

TEST REPORT

Applicant:	Juniper Systems, Inc.
Address:	1132 W 1700 N Logan, UT 84321 USA

Manufacturer or Supplier:	Juniper Systems, Inc.
Address:	1132 W 1700 N Logan, UT 84321 USA
Product:	Archer4
Brand Name:	Juniper Systems
Model Name:	AR4
FCC ID:	VSFAR4
Date of tests:	Jan. 05, 2024 ~ May. 15, 2024

The tests have been carried out according to the requirements of the following standard:

☒ **FCC Part 15, Subpart E, Section 15.407**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Hanwen Xu Engineer / Mobile Department	Approved by Peibo Sun Manager / Mobile Department
Date: May. 15, 2024	Date: May. 15, 2024

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Test Report No.: W7L-231218W001RF04

RELEASE CONTROL RECORD

Issue No.	Description	Date Issued
W7L-231218W001RF04	Original release	May. 15, 2024

1 SUMMARY OF TEST RESULTS

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Test Lab
15.407(b)(9)	AC Power Conducted Emissions	Compliance	A
15.407(b)(6) (9)	Radiated Emissions	Compliance	A
15.407(b)(7)	In-Band Emission (Mask)	Compliance	A
15.407(a)(11)	Emission Bandwidth Measurement	Compliance	A
15.407(a)(7) (8)	Maximum Power Spectral Density	Compliance	A
15.407 (d)(6)	Contention-based Protocol.	Compliance	B
15.407(a)(7) (8)	RF Output Power	Compliance	A
15.407(d)(5)	Operational restrictions for 6 GHz U-NII devices	Declaration by applicant	A
15.203	Antenna Requirement	Compliance	A

Note:

1. Except the data of RSE and Band Edge Measurement, other data please refer to Appendix D.
2. 802.11ax support full RU tone and partial RU tone, both full RU and partial RU-left (for low CH) and RU-mid (for mid CH) and partial RU-Right (for high CH) are tested for conducted power/PSD/In-Band Emission,all the other test case were performed with full RU with its maximum power/PSD.
3. Preliminary Investigation scans were completed to compare Full RU Tone modes and Single User Tone modes. It was found that SU modes were the worst case over Full RU-Tone mode in every instance, and the physical waveforms of SU mode and FULL RU-Tone are the same, and both FULL RU-Tone mode have lower power than SU mode. Therefore, only SU mode was report as it is representative of Full RU-Tone worst case scenario.
4. WIFI-6e supports SISO&MIMO mode,the whole testing has assessed the MIMO mode by referring to their maximum conducted power. and the 802.11ax HE40/80/160MHz RU26T/52T/106T/242T modes are cover by the 11ax HE20MHz modes, the 802.11ax HE80/160MHz RU484T modes are cover by the 11ax HE40MHz modes, the 802.11ax HE160MHz RU996T modes are cover by the 11ax HE80MHz modes.
5. The EUT supports both LPI and SP, and the LPI power settings are the same as SP, so all tests are done with LPI Mode as the LPI limits are more stringent.
6. The EUT not supports channel puncturing or any bandwidth reduction techniques.
7. Only the worse data was reported.



Test Report No.: W7L-231218W001RF04

***Test Lab Information Reference**

Lab A:

BV 7Layers Communications Technology (Shenzhen) Co., Ltd

Lab Address:

Room B37, Warehouse A5, No.3 Chiwan 4th Road, Zhaoshang Street, Nanshan District Shenzhen, Guangdong, People's Republic of China

Accredited Test Lab Cert 3939.01

The FCC Site Registration No. : 525120; Designation No. : CN1171;

Lab B:

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zhuyi Road, High-tech District, Suzhou City, Anhui Province

Accredited Test Lab Cert 6613.01

The FCC Site Registration No. is 434559; The Designation No. is CN1325.

1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~150KHz	± 2.87
	150KHz ~ 30MHz	± 3.36
Radiated emissions	9KHz ~ 30MHz	2.80dB
	30MHz ~ 1GMHz	4.65dB
	1GHz ~ 18GHz	5.01dB
	18GHz ~ 40GHz	4.10dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

1.2 MODIFICATION RECORD

There were no modifications required for compliance.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Archer4
BRAND	Juniper Systems
MODEL NAME	AR4
NOMINAL VOLTAGE	12Vdc(adapter or host equipment) 3.8Vdc (Li-ion, battery)
MODULATION TYPE	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA
MODULATION TECHNOLOGY	OFDM, OFDMA
TRANSFER RATE	802.11ax: up to 2402.0Mbps
OPERATING FREQUENCY	Under control by Standard Power AP: 5.935 GHz ~ 6.415 GHz 6.535 GHz ~ 6.855 GHz Under control by Low-power Indoor AP: 5.935 GHz ~ 6.415 GHz 6.425 GHz ~ 6.525 GHz 6.535 GHz ~ 6.855 GHz 6.875 GHz ~ 7.115 GHz
NUMBER OF CHANNEL	802.11ax (HE20): 60 802.11ax (HE40): 29 802.11ax (HE80): 14 802.11ax (HE160): 7
OUTPUT EIRP POWER	13.51dB/ 22.44mW for 5935 ~ 6415MHz 9.63dB/ 9.19mW for 6435 ~ 6525MHz 9.47dB/ 8.85mW for 6525 ~ 6875MHz 13.32dB/ 21.48mW for 6875 ~ 7115MHz
ANTENNA TYPE	ANT 6: PIFA Antenna with -1.64 dBi For 5935 ~ 6415MHz PIFA Antenna with -5.07 dBi For 6435 ~ 6525MHz PIFA Antenna with -6.92 dBi For 6525 ~ 6875MHz PIFA Antenna with -6.26 dBi For 6875 ~ 7115MHz ANT 8: PIFA Antenna with -0.55 dBi For 5935 ~ 6415MHz PIFA Antenna with -1.44 dBi For 6435 ~ 6525MHz PIFA Antenna with -1.77 dBi For 6525 ~ 6875MHz PIFA Antenna with -2.93 dBi For 6875 ~ 7115MHz
HW VERSION	DVT2
SW VERSION	JH_U_000.00.040.00_USERDEBUG_PCAT
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	USB cable: with shielded cable, w/o ferrite core, 1.0 meter

NOTE:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.



3. The EUT incorporates a MIMO function. Physically, the EUT provides 2 completed transmitters and 2 receivers.

Modulation Mode	TX Function
802.11ax (HE20)	2TX
802.11ax (HE40)	2TX
802.11ax (HE80)	2TX
802.11ax (HE160)	2TX

4. WLAN 2.4GHz & WLAN 5GHz technology cannot transmit at the same time.

5. List of Accessory:

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
AC Adapter	Juniper	SHENZHEN MERRYKING ELECTRONICS CO.,LTD.	MK-PQ181EX	I/P: 100-240Vac, 0.5A, O/P: 12.0Vdc, 1.5A
Battery 1	CHOLIPOW	SHENZHEN CHOLIPOWER TECHNOLOGY CO.,LTD	CLP983	Capacity: 3.8Vdc, 4500mAh
Battery 2	CHOLIPOW	SHENZHEN CHOLIPOWER TECHNOLOGY CO.,LTD	CLP984	Capacity: 3.8Vdc, 8300mAh
Battery 3	GUANGWEI	SHENZHEN GUANGWEI ELECTRONIC TECHNOLOGY CO.,LTD	GW300	Capacity: 3.7Vdc, 300mAh
USB Cable	Keli	KELI TECHNOLOGY DEVELOPMENT CO.,LTD	KLC-5243	Signal Line,1.0meter
LCD Panel	KOTL	JIN LONG MACHINERY&ELECTRONICS (Hangzhou) CO., LTD.	304-T0662A-001-A2	6.26inch TFT, 1080(H)*2280(V) resolution

2.2 DESCRIPTION OF TEST MODES

U-NII-5 band: Under control of a Low-power Indoor AP and Standard Power AP

25 channels are provided for 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
2	5935 MHz	1	5955 MHz	5	5975 MHz	9	5995 MHz
13	6015 MHz	17	6035 MHz	21	6055 MHz	25	6075 MHz
29	6095 MHz	33	6115 MHz	37	6135 MHz	41	6155 MHz
45	6175 MHz	49	6195 MHz	53	6215 MHz	57	6235 MHz
61	6255 MHz	65	6275 MHz	69	6295 MHz	73	6315 MHz
77	6335 MHz	81	6355 MHz	85	6375 MHz	89	6395 MHz
93	6415 MHz						

12 channels are provided for 802.11ax (HE40):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	5965 MHz	11	6005 MHz	19	6045 MHz	27	6085 MHz
35	6125 MHz	43	6165 MHz	51	6205 MHz	59	6245 MHz
67	6285 MHz	75	6325 MHz	83	6365 MHz	91	6405 MHz

6 channel is provided for 802.11ax (HE80):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
7	5985 MHz	23	6065 MHz	39	6145 MHz	55	6225 MHz
71	6305 MHz	87	6385 MHz				

3 channel is provided for 802.11ax (HE160):

Channel	Frequency	Channel	Frequency	Channel	Frequency
15	6025 MHz	47	6185 MHz	79	6345 MHz

U-NII-6 band: Under control of a Low-power Indoor AP

5 channels are provided for 802.11a, 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
97	6435 MHz	101	6455 MHz	105	6475 MHz	109	6495 MHz
113	6515 MHz						

3 channels are provided for 802.11ax (HE40):

Channel	Frequency	Channel	Frequency	Channel	Frequency
99	6445 MHz	107	6485 MHz	*115	6525 MHz

2 channel are provided for 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
103	6465 MHz	*119	6545 MHz

1 channel are provided for 802.11ax (HE160):

Channel	Frequency
*111	6465 MHz

U-NII-7 band: Under control of a Low-power Indoor AP and Standard Power AP

18 channels are provided for 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
117	6535 MHz	121	6555 MHz	125	6575 MHz	129	6595 MHz
133	6615 MHz	137	6635 MHz	141	6655 MHz	145	6675 MHz
149	6695 MHz	153	6715 MHz	157	6735 MHz	161	6755 MHz
165	6775 MHz	169	6795 MHz	173	6815 MHz	177	6835 MHz
181	6855 MHz	*185	6875 MHz				

9 channels are provided for 802.11ax (HE40):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
123	6565 MHz	131	6605 MHz	139	6645 MHz	147	6685 MHz
155	6725 MHz	163	6765 MHz	171	6805 MHz	179	6845 MHz
*187	6885 MHz						

4 channels are provided for 802.11ax (HE80):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
135	6625 MHz	151	6705 MHz	167	6785 MHz	*183	6865 MHz

2 channels are provided for 802.11ax (HE160):

Channel	Frequency	Channel	Frequency
143	6665 MHz	*175	6825 MHz

U-NII-8 band: Under control of a Low-power Indoor AP

12 channels are provided for 802.11a, 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
189	6895 MHz	193	6915 MHz	197	6935 MHz	201	6955 MHz
205	6975 MHz	209	6995 MHz	213	7015 MHz	217	7035 MHz
221	7055 MHz	225	7075 MHz	229	7095 MHz	233	7115 MHz

5 channels are provided for 802.11ax (HE40):

Channel	Frequency	Channel	Frequency	Channel	Frequency
195	6925 MHz	203	6965 MHz	211	7005 MHz
219	7045 MHz	227	7085 MHz		

2 channel is provided for 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
199	6945 MHz	215	7025 MHz

1 channel is provided for 802.11ax (HE160):

Channel	Frequency
207	6985 MHz

Note: * mean this's straddle channel and operating under control by Low-power indoor AP only.

2.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO						DESCRIPTION
	RE≥1G	RE<1G	IBE	PLC	CBP	APCM	
A	√	√	√	√	√	√	Powered by Adapter/Battery
B	√	√	-	-	-	-	Powered by Notebook

Where **RE≥1G**: Radiated Emission above 1GHz

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

IBE: In-Band Emission (MASK)

CBP:Contention Based Protocol

Note:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on Z-plane (for mode A).
2. "-": Means no effect.

Radiated Emission Measurement (Above 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQUENCY BAND (MHZ)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE PARAMETER
A,B	802.11ax (HE20)	5935-6415	1 to 93	2, 1, 45, 93	OFDM	BPSK	MCS0
		6435-6525	97 to 113	97, 105, 113	OFDM	BPSK	MCS0
		6525-6855	117 to 185	117, 153, 181, 185	OFDM	BPSK	MCS0
		6875-7115	185 to 233	189, 209, 229, 233	OFDM	BPSK	MCS0
A,B	802.11ax (HE40)	5955-6415	3 to 91	3, 43, 91	OFDM	BPSK	MCS0
		6435-6525	99 to 115	99, 107, 115	OFDM	BPSK	MCS0
		6525-6855	115 to 187	123, 147, 179, 187	OFDM	BPSK	MCS0
		6875-7115	187 to 227	195, 203, 227	OFDM	BPSK	MCS0
A,B	802.11ax (HE80)	5955-6415	7 to 87	7, 39, 87	OFDM	BPSK	MCS0
		6435-6525	103 to 119	103, 119	OFDM	BPSK	MCS0
		6525-6855	119 to 183	135, 151, 167, 183	OFDM	BPSK	MCS0
		6875-7115	183 to 215	199, 215	OFDM	BPSK	MCS0
A,B	802.11ax (HE160)	5955-6415	15 to 79	15, 47, 79	OFDM	BPSK	MCS0
		6435-6525	111	111	OFDM	BPSK	MCS0
		6525-6855	143 to 175	143, 175	OFDM	BPSK	MCS0
		6875-7115	175 to 207	207	OFDM	BPSK	MCS0
A,B	802.11ax (20MHz RU 26/52/106)	5935-6415	1 to 93	2, 1, 45, 93	OFDMA	BPSK	MCS0
		6435-6525	97 to 113	97, 105, 113	OFDMA	BPSK	MCS0
		6525-6855	117 to 185	117, 153, 181, 185	OFDMA	BPSK	MCS0
		6875-7115	185 to 233	189, 209, 229, 233	OFDMA	BPSK	MCS0

Radiated Emission Measurement (Below 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQUENCY BAND (MHZ)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE PARAMETER
A,B	802.11ax (HE20)	5935-6415	1 to 93	2	OFDM	BPSK	MCS0

In-Band Emission (MASK) Measurement:

EUT CONFIGURE MODE	MODE	FREQUENCY BAND (MHZ)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE PARAMETER
A	802.11ax (HE20)	5955-6415	1 to 93	2, 1, 45, 93	OFDM	BPSK	MCS0
		6435-6525	97 to 113	97, 105, 113	OFDM	BPSK	MCS0
		6525-6855	117 to 185	117, 153, 181, 185	OFDM	BPSK	MCS0
		6875-7115	185 to 233	189, 209, 229, 233	OFDM	BPSK	MCS0
A	802.11ax (HE40)	5955-6415	3 to 91	3, 43, 91	OFDM	BPSK	MCS0
		6435-6525	99 to 115	99, 107, 115	OFDM	BPSK	MCS0
		6525-6855	115 to 187	123, 147, 179, 187	OFDM	BPSK	MCS0
		6875-7115	187 to 227	195, 203, 227	OFDM	BPSK	MCS0
A	802.11ax (HE80)	5955-6415	7 to 87	7, 39, 87	OFDM	BPSK	MCS0
		6435-6525	103 to 119	103, 119	OFDM	BPSK	MCS0
		6525-6855	119 to 183	135, 151, 167, 183	OFDM	BPSK	MCS0
		6875-7115	183 to 215	199, 215	OFDM	BPSK	MCS0
A	802.11ax (HE160)	5955-6415	15 to 79	15, 47, 79	OFDM	BPSK	MCS0
		6435-6525	111	111	OFDM	BPSK	MCS0
		6525-6855	143 to 175	143, 175	OFDM	BPSK	MCS0
		6875-7115	175 to 207	207	OFDM	BPSK	MCS0
A	802.11ax (20MHz RU 26/52/106)	5935-6415	1 to 93	2, 1, 45, 93	OFDMA	BPSK	MCS0
		6435-6525	97 to 113	97, 105, 113	OFDMA	BPSK	MCS0
		6525-6855	117 to 185	117, 153, 181, 185	OFDMA	BPSK	MCS0
		6875-7115	185 to 233	189, 209, 229, 233	OFDMA	BPSK	MCS0

Power Line Conducted Emission Measurement:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQUENCY BAND (MHZ)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE PARAMETER
A	802.11ax (HE20)	5935-6415	1 to 93	2	OFDM	BPSK	MCS0

Antenna Port Conducted Measurement:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQUENCY BAND (MHZ)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE PARAMETER
A	802.11ax (HE20)	5935-6415	1 to 93	2, 1, 45, 93	OFDM	BPSK	MCS0
		6435-6525	97 to 113	97, 105, 113	OFDM	BPSK	MCS0
		6525-6855	117 to 185	117, 153, 181, 185	OFDM	BPSK	MCS0
		6875-7115	185 to 233	189, 209, 229, 233	OFDM	BPSK	MCS0
A	802.11ax (HE40)	5955-6415	3 to 91	3, 43, 91	OFDM	BPSK	MCS0
		6435-6525	99 to 115	99, 107, 115	OFDM	BPSK	MCS0
		6525-6855	115 to 187	123, 147, 179, 187	OFDM	BPSK	MCS0
		6875-7115	187 to 227	195, 203, 227	OFDM	BPSK	MCS0
A	802.11ax (HE80)	5955-6415	7 to 87	7, 39, 87	OFDM	BPSK	MCS0
		6435-6525	103 to 119	103, 119	OFDM	BPSK	MCS0
		6525-6855	119 to 183	135, 151, 167, 183	OFDM	BPSK	MCS0
		6875-7115	183 to 215	199, 215	OFDM	BPSK	MCS0
A	802.11ax (HE160)	5955-6415	15 to 79	15, 47, 79	OFDM	BPSK	MCS0
		6435-6525	111	111	OFDM	BPSK	MCS0
		6525-6855	143 to 175	143, 175	OFDM	BPSK	MCS0
		6875-7115	175 to 207	207	OFDM	BPSK	MCS0
A	802.11ax (20MHz RU 26/52/106)	5935-6415	1 to 93	2, 1, 45, 93	OFDMA	BPSK	MCS0
		6435-6525	97 to 113	97, 105, 113	OFDMA	BPSK	MCS0
		6525-6855	117 to 185	117, 153, 181, 185	OFDMA	BPSK	MCS0
		6875-7115	185 to 233	189, 209, 229, 233	OFDMA	BPSK	MCS0

Contention Based Protocol Measurement:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQUENCY BAND (MHZ)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE PARAMETER
A	802.11ax (HE20)	5955-6415	1 to 93	53	OFDM	BPSK	MCS0
		6435-6525	97 to 113	101	OFDM	BPSK	MCS0
		6525-6855	117 to 185	149	OFDM	BPSK	MCS0
		6875-7115	185 to 233	197	OFDM	BPSK	MCS0
A	802.11ax (HE160)	5955-6415	15 to 79	47	OFDM	BPSK	MCS0
		6435-6525	111	111	OFDM	BPSK	MCS0
		6525-6855	143 to 175	175	OFDM	BPSK	MCS0
		6875-7115	175 to 207	207	OFDM	BPSK	MCS0



TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
RE $\geq$ 1G	23 deg. C, 69% RH	DC 12.0V By Adapter	James Fu
RE<1G	23 deg. C, 69% RH	DC 12.0V By Adapter	James Fu
PLC	23 deg. C, 69% RH	DC 12.0V By Adapter	David Yuan
APCM	25 deg. C, 60% RH	DC 3.8V By Battery	David Yuan

2.3 DUTY CYCLE OF TEST SIGNAL

Please Refer to Appendix D Of this test report.

2.4 DESCRIPTION OF SUPPORT UNITS

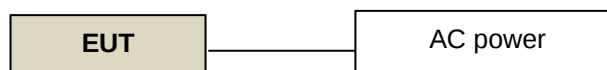
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Desktop	Lenovo	M73 SFF	PC04GRQV	N/A
2	Desktop	Lenovo	M73 SFF	PC06CS27	N/A
3	Laptop	Lenovo	Thinkpad L440	R90FTFKN	N/A
4	Router	ASUS	GT-AXE11000	M9IG04X400984RVB	N/A

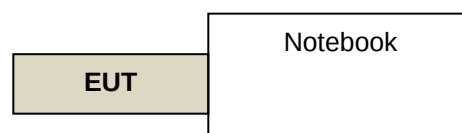
NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Line: Unshielded, Detachable 1.5m
2	AC Line: Unshielded, Detachable 1.5m
3	AC Line: Unshielded, Detachable 1.5m
4	AC Line: Unshielded, Detachable 1.5m

2.4.1 CONFIGURATION OF SYSTEM UNDER TEST

Mode A



Mode B



2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS AND REFERENCES

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

Test standard:

FCC Part 15, Subpart E (15.407)

ANSI C63.10:2020

All test items have been performed and recorded as per the above standards.

References Test Guidance:

KDB 987594 D02 EMC Measurement v01r01

KDB 789033 D02 General UNII Test Procedure New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

All test items have been performed as a reference to the above KDB test guidance.

3 TEST TYPES AND RESULTS

3.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

3.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

Frequencies (MHz)	EIRP Limit	Equivalent Field Strength at 3m
5925MHz > F > 7125MHz	Peak:-7 (dBm/MHz)	88.2(dBμV/m)
	Average: -27 (dBm/MHz)	68.2(dBμV/m)

Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000 \sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts).}$$

3.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	Nov. 14,23	Nov. 13,26
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Feb. 18,23	Feb. 17,24
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Feb. 17,24	Feb. 16,25
Horn Antenna	ETS-LINDGREN	3117	00168692	Feb. 18,23	Feb. 17,24
Horn Antenna	ETS-LINDGREN	3117	00168692	Feb. 17,24	Feb. 16,25
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Sep.03, 23	Sep.02, 24
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120-3	3.2.06	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	N/A	May. 06,23	May. 05,24
10dB Attenuator	JFW/USA	50HF-010-SMA	N/A	May. 05,24	May. 04,25
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Mar. 28,23	Mar. 27,24
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Mar. 27,24	Mar. 26,25
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May. 06,23	May. 05,24
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May. 05,24	May. 04,25
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.10,23	May.09,24
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.09,24	May.08,25
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 17,23	Feb. 16,24
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 16,24	Feb. 15,25
DC Source	Kikusui/JP	PMX18-5A	0000001	Aug. 11,23	Aug. 10,24
Power Meter	Anritsu	ML2495A	1506002	Feb. 14,23	Feb. 13,24
Power Meter	Anritsu	ML2495A	1506002	Feb. 13,24	Feb. 12,25
Power Sensor	Anritsu	MA2411B	1339352	Feb. 14,23	Feb. 13,24
Power Sensor	Anritsu	MA2411B	1339352	Feb. 13,24	Feb. 12,25
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.02,23	Sep.01,24

- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 2. The test was performed in 3m Chamber.
 3. The FCC Site Registration No. is 525120; The Designation No. is CN1171.

3.1.3 TEST PROCEDURES

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.

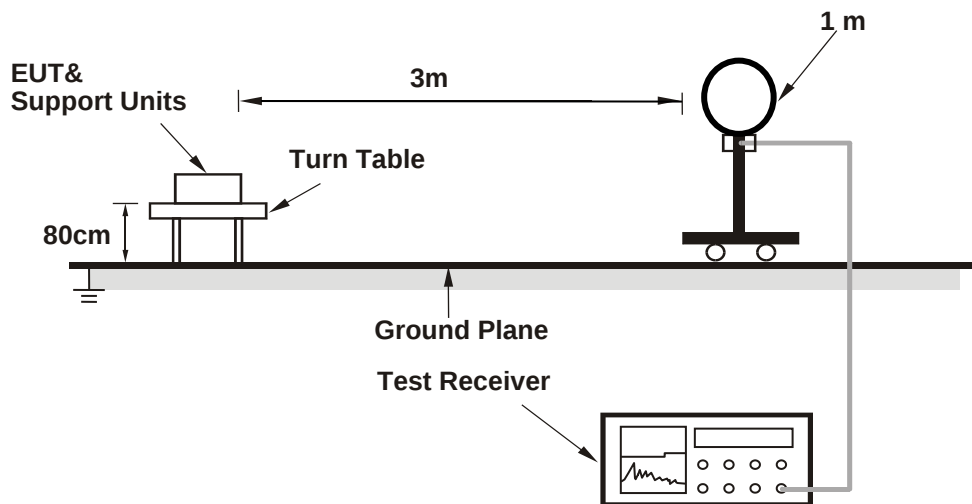
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
 Nss 1
 (802.11a: RBW = 1MHz, VBW = 1kHz; 802.11ax (HE20): RBW = 1MHz, VBW = 1kHz; 802.11ax (HE40): RBW = 1MHz, VBW = 1kHz; 802.11ax (HE80): RBW = 1MHz, VBW = 1kHz)
 Nss 2
 (802.11ax (HE20): RBW = 1MHz, VBW = 1kHz; 802.11ax (HE40): RBW = 1MHz, VBW = 1kHz; 802.11ax (HE80): RBW = 1MHz, VBW = 1kHz)
4. All modes of operation were investigated and the worst-case emissions are reported.

3.1.4 DEVIATION FROM TEST STANDARD

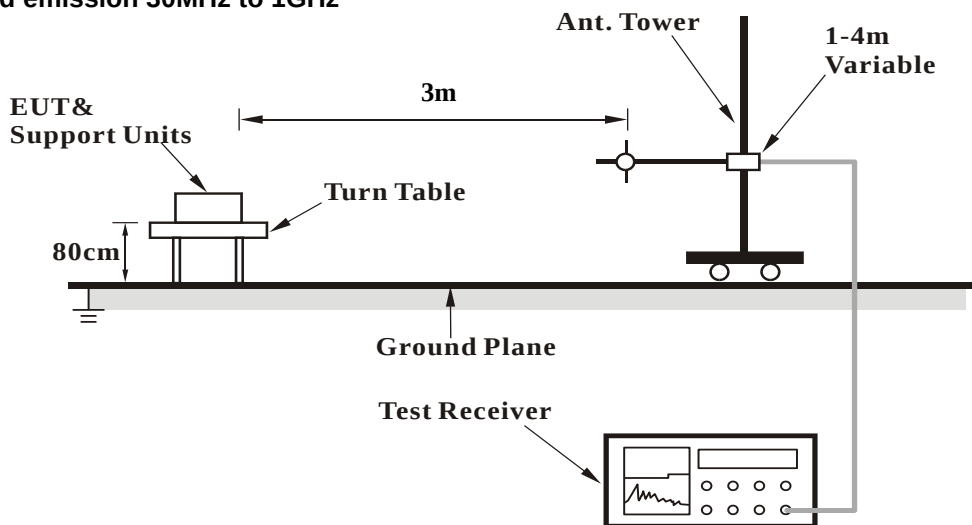
No deviation.

3.1.5 TEST SETUP

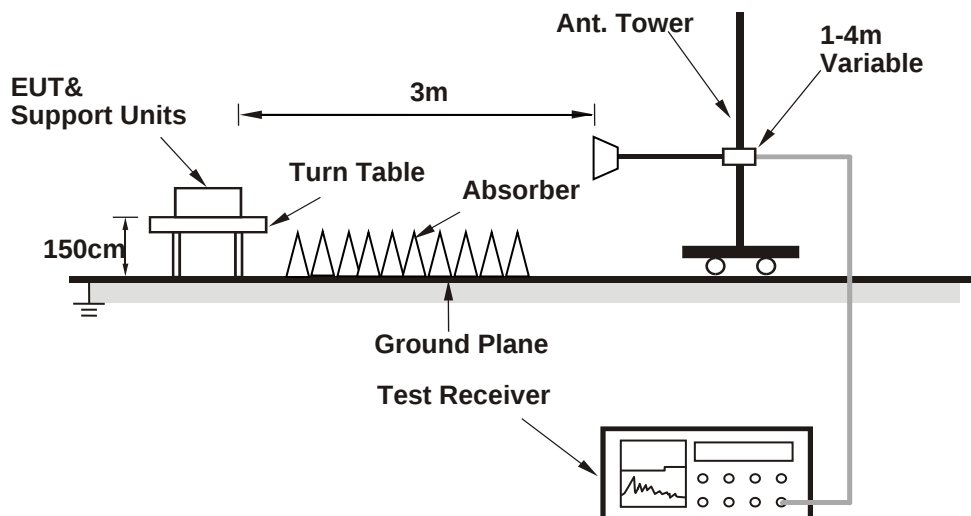
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.1.6 EUT OPERATING CONDITIONS

Mode A

- EUT connected to the Notebook through dock via USB cable.
- The EUT under transmission condition continuously at specific channel frequency.

Mode B

- EUT plugged into the Notebook.
- The EUT under transmission condition continuously at specific channel frequency.

3.1.7 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

30 MHz – 1GHz data:

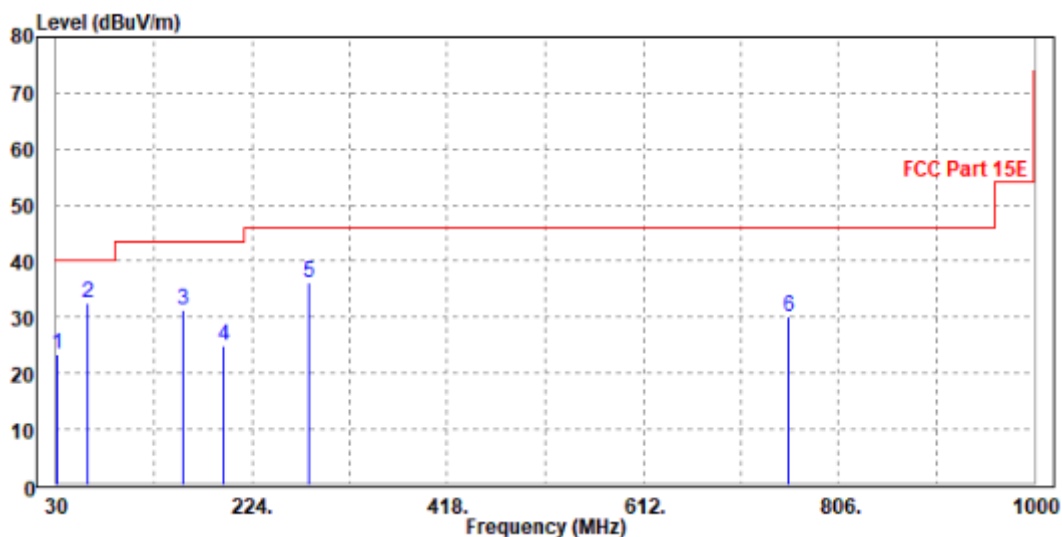
802.11ax (20MHz)

CHANNEL	TX Channel 2	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
30.97	23.4	34.66	40	-16.6	19.97	6.14	37.37	100	360	QP
61.04	32.5	56.12	40	-7.5	7.36	6.31	37.29	100	360	QP
155.13	31.42	50.05	43.5	-12.08	11.38	6.79	36.8	100	360	QP
196.84	24.91	43.95	43.5	-18.59	10.61	6.98	36.63	100	360	QP
280.26	36.15	51.49	46	-9.85	14.02	7.25	36.61	100	360	QP
756.53	30.02	35.78	46	-15.98	23.22	8.5	37.48	100	360	QP

REMARKS:

1. Emission level (dBuV/m) = Read level (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.



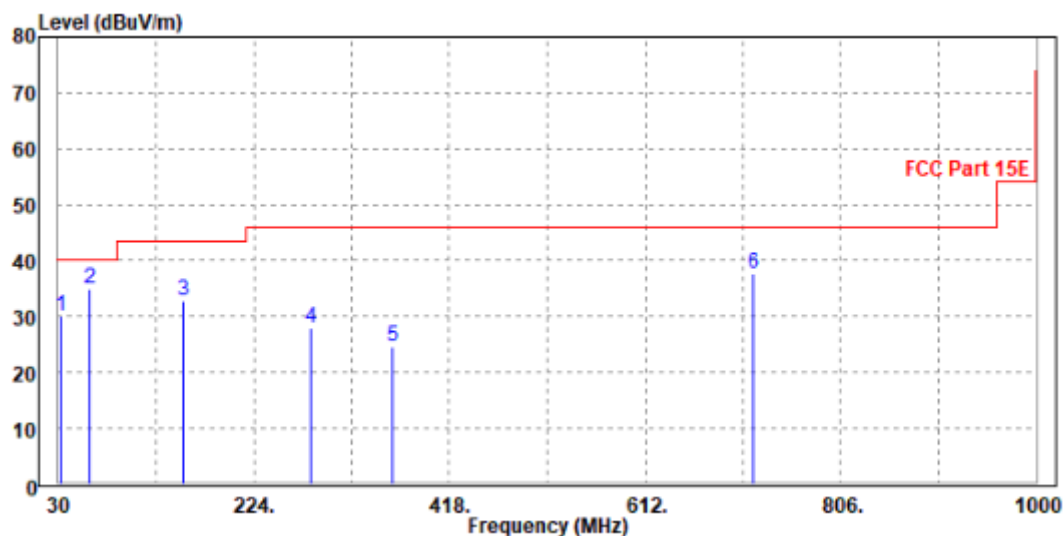


CHANNEL	Channel 2	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
31.94	30.25	41.8	40	-9.75	19.67	6.16	37.38	100	0	QP
62.01	34.9	58.23	40	-5.1	7.62	6.32	37.27	100	0	QP
154.16	32.73	49.93	43.5	-10.77	12.81	6.8	36.81	100	0	QP
281.23	28.08	43.06	46	-17.92	14.37	7.26	36.61	100	0	QP
361.74	24.61	37.44	46	-21.39	16.45	7.47	36.75	100	0	QP
718.7	37.73	43.52	46	-8.27	23.13	8.42	37.34	100	0	QP

REMARKS:

1. Emission level (dBuV/m) = Read level (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.





ABOVE 1GHz WORST-CASE DATA:

Note: For higher frequency, the emission is too low to be detected.

802.11ax (20MHz)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5925	55.22	55.07	88.2	-32.98	35.17	11.72	46.74	100	105	Peak
5925	46.34	46.19	68.2	-21.86	35.17	11.72	46.74	100	105	Average
5955	94.4	94.2	/	/	35.22	11.73	46.75	100	105	Peak
5955	85.53	85.33	/	/	35.22	11.73	46.75	100	105	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5925	53.79	53.43	88.2	-34.41	35.38	11.72	46.74	100	55	Peak
5925	46.66	46.3	68.2	-21.54	35.38	11.72	46.74	100	55	Average
5955	95.7	95.29	/	/	35.43	11.73	46.75	100	55	Peak
5955	86.59	86.18	/	/	35.43	11.73	46.75	100	55	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5955MHz: Fundamental frequency.



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VERITAS**

Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 2	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5925	74.02	73.87	88.2	-14.18	35.17	11.72	46.74	100	105	Peak
5925	64.71	64.56	68.2	-3.49	35.17	11.72	46.74	100	105	Average
5935	89.13	88.96	/	/	35.18	11.73	46.74	100	105	Peak
5935	80.94	80.77	/	/	35.18	11.73	46.74	100	105	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5925	75.39	75.03	88.2	-12.81	35.38	11.72	46.74	100	55	Peak
5925	64.7	64.34	68.2	-3.5	35.38	11.72	46.74	100	55	Average
5935	92.21	91.82	/	/	35.4	11.73	46.74	100	55	Peak
5935	80.52	80.13	/	/	35.4	11.73	46.74	100	55	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5935MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 229	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
7095	89.7	87.73	/	/	35.52	12.9	46.45	100	190	Peak
7095	79.37	77.4	/	/	35.52	12.9	46.45	100	190	Average
7125	54.07	52.03	88.2	-34.13	35.53	12.93	46.42	100	190	Peak
7125	47.09	45.05	68.2	-21.11	35.53	12.93	46.42	100	190	Average
7250	55.23	52.87	74	-18.77	35.55	13.09	46.28	100	190	Peak
7250	46.96	44.6	54	-7.04	35.55	13.09	46.28	100	190	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
7095	95.33	93.26	/	/	35.62	12.9	46.45	100	95	Peak
7095	85.83	83.76	/	/	35.62	12.9	46.45	100	95	Average
7125	52.23	50.1	88.2	-35.97	35.62	12.93	46.42	100	95	Peak
7125	47.02	44.89	68.2	-21.18	35.62	12.93	46.42	100	95	Average
7250	53.32	50.86	74	-20.68	35.65	13.09	46.28	100	95	Peak
7250	46.99	44.53	54	-7.01	35.65	13.09	46.28	100	95	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 7095MHz: Fundamental frequency.

CHANNEL	TX Channel 233	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
7115	83.1	81.09	/	/	35.52	12.92	46.43	100	80	Peak
7115	74.49	72.48	/	/	35.52	12.92	46.43	100	80	Average
7125	65.98	63.94	88.2	-22.22	35.53	12.93	46.42	100	80	Peak
7125	59.13	57.09	68.2	-9.07	35.53	12.93	46.42	100	80	Average
7250	51.3	48.94	74	-22.7	35.55	13.09	46.28	100	80	Peak
7250	45.91	43.55	54	-8.09	35.55	13.09	46.28	100	80	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
7115	90.4	88.29	/	/	35.62	12.92	46.43	100	100	Peak
7115	80.7	78.59	/	/	35.62	12.92	46.43	100	100	Average
7125	70.76	68.63	88.2	-17.44	35.62	12.93	46.42	100	100	Peak
7125	65.03	62.9	68.2	-3.17	35.62	12.93	46.42	100	100	Average
7250	54.08	51.62	74	-19.92	35.65	13.09	46.28	100	100	Peak
7250	46.02	43.56	54	-7.98	35.65	13.09	46.28	100	100	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 7115MHz: Fundamental frequency.



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Test Report No.: W7L-231218W001RF04

Harmonic

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
11914	65.61	51.41	74	-8.39	38.73	18.56	43.09	100	360	Peak
11914	51.37	37.17	54	-2.63	38.73	18.56	43.09	100	360	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
11914	69.3	55	74	-4.7	38.83	18.56	43.09	100	360	Peak
11914	50.09	35.79	54	-3.91	38.83	18.56	43.09	100	360	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5955MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



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Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 2	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
11863	66.17	52.46	74	-7.83	38.69	18.23	43.21	100	0	Peak
11863	50.05	36.34	54	-3.95	38.69	18.23	43.21	100	0	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
11863	68.6	54.79	74	-5.4	38.79	18.23	43.21	100	360	Peak
11863	49.58	35.77	54	-4.42	38.79	18.23	43.21	100	360	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5935MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

CHANNEL	TX Channel 45	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
12350	63.39	46.3	74	-10.61	38.8	21.82	43.53	200	0	Peak
12350	51.41	34.32	54	-2.59	38.8	21.82	43.53	200	0	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
12350	69.39	52.27	74	-4.61	38.83	21.82	43.53	100	360	Peak
12350	52.15	35.03	54	-1.85	38.83	21.82	43.53	100	360	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 6175MHz: Fundamental frequency.
- For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



CHANNEL	TX Channel 93	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
12832	61.89	44.83	88.2	-26.31	38.8	22.68	44.42	100	360	Peak
12832	52.98	35.92	68.2	-15.22	38.8	22.68	44.42	100	360	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
12832	64.35	47.16	88.2	-23.85	38.93	22.68	44.42	100	0	Peak
12832	51.71	34.52	68.2	-16.49	38.93	22.68	44.42	100	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 6415MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



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CHANNEL	TX Channel 97	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
12866	62.89	45.92	88.2	-25.31	38.8	22.65	44.48	100	0	Peak
12866	51.84	34.87	68.2	-16.36	38.8	22.65	44.48	100	0	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
12866	65.01	47.89	88.2	-23.19	38.95	22.65	44.48	100	360	Peak
12866	51.86	34.74	68.2	-16.34	38.95	22.65	44.48	100	360	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 6435MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



CHANNEL	TX Channel 105	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
12951	61.57	44.84	88.2	-26.63	38.8	22.57	44.64	200	0	Peak
12951	51.31	34.58	68.2	-16.89	38.8	22.57	44.64	200	0	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
12951	65.84	48.93	88.2	-22.36	38.98	22.57	44.64	100	0	Peak
12951	51.46	34.55	68.2	-16.74	38.98	22.57	44.64	100	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 6475MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

CHANNEL	TX Channel 113	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13036	61.27	44.97	88.2	-26.93	38.78	22.24	44.72	100	0	Peak
13036	50.12	33.82	68.2	-18.08	38.78	22.24	44.72	100	0	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13036	62.77	46.26	88.2	-25.43	38.99	22.24	44.72	100	360	Peak
13036	50.72	34.21	68.2	-17.48	38.99	22.24	44.72	100	360	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 6515MHz: Fundamental frequency.
- For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



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CHANNEL	TX Channel 117	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13070	61.1	45.08	88.2	-27.1	38.76	21.96	44.7	100	0	Peak
13070	49.7	33.68	68.2	-18.5	38.76	21.96	44.7	100	0	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13070	62.22	45.99	88.2	-25.98	38.97	21.96	44.7	100	360	Peak
13070	49.86	33.63	68.2	-18.34	38.97	21.96	44.7	100	360	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 6535MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



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Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13393	58.43	45.09	74	-15.57	38.56	19.35	44.57	100	360	Peak
13393	47.88	34.54	54	-6.12	38.56	19.35	44.57	100	360	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13393	60.33	46.71	74	-13.67	38.84	19.35	44.57	100	0	Peak
13393	47.92	34.3	54	-6.08	38.84	19.35	44.57	100	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 6695MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

CHANNEL	TX Channel 181	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13716	58.18	45.46	88.2	-30.02	38.54	18.62	44.44	100	0	Peak
13716	47.75	35.03	68.2	-20.45	38.54	18.62	44.44	100	0	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13716	62.05	48.94	88.2	-26.15	38.93	18.62	44.44	100	360	Peak
13716	48.83	35.72	68.2	-19.37	38.93	18.62	44.44	100	360	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 6855MHz: Fundamental frequency.
- For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



CHANNEL	TX Channel 185	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13750	57.75	44.99	88.2	-30.45	38.55	18.64	44.43	100	360	Peak
13750	47.81	35.05	68.2	-20.39	38.55	18.64	44.43	100	360	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13750	60.76	47.6	88.2	-27.44	38.95	18.64	44.43	200	0	Peak
13750	49.37	36.21	68.2	-18.83	38.95	18.64	44.43	200	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 6875MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



CHANNEL	TX Channel 189	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13784	58.99	46.19	88.2	-29.21	38.56	18.66	44.42	100	0	Peak
13784	47.43	34.63	68.2	-20.77	38.56	18.66	44.42	100	0	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13784	58.04	44.83	88.2	-30.16	38.97	18.66	44.42	100	360	Peak
13784	48.03	34.82	68.2	-20.17	38.97	18.66	44.42	100	360	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 6895MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



CHANNEL	TX Channel 209	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13988	59.91	46.86	88.2	-28.29	38.6	18.78	44.33	100	360	Peak
13988	47.79	34.74	68.2	-20.41	38.6	18.78	44.33	100	360	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13988	61.69	48.15	88.2	-26.51	39.09	18.78	44.33	100	0	Peak
13988	48.55	35.01	68.2	-19.65	39.09	18.78	44.33	100	0	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 6995MHz: Fundamental frequency.
- For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



CHANNEL	TX Channel 229	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
14192	59.59	46.29	88.2	-28.61	38.83	18.85	44.38	100	0	Peak
14192	48	34.7	68.2	-20.2	38.83	18.85	44.38	100	0	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
14192	62.7	48.98	88.2	-25.5	39.25	18.85	44.38	100	360	Peak
14192	48.66	34.94	68.2	-19.54	39.25	18.85	44.38	100	360	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 7095MHz: Fundamental frequency.
- For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



CHANNEL	TX Channel 233	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
14226	59.77	46.43	88.2	-28.43	38.87	18.86	44.39	100	360	Peak
14226	48.09	34.75	68.2	-20.11	38.87	18.86	44.39	100	360	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
14226	63.73	49.98	88.2	-24.47	39.28	18.86	44.39	100	0	Peak
14226	48.45	34.7	68.2	-19.75	39.28	18.86	44.39	100	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 7115MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



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802.11ax (40MHz)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5925	43.35	43.2	88.2	-44.85	35.17	11.72	46.74	100	105	Peak
5925	36.36	36.21	68.2	-31.84	35.17	11.72	46.74	100	105	Average
5965	85.44	85.21	/	/	35.24	11.74	46.75	100	105	Peak
5965	77.35	77.12	/	/	35.24	11.74	46.75	100	105	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5925	45.17	44.81	88.2	-43.03	35.38	11.72	46.74	100	105	Peak
5925	36.45	36.09	68.2	-31.75	35.38	11.72	46.74	100	105	Average
5965	89.28	88.85	/	/	35.44	11.74	46.75	100	105	Peak
5965	79.04	78.61	/	/	35.44	11.74	46.75	100	105	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5965MHz: Fundamental frequency.



**BUREAU
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Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 227	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
7085	85.78	83.84	/	/	35.52	12.88	46.46	100	190	Peak
7085	76.21	74.27	/	/	35.52	12.88	46.46	100	190	Average
7125	55.31	53.27	88.2	-32.89	35.53	12.93	46.42	100	190	Peak
7125	46.72	44.68	68.2	-21.48	35.53	12.93	46.42	100	190	Average
7250	54.17	51.81	74	-19.83	35.55	13.09	46.28	100	190	Peak
7250	46.85	44.49	54	-7.15	35.55	13.09	46.28	100	190	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
7085	92.2	90.16	/	/	35.62	12.88	46.46	100	100	Peak
7085	83.59	81.55	/	/	35.62	12.88	46.46	100	100	Average
7125	56.39	54.26	88.2	-31.81	35.62	12.93	46.42	100	100	Peak
7125	47.38	45.25	68.2	-20.82	35.62	12.93	46.42	100	100	Average
7250	62.3	59.84	74	-11.7	35.65	13.09	46.28	100	100	Peak
7250	46.85	44.39	54	-7.15	35.65	13.09	46.28	100	100	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 7085MHz: Fundamental frequency.

Harmonic

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
11931	59.86	45.5	74	-14.14	38.74	18.67	43.05	100	0	Peak
11931	49.2	34.84	54	-4.8	38.74	18.67	43.05	100	0	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
11931	59.97	45.51	74	-14.03	38.84	18.67	43.05	100	360	Peak
11931	49	34.54	54	-5	38.84	18.67	43.05	100	360	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5965MHz: Fundamental frequency.
- For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



CHANNEL	TX Channel 43	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
12322	62.15	45.23	74	-11.85	38.8	21.6	43.48	100	360	Peak
12322	50.95	34.03	54	-3.05	38.8	21.6	43.48	100	360	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
12322	61.53	44.57	74	-12.47	38.84	21.6	43.48	100	0	Peak
12322	50.98	34.02	54	-3.02	38.84	21.6	43.48	100	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 6165MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

CHANNEL	TX Channel 91	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
12815	63.3	46.2	88.2	-24.9	38.8	22.69	44.39	100	0	Peak
12815	51.74	34.64	68.2	-16.46	38.8	22.69	44.39	100	0	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
12815	62.65	45.42	88.2	-25.55	38.93	22.69	44.39	100	360	Peak
12815	51.71	34.48	68.2	-16.49	38.93	22.69	44.39	100	360	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 6405MHz: Fundamental frequency.
- For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



**BUREAU
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Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 99	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
12883	62.24	45.32	88.2	-25.96	38.8	22.63	44.51	100	360	Peak
12883	51.38	34.46	68.2	-16.82	38.8	22.63	44.51	100	360	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
12883	63.06	45.99	88.2	-25.14	38.95	22.63	44.51	100	0	Peak
12883	51.76	34.69	68.2	-16.44	38.95	22.63	44.51	100	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 6445MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



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Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 107	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
12968	60.92	44.23	88.2	-27.28	38.8	22.56	44.67	100	0	Peak
12968	51.04	34.35	68.2	-17.16	38.8	22.56	44.67	100	0	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
12968	61.49	44.61	88.2	-26.71	38.99	22.56	44.67	100	360	Peak
12968	51.13	34.25	68.2	-17.07	38.99	22.56	44.67	100	360	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 6485MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



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Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 115	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13053	60.56	44.4	88.2	-27.64	38.77	22.1	44.71	100	360	Peak
13053	50.07	33.91	68.2	-18.13	38.77	22.1	44.71	100	360	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13053	60.7	44.33	88.2	-27.5	38.98	22.1	44.71	100	0	Peak
13053	50.07	33.7	68.2	-18.13	38.98	22.1	44.71	100	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 6525MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

CHANNEL	TX Channel 123	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13138	60.21	44.75	88.2	-27.99	38.72	21.41	44.67	100	0	Peak
13138	48.94	33.48	68.2	-19.26	38.72	21.41	44.67	100	0	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13138	60.14	44.46	88.2	-28.06	38.94	21.41	44.67	100	360	Peak
13138	49.22	33.54	68.2	-18.98	38.94	21.41	44.67	100	360	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 6565MHz: Fundamental frequency.
- For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



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Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 147	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13376	57.74	44.26	74	-16.26	38.57	19.49	44.58	100	360	Peak
13376	47.69	34.21	54	-6.31	38.57	19.49	44.58	100	360	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13376	58.73	44.97	74	-15.27	38.85	19.49	44.58	100	0	Peak
13376	47.87	34.11	54	-6.13	38.85	19.49	44.58	100	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 6685MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



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Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 179	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13682	58.49	45.81	88.2	-29.71	38.54	18.6	44.46	100	0	Peak
13682	48	35.32	68.2	-20.2	38.54	18.6	44.46	100	0	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13682	57.74	44.69	88.2	-30.46	38.91	18.6	44.46	100	360	Peak
13682	48.27	35.22	68.2	-19.93	38.91	18.6	44.46	100	360	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 6845MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

CHANNEL	TX Channel 187	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13767	58.59	45.81	88.2	-29.61	38.55	18.65	44.42	100	360	Peak
13767	47.74	34.96	68.2	-20.46	38.55	18.65	44.42	100	360	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13767	59.26	46.07	88.2	-28.94	38.96	18.65	44.42	100	0	Peak
13767	47.97	34.78	68.2	-20.23	38.96	18.65	44.42	100	0	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 6885MHz: Fundamental frequency.
- For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



CHANNEL	TX Channel 195	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13850	55.23	42.35	88.2	-32.97	38.57	18.7	44.39	100	0	Peak
13850	43.34	30.46	68.2	-24.86	38.57	18.7	44.39	100	0	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13850	54.68	41.36	88.2	-33.52	39.01	18.7	44.39	100	0	Peak
13850	43.66	30.34	68.2	-24.54	39.01	18.7	44.39	100	0	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 6965MHz: Fundamental frequency.
- For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



**BUREAU
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Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 203	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13960	55.32	42.31	88.2	-32.88	38.59	18.77	44.35	100	306	Peak
13960	43.37	30.36	68.2	-24.83	38.59	18.77	44.35	100	306	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13960	56.06	42.56	88.2	-32.14	39.08	18.77	44.35	100	0	Peak
13960	43.68	30.18	68.2	-24.52	39.08	18.77	44.35	100	360	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 6965MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



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Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 227	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
14170	54.7	41.44	88.2	-33.5	38.8	18.84	44.38	100	360	Peak
14170	43.16	29.9	68.2	-25.04	38.8	18.84	44.38	100	360	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
14170	55.35	41.65	88.2	-32.85	39.24	18.84	44.38	100	0	Peak
14170	43.82	30.12	68.2	-24.38	39.24	18.84	44.38	100	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 7085MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



**BUREAU
VERITAS**

Test Report No.: W7L-231218W001RF04

802.11ax (80MHz)

CHANNEL	TX Channel 7	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5925	51.41	51.26	88.2	-36.79	35.17	11.72	46.74	100	100	Peak
5925	46.41	46.26	68.2	-21.79	35.17	11.72	46.74	100	100	Average
5985	94.13	93.88	/	/	35.27	11.74	46.76	100	100	Peak
5985	86.52	86.27	/	/	35.27	11.74	46.76	100	100	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5925	52.51	52.15	88.2	-35.69	35.38	11.72	46.74	100	50	Peak
5925	46.68	46.32	68.2	-21.52	35.38	11.72	46.74	100	50	Average
5985	96.37	95.91	/	/	35.48	11.74	46.76	100	50	Peak
5985	87.9	87.44	/	/	35.48	11.74	46.76	100	50	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5985MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 215	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
7025	83.64	81.85	/	/	35.51	12.81	46.53	100	95	Peak
7025	74.36	72.57	/	/	35.51	12.81	46.53	100	95	Average
7125	53.72	51.68	88.2	-34.48	35.53	12.93	46.42	100	95	Peak
7125	46.51	44.47	68.2	-21.69	35.53	12.93	46.42	100	95	Average
7250	52.03	49.67	74	-21.97	35.55	13.09	46.28	100	95	Peak
7250	46.69	44.33	54	-7.31	35.55	13.09	46.28	100	95	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
7025	89.17	87.29	/	/	35.6	12.81	46.53	100	90	Peak
7025	81.16	79.28	/	/	35.6	12.81	46.53	100	90	Average
7125	54.58	52.45	88.2	-33.62	35.62	12.93	46.42	100	90	Peak
7125	46.87	44.74	68.2	-21.33	35.62	12.93	46.42	100	90	Average
7250	54.41	51.95	74	-19.59	35.65	13.09	46.28	100	90	Peak
7250	46.73	44.27	54	-7.27	35.65	13.09	46.28	100	90	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 7025MHz: Fundamental frequency.

Harmonic

CHANNEL	TX Channel 7	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
11970	58.45	43.69	74	-15.55	38.78	18.93	42.95	100	360	Peak
11970	46.67	31.91	54	-7.33	38.78	18.93	42.95	100	360	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
11970	59.01	44.15	74	-14.99	38.88	18.93	42.95	100	360	Peak
11970	46.79	31.93	54	-7.21	38.88	18.93	42.95	100	360	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5985MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



**BUREAU
VERITAS**

Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 39	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
12290	61.03	44.3	74	-12.97	38.8	21.35	43.42	100	360	Peak
12290	47.76	31.03	54	-6.24	38.8	21.35	43.42	100	360	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
12290	60.53	43.76	74	-13.47	38.84	21.35	43.42	100	360	Peak
12290	47.88	31.11	54	-6.12	38.84	21.35	43.42	100	360	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 6145MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

CHANNEL	TX Channel 87	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
12770	60.84	43.61	88.2	-27.36	38.8	22.73	44.3	100	0	Peak
12770	48.55	31.32	68.2	-19.65	38.8	22.73	44.3	100	0	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
12770	60.65	43.31	88.2	-27.55	38.91	22.73	44.3	100	0	Peak
12770	48.68	31.34	68.2	-19.52	38.91	22.73	44.3	100	0	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 6385MHz: Fundamental frequency.
- For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



**BUREAU
VERITAS**

Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 103	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
12930	61.54	44.75	88.2	-26.66	38.8	22.59	44.6	100	360	Peak
12930	48.33	31.54	68.2	-19.87	38.8	22.59	44.6	100	360	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
12930	60.55	43.59	88.2	-27.65	38.97	22.59	44.6	100	360	Peak
12930	48.34	31.38	68.2	-19.86	38.97	22.59	44.6	100	360	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 6465MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



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VERITAS**

Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 119	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13090	58.9	43.04	88.2	-29.3	38.75	21.8	44.69	100	360	Peak
13090	46.39	30.53	68.2	-21.81	38.75	21.8	44.69	100	360	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13090	59.85	43.78	88.2	-28.35	38.96	21.8	44.69	100	360	Peak
13090	46.8	30.73	68.2	-21.4	38.96	21.8	44.69	100	360	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 6545MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



**BUREAU
VERITAS**

Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 135	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13250	57.76	43.23	74	-16.24	38.65	20.51	44.63	100	0	Peak
13250	45.96	31.43	54	-8.04	38.65	20.51	44.63	100	0	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13250	58.27	43.49	74	-15.73	38.9	20.51	44.63	100	360	Peak
13250	45.89	31.11	54	-8.11	38.9	20.51	44.63	100	360	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 6625MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13410	56.49	43.29	88.2	-31.71	38.55	19.22	44.57	100	360	Peak
13410	44.22	31.02	68.2	-23.98	38.55	19.22	44.57	100	360	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13410	56.23	42.74	88.2	-31.97	38.84	19.22	44.57	100	0	Peak
13410	56.42	42.93	68.2	-11.78	38.84	19.22	44.57	100	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 6705MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



**BUREAU
VERITAS**

Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 167	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13570	55	42.46	88.2	-33.2	38.51	18.53	44.5	100	0	Peak
13570	42.85	30.31	68.2	-25.35	38.51	18.53	44.5	100	0	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13570	54.91	42.04	88.2	-33.29	38.84	18.53	44.5	100	0	Peak
13570	43.27	30.4	68.2	-24.93	38.84	18.53	44.5	100	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 6785MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



**BUREAU
VERITAS**

Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 183	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13730	54.84	42.1	88.2	-33.36	38.55	18.63	44.44	100	0	Peak
13730	43.26	30.52	68.2	-24.94	38.55	18.63	44.44	100	0	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13730	55.02	41.89	88.2	-33.18	38.94	18.63	44.44	100	360	Peak
13730	44.06	30.93	68.2	-24.14	38.94	18.63	44.44	100	360	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 6865MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

CHANNEL	TX Channel 199	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13890	54.93	42	88.2	-33.27	38.58	18.72	44.37	100	0	Peak
13890	43.18	30.25	68.2	-25.02	38.58	18.72	44.37	100	0	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13890	55.33	41.95	88.2	-32.87	39.03	18.72	44.37	100	360	Peak
13890	43.22	29.84	68.2	-24.98	39.03	18.72	44.37	100	360	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 6945MHz: Fundamental frequency.
- For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



CHANNEL	TX Channel 215	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
14050	54.88	41.75	88.2	-33.32	38.66	18.81	44.34	100	0	Peak
14050	43.25	30.12	68.2	-24.95	38.66	18.81	44.34	100	0	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
14050	55.33	41.72	88.2	-32.87	39.14	18.81	44.34	100	360	Peak
14050	43.75	30.14	68.2	-24.45	39.14	18.81	44.34	100	360	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 7025MHz: Fundamental frequency.
- For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



**BUREAU
VERITAS**

Test Report No.: W7L-231218W001RF04

802.11ax (160MHz)

CHANNEL	TX Channel 15	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5925	54.38	54.23	88.2	-33.82	35.17	11.72	46.74	100	95	Peak
5925	46.29	46.14	68.2	-21.91	35.17	11.72	46.74	100	95	Average
6025	92.49	92.14	/	/	35.31	11.79	46.75	100	95	Peak
6025	83.34	82.99	/	/	35.31	11.79	46.75	100	95	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5925	51.5	51.14	88.2	-36.7	35.38	11.72	46.74	100	65	Peak
5925	46.67	46.31	68.2	-21.53	35.38	11.72	46.74	100	65	Average
6025	93.53	92.98	/	/	35.51	11.79	46.75	100	65	Peak
6025	85.21	84.66	/	/	35.51	11.79	46.75	100	65	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 6025MHz: Fundamental frequency.



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Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 207	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
6985	80.69	78.98	/	/	35.5	12.77	46.56	100	35	Peak
6985	72.96	71.25	/	/	35.5	12.77	46.56	100	35	Average
7125	52.46	50.42	88.2	-35.74	35.53	12.93	46.42	100	35	Peak
7125	46.77	44.73	68.2	-21.43	35.53	12.93	46.42	100	35	Average
7250	52.5	50.14	74	-21.5	35.55	13.09	46.28	100	35	Peak
7250	46.85	44.49	54	-7.15	35.55	13.09	46.28	100	35	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
6985	86.22	84.41	/	/	35.6	12.77	46.56	100	90	Peak
6985	77.91	76.1	/	/	35.6	12.77	46.56	100	90	Average
7125	54.7	52.57	88.2	-33.5	35.62	12.93	46.42	100	90	Peak
7125	46.73	44.6	68.2	-21.47	35.62	12.93	46.42	100	90	Average
7250	53.51	51.05	74	-20.49	35.65	13.09	46.28	100	90	Peak
7250	46.98	44.52	54	-7.02	35.65	13.09	46.28	100	90	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 6985MHz: Fundamental frequency.

Harmonic

CHANNEL	TX Channel 15	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
12050	59.69	44.35	74	-14.31	38.8	19.51	42.97	100	360	Peak
12050	46.99	31.65	54	-7.01	38.8	19.51	42.97	100	360	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
12050	59.53	44.1	74	-14.47	38.89	19.51	42.97	100	360	Peak
12050	47.04	31.61	54	-6.96	38.89	19.51	42.97	100	360	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 6025MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



CHANNEL	TX Channel 47	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
12370	61.41	44.2	74	-12.59	38.8	21.97	43.56	100	360	Peak
12370	48.22	31.01	54	-5.78	38.8	21.97	43.56	100	360	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
12370	60.48	43.24	74	-13.52	38.83	21.97	43.56	100	0	Peak
12370	48.06	30.82	54	-5.94	38.83	21.97	43.56	100	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 6185MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

CHANNEL	TX Channel 79	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
12690	60.95	43.51	74	-13.05	38.8	22.8	44.16	100	360	Peak
12690	48.95	31.51	54	-5.05	38.8	22.8	44.16	100	360	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
12690	60.58	43.06	74	-13.42	38.88	22.8	44.16	100	0	Peak
12690	48.6	31.08	54	-5.4	38.88	22.8	44.16	100	0	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 6345MHz: Fundamental frequency.
- For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



**BUREAU
VERITAS**

Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 111	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13010	60.47	43.96	88.2	-27.73	38.79	22.45	44.73	100	0	Peak
13010	47.16	30.65	68.2	-21.04	38.79	22.45	44.73	100	0	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13010	59.64	42.92	88.2	-28.56	39	22.45	44.73	100	360	Peak
13010	47.29	30.57	68.2	-20.91	39	22.45	44.73	100	360	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 6505MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



**BUREAU
VERITAS**

Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 143	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13330	55.75	41.89	74	-18.25	38.6	19.86	44.6	100	360	Peak
13330	44.65	30.79	54	-9.35	38.6	19.86	44.6	100	360	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13330	57.54	43.41	74	-16.46	38.87	19.86	44.6	100	360	Peak
13330	44.34	30.21	54	-9.66	38.87	19.86	44.6	100	360	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 6665MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



**BUREAU
VERITAS**

Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 175	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13560	55.38	42.85	88.2	-32.82	38.51	18.53	44.51	100	360	Peak
13560	42.62	30.09	68.2	-25.58	38.51	18.53	44.51	100	360	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13560	55.89	43.03	88.2	-32.31	38.84	18.53	44.51	100	0	Peak
13560	43.46	30.6	68.2	-24.74	38.84	18.53	44.51	100	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 6825MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

CHANNEL	TX Channel 207	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13970	55.02	42	88.2	-33.18	38.59	18.77	44.34	100	0	Peak
13970	43.23	30.21	68.2	-24.97	38.59	18.77	44.34	100	0	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13970	55.71	42.2	88.2	-32.49	39.08	18.77	44.34	100	0	Peak
13970	43.87	30.36	68.2	-24.33	39.08	18.77	44.34	100	0	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 2.6985MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

WIFI 6E-RU

802.11ax (20MHz) (RU26):

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5925	53.06	52.91	88.2	-35.14	35.17	11.72	46.74	100	70	Peak
5925	46.2	46.05	68.2	-22	35.17	11.72	46.74	100	70	Average
5955	92.32	92.12	/	/	35.22	11.73	46.75	100	70	Peak
5955	83.96	83.76	/	/	35.22	11.73	46.75	100	70	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5925	53.17	52.81	88.2	-35.03	35.38	11.72	46.74	100	150	Peak
5925	46.34	45.98	68.2	-21.86	35.38	11.72	46.74	100	150	Average
5955	94.8	94.39	/	/	35.43	11.73	46.75	100	150	Peak
5955	85.68	85.27	/	/	35.43	11.73	46.75	100	150	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5955MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 2	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5925	73.79	73.64	88.2	-14.41	35.17	11.72	46.74	100	100	Peak
5925	64.85	64.7	68.2	-3.35	35.17	11.72	46.74	100	100	Average
5935	85.29	85.12	/	/	35.18	11.73	46.74	100	100	Peak
5935	78.03	77.86	/	/	35.18	11.73	46.74	100	100	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5925	72.14	71.78	88.2	-16.06	35.38	11.72	46.74	100	45	Peak
5925	65.1	64.74	68.2	-3.1	35.38	11.72	46.74	100	45	Average
5935	87.48	87.09	/	/	35.4	11.73	46.74	100	45	Peak
5935	79.35	78.96	/	/	35.4	11.73	46.74	100	45	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5935MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 229	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
7095	82.04	80.07	/	/	35.52	12.9	46.45	100	90	Peak
7095	74.12	72.15	/	/	35.52	12.9	46.45	100	90	Average
7125	52.6	50.56	88.2	-35.6	35.53	12.93	46.42	100	90	Peak
7125	46.59	44.55	68.2	-21.61	35.53	12.93	46.42	100	90	Average
7250	51.62	49.26	74	-22.38	35.55	13.09	46.28	100	90	Peak
7250	46.55	44.19	54	-7.45	35.55	13.09	46.28	100	90	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
7095	88.62	86.55	/	/	35.62	12.9	46.45	100	95	Peak
7095	80.8	78.73	/	/	35.62	12.9	46.45	100	95	Average
7125	54.59	52.46	88.2	-33.61	35.62	12.93	46.42	100	95	Peak
7125	46.55	44.42	68.2	-21.65	35.62	12.93	46.42	100	95	Average
7250	53.87	51.41	74	-20.13	35.65	13.09	46.28	100	95	Peak
7250	46.58	44.12	54	-7.42	35.65	13.09	46.28	100	95	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 7095MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 233	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
7115	80.3	78.29	/	/	35.52	12.92	46.43	100	190	Peak
7115	71.27	69.26	/	/	35.52	12.92	46.43	100	190	Average
7125	61.97	59.93	88.2	-26.23	35.53	12.93	46.42	100	190	Peak
7125	58.74	56.7	68.2	-9.46	35.53	12.93	46.42	100	190	Average
7250	55.21	52.85	74	-18.79	35.55	13.09	46.28	100	190	Peak
7250	46.59	44.23	54	-7.41	35.55	13.09	46.28	100	190	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
7115	87.01	84.9	/	/	35.62	12.92	46.43	100	95	Peak
7115	78	75.89	/	/	35.62	12.92	46.43	100	95	Average
7125	70.31	68.18	88.2	-17.89	35.62	12.93	46.42	100	95	Peak
7125	64.7	62.57	68.2	-3.5	35.62	12.93	46.42	100	95	Average
7250	51.64	49.18	74	-22.36	35.65	13.09	46.28	100	95	Peak
7250	46.6	44.14	54	-7.4	35.65	13.09	46.28	100	95	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 7115MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-231218W001RF04

802.11ax (20MHz) (RU52):

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5925	51.96	51.81	88.2	-36.24	35.17	11.72	46.74	100	95	Peak
5925	46.12	45.97	68.2	-22.08	35.17	11.72	46.74	100	95	Average
5955	98.83	98.63	/	/	35.22	11.73	46.75	100	95	Peak
5955	88.53	88.33	/	/	35.22	11.73	46.75	100	95	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5925	52.78	52.42	88.2	-35.42	35.38	11.72	46.74	100	130	Peak
5925	46.14	45.78	68.2	-22.06	35.38	11.72	46.74	100	130	Average
5955	99.79	99.38	/	/	35.43	11.73	46.75	100	130	Peak
5955	90.03	89.62	/	/	35.43	11.73	46.75	100	130	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5955MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 2	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5925	73.27	73.12	88.2	-14.93	35.17	11.72	46.74	100	100	Peak
5925	65.17	65.02	68.2	-3.03	35.17	11.72	46.74	100	100	Average
5935	88.19	88.02	/	/	35.18	11.73	46.74	100	100	Peak
5935	79.35	79.18	/	/	35.18	11.73	46.74	100	100	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5925	73.77	73.41	88.2	-14.43	35.38	11.72	46.74	100	110	Peak
5925	64.78	64.42	68.2	-3.42	35.38	11.72	46.74	100	110	Average
5935	87.43	87.04	/	/	35.4	11.73	46.74	100	110	Peak
5935	79.95	79.56	/	/	35.4	11.73	46.74	100	110	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5935MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 229	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
7095	87.66	85.69	/	/	35.52	12.9	46.45	100	200	Peak
7095	78.51	76.54	/	/	35.52	12.9	46.45	100	200	Average
7125	52.93	50.89	88.2	-35.27	35.53	12.93	46.42	100	200	Peak
7125	46.48	44.44	68.2	-21.72	35.53	12.93	46.42	100	200	Average
7250	53.54	51.18	74	-20.46	35.55	13.09	46.28	100	200	Peak
7250	46.43	44.07	54	-7.57	35.55	13.09	46.28	100	200	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
7095	96.3	94.23	/	/	35.62	12.9	46.45	100	100	Peak
7095	87.04	84.97	/	/	35.62	12.9	46.45	100	100	Average
7125	54.26	52.13	88.2	-33.94	35.62	12.93	46.42	100	100	Peak
7125	46.73	44.6	68.2	-21.47	35.62	12.93	46.42	100	100	Average
7250	52.19	49.73	74	-21.81	35.65	13.09	46.28	100	100	Peak
7250	46.59	44.13	54	-7.41	35.65	13.09	46.28	100	100	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 7095MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 233	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
7115	80.85	78.84	/	/	35.52	12.92	46.43	100	195	Peak
7115	72.2	70.19	/	/	35.52	12.92	46.43	100	195	Average
7125	65.8	63.76	88.2	-22.4	35.53	12.93	46.42	100	195	Peak
7125	57.16	55.12	68.2	-11.04	35.53	12.93	46.42	100	195	Average
7250	52.99	50.63	74	-21.01	35.55	13.09	46.28	100	195	Peak
7250	46.59	44.23	54	-7.41	35.55	13.09	46.28	100	195	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
7115	87.98	85.87	/	/	35.62	12.92	46.43	100	105	Peak
7115	79.01	76.9	/	/	35.62	12.92	46.43	100	105	Average
7125	70.52	68.39	88.2	-17.68	35.62	12.93	46.42	100	105	Peak
7125	65.02	62.89	68.2	-3.18	35.62	12.93	46.42	100	105	Average
7250	53.09	50.63	74	-20.91	35.65	13.09	46.28	100	105	Peak
7250	46.63	44.17	54	-7.37	35.65	13.09	46.28	100	105	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 7115MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-231218W001RF04

802.11ax (20MHz) (RU106):

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5925	52.88	52.73	88.2	-35.32	35.17	11.72	46.74	100	95	Peak
5925	45.95	45.8	68.2	-22.25	35.17	11.72	46.74	100	95	Average
5955	91.7	91.5	/	/	35.22	11.73	46.75	100	95	Peak
5955	83.42	83.22	/	/	35.22	11.73	46.75	100	95	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5925	52.45	52.09	88.2	-35.75	35.38	11.72	46.74	100	45	Peak
5925	46.2	45.84	68.2	-22	35.38	11.72	46.74	100	45	Average
5955	94.74	94.33	/	/	35.43	11.73	46.75	100	45	Peak
5955	86.27	85.86	/	/	35.43	11.73	46.75	100	45	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5955MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 2	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5925	66.5	66.35	88.2	-21.7	35.17	11.72	46.74	100	95	Peak
5925	61.13	60.98	68.2	-7.07	35.17	11.72	46.74	100	95	Average
5935	84.59	84.42	/	/	35.18	11.73	46.74	100	95	Peak
5935	76.4	76.23	/	/	35.18	11.73	46.74	100	95	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5925	72.77	72.41	88.2	-15.43	35.38	11.72	46.74	100	45	Peak
5925	64.92	64.56	68.2	-3.28	35.38	11.72	46.74	100	45	Average
5935	86.73	86.34	/	/	35.4	11.73	46.74	100	45	Peak
5935	79.07	78.68	/	/	35.4	11.73	46.74	100	45	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5935MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 229	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
7095	88.23	86.26	/	/	35.52	12.9	46.45	100	195	Peak
7095	79.65	77.68	/	/	35.52	12.9	46.45	100	195	Average
7125	52.33	50.29	88.2	-35.87	35.53	12.93	46.42	100	195	Peak
7125	46.61	44.57	68.2	-21.59	35.53	12.93	46.42	100	195	Average
7250	54.19	51.83	74	-19.81	35.55	13.09	46.28	100	195	Peak
7250	46.47	44.11	54	-7.53	35.55	13.09	46.28	100	195	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
7095	94.34	92.27	/	/	35.62	12.9	46.45	100	100	Peak
7095	85.8	83.73	/	/	35.62	12.9	46.45	100	100	Average
7125	52.3	50.17	88.2	-35.9	35.62	12.93	46.42	100	100	Peak
7125	46.69	44.56	68.2	-21.51	35.62	12.93	46.42	100	100	Average
7250	52.29	49.83	74	-21.71	35.65	13.09	46.28	100	100	Peak
7250	46.58	44.12	54	-7.42	35.65	13.09	46.28	100	100	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 7095MHz: Fundamental frequency.



**BUREAU
VERITAS**

Test Report No.: W7L-231218W001RF04

CHANNEL	TX Channel 233	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
7115	78.25	76.24	/	/	35.52	12.92	46.43	100	100	Peak
7115	66.61	64.6	/	/	35.52	12.92	46.43	100	100	Average
7125	63.94	61.9	88.2	-24.26	35.53	12.93	46.42	100	100	Peak
7125	55.21	53.17	68.2	-12.99	35.53	12.93	46.42	100	100	Average
7250	52.75	50.39	74	-21.25	35.55	13.09	46.28	100	100	Peak
7250	46.52	44.16	54	-7.48	35.55	13.09	46.28	100	100	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
7115	84.64	82.53	/	/	35.62	12.92	46.43	100	95	Peak
7115	74.23	72.12	/	/	35.62	12.92	46.43	100	95	Average
7125	69.95	67.82	88.2	-18.25	35.62	12.93	46.42	100	95	Peak
7125	64.76	62.63	68.2	-3.44	35.62	12.93	46.42	100	95	Average
7250	54.23	51.77	74	-19.77	35.65	13.09	46.28	100	95	Peak
7250	46.73	44.27	54	-7.27	35.65	13.09	46.28	100	95	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 7115MHz: Fundamental frequency.

3.2 IN-BAND EMISSION (MASK) MEASUREMENT

3.2.1 LIMITS OF IN-BAND EMISSION (MASK) MEASUREMENT

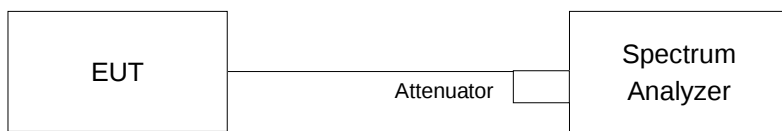
Test Item	Frequencies (MHz)	(X) dBc ^{*1}
Emission Mask	At 1 MHz outside of channel edge	20
	At one channel bandwidth from the channel center ^{*2}	28
	At one- and one-half times the channel bandwidth away from channel center ^{*3}	40
	More than one- and one-half times the channel bandwidth	40

*1 : The power spectral density must be suppressed by “x” dB

*2 : At frequencies between one megahertz outside an unlicensed device’s channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression,

*3 : At frequencies between one and one- and one-half times an unlicensed device’s channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression.

3.2.2 TEST SETUP



3.2.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	ANRITSU	ML2495A	1506002	Feb. 14,23	Feb. 13,24
Power Meter	ANRITSU	ML2495A	1506002	Feb. 13,24	Feb. 12,25
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510523	Feb. 14,23	Feb. 13,24
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510523	Feb. 13,24	Feb. 12,25
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.10,23	May.09,24
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.09,24	May.08,25
EXA Signal Analyzer	KEYSIGHT	N9010B-156	MY62170156	Aug.01,23	Jul. 31,24
Power Sensor	ANRITSU	MA2411B	1339352	Feb. 14,23	Feb. 13,24
Power Sensor	ANRITSU	MA2411B	1339352	Feb. 13,24	Feb. 12,25

NOTE:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GREGT/CHINA and NIM/CHINA.
2. The test was performed in RF Oven room.

3.2.4 TEST PROCEDURE

- a. Connect output of the antenna port to a spectrum analyzer and adjust appropriate attenuation.
- b. Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10-2020. (Determine the channel edge.)
- c. Measure the power spectral density (for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.
- d. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
 - a) Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
 - b) Suppressed by 28 dB at one channel bandwidth from the channel center.
 - c) Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
- e. Adjust the span to encompass the entire mask as necessary and clear trace.
- f. Trace average at least 100 traces in power averaging (rms) mode.
- g. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask

3.2.5 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



Test Report No.: W7L-231218W001RF04

3.2.6 TEST RESULTS

Please Refer to Appendix D Of this test report.

3.3 CONDUCTED EMISSION MEASUREMENT

3.3.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

3.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Feb. 14,23	Feb. 13,24
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Feb. 13,24	Feb. 12,25
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Mar. 10,23	Mar. 09,24
LISN network	Rohde&Schwarz	ENV216	101922	Mar. 09,24	Mar. 08,25

NOTE: 1. The test was performed in CE shielded room.

2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

3.3.3 TEST PROCEDURES

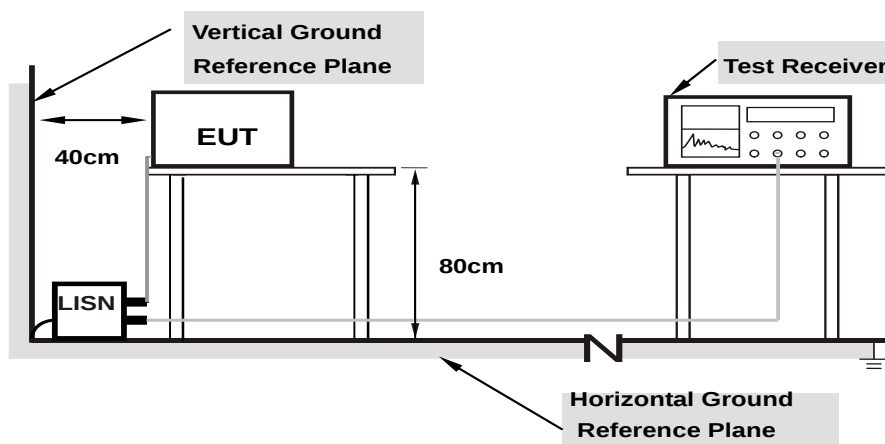
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

3.3.4 DEVIATION FROM TEST STANDARD

No deviation.

3.3.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.3.6 EUT OPERATING CONDITIONS

Same as 3.1.6.

3.3.7 TEST RESULTS

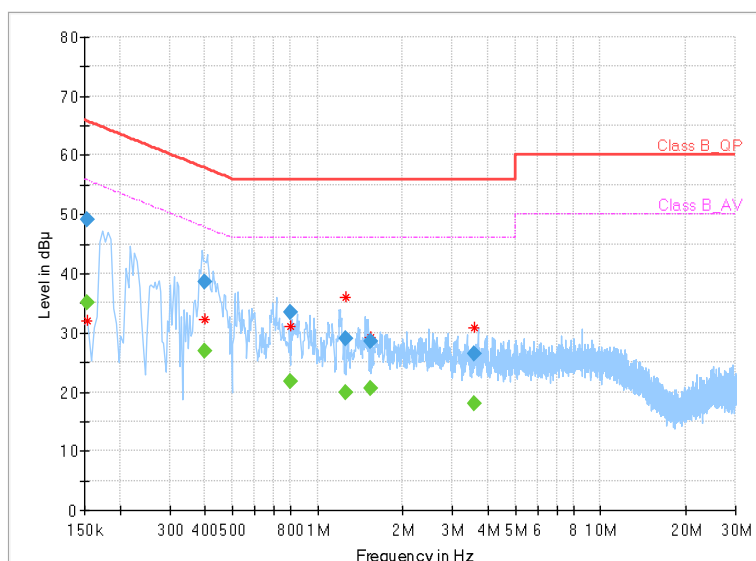
CONDUCTED WORST-CASE DATA:

Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	26deg. C, 51%RH
Tested By	Carl Xie		

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.154000	---	35.18	55.78	20.60	L1	ON	9.8
0.154000	49.09	---	65.78	16.69	L1	ON	9.8
0.400000	---	26.84	47.85	21.01	L1	ON	9.8
0.400000	38.62	---	57.85	19.23	L1	ON	9.8
0.800000	---	21.86	46.00	24.14	L1	ON	9.8
0.800000	33.51	---	56.00	22.49	L1	ON	9.8
1.260000	---	19.89	46.00	26.11	L1	ON	9.8
1.260000	29.07	---	56.00	26.93	L1	ON	9.8
1.540000	---	20.47	46.00	25.53	L1	ON	9.8
1.540000	28.57	---	56.00	27.43	L1	ON	9.8
3.592000	---	18.06	46.00	27.94	L1	ON	9.8
3.592000	26.37	---	56.00	29.63	L1	ON	9.8

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Limit value - Emission level
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

Full Spectrum



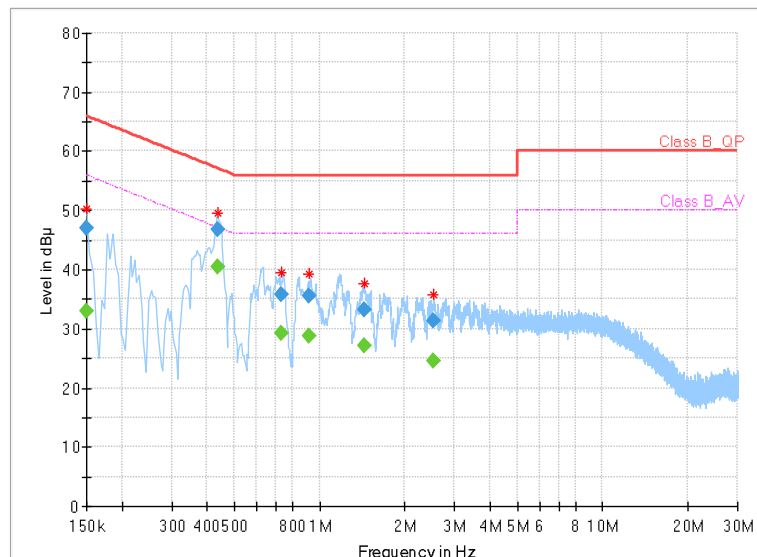


Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	26deg. C, 51%RH
Tested By	Carl Xie		

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	32.88	56.00	23.12	N	ON	9.7
0.150000	46.96	---	66.00	19.04	N	ON	9.7
0.436000	---	40.41	47.14	6.73	N	ON	9.6
0.436000	46.88	---	57.14	10.26	N	ON	9.6
0.736000	---	29.15	46.00	16.85	N	ON	9.7
0.736000	35.83	---	56.00	20.17	N	ON	9.7
0.916000	---	28.73	46.00	17.27	N	ON	9.7
0.916000	35.47	---	56.00	20.53	N	ON	9.7
1.432000	---	27.06	46.00	18.94	N	ON	9.7
1.432000	33.28	---	56.00	22.72	N	ON	9.7
2.516000	---	24.65	46.00	21.35	N	ON	9.8
2.516000	31.44	---	56.00	24.56	N	ON	9.8

- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Limit value - Emission level
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.

Full Spectrum

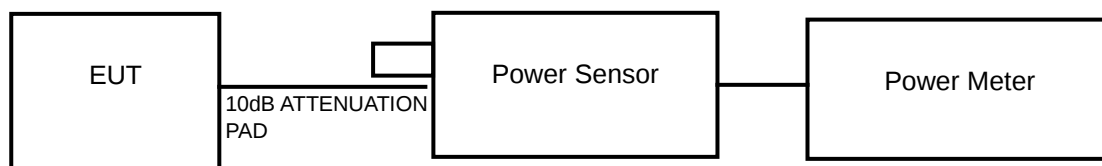


3.4 TRANSMIT POWER MEASUREMENT

3.4.1 LIMITS OF TRANSMIT POWER MEASUREMENT

Operation Band	EUT Category	Limit
		Max Average Power
U-NII-5 U-NII-6 U-NII-7 U-NII-8	Client Devices (controlled of an indoor AP)	EIRP 24 dBm
U-NII-5 U-NII-7	Client Devices (controlled of a Standard Power AP)	EIRP 30 dBm

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.2.3 to get information on the above instrument.

3.4.4 TEST PROCEDURE

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



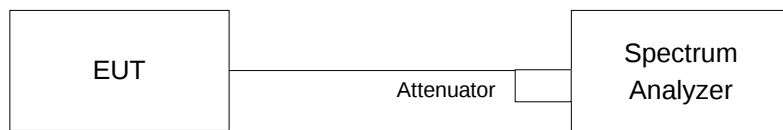
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3.4.7 TEST RESULT

Please Refer to Appendix D Of this test report.

3.5 EMISSION BANDWIDTH MEASUREMENT

3.5.1 TEST SETUP



3.5.2 TEST INSTRUMENTS

Refer to section 3.2.3 to get information of above instrument.

3.5.3 TEST PROCEDURE

For 99% Occupied Bandwidth

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

For 26dB Bandwidth

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.



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3.5.4 TEST RESULT

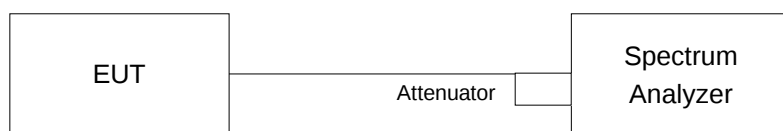
Please Refer to Appendix D Of this test report.

3.6 MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

3.6.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

Operation Band	EUT Category	Limit
		Peak Power Density (EIRP)
U-NII-5 U-NII-6 U-NII-7 U-NII-8	Client Devices (controlled of an indoor AP)	-1 dBm/MHz
U-NII-5 U-NII-7	Client Devices (controlled of a Standard Power AP)	17 dBm/MHz

3.6.2 TEST SETUP



3.6.3 TEST INSTRUMENTS

Refer to section 3.2.3 to get information on the above instrument.

3.6.4 TEST PROCEDURES USED

KDB 789033 D02v02r01-SectionF

Test Setting

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass THE ENTIRE 26dB EBW of the signal
3. RBW=1MHz
4. VBW=3MHz
5. Number of sweep points $\geq 2 \times \text{span} / \text{RBW}$
6. Detector=power averaging(Average)
7. Sweep time=auto
8. Trigger=free run
9. Use the peak search function on the instrument to find the peak of the spectrum and record its value

3.6.5 DEVIATION FROM TEST STANDARD

No deviation.

3.6.6 EUT OPERATING CONDITIONS

Same as 3.3.6.



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3.6.7 TEST RESULTS

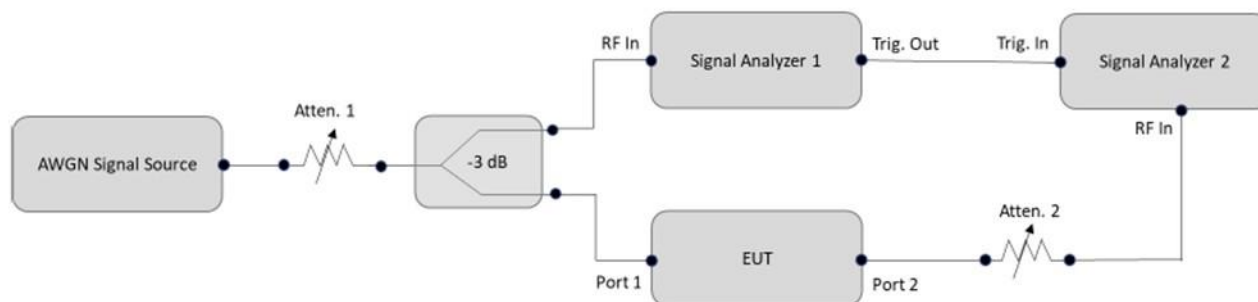
Please Refer to Appendix D Of this test report.

3.7 CONTENTION BASED PROTOCOL MEASUREMENT

3.7.1 LIMITS OF CONTENTION BASED PROTOCOL MEASUREMENT

Unlicensed indoor low-power devices must detect co-channel radio frequency power that is at least -62 dBm (The threshold is referenced to a 0 dBi antenna gain.) or lower. Additionally, indoor low-power devices must detect co-channel energy with 90% or greater certainty.

3.7.2 TEST SETUP



3.7.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	R&S	ESW 44	101973	Feb.25,24	Feb.24,26
Open Switch and Control Unit	R&S	OSP-B157W8	100836	N/A	N/A
Vector Signal Generator	R&S	SMBV100B	102176	Feb.16,24	Feb.15,26
Signal Generator	R&S	SMB100A03	182185	Feb.16,24	Feb.15,26
Wideband Radio Communication	R&S	CMW500	169399	Jun.26,22	Jun.25,24
Hygrothermograph	DELI	20210528	SZ015	Sep.06,22	Sep.05,24
PC	LENOVO	E14	HRSW0024	N/A	N/A
Test Software	EMC32	EMC32	N/A	N/A	N/A
Temperature Chamber	votsch	VT4002	58566078100050	May.31,24	May.30,26

3.7.4 TEST PROCEDURE

- 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. Connect the output port of the EUT to the signal analyzer 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
- Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters (set as following section 4.7.5 EUT operating condition).
- Determine number of times detection threshold test as following table,

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	Once	Same as EUT transmission
$BW_{Inc} < BW_{EUT} \leq 2 \times BW_{Inc}$	Once	Contained within BW_{EUT}
$2 \times BW_{Inc} < BW_{EUT} \leq 4 \times BW_{Inc}$	Twice. (Incumbent transmission is contained within BW_{EUT})	Closely to the lower edge and upper edge of the EUT Channel
$BW_{EUT} > 4 \times BW_{Inc}$	Three times	Closely to the lower edge ,in the middle and upper edge of the EUT Channel

- Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use step c table to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
- 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.
- Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
- 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.
- (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.
- Refer to step c table 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 d, choose a different center frequency for the AWGN signal and repeat the process.

3.7.5 EUT OPERATING CONDITION

Set the EUT to transmit with a constant duty cycle and relative operating parameters which including power level, operating frequency, modulation and bandwidth.



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3.7.6 TEST RESULTS

Please Refer to Appendix D Of this test report.

3.8 ANTENNA REQUIREMENTS

3.8.1 STANDARD APPLICABLE

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.8.2 ANTENNA CONNECTED CONSTRUCTION

An embedded-in antenna design is used.

3.8.3 ANTENNA GAIN

According to FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain=GANT +Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain= 10 log(NANT/ Nss) dB;

For power measurements on IEEE 802.11 devices, Array Gain = 0 dB for NANT≤ 4;

The EUT supports Cyclic Delay Diversity (CDD) mode,

For power measurements, the directional GANT is set equal to the antenna having the highest gain as following formulas.

Directional Gain = Max.Gain + Array Gain.

For PSD measurements, the directional GANT is calculation is following F)2)f)ii of KDB 662911 D01 v02r01.

The directional gain is calculated as following table.

	Band	Ant 1 (dBi)	Ant 2 (dBi)	DG For Power (dBi)	DG For PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
6GHz	U-NII 5	-1.64	-0.55	-0.55	1.93	0	0
	U-NII 6	-5.07	-1.44	-1.44	-0.06	0	0
	U-NII 7	-6.92	-1.77	-1.77	-0.96	0	0
	U-NII 8	-6.26	-2.93	-2.93	-1.43	0	0

NOTE :DG= directional gain, Power Limit Reduction = DG For Power Gain -6dbi<0

PSD Limit Reduction = DG For PSD – 6dBi<0. Therefore, it is not necessary to reduce maximum peak output power and PSD limit.



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4 PICTURES OF TEST ARRANGEMENTS

Please refer to the attached file (Test Setup Photo).

5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

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