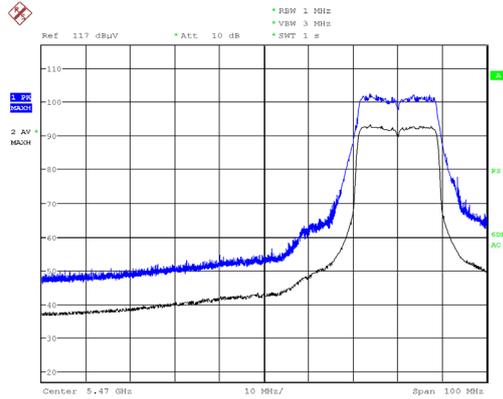## [802.11ac (VHT20)/ 5500 MHz]
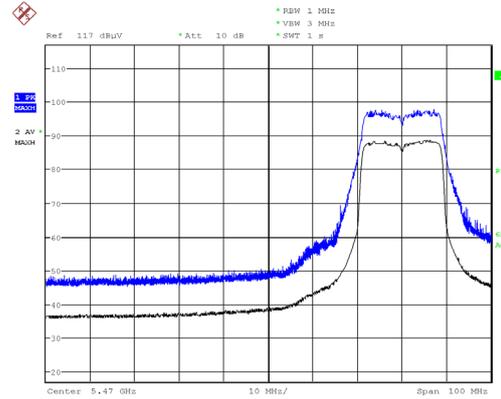
Horizontal

Date: 13.JUN.2019 02:22:29

Vertical

Date: 13.JUN.2019 02:28:27

[802.11ac (VHT20)/ 5700 MHz]

Horizontal

Date: 13.JUN.2019 02:56:15

Vertical
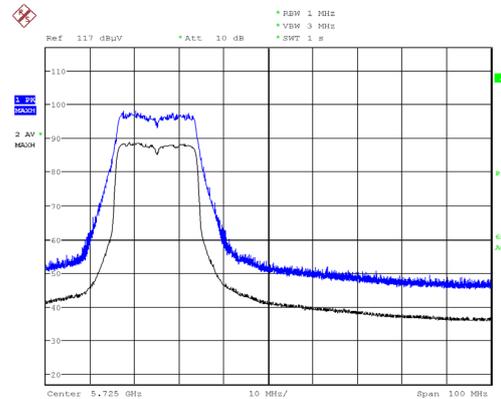
Date: 13.JUN.2019 02:52:13

[802.11ac (VHT20)/ 5745 MHz]

Horizontal

Date: 13.JUN.2019 12:33:54

Vertical

Date: 13.JUN.2019 12:38:13

[802.11ac (VHT20)/ 5825 MHz]
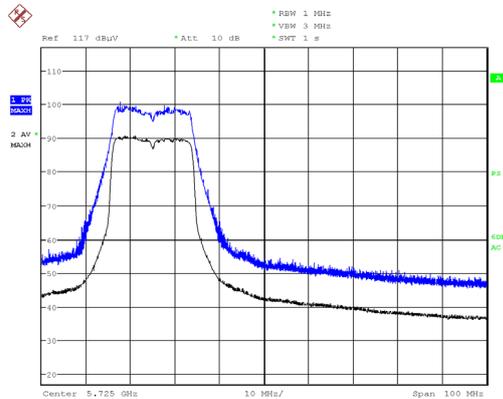
Horizontal

Date: 13.JUN.2019 16:22:42

Vertical

Date: 13.JUN.2019 16:16:09

[802.11n (HT40)/ 5190 MHz]

Horizontal

Date: 11.JUN.2019 21:11:02

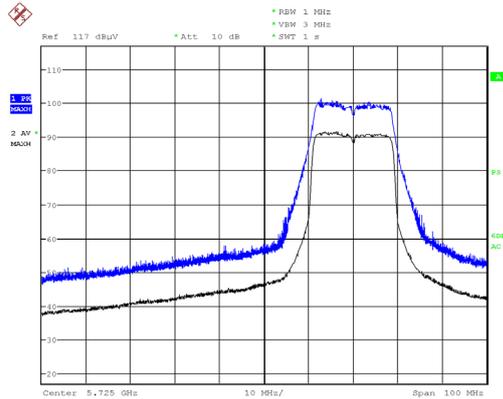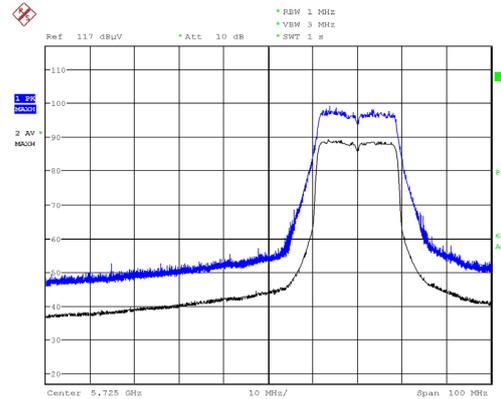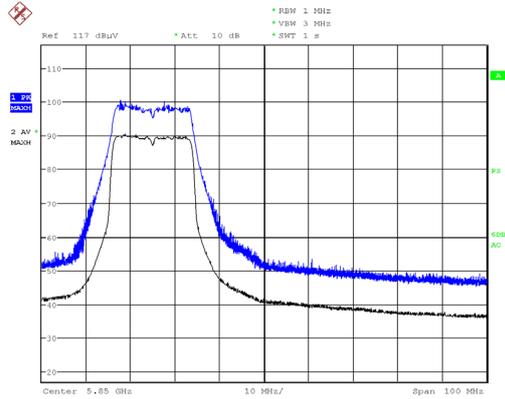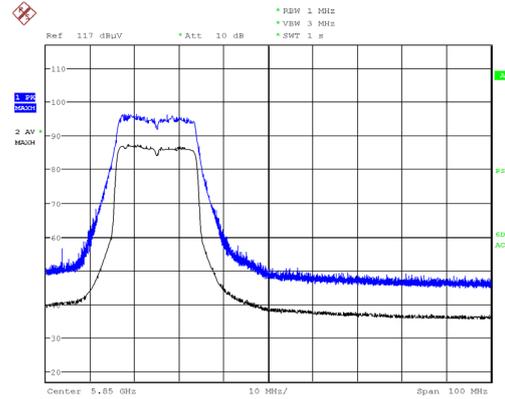Vertical

Date: 11.JUN.2019 21:00:18

[802.11n (HT40)/ 5310 MHz]

Horizontal

Date: 12.JUN.2019 02:25:43

Vertical

Date: 12.JUN.2019 02:18:13

[802.11n (HT40)/ 5510 MHz]

Horizontal

Date: 11.JUN.2019 16:15:09

Vertical

Date: 11.JUN.2019 16:20:35

[802.11n (HT40)/ 5670 MHz]

Horizontal

Date: 13.JUN.2019 01:57:59

Vertical

Date: 13.JUN.2019 01:52:04

[802.11n (HT40)/ 5755 MHz]

Horizontal

Date: 13.JUN.2019 14:44:23

Vertical
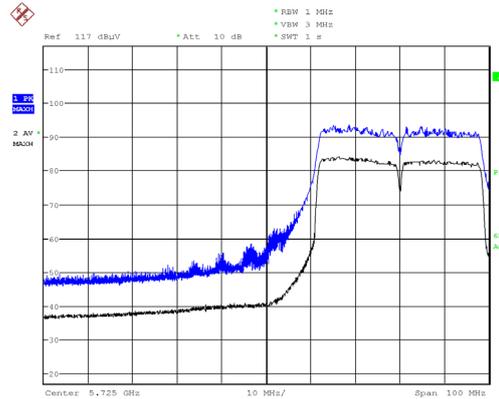
Date: 13.JUN.2019 14:48:47

[802.11n (HT40)/ 5795 MHz]

Horizontal
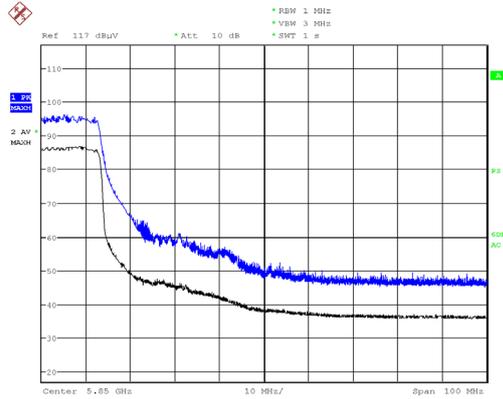
Date: 13.JUN.2019 15:18:41

Vertical
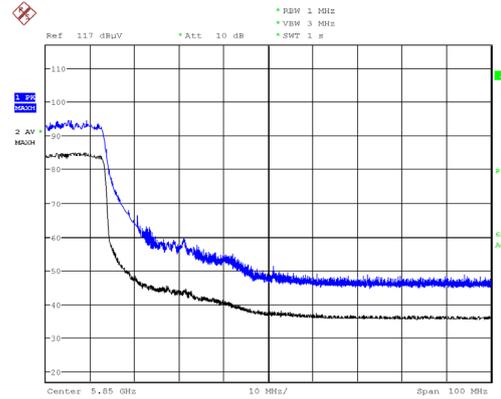
Date: 13.JUN.2019 15:13:15

[802.11ac (VHT40)/ 5190 MHz]

Horizontal
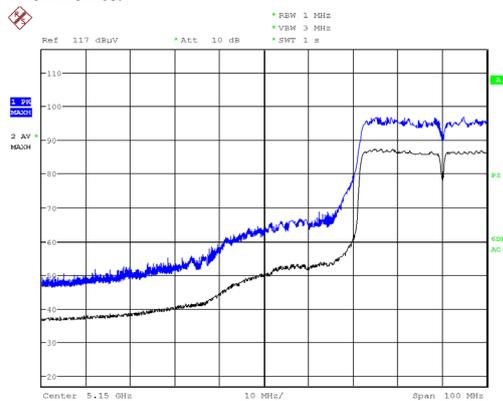
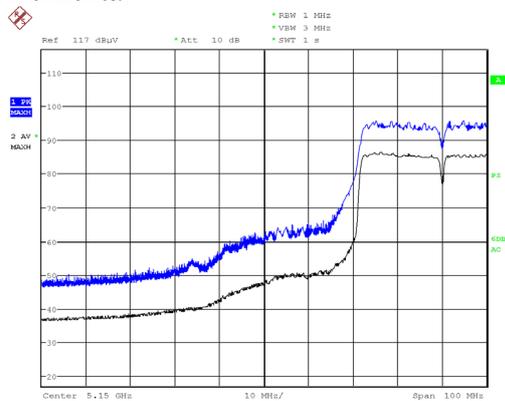Date: 12.JUN.2019 18:20:47

Vertical
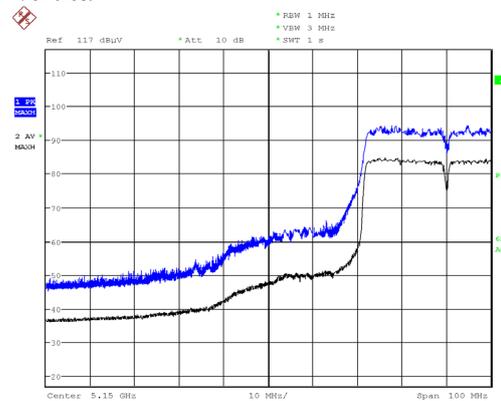
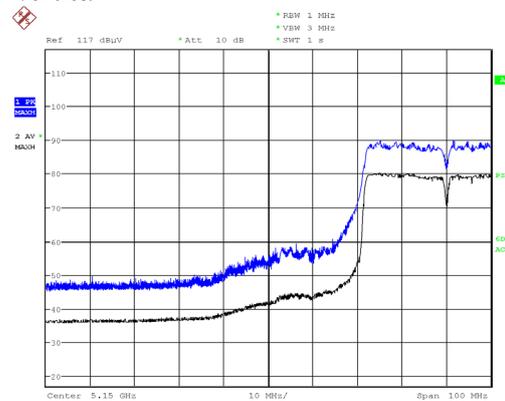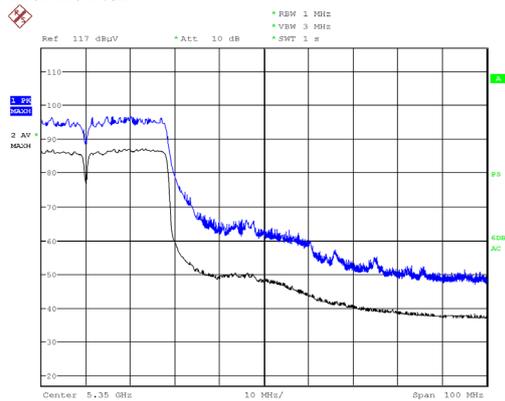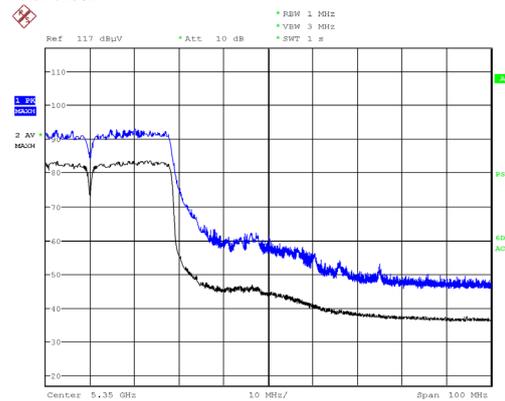Date: 12.JUN.2019 18:11:01

[802.11ac (VHT40)/ 5310 MHz]

Horizontal
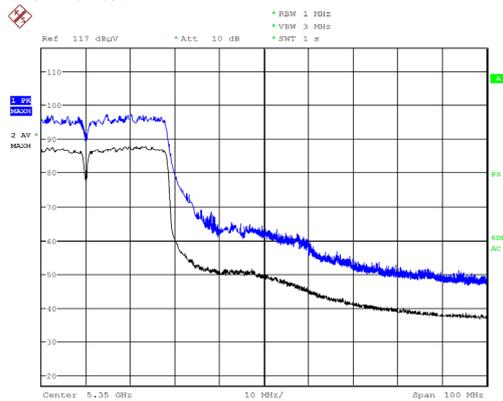
Date: 12.JUN.2019 21:20:03

Vertical
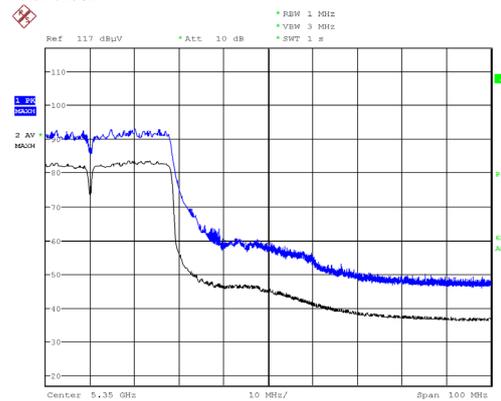
Date: 12.JUN.2019 21:09:05

[802.11ac (VHT40)/ 5510 MHz]

Horizontal
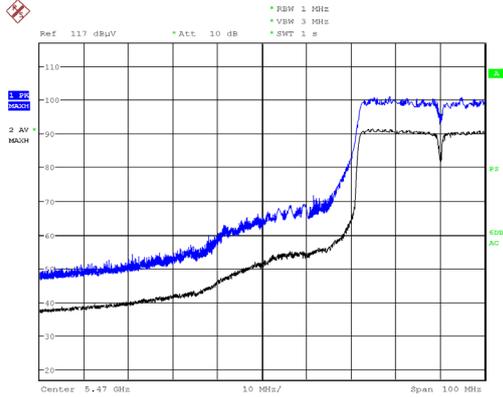
Date: 11.JUN.2019 17:16:24

Vertical
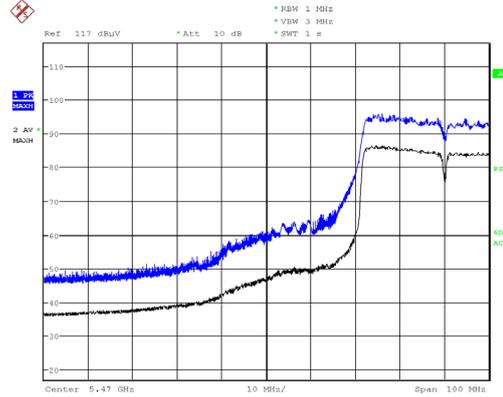
Date: 11.JUN.2019 17:12:02

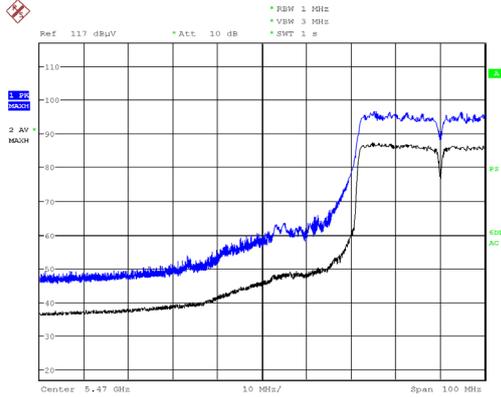[802.11ac (VHT40)/ 5670 MHz]

Horizontal
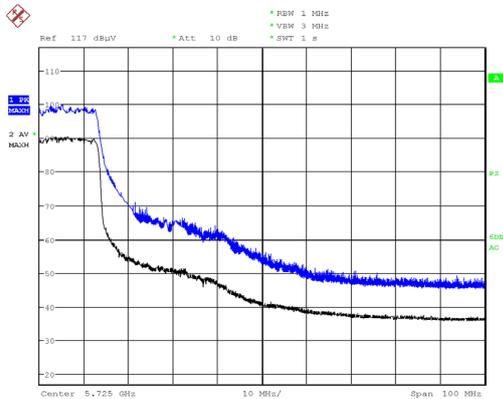
Date: 13.JUN.2019 03:18:38

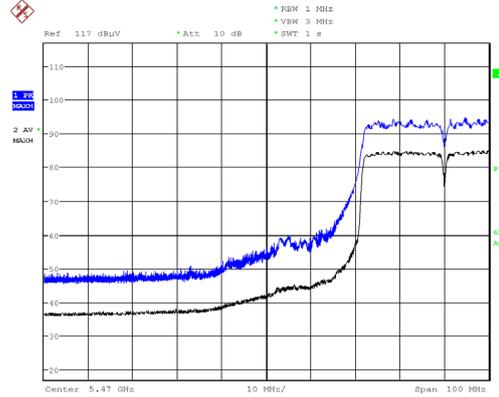Vertical

Date: 13.JUN.2019 03:22:04

[802.11ac (VHT40)/ 5755 MHz]

Horizontal
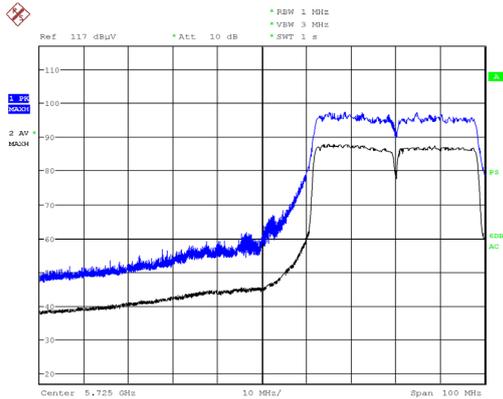
Date: 13.JUN.2019 13:06:53

Vertical
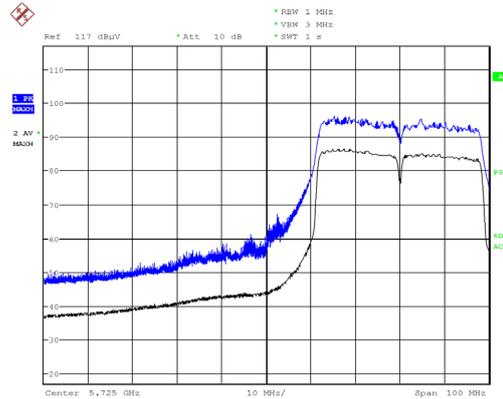
Date: 13.JUN.2019 12:59:25

[802.11ac (VHT40)/ 5795 MHz]

Horizontal
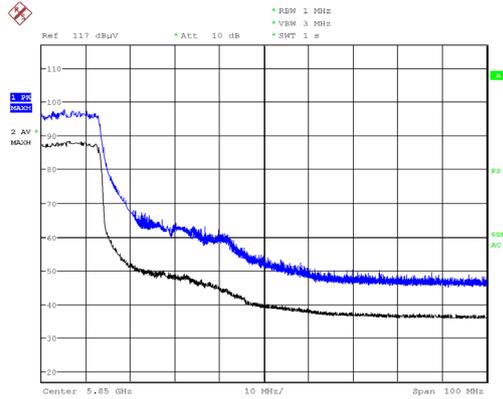
Date: 13.JUN.2019 15:49:20

Vertical
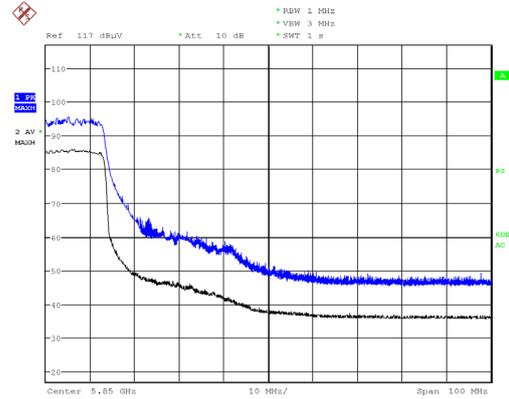
Date: 13.JUN.2019 15:53:40

[802.11ac (VHT80)/ 5210 MHz]

Horizontal
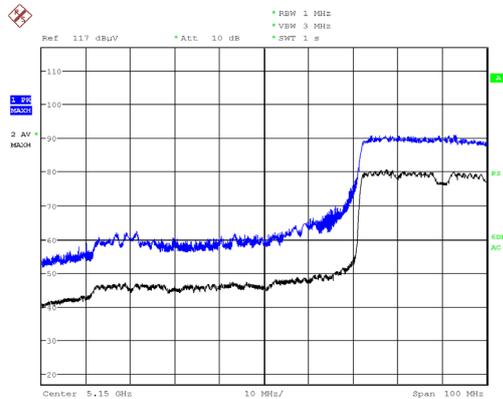
Date: 11.JUN.2019 22:32:49

Vertical
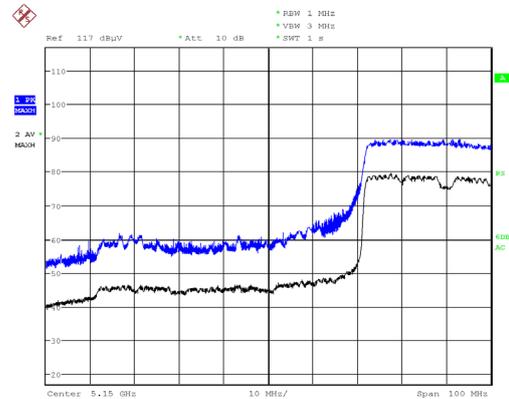
Date: 11.JUN.2019 22:25:27

[802.11ac (VHT80)/ 5290 MHz]

Horizontal
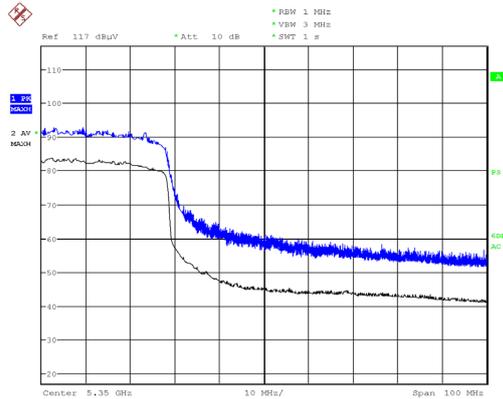
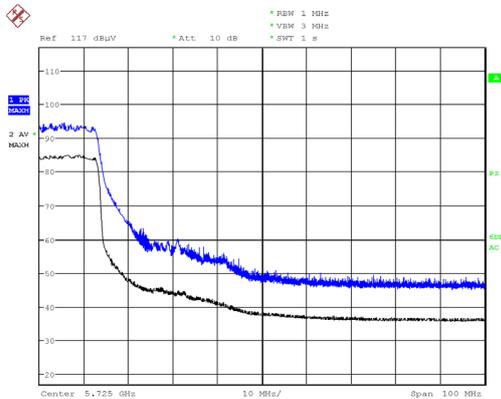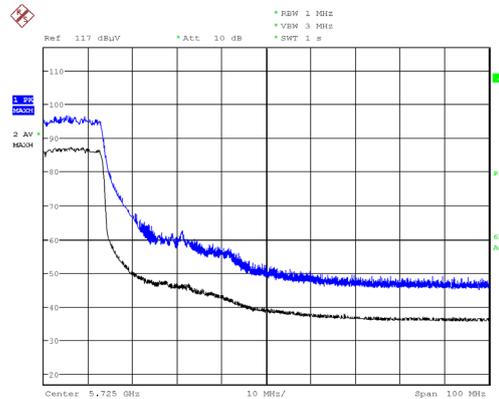Date: 11.JUN.2019 22:00:02

Vertical
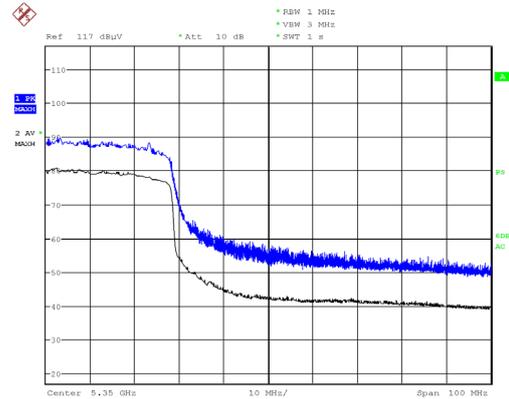
Date: 11.JUN.2019 21:53:08

[802.11ac (VHT80)/ 5530 MHz]

Horizontal
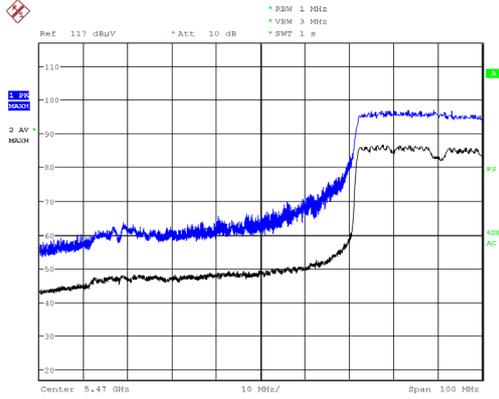
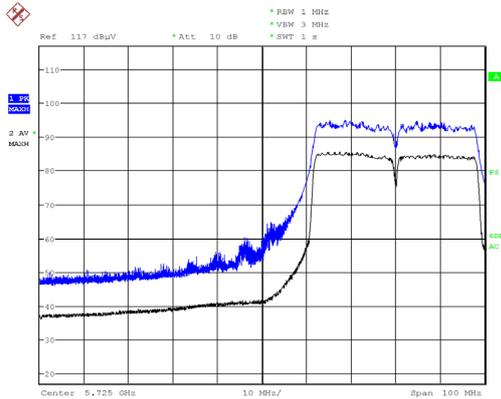Date: 11.JUN.2019 17:45:37

Vertical
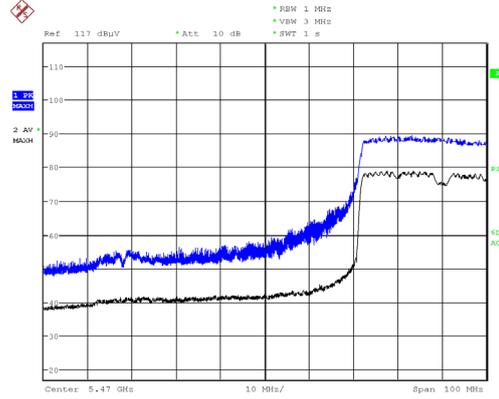
Date: 11.JUN.2019 17:50:48

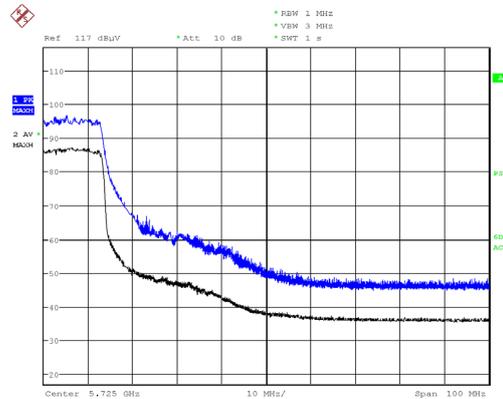[802.11ac (VHT80)/ 5775 MHz]

Horizontal
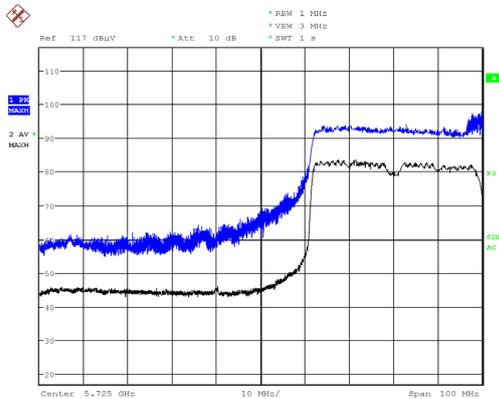
Date: 12.JUN.2019 16:46:14

Vertical
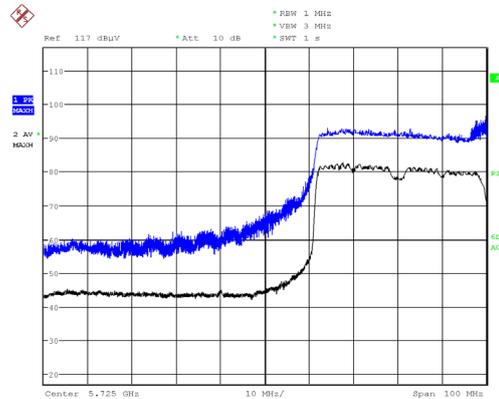
Date: 12.JUN.2019 16:42:31
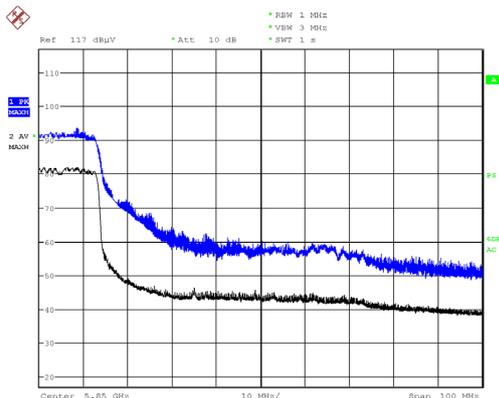
Date: 12.JUN.2019 16:47:22
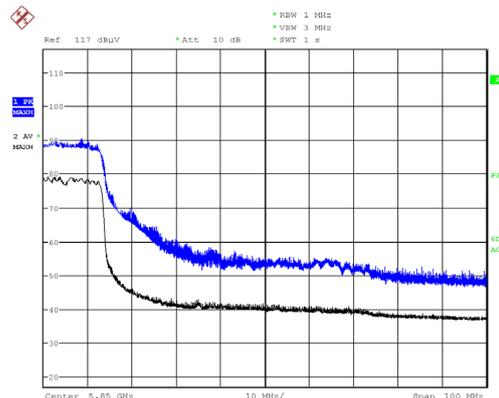
Date: 12.JUN.2019 16:44:05

4. Method of Calculation

4.1. AC Power-line Conducted Emissions

Method of calculation　　　　　　　: Software
Software Name　　　　　　　　　　: EP5/ CE
Software Version　　　　　　　　　: Ver5.0.0

Test Result [dBuV] = Meter Reading [dBuV] + C.F. [dB]

Note　(a)　Meter Reading　　　　　　: Reading of the EMI test receiver.
　　　(b)　C.F.　　　　　　　　　　: System Loss + Correction Factor of LISN

4.2. Maximum Conducted Output Power

Method of calculation　　　　　　　: Software
Software Name　　　　　　　　　　: SW-0304
Software Version　　　　　　　　　: Ver.3

Conducted Output Power Result [dBm] = Meter Reading [dBm] + C.F. [dB] + Duty Factor [dB]
EIRP Result [dBm] = Conducted Output Power Result [dBm] + Ant. Gain [dBi]

Note　(a)　Meter Reading　　　　　　: Reading of the power meter
　　　(b)　C.F.　　　　　　　　　　: System Cable Loss + EUT Cable Loss
　　　(c)　Duty Factor　　　　　　　: 10log {(Tx ON Time + Tx OFF Time) / (Tx ON Time)}

4.3. Maximum Power Spectral Density

Method of calculation　　　　　　　: Software
Software Name　　　　　　　　　　: SW-0304
Software Version　　　　　　　　　: Ver.3

Power Spectral Density Result [dBm] = Meter Reading [dBm] + C.F. [dB] + RBW Factor [dB]
Power Spectral Density (EIRP) Result [dBm] = Power Spectral Density Result [dBm] + Ant. Gain [dBi]

Note　(a)　Meter Reading　　　　　　: Reading of the spectrum analyzer
　　　(b)　C.F.　　　　　　　　　　: System Cable Loss + EUT Cable Loss
　　　(c)　RBW Factor　　　　　　　: 10log (1 [MHz] / RBW)

4.4.   Unwanted Emissions

Method of calculation   : Software
Software Name   : V-Scan
Software Version   : Ver.4.0.30

Test Result [dBuV/ m] = Meter Reading [dBuV] + C.F. [dB/ m]

Note   (a)   Meter Reading   : Reading of the EMI test receiver or spectrum analyzer.
       (b)   C.F.   : ☒ Antenna Factor (including Balun Loss) + System GainLoss
                                              : ☐ Antenna Factor (including Balun Loss) + System GainLoss + 20 log (3 m/ 10 m)

5. List of Test Equipment

All test results are traceable to the national and/ or international standards.

5.1. AC Power-line Conducted Emissions

	Ctrl.#	Equipment	Model No.	Serial No.	Manufacturer	Cal.Interval	Last Cal.
x	CS0015	EMC-CE Cable System 1	-	-	-	12 months	18.11.04
x	M0663	6dB Attenuator	6806.01A	-	HUBER+SUHNER	12 months	18.11.04
x	M0569	HIGH FREQUENCY FUSE	MP612A	-	Anritsu	12 months	18.11.04
x	M0130	RF Selector	NS4902SR	109001	Toyo Corporation	12 months	18.11.04
x	M0605	LISN/AMN	ENV216	101305	Rohde & Schwarz	12 months	18.10.01
x	M5062	Scientific Ambient Monitor	0560 6220	39515563/802	testo	12 months	18.07.17
x	M0515	EMI Receiver	ESCI	100606	Rohde & Schwarz	12 months	18.10.01
x	M5080	Temperature Meter	608-H2	41476135	testo	12 months	18.10.18

5.2. Antenna-port Conducted Measurements

	Ctrl.#	Equipment	Model No.	Serial No.	Manufacturer	Cal.Interval	Last Cal.
-	W0140	Spectrum Analyzer	FSU26	200717	Rohde & Schwarz	12 months	18.09.01
x	W0100	Spectrum Analyzer	MS2692A	6201338954	Anritsu	12 months	19.05.19
	W0101	Signal Analyzer	MS2692A	6201338955	Anritsu	12 months	19.05.19
x	W0110	10dB Attenuator	6610-SK-50-1	0002	Huber + Suhner	12 months	18.09.01
x	W0006	Power Meter	N1911A	MY50000295	Agilent Technologies	12 months	18.10.06
x	W0007	Power Sensor	N1922A	MY50180022	Agilent Technologies	12 months	18.10.06
x	W0029	10dB Attenuator	8493C	76549	Agilent Technologies	12 months	18.09.01
-	WC0002	RF Cable	SUCOFLEX 102	34124/2	HUBER + SUHNER	12 months	18.09.01
-	WC0003	RF Cable	SUCOFLEX 102	34127/2	HUBER + SUHNER	12 months	18.09.01
x	WC0004	RF Cable	SUCOFLEX 102	34288/2	HUBER + SUHNER	12 months	18.09.01
x	WC0005	RF Cable	SUCOFLEX 102	34287/2	HUBER + SUHNER	12 months	18.09.01
-	WC0006	RF Cable	SUCOFLEX 102	34289/2	HUBER + SUHNER	12 months	18.09.01
-	WC0007	RF Cable	SUCOFLEX 102	34286/2	HUBER + SUHNER	12 months	18.09.01
x	M0720	Thermometer	TH-321	140036	AS ONE	12 months	18.07.20

5.3. Unwanted Emissions

	Ctrl.#	Equipment	Model No.	Serial No.	Manufacturer	Cal.Interval	Last Cal.
x	M0970	EMI Receiver	ESCI	100511	Rohde & Schwarz	12 months	19.03.19
x	M0504	EMI Receiver	ESU40	100086	Rohde & Schwarz	12 months	18.11.19
x	A0073	Loop Antenna	HFH2-Z2	100171	Rohde & Schwarz	12 months	18.12.10
x	A0043	Biconical Antenna	BBA9106	V5(91032598)	Schwarzbeck	12 months	18.12.03
x	A0046	Log periodic Antenna	UHALP9108A1	0830	Schwarzbeck	12 months	18.12.03
x	A0056	Horn Antenna	BBHA9120D	670	Schwarzbeck	12 months	19.06.01
x	A0057	Horn Antenna	HAP06-18W	00000037	Toyo Corporation	12 months	19.06.01
x	A0058	Horn Antenna	HAP18-26W	00000016	Toyo Corporation	12 months	18.06.01
x	A0060	Horn Antenna	HAP26-40W	00000009	Toyo Corporation	12 months	18.06.01
-	CS0037	Fourth Site RE Cable SYS1	-	-	-	12 months	19.06.01
x	CS0039	Fourth Site RE Cable SYS3	-	-	-	12 months	19.06.01
x	CS0054	Fourth Site EMF Cable SYS	-	-	-	12 months	19.06.01
x	M1055	GHz Filter Box	WSF-109	17111786	Wakoh	12 months	19.06.01
x	M0510	RF Selector	NS4900	0802-226	Toyo Corporation	12 months	19.06.01
x	M0620	RF Pre-Amp	8447D	2944A10720	Agilent	12 months	19.06.01
x	M0706	3dB Attenuator	8491A	MY39267782	Agilent	12 months	19.06.01
x	M5151	Temperature Meter	608-H2	41475968	testo	12 months	18.11.08
x	M5061	Scientific Ambient Monitor	0560 6220	39515471/801	testo	12 months	18.07.17

About calibration interval

　　　　Valid until the end of the month listed in "Cal. Int." column.