



LAND



SEA



AIR

# THOR100S-X13

## MIL STD 461 Report



## Measurement Procedures and Standards Used :

Test result is compliance with MIL-STD-461G

<b>Applicable Standards</b>			
<b>Standard</b>	<b>Special</b>	<b>Location of Test</b>	<b>Test Result</b>
MIL-STD-461G(CE102)	Frequency Range: 0.5MHz - 10 MHz	IETC LAB	PASS
MIL-STD-461G(CE102)	Frequency Range: 10 KHz – 150 KHz	IETC LAB	PASS
MIL-STD-461G(CE102)	Frequency Range: 150 KHz – 500 KHz	IETC LAB	PASS
MIL-STD-461G (RE102)	Frequency Range: 30 MHz - 200 MHz	IETC LAB	PASS
MIL-STD-461G (RE102)	Frequency Range: 200 MHz – 1 GHz	IETC LAB	PASS
MIL-STD-461G (RE102)	Frequency Range: 1 GHz – 3 GHz	IETC LAB	PASS
MIL-STD-461G (RE102)	Frequency Range: 3 GHz - 5 GHz	IETC LAB	PASS



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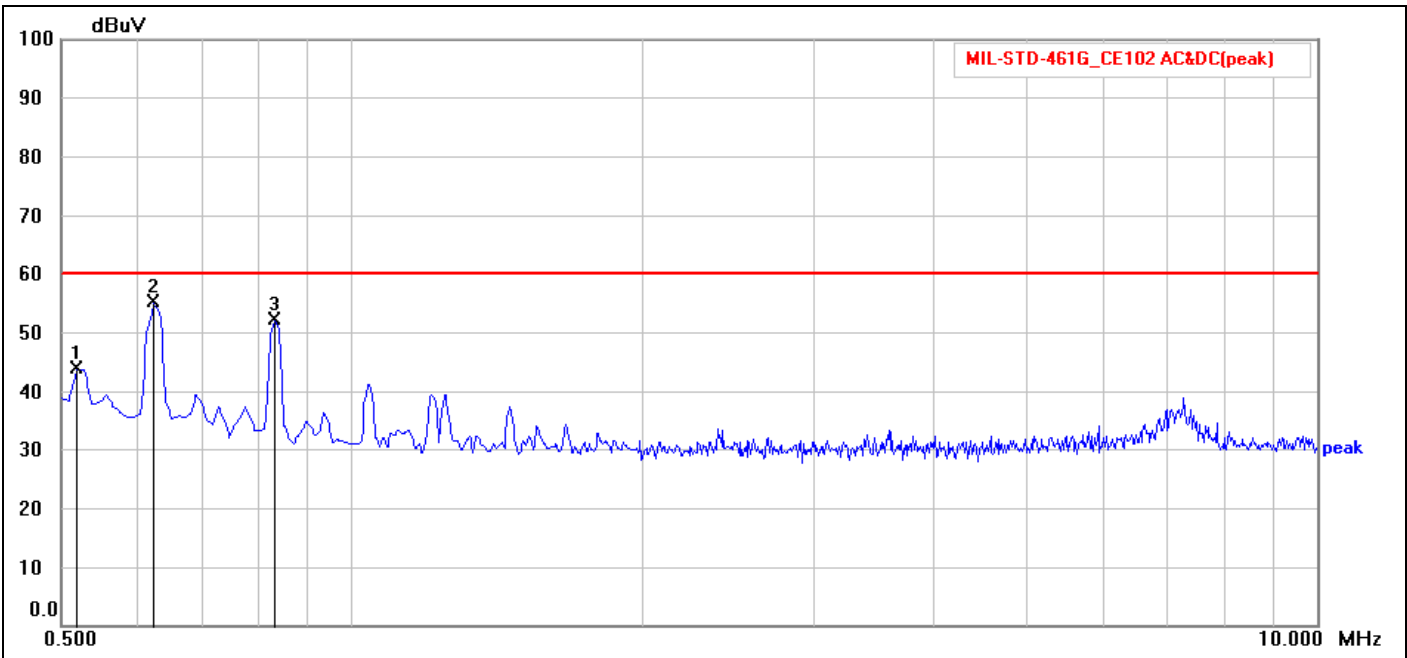
新北市林口區頂福里 1 鄰 5-2 號  
No.5-2, Lin 1, Tin-Fu, Lin-Kou Dist., New Taipei City, Taiwan 244, R.O.C.

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Tel: +886-2-2600-6861  
Fax: +886-2-2600-6859

Job No.:	Pretest	Polarization:	L1
Standard:	MIL-STD-461G_CE102 AC&DC	Power Source:	DC24V
Test item:	Conduction Test	Date:	2024/10/17
Company:	百威	Time:	09:59:13
EUT Name:		Temp.(°C)/Hum.(%):	26.1(°C)/54%
EUT Model:	THOR100S-X13	Engineer Signature:	Vic Xue
Distance:			

Note:

Range1 :0.5--10(MHz) / RBW:10(kHz) / VBW:30(kHz)



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.519	23.96	19.79	43.75	60.00	-16.25	peak	P	
2	0.624	35.13	19.80	54.93	60.00	-5.07	peak	P	
3	0.833	32.27	19.83	52.10	60.00	-7.90	peak	P	



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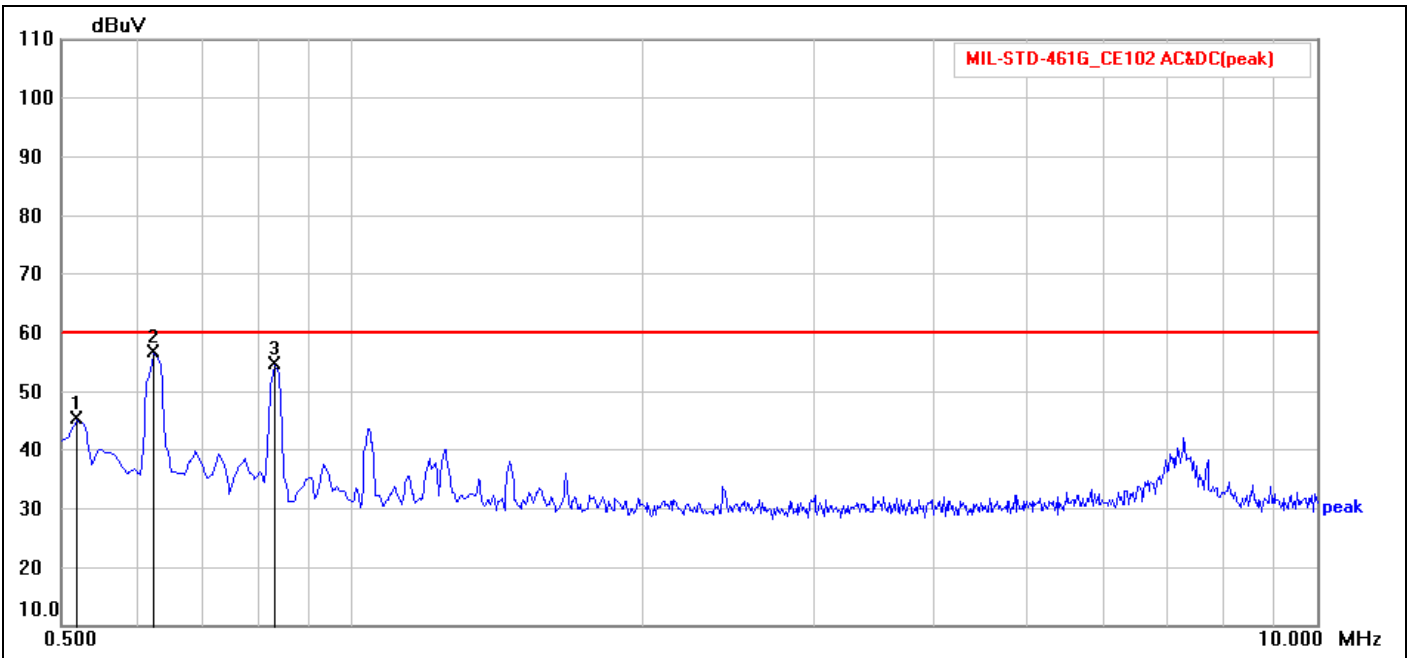
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Job No.:	Pretest	Polarization:	N
Standard:	MIL-STD-461G_CE102 AC&DC	Power Source:	DC24V
Test item:	Conduction Test	Date:	2024/10/17
Company:	百威	Time:	10:00:51
EUT Name:		Temp.(°C)/Hum.(%):	26.1(°C)/54%
EUT Model:	THOR100S-X13	Engineer Signature:	Vic Xue
Distance:			

Note:

Range1 :0.5--10(MHz) / RBW:10(kHz) / VBW:30(kHz)



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.519	25.33	19.81	45.14	60.00	-14.86	peak	P	
2	0.624	36.59	19.82	56.41	60.00	-3.59	peak	P	
3	0.833	34.51	19.83	54.34	60.00	-5.66	peak	P	



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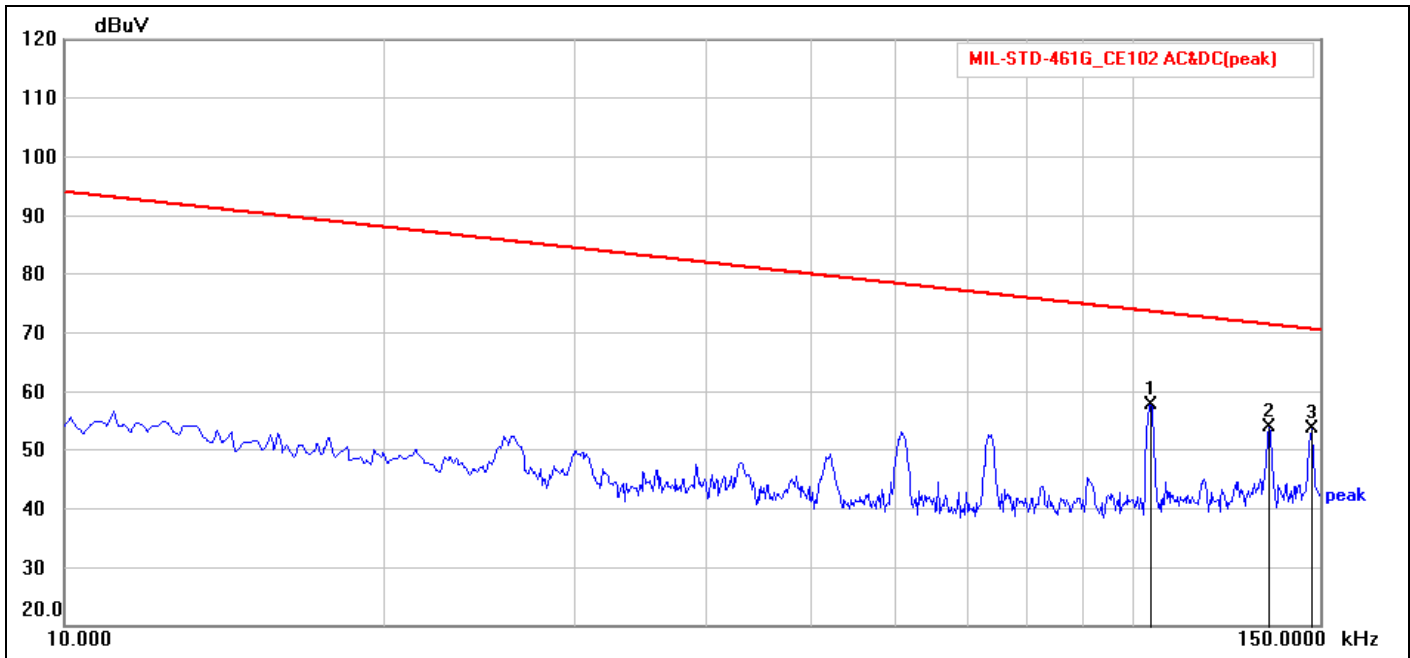
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Job No.:	Pretest	Polarization:	L1
Standard:	MIL-STD-461G_CE102 AC&DC	Power Source:	DC24V
Test item:	Conduction Test	Date:	2024/10/17
Company:	百威	Time:	09:54:31
EUT Name:		Temp.(°C)/Hum.(%):	26.1(°C)/54%
EUT Model:	THOR100S-X13	Engineer Signature:	Vic Xue
Distance:			

Note:

Range1 :0.01--0.15(MHz) / RBW:1(kHz) / VBW:3(kHz)



No.	Frequency (kHz)	Reading (dBuV)	Correction Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	104.080	37.73	20.01	57.74	73.64	-15.90	peak	P	
2	134.460	33.93	19.90	53.83	71.41	-17.58	peak	P	
3	147.340	33.85	19.84	53.69	70.62	-16.93	peak	P	



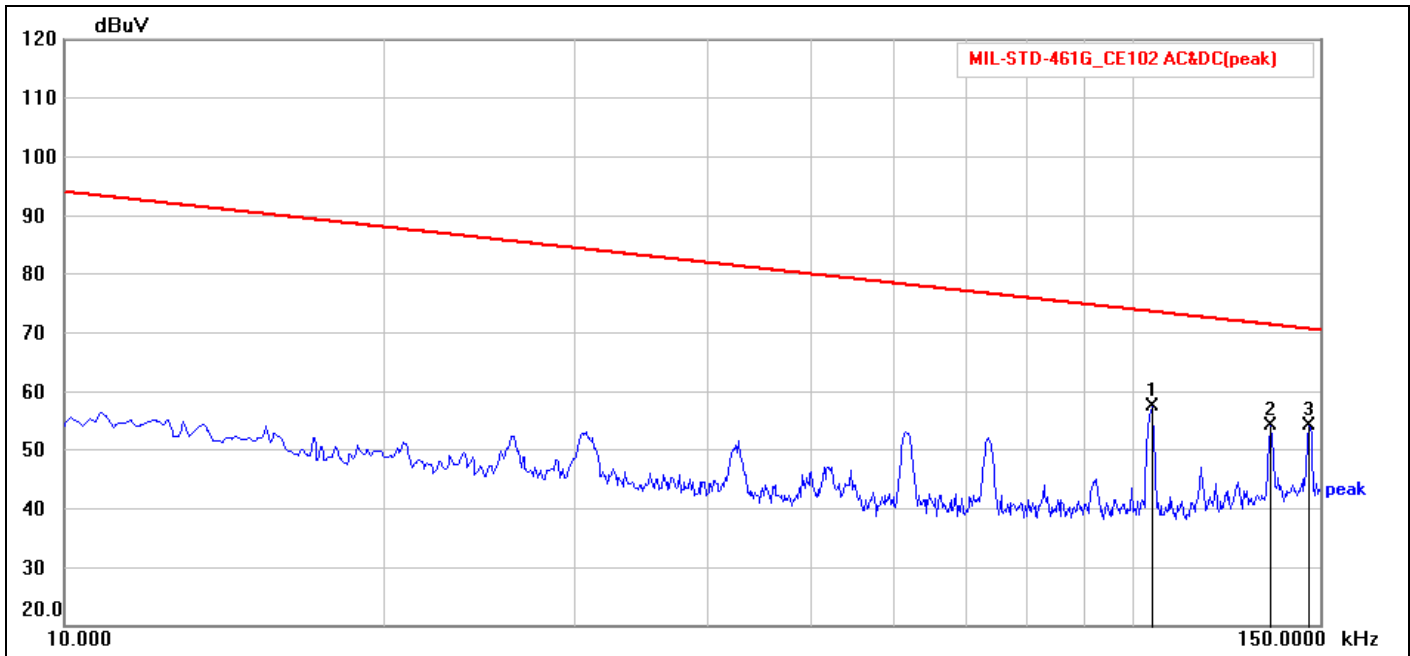
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Job No.:	Pretest	Polarization:	N
Standard:	MIL-STD-461G_CE102 AC&DC	Power Source:	DC24V
Test item:	Conduction Test	Date:	2024/10/17
Company:	百威	Time:	10:04:01
EUT Name:		Temp.(°C)/Hum.(%):	26.1(°C)/54%
EUT Model:	THOR100S-X13	Engineer Signature:	Vic Xue
Distance:			
Note:			

Range1 :0.01--0.15(MHz) / RBW:1(kHz) / VBW:3(kHz)



No.	Frequency (kHz)	Reading (dBuV)	Correction Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	104.360	37.45	20.03	57.48	73.62	-16.14	peak	P	
2	135.160	34.28	19.90	54.18	71.37	-17.19	peak	P	
3	146.780	34.31	19.85	54.16	70.65	-16.49	peak	P	



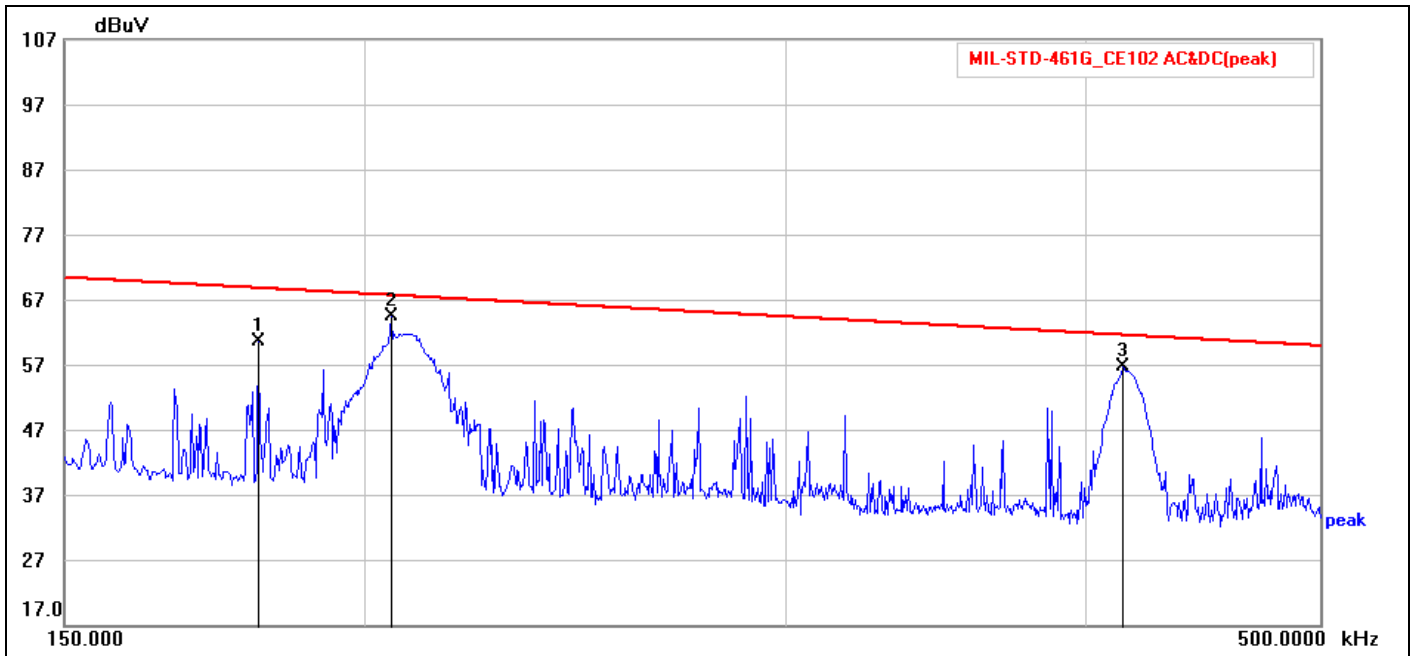
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Job No.:	Pretest	Polarization:	L1
Standard:	MIL-STD-461G_CE102 AC&DC	Power Source:	DC24V
Test item:	Conduction Test	Date:	2024/10/17
Company:	百威	Time:	13:37:44
EUT Name:		Temp.(°C)/Hum.(%):	26.1(°C)/54%
EUT Model:	THOR100S-X13	Engineer Signature:	Vic Xue
Distance:			
Note:	WE F 14A +4L		

Range1 :0.15--0.5(MHz) / RBW:10(kHz) / VBW:30(kHz)



No.	Frequency (kHz)	Reading (dBuV)	Correction Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	180.800	40.90	19.82	60.72	68.84	-8.12	peak	P	
2	205.300	44.59	19.81	64.40	67.74	-3.34	peak	P	
3	414.250	37.00	19.80	56.80	61.64	-4.84	peak	P	



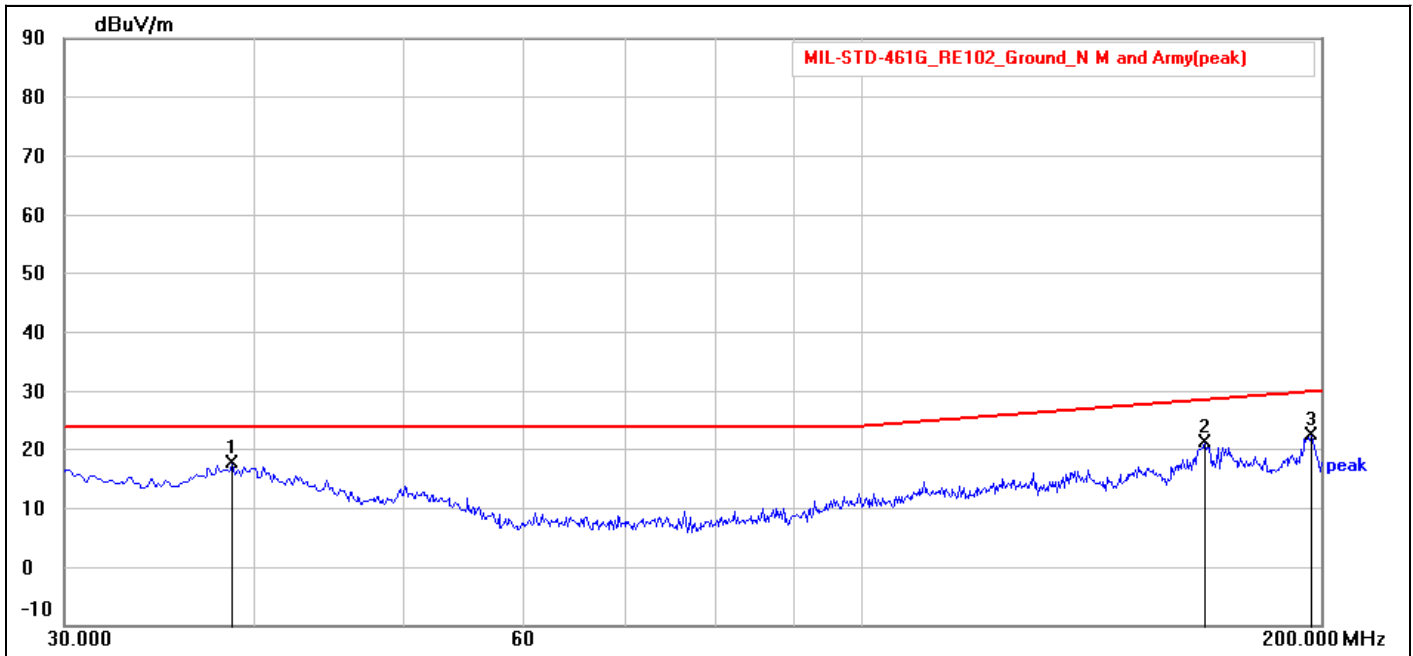
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Job No.:	Pretest	Polarization:	Horizontal
Standard:	MIL-STD-461G_RE102_Ground_N M and Army	Power Source:	DC24V
Test item:	Radiation Test	Date:	2024/10/17
Company:	百威	Time:	10:46:19
EUT Name:		Temp.(°C)/Hum.(%):	26.1(°C)/54%
EUT Model:	THOR100S-X13	Engineer Signature:	Vic Xue
Distance:	1m		
Note:	POWER CABLE 加扣		

Range1 :30--200(MHz) / RBW:100(kHz) / VBW:300(kHz)



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	38.670	33.26	-15.59	17.67	24.00	-6.33	peak	P	
2	168.040	35.98	-14.99	20.99	28.50	-7.51	peak	P	
3	197.110	36.61	-14.22	22.39	29.88	-7.49	peak	P	





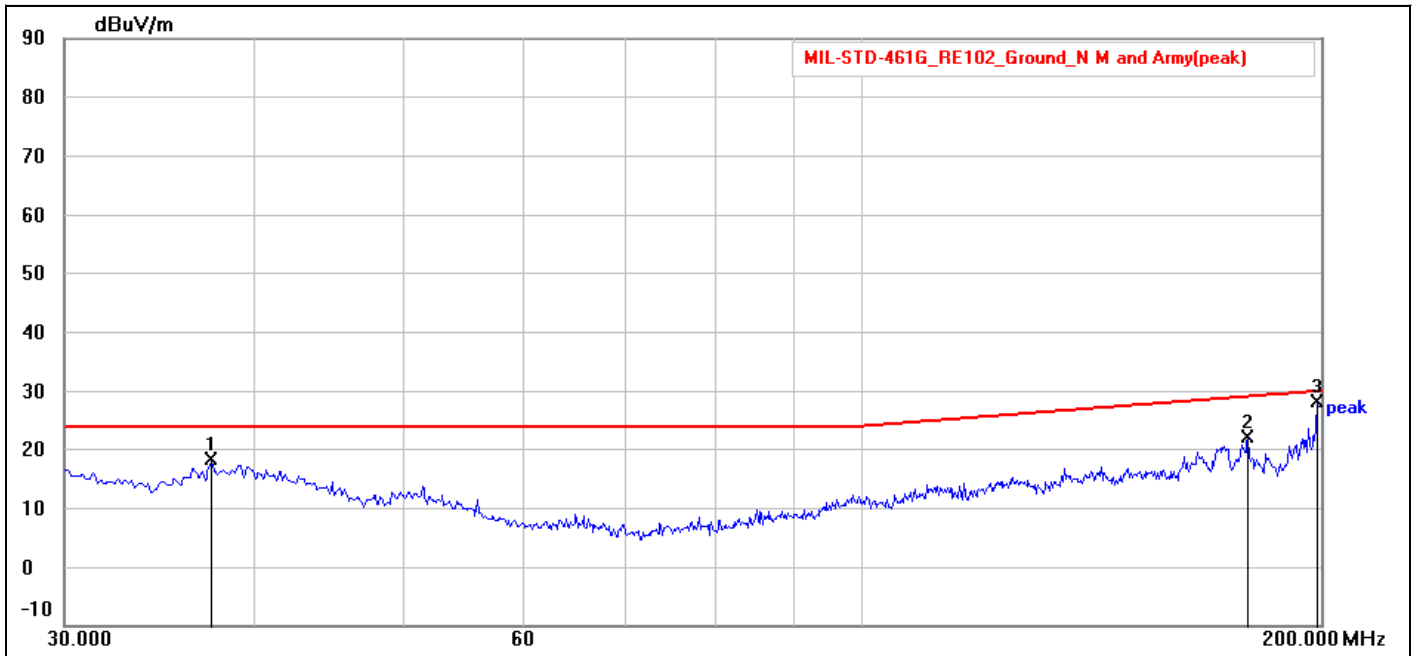
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Job No.:	Pretest	Polarization:	Vertical
Standard:	MIL-STD-461G_RE102_Ground_N M and Army	Power Source:	DC24V
Test item:	Radiation Test	Date:	2024/10/17
Company:	百威	Time:	10:48:20
EUT Name:		Temp.(°C)/Hum.(%):	26.1(°C)/54%
EUT Model:	THOR100S-X13	Engineer Signature:	Vic Xue
Distance:	1m		
Note:	POWER CABLE 加扣		

Range1 :30--200(MHz) / RBW:100(kHz) / VBW:300(kHz)	
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No.	Frequency (MHz)	Reading (dBuV)	Correction Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	37.480	33.52	-15.34	18.18	24.00	-5.82	peak	P	
2	179.430	36.31	-14.55	21.76	29.07	-7.31	peak	P	
3	199.150	42.27	-14.31	27.96	29.97	-2.01	peak	P	



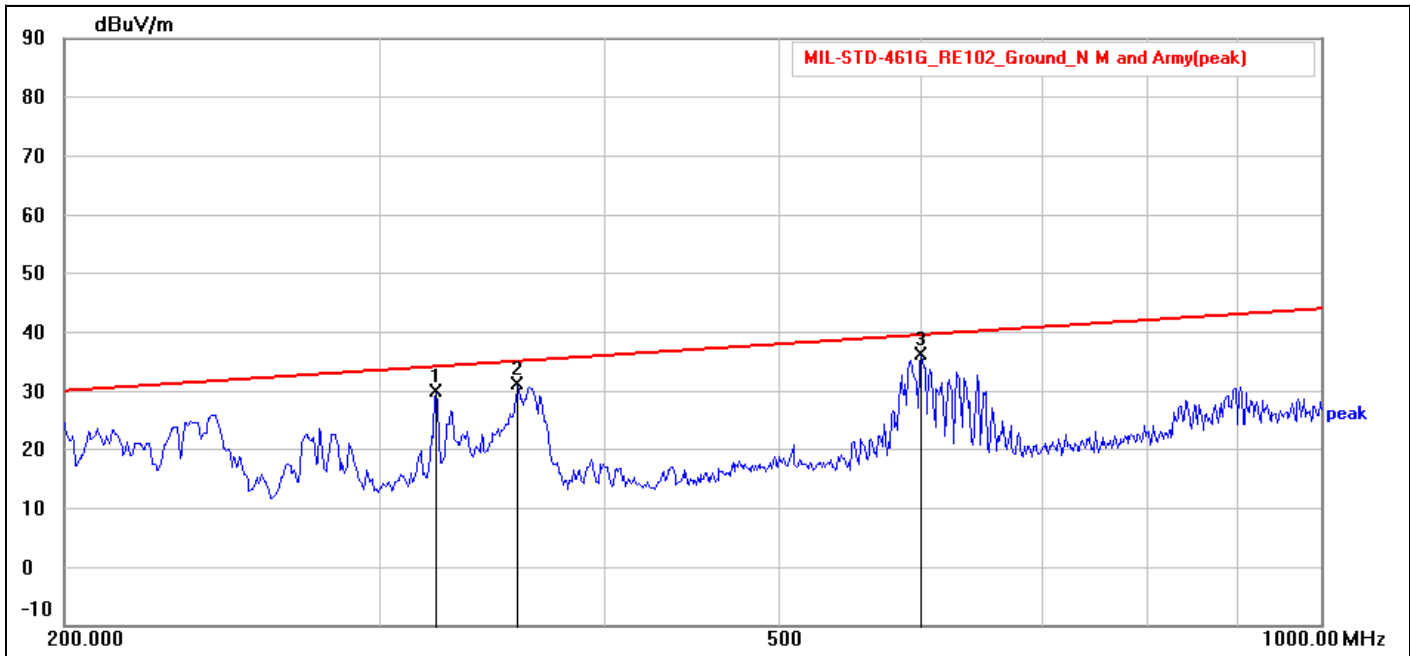
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Job No.:	Pretest	Polarization:	Horizontal
Standard:	MIL-STD-461G_RE102_Ground_N M and Army	Power Source:	DC24V
Test item:	Radiation Test	Date:	2024/10/17
Company:	百威	Time:	10:21:46
EUT Name:		Temp.(°C)/Hum.(%):	26.1(°C)/54%
EUT Model:	THOR100S-X13	Engineer Signature:	Vic Xue
Distance:	1m		
Note:			

Range1 :200--1000(MHz) / RBW:100(kHz) / VBW:300(kHz)



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	322.400	49.42	-19.63	29.79	34.14	-4.35	peak	P	
2	357.600	49.86	-19.00	30.86	35.04	-4.18	peak	P	
3	600.000	50.02	-14.06	35.96	39.52	-3.56	peak	P	



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Job No.:	Pretest	Polarization:	Vertical
Standard:	MIL-STD-461G_RE102_Ground_N M and Army	Power Source:	DC24V
Test item:	Radiation Test	Date:	2024/10/17
Company:	百威	Time:	10:18:29
EUT Name:		Temp.(°C)/Hum.(%):	26.1(°C)/54%
EUT Model:	THOR100S-X13	Engineer Signature:	Vic Xue
Distance:	1m		
Note:			

Range1 :200--1000(MHz) / RBW:100(kHz) / VBW:300(kHz)	
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No.	Frequency (MHz)	Reading (dBuV)	Correction Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	320.800	53.30	-19.72	33.58	34.10	-0.52	peak	P	
2	596.800	52.55	-14.09	38.46	39.48	-1.02	peak	P	
3	632.000	50.60	-12.79	37.81	39.97	-2.16	peak	P	



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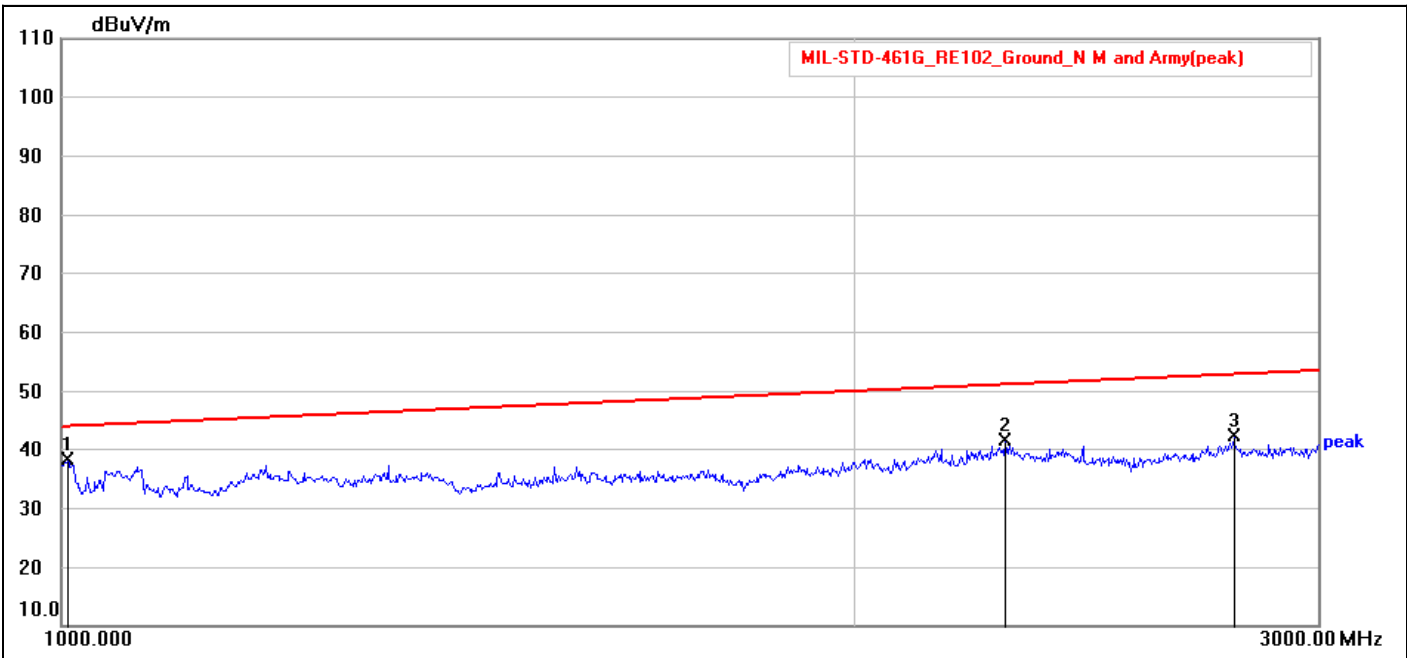
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Job No.:	Pretest	Polarization:	Horizontal
Standard:	MIL-STD-461G_RE102_Ground_N M and Army	Power Source:	DC24V
Test item:	Radiation Test	Date:	2024/10/17
Company:	百威	Time:	10:39:13
EUT Name:		Temp.(°C)/Hum.(%):	26.1(°C)/54%
EUT Model:	THOR100S-X13	Engineer Signature:	Vic Xue
Distance:	1m		

Note:

Range1 : 1000--3000(MHz) / RBW:1000(kHz) / VBW:3000(kHz)



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	1005.508	63.70	-25.73	37.97	44.00	-6.03	peak	P	
2	2280.000	60.98	-19.59	41.39	51.09	-9.70	peak	P	
3	2786.000	60.64	-18.62	42.02	52.83	-10.81	peak	P	



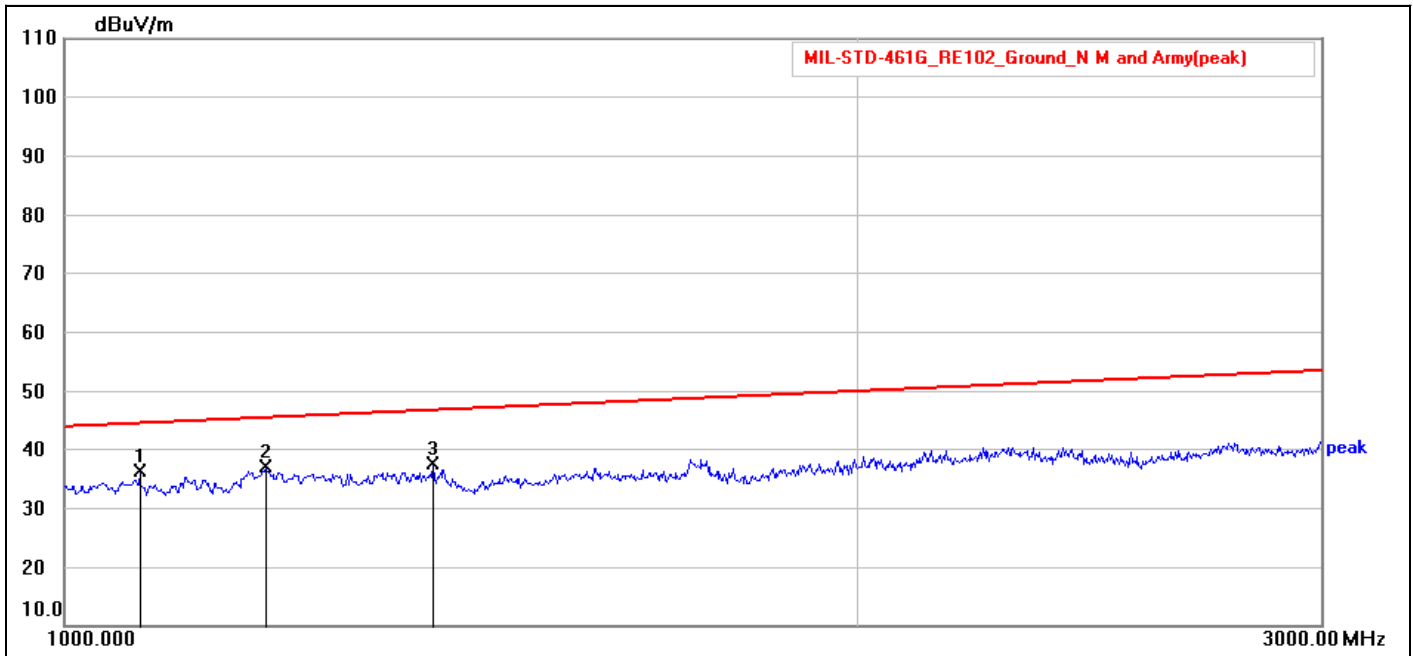
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Job No.:	Pretest	Polarization:	Vertical
Standard:	MIL-STD-461G_RE102_Ground_N M and Army	Power Source:	DC24V
Test item:	Radiation Test	Date:	2024/10/17
Company:	百威	Time:	10:28:06
EUT Name:		Temp.(°C)/Hum.(%):	26.1(°C)/54%
EUT Model:	THOR100S-X13	Engineer Signature:	Vic Xue
Distance:	1m		
Note:			

Range1 : 1000--3000(MHz) / RBW:1000(kHz) / VBW:3000(kHz)



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	1068.000	61.78	-25.83	35.95	44.52	-8.57	peak	P	
2	1192.000	61.62	-24.78	36.84	45.47	-8.63	peak	P	
3	1379.738	61.14	-23.74	37.40	46.74	-9.34	peak	P	



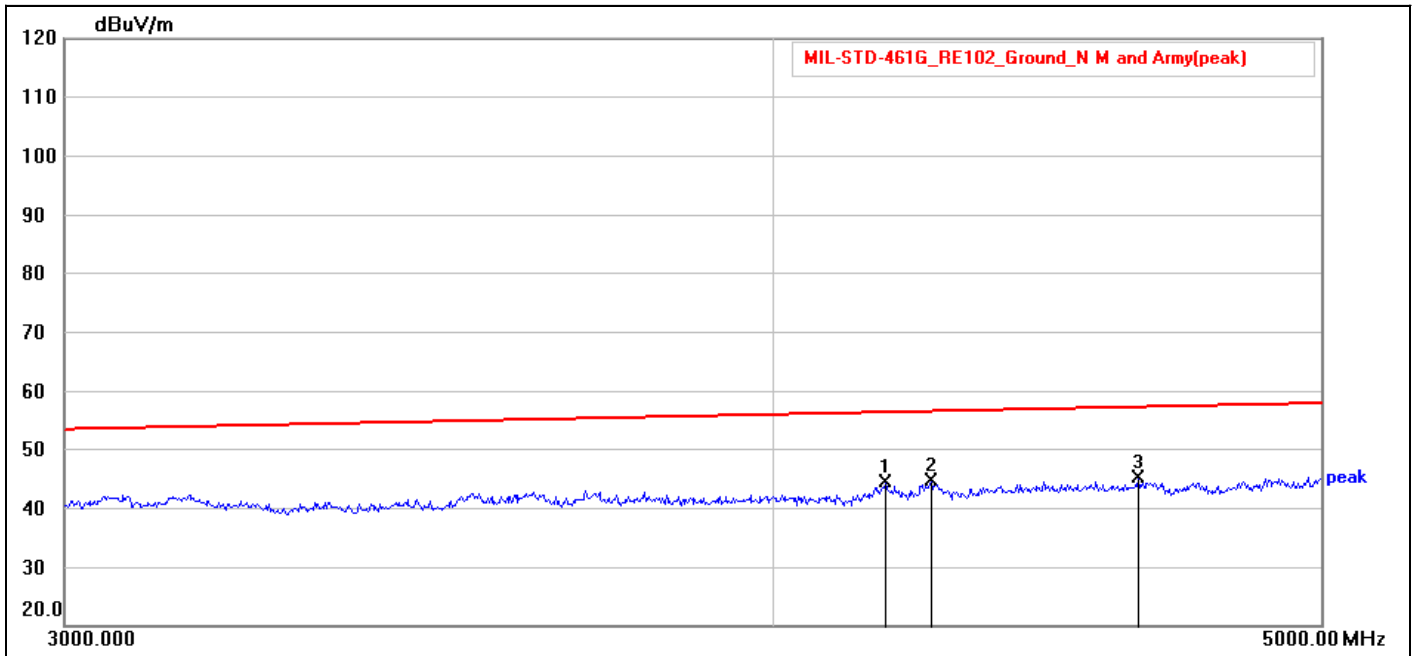
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Job No.:	Pretest	Polarization:	Horizontal
Standard:	MIL-STD-461G_RE102_Ground_N M and Army	Power Source:	DC24V
Test item:	Radiation Test	Date:	2024/10/17
Company:	百威	Time:	10:37:15
EUT Name:		Temp.(°C)/Hum.(%):	26.1(°C)/54%
EUT Model:	THOR100S-X13	Engineer Signature:	Vic Xue
Distance:	1m		
Note:			

Range1 :3000--5000(MHz) / RBW:1000(kHz) / VBW:3000(kHz)



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	4188.000	60.24	-15.97	44.27	56.36	-12.09	peak	P	
2	4266.000	60.35	-15.86	44.49	56.52	-12.03	peak	P	
3	4642.000	59.47	-14.52	44.95	57.26	-12.31	peak	P	



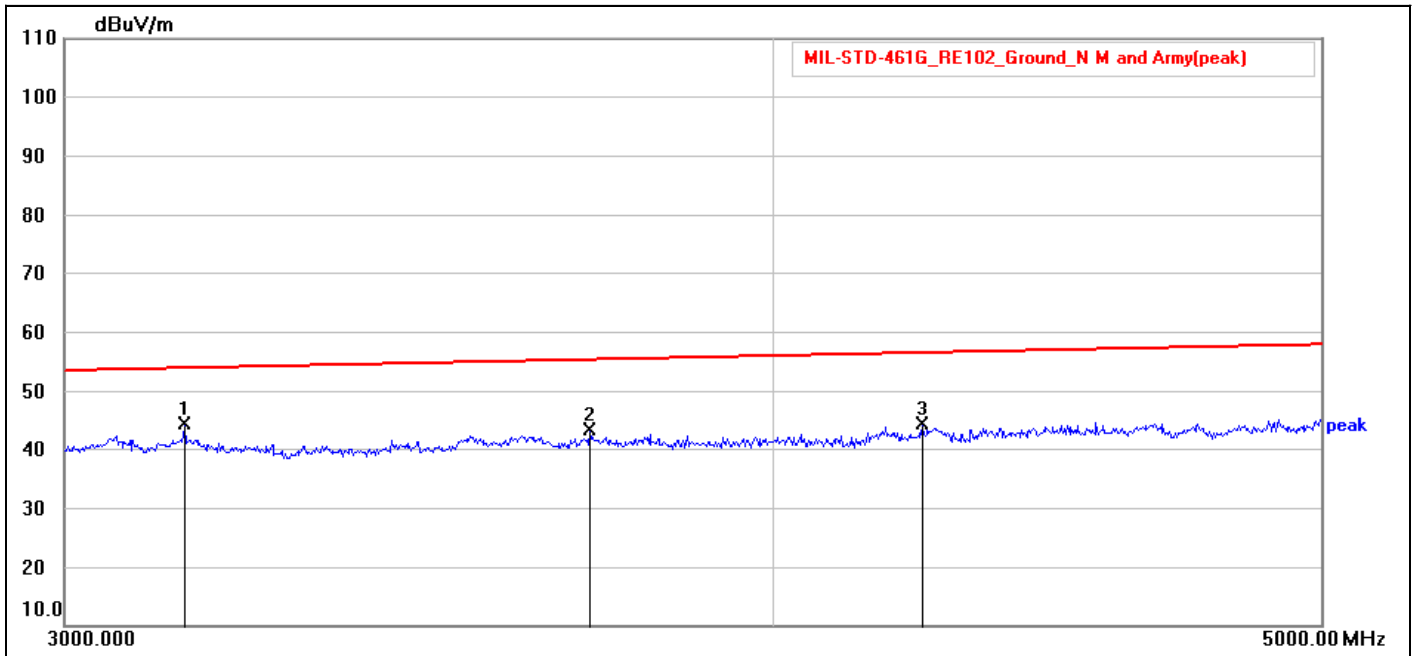
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Job No.:	Pretest	Polarization:	Vertical
Standard:	MIL-STD-461G_RE102_Ground_N M and Army	Power Source:	DC24V
Test item:	Radiation Test	Date:	2024/10/17
Company:	百威	Time:	10:32:40
EUT Name:		Temp.(°C)/Hum.(%):	26.1(°C)/54%
EUT Model:	THOR100S-X13	Engineer Signature:	Vic Xue
Distance:	1m		
Note:			

Range1 :3000--5000(MHz) / RBW:1000(kHz) / VBW:3000(kHz)



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	3150.000	61.79	-17.68	44.11	53.89	-9.78	peak	P	
2	3714.000	60.33	-17.22	43.11	55.32	-12.21	peak	P	
3	4252.000	60.06	-15.96	44.10	56.49	-12.39	peak	P	