

Report No.: SZCR210402058802

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1 Cover Page

RF MPE REPORT

Application No.: SZCR2104020588AT(SHEM2103002246CR)

FCC ID: 2AWAS-910-00027 Applicant: Mavenir Systems, Inc.

Address of Applicant: 1700 International Parkway, Ste 200, Richardson, Texas 75081 USA

Manufacturer: Mavenir Systems, Inc.

Address of Manufacturer: 1700 International Parkway, Ste 200, Richardson, Texas 75081 USA

Factory: Sunwave Communications Co., Ltd.

Address of Factory: 581 Huoju Avenue, Binjiang District, Hangzhou, P.R.China Zip: 310053

Equipment Under Test (EUT):

EUT Name: Remote Radio Unit **Model No.:** DRRU-R3184848

Standard(s): FCC Rules 47 CFR §2.1091

KDB447498 D01 General RF Exposure Guidance v06

Date of Receipt: 2021-03-03

Date of Test: 2021-03-05 to 2021-04-07

Date of Issue: 2021-04-15

Test Result: Pass*

Keny Xu EMC Laboratory Manager



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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Revision Record											
Version	Description	Date	Remark								
00	Original	2021-04-15	/								

Authorized for issue by:	
	Brix Chen
	Bill Chen / Project Engineer
	Eric Fu
	Eric Fu / Reviewer



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3 General Information

3.1 General Description of E.U.T.

Power supply:	DC 48V
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3.2 Technical Specifications

Frequency Band:	Downlink 3550MHz to 3700MHz
Modulation Type:	QPSK, 16QAM, 64QAM, 256QAM
Channel Bandwidth:	Single carrier: 5MHz, 10MHz, 15MHz, 20MHz; Multi-carrier enabled, up to 40MHz. Detailed Multi-carrier combination please refer to clause 4.2
System Gain:	37dB
MIMO:	2T2R MIMO or 4T4R MIMO
Power Control Method:	ALC
Antenna Gain:	6dBi (Provided by manufacturer)

Note:

The antenna gain value is provided by the customer. The test lab will not be responsible for wrong test result due to incorrect information about antenna gain values.



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3.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China, 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

3.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006. IC#: 4620C.



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4 Test Standards and Limits

4.1 FCC Radiofrequency radiation exposure limits:

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)							
Limits for General I	Limits for General Population/Uncontrolled Exposure										
0.3-1.34	614	1.63	*(100)	30							
1.34-30	824/f	2.19/f	*(180/f2)	30							
30-300	27.5	0.073	0.2	30							
300-1500	/	/	f/1500	30							
1500-100,000	/	/	1.0	30							

Note: LTE B48 is 1mW/cm².



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5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report SZCR210402058801.

LTE BAND 48

2 Carrie	2 Carriers contiguous											
BW Arrang Frequer	Frequency	Modulatio n	RB Allo		4x4 MIMO Total Conducted	Antenna Gain	EIRP (dBm)	E.I.R.P Limit				
е			Size	Offset	Power (dBm)	dBi	(32)	(mW)				
		QPSK	25/100	0	41.45	6.00	47.45	55590.43				
	LCH	16QAM	25/100	0	42.01	6.00	48.01	63241.19				
	LOIT	64QAM	25/100	0	41.92	6.00	47.92	61944.11				
		256QAM	25/100	0	41.49	6.00	47.49	56104.80				
		QPSK	25/100	0	41.77	6.00	47.77	59841.16				
5 + 20	MCH	16QAM	25/100	0	41.64	6.00	47.64	58076.44				
3 + 20	IVICIT	64QAM	25/100	0	41.39	6.00	47.39	54827.70				
		256QAM	25/100	0	41.63	6.00	47.63	57942.87				
	НСН	QPSK	25/100	0	41.6	6.00	47.6	57543.99				
		16QAM	25/100	0	41.84	6.00	47.84	60813.50				
		64QAM	25/100	0	41.53	6.00	47.53	56623.93				
		256QAM	25/100	0	41.75	6.00	47.75	59566.21				
		QPSK	100/25	0	41.44	6.00	47.44	55462.57				
	LCH	16QAM	100/25	0	41.71	6.00	47.71	59020.11				
	LCH	64QAM	100/25	0	41.46	6.00	47.46	55718.57				
		256QAM	100/25	0	41.78	6.00	47.78	59979.11				
		QPSK	100/25	0	41.81	6.00	47.81	60394.86				
20 + 5	MCH	16QAM	100/25	0	41.52	6.00	47.52	56493.70				
20 + 5	IVICH	64QAM	100/25	0	41.3	6.00	47.3	53703.18				
		256QAM	100/25	0	41.69	6.00	47.69	58748.94				
		QPSK	100/25	0	40.98	6.00	46.98	49888.45				
	ПСП	16QAM	100/25	0	40.93	6.00	46.93	49317.38				
	HCH	64QAM	100/25	0	41.41	6.00	47.41	55080.77				
		256QAM	100/25	0	41.42	6.00	47.42	55207.74				



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BW		Modulatio	RB Allo	cation	4x4 MIMO Total	Antenna	EIRP	E.I.R.P
Arrang	Frequency	n	Size	Size	Conducted	Gain	(dBm)	Limit
е		QPSK			Power (dBm)	dBi		(mW) 56623.93
			50/100	0	41.53	6.00	47.53	
	LCH	16QAM	50/100		41.18	6.00	47.18	52239.62
		64QAM	50/100	0	41.49	6.00	47.49	56104.80
		256QAM	50/100	0	41.34	6.00	47.34	54200.09
		QPSK	50/100	0	41.55	6.00	47.55	56885.29
10 + 20	MCH	16QAM	50/100	0	41.68	6.00	47.68	58613.82
		64QAM	50/100	0	41.74	6.00	47.74	59429.22
		256QAM	50/100	0	41.41	6.00	47.41	55080.77
		QPSK	50/100	0	41.09	6.00	47.09	51168.18
	HCH	16QAM	50/100	0	41.64	6.00	47.64	58076.44
		64QAM	50/100	0	41.19	6.00	47.19	52360.04
		256QAM	50/100	0	41.35	6.00	47.35	54325.03
		QPSK	100/50	0	42.43	6.00	48.43	69662.65
	LCH	16QAM	100/50	0	41.94	6.00	47.94	62230.03
	LOH	64QAM	100/50	0	42.23	6.00	48.23	66527.32
		256QAM	100/50	0	42.28	6.00	48.28	67297.67
	MCH	QPSK	100/50	0	41.61	6.00	47.61	57676.65
20 + 10		16QAM	100/50	0	41.91	6.00	47.91	61801.64
20 + 10		64QAM	100/50	0	41.94	6.00	47.94	62230.03
		256QAM	100/50	0	41.94	6.00	47.94	62230.03
		QPSK	100/50	0	41.42	6.00	47.42	55207.74
	HCH	16QAM	100/50	0	41.51	6.00	47.51	56363.77
	псп	64QAM	100/50	0	41.23	6.00	47.23	52844.53
		256QAM	100/50	0	41.69	6.00	47.69	58748.94
		QPSK	75/100	0	42.55	6.00	48.55	71614.34
	1.011	16QAM	75/100	0	42.43	6.00	48.43	69662.65
	LCH	64QAM	75/100	0	41.93	6.00	47.93	62086.90
		256QAM	75/100	0	42.29	6.00	48.29	67452.80
		QPSK	75/100	0	41.78	6.00	47.78	59979.11
45 00	146	16QAM	75/100	0	42.06	6.00	48.06	63973.48
15 + 20	MCH	64QAM	75/100	0	41.61	6.00	47.61	57676.65
		256QAM	75/100	0	42.34	6.00	48.34	68233.87
		QPSK	75/100	0	42.26	6.00	48.26	66988.46
		16QAM	75/100	0	42.36	6.00	48.36	68548.82
	HCH	64QAM	75/100	0	42.32	6.00	48.32	67920.36
		256QAM	75/100	0	41.75	6.00	47.75	59566.21



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BW		Modulatio	RB Allo	cation	4x4 MIMO Total	Antenna	EIRP	E.I.R.P
Arrang e	Frequency	n	Size	Size	Conducted Power (dBm)	Gain dBi	(dBm)	Limit (mW)
		QPSK	100/75	0	42.48	6.00	48.48	70469.31
	LCH	16QAM	100/75	0	42.51	6.00	48.51	70957.78
	LOIT	64QAM	100/75	0	42.07	6.00	48.07	64120.96
		256QAM	100/75	0	42.47	6.00	48.47	70307.23
		QPSK	100/75	0	42.24	6.00	48.24	66680.68
20 + 15	MCH	16QAM	100/75	0	41.93	6.00	47.93	62086.90
20 + 15	IVICH	64QAM	100/75	0	42.06	6.00	48.06	63973.48
		256QAM	100/75	0	42.04	6.00	48.04	63679.55
		QPSK	100/75	0	41.63	6.00	47.63	57942.87
	НСН	16QAM	100/75	0	42.07	6.00	48.07	64120.96
		64QAM	100/75	0	41.84	6.00	47.84	60813.50
		256QAM	100/75	0	41.81	6.00	47.81	60394.86
		QPSK	100/100	0	41.95	6.00	47.95	62373.48
	LCH	16QAM	100/100	0	42.19	6.00	48.19	65917.39
	LOIT	64QAM	100/100	0	42.09	6.00	48.09	64416.93
		256QAM	100/100	0	42.26	6.00	48.26	66988.46
		QPSK	100/100	0	42.18	6.00	48.18	65765.78
20 + 20	MCH	16QAM	100/100	0	42.44	6.00	48.44	69823.24
20 + 20	IVICH	64QAM	100/100	0	42.07	6.00	48.07	64120.96
		256QAM	100/100	0	42.19	6.00	48.19	65917.39
		QPSK	100/100	0	41.94	6.00	47.94	62230.03
	HCH	16QAM	100/100	0	41.74	6.00	47.74	59429.22
	11011	64QAM	100/100	0	41.55	6.00	47.55	56885.29
		256QAM	100/100	0	41.97	6.00	47.97	62661.39



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2 Carrie	rs non-conti	iauous						
			RB Allo	cation				
BW Arrange	Frequency	Modulation	Size	Offset	4x4 MIMO Total Conducted Power (dBm)	Antenna Gain dBi	EIRP (dBm)	E.I.R.P Limit (mW)
		QPSK	25/25	0	42.32	6.00	48.32	67920.36
	LCH	16QAM	25/25	0	41.99	6.00	47.99	62950.62
	LOTT	64QAM	25/25	0	42.1	6.00	48.1	64565.42
5 + 5		256QAM	25/25	0	42.14	6.00	48.14	65162.84
3+3		QPSK	25/25	0	41.59	6.00	47.59	57411.65
	HCH	16QAM	25/25	0	42	6.00	48	63095.73
	пСп	64QAM	25/25	0	41.63	6.00	47.63	57942.87
		256QAM	25/25	Offset Power (dBm) dBi 6 0 42.32 6.00 6 0 41.99 6.00 6 0 42.14 6.00 6 0 41.59 6.00 6 0 41.59 6.00 6 0 41.63 6.00 6 0 41.63 6.00 6 0 41.75 6.00 0 0 42.08 6.00 0 0 42.08 6.00 0 0 42.08 6.00 0 0 42.13 6.00 0 0 42.33 6.00 0 0 42.33 6.00 0 0 42.2 6.00 0 0 42.3 6.00 0 0 42.3 6.00 0 0 42.31 6.00 0 0 42.31 6.00	47.75	59566.21		
		QPSK	25/50	0	42.27	6.00	48.27	67142.89
	LCH	16QAM	25/50	0	42.08	6.00	48.08	64268.77
	LCH	64QAM	25/50	0	42.04	6.00	48.04	63679.55
F . 40		256QAM	25/50	0	42.13	6.00	48.13	65012.97
5 + 10	НСН	QPSK	25/50	0	42.39	6.00	48.39	69023.98
		16QAM	25/50	0	42.15	6.00	48.15	65313.06
		64QAM	25/50	0	42.2	6.00	48.2	66069.34
5 + 10		256QAM	25/50	0	42.3	6.00	48.3	67608.30
		QPSK	25/75	0	41.77	6.00	47.77	59841.16
	LCH	16QAM	25/75	0	41.67	6.00	47.67	58479.01
	LCH	64QAM	25/75	0	42.06	6.00	48.06	63973.48
E . 1E		256QAM	25/75	0	41.85	6.00	47.85	60953.69
5 + 15		QPSK	25/75	0	42.31	6.00	48.31	67764.15
	HCH	16QAM	25/75	0	42.4	6.00	48.4	69183.10
	пСп	64QAM	25/75	0	42.52	6.00	48.52	71121.35
		256QAM	25/75	0	42.53	6.00	48.53	71285.30
		QPSK	25/100	0	42.12	6.00	48.12	64863.44
	LCH	16QAM	25/100	0	42.17	6.00	48.17	65614.53
	LCH	64QAM	25/100	0	42.34	6.00	48.34	68233.87
5 L 20		256QAM	25/100	0	41.98	6.00	47.98	62805.84
5 + 20		QPSK	25/100	0	42.35	6.00	48.35	68391.16
	ПСП	16QAM	25/100	0	42.41	6.00	48.41	69342.58
	HCH	64QAM	25/100	0	42.43	6.00	48.43	69662.65
		256QAM	25/100	0	42.3	6.00	48.3	67608.30



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BW			RB Allo	cation	4x4 MIMO Total	Antenna	EIRP	E.I.R.P
Arrange	Frequency	Modulation	Size	Size	Conducted Power (dBm)	Gain dBi	(dBm)	Limit (mW)
		QPSK	50/50	0	41.92	6.00	47.92	61944.11
	1.011	16QAM	50/50	0	42.14	6.00	48.14	65162.84
10 + 10	LCH	64QAM	50/50	0	41.95	6.00	47.95	62373.48
		256QAM	50/50	0	41.9	6.00	47.9	61659.50
		QPSK	50/50	0	42.12	6.00	48.12	64863.44
	ПСП	16QAM	50/50	0	41.91	6.00	47.91	61801.64
	HCH	64QAM	50/50	0	41.84	6.00	47.84	60813.50
		Modulation Size Size Conductor Power (section of the power	41.8	6.00	47.8	60255.96		
		QPSK	50/75	0	41.99	6.00	47.99	62950.62
	1.011	16QAM	50/75	0	40.92	6.00	46.92	49203.95
	LCH	64QAM	50/75	0	40.87	6.00	46.87	48640.72
40 . 45		256QAM	50/75	0	40.9	6.00	46.9	48977.88
10 + 15	НСН	QPSK	50/75	0	42.44	6.00	48.44	69823.24
		16QAM	50/75	0	42.24	6.00	48.24	66680.68
		64QAM	50/75	0	42.03	6.00	48.03	63533.09
		256QAM	50/75	0	42.2	95 6.00 47.95 .9 6.00 47.9 12 6.00 48.12 91 6.00 47.81 .8 6.00 47.84 .8 6.00 47.89 92 6.00 46.92 .87 6.00 46.92 .87 6.00 46.9 .9 6.00 48.44 .24 6.00 48.24 .03 6.00 48.24 .03 6.00 48.24 .25 6.00 47.82 .7 6.00 47.77 .76 6.00 47.76 .86 6.00 47.86 .22 6.00 48.22 .48 6.00 45.48 .54 6.00 45.48 .54 6.00 45.54 .19 6.00 47.82 .64 6.00 47.82 .64 6.00 47.82 .64 6.00 47.82 .64 6.00 47.82 .64 6.00 47.82 .7 6.00 47.77 .83 6.00 47.83 .83 6.00 47.83 .83 6.00 47.83 .83 6.00 47.83	66069.34	
		QPSK	50/100	0	41.82	6.00	47.82	60534.09
	LCH	16QAM	50/100	0	41.7	6.00	47.7	58884.37
	LCH	64QAM	50/100	0	41.76	6.00	47.76	59703.53
10 . 20		256QAM	50/100	0	41.86	6.00	47.86	61094.20
10 + 20		QPSK	50/100	0	42.22	6.00	48.22	66374.31
	НСН	16QAM	50/100	0	39.48	6.00	45.48	35318.32
	11011	64QAM	50/100	0	39.54	6.00	45.54	35809.64
		256QAM	50/100	0	42.19	6.00	48.19	65917.39
		QPSK	75/100	0	41.82	6.00	47.82	60534.09
	LCH	16QAM	75/100	0	41.64	6.00	47.64	58076.44
	LON	64QAM	75/100	0	41.77	6.00	47.77	59841.16
15 + 20		256QAM	75/100	0	41.83	6.00	47.83	60673.63
15 + 20		QPSK	75/100	0	42.33	6.00	48.33	68076.94
	НСН	16QAM	75/100	0	42.39	6.00	48.39	69023.98
	поп	64QAM	75/100	0	42.71	6.00	48.71	74301.91
		256QAM	75/100	0	42.42	6.00	48.42	69502.43



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BW Arrange F			RB Allo	cation	4x4 MIMO Total	Antenna	EIRP	E.I.R.P
	Frequency	Modulation	Size	Size	Conducted Power (dBm)	Gain dBi	(dBm)	Limit (mW)
		QPSK	100/100	0	42.05	6.00	48.05	63826.35
	LCH	16QAM	100/100	0	41.89	6.00	47.89	61517.69
	LOTT	64QAM	100/100	0	42.12	6.00	48.12	64863.44
20 + 20		256QAM	100/100	0	41.96	6.00	47.96	62517.27
20 + 20		QPSK	100/100	0	42.52	6.00	48.52	71121.35
	HCH	16QAM	100/100	0	42.41	6.00	48.41	69342.58
	псп	64QAM	100/100	0	42.43	6.00	48.43	69662.65
		256QAM	100/100	0	42.4	6.00	48.4	69183.10



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5.2 MPE Calculation

According to the formula $S=P/4\pi R^2$, we can calculate S which is MPE.

Note:

1) P (mW)

- 2) R = distance to the center of radiation of antenna (in centimeter)
- 3) MPE limit = 1mW/cm²

Test Mode	Frequency Band (MHz)	Maximum E.I.R.P (dBm)	Limit of Power Density S(mW/cm²)	Safety Distance (cm)
TDD Band 48	3550 - 3700	48.71	1	76.8944

The Safety Distance is 76.8944cm.

-- End of the Report--



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