

Prüfbericht-Nr.: <i>Test report no.:</i>	CN24Y2BK 001	Auftrags-Nr.: <i>Order no.:</i>	168498516 (P01599877)	Seite 1 von 16 <i>Page 1 of 16</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2024-08-12	
Auftraggeber: <i>Client:</i>	Shenzhen RAKwireless Technology Co.,Ltd. Room 506, Building B, New Compark, Pingshan First Road, Taoyuan Street, Nanshan District, Shenzhen, Guangdong, China			
Prüfgegenstand: <i>Test item:</i>	Wi-Fi Module			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	RAK634 (Trademark: )			
Auftrags-Inhalt: <i>Order content:</i>	FCC CIIPC, IC C4PC			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 22 CFR47 FCC Part 24 CFR47 FCC Part 27 CFR47 FCC Part 90 RSS-247 Issue 3 RSS-Gen Issue 5 RSS-130 Issue 2 RSS-132 Issue 4 RSS-133 Issue 6 RSS-139 Issue 4			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2024-08-12	Please refer to photo documents		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003790302-001			
Prüfzeitraum: <i>Testing period:</i>	2024-08-12 – 2024-09-30			
Ort der Prüfung: <i>Place of testing:</i>	Refer to section 2.1			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	 Hardy Suo		genehmigt von: <i>authorized by:</i>	 Lin Lin
Datum: <i>Date:</i>	2024-10-18		Ausstellungsdatum: <i>Issue date:</i>	2024-10-18
Stellung / Position	Sachverständige(r)/Expert		Stellung / Position	Sachverständige(r)/Expert
Sonstiges / Other:	FCC ID: 2AF6B-RAK634 IC: 25908-RAK634, HVIN: RAK634 HMN: RAK7267 This report is for FCC CIIPC and ISED C4PC as changed transmit antennas and will be installed into HOST WisGate Soho Pro (M/N: RAK7267), radiated spurious emissions was re-performed.			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged:</i>			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Test report no.:

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Anmerkungen Remarks

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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.3 CO-LOCATED RADIATED SPURIOUS EMISSIONS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results

Appendix B: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

Shenzhen UnionTrust Quality and Technology Co., Ltd.

16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua New District, Shenzhen, China

A2LA Certificate Number: 4312.01

IC Registration No.: 21600, CAB identifier: CN0032

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radiated Emission Test - 3M Chamber						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	3m Chamber & Accessory Equipment	ETS-Lindgren	3m	Euroshiedpn-CT001270-1317	11-Nov-2023	10-Nov-2026
☒	Broadband Antenna	ETS-Lindgren	3142E	00201566	30-Oct-2023	29-Oct-2024
☒	6dB Attenuator	Talent	RA6A5-N-18	18103001	30-Oct-2023	29-Oct-2024
☒	Pre-amplifier	HP	8447F	2805A02960	31-Oct-2023	30-Oct-2024
☒	Receiver	ROHDE & SCHWARZ	ESIB26	100114	27-Oct-2023	26-Oct-2024
☒	Double-Ridged Waveguide Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3117-PA	00201541	1- Apr-2024	31-Mar-2025
☒	Pre-amplifier	ETS-Lindgren	00118385	00201874	31-Oct-2023	30-Oct-2024
☒	Band Reject Filter(2400MHz~2500 MHz)	Micro-tronics	BRM50702	G248	17- Jan-2024	16- Jan-2025
☒	Band Reject Filter (5150MHz~5880MHz)	Micro-tronics	BRM50716	G186	27-Oct-2023	26-Oct-2024
☒	Multi device Controller	ETS-Lindgren	7006-001	00160105	N/A	N/A
☒	Test Software	Audix	e3	Software Version: 9.160323		

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

No.	Item	Measurement Uncertainty
1	Conducted emission 9kHz-150kHz	± 3.2 dB
2	Conducted emission 150kHz-30MHz	± 2.7 dB
3	Radiated emission 30MHz-1GHz	± 4.6 dB
4	Radiated emission 1GHz-18GHz	± 4.4 dB
Remark: 95% Confidence Levels, $k=2$.		

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, People's Republic of China. is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is IEEE 802.11 b/g/n 2.4GHz 2T2R Wi-Fi Module.

Previous Antenna information:

This module has five different antennas, the details specifications for these antennas as below:

Antenna #	Model	Antenna Gain	Antenna Type	Connector Type
1#	SA05A01RA	5.4dBi for Ant0 5.0dBi for Ant1	PIFA antenna	IPEX Connector
2#	SA03A01RA	5.4dBi for Ant0 5.0dBi for Ant1	PIFA antenna	IPEX Connector
3#	SA05A02RA	5.4dBi for Ant0 5.0dBi for Ant1	PIFA antenna	IPEX Connector
4#	6147F00013	3.0 dBi for Ant0 & Ant1	PCB Layout Antenna	IPEX Connector
5#	K7ABLG2G4ML400	2.0 dBi for Ant0 & Ant1	Fiber Glass Antenna	N-Type Male

Note:

1. When connecting to the module, all antennas listed above need to transfer to an IPEX connector.
2. Antennas 1#, 2# and 3# have the same type and similar in-band and out-of-band characteristics, they are considered as equivalent antennas. Thus, the antenna 1# with highest gain was selected to be tested.

Current Antenna information:

New two PCB layout antennas with 2dBi.

This report is for FCC CIIPC and ISED C4PC as changed transmit antennas and will be installed into HOST WisGate Soho Pro (M/N: RAK7267), radiated spurious emissions for 2.4G WIFI and co-location were re-performed.

HOST WisGate Soho Pro (M/N: RAK7267) has Lora, 2.4G WIFI (contains FCC ID: 2AF6B-RAK634, IC: 25908-RAK634) and LTE (contains FCC ID: XMR2023EG915QNA, IC: 10224A-023EG915QNA) functions, refer to test report CN24DMBD 001 and CN24DMBD 002 for HOST WisGate Soho Pro (M/N: RAK7267) test data.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	Wi-Fi Module
Type Designation	RAK634
Trade Mark	RAK
FCC ID	2AF6B-RAK634

IC	25908-RAK634
HVIN	RAK634
Operating Voltage	DC 9-36V
Technical Specification of Wi-Fi 802.11 b/g/n	
Operating Frequency	2412 - 2462 MHz for 802.11b/g/n(HT20) 2422 - 2452 MHz for 802.11n(HT40)
Type of Modulation	DSSS(DBPSK/DQPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM)
Data Rate	1/2/5.5/11 Mbps for 802.11b 6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0 ~ MCS7 for 802.11n
Channel Number	11 channels for 802.11b/g/n(HT20) 7 channels for 802.11n(HT40)
Channel Separation	5 MHz
Number of Antenna:	2
Gain of Antenna:	2dBi

Table 3: RF Channel and Frequency of Wi-Fi 802.11 b/g/n

RF Channel	802.11 b/g/n(HT20)	802.11 n(HT40)
	Frequency (MHz)	Frequency (MHz)
01	2412	/
02	2417	/
03	2422	2422
04	2427	2427
05	2432	2432
06	2437	2437
07	2442	2442
08	2447	2447
09	2452	2452
10	2457	/
11	2462	/

3.3 Independent Operation Modes

The basic operation modes are:

A. On

1. Wi-Fi transmitting mode

- 1) Low Channel
- 2) Middle Channel
- 3) High Channel

B. On, Co-Located transmitting mode (Wi-Fi + Lora + LTE)

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|----------------------------------|------------------|
| - Application Form | - Photo Document |
| - Block Diagram | - Schematics |
| - FCC/IC Label and Location Info | - User Manual |
| - Operation Description | |

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all test were applied on model RAK634 with new PCB layout antenna.

This product is powered by DC 9-36V via Solar Battery Kits.

Table 4: List of Frequencies under Test, 802.11b/g/n

802.11b/g/n-HT20			
Test Channel	Channel Number	Frequency (MHz)	Remark
Low	1	2412	802.11b: 1Mbps 802.11g: 6Mbps 802.11n-HT20: MCS0
Middle	6	2437	
High	11	2462	
802.11n-HT40			
Test Channel	Channel number	Frequency (MHz)	Remark
Low	3	2422	802.11n-HT40: MCS0
Middle	6	2437	
High	9	2452	

Note: All test modes have been pre-scanning test and only the worst case of test mode.

4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Notebook	DELL	Latitude 3400	N/A
Mouse	DELL	MS11-T	N/A
Storage Battery	Camel	L2400 6-QW-60	N/A

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 30MHz)

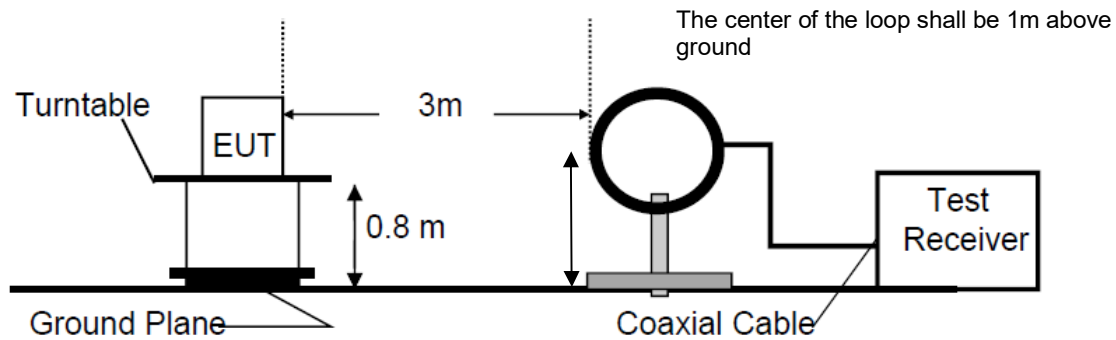


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

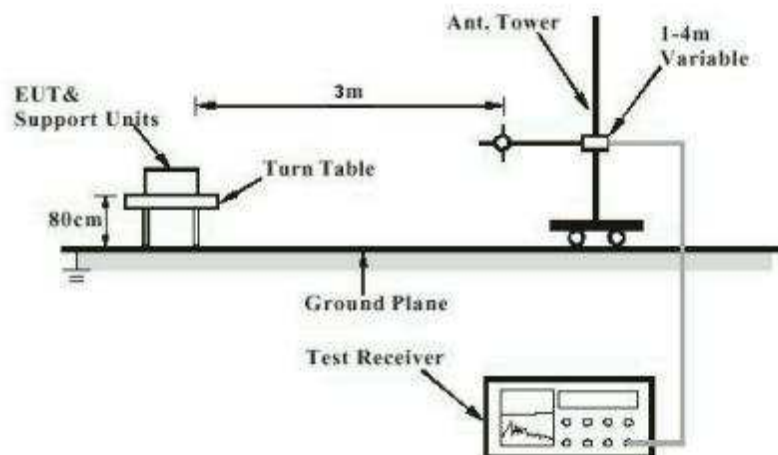
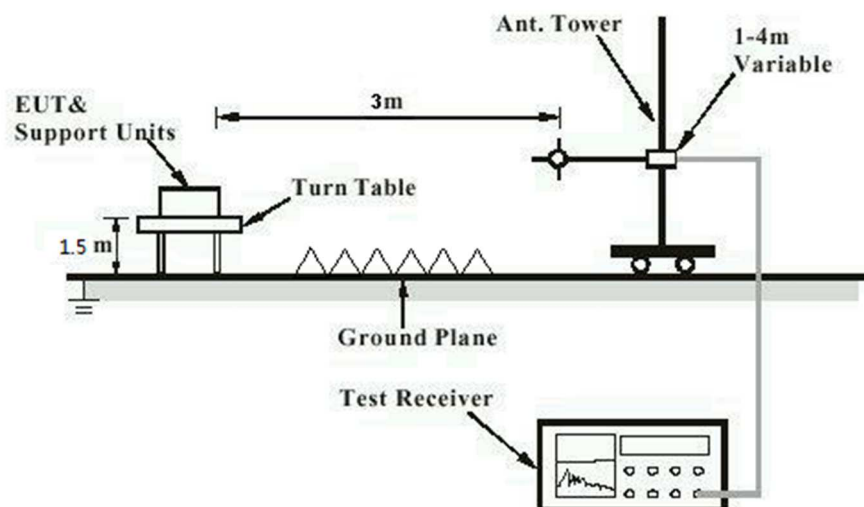


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Pass****Test Specification**

Test standard	:	FCC Part 15.247(b)(4) and Part 15.203
Limit	:	the use of antennas with directional gains that do not exceed 6 dBi

According to the manufacturer declared, the EUT has two integral PCB antennas, the maximum directional gain of antenna is 2 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 Radiated Spurious Emission

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 3.3 & 5.5
Basic standard	: ANSI C63.10: 2013
Limits	: Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Table 4 & Table 5
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2024-08-12 – 2024-09-30
Input voltage	: DC 12V
Operation mode	: A
Test channel	: Low / Mid / High
Ambient temperature	: Refer to test data
Relative humidity	: Refer to test data
Atmospheric pressure	: Refer to test data

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix A.

5.1.3 Co-Located Radiated Spurious Emissions

RESULT:**Pass****Test Specification**

Test standard	:	CFR47 FCC Part 15: Subpart C Section 15.247
		CFR47 FCC Part 22
		CFR47 FCC Part 24
		CFR47 FCC Part 27
		RSS-247 Issue 3
		RSS-130 Issue 2
		RSS-132 Issue 3
		RSS-133 Issue 6
Basic standard	:	RSS-139 Issue 3
		ANSI C63.10 & ANSI C63.26
Limit	:	KDB 996369 D04
		The emissions not exceed the highest limit.
Kind of test site	:	3m Semi-anechoic Chamber

Test Setup

Date of testing	:	2024-08-12 – 2024-09-30
Input voltage	:	DC 12V
Operation mode	:	B
Earthing	:	Not Connected
Ambient temperature	:	Refer to test data
Relative humidity	:	Refer to test data
Atmospheric pressure	:	Refer to test data

Note: The test plots of Co-located radiated spurious emissions beyond the limit are the fundamental radio frequency of Lora, Wi-Fi and LTE.

For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix A.

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Appendix A: Test Results of Radiated Testing

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APPENDIX A.1: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS FOR 2.4G WIFI	2
APPENDIX A.2: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS FOR LORA + 2.4G WIFI + LTE.	82

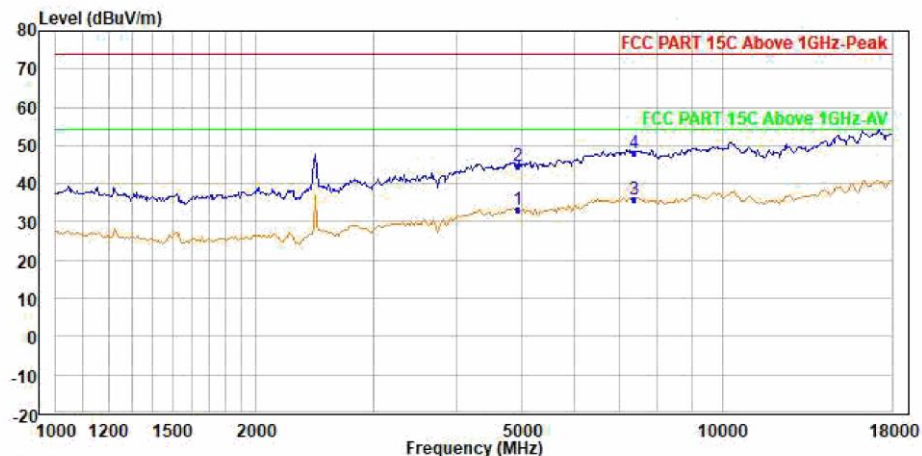
Note 1: Testing was carried out within frequency range 9 kHz to the tenth harmonics. The measurement results below 30MHz and above 18GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

Note 2: 2.4G WIFI configuration was test into the HOST, hence the model number in below plots is RAK7267.

Appendix A.1: Test Results of Radiated Spurious Emissions for 2.4G WIFI



Shenzhen UnionTrust Quality and Technology Co., Ltd.



Trace: 1
Condition : 3m Horizontal
Temp.(C)/Hum.(%) : 24.4(C)/60.4(%)
Press : 99.7kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2.4G_B_2462
Remark :

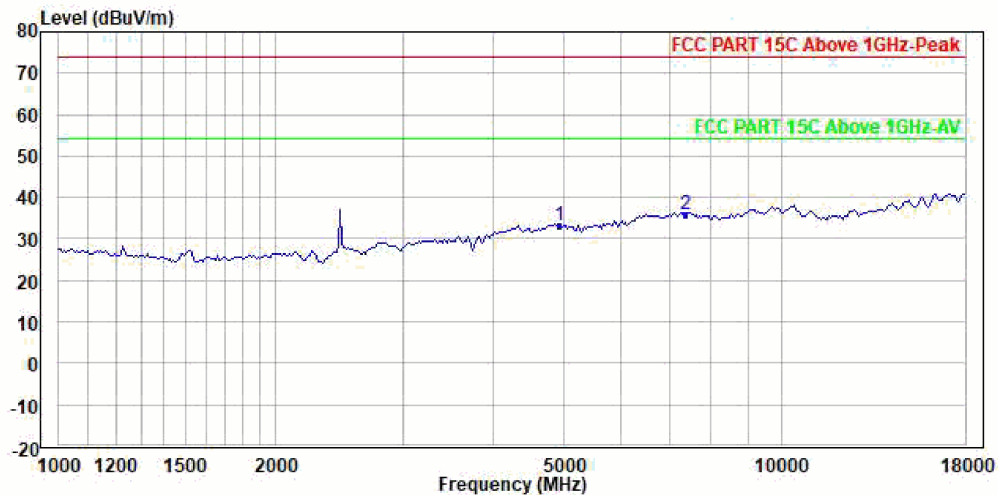
	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4924.000	33.31	35.34	34.48	0.00	9.37	45.88	54.00	-20.69	Average
2	4924.000	44.68	46.71	34.48	0.00	9.37	45.88	74.00	-29.32	Peak
3 PP	7386.000	35.85	34.54	36.50	0.00	10.39	45.58	54.00	-18.15	Average
4 PK	7386.000	48.17	46.86	36.50	0.00	10.39	45.58	74.00	-25.83	Peak

Condition: 3m
EUT :
Mode :
Note :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dbuv/m	dbuv	dB/m	dB	dB	dB	dbuv/m	dB	
1	4924.000	33.31	35.34	34.48	0.00	9.37	45.88	54.00	-20.69	Average
2	4924.000	44.68	46.71	34.48	0.00	9.37	45.88	74.00	-29.32	Peak
3 PP	7386.000	35.85	34.54	36.50	0.00	10.39	45.58	54.00	-18.15	Average
4 PK	7386.000	48.17	46.86	36.50	0.00	10.39	45.58	74.00	-25.83	Peak



Shenzhen UnionTrust Quality and Technology Co., Ltd.



Trace: 1
Condition : 3m Horizontal
Temp.(C)/Hum.(%): 24.4(C)/60.4(%)
Press : 99.7kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2.4G_B_2462
Remark :

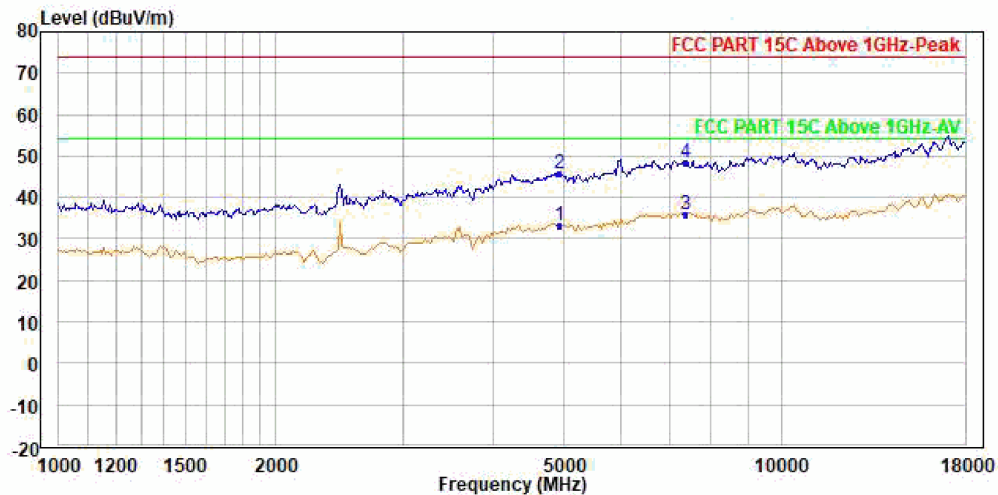
	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4924.000	33.31	35.34	34.48	0.00	9.37	45.88	54.00	-20.69	Average
2 PP	7386.000	35.85	34.54	36.50	0.00	10.39	45.58	54.00	-18.15	Average

Condition: 3m
EUT :
Mode :
Note :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dbuv/m	dbuv	dB/m	dB	dB	dB	dbuv/m	dB	
1	4924.000	33.31	35.34	34.48	0.00	9.37	45.88	54.00	-20.69	Average
2 PP	7386.000	35.85	34.54	36.50	0.00	10.39	45.58	54.00	-18.15	Average



Shenzhen UnionTrust Quality and Technology Co., Ltd.



Trace: 1
Condition : 3m Vertical
Temp.(C)/Hum.(%) : 24.4(C)/60.4(%)
Press : 99.7kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2.4G_B_2462
Remark :

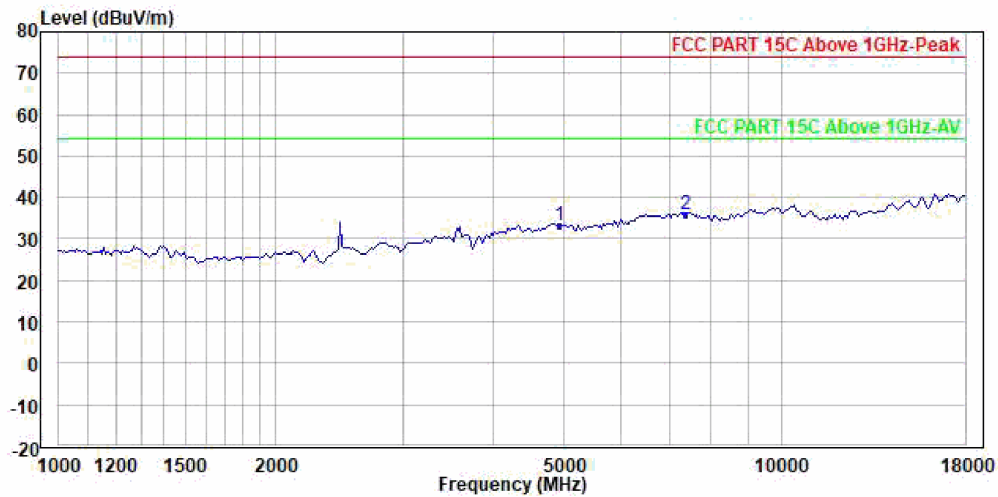
	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4924.000	33.33	35.36	34.48	0.00	9.37	45.88	54.00	-20.67	Average
2	4924.000	45.67	47.70	34.48	0.00	9.37	45.88	74.00	-28.33	Peak
3 PP	7386.000	35.83	34.52	36.50	0.00	10.39	45.58	54.00	-18.17	Average
4 PK	7386.000	48.53	47.22	36.50	0.00	10.39	45.58	74.00	-25.47	Peak

Condition: 3m
EUT :
Mode :
Note :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dbuv/m	dbuv	dB/m	dB	dB	dB	dbuv/m	dB	
1	4924.000	33.33	35.36	34.48	0.00	9.37	45.88	54.00	-20.67	Average
2	4924.000	45.67	47.70	34.48	0.00	9.37	45.88	74.00	-28.33	Peak
3 PP	7386.000	35.83	34.52	36.50	0.00	10.39	45.58	54.00	-18.17	Average
4 PK	7386.000	48.53	47.22	36.50	0.00	10.39	45.58	74.00	-25.47	Peak



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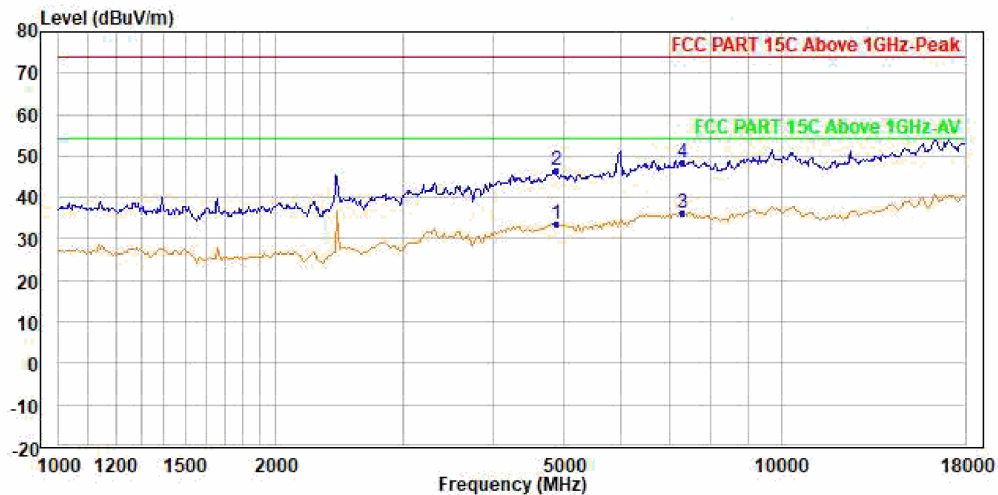


Condition : 3m Vertical
Temp.(C)/Hum.(%): 24.4(C)/60.4(%)
Press : 99.7kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2.4G_B_2462
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4924.000	33.33	35.36	34.48	0.00	9.37	45.88	54.00	-20.67	Average
2 PP	7386.000	35.83	34.52	36.50	0.00	10.39	45.58	54.00	-18.17	Average



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Trace: 1

Condition : 3m Vertical
Temp.(C)/Hum.(%): 24.4(C)/60.4(%)
Press : 99.7kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2.4G_B_2437
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4874.000	33.67	35.72	34.47	0.00	9.35	45.87	54.00	-20.33	Average
2	4874.000	46.48	48.53	34.47	0.00	9.35	45.87	74.00	-27.52	Peak
3 PP	7311.000	36.34	35.03	36.50	0.00	10.37	45.56	54.00	-17.66	Average
4 PK	7311.000	48.38	47.07	36.50	0.00	10.37	45.56	74.00	-25.62	Peak

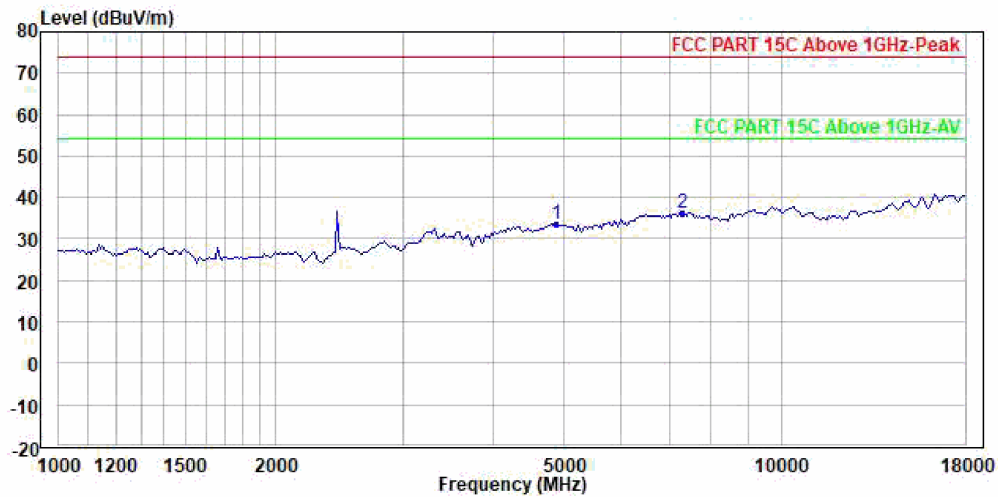
Condition: 3m

EUT :
Mode :
Note :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dbuv/m	dbuv	dB/m	dB	dB	dB	dbuv/m	dB	
1	4874.000	33.67	35.72	34.47	0.00	9.35	45.87	54.00	-20.33	Average
2	4874.000	46.48	48.53	34.47	0.00	9.35	45.87	74.00	-27.52	Peak
3 PP	7311.000	36.34	35.03	36.50	0.00	10.37	45.56	54.00	-17.66	Average
4 PK	7311.000	48.38	47.07	36.50	0.00	10.37	45.56	74.00	-25.62	Peak



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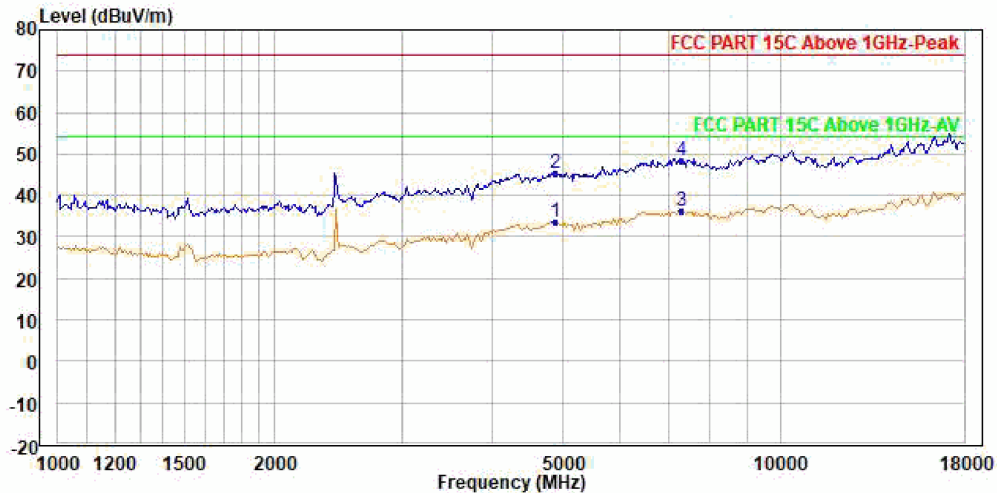


Condition : 3m Vertical
Temp.(C)/Hum.(%): 24.4(C)/60.4(%)
Press : 99.7kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2.4G_B_2437
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4874.000	33.67	35.72	34.47	0.00	9.35	45.87	54.00	-20.33	Average
2 PP	7311.000	36.34	35.03	36.50	0.00	10.37	45.56	54.00	-17.66	Average



Shenzhen UnionTrust Quality and Technology Co., Ltd.



Trace: 1

Condition : 3m Horizontal
Temp.(C)/Hum.(%): 24.4(C)/60.4(%)
Press : 99.7kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2.4G_B_2437
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4874.000	33.48	35.53	34.47	0.00	9.35	45.87	54.00	-20.52	Average
2	4874.000	45.46	47.51	34.47	0.00	9.35	45.87	74.00	-28.54	Peak
3 PP	7311.000	36.16	34.85	36.50	0.00	10.37	45.56	54.00	-17.84	Average
4 PK	7311.000	48.27	46.96	36.50	0.00	10.37	45.56	74.00	-25.73	Peak

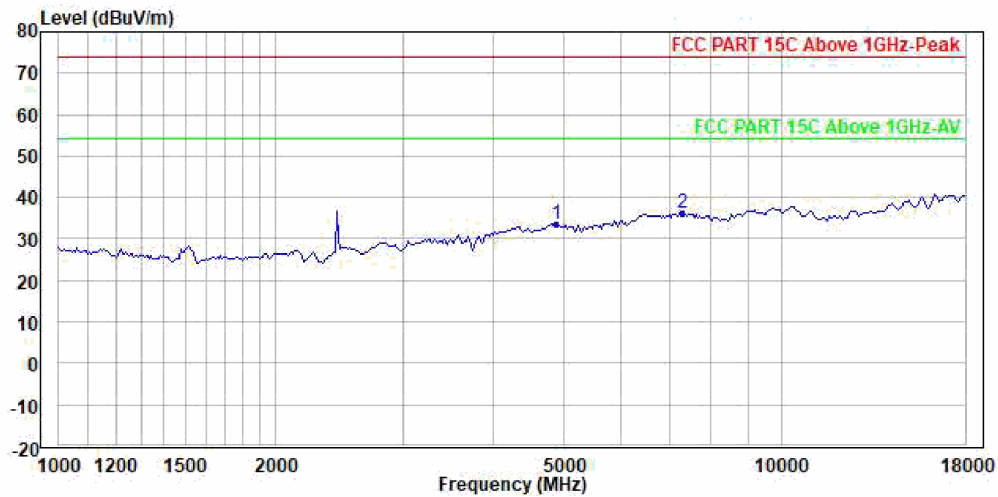
Condition: 3m

EUT :
Mode :
Note :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dbuv/m	dbuv	dB/m	dB	dB	dB	dbuv/m	dB	
1	4874.000	33.48	35.53	34.47	0.00	9.35	45.87	54.00	-20.52	Average
2	4874.000	45.46	47.51	34.47	0.00	9.35	45.87	74.00	-28.54	Peak
3 PP	7311.000	36.16	34.85	36.50	0.00	10.37	45.56	54.00	-17.84	Average
4 PK	7311.000	48.27	46.96	36.50	0.00	10.37	45.56	74.00	-25.73	Peak



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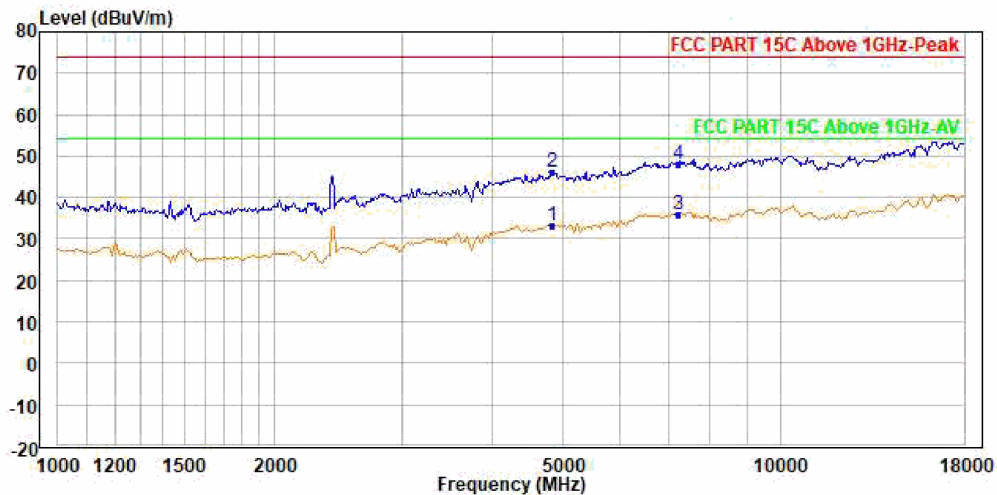


Condition : 3m Horizontal
Temp.(C)/Hum.(%): 24.4(C)/60.4(%)
Press : 99.7kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2.4G_B_2437
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4874.000	33.48	35.53	34.47	0.00	9.35	45.87	54.00	-20.52	Average
2 PP	7311.000	36.16	34.85	36.50	0.00	10.37	45.56	54.00	-17.84	Average



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Trace: 1

Condition : 3m Horizontal
Temp.(C)/Hum.(%): 24.4(C)/60.4(%)
Press : 99.7kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2.4G_B_2412
Remark :

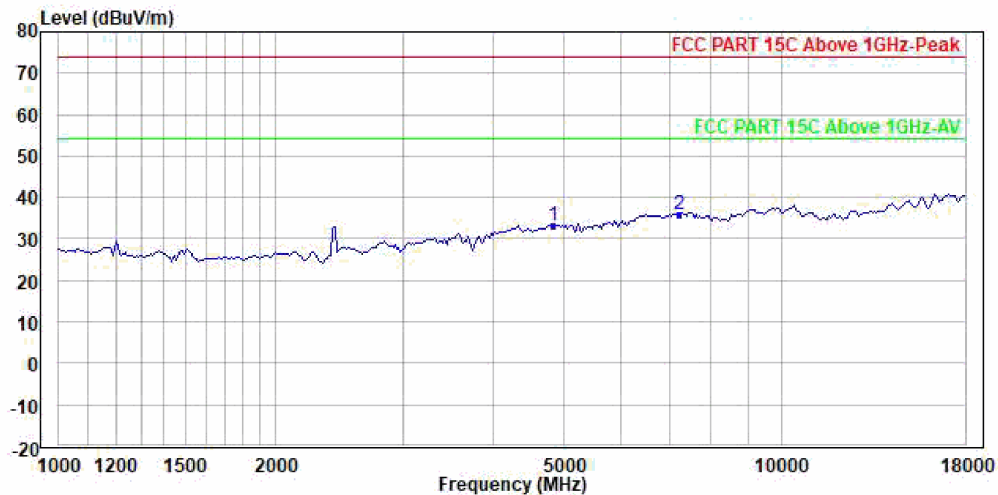
	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4824.000	33.33	35.40	34.46	0.00	9.33	45.86	54.00	-20.67	Average
2	4824.000	46.13	48.20	34.46	0.00	9.33	45.86	74.00	-27.87	Peak
3 PP	7236.000	36.08	34.78	36.50	0.00	10.35	45.55	54.00	-17.92	Average
4 PK	7236.000	47.91	46.61	36.50	0.00	10.35	45.55	74.00	-26.09	Peak

Condition: 3m
EUT :
Mode :
Note :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dbuv/m	dbuv	dB/m	dB	dB	dB	dbuv/m	dB	
1	4824.000	33.33	35.40	34.46	0.00	9.33	45.86	54.00	-20.67	Average
2	4824.000	46.13	48.20	34.46	0.00	9.33	45.86	74.00	-27.87	Peak
3 PP	7236.000	36.08	34.78	36.50	0.00	10.35	45.55	54.00	-17.92	Average
4 PK	7236.000	47.91	46.61	36.50	0.00	10.35	45.55	74.00	-26.09	Peak



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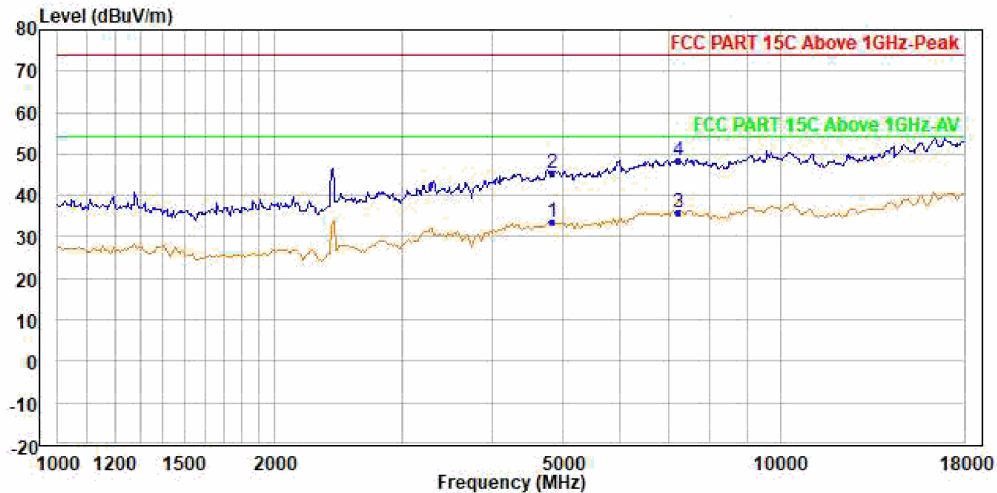


Condition : 3m Horizontal
Temp.(C)/Hum.(%): 24.4(C)/60.4(%)
Press : 99.7kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2.4G_B_2412
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4824.000	33.33	35.40	34.46	0.00	9.33	45.86	54.00	-20.67	Average
2 PP	7236.000	36.08	34.78	36.50	0.00	10.35	45.55	54.00	-17.92	Average



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Trace: 1
Condition : 3m Vertical
Temp.(C)/Hum.(%): 24.4(C)/60.4(%)
Press : 99.7kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2.4G_B_2412
Remark :

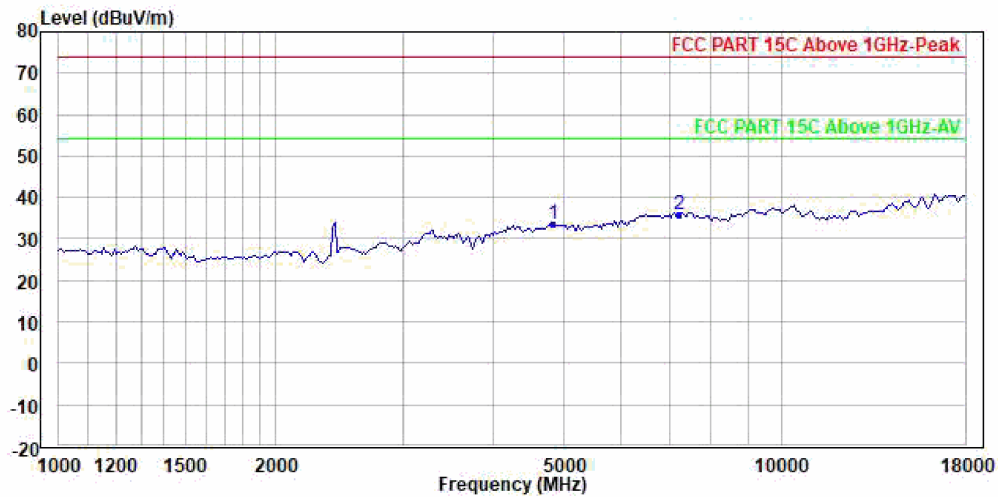
	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4824.000	33.54	35.61	34.46	0.00	9.33	45.86	54.00	-20.46	Average
2	4824.000	45.52	47.59	34.46	0.00	9.33	45.86	74.00	-28.48	Peak
3 PP	7236.000	36.05	34.75	36.50	0.00	10.35	45.55	54.00	-17.95	Average
4 PK	7236.000	48.28	46.98	36.50	0.00	10.35	45.55	74.00	-25.72	Peak

Condition: 3m
EUT :
Mode :
Note :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dbuv/m	dbuv	dB/m	dB	dB	dB	dbuv/m	dB	
1	4824.000	33.54	35.61	34.46	0.00	9.33	45.86	54.00	-20.46	Average
2	4824.000	45.52	47.59	34.46	0.00	9.33	45.86	74.00	-28.48	Peak
3 PP	7236.000	36.05	34.75	36.50	0.00	10.35	45.55	54.00	-17.95	Average
4 PK	7236.000	48.28	46.98	36.50	0.00	10.35	45.55	74.00	-25.72	Peak



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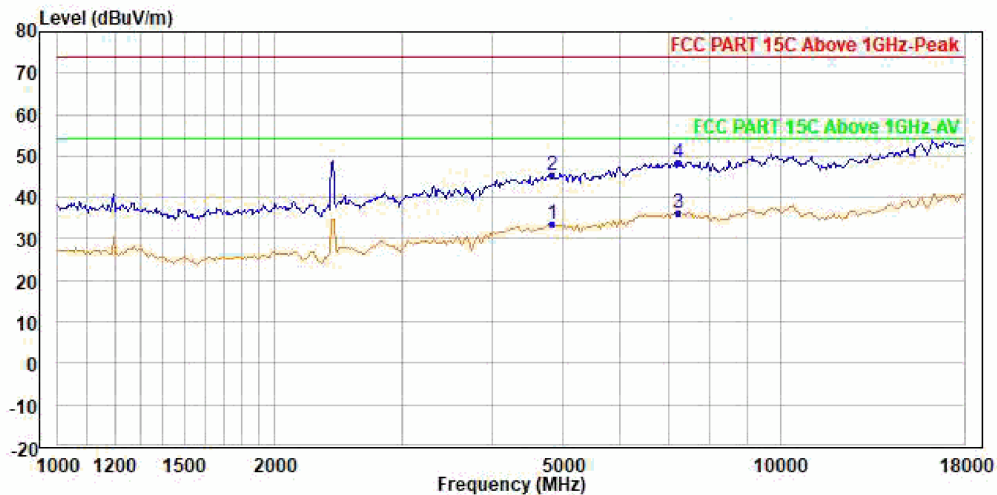


Condition : 3m Vertical
Temp.(C)/Hum.(%): 24.4(C)/60.4(%)
Press : 99.7kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2.4G_B_2412
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4824.000	33.54	35.61	34.46	0.00	9.33	45.86	54.00	-20.46	Average
2 PP	7236.000	36.05	34.75	36.50	0.00	10.35	45.55	54.00	-17.95	Average



Shenzhen UnionTrust Quality and Technology Co., Ltd.



Trace: 1
Condition : 3m Vertical
Temp.(C)/Hum.(%): 24.4(C)/60.4(%)
Press : 99.7kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2.4G_G_2412
Remark :

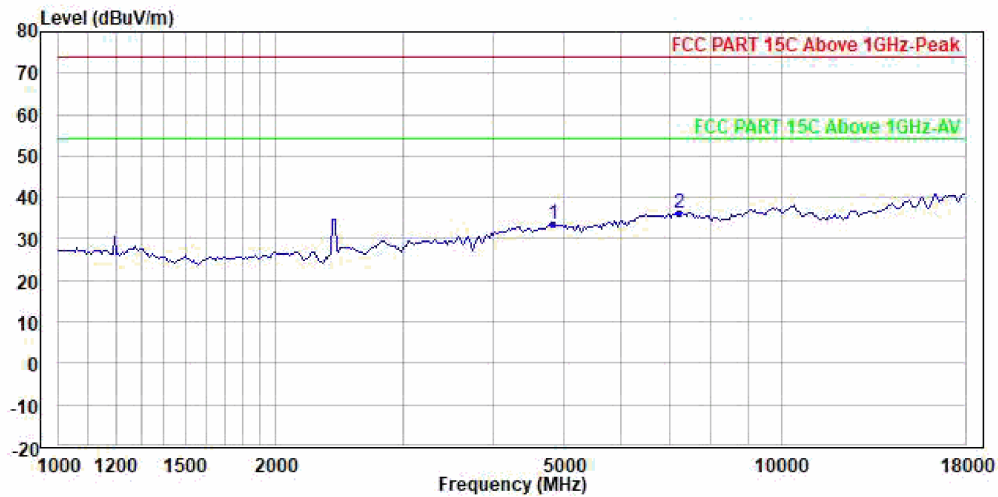
	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4824.000	33.59	35.66	34.46	0.00	9.33	45.86	54.00	-20.41	Average
2	4824.000	45.54	47.61	34.46	0.00	9.33	45.86	74.00	-28.46	Peak
3 PP	7236.000	36.10	34.80	36.50	0.00	10.35	45.55	54.00	-17.90	Average
4 PK	7236.000	48.33	47.03	36.50	0.00	10.35	45.55	74.00	-25.67	Peak

Condition: 3m
EUT :
Mode :
Note :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dbuv/m	dbuv	dB/m	dB	dB	dB	dbuv/m	dB	
1	4824.000	33.59	35.66	34.46	0.00	9.33	45.86	54.00	-20.41	Average
2	4824.000	45.54	47.61	34.46	0.00	9.33	45.86	74.00	-28.46	Peak
3 PP	7236.000	36.10	34.80	36.50	0.00	10.35	45.55	54.00	-17.90	Average
4 PK	7236.000	48.33	47.03	36.50	0.00	10.35	45.55	74.00	-25.67	Peak

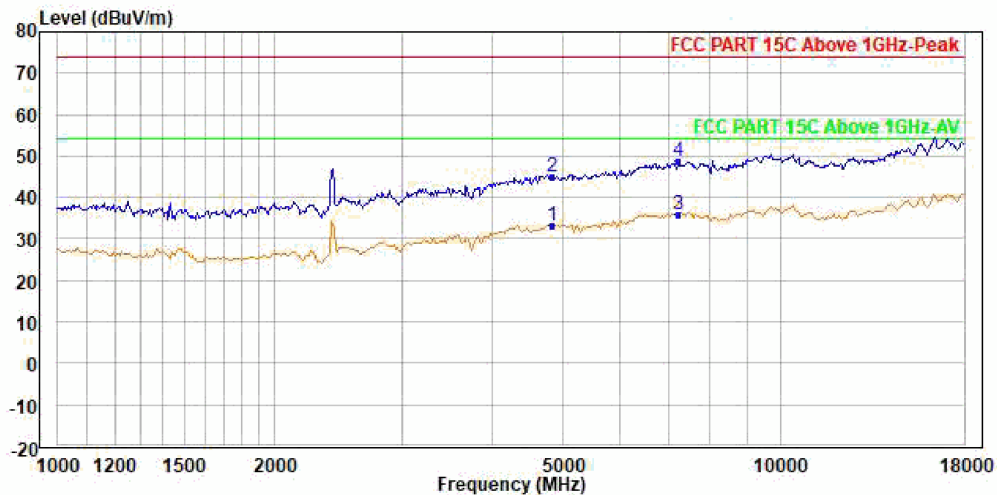


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Condition : 3m Vertical
Temp.(C)/Hum.(%): 24.4(C)/60.4(%)
Press : 99.7kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2.4G_G_2412
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4824.000	33.59	35.66	34.46	0.00	9.33	45.86	54.00	-20.41	Average
2 PP	7236.000	36.10	34.80	36.50	0.00	10.35	45.55	54.00	-17.90	Average



Trace: 1
Condition : 3m Horizontal
Temp.(C)/Hum.(%): 24.4(C)/60.4(%)
Press : 99.7kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2.4G_G_2412
Remark :

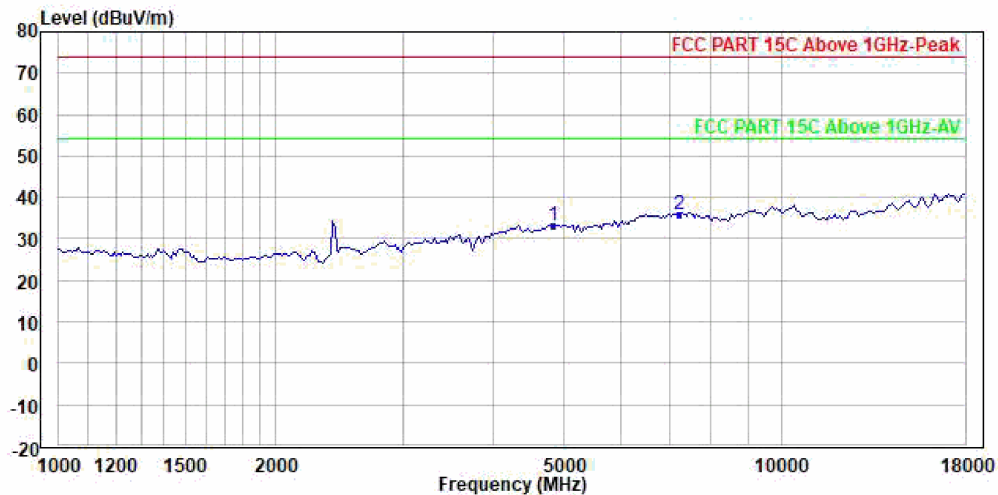
	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4824.000	33.37	35.44	34.46	0.00	9.33	45.86	54.00	-20.63	Average
2	4824.000	45.01	47.08	34.46	0.00	9.33	45.86	74.00	-28.99	Peak
3 PP	7236.000	36.05	34.75	36.50	0.00	10.35	45.55	54.00	-17.95	Average
4 PK	7236.000	48.79	47.49	36.50	0.00	10.35	45.55	74.00	-25.21	Peak

Condition: 3m
EUT :
Mode :
Note :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dbuv/m	dbuv	dB/m	dB	dB	dB	dbuv/m	dB	
1	4824.000	33.37	35.44	34.46	0.00	9.33	45.86	54.00	-20.63	Average
2	4824.000	45.01	47.08	34.46	0.00	9.33	45.86	74.00	-28.99	Peak
3 PP	7236.000	36.05	34.75	36.50	0.00	10.35	45.55	54.00	-17.95	Average
4 PK	7236.000	48.79	47.49	36.50	0.00	10.35	45.55	74.00	-25.21	Peak



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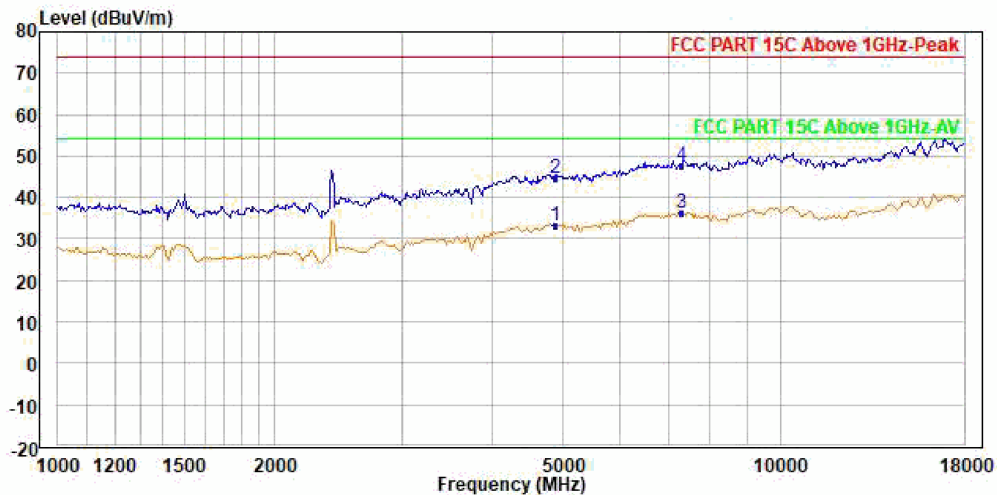


Condition : 3m Horizontal
Temp.(C)/Hum.(%): 24.4(C)/60.4(%)
Press : 99.7kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2.4G_G_2412
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4824.000	33.37	35.44	34.46	0.00	9.33	45.86	54.00	-20.63	Average
2 PP	7236.000	36.05	34.75	36.50	0.00	10.35	45.55	54.00	-17.95	Average



Shenzhen UnionTrust Quality and Technology Co., Ltd.



Trace: 1
Condition : 3m Horizontal
Temp.(C)/Hum.(%): 24.4(C)/60.4(%)
Press : 99.7kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2.4G_G_2437
Remark :

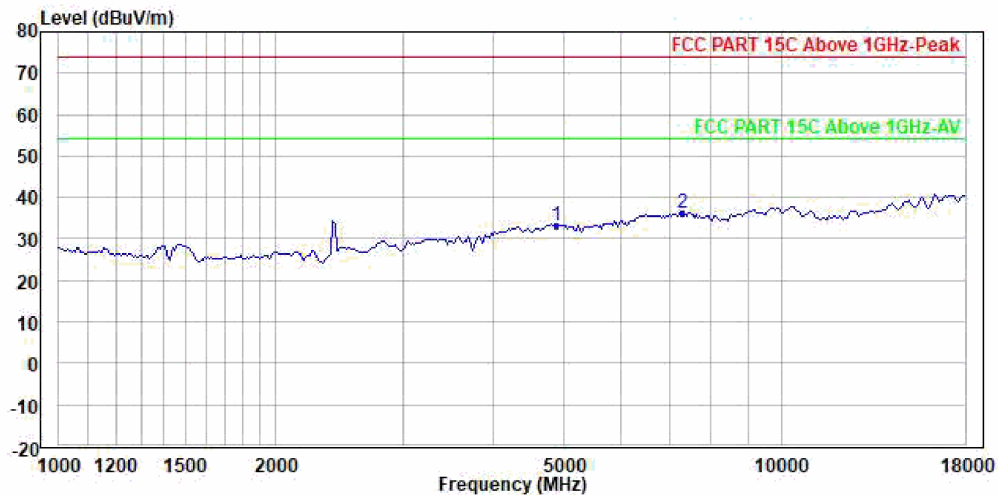
	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4874.000	33.34	35.39	34.47	0.00	9.35	45.87	54.00	-20.66	Average
2	4874.000	44.65	46.70	34.47	0.00	9.35	45.87	74.00	-29.35	Peak
3 PP	7311.000	36.32	35.01	36.50	0.00	10.37	45.56	54.00	-17.68	Average
4 PK	7311.000	47.69	46.38	36.50	0.00	10.37	45.56	74.00	-26.31	Peak

Condition: 3m
EUT :
Mode :
Note :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dbuv/m	dbuv	dB/m	dB	dB	dB	dbuv/m	dB	
1	4874.000	33.34	35.39	34.47	0.00	9.35	45.87	54.00	-20.66	Average
2	4874.000	44.65	46.70	34.47	0.00	9.35	45.87	74.00	-29.35	Peak
3 PP	7311.000	36.32	35.01	36.50	0.00	10.37	45.56	54.00	-17.68	Average
4 PK	7311.000	47.69	46.38	36.50	0.00	10.37	45.56	74.00	-26.31	Peak



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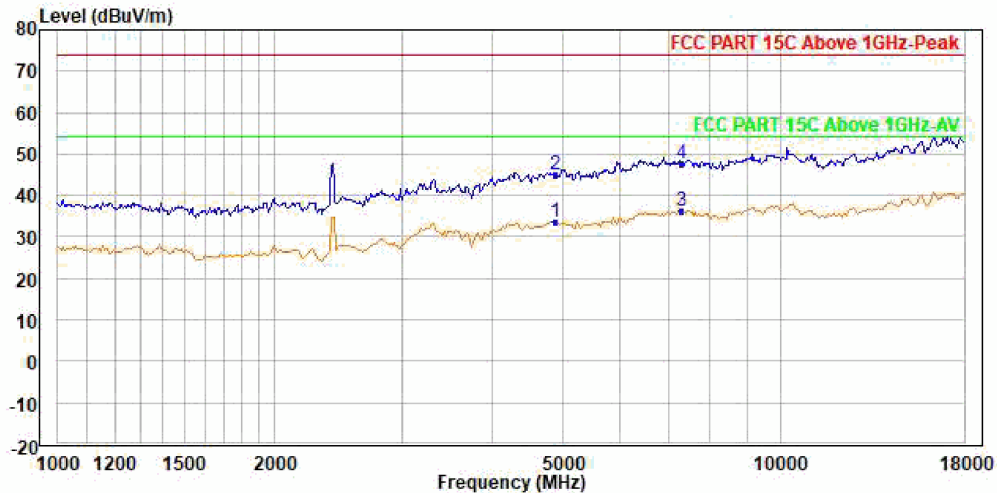


Condition : 3m Horizontal
Temp.(C)/Hum.(%): 24.4(C)/60.4(%)
Press : 99.7kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2.4G_G_2437
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4874.000	33.34	35.39	34.47	0.00	9.35	45.87	54.00	-20.66	Average
2 PP	7311.000	36.32	35.01	36.50	0.00	10.37	45.56	54.00	-17.68	Average



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Trace: 1
Condition : 3m Vertical
Temp.(C)/Hum.(%): 24.4(C)/60.4(%)
Press : 99.7kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2.4G_G_2437
Remark :

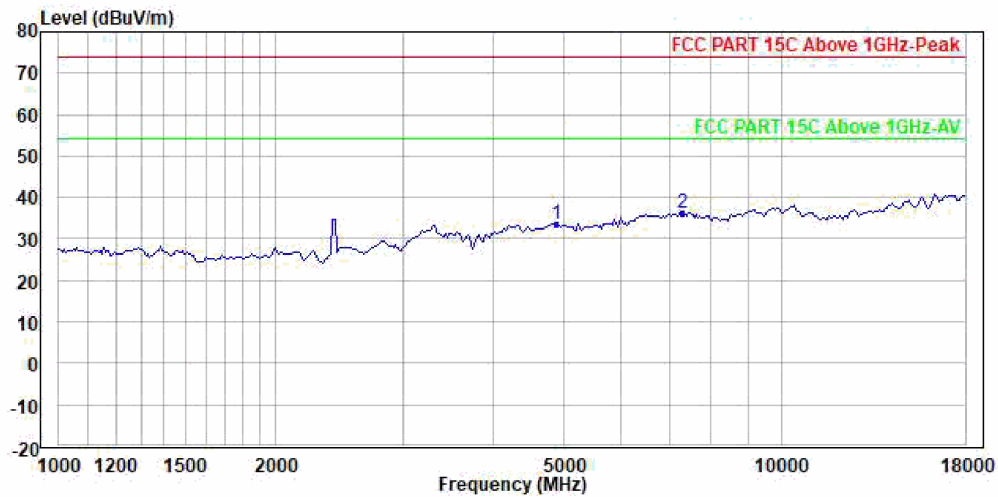
	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4874.000	33.48	35.53	34.47	0.00	9.35	45.87	54.00	-20.52	Average
2	4874.000	45.05	47.10	34.47	0.00	9.35	45.87	74.00	-28.95	Peak
3 PP	7311.000	36.24	34.93	36.50	0.00	10.37	45.56	54.00	-17.76	Average
4 PK	7311.000	47.67	46.36	36.50	0.00	10.37	45.56	74.00	-26.33	Peak

Condition: 3m
EUT :
Mode :
Note :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dbuv/m	dbuv	dB/m	dB	dB	dB	dbuv/m	dB	
1	4874.000	33.48	35.53	34.47	0.00	9.35	45.87	54.00	-20.52	Average
2	4874.000	45.05	47.10	34.47	0.00	9.35	45.87	74.00	-28.95	Peak
3 PP	7311.000	36.24	34.93	36.50	0.00	10.37	45.56	54.00	-17.76	Average
4 PK	7311.000	47.67	46.36	36.50	0.00	10.37	45.56	74.00	-26.33	Peak



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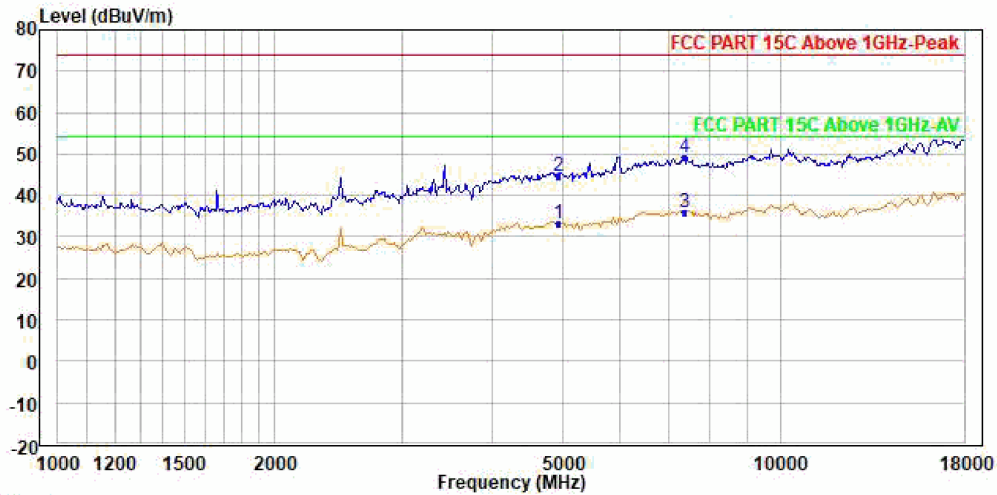


Condition : 3m Vertical
Temp.(C)/Hum.(%): 24.4(C)/60.4(%)
Press : 99.7kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2.4G_G_2437
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4874.000	33.48	35.53	34.47	0.00	9.35	45.87	54.00	-20.52	Average
2 PP	7311.000	36.24	34.93	36.50	0.00	10.37	45.56	54.00	-17.76	Average



Shenzhen UnionTrust Quality and Technology Co., Ltd.



Trace: 1
Condition : 3m Vertical
Temp.(C)/Hum.(%): 24.4(C)/60.4(%)
Press : 99.7kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2.4G_G_2462
Remark :

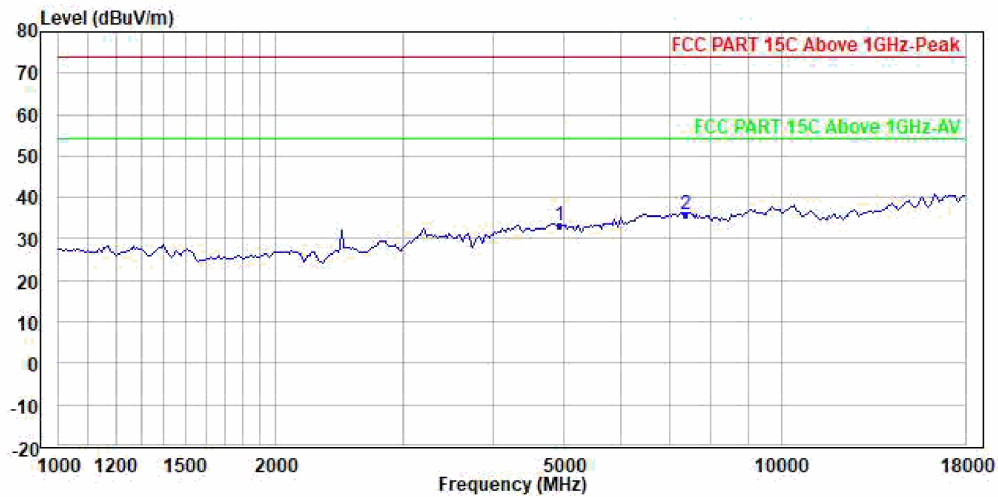
	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4924.000	33.13	35.16	34.48	0.00	9.37	45.88	54.00	-20.87	Average
2	4924.000	44.65	46.68	34.48	0.00	9.37	45.88	74.00	-29.35	Peak
3 PP	7386.000	35.80	34.49	36.50	0.00	10.39	45.58	54.00	-18.20	Average
4 PK	7386.000	49.10	47.79	36.50	0.00	10.39	45.58	74.00	-24.90	Peak

Condition: 3m
EUT :
Mode :
Note :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dbuv/m	dbuv	dB/m	dB	dB	dB	dbuv/m	dB	
1	4924.000	33.13	35.16	34.48	0.00	9.37	45.88	54.00	-20.87	Average
2	4924.000	44.65	46.68	34.48	0.00	9.37	45.88	74.00	-29.35	Peak
3 PP	7386.000	35.80	34.49	36.50	0.00	10.39	45.58	54.00	-18.20	Average
4 PK	7386.000	49.10	47.79	36.50	0.00	10.39	45.58	74.00	-24.90	Peak



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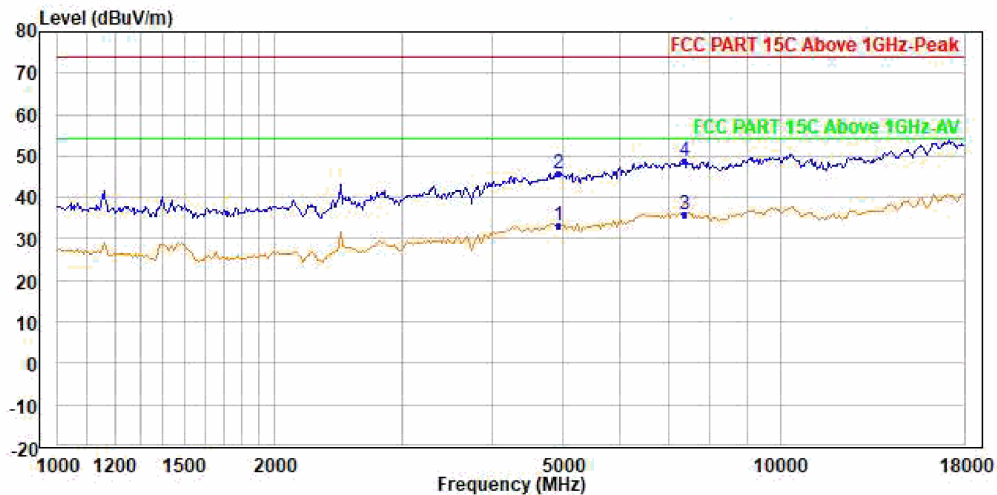


Condition : 3m Vertical
Temp.(C)/Hum.(%): 24.4(C)/60.4(%)
Press : 99.7kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2.4G_G_2462
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4924.000	33.13	35.16	34.48	0.00	9.37	45.88	54.00	-20.87	Average
2 PP	7386.000	35.80	34.49	36.50	0.00	10.39	45.58	54.00	-18.20	Average



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Trace: 1
Condition : 3m Horizontal
Temp.(C)/Hum.(%): 24.4(C)/60.4(%)
Press : 99.7kpa
Product : WisGate Soho Pro
Model No. : RAK7267
Power Rating : AC 120V/60Hz
Test Engineer : Jackson
Test Mode : 2.4G_G_2462
Remark :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dBuV/m	dBuV	dB/m	dB	dB	dB	dBuV/m	dB	
1	4924.000	33.16	35.19	34.48	0.00	9.37	45.88	54.00	-20.84	Average
2	4924.000	45.64	47.67	34.48	0.00	9.37	45.88	74.00	-28.36	Peak
3 PP	7386.000	35.77	34.46	36.50	0.00	10.39	45.58	54.00	-18.23	Average
4 PK	7386.000	48.82	47.51	36.50	0.00	10.39	45.58	74.00	-25.18	Peak

Condition: 3m
EUT :
Mode :
Note :

	Freq	Level	Read Level	Ant Factor	Aux Factor	Cable Loss	Preamp Factor	Limit Line	Over Limit	Remark
	MHz	dbuv/m	dbuv	dB/m	dB	dB	dB	dbuv/m	dB	
1	4924.000	33.16	35.19	34.48	0.00	9.37	45.88	54.00	-20.84	Average
2	4924.000	45.64	47.67	34.48	0.00	9.37	45.88	74.00	-28.36	Peak
3 PP	7386.000	35.77	34.46	36.50	0.00	10.39	45.58	54.00	-18.23	Average
4 PK	7386.000	48.82	47.51	36.50	0.00	10.39	45.58	74.00	-25.18	Peak