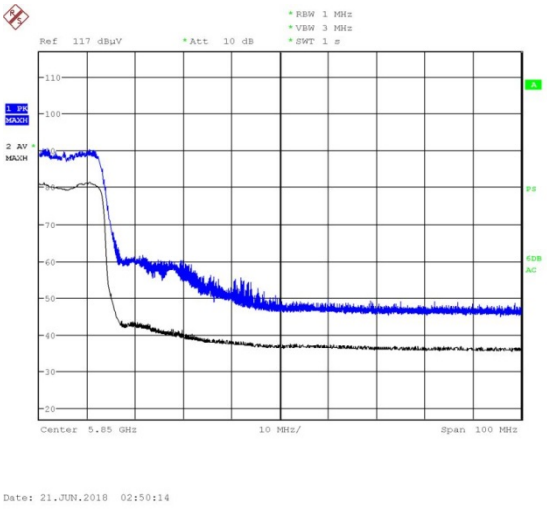
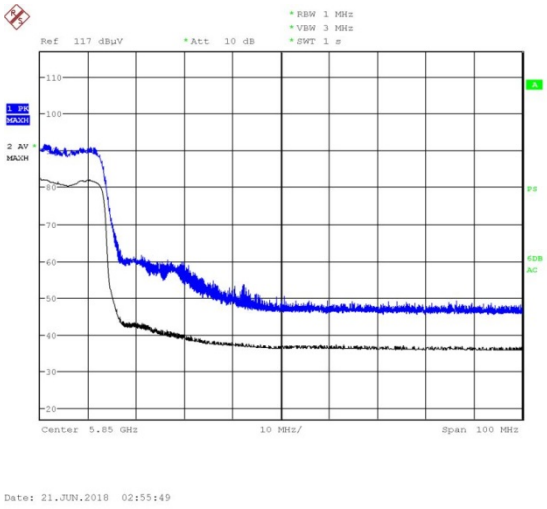
[802.11ac (VHT40)/ 5795 MHz]

Horizontal

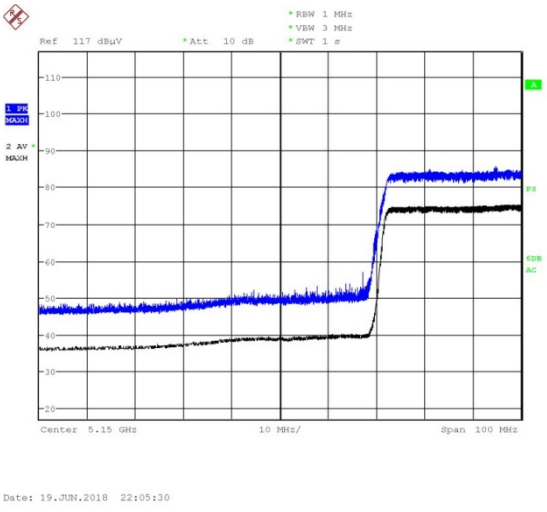


Vertical

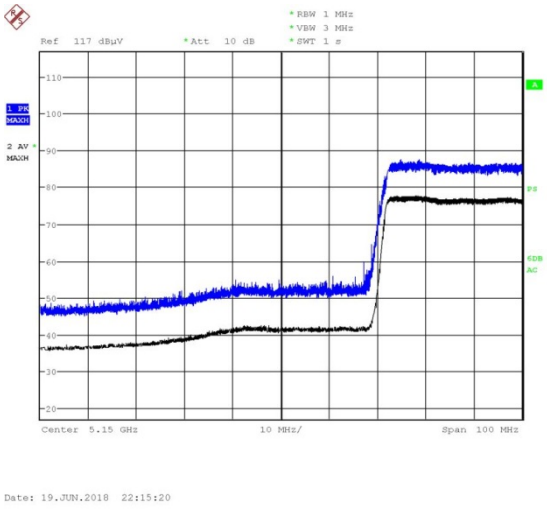


[802.11ac (VHT80)/ 5210 MHz]

Horizontal

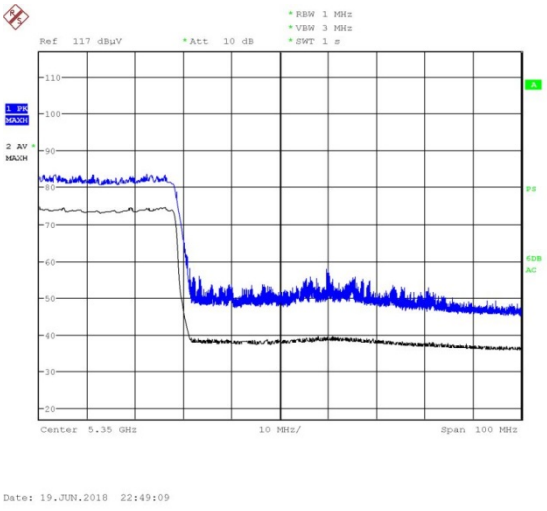


Vertical

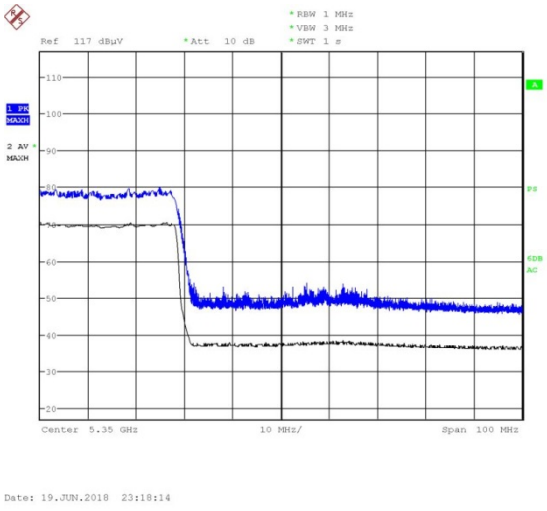


[802.11ac (VHT80)/ 5290 MHz]

Horizontal

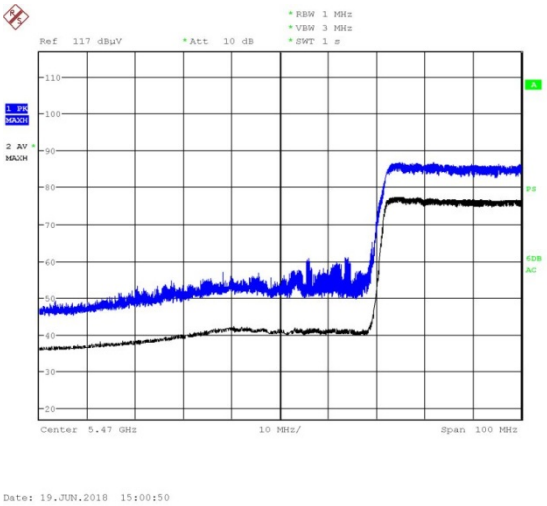


Vertical



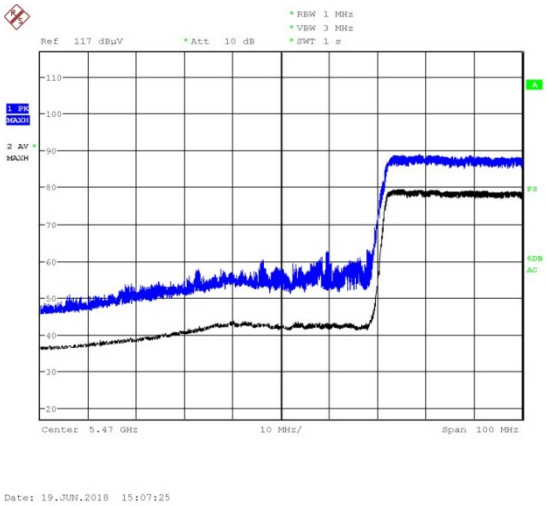
[802.11ac (VHT80)/ 5530 MHz]

Horizontal



Date: 19.JUN.2018 15:00:50

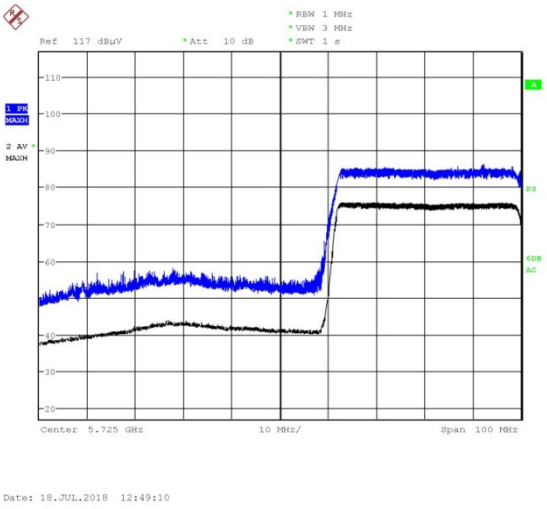
Vertical



Date: 19.JUN.2018 15:07:25

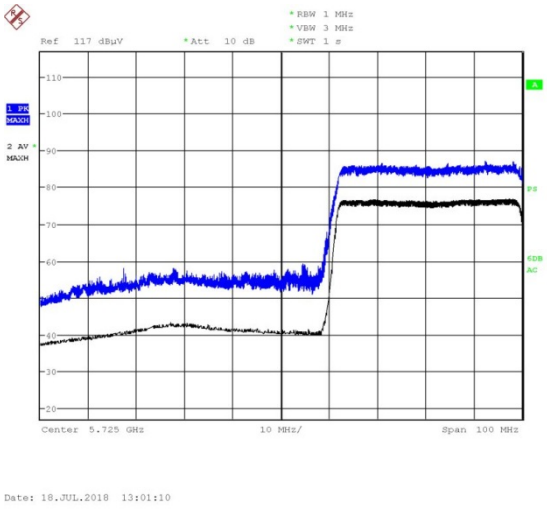
[802.11ac (VHT80)/ 5775 MHz]

Horizontal

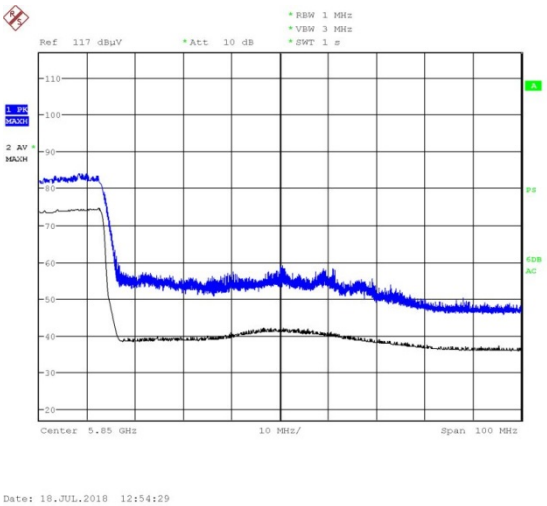


Date: 18.JUL.2018 12:49:10

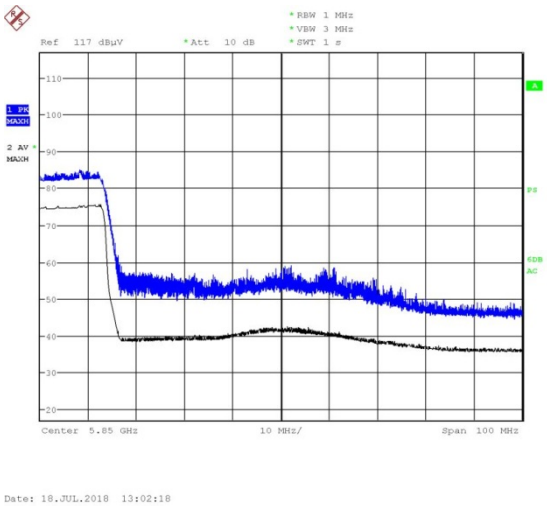
Vertical



Date: 18.JUL.2018 13:01:10



Date: 18.JUL.2018 12:54:29



Date: 18.JUL.2018 13:02:18

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-304
Software Version : Ver.2.0

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-304
Software Version : Ver.2.0

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	-	Shield Room	-	-	TDK	-	-
x	M0575	EMI Receiver	ESCI	100161	Rohde & Schwarz	12 months	18.04.18
x	CS0043	4th Site CE Cable SYSTEM	-	-	EMC/RF Test Lab.	12 months	18.06.01
x	M0664	6dB Attenuator	6806.01A	N/A	HUBER+SUHNER AG	12 months	18.06.01
x	M0619	HIGH FREQUENCY FUSE	MP612A	N/A	Anritsu	12 months	18.06.01
x	M0514	LISN	ENV216	100424	Rohde & Schwarz	12 months	18.04.17
x	M0505	LISN	ENV216	100425	Rohde & Schwarz	12 months	18.04.17
-	M2289	LISN	KNW-407	8-1182-12	Kyoritsu	12 months	18.04.23
-	M2290	LISN	KNW-242C	8-1183-1	Kyoritsu	12 months	18.04.23
x	M0153	50 ohm Terminator	CT-01	N/A	TME	12 months	18.04.17
-	M0597	50 ohm Terminator	CT-01	N/A	TME	12 months	17.12.04
-	M2292	50 ohm Terminator	T1302	N/A	Stack	12 months	18.04.23
-	M2293	50 ohm Terminator	T1302	N/A	Stack	12 months	18.04.23
x	M0690	Thermometer	AD-5640A	201304	AND	12 months	17.11.14

5.2. Antenna-port Conducted Measurements

	Ctrl.#	Equipment	Model No.	Serial No.	Manufacturer	Cal.Interval	Last Cal.
x	-	Shield Room	B83117-B2432-T161	P26428	Albatross Project	-	-
-	W0140	Spectrum Analyzer	FSU26	200717	Rohde & Schwarz	12 months	17.08.25
x	W0100	Spectrum Analyzer	MS2692A	6201338954	Anritsu	12 months	18.04.24
x	W0006	Power Meter	N1911A	MY50000295	Keysight Technologies	12 months	17.10.10
x	W0007	Power Sensor	N1922A	MY50180022	Keysight Technologies	12 months	17.10.10
x	W0029	10dB Attenuator	8493C	76549	Keysight Technologies	12 months	17.08.01
-	WC0002	RF Cable	SUCOFLEX 102	34124/2	HUBER + SUHNER	12 months	17.08.03
x	WC0003	RF Cable	SUCOFLEX 102	34127/2	HUBER + SUHNER	12 months	17.08.03
-	WC0004	RF Cable	SUCOFLEX 102	34288/2	HUBER + SUHNER	12 months	17.08.03
-	WC0005	RF Cable	SUCOFLEX 102	34287/2	HUBER + SUHNER	12 months	17.08.03
-	WC0006	RF Cable	SUCOFLEX 102	34289/2	HUBER + SUHNER	12 months	17.08.03
-	WC0007	RF Cable	SUCOFLEX 102	34286/2	HUBER + SUHNER	12 months	17.08.03
x	M0719	Thermometer	TH-321	140016	AS ONE	12 months	18.04.11
x	M0720	Thermometer	TH-321	140036	AS ONE	12 months	17.06.09

5.3. Unwanted Emissions

	Ctrl.#	Equipment	Model No.	Serial No.	Manufacturer	Cal.Interval	Last Cal.
x	M0506	EMC Chamber	None	-	TDK	12 months	17.07.10
x	M0515	EMI Receiver	ESCI	100606	Rohde&Schwarz	12 months	17.09.29
x	M0504	EMI Receiver	ESU40	100086	Rohde&Schwarz	12 months	17.11.02
x	A0073	Loop Antenna	HFH2-Z2	100171	Rohde&Schwarz	12 months	17.11.01
x	A0043	Biconical Antenna	BBA9106	V5(91032598)	Schwarzbeck	12 months	17.12.15
x	A0046	Log periodic Antenna	UHALP9108A1	0830	Schwarzbeck	12 months	17.12.15
x	A0056	Horn Antenna	BBHA9120D	670	Schwarzbeck	12 months	18.06.01
x	A0057	Horn Antenna	HAP06-18W	00000037	TOYO Corporation	12 months	18.06.01
x	A0058	Horn Antenna	HAP18-26W	00000016	TOYO Corporation	12 months	17.12.01
x	A0060	Horn Antenna	HAP26-40W	00000009	TOYO Corporation	12 months	17.12.01
-	CS0037	Fourth Site RE Cable SYS1	-	-	EMC/RF Test Lab.	12 months	18.06.01
x-	CS0039	Fourth Site RE Cable SYS3	-	-	EMC/RF Test Lab.	12 months	18.06.01
x	CS0054	Fourth Site EMF Cable SYS	-	-	EMC/RF Test Lab.	12 months	18.06.01
x	M1055	GHz Filter Box	WSF-109	17111786	Wakoh	12 months	18.06.01
x	M0510	RF Selector	NS4900	0802-226	TOYO Corporation	12 months	18.06.01
x	M0620	RF Pre-Amp	8447D	2944A10720	Keysight Technologies	12 months	18.06.01
x	M0706	3dB Attenuator	8491A	MY39267782	Keysight Technologies	12 months	18.06.01
x	M0689	Thermometer	AD-5640A	201303	AND	12 months	17.11.14

About calibration interval

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