

RF TEST REPORT

Report Reference No..... : MAX26070311P01-R01RF

FCC ID..... : 2ADXO-GXH1

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Address..... : Unit B, 12F, Building 11, No.518, xinzhuang RD., Songjiang District, Shanghai, China

Manufacturer's name..... : Mexxen Technology(ShangHai)INC

Address..... : Unit B, 12F, Building 11, No.518, xinzhuang RD., Songjiang District, Shanghai, China

Test specification..... :

Standard..... : **FCC 1.1310**

KDB 447498 D01 General RF Exposure Guidance v06

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Test item description..... : Wireless Industrial Barcode Scanner

Trade Mark..... : MEXXEN

Model/Type reference..... : GXH-1

Listed Models : GXH-113HD, GXH-113SR, GXH-113IP, GXH-117DP, GXH-118DP, GXH-128DP, GXH-121HHD, GXH-121MR, GXH-122ER, GXH-158DP

Modulation : GFSK, $\pi/4$ DQPSK, 8-DPSK

Frequency..... : From 2402MHz to 2480MHz
From 2410MHz to 2470MHz

Rating..... : DC 3.7V From Battery and DC 5V From External circuit

Result..... : **PASS**

RF EXPOSURE EVALUATION METHOD

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

According to KDB 447498 D01 General RF Exposure Guidance v06, Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition(s), listed below, is (are) satisfied.

EUT Specification

EUT	
Frequency band (Operating)	☐ WLAN: 2.412GHz ~ 2.462GHz ☐ WLAN: 5.150GHz ~ 5.250GHz ☐ WLAN: 5.725GHz ~ 5.850GHz ☒ Others BT:2402-2480MHz 2.4G: 2410MHz ~ 2470MHz
Device category	☒ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR
Antenna diversity	☒ Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Max. output power	4.84dBm (0.00305W)
Antenna gain (Max)	0.55 dBi for BT; 0.56dBi for 2.4G SRD
Evaluation applied	☐ MPE Evaluation ☒ SAR Evaluation

RF EXPOSURE EVALUATION METHOD

SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	SAR Test Exclusion Threshold (mW)
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$$f(\text{GHz}) \text{ is the RF channel transmit frequency in GHz}$$

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Maximum measured transmitter power.

BR/EDR+BLE+2.4G

Operating Mode	Frequency	Measured Power	max. power	Antenna Gain	min. test separation distance	[$\sqrt{f(\text{GHz})}$]	Result	Limit
	(MHz)	(dBm)	(mW)	(dBi)	(mm)			
GFSK	2402	3.67	2.33	0.55	5	1.550	0.7216	3
	2441	3.38	2.18	0.55	5	1.562	0.6805	3
	2480	4.08	2.56	0.55	5	1.575	0.8059	3
$\pi/4$ DQPSK	2402	4.02	2.52	0.55	5	1.550	0.7822	3
	2441	3.68	2.33	0.55	5	1.562	0.7291	3
	2480	4.53	2.84	0.55	5	1.575	0.8938	3
8-DPSK	2402	4.41	2.76	0.55	5	1.550	0.8557	3
	2441	3.92	2.47	0.55	5	1.562	0.7706	3
	2480	4.84	3.05	0.55	5	1.575	0.9600	3
GFSK	2402	3.82	2.41	0.55	5	1.550	0.7470	3
	2440	3.43	2.20	0.55	5	1.562	0.6884	3
	2480	3.56	2.27	0.55	5	1.575	0.7149	3

For 2.4G Measurement Data

Operating Mode	Frequency	Field strength	EIRP	Max tune-up	Antenna Gain	min. test separation distance	Result	Limit
	(MHz)	(dBuV/m @3)	(dBm)	(mW)	(dBi)	(mm)		
GFSK	2410	93.67	-1.49	0.71	0.56	5	0.2203	3
	2440	91.91	-3.25	0.47	0.56	5	0.1478	3
	2470	88.18	-6.98	0.20	0.56	5	0.0630	3

$$\text{EIRP} = E_{\text{Meas}} + 20 \log(d_{\text{Meas}}) - 104.7$$

EIRP is the equivalent isotropically radiated power, in dBm

E_{Meas} is the field strength of the emission at the measurement distance, in dBuV/m

d_{Meas} is the measurement distance, in m

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$$

The test Result is less than 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

$$\text{The highest measured or estimated SAR}_{\text{BT}} + \text{the highest measured or estimated SAR}_{\text{SRD}} = 0.1284/1.6 + 0.0263/1.6 = 0.01 < 1.0$$

Conclusion: No SAR is required.