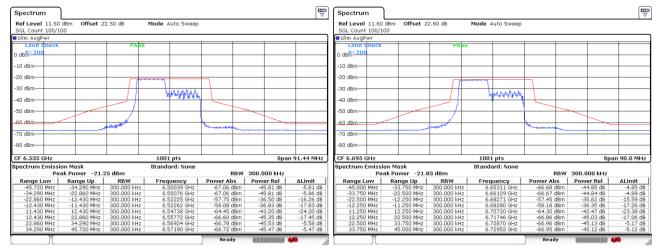
#### Plot on Channel 6515MHz



Date: 19.APR.2023 09:56:59

### Plot on Channel 6535MHz

# Plot on Channel 6695MHz

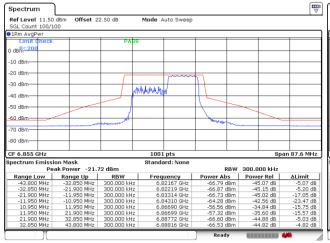


Date: 18.APR.2023 19:58:12

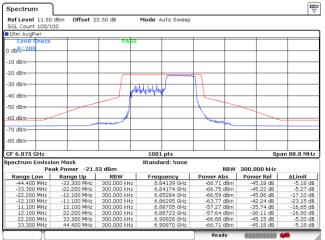
Date: 18.APR.2023 20:07:53



### Plot on Channel 6855MHz



#### Plot on Channel 6875MHz



Date: 18.APR.2023 20:19:15

### Plot on Channel 6895MHz

#### Plot on Channel 6995MHz Spectrum Spectrum Ref Level 11.40 dBm Offset 22.40 dB Mode Auto Sweep Ref Level 11.40 dBm Offset 22.40 dB Mode Auto Sweep 1Rm AvgPwr Limit Check Rm AvgPwr DARS DARS ) dB<mark>R≤2</mark> dBR -10 dBm -10 dBr 20 dBm 20 dBr -30 dBm 30 dBri windulah www. 40 dBm 40 dBri -50 dBm-50 dBm 50 dBr 50 dBi 70 dBm 70 dBm 80 dBm 80 dBm CF 6.895 GHz 1001 pts CF 6.995 GH 1001 pts Span Span pectrum Emission Mask Peak Powe pectrum Emission Mask Peak Power dard: N -20.57 di RBW 300.000 kHz -20.56 d 300.000 kH RBW RBW 300.000 300.000 300.000 300.000 300.000 300.000 300.000 300.000 RBW 300.000 300.000 300.000 300.000 300.000 300.000 300.000 300.000 Range Low -33,300 MH Freque Power Abs Power Rel Range Low Range Up -33.030 MH; Frequency Power Abs Power Rel тсу .86130 .86192 .88277 .88295 .90705 .91716 .92826 .92905 -46.01 dB -45.93 dB -35.64 dB -35.60 dB -43.28 dB -46.10 dB -46.15 dB -46.25 dB 5.96034 GHz 5.96210 GHz 5.98268 GHz 5.98304 GHz 7.00696 GHz 7.01290 GHz 7.02799 GHz 7.02816 GHz -66.86 dBm -66.77 dBm -56.47 dBm -55.49 dBm -65.73 dBm -65.39 dBm -71.07 dBm -70.97 dBm -46.30 dB -46.21 dB -35.91 dB -34.93 dB -45.17 dB -44.83 dB -50.51 dB -50.41 dB dBm dBm dBm kHz kHz kHz kHz kHz kHz kHz 17 dB 54 dB 51 dB 19 dB 14 dB 20 dB 25 dB MHZ MHZ MHZ MHZ MHZ MHZ kH2 kH2 kH2 kH2 kH2 kH2 MHz GHZ GHZ GHZ GHZ GHZ -66 -56 -63 -66 -66 MH2 MH2 MH2 MH2 MH2 MH2 MH2 dB dB dB dB dB dB dBm 39 dBm 07 dBm 97 dBm Peady Ready

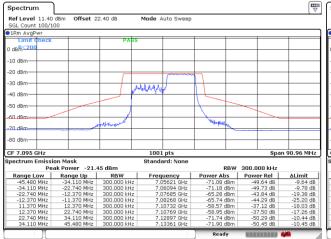
Date: 18.APR.2023 20:48:20

Date: 18.APR.2023 21:00:07

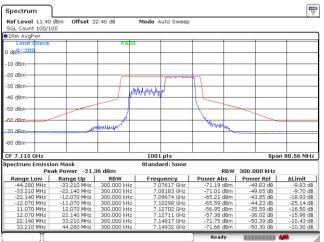
Date: 18.APR.2023 20:28:25



#### Plot on Channel 7095MHz



#### Plot on Channel 7115MHz



Date: 18.APR.2023 21:17:10

Date: 18.APR.2023 21:32:34

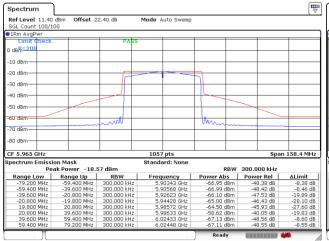




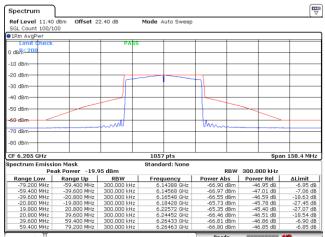
EUT Mode :

802.11ax HE40

### Plot on Channel 5965MHz

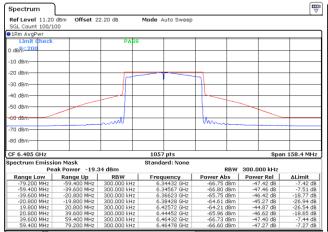


#### Plot on Channel 6205MHz



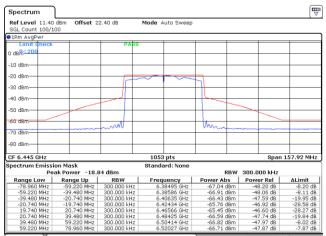
Date: 18.APR.2023 09:36:00

# Plot on Channel 6405MHz



### Plot on Channel 6445MHz

Date: 18.APR.2023 09:38:53



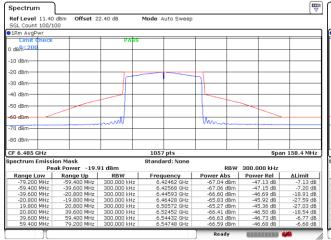
Date: 18.APR.2023 09:43:17

Date: 18.APR.2023 09:50:14

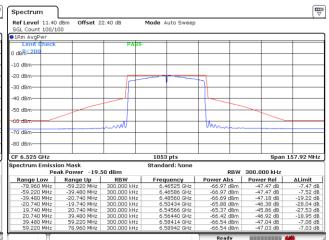
Page Number: 87 of 126Issue Date: May 31, 2023Report Version: 02



#### Plot on Channel 6485MHz

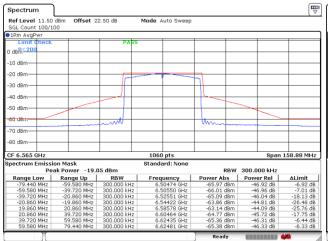


#### Plot on Channel 6525MHz



#### Plot on Channel 6565MHz

Date: 18.APR.2023 09:54:20



#### Spectrum Ref Level 11.60 Offset 22.60 dB Mode Auto Sweep . Iock PASS < 21 dB -10 dB 20 dBri -30 dBr 40 dBri -50 dBr the 1050 pts Standard: No RBW 300.000 kH: RBW 300.000 kHz Frequency Power Abs Power Rel 5.62558 GHz 5.62619 GHz 5.64647 GHz 5.66440 GHz 5.70560 GHz 5.72428 GHz 5.74396 GHz 5.74532 GHz -47.06 dB -47.10 dB -46.62 dB -46.38 dB -45.91 dB -47.05 dB -47.47 dB -47.53 dB -66.01 dBn -66.04 dBn -65.57 dBn -65.33 dBn -64.86 dBn -66.00 dBn -66.42 dBn -66.48 dBn Ready

Date: 18.APR.2023 10:02:35

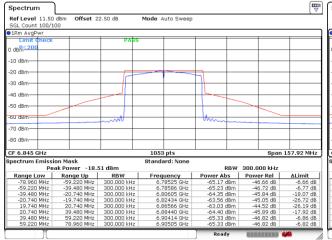
Date: 18.APR.2023 10:07:34

Date: 18.APR.2023 09:58:01

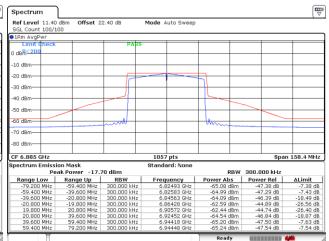
Plot on Channel 6685MHz



#### Plot on Channel 6845MHz

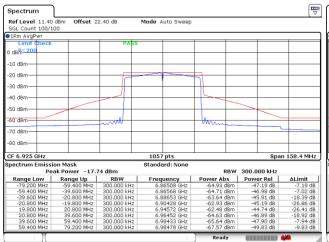


#### Plot on Channel 6885MHz



#### Plot on Channel 6925MHz

Date: 18.APR.2023 10:13:27



#### Spectrum Ref Level 11.40 dBm SGL Count 100/100 Offset 22.40 dB Mode Auto Sweep heck PASS dBM<20 -10 dBr 20 dBri 30 dBi 40 dBr 50 dBr 60 dBm - Al th 70 dBr -80 dBm CF 7.005 GHz 1047 pts T-JUDS GH2 Peak Power -17.36 Range Low Range Low 7-78.400 MH2 -58.860 MH2 558.860 MH2 -39.240 MH2 -39.240 MH2 -39.240 MH2 -20.620 MH2 -20.620 MH2 20.620 MH2 -20.620 MH2 20.620 MH2 -39.240 MH2 20.620 MH2 -30.620 MH2 20.620 MH2 -30.620 MH2 58.660 MH2 70.400 MH2 58.660 MH2 70.400 MH2 Standard: No -17.36 dB 300.000 kHz RBW RBW 300.000 kHz Frequency Power Abs Power Rel 5.94380 GHz 5.94622 GHz 5.96659 GHz 5.98446 GHz 7.02554 GHz 7.02554 GHz 7.02630 GHz 7.06378 GHz 7.06394 GHz -48.00 dB -47.88 dB -46.78 dB -46.28 dB -47.98 dB -47.98 dB -40.52 dB -51.44 dB -51.48 dB -65. -64. -63. -65. -57. dE dE dE $\frac{11.48}{11.49}$ Ready

Date: 18.APR.2023 10:51:20

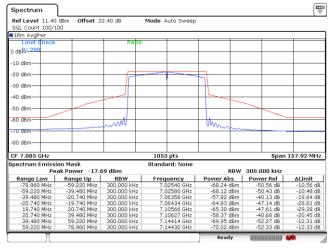
Date: 18.APR.2023 10:55:37

Date: 18.APR.2023 10:40:48

Plot on Channel 7005MHz



## Plot on Channel 7085MHz



Date: 18.APR.2023 10:59:01

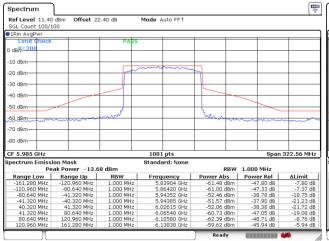




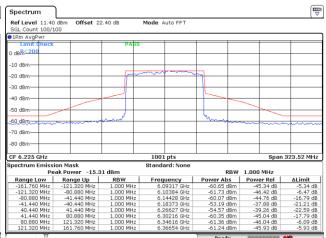
EUT Mode :

802.11ax HE80

#### Plot on Channel 5985MHz



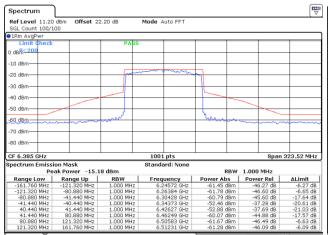
#### Plot on Channel 6225MHz



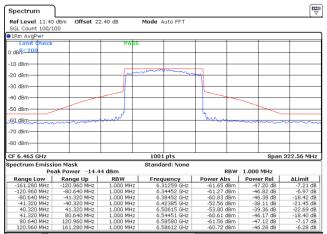
Date: 18.APR.2023 11:20:08

Date: 18.APR.2023 11:28:26

#### Plot on Channel 6385MHz



### Plot on Channel 6465MHz



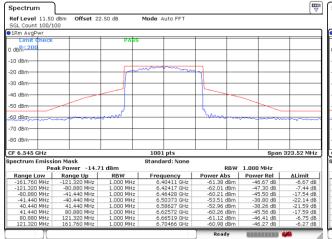
Date: 18.APR.2023 11:31:50

Date: 18.APR.2023 11:48:46

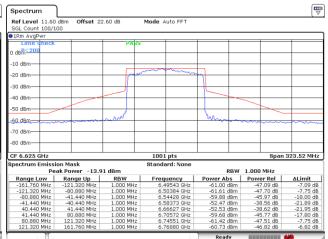
Page Number: 91 of 126Issue Date: May 31, 2023Report Version: 02



#### Plot on Channel 6545MHz

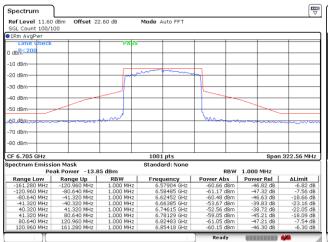


#### Plot on Channel 6625MHz



#### Plot on Channel 6705MHz

Date: 18.APR.2023 11:51:29



#### Spectrum Ref Level 11.50 Offset 22.50 dB Mode Auto FFT heck PASS < 21 dB -10 dB 20 dBr 30 dBr 40 dBri 50 dBri .8m. .3m. 60 dBn 1001 pts ndard: No 1.000 MHz -13.34 dB RBW Power Abs RBV Frequency 6.65446 GH Power Re RBW ..000 MHz .66384 .70428 .74373 -48. -46. -39. -37. GHZ GHZ GHZ GHZ GHZ GHZ 53 dE 92 dE 38 dE 97 dE 22 dE 07 dE 07 dE dE dE dE .82627 .86540 .90325 .91910 .41 dBr Ready

Date: 18.APR.2023 11:57:56

Date: 18.APR.2023 15:12:09

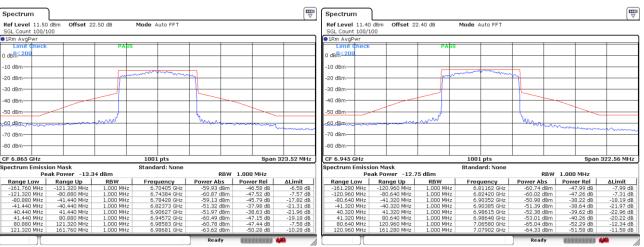
Date: 18.APR.2023 11:55:09

Plot on Channel 6785MHz



#### Plot on Channel 6865MHz





Date: 18.APR.2023 12:04:57

Date: 18.APR.2023 12:09:49

### Plot on Channel 7025MHz

Spectrum	)					[ <b></b>
Ref Level 11.40	dBm Offset 2	2.40 dB	Mode Auto FFT			
GL Count 100/1	00					
1Rm AvaPwr						
Limit Check		PASS				-
dBR<200						
10 dBm						
			mon			
20 dBm		- m				
30 dBm						
40 dBm						
50 dBm					_	
50. dBm	~~~	in		has		
TO BELD	0.0000000000000000000000000000000000000			harrow	money	
70 dBm					1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
30 dBm						
F 7.025 GHz			1001 pts		Span	322.56 MH
ectrum Emissi	on Mask		Standard: None			
Pe	ak Power -12.7	77 dBm		RBW	1.000 MHz	
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	∆Limit
-161.280 MHz	-120.960 MHz	1.000 MHz	6.87872 GHz	-59.64 dBm	-46.87 dB	-6.87 di
	-80.640 MHz	1.000 MHz	6.90420 GHz	-60.10 dBm	-47.34 dB	-7.38 di
-120.960 MHz			6.94452 GHz	-57.76 dBm	-44.99 dB	-17.03 di
-120.960 MHz -80.640 MHz	-41.320 MHz	1.000 MHz				
-120.960 MHz -80.640 MHz -41.320 MHz	-40.320 MHz	1.000 MHz	6.98385 GHz	-50.57 dBm	-37.80 dB	
-120.960 MHz -80.640 MHz -41.320 MHz 40.320 MHz	-40.320 MHz 41.320 MHz	1.000 MHz 1.000 MHz	6.98385 GHz 7.06615 GHz	-50.57 dBm -50.54 dBm	-37.80 dB -37.78 dB	-21.11 di
-120.960 MHz -80.640 MHz -41.320 MHz	-40.320 MHz	1.000 MHz	6.98385 GHz	-50.57 dBm	-37.80 dB	-21.11 di
-120.960 MHz -80.640 MHz -41.320 MHz 40.320 MHz 41.320 MHz 80.640 MHz	-40.320 MHz 41.320 MHz 80.640 MHz 120.960 MHz	1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz	6.98385 GHz 7.06615 GHz 7.06648 GHz 7.14515 GHz	-50.57 dBm -50.54 dBm -51.96 dBm -65.60 dBm	-37.80 dB -37.78 dB -39.19 dB -52.83 dB	-21.11 di -19.16 di -13.07 di
-120.960 MHz -80.640 MHz -41.320 MHz 40.320 MHz 41.320 MHz	-40.320 MHz 41.320 MHz 80.640 MHz	1.000 MHz 1.000 MHz 1.000 MHz	6.98385 GHz 7.06615 GHz 7.06648 GHz	-50.57 dBm -50.54 dBm -51.96 dBm	-37.80 dB -37.78 dB -39.19 dB	-21.14 dE -21.11 dE -19.16 dE -13.07 dE -12.70 dE

Date: 18.APR.2023 14:59:10



# 3.5 Contention Based Protocol

# 3.5.1 Limit of Contention Based Protocol

## <FCC 14-30 CFR 15.407>

(d)(6) Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band must employ a contention-based protocol.

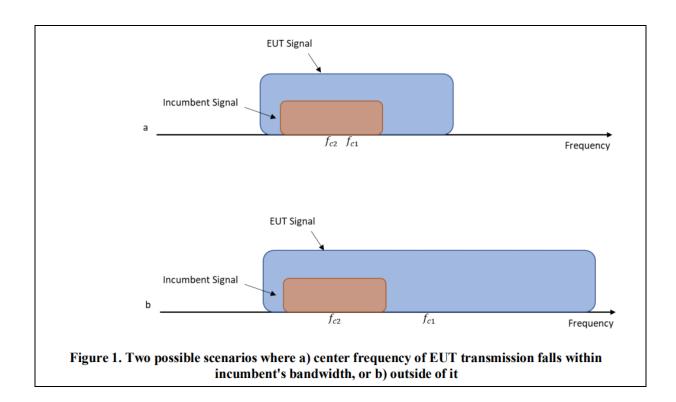
### FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	Once	Tune incumbent and EUT transmissions ( $f_{c1} = f_{c2}$ )
$BW_{Inc} < BW_{EUT} \le 2BW_{Inc}$	Once	Incumbent transmission is contained within $BW_{EUT}$
$2BW_{Inc} < BW_{EUT} \le 4BW_{Inc}$	Twice. Incumbent transmission is contained within <i>BW<sub>EUT</sub></i>	Incumbent transmission is located as closely as possible to the lower edge and upper edge, respectively, of the EUT channel
$BW_{EUT} > 4BW_{Inc}$	Three times	Incumbent transmission is located as closely as possible to the lower edge of the EUT channel, in the middle of EUT channel, and as closely as possible to the upper edge of the EUT channel

fc2: Center frequency of simulated incumbent signal





# 3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

# 3.5.3 Test Procedures

The testing follows FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01. Section I) Contention Based Protocol

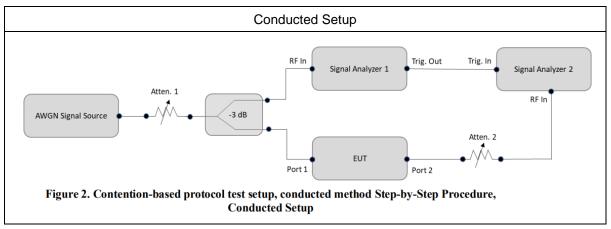
Conducted method Step-by-Step Procedure, Conducted Setup

- 1. Configure the EUT to transmit with a constant duty cycle.
- 2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
- 3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT.
- 4. Connect the output port of the EUT to the signal analyzer 2, as shown in test setup Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
- 5. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
- 6. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
- 7. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in test setup Figure 2.
- 8. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.



- 9. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
- 10. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
- 11. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.
- 12. For the contention-based protocol test where only one channel in each supported sub-band needs to be tested. The narrowest and widest bandwidth in each channel shall be measured EUT was driven in MIMO mode, the interferer level was injected to both chains to monitor the performance, while the interferer level is determined according the lowest antenna gain among both antennas (i.e, lower interferer level).

# 3.5.4 Test Setup



# 3.5.5 Support Unit used in test configuration and system

Instrument	Brand Name	Model No.	Characteristics	
WLAN AP	ASUS	GT-AXE11000	Dual Band AP	
Notebook	Acer	N15C1	LAN	

# 3.5.6 Minimum Antenna gain for Contention Based Protocol Test

	<unii-5>: [5.0] dBi</unii-5>
CPD Antonno Coin	<unii-6>: [5.0] dBi</unii-6>
CBP Antenna Gain	<unii-7>: [5.0] dBi</unii-7>
	<unii-8>: [4.0] dBi</unii-8>

Note: The CBP antenna gain is considering the minimum gain from closed mode as worse case.



# 3.5.7 Test Summary of Contention Based Protocol Test

Teet	Test Engineer : Rebecca Li		<b>Temperature :</b> 21.6~24.1℃					
lest	ingineer :	Rebecca	LI		Relativ	e Humidity :	50.4~54.9%	
Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Margin (dB)
				CE 01	100	-62	-70.91	8.91
				-65.91		Result: Stop	Transmission	
	6135	20	6135	-72.91	< 90	-62	-77.91	15.91
	0155	20	0133	-72.91		Result: Minin	nal Operation	
				-73.91	0	-62	-78.91	16.91
				-73.91	Result: Normal Operation			
			6110	-61.3	100	-62	-66.30	4.3
					Result: Stop Transmission			
				-73.30	< 90	-62	-78.30	16.30
						Result: Minin	nal Operation	
				-74.30	0	-62	-79.30	17.30
UNII						Result: Norm	al Operation	
Band 5			6145	-61.27	100	-62	-66.27	4.27
					Result: Stop Transmission			
	6145	80		-64.27	< 90	-62	-69.27	7.27
	0110	00	0110	01.27	Result: Minimal Operation			
				-65.27	0	-62	-70.27	8.27
				00.27		Result: Norm	al Operation	
				-70.26	100	-62	-75.26	13.26
				10.20		Result: Stop	Transmission	
			6180	-73.26	< 90	-62	-78.26	16.26
				, 0.20		Result: Minin	nal Operation	
				-74.26	0	-62	-79.26	17.26
				20		Result: Norm	al Operation	

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (5 dBi).

Note 2: The antenna gain has included the path loss between RF connector and antenna.



Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Margin (dB)																
				-65.34	100	-62	-70.34	8.34																
				00.04		Result: Stop	Transmission																	
	6455	20	6455	-72.34	< 90	-62	-77.34	15.34																
	0400	155 20	0455	-72.34		Result: Minin	nal Operation																	
				-73.34	0	-62	-78.34	16.34																
				-73.34		Result: Norm	nal Operation																	
				-61.4	100	-62	-66.40	4.4																
					-01.4	Result: Stop Transmission																		
			6430	-72.40	< 90	-62	-77.40	15.40																
			0430	0430 -72.40	Result: Minimal Operation																			
										-73.40	0	-62	-78.40	16.40										
UNII						-73.40		Result: Norm	al Operation															
Band 6			6465	6465	6465	-60.3	100	-62	-65.30	3.3														
						6465	6465	6465	6465	6465	6465	6465	6465	6465	6465	6465	6465	6465	6465	00.0	Result: Stop Transmission			
	6465	80																		6465	6465	6465	-63.30	< 90
	0400	00											-03.30		Result: Minin	nal Operation								
				64.00	0	-62	-69.30	7.30																
				-64.30		Result: Norm	nal Operation																	
				-69.07	100	-62	-74.07	12.07																
			-09.07		Result: Stop	Transmission																		
			6500	-72.07	< 90	-62	-77.07	15.07																
			0000	-12.01		Result: Minin	nal Operation																	
				-73.07	0	-62	-78.07	16.07																
				-13.01		Result: Norm	al Operation																	

**Note 1:** Adjusted Power = Injected AWGN Level - minimum antenna gain (5 dBi).

Note 2: The antenna gain has included the path loss between RF connector and antenna.



Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Margin (dB)																
				-64.26	100	-62	-69.26	7.26																
				01.20		Result: Stop	Transmission																	
	6695	20	6695	-71.26	< 90	-62	-76.26	14.26																
	0000	20	0000	71.20		Result: Minin	nal Operation																	
				-72.26	0	-62	-77.26	15.26																
				72.20		Result: Norm	nal Operation																	
				-62.22	100	-62	-67.22	5.22																
				-02.22	Result: Stop Transmission																			
			6670	6670		70.00	< 90	-62	-77.22	15.22														
						Result: Minimal Operation																		
														-73.22	0	-62	-78.22	16.22						
UNII					-13.22		Result: Norm	nal Operation																
Band 7			6705	6705	6705	6705	-59.61	100	-62	-64.61	2.61													
							6705	6705	6705	6705	6705	6705	6705	6705	6705	6705	6705	6705	6705	-59.01		Result: Stop Transmission		
	6705	80																		6705	6705	6705	CO C1	< 90
	6705	00													-62.61		Result: Minin	nal Operation						
				62.64	0	-62	-68.61	6.61																
				-63.61		Result: Norm	nal Operation																	
				C0 50	100	-62	-73.52	11.52																
				-68.52		Result: Stop	Transmission																	
			6740	71.50	< 90	-62	-76.52	14.52																
			0740	-71.52		Result: Minin	nal Operation																	
				70.50	0	-62	-77.52	15.52																
				-72.52		Result: Norm	nal Operation																	

Note 1: Adjusted Power = Injected AWGN Level - minimum antenna gain (5 dBi).

Note 2: The antenna gain has included the path loss between RF connector and antenna.



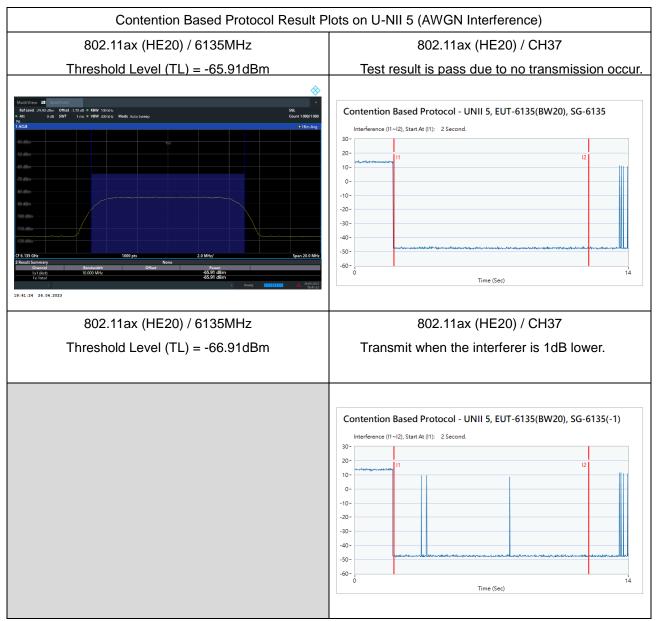
Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Margin (dB)																
				-64.43	100	-62	-68.43	6.43																
					Result: Stop	Transmission																		
	7015	20	7015	-72.43	< 90	-62	-76.43	14.43																
	7015	20	7015	-72.45		Result: Minin	nal Operation																	
				-73.43	0	-62	-77.43	15.43																
				-73.43		Result: Norm	nal Operation																	
				-65.32	100	-62	-69.32	7.32																
				-03.32		Result: Stop Transmission																		
			6990 7025	6000	6000	6000	6000	0 -73.32	< 90	-62	-77.32	15.32												
				-73.32	Result: Minimal Operation																			
				7025	7025	7025	7025	7025							-74.32	0	-62	-78.32	16.32					
UNII									-74.52		Result: Norm	nal Operation												
Band 8									-59.53	100	-62	-63.53	1.53											
									7025	7025	7025	7025	7025	7025	7025	7025	7025	7025	7025	00.00		Result: Stop	Transmission	
	7025	80																		7025	7025	7025	-63.53	< 90
	1025	00									-05.55		Result: Minin	nal Operation										
				-64.53	0	-62	-68.53	6.53																
				-04.00		Result: Norm	nal Operation																	
				-68.68	100	-62	-72.68	10.68																
				-00.00		Result: Stop	Transmission																	
			7060	-72.68	< 90	-62	-76.68	14.68																
			1000	-12.00		Result: Minin	nal Operation																	
				-73.68	0	-62	-77.68	15.68																
				-10.00		Result: Norm	nal Operation																	

**Note 1:** Adjusted Power = Injected AWGN Level - minimum antenna gain (4 dBi).

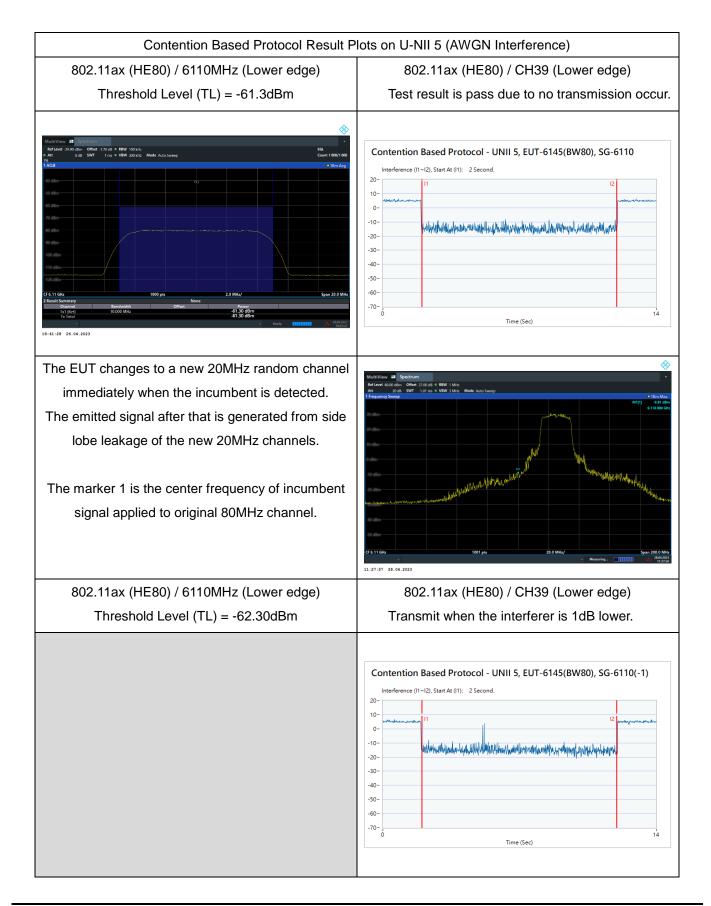
Note 2: The antenna gain has included the path loss between RF connector and antenna.



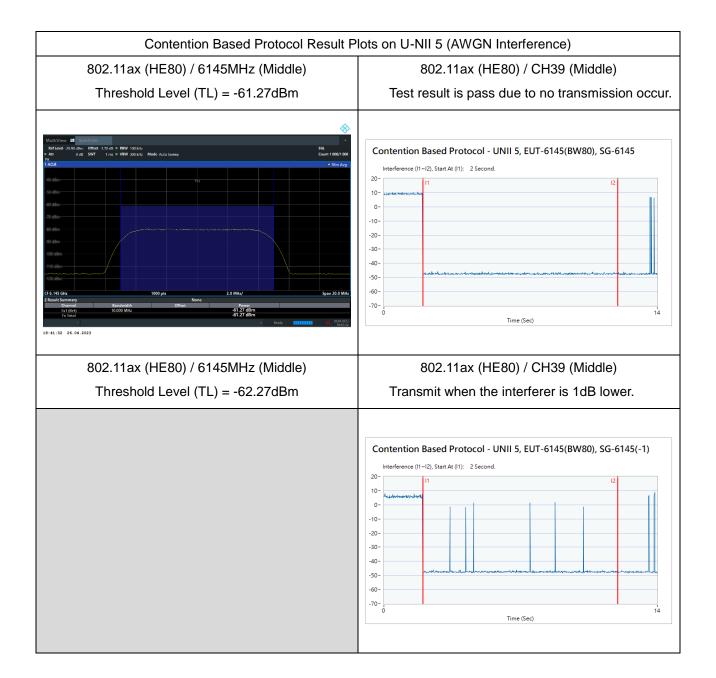
# 3.5.8 Test Plots of Contention Based Protocol Test









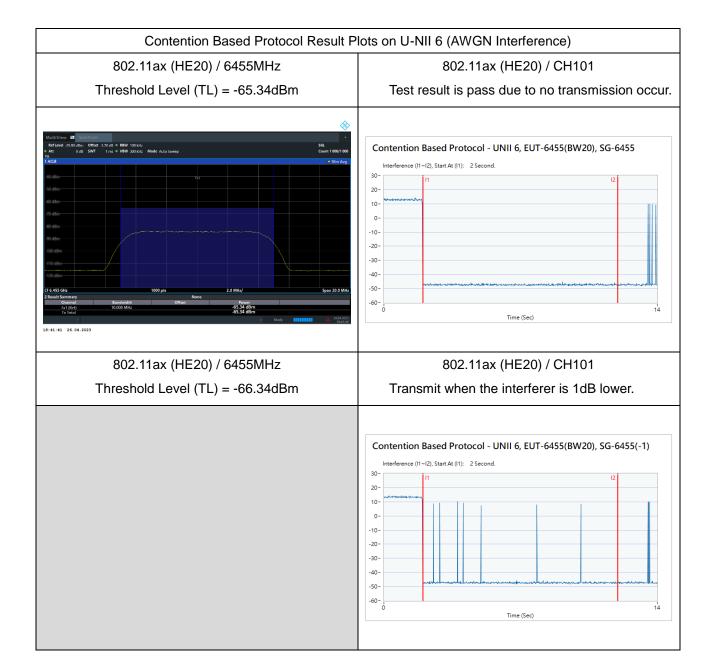




Contention Based Protocol Result P	lots on U-NII 5 (AWGN Interference)
802.11ax (HE80) / 6180MHz (Upper edge)	802.11ax (HE80) / CH39 (Upper edge)
Threshold Level (TL) = -70.26dBm	Test result is pass due to no transmission occur
Authors       Bit       Static       Static	Contention Based Protocol - UNII 5, EUT-6145(BW80), SG-6180           Interference (11-12), Start At (11): 2 Second.           10-           -
<ul> <li>The EUT changes to a new 40MHz random channel immediately when the incumbent is detected.</li> <li>The emitted signal after that is generated from side lobe leakage of the new 40MHz channels.</li> <li>The marker 1 is the center frequency of incumbent signal applied to original 80MHz channel.</li> </ul>	MultiView         18         Spectrum         •           MultiView         20         SPEC         -
802.11ax (HE80) / 6180MHz (Upper edge)	802.11ax (HE80) / CH39 (Upper edge)
Threshold Level (TL) = -71.26dBm	Transmit when the interferer is 1dB lower.
	Contention Based Protocol - UNII 5, EUT-6145(BW80), SG-6180(-1)           Interference (11-12), Start At (11): 2 Second.           0-

: 104 of 126 : May 31, 2023 : 02



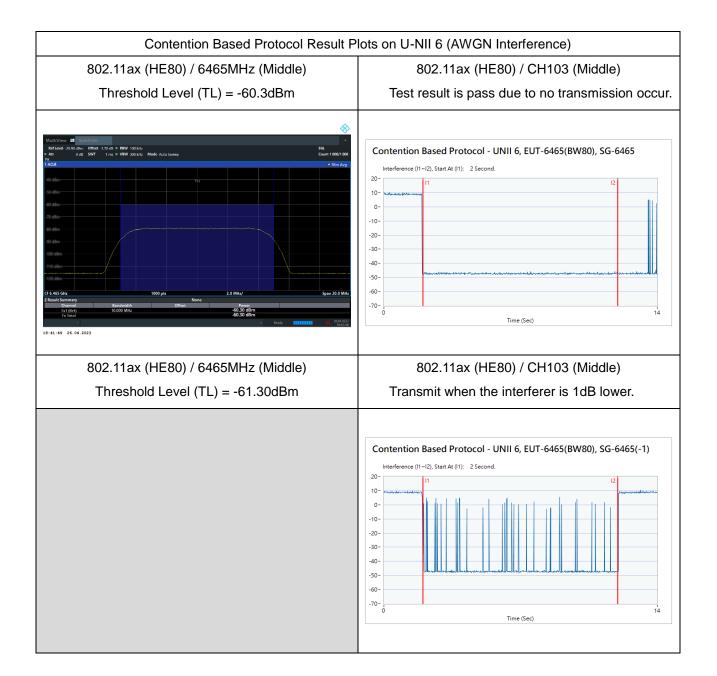




Contention Based Protocol Result P	lots on U-NII 6 (AWGN Interference)
802.11ax (HE80) / 6430MHz (Lower edge)	802.11ax (HE80) / CH103 (Lower edge)
Threshold Level (TL) = -61.4dBm	Test result is pass due to no transmission occur.
Add Meet       State         Add Meet       State         Add       State <td< td=""><td>Contention Based Protocol - UNII 6, EUT-6465(BW80), SG-6430 Interference (II-I2), Start At (II): 2 Second.  10- 10- 10- 10- 10- 10- 10- 10- 10- 10</td></td<>	Contention Based Protocol - UNII 6, EUT-6465(BW80), SG-6430 Interference (II-I2), Start At (II): 2 Second.  10- 10- 10- 10- 10- 10- 10- 10- 10- 10
<ul> <li>The EUT changes to a new 20MHz random channel immediately when the incumbent is detected.</li> <li>The emitted signal after that is generated from side lobe leakage of the new 20MHz channels.</li> <li>The marker 1 is the center frequency of incumbent signal applied to original 80MHz channel.</li> </ul>	MultiView         Spectrum         • ISo Max           Refered 0.00.dm         Obst VT 2.00.ml * NW 1MUL         • ISo Max         • ISo Max           If requery Sector         • ISo Max         • ISo Max         • ISo Max           If requery Sector         • ISo Max         • ISo Max         • ISo Max           If requery Sector         • ISo Max         • ISo Max         • ISo Max           If requery Sector         • ISo Max         • ISo Max         • ISo Max           If requery Sector         • ISo Max         • ISo Max         • ISo Max           If requery Sector         • ISo Max         • ISo Max         • ISo Max           If requery Sector         • ISo Max         • ISo Max         • ISo Max           If c is Gram         • ISo Max         • ISo Max         • ISo Max           If c is Gram         • ISo Max         • ISo Max         • ISo Max
802.11ax (HE80) / 6430MHz (Lower edge)	802.11ax (HE80) / CH103 (Lower edge)
Threshold Level (TL) = -62.40dBm	Transmit when the interferer is 1dB lower.
	Contention Based Protocol - UNII 6, EUT-6465(BW80), SG-6430(-1)           Interference (11-12), Start At (11): 2. Second.           0-

: May 31, 2023



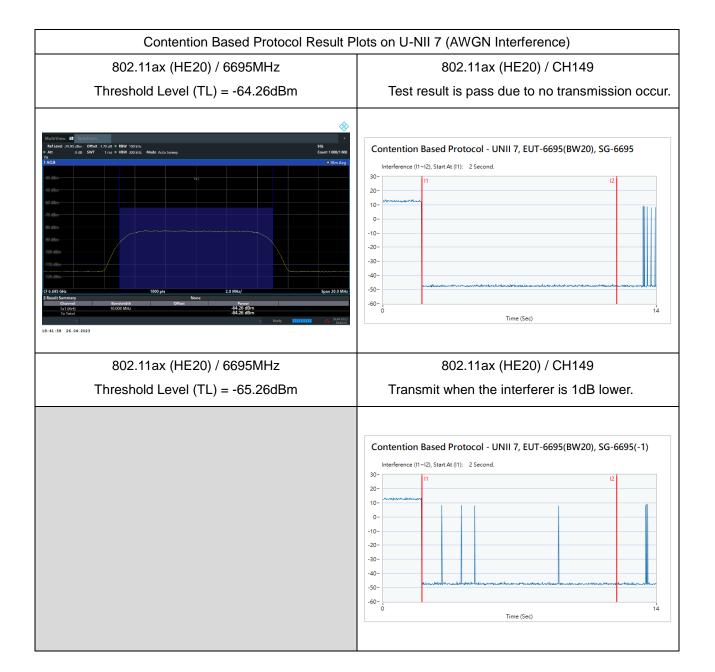




Contention Based Protocol Result P	lots on U-NII 6 (AWGN Interference)
802.11ax (HE80) / 6500MHz (Upper edge)	802.11ax (HE80) / CH103 (Upper edge)
Threshold Level (TL) = -69.07dBm	Test result is pass due to no transmission occur
Multiver if the stand of the first of the stand of t	Contention Based Protocol - UNII 6, EUT-6465(BW80), SG-6500           Interference (I1-I2), Start At (I1): 2 Second.           20-           10-           0-           -0- </td
<ul> <li>The EUT changes to a new 40MHz random channel immediately when the incumbent is detected.</li> <li>The emitted signal after that is generated from side lobe leakage of the new 40MHz channels.</li> <li>The marker 1 is the center frequency of incumbent signal applied to original 80MHz channel.</li> </ul>	MultiView at Spectrum  MultiView at Spectrum
802.11ax (HE80) / 6580MHz (Upper edge)	802.11ax (HE80) / CH103 (Upper edge)
Threshold Level (TL) = -70.07dBm	Transmit when the interferer is 1dB lower.
	Contention Based Protocol - UNII 6, EUT-6465(BW80), SG-6500(-1)           Interference (11-i2), Start At (11): 2 Second.           20-           10-           -     <

: 108 of 126 : May 31, 2023 : 02







Contention Based Protocol Result P	lots on U-NII 7 (AWGN Interference)
802.11ax (HE80) / 6670MHz (Lower edge)	802.11ax (HE80) / CH151 (Lower edge)
Threshold Level (TL) = -62.22dBm	Test result is pass due to no transmission occur
NUMber       Sectors         NUMber       Sectors         NUMber       Sectors         NUMber       Sectors         NUMber       Sectors         Sectors       Sectors         Secto	Contention Based Protocol - UNII 7, EUT-6705(BW80), SG-6670           Interference (11-12), Start At (11): 2 Second.           20-           10-           -
<ul> <li>The EUT changes to a new 20MHz random channel immediately when the incumbent is detected.</li> <li>The emitted signal after that is generated from side lobe leakage of the new 20MHz channels.</li> <li>The marker 1 is the center frequency of incumbent signal applied to original 80MHz channel.</li> </ul>	MultiView         Spectrum           Refered 6300.dim         0H MI 11 Mill           Mill         0H MI 11 Mill           Trequery Sweep         0H MI 11 Mill           Mill         0H Mill           Mill
802.11ax (HE80) / 6670MHz (Lower edge)	802.11ax (HE80) / CH151 (Lower edge)
Threshold Level (TL) = -63.22dBm	Transmit when the interferer is 1dB lower.
	Contention Based Protocol - UNII 7, EUT-6705(BW80), SG-6670(-1)           Interference (11-12), Start At (11): 2 Second.           10-           0-



