

Fig. 128 Conducted Spurious Emission (802.11ax-HE20-RU106-right, Ch149, 1 GHz-40 GHz)

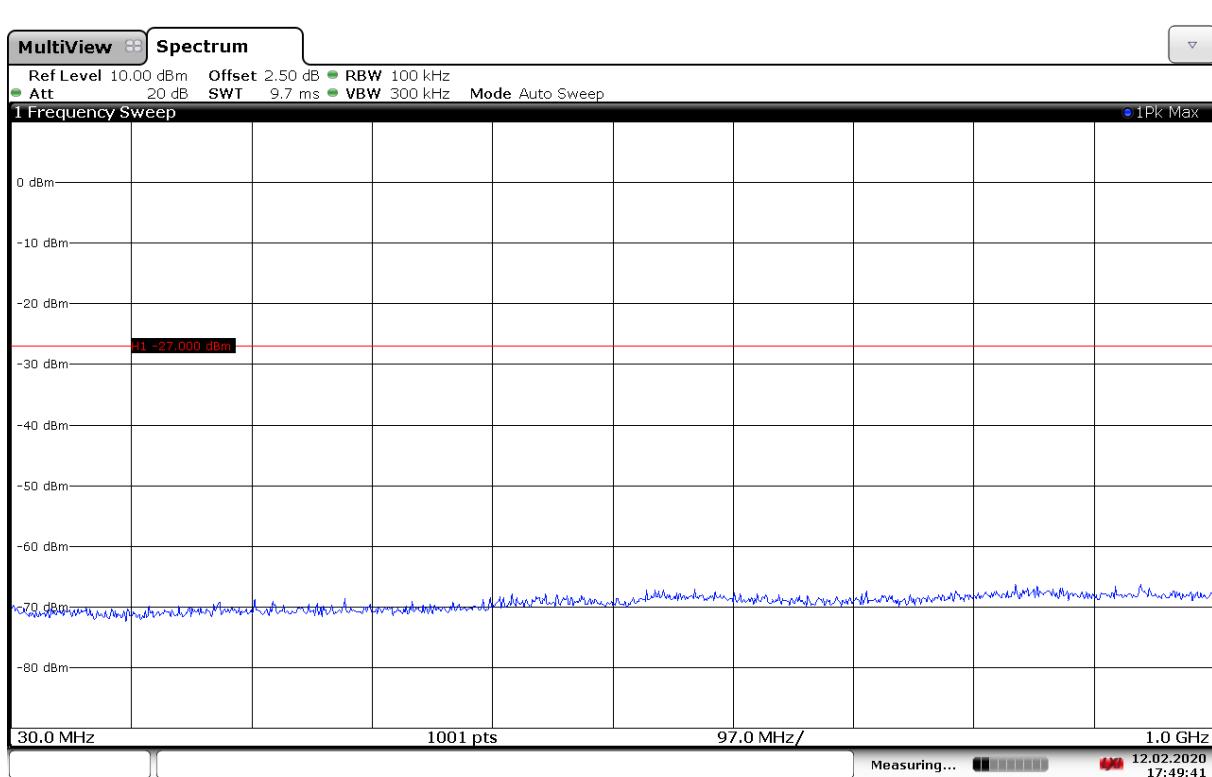
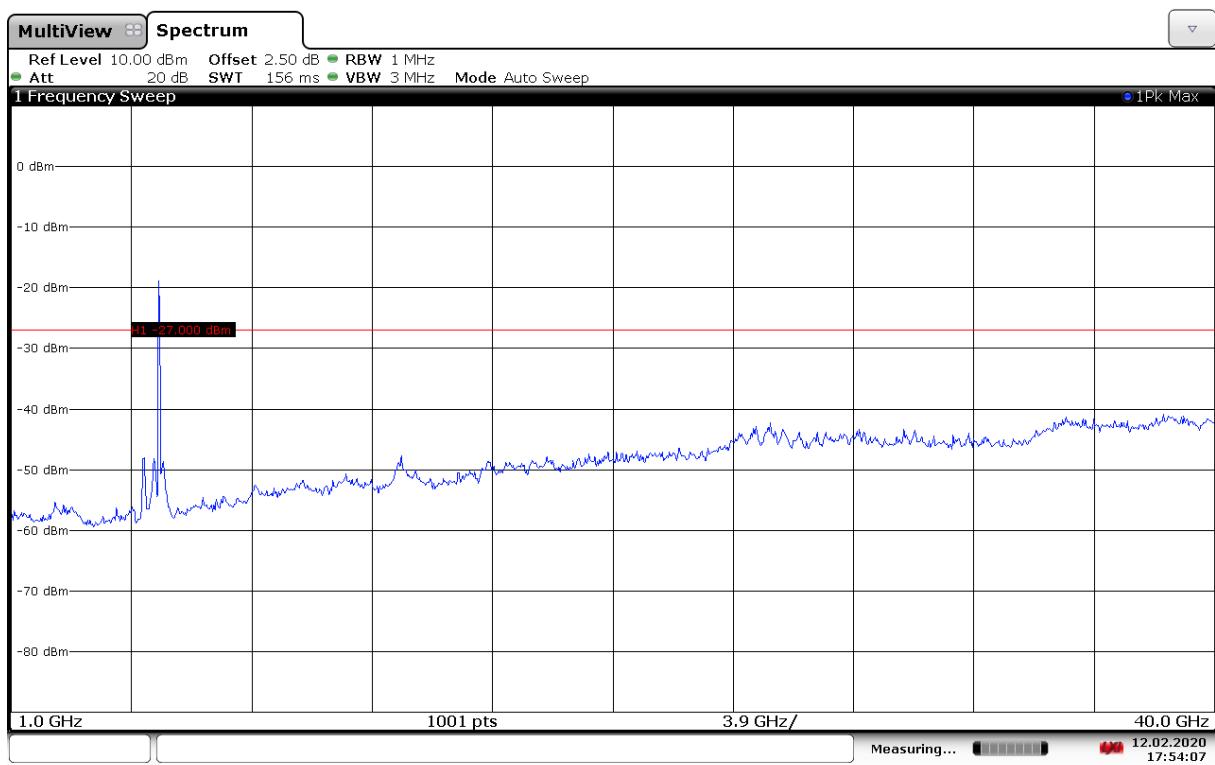
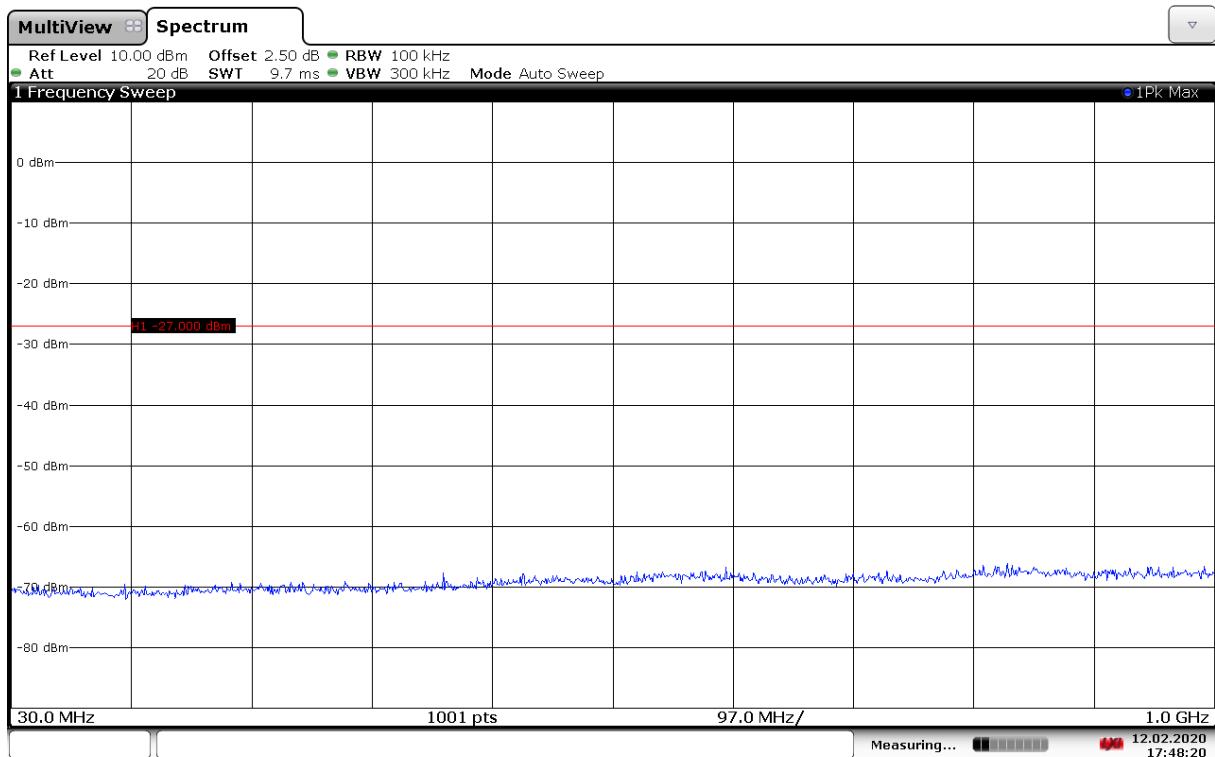


Fig. 129 Conducted Spurious Emission (802.11ax-HE20-RU106-right, Ch157, 30 MHz-1 GHz)



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Fig. 130 Conducted Spurious Emission (802.11ax-HE20-RU106-right, Ch157, 1 GHz-40 GHz)

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Fig. 131 Conducted Spurious Emission (802.11ax-HE20-RU106-right, Ch161, 30 MHz-1 GHz)

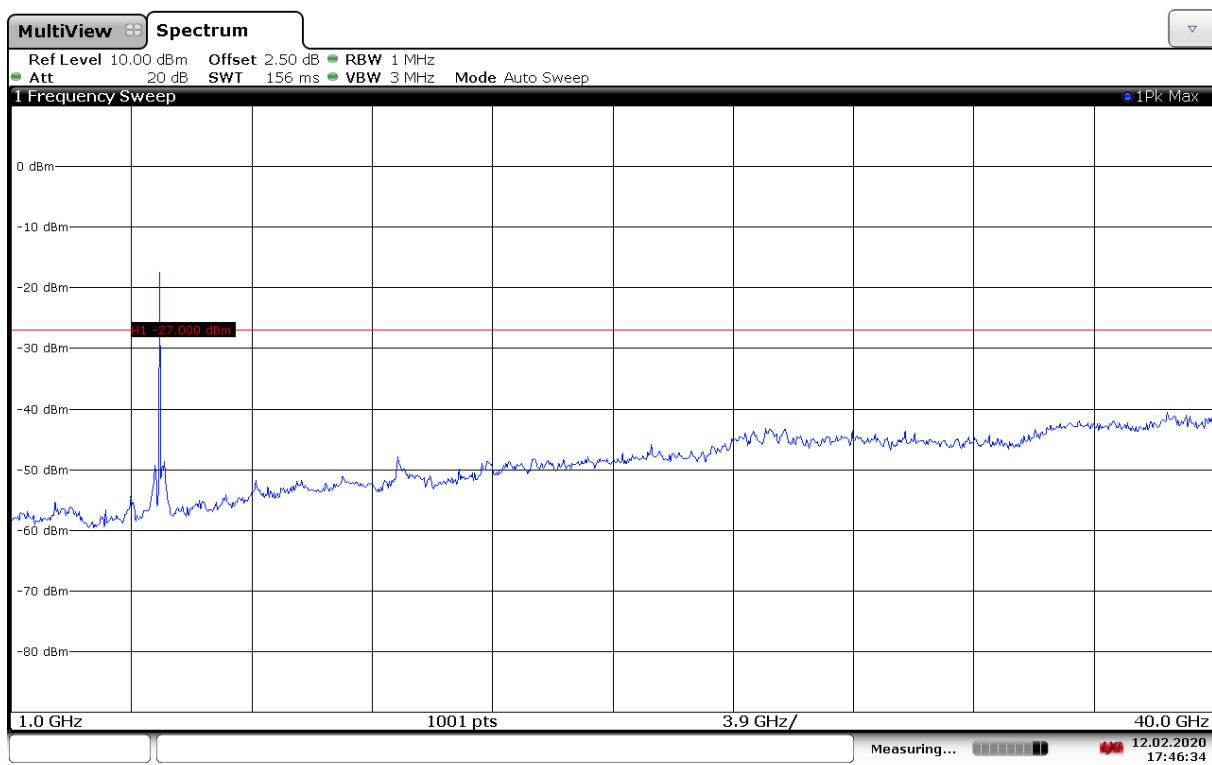


Fig. 132 Conducted Spurious Emission (802.11ax-HE20-RU106-right, Ch161, 1 GHz-40 GHz)

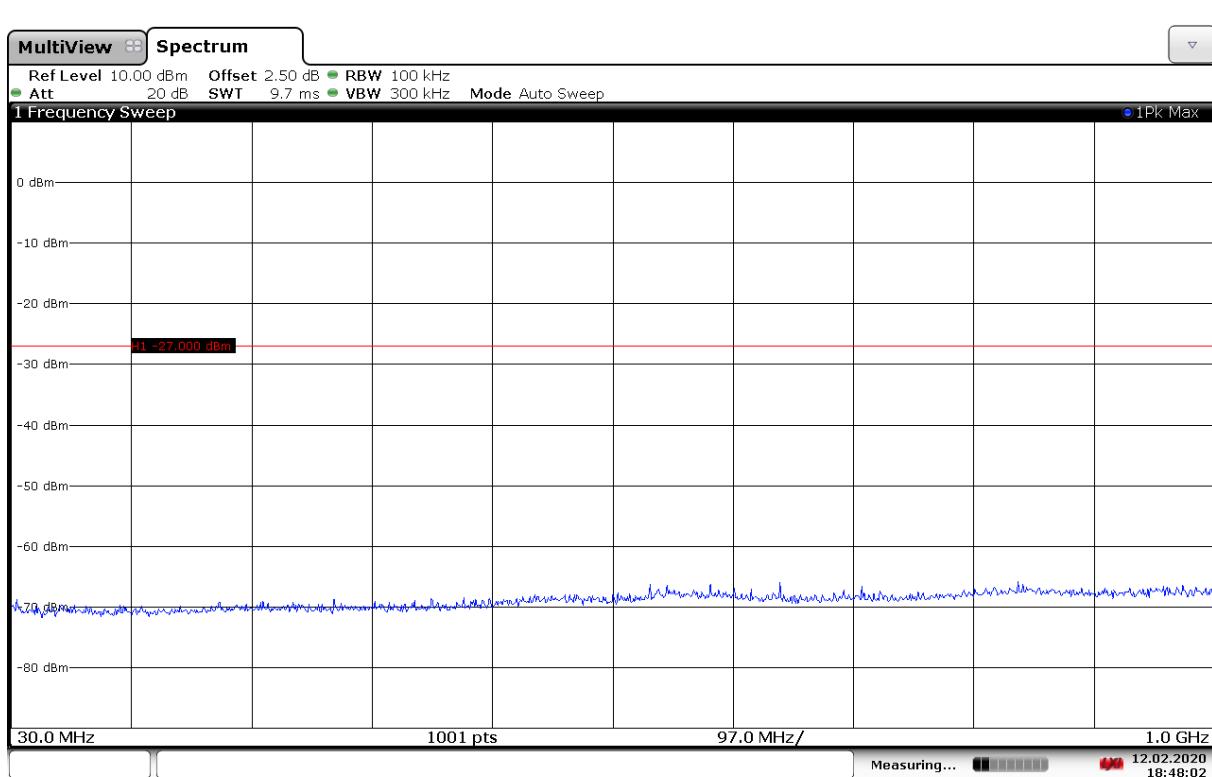


Fig. 133 Conducted Spurious Emission (802.11ax-HE40-RU242-right, Ch151, 30 MHz-1 GHz)

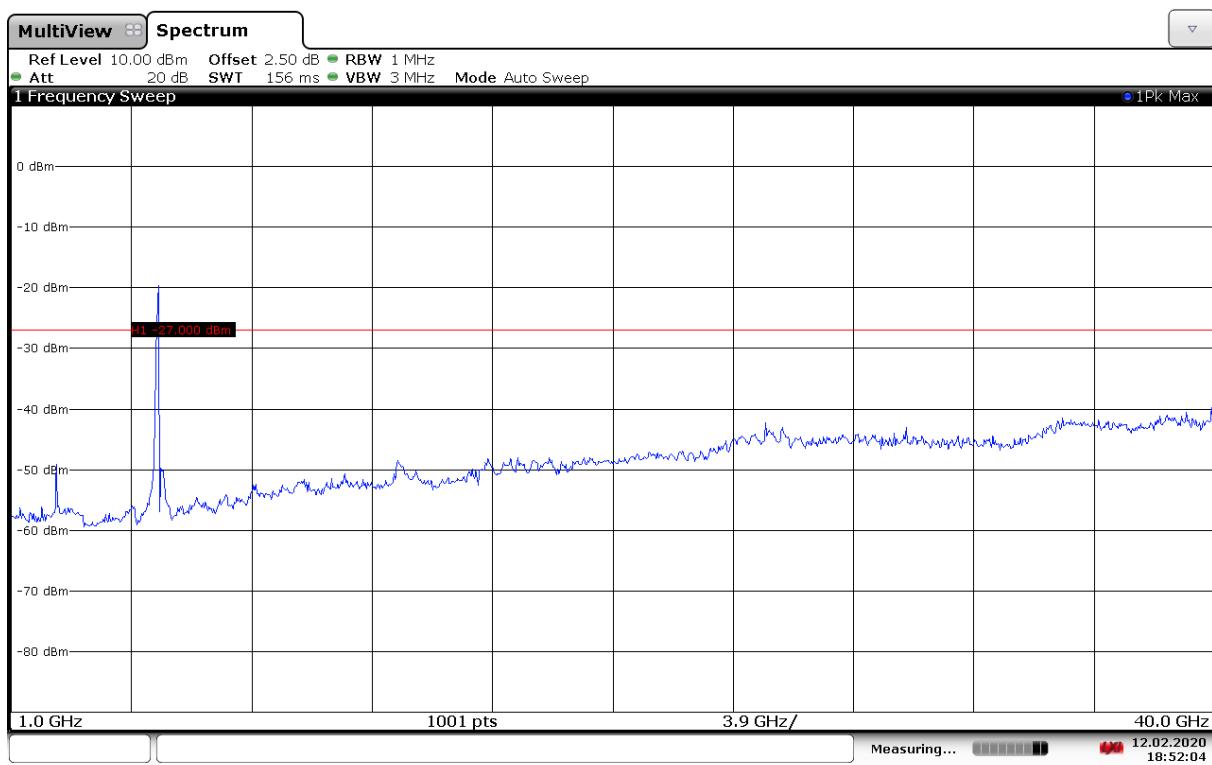


Fig. 134 Conducted Spurious Emission (802.11ax-HE40-RU242-right, Ch151, 1 GHz-40 GHz)

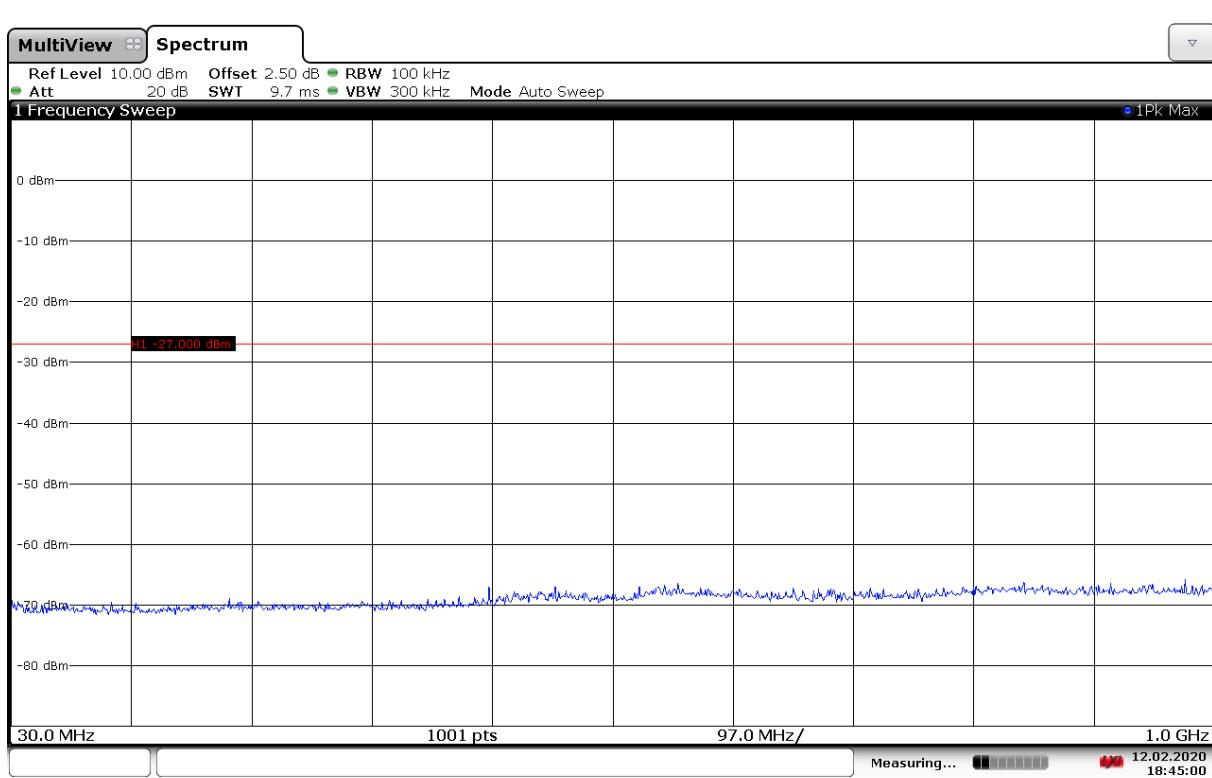


Fig. 135 Conducted Spurious Emission (802.11ax-HE40-RU242-right, Ch159, 30 MHz-1 GHz)

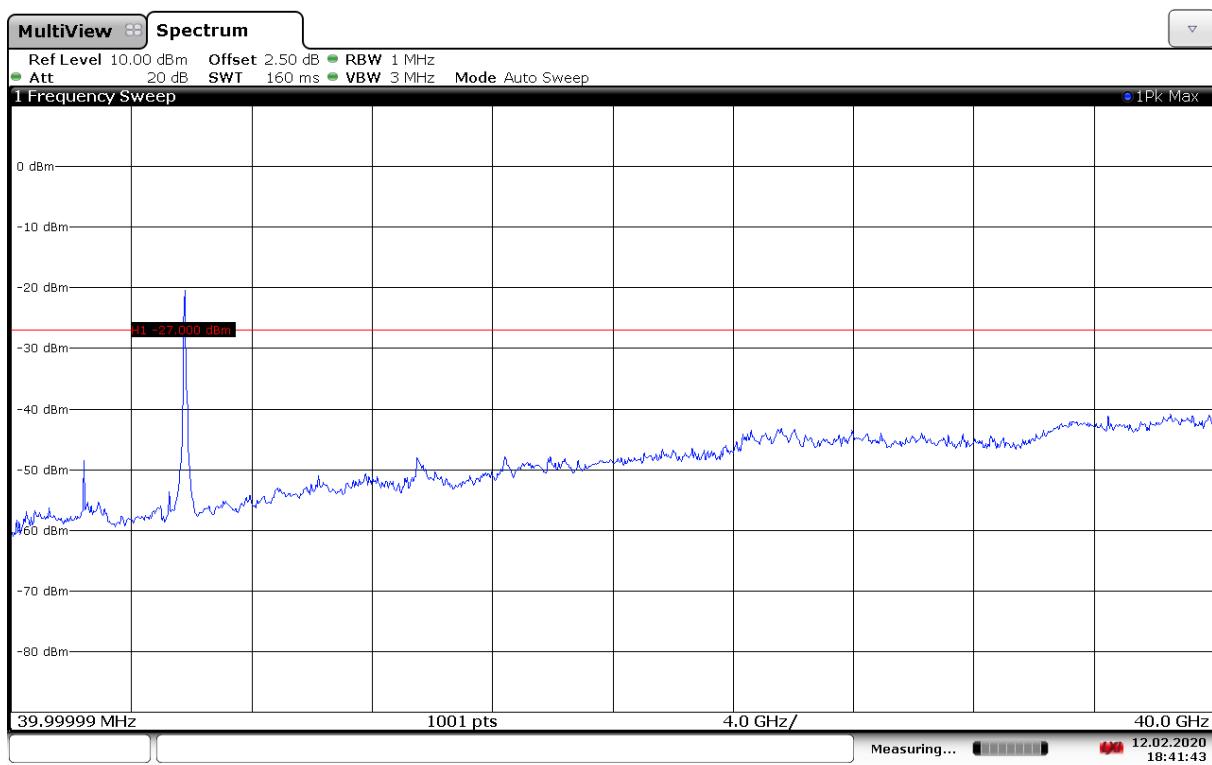


Fig. 136 Conducted Spurious Emission (802.11ax-HE40-RU242-right, Ch159, 1 GHz-40 GHz)

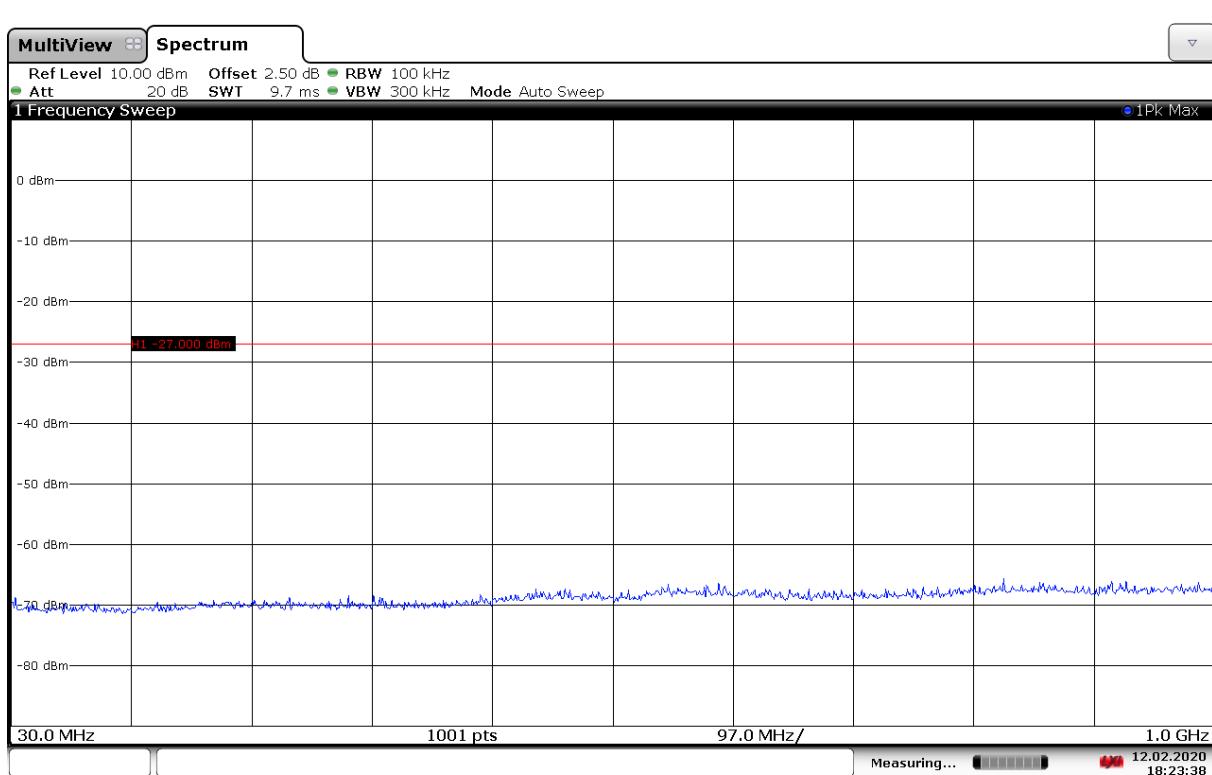
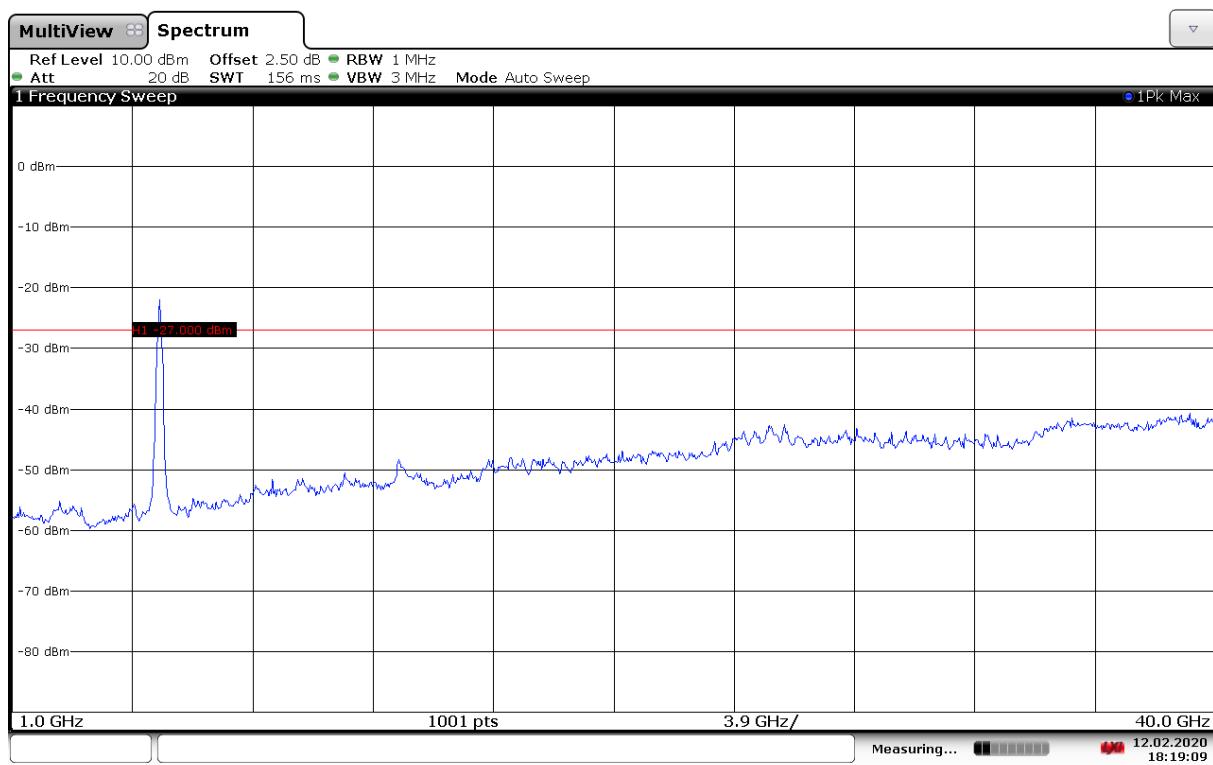


Fig. 137 Conducted Spurious Emission (802.11ax-HE80-RU484-right, Ch155, 30 MHz-1 GHz)



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Fig. 138 Conducted Spurious Emission (802.11ax-HE80-RU484-right, Ch155, 1 GHz-40 GHz)

A.5.2 Transmitter Spurious Emission - Radiated

Measurement Limit:

Standard	Frequency (MHz)	Limit (dBm/MHz)
FCC 47 CFR Part 15.407	5725MHz~5850MHz	< -27

The measurement is made according to ANSI C63.10 .

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)).

Limit in restricted band:

Frequency of emission (MHz)	Field strength (uV/m)	Field strength (dB μ V/m)	Measurement distance(m)
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

Measurement Results:

Note:

P_{Mea} is the field strength recorded from the instrument.

The measurement results are obtained as described below:

Result= P_{Mea} + Cable Loss + Antenna Factor

Where:

P_{Mea} field strength recorded from the instrument

Average Results:

802.11a EUT4

Ch149

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Antenna Pol. (H/V)	Limit (dB μ V/m)	Margin (dB)
17996.700	35.60	-25.50	43.40	17.70	H	48.30	12.70
17964.800	35.40	-25.50	43.40	17.50	V	48.30	12.90
17983.500	35.40	-25.50	43.40	17.50	H	48.30	12.90
17957.100	35.30	-25.50	43.40	17.40	H	48.30	13.00
17962.600	35.30	-25.50	43.40	17.40	V	48.30	13.00
5722.100	48.10	-16.30	34.20	30.20	H	111.00	62.90

Ch157

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Antenna Pol. (H/V)	Limit (dB μ V/m)	Margin (dB)
17954.900	35.40	-25.50	43.40	17.50	V	48.30	12.90
17967.000	35.40	-25.50	43.40	17.50	V	48.30	12.90
17973.600	35.40	-25.50	43.40	17.50	V	48.30	12.90
17997.800	35.40	-25.50	43.40	17.50	V	48.30	12.90
17959.300	35.30	-25.50	43.40	17.40	V	48.30	13.00
17978.000	35.30	-25.50	43.40	17.40	H	48.30	13.00

Ch161

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17995.600	34.00	-25.50	43.40	16.10	H	48.30	14.30
17994.500	33.90	-25.50	43.40	16.00	H	48.30	14.40
17992.300	33.80	-25.50	43.40	15.90	H	48.30	14.50
17970.300	33.70	-25.50	43.40	15.80	V	48.30	14.60
17947.200	33.60	-25.50	43.40	15.70	H	48.30	14.70
5924.100	37.60	-16.40	34.20	19.80	V	48.30	10.70

802.11n-HT20 EUT4

Ch149

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17958.200	35.50	-25.50	43.40	17.60	V	48.30	12.80
17974.700	35.50	-25.50	43.40	17.60	H	48.30	12.80
17981.300	35.50	-25.50	43.40	17.60	V	48.30	12.80
17986.800	35.50	-25.50	43.40	17.60	V	48.30	12.80
17991.200	35.50	-25.50	43.40	17.60	V	48.30	12.80
5725.000	40.10	-16.30	34.20	22.20	H	48.30	8.20

Ch157

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17967.000	35.30	-25.50	43.40	17.40	V	48.30	13.00
17975.800	35.30	-25.50	43.40	17.40	V	48.30	13.00
17978.000	35.30	-25.50	43.40	17.40	H	48.30	13.00
17993.400	35.30	-25.50	43.40	17.40	H	48.30	13.00
17996.700	35.30	-25.50	43.40	17.40	V	48.30	13.00
17962.600	35.20	-25.50	43.40	17.30	V	48.30	13.10

Ch161

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17989.000	33.90	-25.50	43.40	16.00	H	48.30	14.40
17992.300	33.90	-25.50	43.40	16.00	H	48.30	14.40
17963.700	33.70	-25.50	43.40	15.80	H	48.30	14.60
17967.000	33.70	-25.50	43.40	15.80	H	48.30	14.60
17969.200	33.70	-25.50	43.40	15.80	H	48.30	14.60
5914.000	37.60	-16.40	34.20	19.80	H	48.30	10.70

802.11n-HT40 EUT4

Ch151

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17972.500	35.50	-25.50	43.40	17.60	H	48.30	12.80
17997.800	35.50	-25.50	43.40	17.60	H	48.30	12.80
17958.200	35.40	-25.50	43.40	17.50	H	48.30	12.90
17963.700	35.30	-25.50	43.40	17.40	V	48.30	13.00
17965.900	35.30	-25.50	43.40	17.40	H	48.30	13.00
5724.900	41.50	-16.30	34.20	23.60	H	48.30	6.80

Ch159

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17968.100	35.50	-25.50	43.40	17.60	H	48.30	12.80
17979.100	35.50	-25.50	43.40	17.60	H	48.30	12.80
17970.300	35.40	-25.50	43.40	17.50	H	48.30	12.90
17972.500	35.40	-25.50	43.40	17.50	V	48.30	12.90
17981.300	35.40	-25.50	43.40	17.50	H	48.30	12.90
5855.300	38.60	-16.20	34.20	20.60	H	48.30	9.70

802.11ac-HT20 EUT4

Ch149

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17974.700	35.50	-25.50	43.40	17.60	V	48.30	12.80
17992.300	35.50	-25.50	43.40	17.60	H	48.30	12.80
17994.500	35.50	-25.50	43.40	17.60	V	48.30	12.80
17996.700	35.40	-25.50	43.40	17.50	H	48.30	12.90
17997.800	35.40	-25.50	43.40	17.50	H	48.30	12.90
5724.900	40.30	-16.30	34.20	22.40	H	48.30	8.00

Ch157

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17974.700	35.50	-25.50	43.40	17.60	H	48.30	12.80
17947.200	35.40	-25.50	43.40	17.50	H	48.30	12.90
17970.300	35.40	-25.50	43.40	17.50	H	48.30	12.90
17976.900	35.40	-25.50	43.40	17.50	V	48.30	12.90
17980.200	35.40	-25.50	43.40	17.50	V	48.30	12.90
17992.300	35.40	-25.50	43.40	17.50	H	48.30	12.90

Ch161

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17980.200	34.00	-25.50	43.40	16.10	H	48.30	14.30
17961.500	33.80	-25.50	43.40	15.90	H	48.30	14.50
17973.600	33.80	-25.50	43.40	15.90	V	48.30	14.50
17978.000	33.80	-25.50	43.40	15.90	H	48.30	14.50
17987.900	33.80	-25.50	43.40	15.90	V	48.30	14.50
5914.400	37.60	-16.40	34.20	19.80	H	48.30	10.70

802.11ac-HT40 EUT4

Ch151

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17979.100	35.50	-25.50	43.40	17.60	H	48.30	12.80
17960.400	35.40	-25.50	43.40	17.50	V	48.30	12.90
17975.800	35.40	-25.50	43.40	17.50	V	48.30	12.90
17991.200	35.40	-25.50	43.40	17.50	V	48.30	12.90
17961.500	35.30	-25.50	43.40	17.40	V	48.30	13.00
5724.300	42.90	-16.30	34.20	25.00	H	48.30	5.40

Ch159

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17997.800	35.50	-25.50	43.40	17.60	H	48.30	12.80
17987.900	35.40	-25.50	43.40	17.50	H	48.30	12.90
17961.500	35.30	-25.50	43.40	17.40	V	48.30	13.00
17962.600	35.30	-25.50	43.40	17.40	V	48.30	13.00
17973.600	35.30	-25.50	43.40	17.40	H	48.30	13.00
5850.300	39.30	-16.20	34.20	21.30	H	48.30	9.00

802.11ac-HT80 EUT4

Ch155-L

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
5719.823	39.30	-33.80	35.10	38.00	H	48.30	9.00
17997.800	35.60	-17.70	45.60	7.70	H	48.30	12.70
17975.800	35.60	-17.70	45.60	7.70	V	48.30	12.70
17968.100	35.50	-17.70	45.60	7.60	H	48.30	12.80
17979.100	35.40	-17.70	45.60	7.50	H	48.30	12.90
17978.000	35.40	-17.70	45.60	7.50	H	48.30	12.90

Ch155-R

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
5858.296	39.00	-33.80	35.10	37.70	H	48.30	9.30
17997.800	35.60	-17.70	45.60	7.70	H	48.30	12.70
17975.800	35.60	-17.70	45.60	7.70	V	48.30	12.70
17968.100	35.50	-17.70	45.60	7.60	H	48.30	12.80
17979.100	35.40	-17.70	45.60	7.50	H	48.30	12.90
17978.000	35.40	-17.70	45.60	7.50	H	48.30	12.90

802.11ax-HT20 EUT43

Ch149

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17971.400	34.50	-25.50	43.40	16.60	H	48.30	13.80
17994.500	34.50	-25.50	43.40	16.60	H	48.30	13.80
17989.000	34.40	-25.50	43.40	16.50	V	48.30	13.90
17975.800	34.30	-25.50	43.40	16.40	H	48.30	14.00
17976.900	34.30	-25.50	43.40	16.40	V	48.30	14.00
5720.700	45.00	-16.30	34.20	27.10	V	110.00	65.00

Ch157

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17997.800	34.60	-25.50	43.40	16.70	V	48.30	13.70
17981.300	34.40	-25.50	43.40	16.50	H	48.30	13.90
17960.400	34.30	-25.50	43.40	16.40	H	48.30	14.00
17975.800	34.30	-25.50	43.40	16.40	V	48.30	14.00
17996.700	34.30	-25.50	43.40	16.40	V	48.30	14.00
17953.800	34.20	-25.50	43.40	16.30	V	48.30	14.10

Ch161

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17982.400	34.10	-25.50	43.40	16.20	H	48.30	14.20
17974.700	34.00	-25.50	43.40	16.10	H	48.30	14.30
17979.100	34.00	-25.50	43.40	16.10	V	48.30	14.30
17970.300	33.90	-25.50	43.40	16.00	V	48.30	14.40
17983.500	33.90	-25.50	43.40	16.00	H	48.30	14.40
5884.900	37.30	-16.40	34.20	19.50	H	48.30	11.00

802.11ax-HT40 EUT43

Ch151

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17970.300	34.30	-25.50	43.40	16.40	V	48.30	14.00
17984.600	34.30	-25.50	43.40	16.40	V	48.30	14.00
17962.600	34.20	-25.50	43.40	16.30	H	48.30	14.10
17974.700	34.20	-25.50	43.40	16.30	H	48.30	14.10
17978.000	34.20	-25.50	43.40	16.30	V	48.30	14.10
5721.300	39.70	-16.30	34.20	21.80	H	48.30	8.60

Ch159

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17987.900	34.40	-25.50	43.40	16.50	V	48.30	13.90
17950.500	34.30	-25.50	43.40	16.40	V	48.30	14.00
17964.800	34.30	-25.50	43.40	16.40	H	48.30	14.00
17943.900	34.20	-25.50	43.40	16.30	H	48.30	14.10
17980.200	34.20	-25.50	43.40	16.30	V	48.30	14.10
5850.600	38.40	-16.20	34.20	20.40	H	48.30	9.90

802.11ax-HT80 EUT43

Ch155-L

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
5721.513	36.40	-33.80	35.10	35.10	H	48.30	11.90
17971.400	34.50	-17.70	45.60	6.60	H	48.30	13.80
17993.400	34.40	-17.70	45.60	6.50	V	48.30	13.90
17973.600	34.40	-17.70	45.60	6.50	H	48.30	13.90
17981.300	34.40	-17.70	45.60	6.50	H	48.30	13.90
17998.900	34.40	-17.70	45.60	6.50	H	48.30	13.90

Ch155-R

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
5852.184	36.80	-33.80	35.10	35.50	H	48.30	11.50
17971.400	34.50	-17.70	45.60	6.60	H	48.30	13.80
17993.400	34.40	-17.70	45.60	6.50	V	48.30	13.90
17973.600	34.40	-17.70	45.60	6.50	H	48.30	13.90
17981.300	34.40	-17.70	45.60	6.50	H	48.30	13.90
17998.900	34.40	-17.70	45.60	6.50	H	48.30	13.90

Peak Results:**802.11a EUT4**

Ch149

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17930.700	47.20	-25.50	43.40	29.30	H	68.30	21.10
17967.000	47.10	-25.50	43.40	29.20	H	68.30	21.20
17830.600	46.90	-25.50	43.40	29.00	V	68.30	21.40
17854.800	46.90	-25.50	43.40	29.00	V	68.30	21.40
17961.500	46.80	-25.50	43.40	28.90	V	68.30	21.50
5721.500	61.30	-16.30	34.20	43.40	H	91.00	29.70

Ch157

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17942.800	47.50	-25.50	43.40	29.60	V	68.30	20.80
17815.200	47.40	-25.50	43.40	29.50	V	68.30	20.90
17791.000	47.20	-25.50	43.40	29.30	H	68.30	21.10
17975.800	47.10	-25.50	43.40	29.20	V	68.30	21.20
17982.400	47.10	-25.50	43.40	29.20	H	68.30	21.20
17929.600	46.90	-25.50	43.40	29.00	V	68.30	21.40

Ch161

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17937.300	46.50	-25.50	43.40	28.60	H	68.30	21.80
17905.400	45.80	-25.50	43.40	27.90	V	68.30	22.50
17980.200	45.50	-25.50	43.40	27.60	H	68.30	22.80
17967.000	45.40	-25.50	43.40	27.50	H	68.30	22.90
17984.600	45.40	-25.50	43.40	27.50	V	68.30	22.90
5869.100	50.50	-16.20	34.20	32.50	H	68.30	17.80

802.11n-HT20 EUT4

Ch149

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17953.800	47.80	-25.50	43.40	29.90	H	68.30	20.50
17963.700	47.40	-25.50	43.40	29.50	V	68.30	20.90
17884.500	47.20	-25.50	43.40	29.30	V	68.30	21.10
17964.800	46.90	-25.50	43.40	29.00	V	68.30	21.40
17871.300	46.80	-25.50	43.40	28.90	H	68.30	21.50
5724.800	52.20	-16.30	34.20	34.30	H	68.30	16.10

Ch157

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17876.800	47.40	-25.50	43.40	29.50	V	68.30	20.90
17910.900	47.20	-25.50	43.40	29.30	V	68.30	21.10
17953.800	47.10	-25.50	43.40	29.20	H	68.30	21.20
17982.400	46.70	-25.50	43.40	28.80	H	68.30	21.60
17965.900	46.60	-25.50	43.40	28.70	V	68.30	21.70
17959.300	46.50	-25.50	43.40	28.60	H	68.30	21.80

Ch161

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17971.400	46.00	-25.50	43.40	28.10	H	68.30	22.30
17894.400	45.90	-25.50	43.40	28.00	V	68.30	22.40
17909.800	45.90	-25.50	43.40	28.00	H	68.30	22.40
17994.500	45.80	-25.50	43.40	27.90	H	68.30	22.50
17951.600	45.70	-25.50	43.40	27.80	H	68.30	22.60
5856.500	50.40	-16.20	34.20	32.40	V	68.30	17.90

802.11n-HT40 EUT4

Ch151

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17961.500	47.50	-25.50	43.40	29.60	V	68.30	20.80
17948.300	47.20	-25.50	43.40	29.30	H	68.30	21.10
17976.900	47.20	-25.50	43.40	29.30	V	68.30	21.10
17853.700	46.90	-25.50	43.40	29.00	V	68.30	21.40
17935.100	46.90	-25.50	43.40	29.00	V	68.30	21.40
5721.500	60.10	-16.30	34.20	42.20	H	68.30	8.20

Ch159

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17949.400	47.10	-25.50	43.40	29.20	H	68.30	21.20
17965.900	47.10	-25.50	43.40	29.20	H	68.30	21.20
17992.300	46.90	-25.50	43.40	29.00	V	68.30	21.40
17783.300	46.70	-25.50	43.40	28.80	H	68.30	21.60
17974.700	46.70	-25.50	43.40	28.80	H	68.30	21.60
5850.500	51.10	-16.20	34.20	33.10	H	68.30	17.20

802.11ac-HT20 EUT4

Ch149

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17991.200	47.60	-25.50	43.40	29.70	H	68.30	20.70
17958.200	47.30	-25.50	43.40	29.40	H	68.30	21.00
17965.900	47.20	-25.50	43.40	29.30	H	68.30	21.10
17978.000	47.20	-25.50	43.40	29.30	V	68.30	21.10
17971.400	47.10	-25.50	43.40	29.20	V	68.30	21.20
5722.100	55.60	-16.30	34.20	37.70	H	68.30	12.70

Ch157

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17869.100	48.30	-25.50	43.40	30.40	H	68.30	20.00
17987.900	47.50	-25.50	43.40	29.60	H	68.30	20.80
17965.900	47.40	-25.50	43.40	29.50	V	68.30	20.90
17992.300	47.40	-25.50	43.40	29.50	H	68.30	20.90
17932.900	47.20	-25.50	43.40	29.30	V	68.30	21.10
17976.900	46.90	-25.50	43.40	29.00	V	68.30	21.40

Ch161

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17989.000	45.80	-25.50	43.40	27.90	H	68.30	22.50
17967.000	45.70	-25.50	43.40	27.80	H	68.30	22.60
17994.500	45.60	-25.50	43.40	27.70	V	68.30	22.70
17787.700	45.40	-25.50	43.40	27.50	H	68.30	22.90
17981.300	45.40	-25.50	43.40	27.50	V	68.30	22.90
5885.100	50.10	-16.40	34.20	32.30	V	68.30	18.20

802.11ac-HT40 EUT4

Ch151

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17975.800	47.10	-25.50	43.40	29.20	V	68.30	21.20
17982.400	46.90	-25.50	43.40	29.00	H	68.30	21.40
17916.400	46.70	-25.50	43.40	28.80	H	68.30	21.60
17984.600	46.70	-25.50	43.40	28.80	V	68.30	21.60
17957.100	46.60	-25.50	43.40	28.70	H	68.30	21.70
5721.800	58.60	-16.30	34.20	40.70	H	68.30	9.70

Ch159

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17962.600	47.60	-25.50	43.40	29.70	V	68.30	20.70
17913.100	46.90	-25.50	43.40	29.00	V	68.30	21.40
17939.500	46.80	-25.50	43.40	28.90	H	68.30	21.50
17975.800	46.60	-25.50	43.40	28.70	H	68.30	21.70
17976.900	46.50	-25.50	43.40	28.60	V	68.30	21.80
5850.300	52.00	-16.20	34.20	34.00	H	68.30	16.30

802.11ac-HT80 EUT4

Ch155-L

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
5723.294	54.40	-33.80	35.10	53.10	H	68.30	13.90
17947.200	47.80	-17.70	45.60	19.90	H	68.30	20.50
17998.900	47.60	-17.70	45.60	19.70	V	68.30	20.70
17950.500	47.40	-17.70	45.60	19.50	H	68.30	20.90
17910.900	47.30	-18.50	45.60	20.20	H	68.30	21.00
17907.600	46.90	-18.50	45.60	19.80	H	68.30	21.40

Ch155-R

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
5852.936	51.20	-33.80	35.10	49.90	H	68.30	17.10
17947.200	47.80	-17.70	45.60	19.90	H	68.30	20.50
17998.900	47.60	-17.70	45.60	19.70	V	68.30	20.70
17950.500	47.40	-17.70	45.60	19.50	H	68.30	20.90
17910.900	47.30	-18.50	45.60	20.20	H	68.30	21.00
17907.600	46.90	-18.50	45.60	19.80	H	68.30	21.40

802.11ax-HT20 EUT43

Ch149

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17873.500	46.70	-25.50	43.40	28.80	H	68.30	21.60
17925.200	46.30	-25.50	43.40	28.40	V	68.30	22.00
17989.000	46.10	-25.50	43.40	28.20	V	68.30	22.20
17994.500	46.00	-25.50	43.40	28.10	H	68.30	22.30
17993.400	45.90	-25.50	43.40	28.00	V	68.30	22.40
5723.300	61.70	-16.30	34.20	43.80	V	68.30	6.60

Ch157

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17982.400	46.30	-25.50	43.40	28.40	H	68.30	22.00
17981.300	46.00	-25.50	43.40	28.10	H	68.30	22.30
17995.600	46.00	-25.50	43.40	28.10	H	68.30	22.30
17986.800	45.90	-25.50	43.40	28.00	H	68.30	22.40
17936.200	45.80	-25.50	43.40	27.90	H	68.30	22.50
17963.700	45.80	-25.50	43.40	27.90	H	68.30	22.50

Ch161

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17994.500	45.60	-25.50	43.40	27.70	H	68.30	22.70
17961.500	45.50	-25.50	43.40	27.60	V	68.30	22.80
17980.200	45.50	-25.50	43.40	27.60	H	68.30	22.80
17941.700	45.40	-25.50	43.40	27.50	H	68.30	22.90
17984.600	45.40	-25.50	43.40	27.50	V	68.30	22.90
5922.500	50.10	-16.40	34.20	32.30	V	68.30	18.20

802.11ax-HT40 EUT43

Ch151

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17973.600	46.70	-25.50	43.40	28.80	H	68.30	21.60
17995.600	46.20	-25.50	43.40	28.30	H	68.30	22.10
17948.300	46.00	-25.50	43.40	28.10	V	68.30	22.30
17959.300	45.80	-25.50	43.40	27.90	V	68.30	22.50
17873.500	45.60	-25.50	43.40	27.70	V	68.30	22.70
5723.700	63.90	-16.30	34.20	46.00	H	68.30	4.40

Ch159

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17890.000	46.50	-25.50	43.40	28.60	V	68.30	21.80
17934.000	46.30	-25.50	43.40	28.40	H	68.30	22.00
17959.300	46.20	-25.50	43.40	28.30	H	68.30	22.10
17994.500	46.20	-25.50	43.40	28.30	H	68.30	22.10
17803.100	45.80	-25.50	43.40	27.90	H	68.30	22.50
5851.700	52.50	-16.20	34.20	34.50	H	68.30	15.80

802.11ax-HT80 EUT43

Ch155-L

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
5724.472	56.10	-33.80	35.10	54.80	H	68.30	12.20
17905.400	47.30	-18.50	45.60	20.20	H	68.30	21.00
17992.300	46.50	-17.70	45.60	18.60	V	68.30	21.80
17972.500	46.40	-17.70	45.60	18.50	H	68.30	21.90
17980.200	46.30	-17.70	45.60	18.40	H	68.30	22.00
17997.800	46.10	-17.70	45.60	18.20	H	68.30	22.20

Ch155-R

Frequency (MHz)	Meas. Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
5850.920	53.70	-33.80	35.10	52.40	H	68.30	14.60
17905.400	47.30	-18.50	45.60	20.20	H	68.30	21.00
17992.300	46.50	-17.70	45.60	18.60	V	68.30	21.80
17972.500	46.40	-17.70	45.60	18.50	H	68.30	21.90
17980.200	46.30	-17.70	45.60	18.40	H	68.30	22.00
17997.800	46.10	-17.70	45.60	18.20	H	68.30	22.20

Sample

 Result= P_{Mea} + Cable Loss + Antenna Factor

 Result(53.70dB μ V/m) = $P_{Mea}(52.40\text{dB}\mu\text{V}/\text{m}) + \text{Cable Loss}(-33.80\text{dB}) + \text{Antenna Factor}(35.10\text{dB}/\text{m})$
Conclusion: PASS

A.6. Band Edges Compliance

A6.1 Band Edges - conducted

Measurement Limit:

Standard	Limit (dBm/MHz)
FCC 47 CFR Part 15.407(b)(4)	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

The measurement is made according to KDB 789033 D02

Measurement Uncertainty:

Measurement Uncertainty	0.75dB
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Measurement Result:

MIMO&CDD

ANT3

Mode	Channel	Test Results	Conclusion
802.11a	5745 MHz	Fig.139	P
	5805 MHz	Fig.140	P
802.11n HT20	5745 MHz	Fig.141	P
	5805 MHz	Fig.142	P
802.11ac HT20	5745 MHz	Fig.143	P
	5805 MHz	Fig.144	P
802.11n HT40	5755 MHz	Fig.145	P
	5795 MHz	Fig.146	P
802.11ac HT40	5755 MHz	Fig.147	P
	5795 MHz	Fig.148	P
802.11ac HT80	5775 MHz	Fig.149	P
	5775 MHz	Fig.150	P
802.11ax-HE20 (RU26-left)	5745 MHz	Fig.151	P
802.11ax-HE20 (RU26-right)	5805 MHz	Fig.152	P
802.11ax-HE20 (RU52-left)	5745 MHz	Fig.153	P
802.11ax-HE20 (RU52-right)	5805 MHz	Fig.154	P

802.11ax-HE20 (RU106-left)	5745 MHz	Fig.155	P
802.11ax-HE20 (RU106-right)	5805 MHz	Fig.156	P
802.11ax-HE40 (RU242-left)	5755 MHz	Fig.157	P
802.11ax-HE40 (RU242-right)	5795 MHz	Fig.158	P
802.11ax-HE80 (RU484-left)	5775 MHz	Fig.159	P
802.11ax-HE80 (RU484-right)	5775 MHz	Fig.160	P

Conclusion: PASS

ANT4

Mode	Channel	Test Results	Conclusion
802.11a	5745 MHz	Fig.161	P
	5805 MHz	Fig.162	P
802.11n HT20	5745 MHz	Fig.163	P
	5805 MHz	Fig.164	P
802.11ac HT20	5745 MHz	Fig.165	P
	5805 MHz	Fig.166	P
802.11n HT40	5755 MHz	Fig.167	P
	5795 MHz	Fig.168	P
802.11ac HT40	5755 MHz	Fig.169	P
	5795 MHz	Fig.170	P
802.11ac HT80	5775 MHz	Fig.171	P
	5775 MHz	Fig.172	P
802.11ax-HE20 (RU26-left)	5745 MHz	Fig.173	P
802.11ax-HE20 (RU26-right)	5805 MHz	Fig.174	P
802.11ax-HE20 (RU52-left)	5745 MHz	Fig.175	P
802.11ax-HE20 (RU52-right)	5805 MHz	Fig.176	P
802.11ax-HE20 (RU106-left)	5745 MHz	Fig.177	P
802.11ax-HE20 (RU106-right)	5805 MHz	Fig.178	P
802.11ax-HE40 (RU242-left)	5755 MHz	Fig.179	P

802.11ax-HE40 (RU242-right)	5795 MHz	Fig.180	P
802.11ax-HE80 (RU484-left)	5775 MHz	Fig.181	P
802.11ax-HE80 (RU484-right)	5775 MHz	Fig.182	P

Conclusion: PASS

Test graphs as below:



Fig. 139 Band Edges (802.11a, 5745MHz)

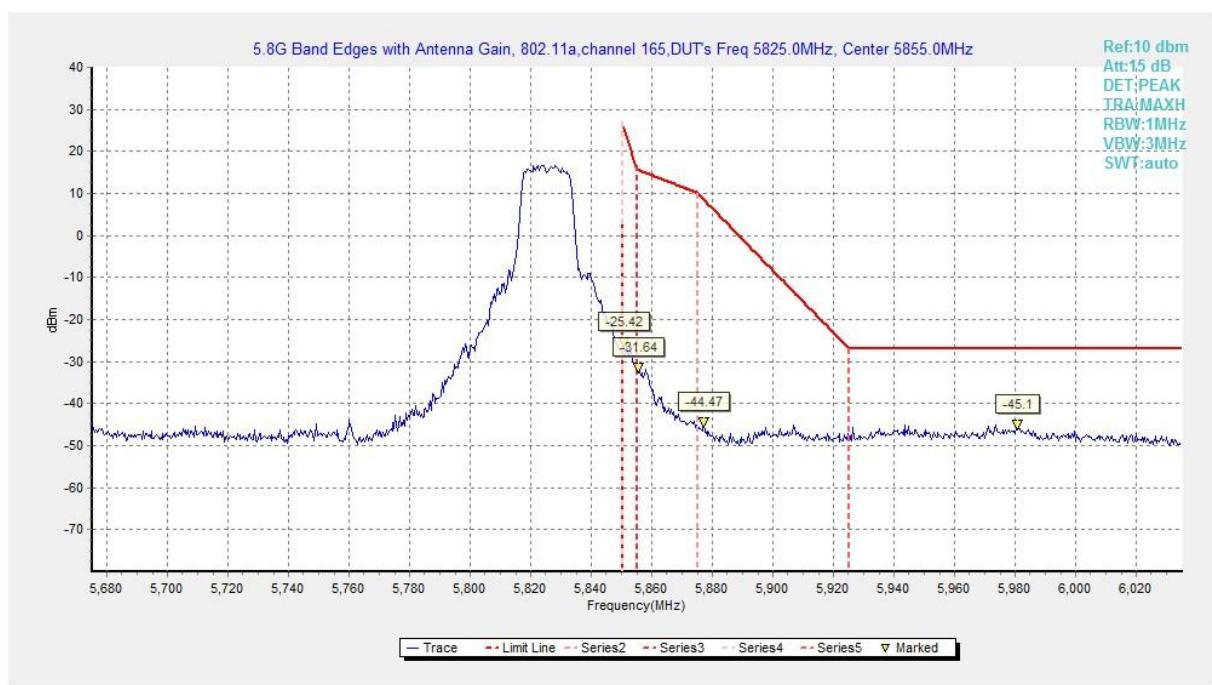
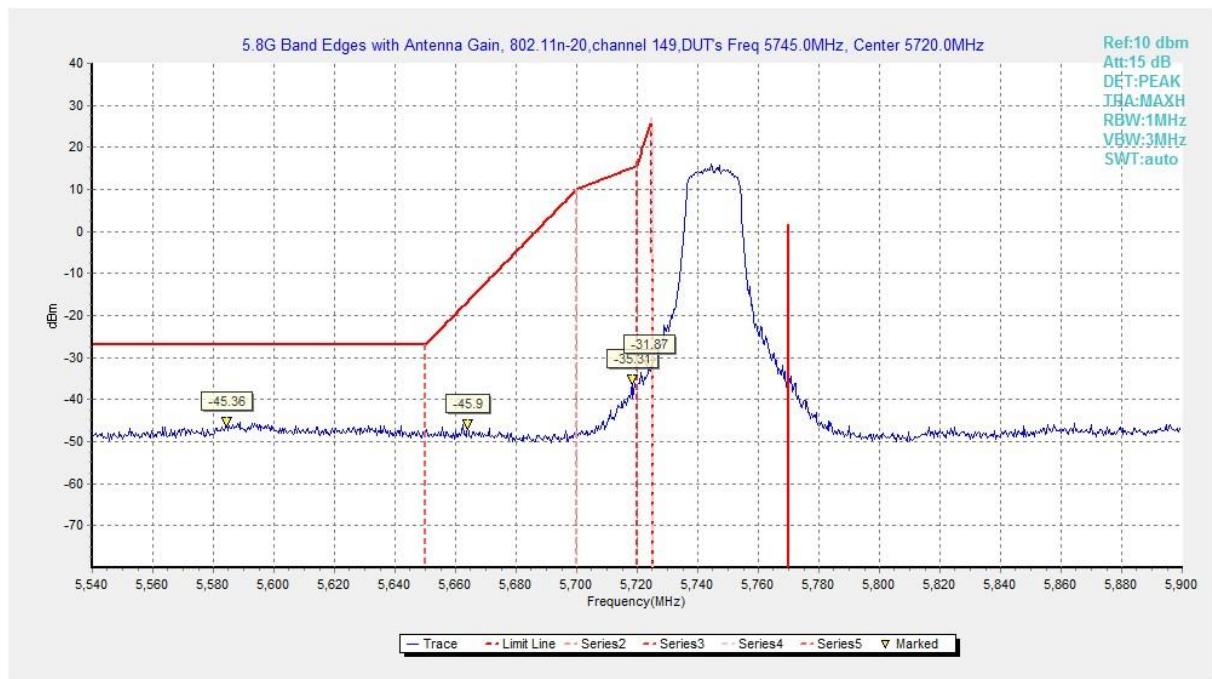

Fig. 140 Band Edges (802.11a, 5805MHz)

Fig. 141 Band Edges (802.11n-HT20, 5745MHz)

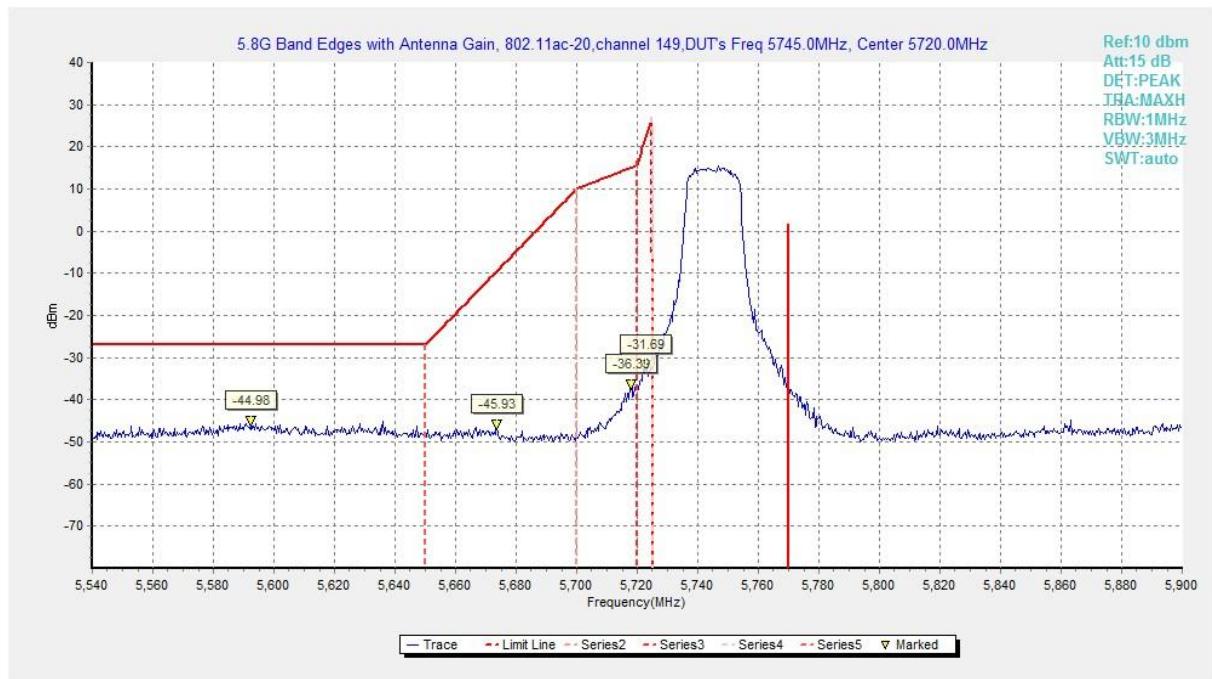

Fig. 142 Band Edges (802.11n-HT20, 5805MHz)

Fig. 143 Band Edges (802.11ac-HT20, 5745MHz)



Fig. 144 Band Edges (802.11ac-HT20, 5805MHz)

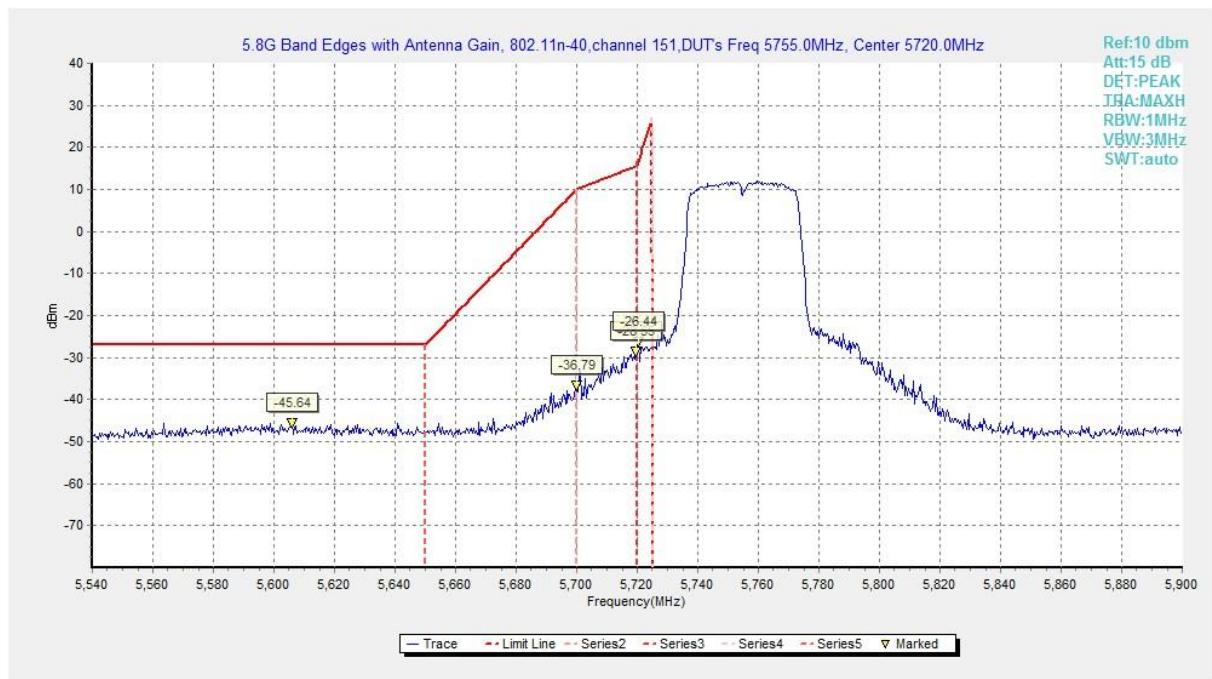


Fig. 145 Band Edges (802.11n-HT40, 5755MHz)

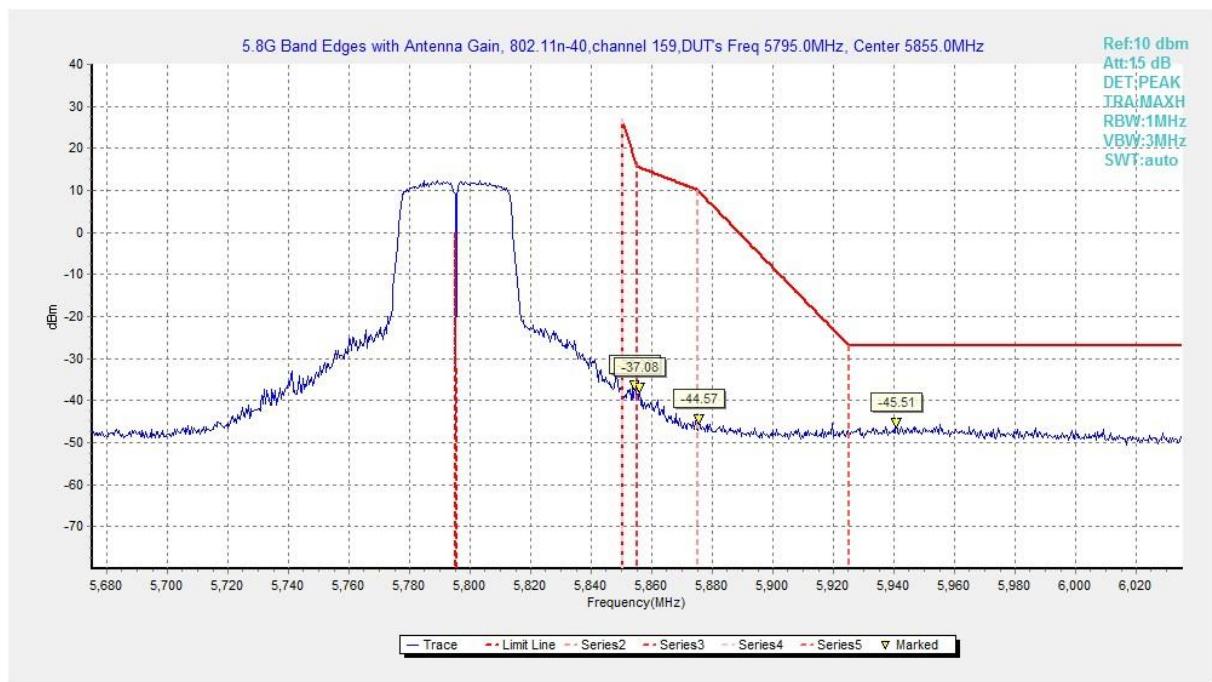
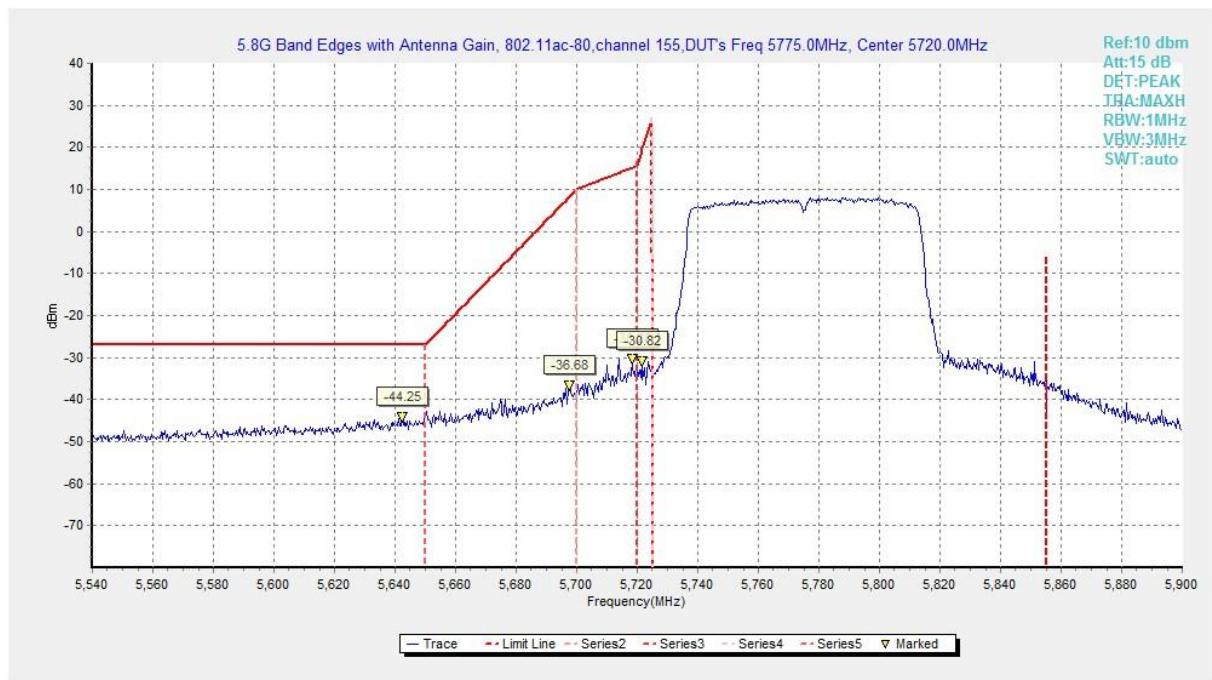
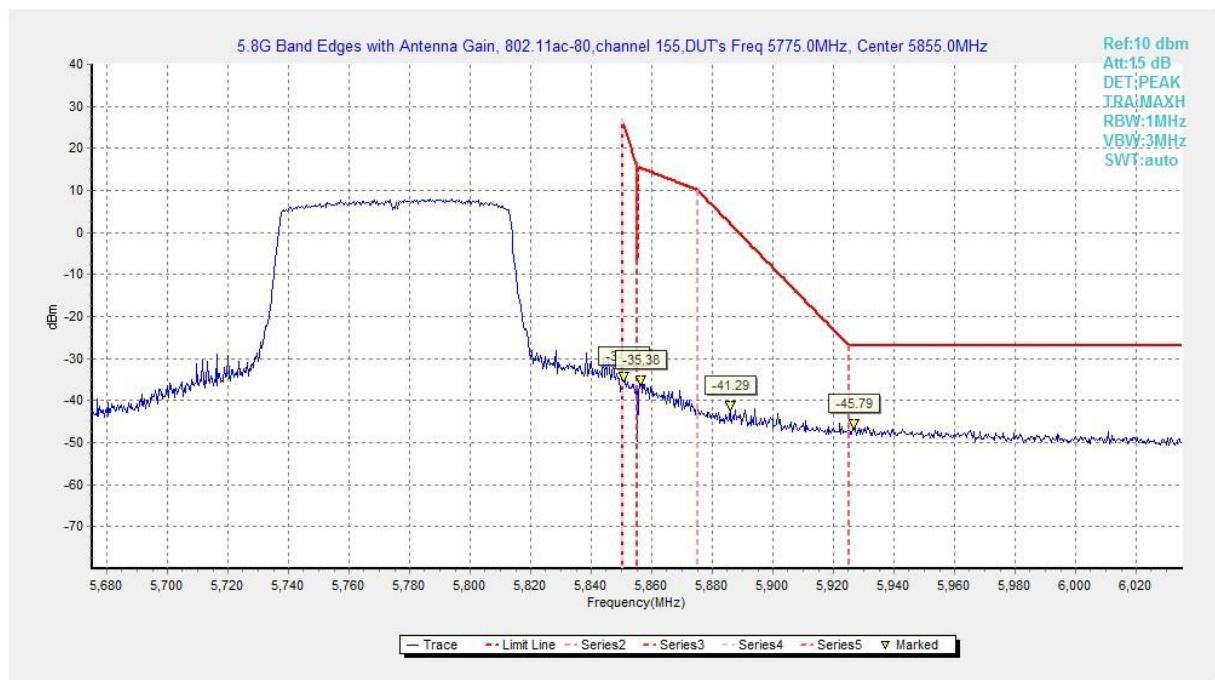
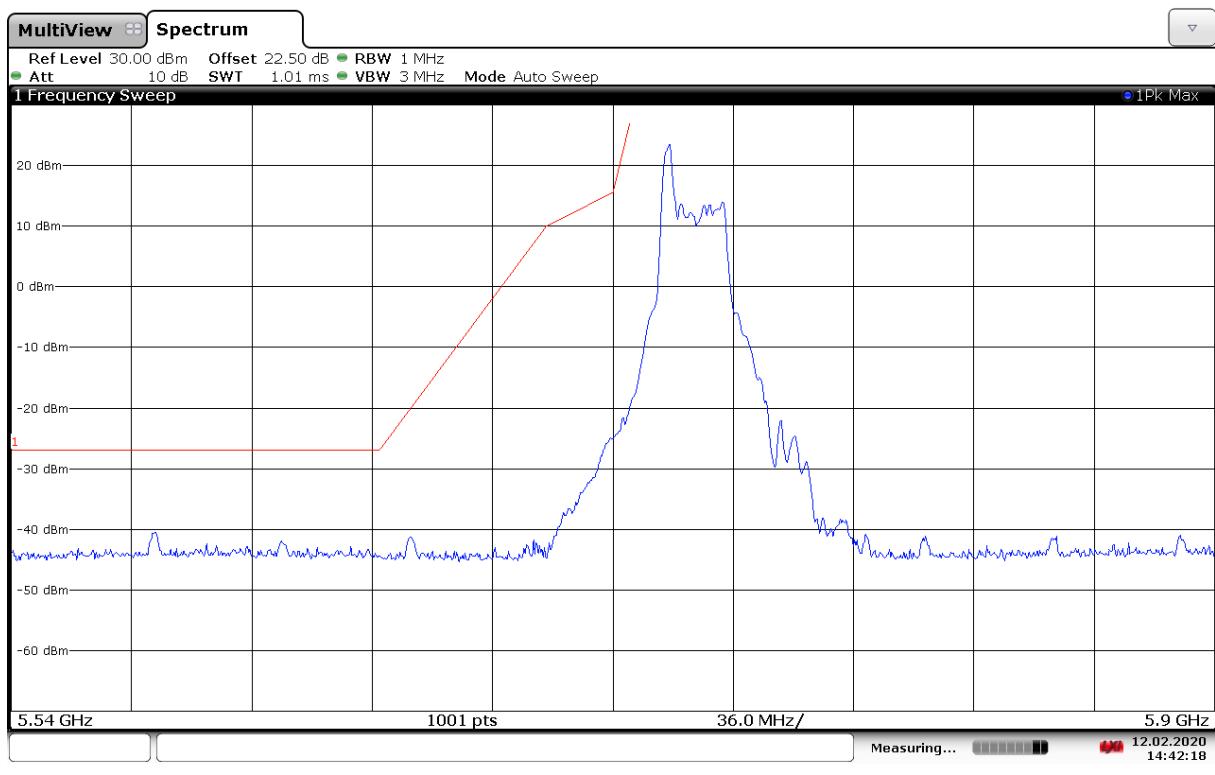


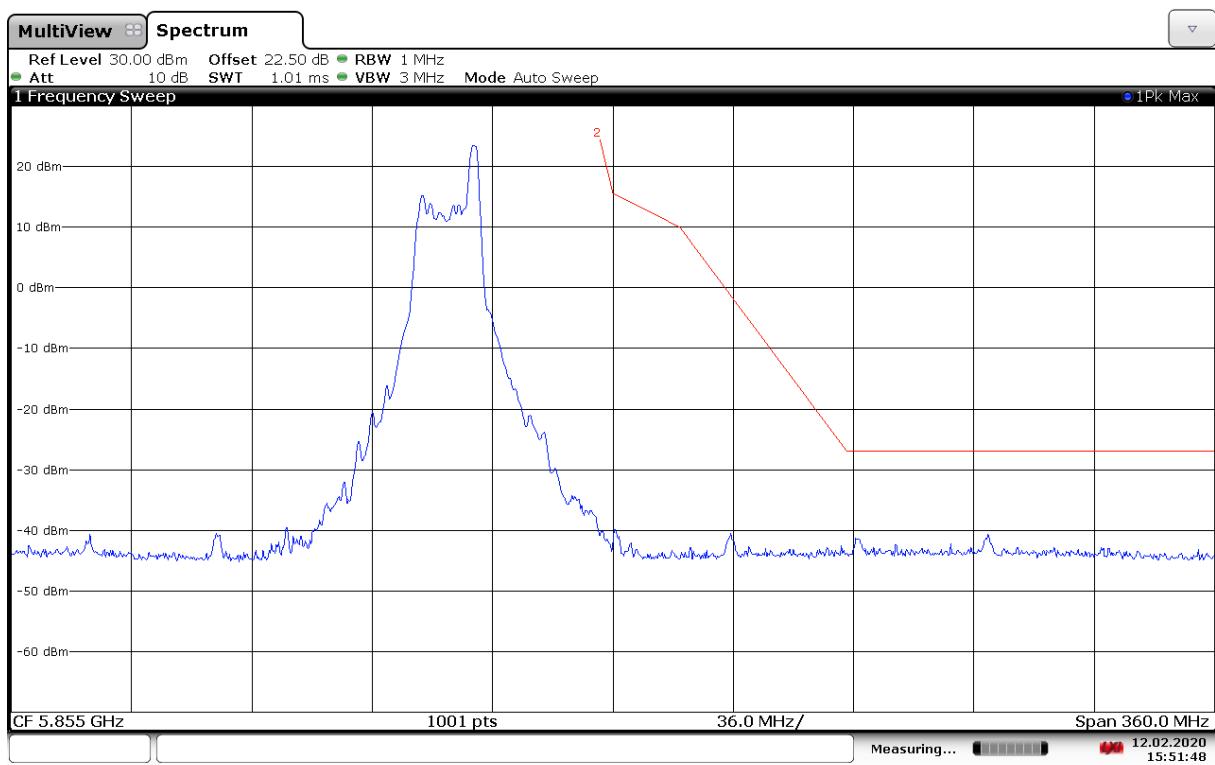
Fig. 146 Band Edges (802.11n-HT40, 5795MHz)



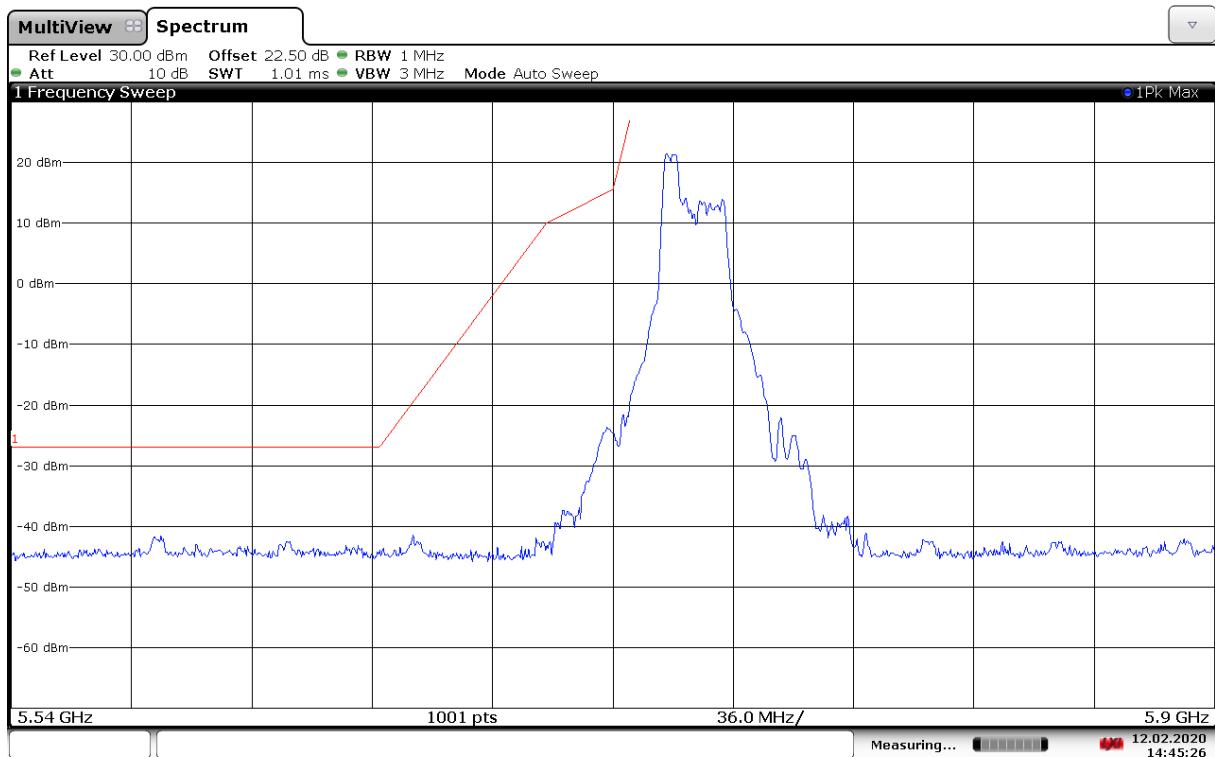
Fig. 147 Band Edges (802.11ac-HT40, 5755MHz)


Fig. 148 Band Edges (802.11ac-HT40, 5795MHz)

Fig. 149 Band Edges (802.11ac-HT80, 5775MHz)


Fig. 150 Band Edges (802.11ac-HT80, 5775MHz)

Fig. 151 Band Edges (802.11ax-HE20-RU26-left, 5745MHz)



15:51:48 12.02.2020

Fig. 152 Band Edges (802.11ax-HE20-RU26-right, 5805MHz)


14:45:27 12.02.2020

Fig. 153 Band Edges (802.11ax-HE20-RU52-left, 5745MHz)

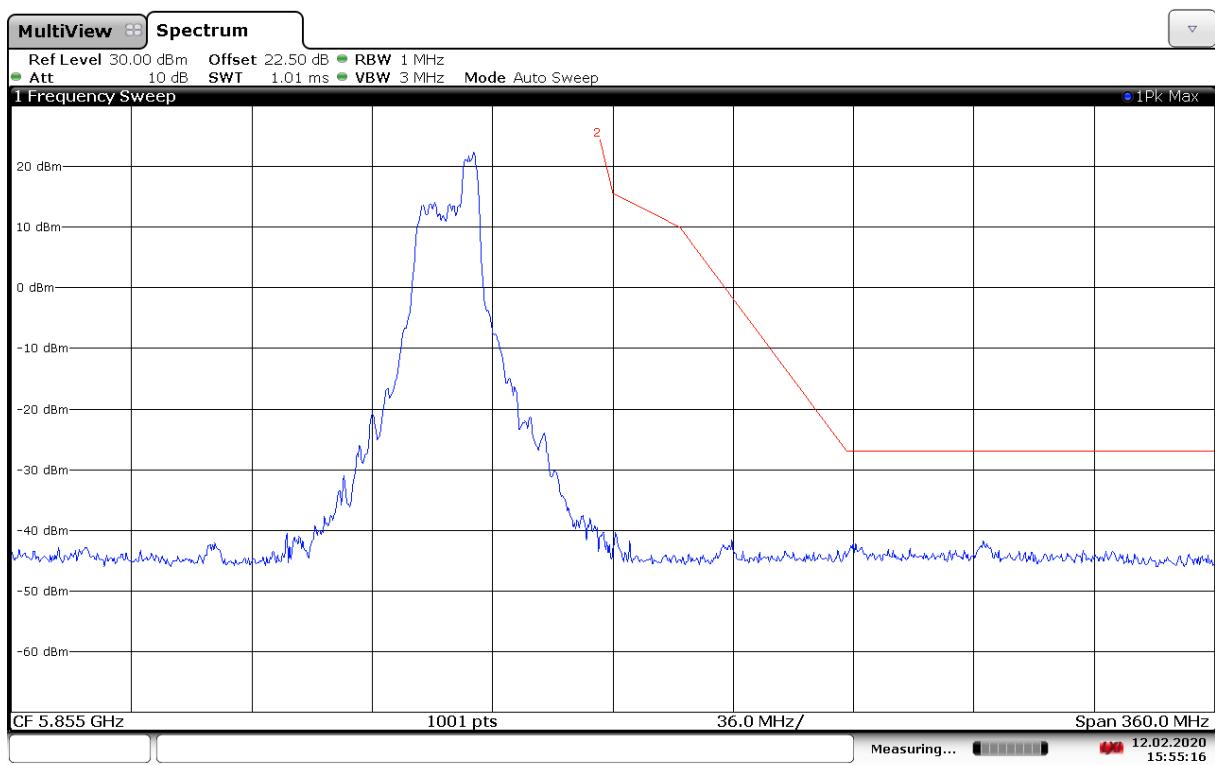


Fig. 154 Band Edges (802.11ax-HE20-RU52-right, 5805MHz)

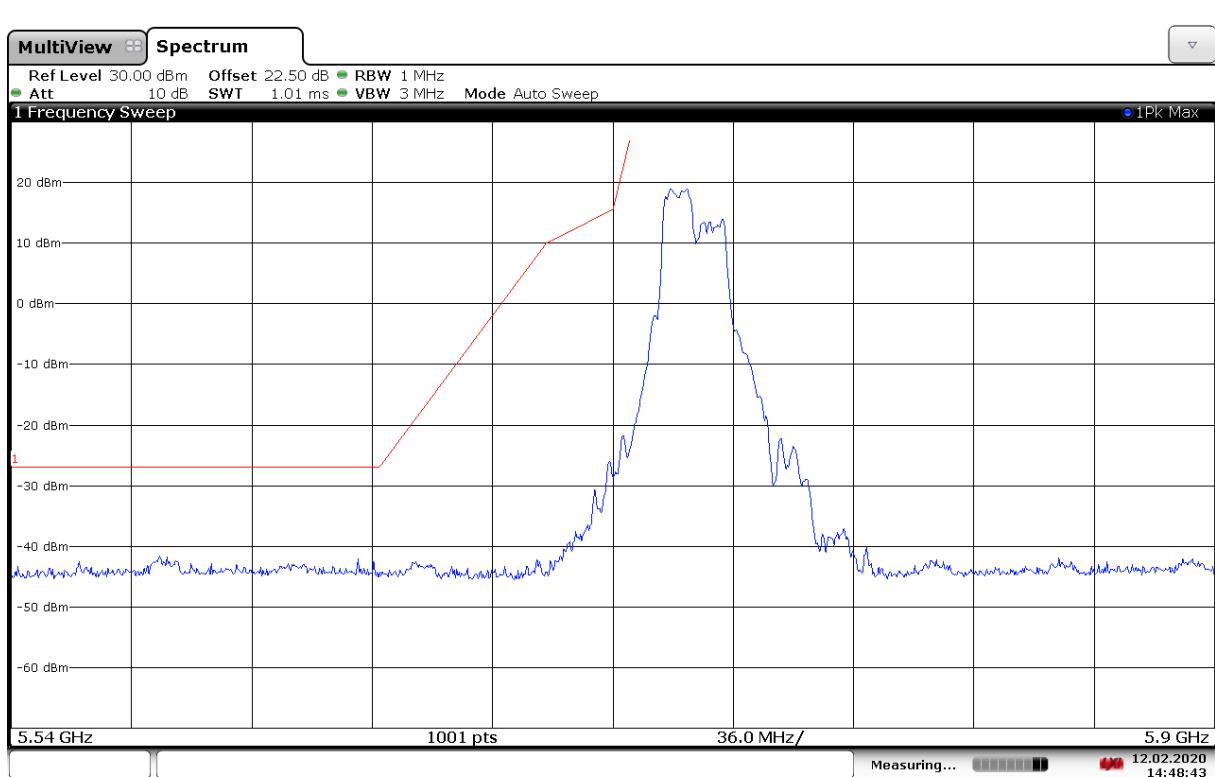


Fig. 155 Band Edges (802.11ax-HE20-RU106-left, 5745MHz)

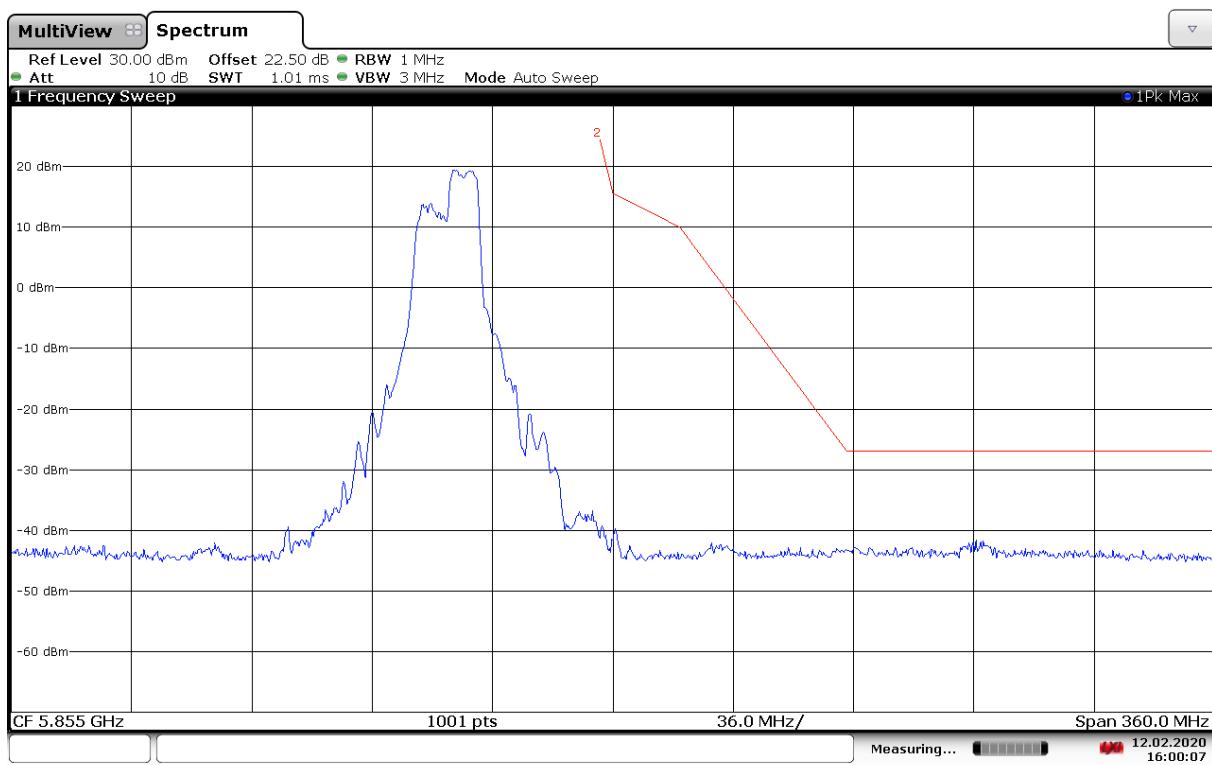


Fig. 156 Band Edges (802.11ax-HE20-RU106-right, 5805MHz)

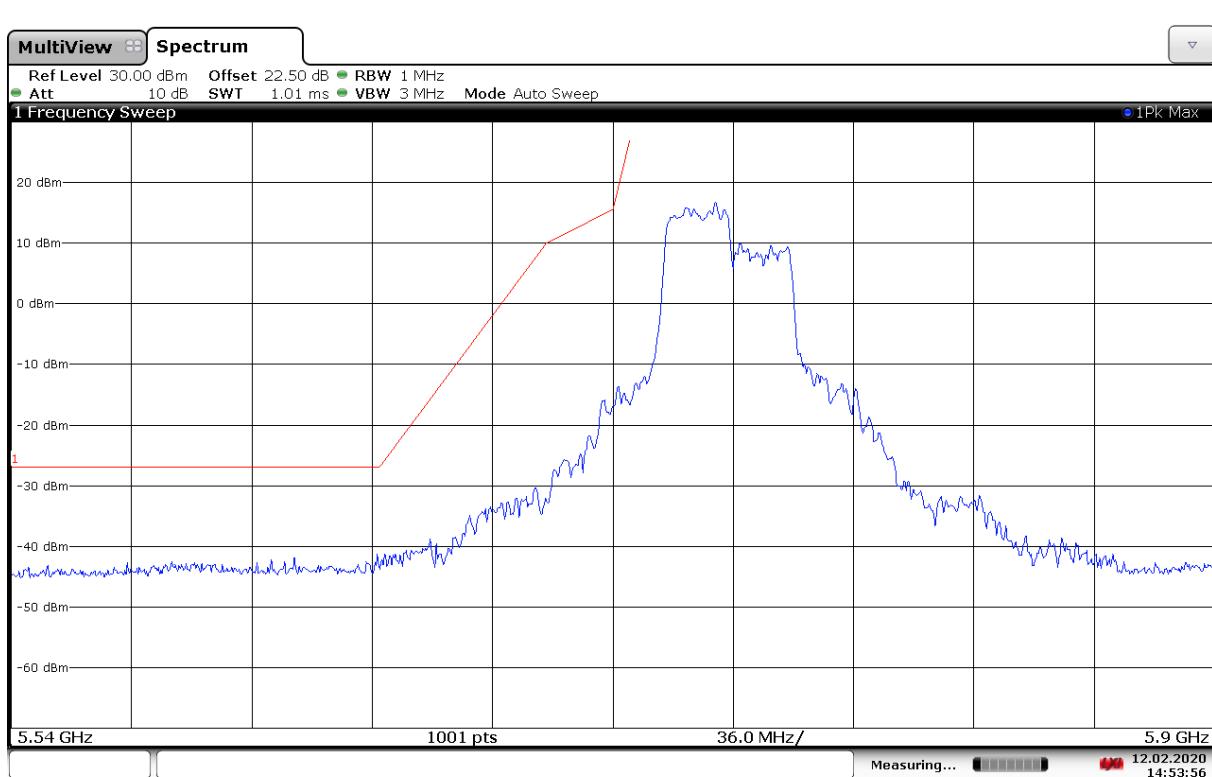


Fig. 157 Band Edges (802.11ax-HE40-RU242-left, 5755MHz)

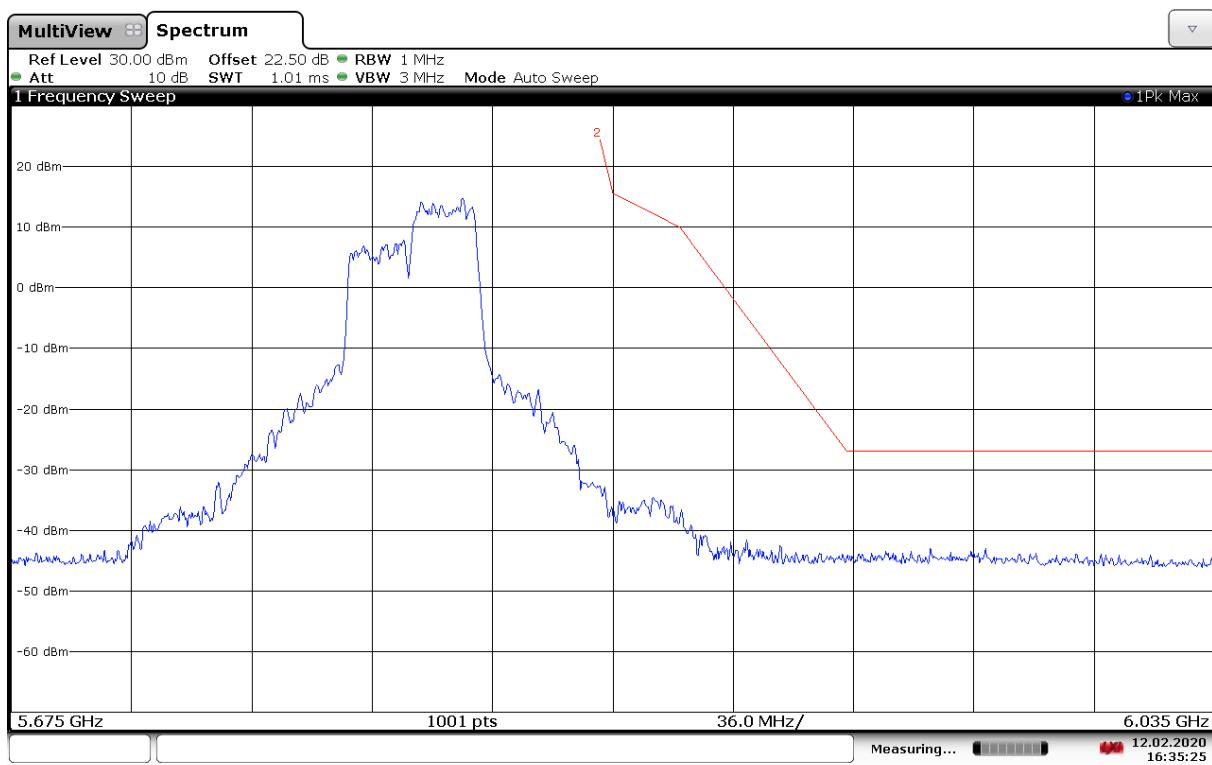


Fig. 158 Band Edges (802.11ax-HE40-RU242-right, 5795MHz)

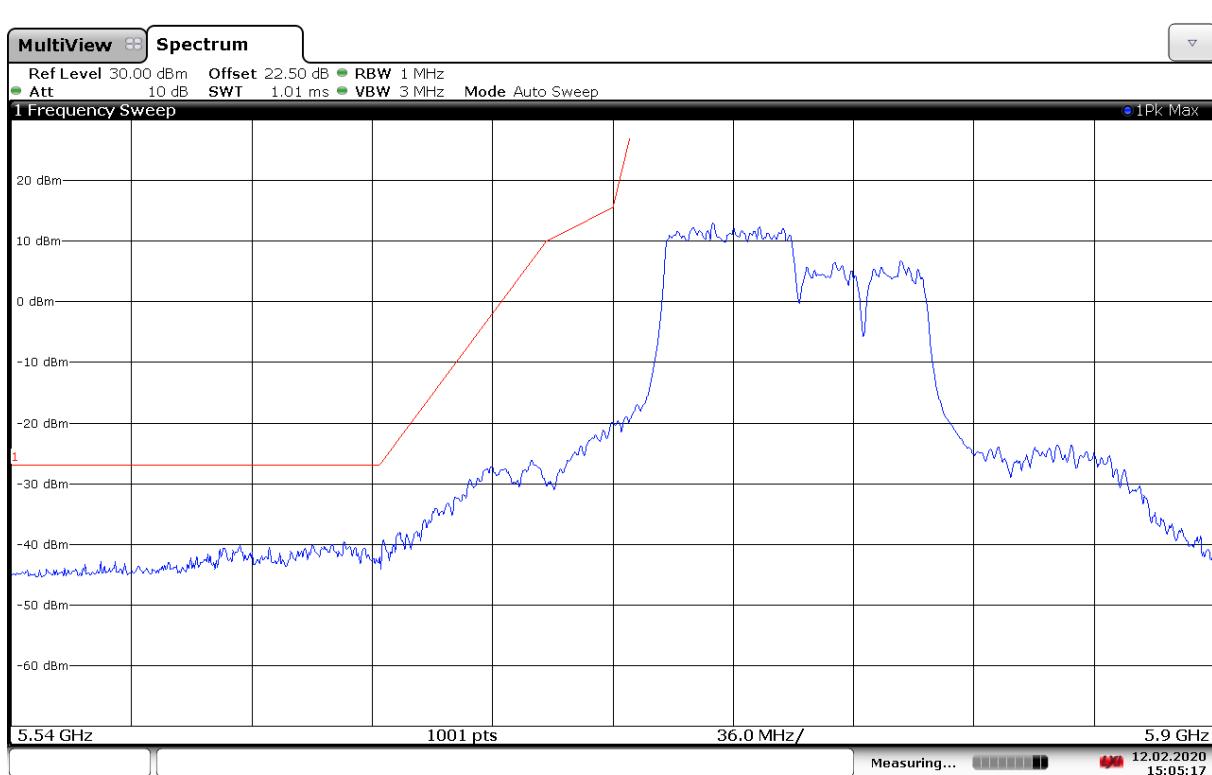


Fig. 159 Band Edges (802.11ax-HE80-RU484-left, 5775MHz)

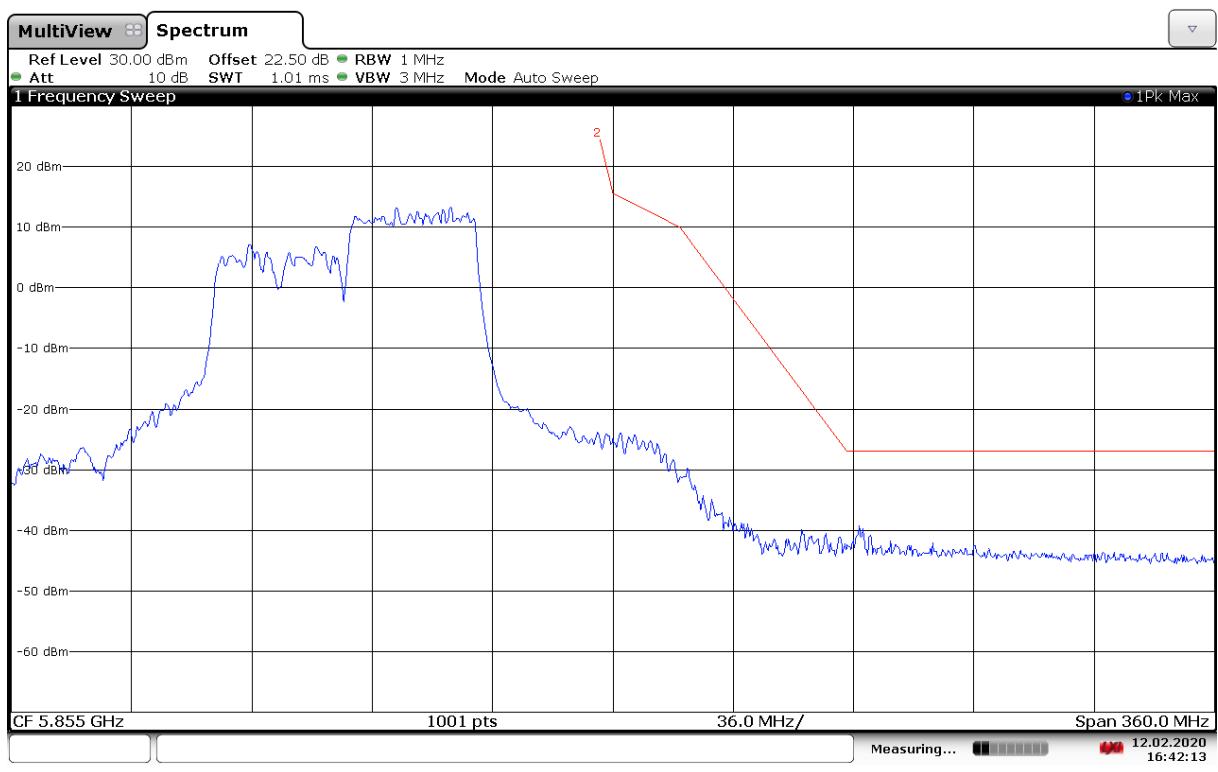


Fig. 160 Band Edges (802.11ax-HE40-RU484-right, 5775MHz)

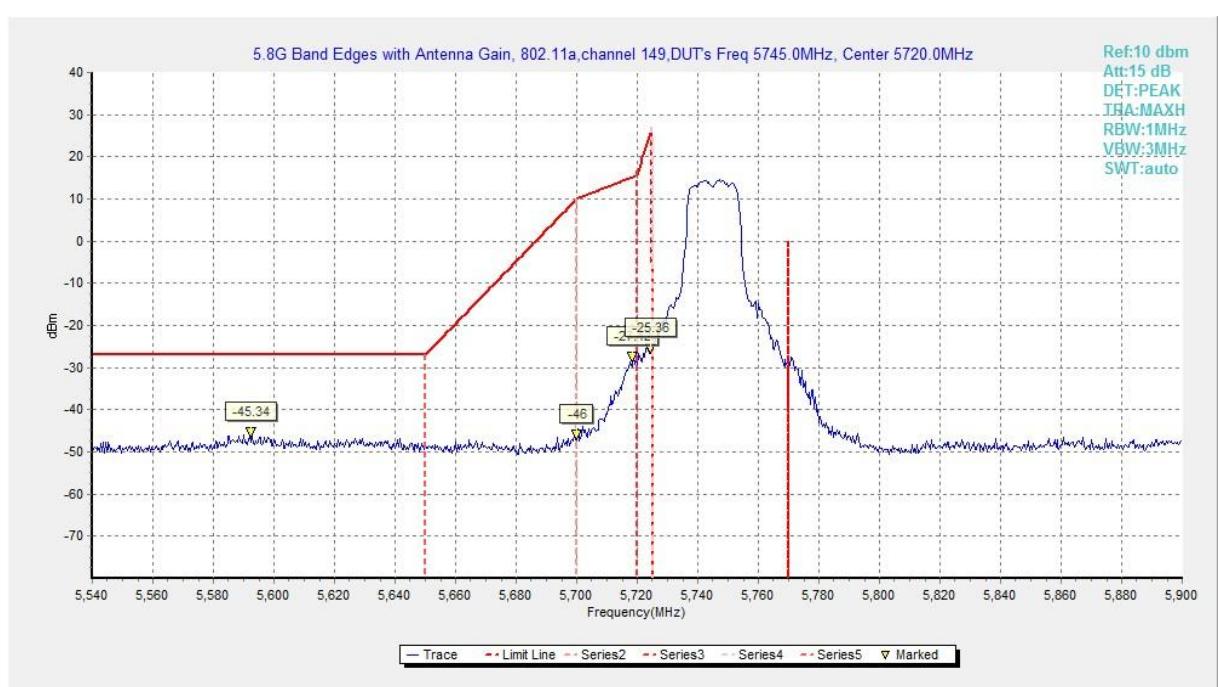


Fig. 161 Band Edges (802.11a, 5745MHz)

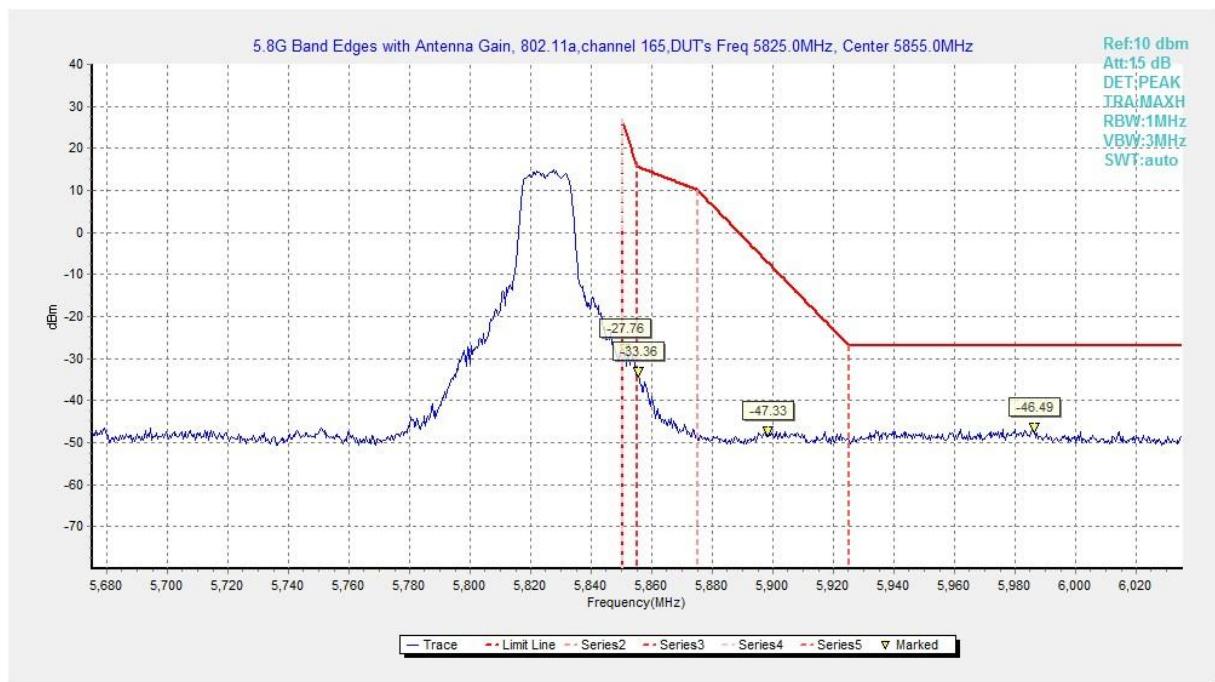
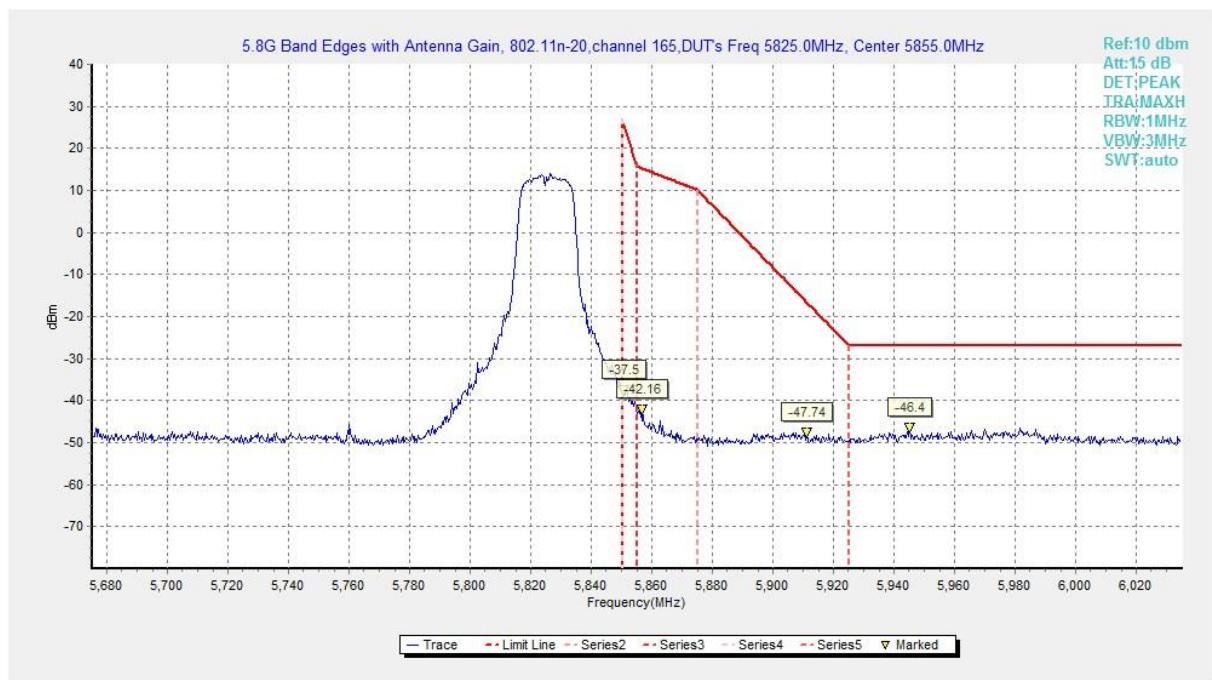
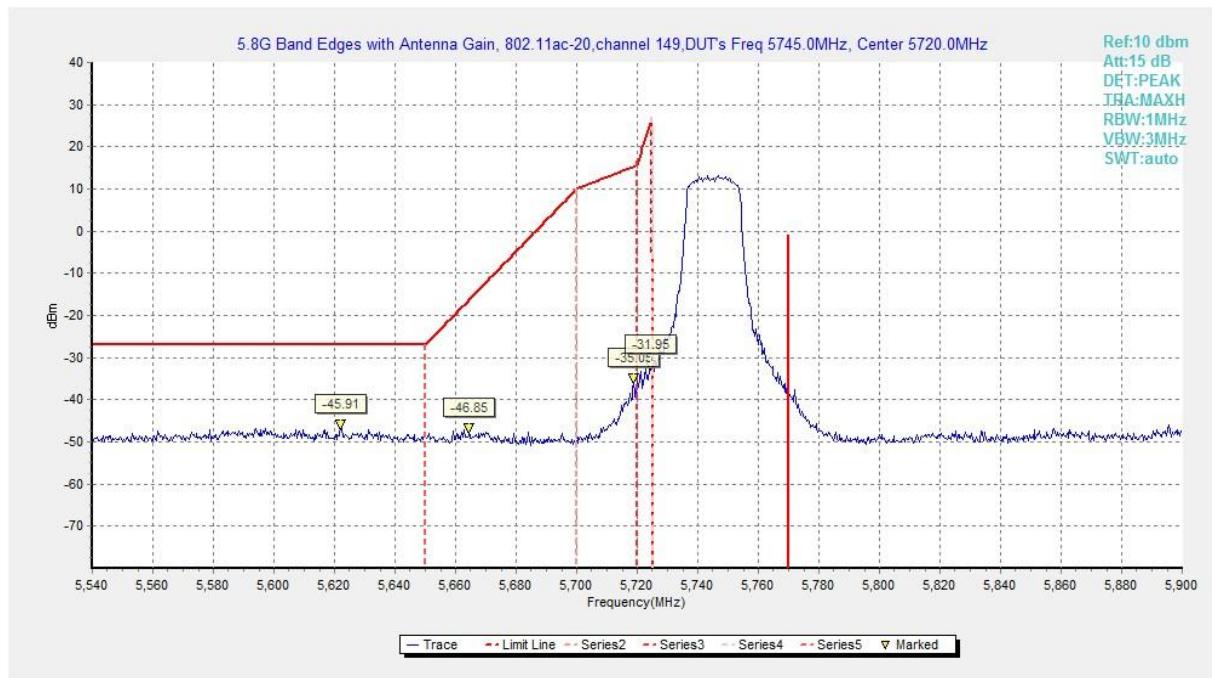

Fig. 162 Band Edges (802.11a, 5805MHz)

Fig. 163 Band Edges (802.11n-HT20, 5745MHz)


Fig. 164 Band Edges (802.11n-HT20, 5805MHz)

Fig. 165 Band Edges (802.11ac-HT20, 5745MHz)

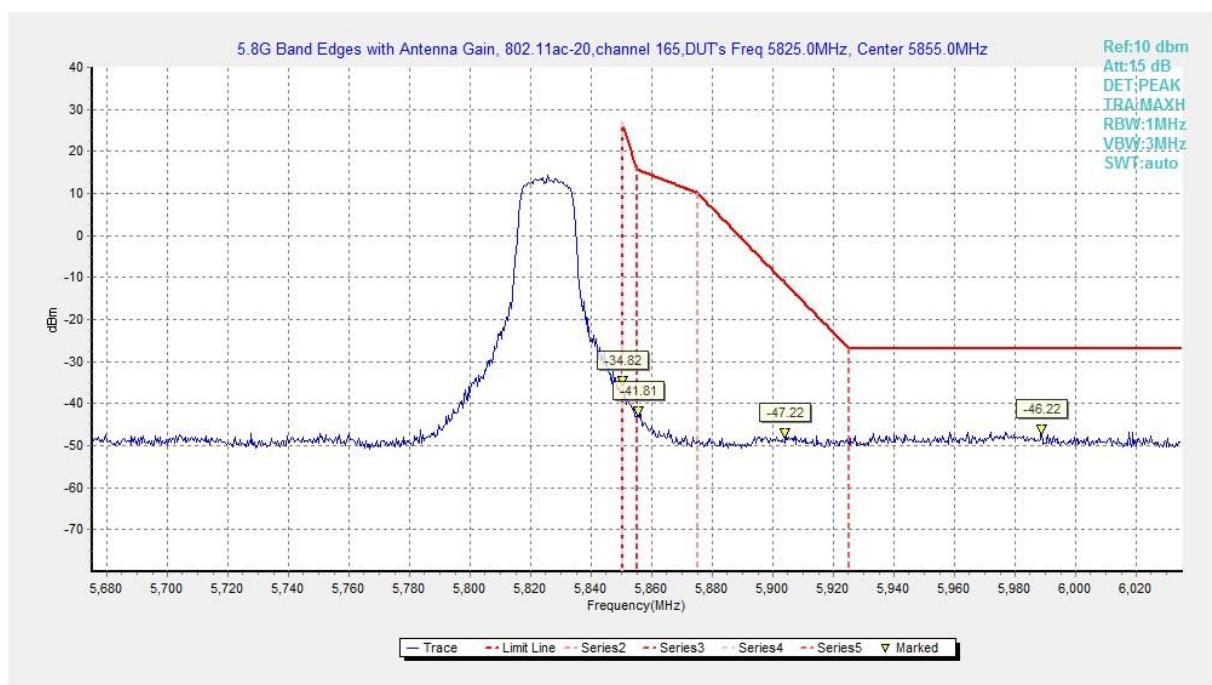


Fig. 166 Band Edges (802.11ac-HT20, 5805MHz)

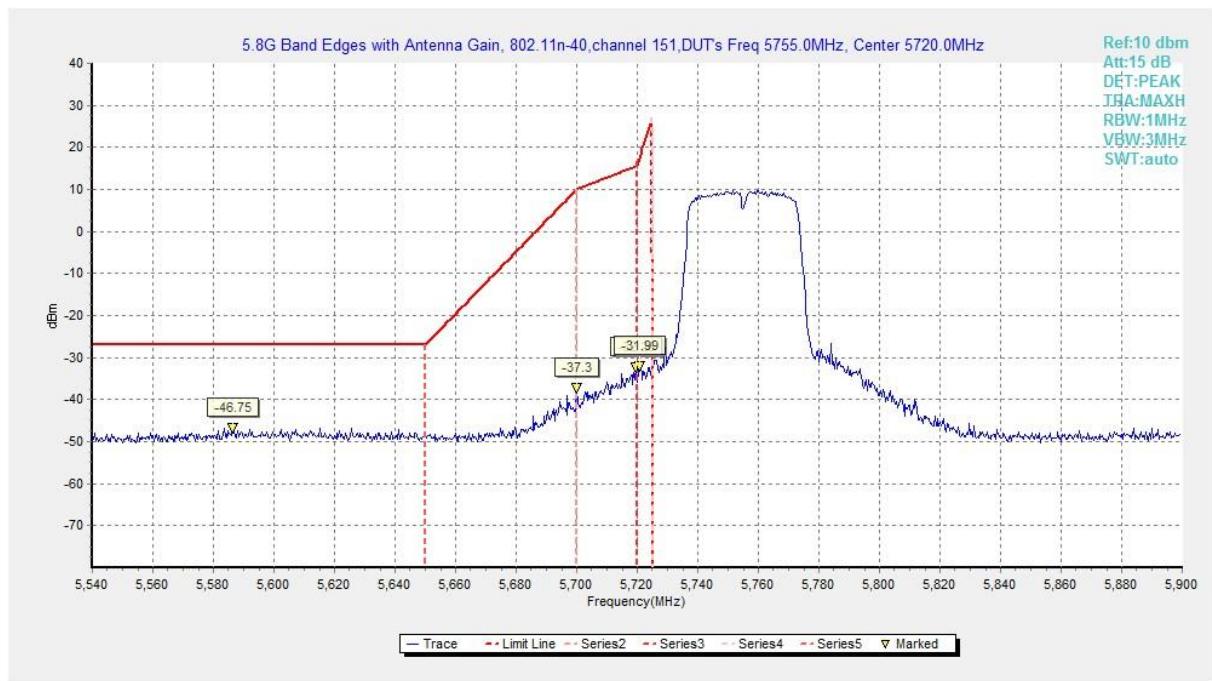
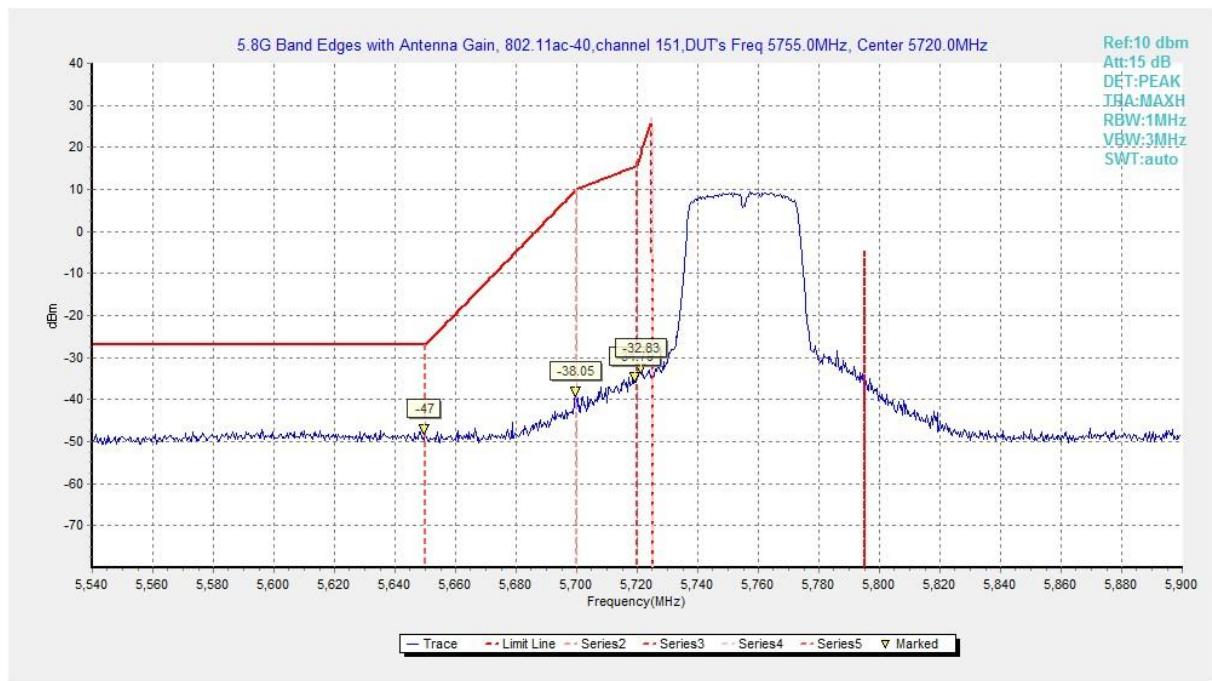


Fig. 167 Band Edges (802.11n-HT40, 5755MHz)


Fig. 168 Band Edges (802.11n-HT40, 5795MHz)

Fig. 169 Band Edges (802.11ac-HT40, 5755MHz)

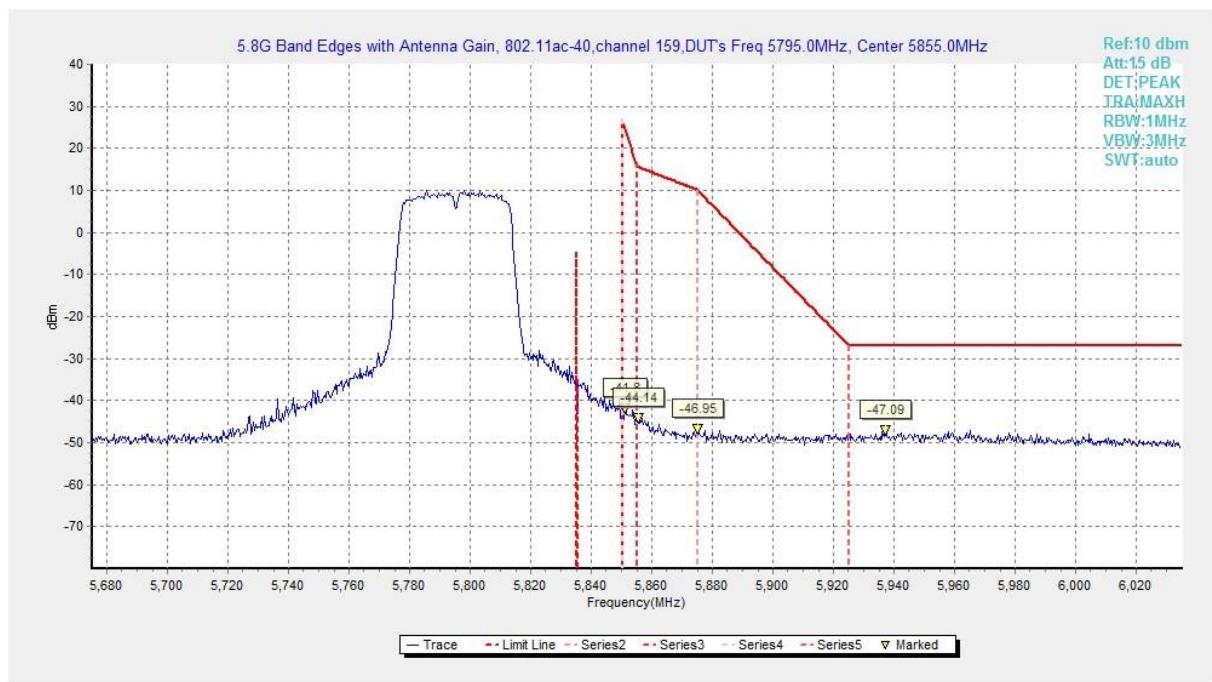


Fig. 170 Band Edges (802.11ac-HT40, 5795MHz)

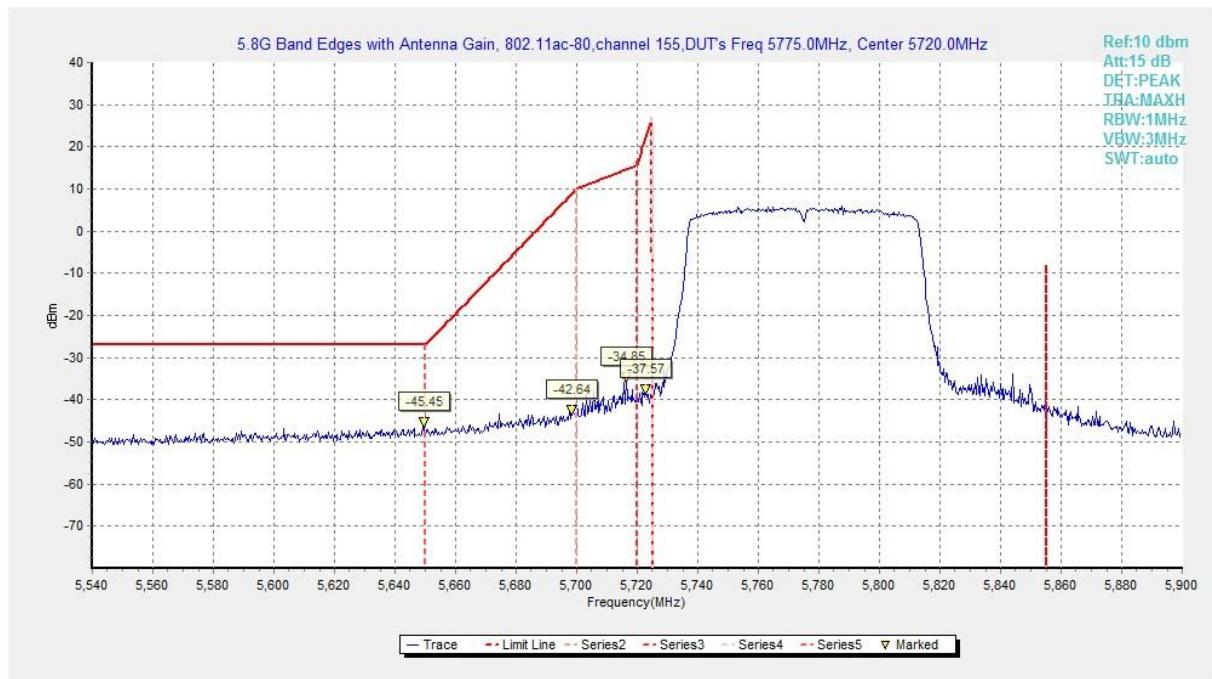
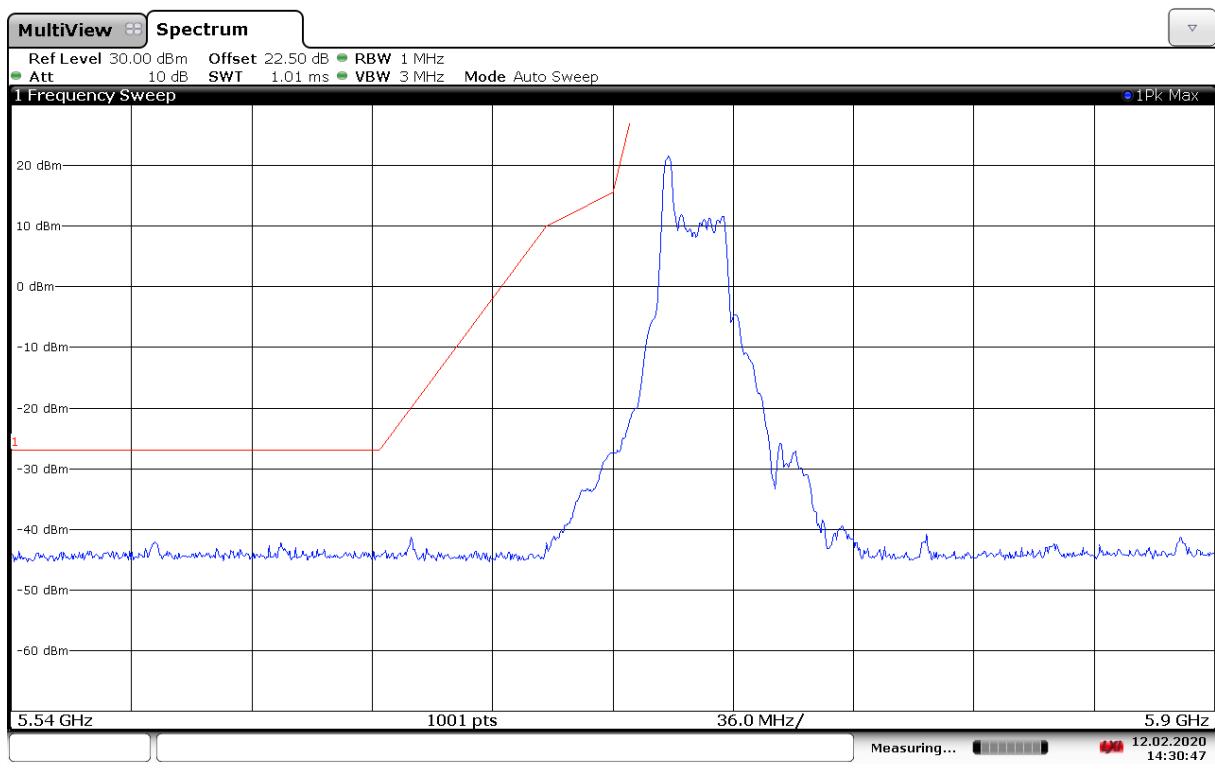


Fig. 171 Band Edges (802.11ac-HT80, 5775MHz)


Fig. 172 Band Edges (802.11ac-HT80, 5775MHz)

Fig. 173 Band Edges (802.11ax-HE20-RU26-left, 5745MHz)

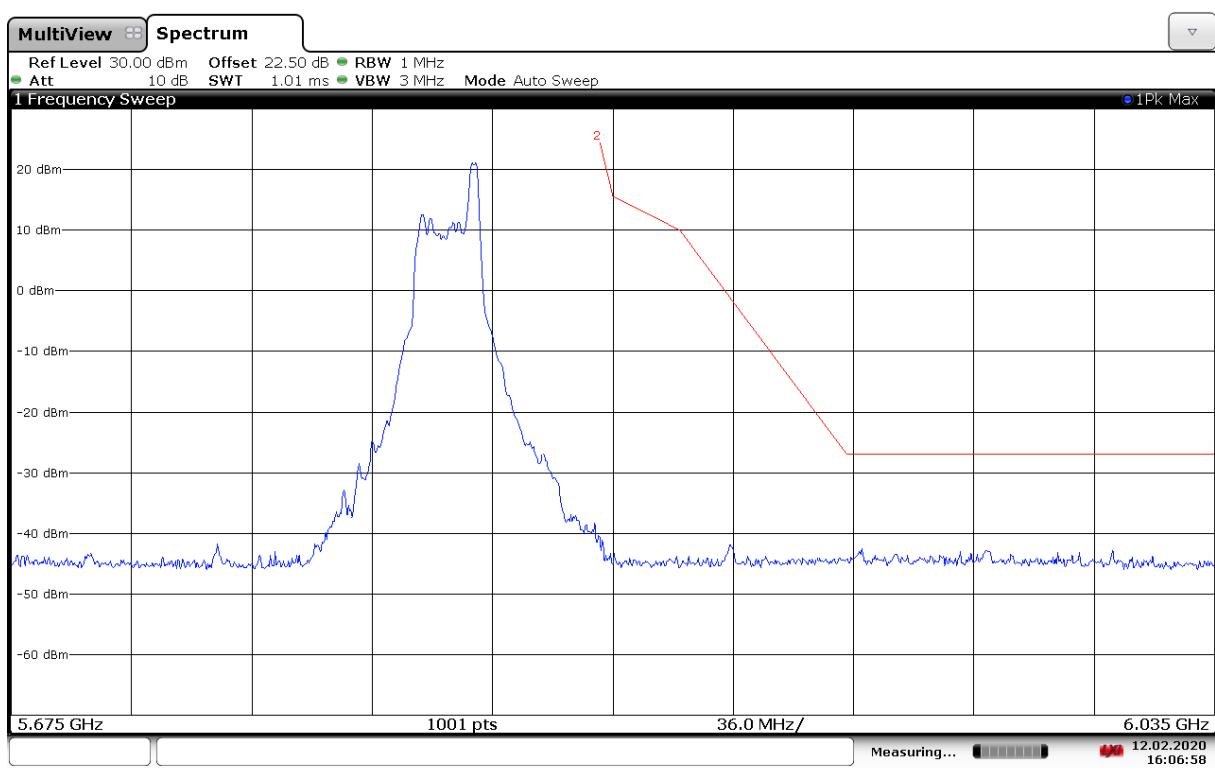


Fig. 174 Band Edges (802.11ax-HE20-RU26-right, 5805MHz)

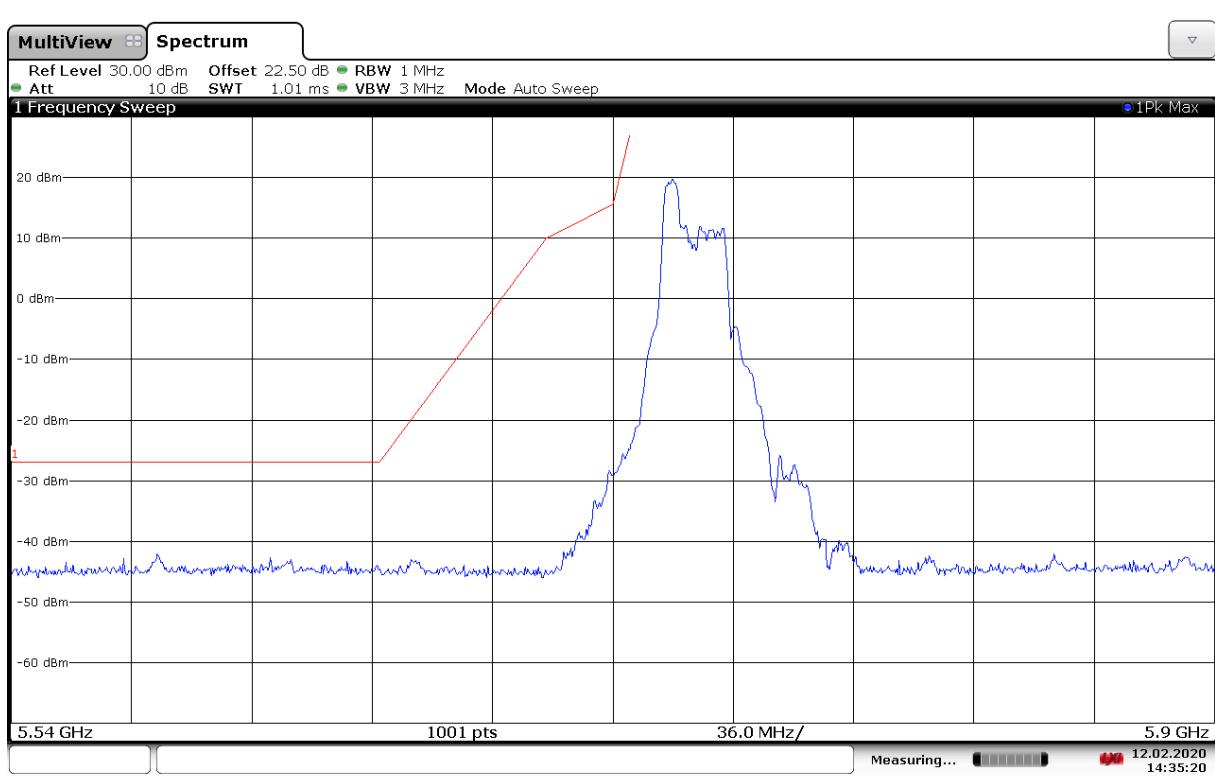


Fig. 175 Band Edges (802.11ax-HE20-RU52-left, 5745MHz)

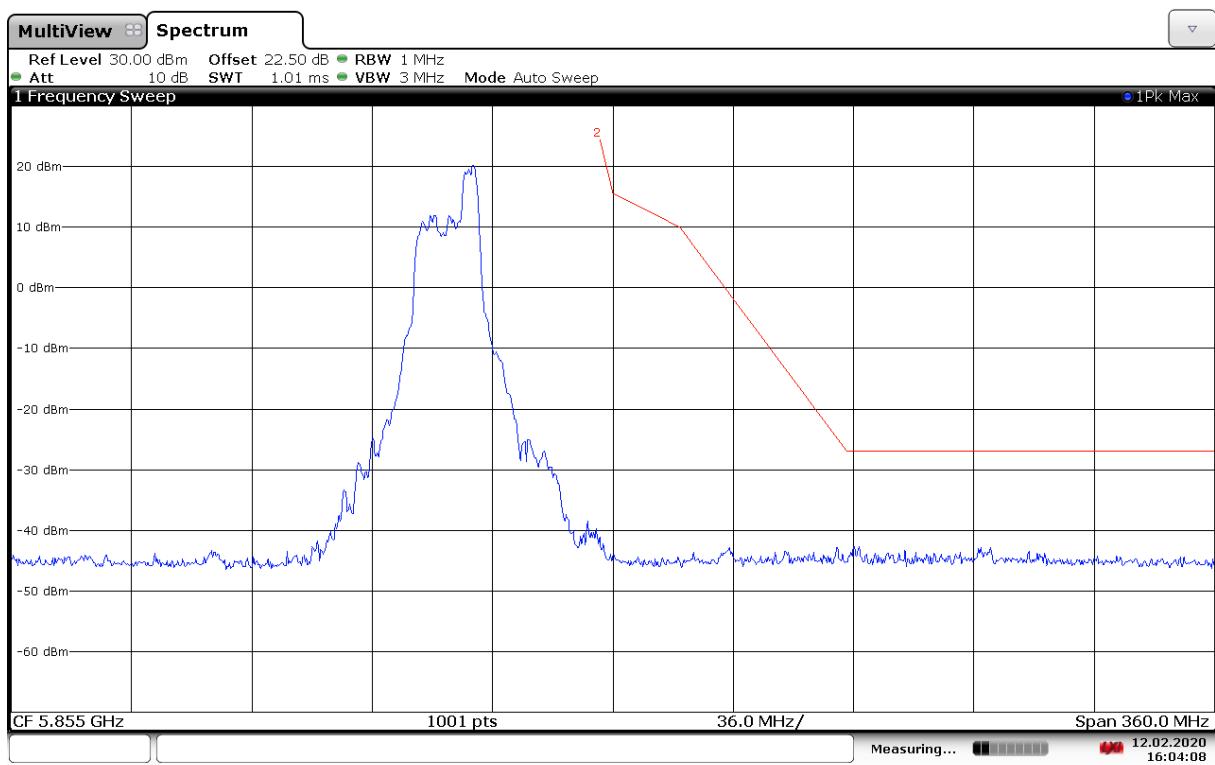


Fig. 176 Band Edges (802.11ax-HE20-RU52-right, 5805MHz)

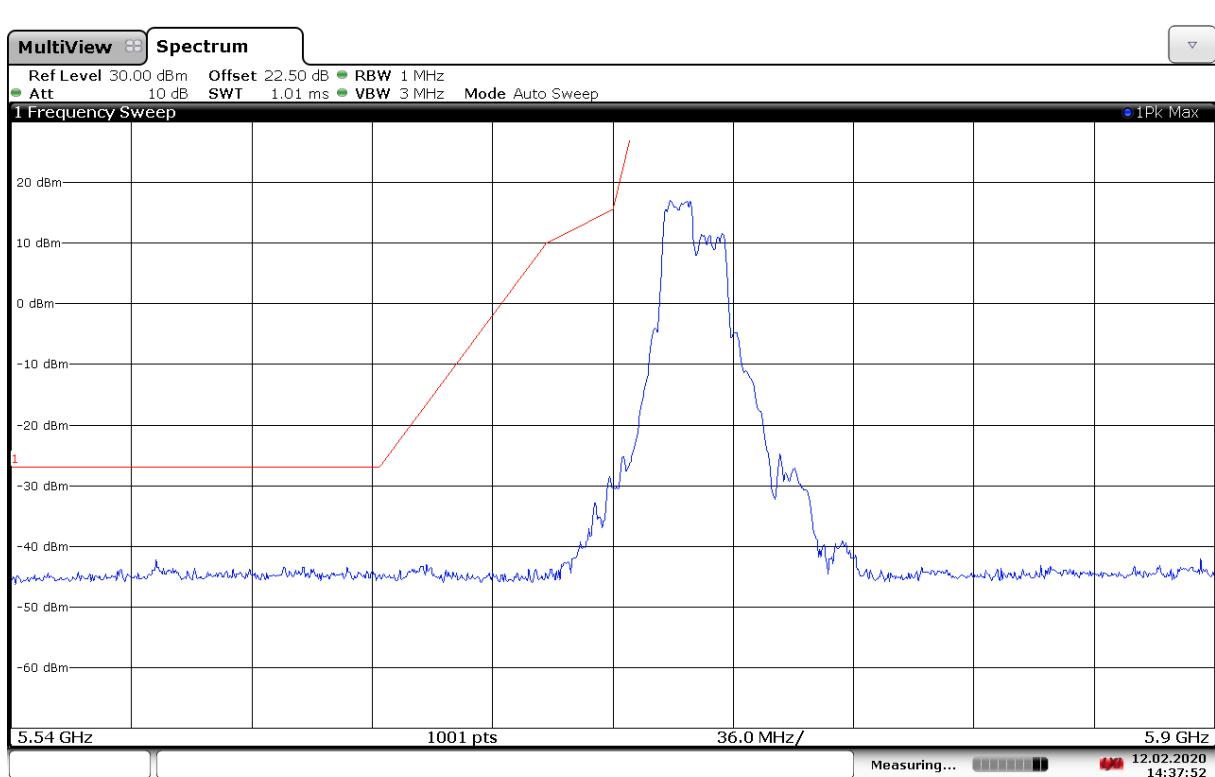


Fig. 177 Band Edges (802.11ax-HE20-RU106-left, 5745MHz)

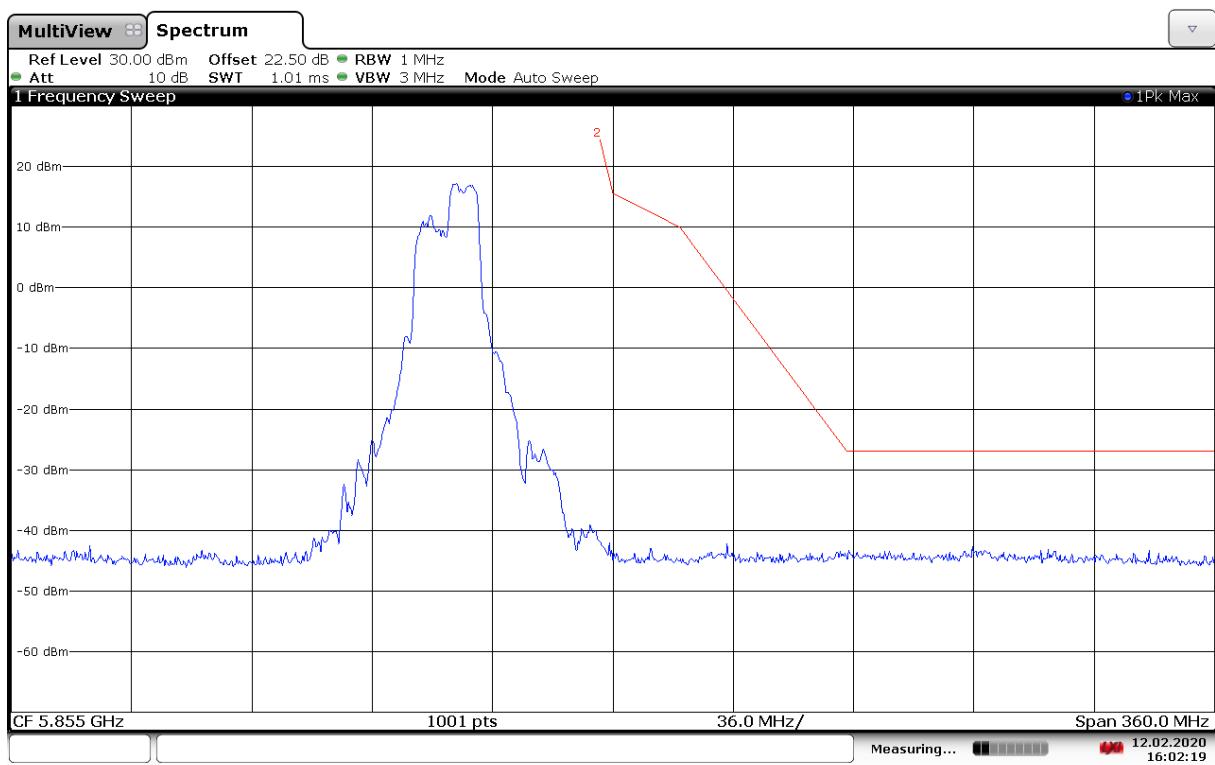


Fig. 178 Band Edges (802.11ax-HE20-RU106-right, 5805MHz)

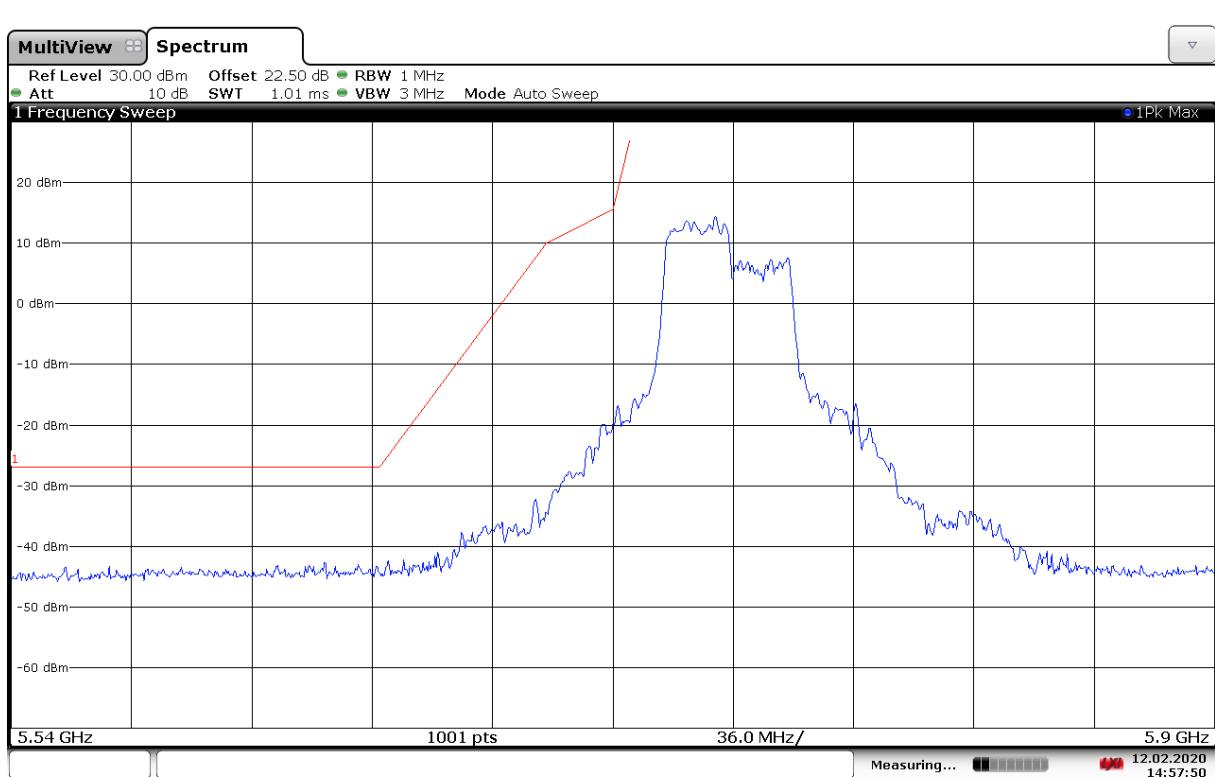


Fig. 179 Band Edges (802.11ax-HE40-RU242-left, 5755MHz)

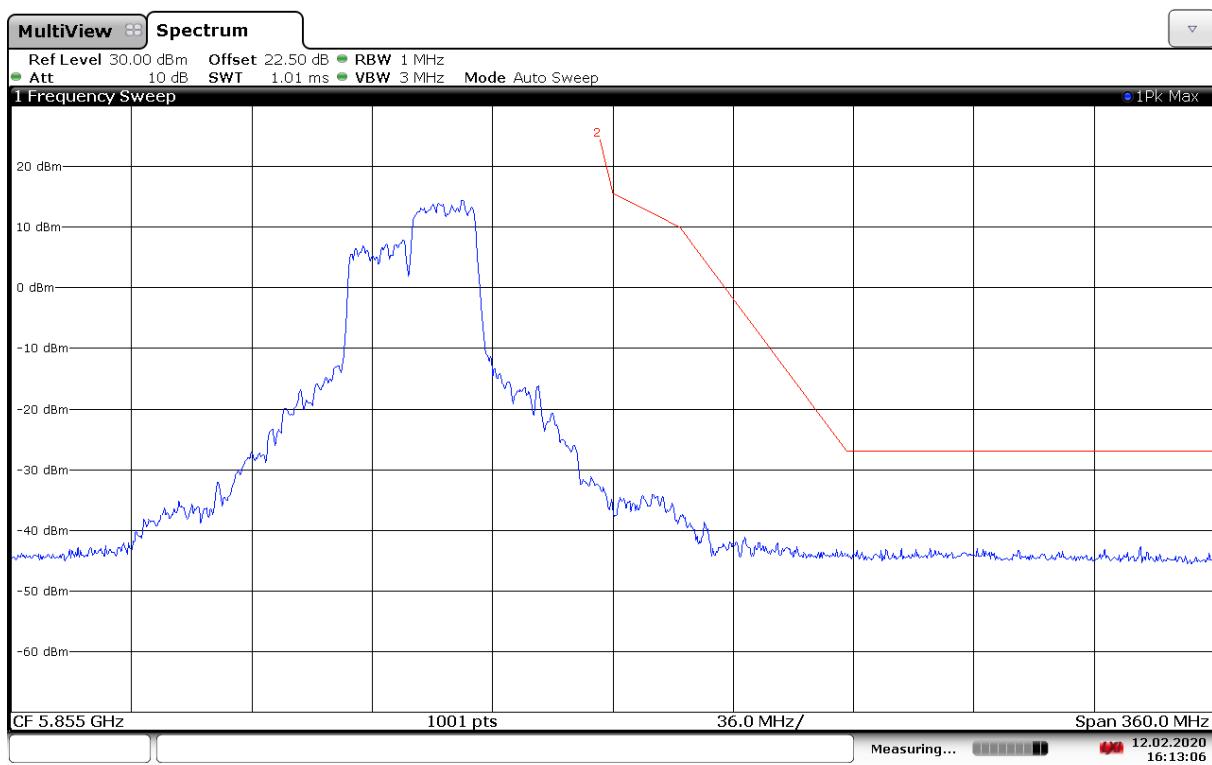


Fig. 180 Band Edges (802.11ax-HE40-RU242-right, 5795MHz)

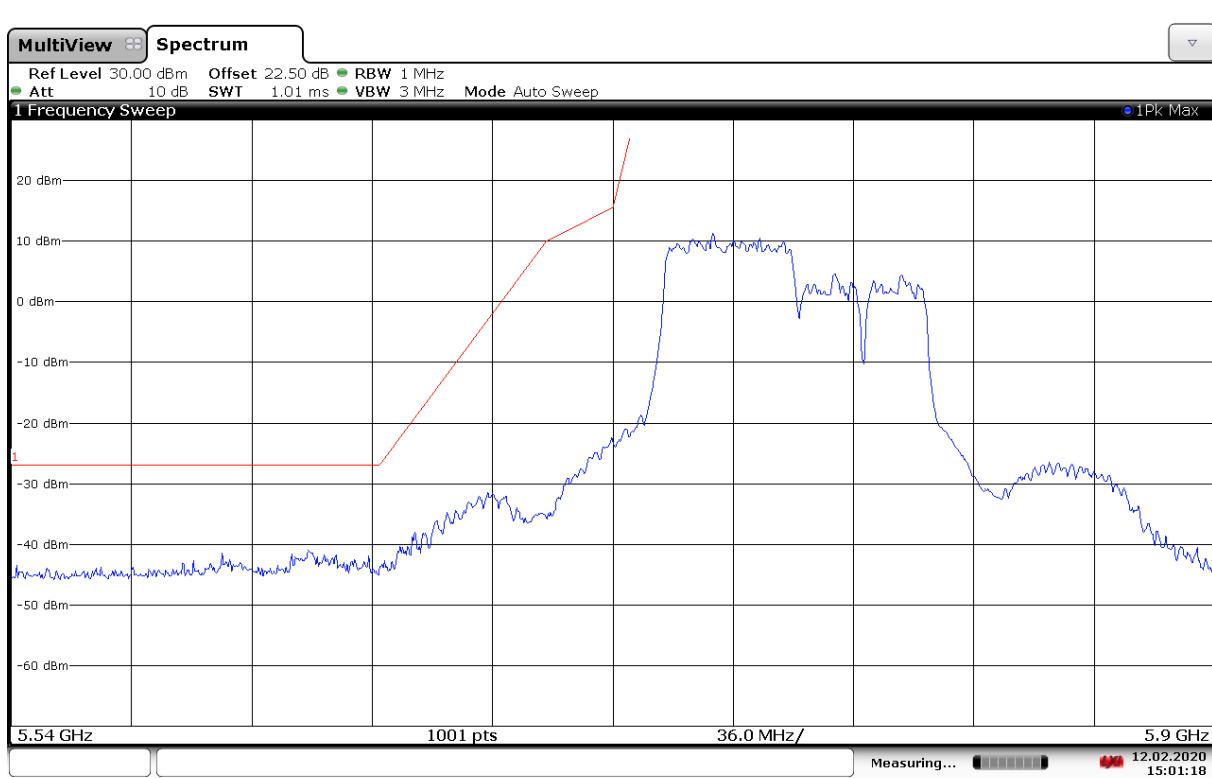


Fig. 181 Band Edges (802.11ax-HE80-RU484-left, 5775MHz)

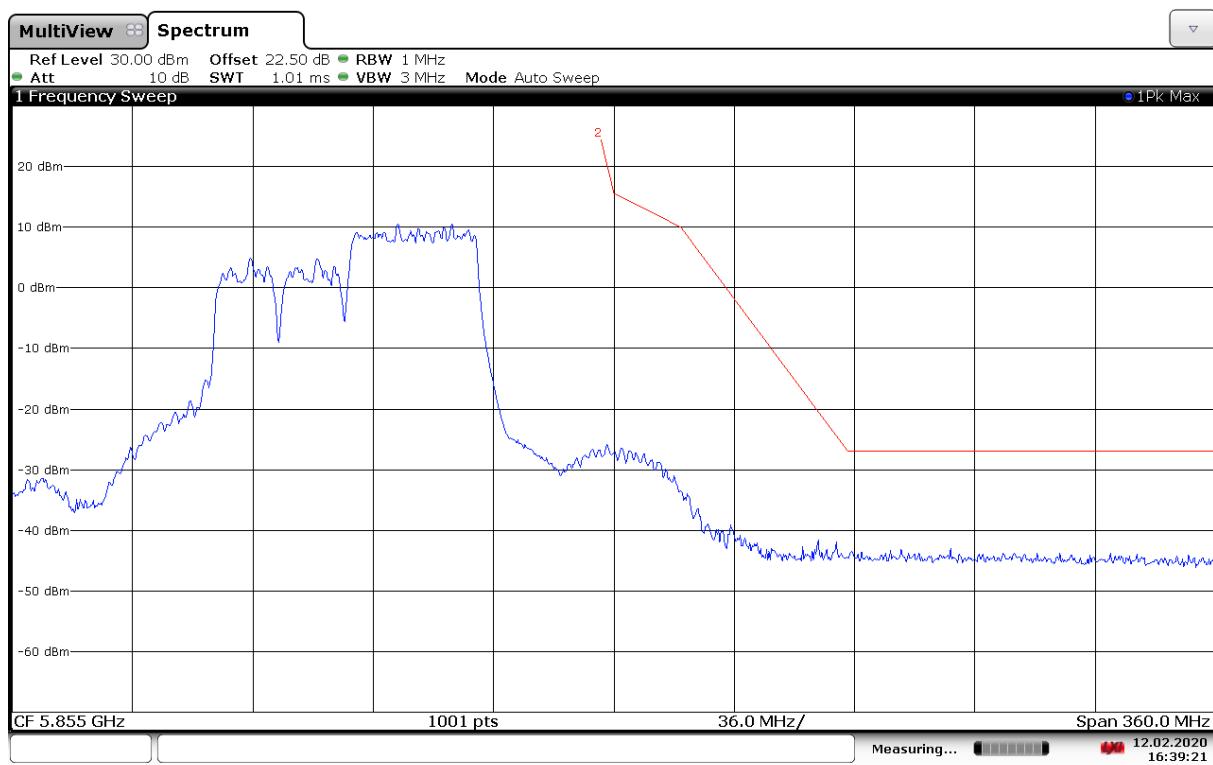


Fig. 182 Band Edges (802.11ax-HE40-RU484-right, 5775MHz)

A6.2 Band Edges - Radiated

Measurement Limit:

Standard	Limit (dBm/MHz)	
FCC 47 CFR Part 15.407	at the band edge	27
	at 5 MHz above or below the band edge	15.6
	at 25 MHz above or below the band edge	10
	at 75 MHz or more above or below the band edge	-27
	Note: increasing linearly from point to point.	

The measurement is made according to KDB 789033 D02

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)).

Measurement Result:

Mode	Channel	Test Results	Conclusion
802.11a	5745 MHz	Fig.183	P
	5825 MHz	Fig.184	P
802.11n HT20	5745 MHz	Fig.185	P
	5825 MHz	Fig.186	P
802.11ac HT20	5745 MHz	Fig.187	P
	5825 MHz	Fig.188	P
802.11ax HT20	5745 MHz	Fig.189	P
	5825 MHz	Fig.190	P

802.11n HT40	5755 MHz	Fig.191	P
	5795 MHz	Fig.192	P
802.11ac HT40	5755 MHz	Fig.193	P
	5795 MHz	Fig.194	P
802.11ax HT40	5755 MHz	Fig.195	P
	5795 MHz	Fig.196	P
802.11ac HT80	5775 MHz	Fig.197	P
	5775 MHz	Fig.198	P
802.11ax HT80	5775 MHz	Fig.199	P
	5775 MHz	Fig.200	P

Conclusion: PASS

Test graphs as below:

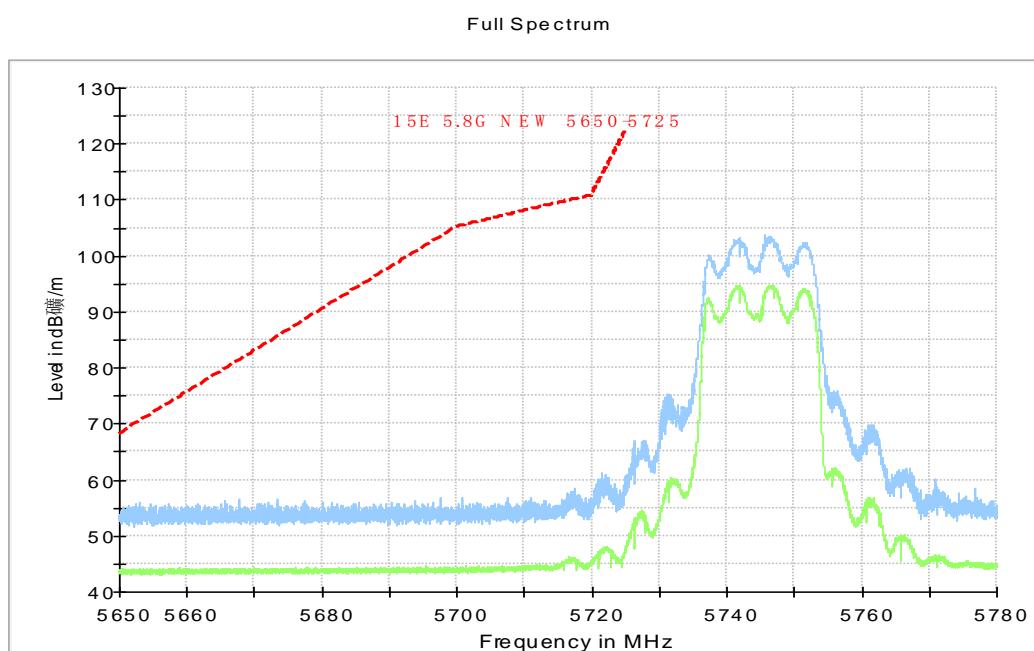


Fig. 183 Band Edges (EUT4, 802.11a, 5745MHz)

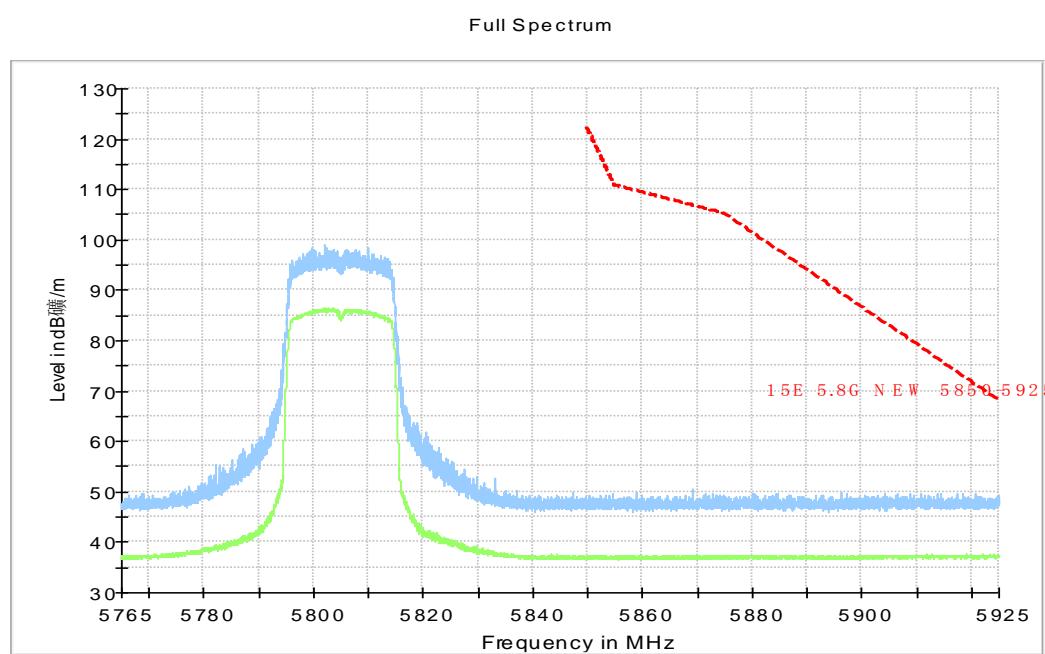


Fig. 184 Band Edges (EUT4, 802.11a, 5805MHz)

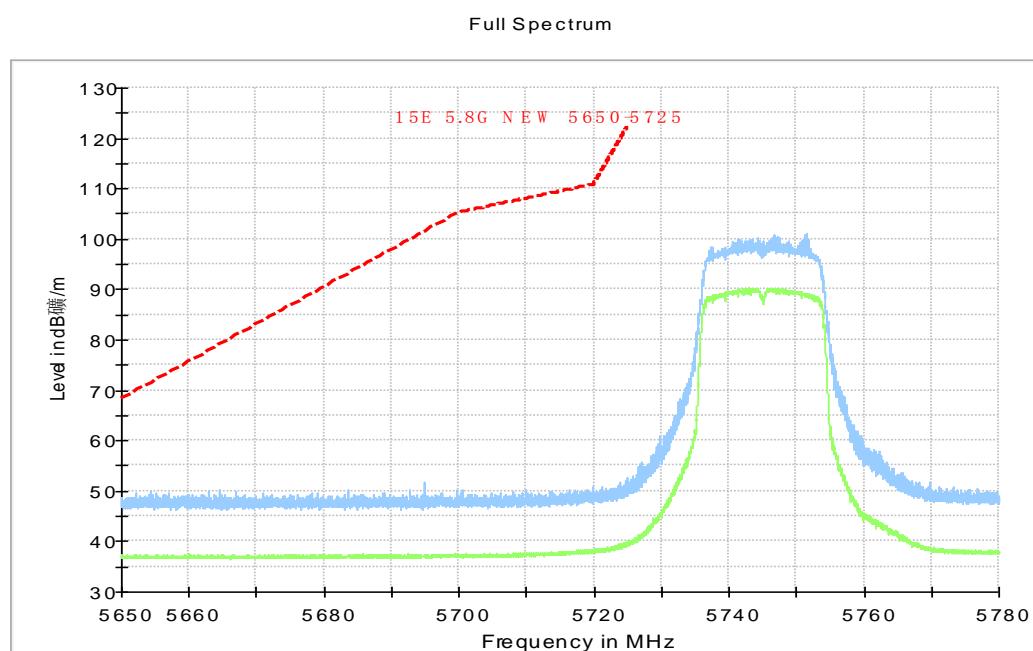


Fig. 185 Band Edges (EUT4, 802.11n-HT20, 5745MHz)

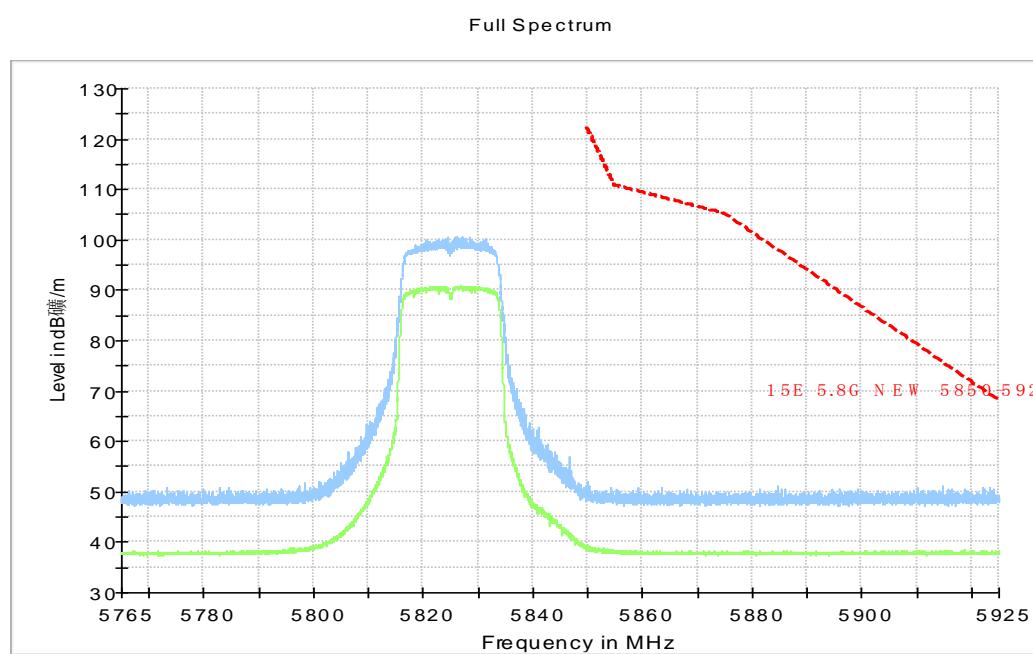


Fig. 186 Band Edges (EUT4, 802.11n-HT20, 5825MHz)

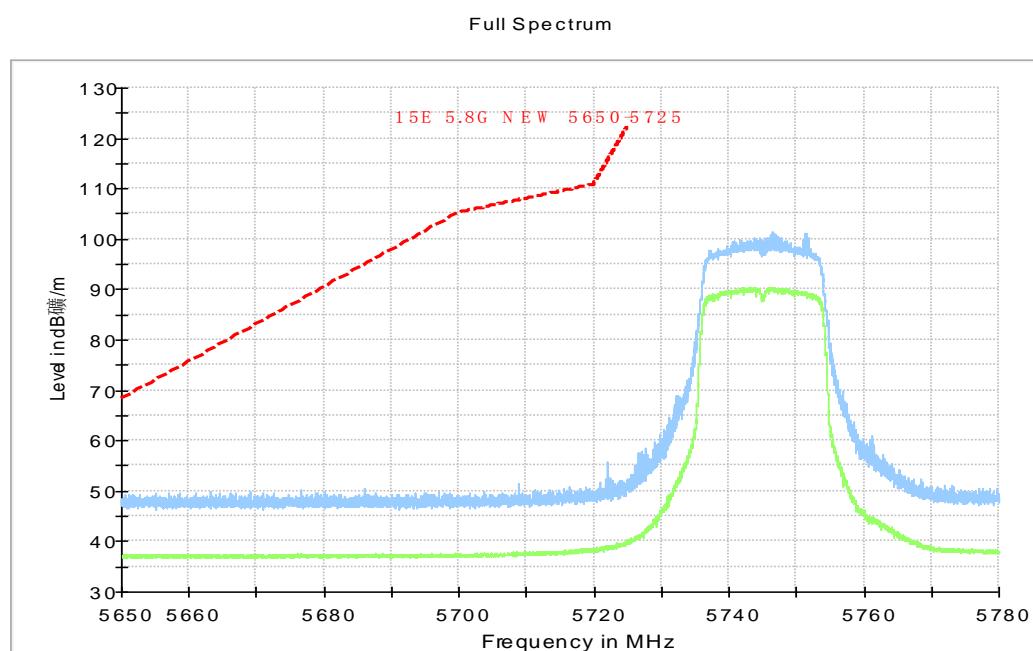


Fig. 187 Band Edges (EUT4, 802.11ac-HT20, 5745MHz)

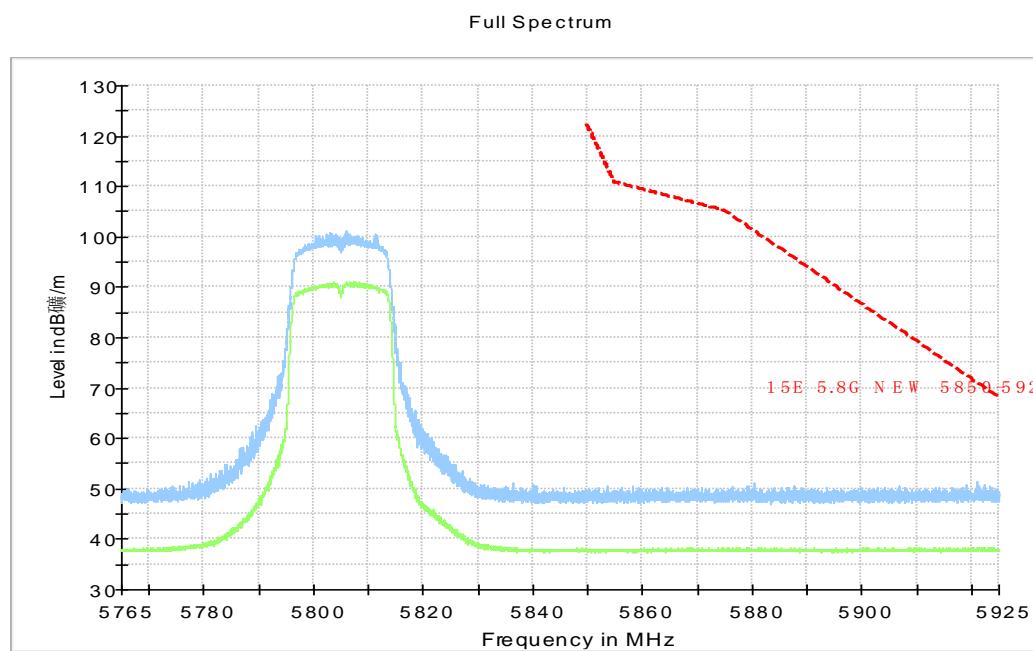


Fig. 188 Band Edges (EUT4, 802.11ac-HT20, 5805MHz)

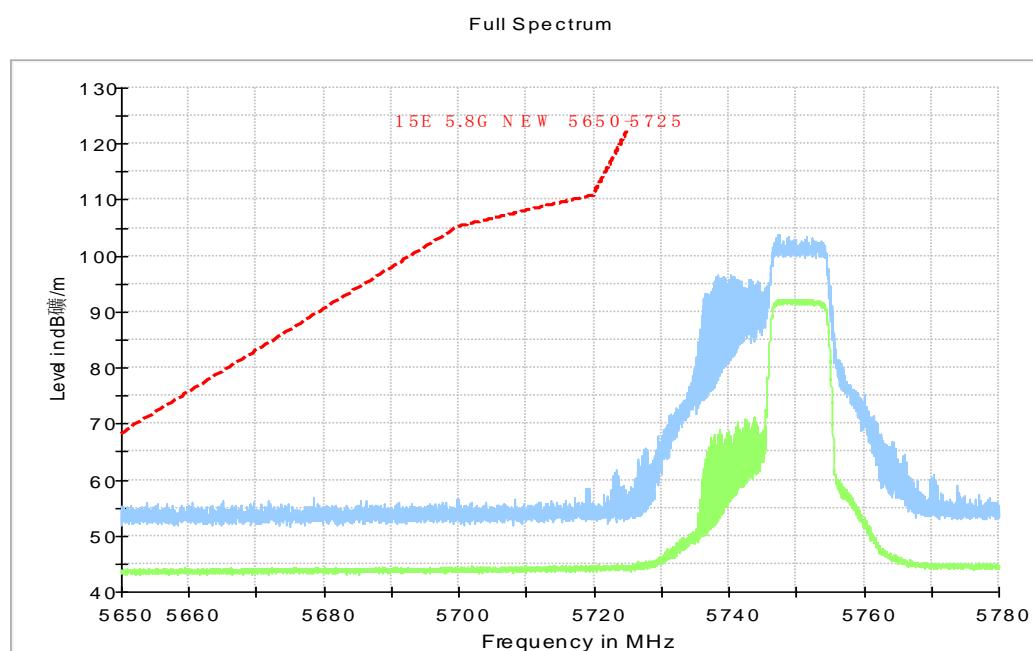


Fig. 189 Band Edges (EUT43, 802.11ax-HT20, 5745MHz)

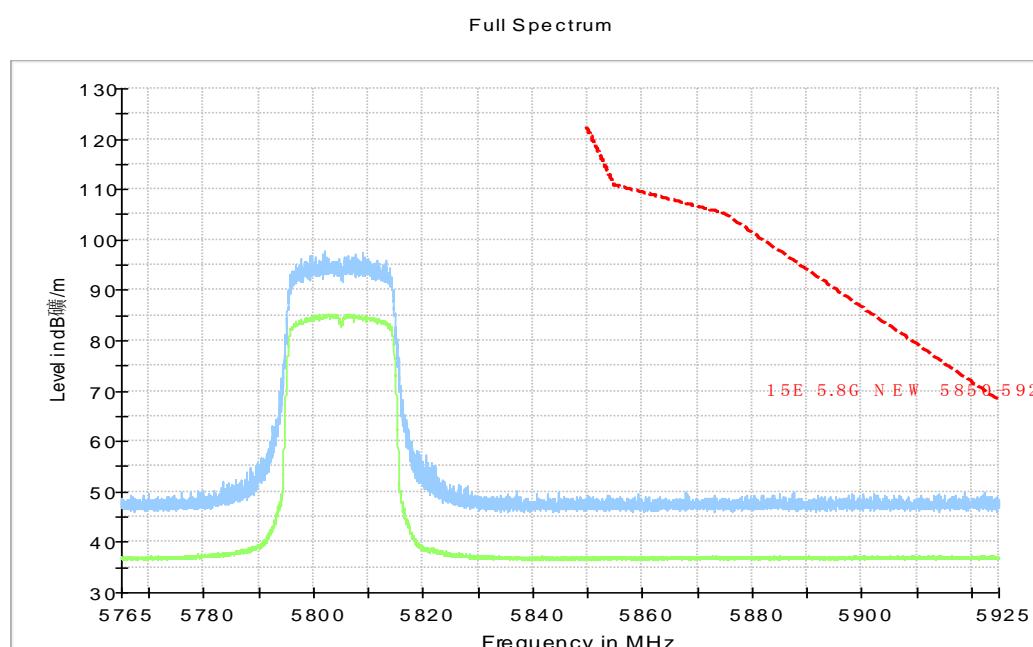


Fig. 190 Band Edges (EUT43, 802.11ax-HT20, 5805MHz)

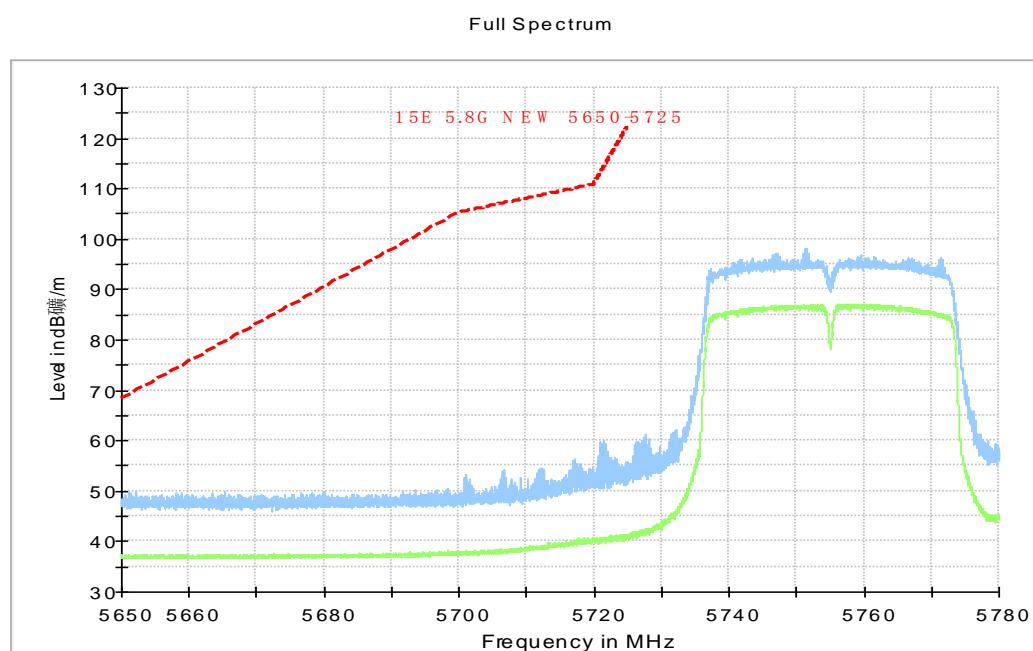


Fig. 191 Band Edges (EUT4, 802.11n-HT40, 5755MHz)

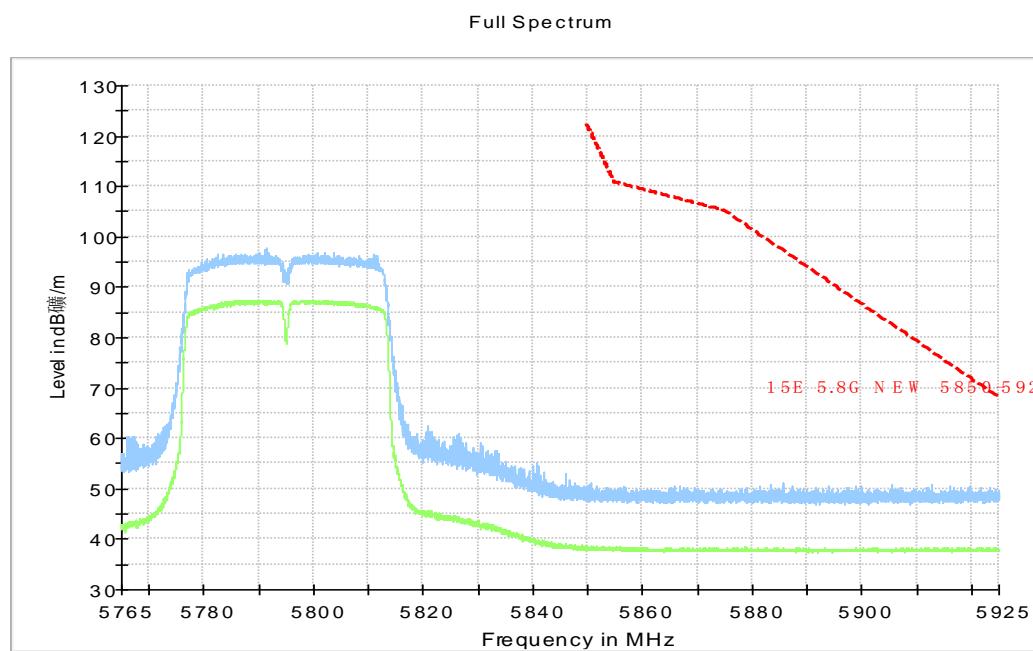


Fig. 192 Band Edges (EUT4, 802.11n-HT40, 5795MHz)

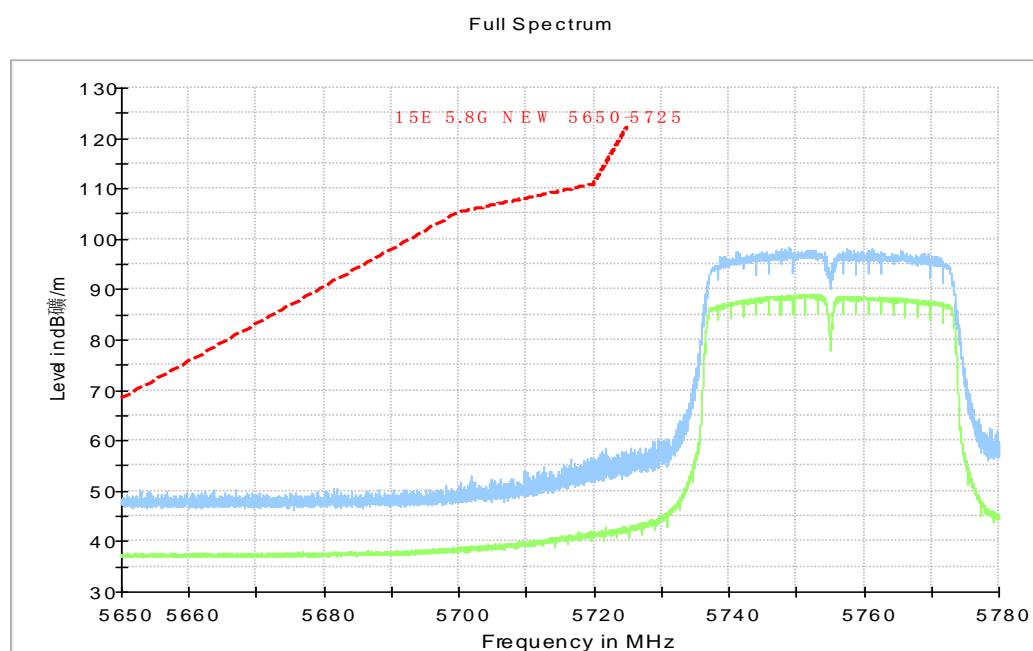


Fig. 193 Band Edges (EUT4, 802.11ac-HT40, 5755MHz)

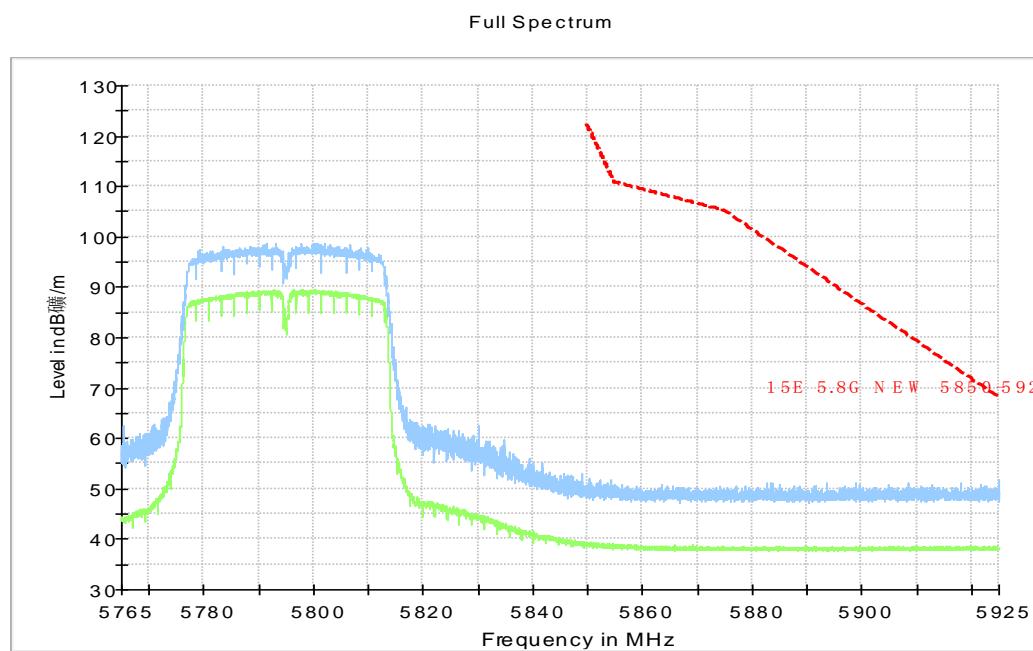


Fig. 194 Band Edges (EUT4, 802.11ac-HT40, 5795MHz)

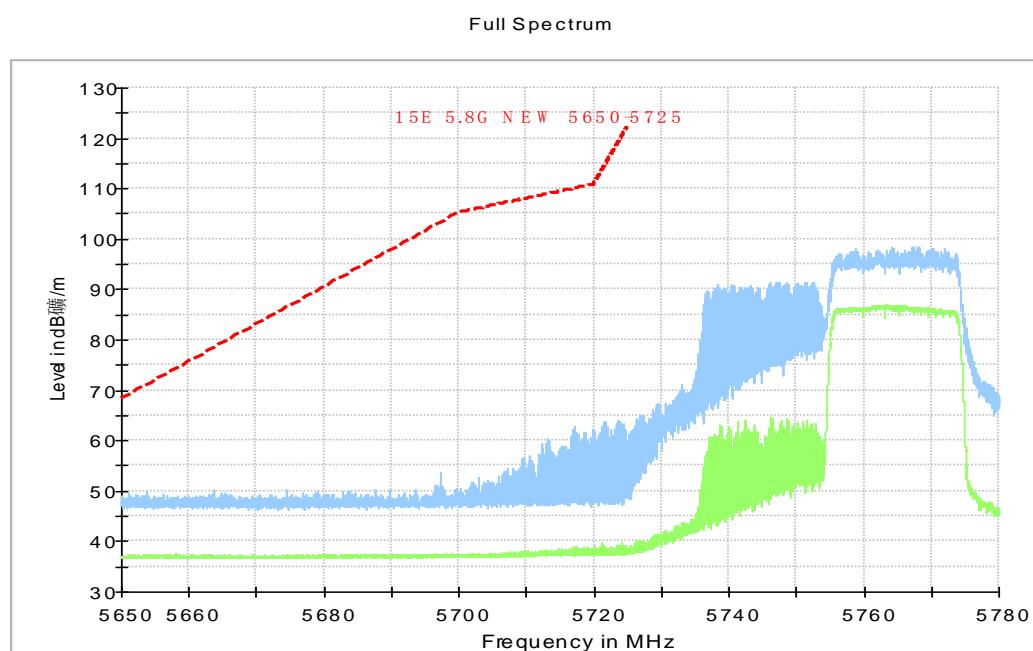


Fig. 195 Band Edges (EUT43, 802.11ax-HT40, 5755MHz)

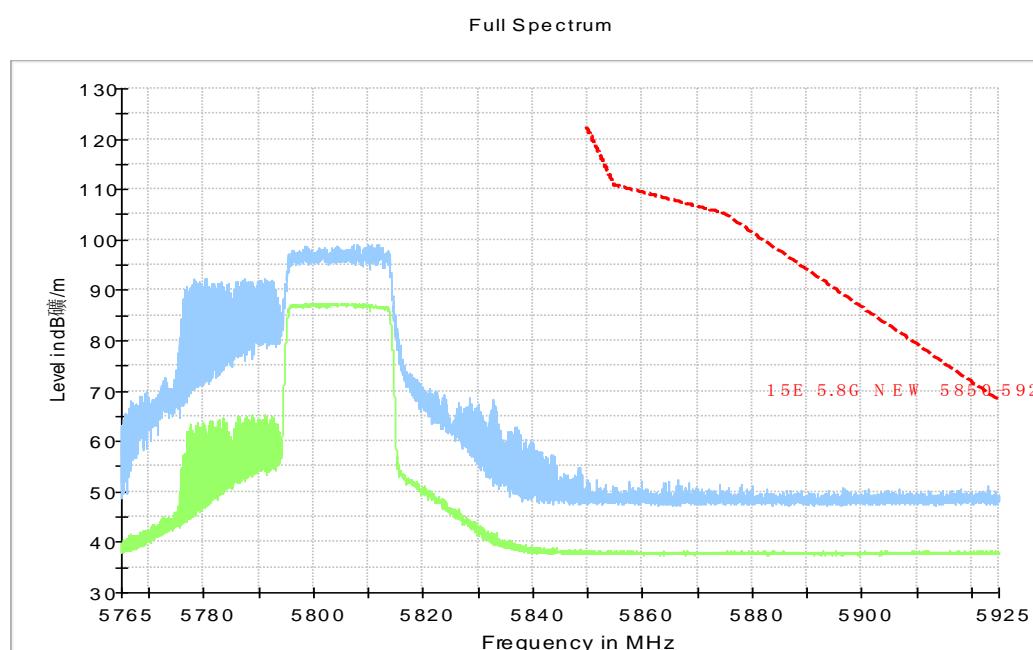


Fig. 196 Band Edges (EUT43, 802.11ax-HT40, 5795MHz)

//

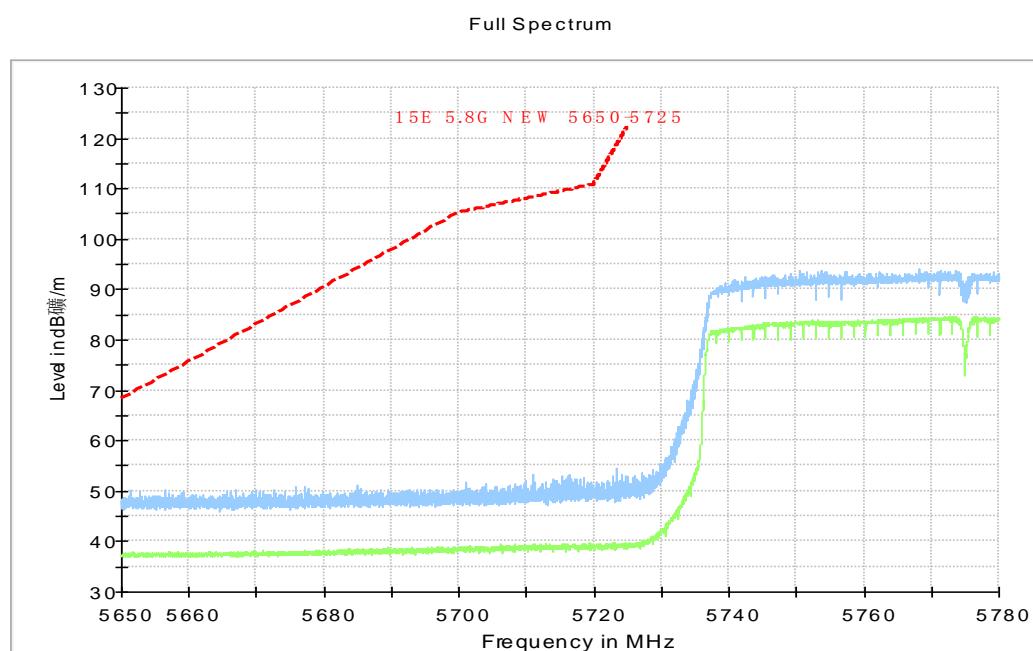


Fig. 197 Band Edges (EUT4, 802.11ac-HT80, 5755MHz)

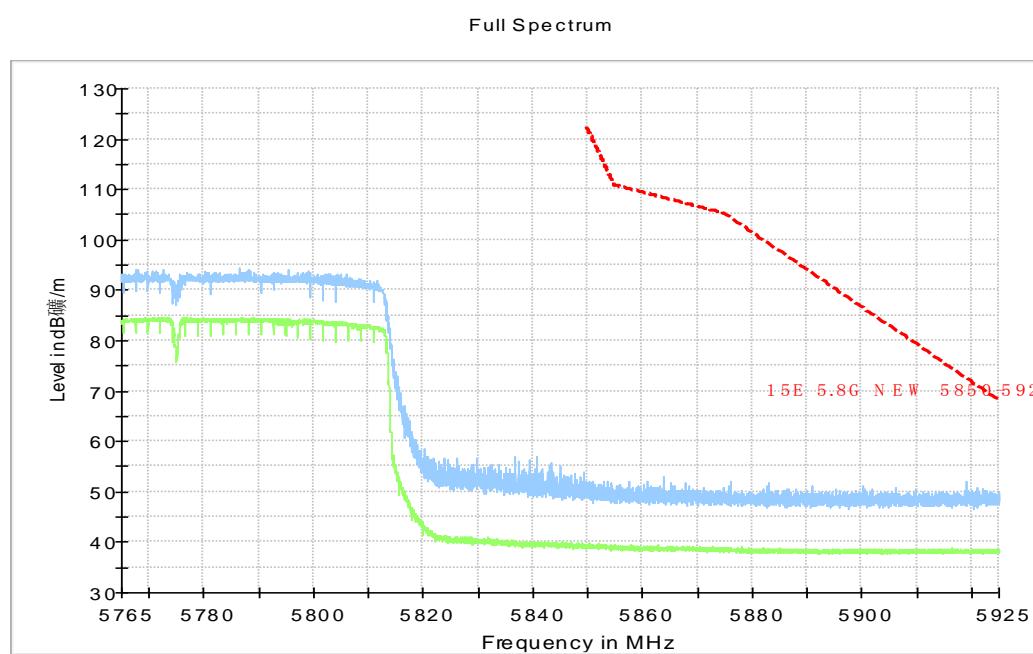


Fig. 198 Band Edges (EUT4, 802.11ac-HT80, 5775MHz)

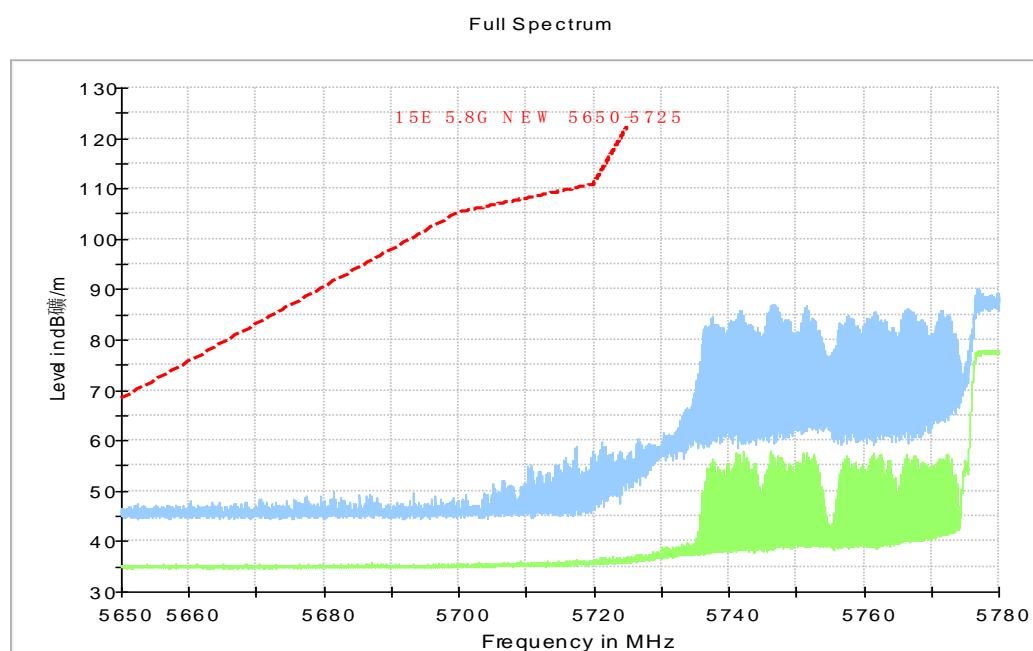


Fig. 199 Band Edges (EUT43, 802.11ax-HT80, 5775MHz)

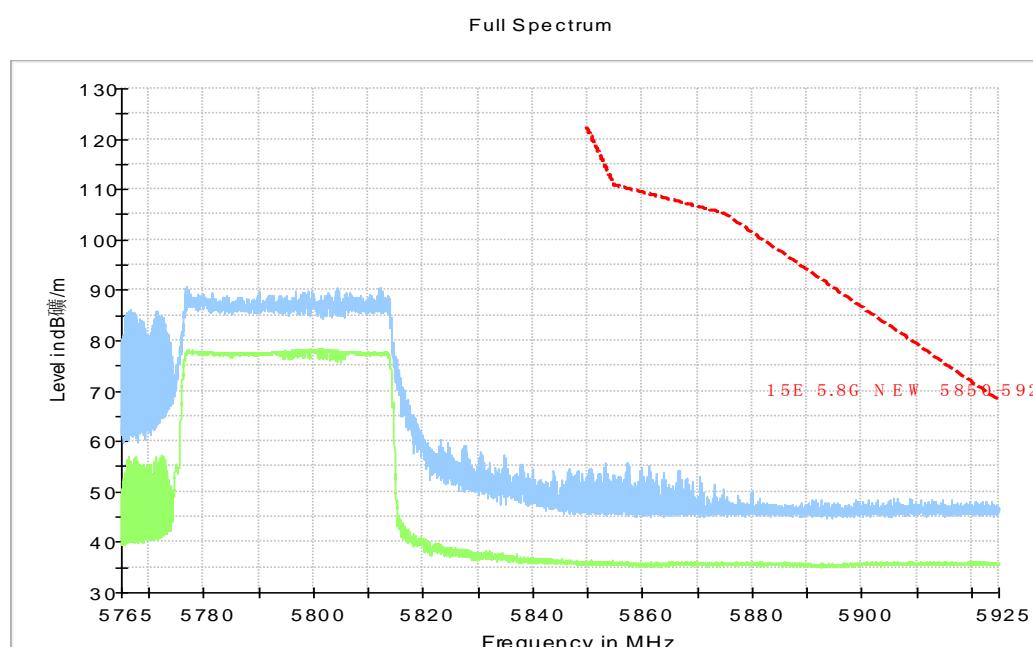


Fig. 200 Band Edges (EUT43, 802.11ax-HT80, 5775MHz)

A.7. AC Powerline Conducted Emission

Test Condition:

Voltage (V)	Frequency (Hz)
110	60

Measurement uncertainty:

Expanded measurement uncertainty for this test item is U =3.2dB, k=2.

Measurement Result and limit:

EUT4+AE1+AE3+AE6

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion	
		With charger			
		802.11a	Idle		
0.15 to 0.5	66 to 56	Fig.201	Fig.202	P	
0.5 to 5	56				
5 to 30	60				

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dB μ V)	Result (dB μ V)		Conclusion	
		With charger			
		802.11a	Idle		
0.15 to 0.5	56 to 46	Fig.201	Fig.202	P	
0.5 to 5	46				
5 to 30	50				

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

EUT43+AE11+AE13+AE16

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion	
		With charger			
		802.11a	Idle		
0.15 to 0.5	67 to 56	Fig.203	Fig.204	P	
0.5 to 5	56				
5 to 30	60				

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dB μ V)	Result (dB μ V)		Conclusion	
		With charger			
		802.11a	Idle		
0.15 to 0.5	56 to 46	Fig.203	Fig.204	P	
0.5 to 5	46				
5 to 30	50				

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

The measurement is made according to ANSI C63.10 .

Conclusion: PASS
Test graphs as below:

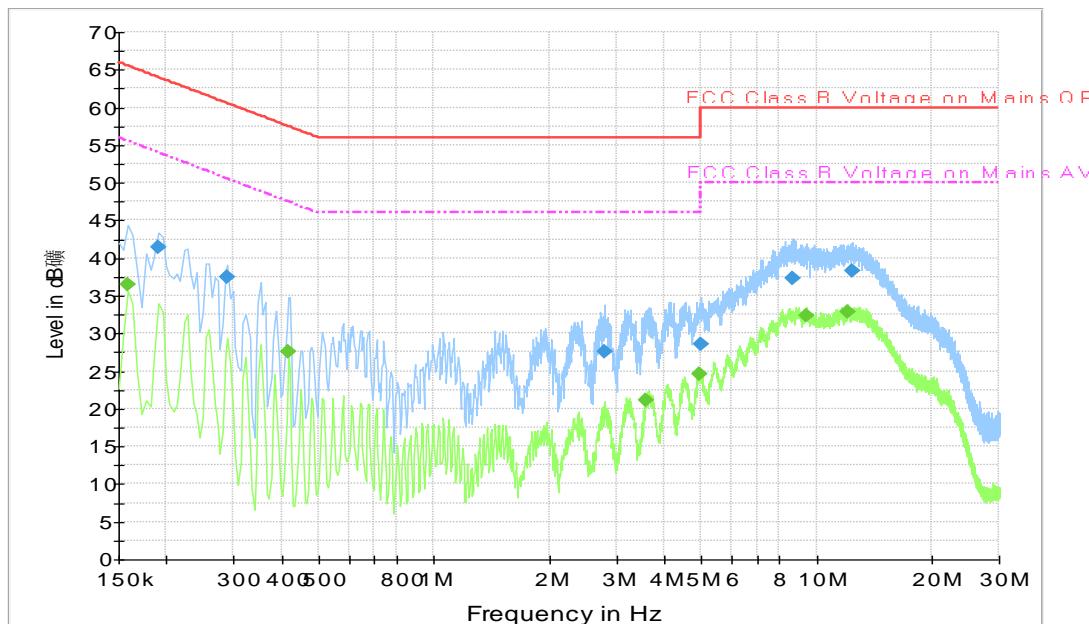


Fig. 201 AC Powerline Conducted Emission-802.11a EUT4(M2001J2G)+AE1+AE3+AE6

Measurement Result 1:

Frequency (MHz)	QuasiPeak (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.190500	41.4	L1	19.8	22.6	64.0
0.289500	37.4	N	19.9	23.1	60.5
2.787000	27.6	N	19.8	28.4	56.0
4.978500	28.6	N	19.8	27.4	56.0
8.655000	37.2	L1	19.8	22.8	60.0
12.435000	38.4	L1	19.9	21.6	60.0

Measurement Result 2:

Frequency (MHz)	Average (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.159000	36.5	L1	19.8	19.0	55.5
0.415500	27.6	N	19.9	20.0	47.5
3.597000	21.1	L1	19.8	24.9	46.0
4.960500	24.6	L1	19.8	21.4	46.0
9.415500	32.4	L1	19.8	17.6	50.0
12.048000	32.9	L1	19.8	17.1	50.0

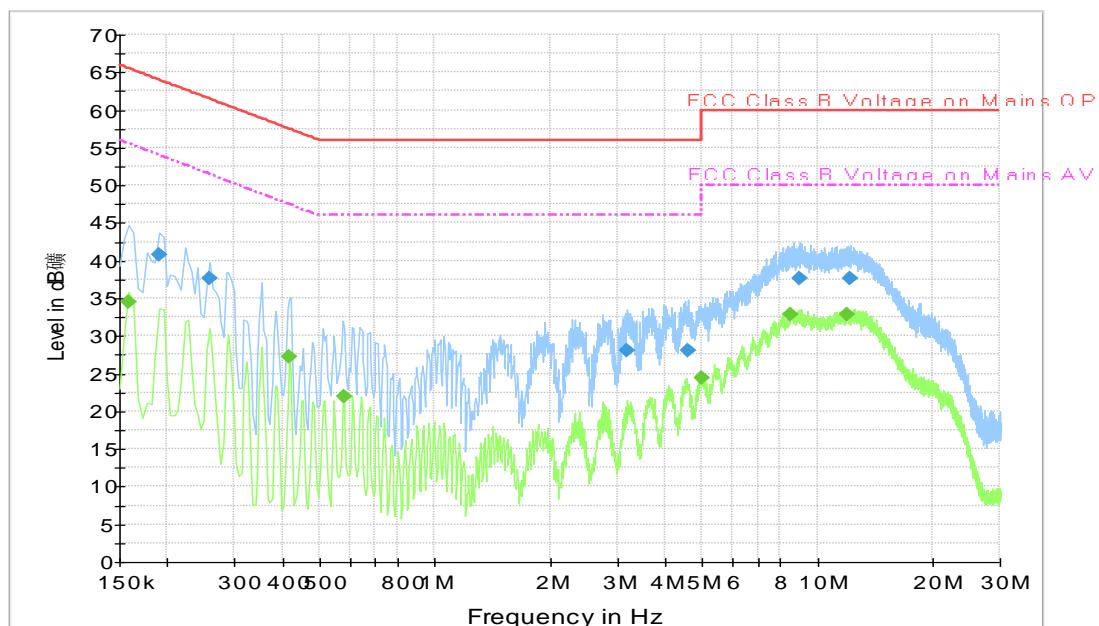


Fig. 202 AC Powerline Conducted Emission-Idle EUT4(M2001J2G)+AE1+AE3+AE6

Measurement Result 1:

Frequency (MHz)	QuasiPeak (dB _{μV})	Line	Corr. (dB)	Margin (dB)	Limit (dB _{μV})
0.190500	40.7	N	19.9	23.3	64.0
0.258000	37.6	N	19.9	23.9	61.5
3.187500	28.1	N	19.8	27.9	56.0
4.587000	28.0	N	19.8	28.0	56.0
8.965500	37.7	L1	19.8	22.3	60.0
12.196500	37.7	L1	19.9	22.3	60.0

Measurement Result 2:

Frequency (MHz)	Average (dB _{μV})	Line	Corr. (dB)	Margin (dB)	Limit (dB _{μV})
0.159000	34.4	N	19.9	21.1	55.5
0.415500	27.3	N	19.9	20.2	47.5
0.577500	22.0	N	19.9	24.0	46.0
4.996500	24.4	L1	19.8	21.6	46.0
8.520000	32.9	L1	19.8	17.1	50.0
11.949000	32.9	L1	19.8	17.1	50.0

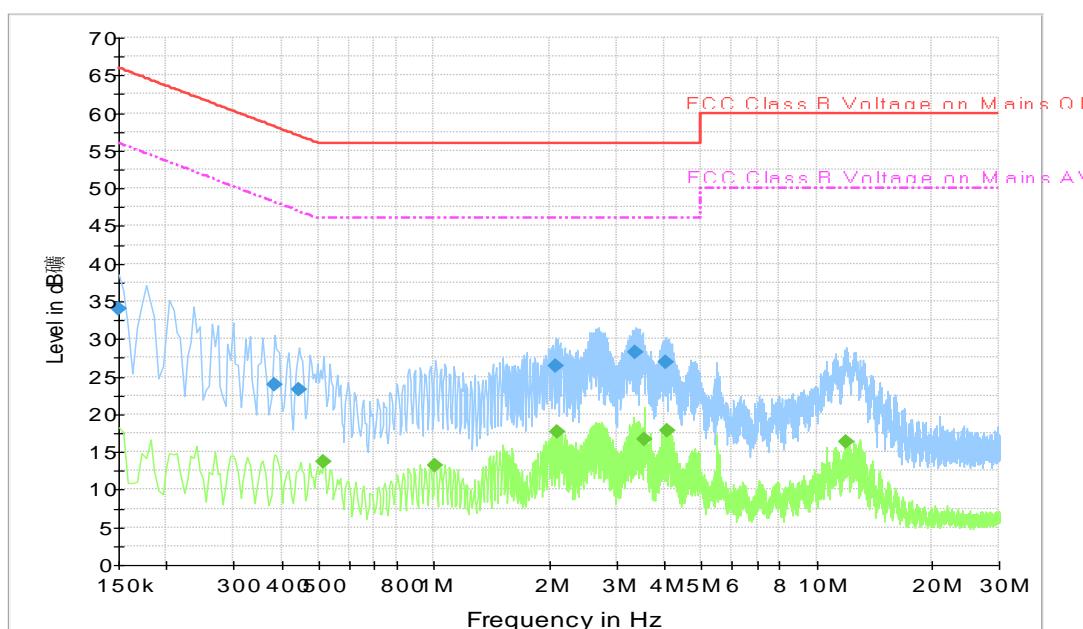


Fig. 203 AC Powerline Conducted Emission-802.11a EUT43(M2001J1G)+AE11+AE13+AE16

Measurement Result 1:

Frequency (MHz)	QuasiPeak (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.150000	34.0	L1	20.2	32.0	66.0
0.384000	23.9	L1	19.8	34.3	58.2
0.442500	23.3	L1	19.8	33.7	57.0
2.076000	26.4	L1	19.8	29.6	56.0
3.354000	28.2	L1	19.8	27.8	56.0
4.033500	26.9	L1	19.8	29.1	56.0

Measurement Result 2:

Frequency (MHz)	Average (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.514500	13.7	L1	19.8	32.3	46.0
1.009500	13.3	N	19.9	32.7	46.0
2.107500	17.6	L1	19.8	28.4	46.0
3.561000	16.7	L1	19.8	29.3	46.0
4.065000	17.8	L1	19.8	28.2	46.0
11.931000	16.3	L1	19.8	33.7	50.0

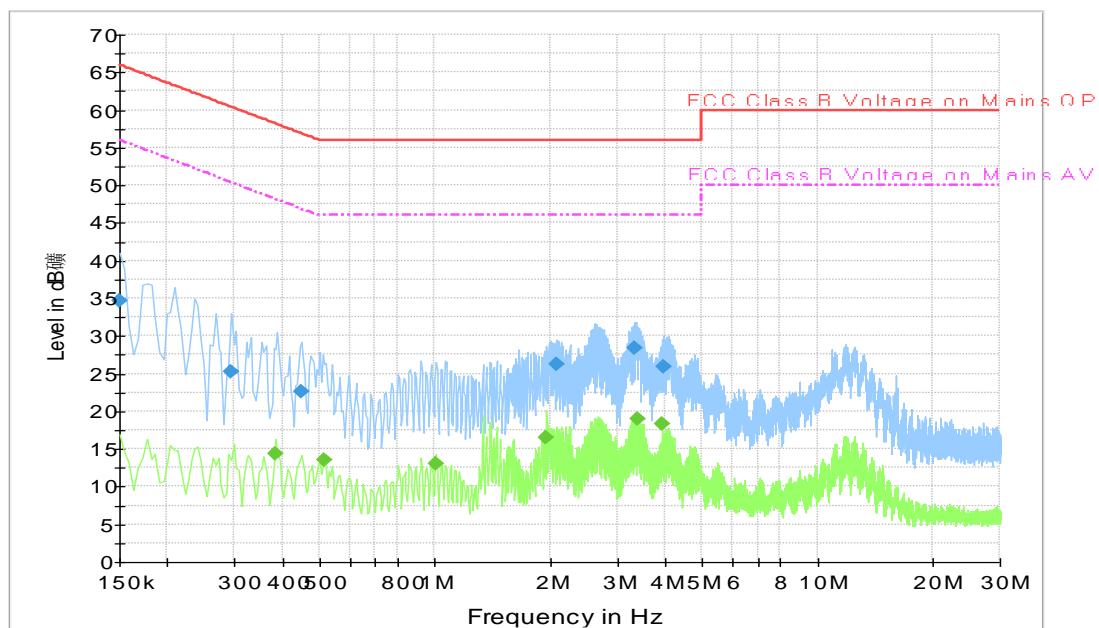


Fig. 204 AC Powerline Conducted Emission-Idle EUT43(M2001J1G)+AE11+AE13+AE16

Measurement Result 1:

Frequency (MHz)	QuasiPeak (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.150000	34.6	L1	20.2	31.4	66.0
0.294000	25.3	L1	19.8	35.1	60.4
0.447000	22.6	L1	19.8	34.3	56.9
2.076000	26.3	L1	19.8	29.7	56.0
3.322500	28.3	L1	19.8	27.7	56.0
3.948000	25.9	L1	19.8	30.1	56.0

Measurement Result 2:

Frequency (MHz)	Average (dB μ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.384000	14.3	L1	19.8	33.9	48.2
0.514500	13.5	L1	19.8	32.5	46.0
1.005000	13.0	N	19.9	33.0	46.0
1.959000	16.6	L1	19.8	29.4	46.0
3.381000	19.1	L1	19.8	26.9	46.0
3.916500	18.4	L1	19.8	27.6	46.0

ANNEX B: Accreditation Certificate

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 600118-0

Telecommunication Technology Labs, CAICT

Beijing
China

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Electromagnetic Compatibility & Telecommunications

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2019-09-26 through 2020-09-30

Effective Dates



For the National Voluntary Laboratory Accreditation Program



*** END OF REPORT BODY ***