

Test Report No.50312818 001

Appendix D: Radiated and Mains Spurious Emission Data

(File: 50312818 001AppendixD)

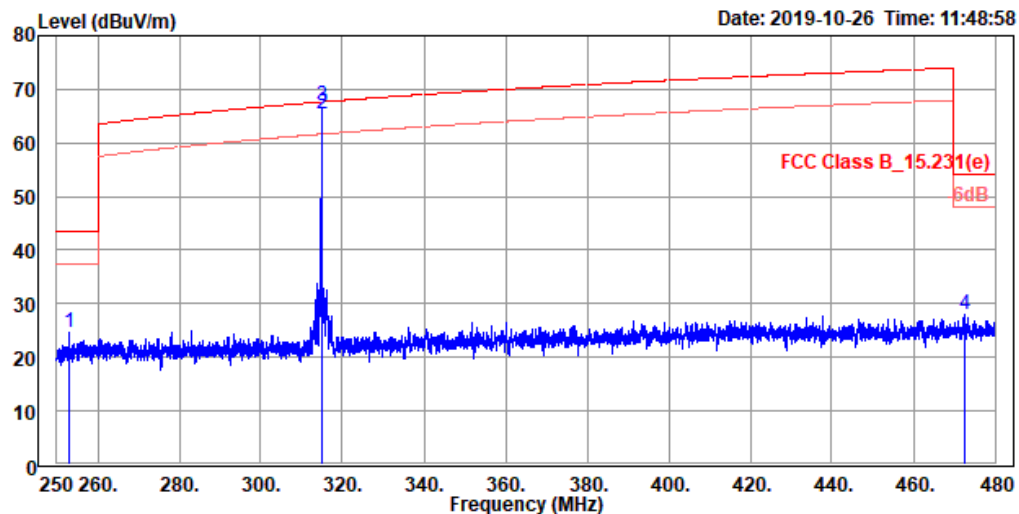
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Spurious Emissions, Band Edges

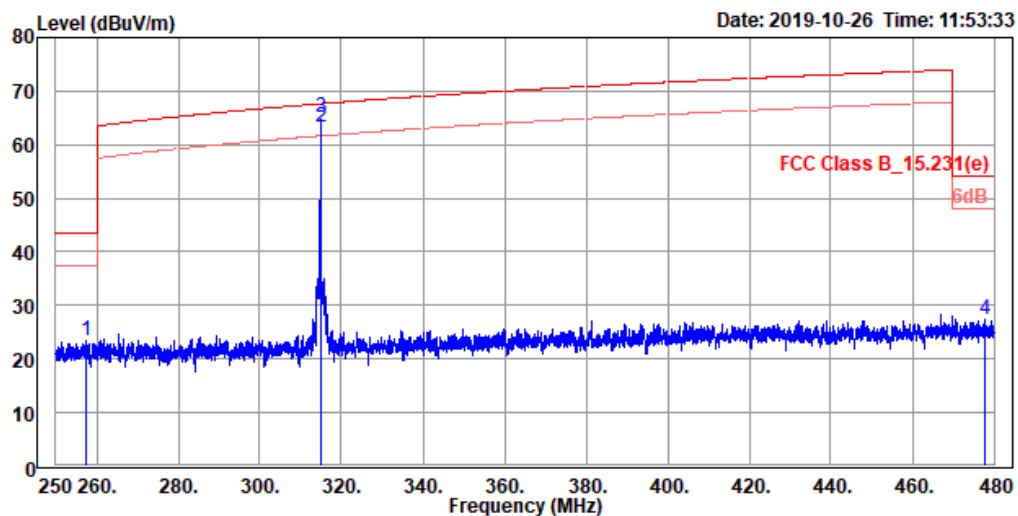


TUV Rheinland Taiwan Ltd.
11F., No. 758, Sec. 4 Bade Road. Songshan Dist, Taipei City 105
Tel: +886-2172-7000 Fax: +886-2528-0018



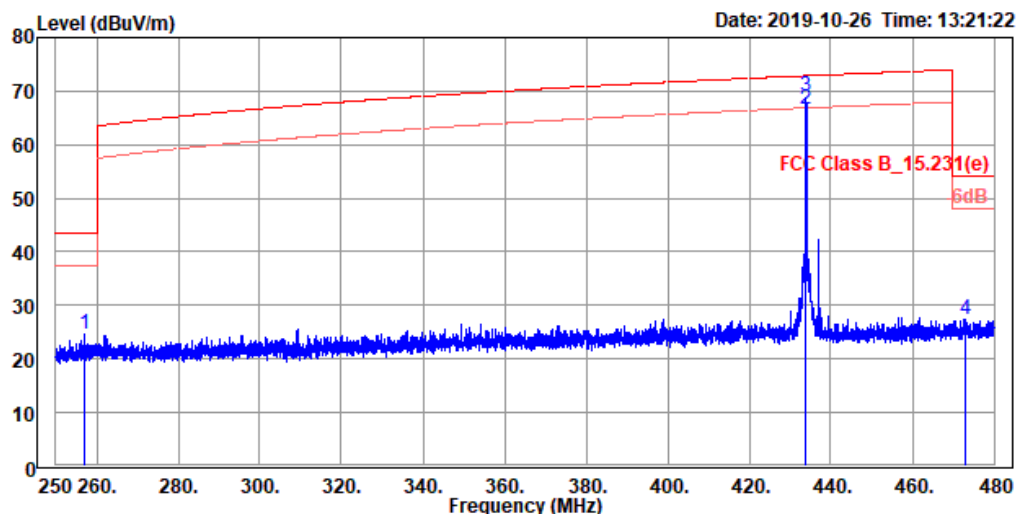
Site : 966A Chamber A
Condition : FCC Class B_15.231(e) 3m horizontal
Test Engineer: Chunyi
Product : TPMS
Model NO : RSI-08
Mode : TX_315MHz
Test Rating : 3Vdc
Tmp/Hum : 23.5°C/67%

	Freq	Read	Level	Limit	Over	APos	TPos	Remark	Note
	MHz	Level	Factor	Line	Limit				
		dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	253.082	30.25	-5.53	24.72	43.52	-18.80	300	203	QP
2 !	315.000	70.00	-4.48	65.52	67.66	-2.14	129	220	QP
3 !	315.000	71.50	-4.48	67.02	67.66	-0.64	129	220	Peak
4	472.433	29.53	-1.63	27.90	54.00	-26.10	300	179	QP



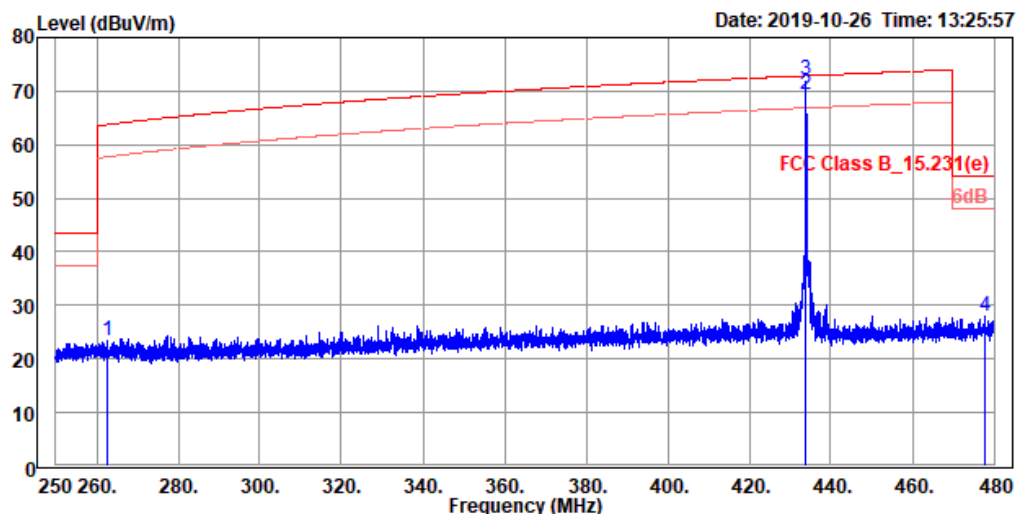
Site : 966A Chamber A
Condition : FCC Class B_15.231(e) 3m vertical
Test Engineer: Chunyi
Product : TPMS
Model NO : RSI-08
Mode : TX_315MHz
Test Rating : 3Vdc
Tmp/Hum : 23.5°C/67%

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	257.544	28.49	-5.16	23.33	43.52	-20.19	100	57	QP	
2 !	315.000	67.70	-4.48	63.22	67.66	-4.44	146	332	QP	
3 !	315.000	69.62	-4.48	65.14	67.66	-2.52	146	332	Peak	
4	477.884	29.17	-1.65	27.52	54.00	-26.48	100	46	QP	



Site : 966A Chamber A
Condition : FCC Class B_15.231(e) 3m horizontal
Test Engineer: Chunyi
Product : TPMS
Model NO : RSI-08
Mode : TX_434MHz
Test Rating : 3Vdc
Tmp/Hum : 23.5°C/67%

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	257.130	29.86	-5.19	24.67	43.52	-18.85	300	212	QP	
2	434.000	68.90	-2.26	66.64	72.87	-6.23	100	212	QP	
3 !	434.000	71.18	-2.26	68.92	72.87	-3.95	100	212	Peak	
4	473.169	29.13	-1.64	27.49	54.00	-26.51	300	193	QP	



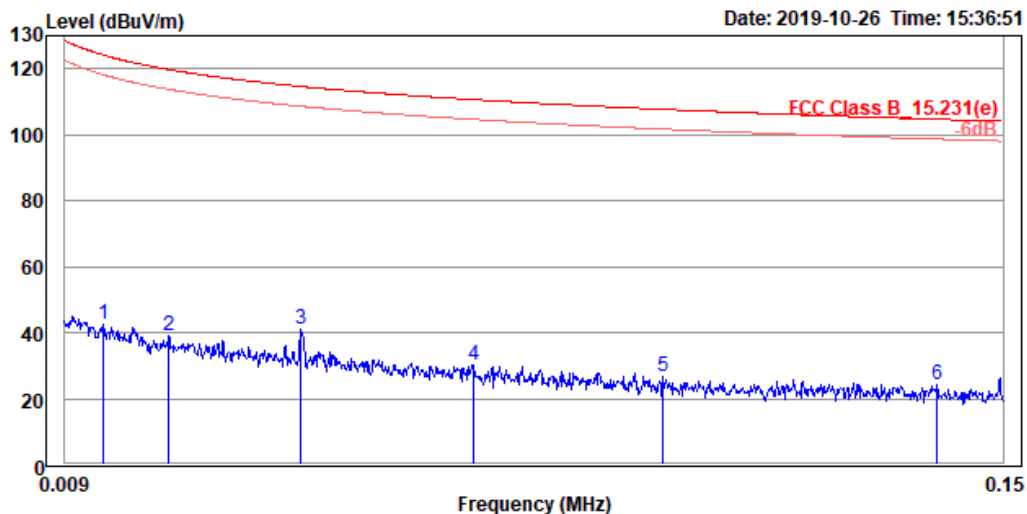
Site : 966A Chamber A
Condition : FCC Class B_15.231(e) 3m vertical
Test Engineer: Chunyi
Product : TPMS
Model NO : RSI-08
Mode : TX_434MHz
Test Rating : 3Vdc
Tmp/Hum : 23.5°C/67%

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	262.581	28.53	-5.04	23.49	63.76	-40.27	400	114	QP	
2 !	434.000	71.70	-2.26	69.44	72.87	-3.43	145	154	QP	
3 !	434.000	74.31	-2.26	72.05	72.87	-0.82	145	154	Peak	
4	477.792	29.64	-1.64	28.00	54.00	-26.00	327	360	QP	

Spurious Emissions, TX Mode, 9kHz-30MHz

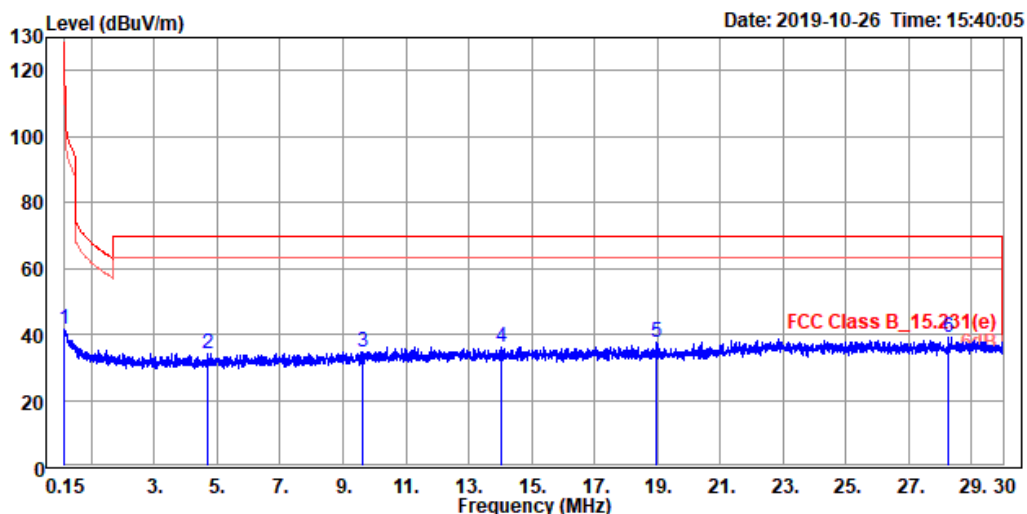


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Tel: +886-2172-7000 Fax: +886-2528-0018



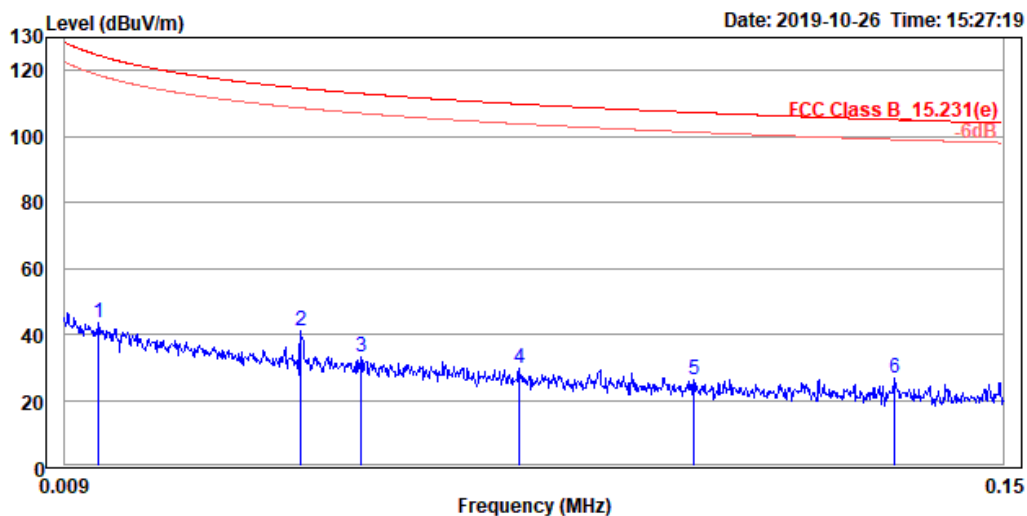
Site : 966A Chamber A
Condition : FCC Class B_15.231(e) 3m vertical
Test Engineer: Chunyi
Product : TPMS
Model NO : RSI-08
Mode : TX_315MHz
Test Rating : 3Vdc
Tmp/Hum : 23.5°C/67%

	Freq	Read		Limit	Over	APos	TPos	Remark	Note
	MHz	Level	Factor	Level	Line	Limit			
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	0.015	24.40	18.30	42.70	124.19	-81.49	100	259	QP
2	0.025	20.40	18.74	39.14	119.75	-80.61	100	142	QP
3	0.045	21.92	18.91	40.83	114.62	-73.79	100	0	QP
4	0.070	11.64	18.40	30.04	110.65	-80.61	100	0	QP
5	0.099	8.80	17.73	26.53	107.69	-81.16	100	173	QP
6	0.140	6.44	17.87	24.31	104.67	-80.36	100	0	QP



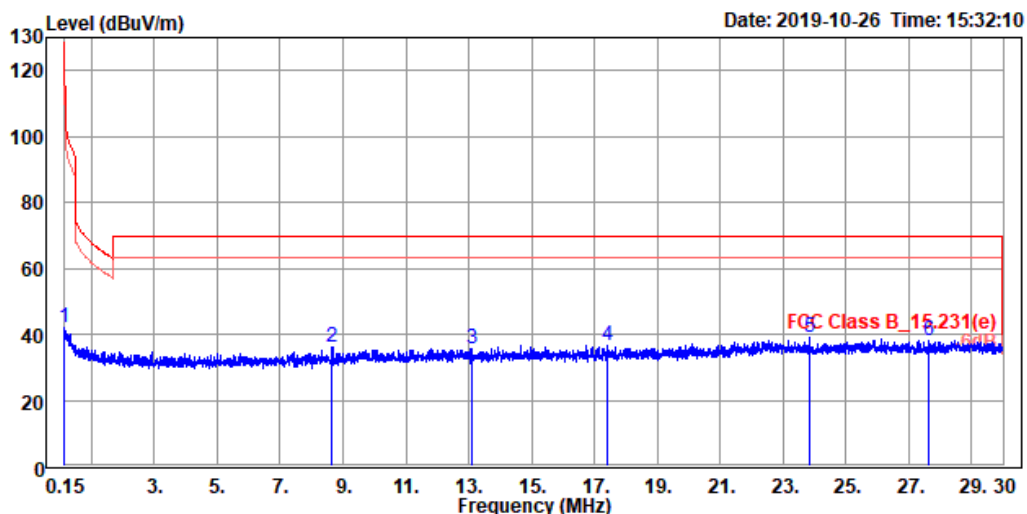
Site : 966A Chamber A
Condition : FCC Class B_15.231(e) 3m vertical
Test Engineer: Chunyi
Product : TPMS
Model NO : RSI-08
Mode : TX_315MHz
Test Rating : 3Vdc
Tmp/Hum : 23.5°C/67%

	Freq	Read	Factor	Level	Limit	Over	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	0.150	23.78	17.91	41.69	104.08	-62.39	100	240	QP	
2	4.681	14.87	19.22	34.09	69.50	-35.41	100	158	QP	
3	9.630	14.46	20.33	34.79	69.50	-34.71	100	0	QP	
4	14.024	15.15	20.80	35.95	69.50	-33.55	100	179	QP	
5	18.967	16.02	21.30	37.32	69.50	-32.18	100	210	QP	
6	28.269	17.25	21.78	39.03	69.50	-30.47	100	65	QP	



Site : 966A Chamber A
Condition : FCC Class B_15.231(e) 3m vertical
Test Engineer: Chunyi
Product : TPMS
Model NO : RSI-08
Mode : TX_434MHz
Test Rating : 3Vdc
Tmp/Hum : 23.5°C/67%

	Freq	Read	Factor	Level	Limit	Over	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	0.014	25.02	18.25	43.27	124.70	-81.43	100	144	QP	
2	0.044	22.09	18.91	41.00	114.65	-73.65	100	191	QP	
3	0.054	14.53	18.79	33.32	113.02	-79.70	100	0	QP	
4	0.077	11.53	18.24	29.77	109.84	-80.07	100	0	QP	
5	0.103	8.59	17.71	26.30	107.30	-81.00	100	116	QP	
6	0.134	8.92	17.85	26.77	105.07	-78.30	100	244	QP	



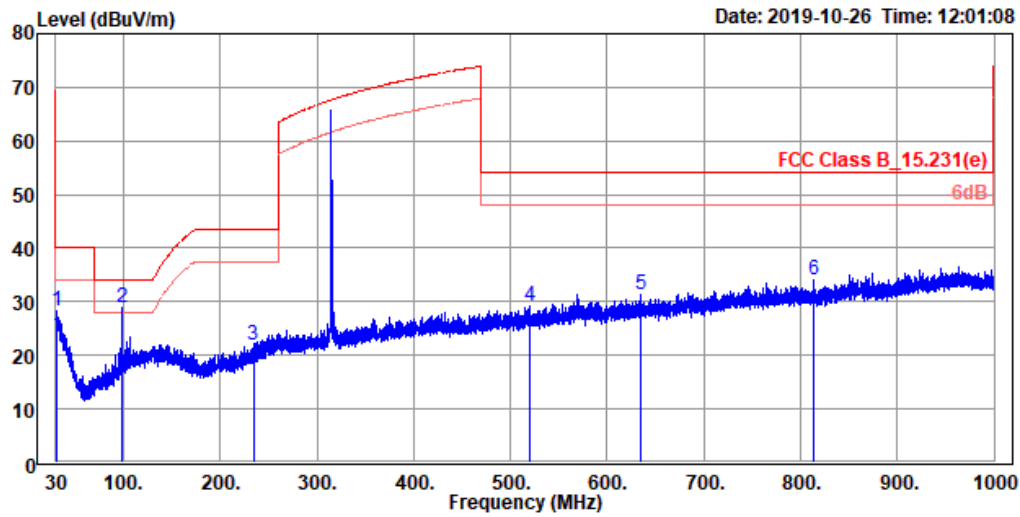
Site : 966A Chamber A
Condition : FCC Class B_15.231(e) 3m vertical
Test Engineer: Chunyi
Product : TPMS
Model NO : RSI-08
Mode : TX_434MHz
Test Rating : 3Vdc
Tmp/Hum : 23.5°C/67%

	Freq	Read	Factor	Level	Limit	Over	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	0.150	24.20	17.91	42.11	104.08	-61.97	100	169	QP	
2	8.663	15.80	20.11	35.91	69.50	-33.59	100	59	QP	
3	13.081	14.75	20.71	35.46	69.50	-34.04	100	158	QP	
4	17.397	15.34	21.14	36.48	69.50	-33.02	100	207	QP	
5	23.845	17.44	21.57	39.01	69.50	-30.49	100	360	QP	
6	27.648	16.55	21.75	38.30	69.50	-31.20	100	103	QP	

Spurious Emissions, TX Mode, 30MHz-1GHz

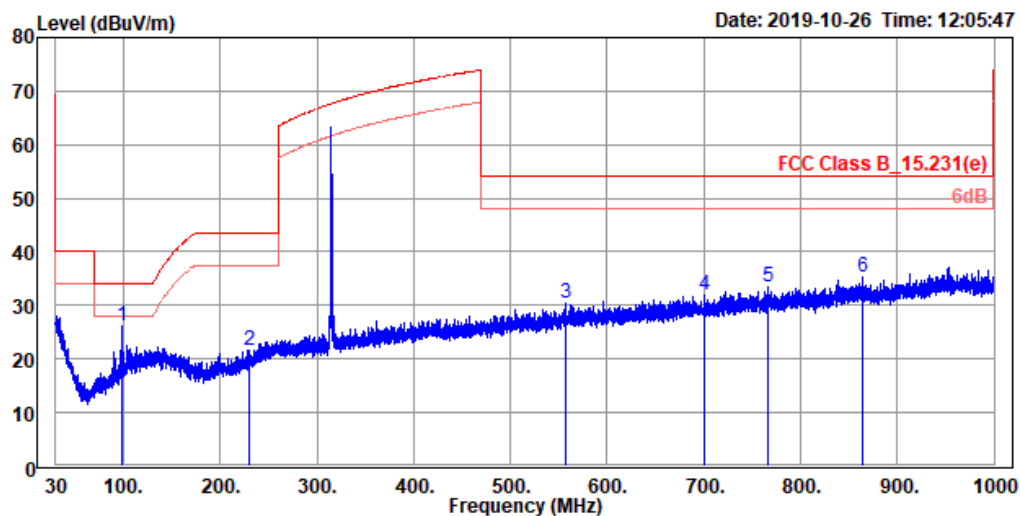


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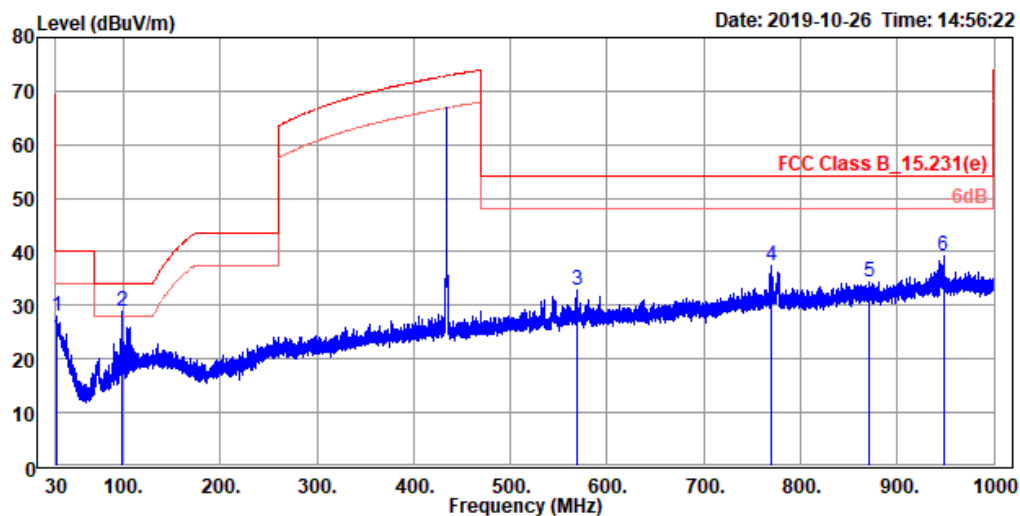
Site : 966A Chamber A
Condition : FCC Class B_15.231(e) 3m horizontal
Test Engineer: Chunyi
Product : TPMS
Model NO : RSI-08
Mode : TX_315MHz
Test Rating : 3Vdc
Tmp/Hum : 23.5°C/67%

	Freq	Read		Limit	Over	APos	TPos		
	MHz	Level	Factor	Level	Line	Limit		Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	31.358	29.01	-0.81	28.20	40.00	-11.80	100	322	QP
2	97.609	38.69	-9.73	28.96	33.98	-5.02	200	346	QP
3	234.185	29.11	-7.30	21.81	43.52	-21.71	200	289	QP
4	520.238	30.05	-0.94	29.11	54.00	-24.89	400	96	QP
5	635.086	30.75	0.69	31.44	54.00	-22.56	300	39	QP
6	813.372	31.16	2.84	34.00	54.00	-20.00	300	78	QP



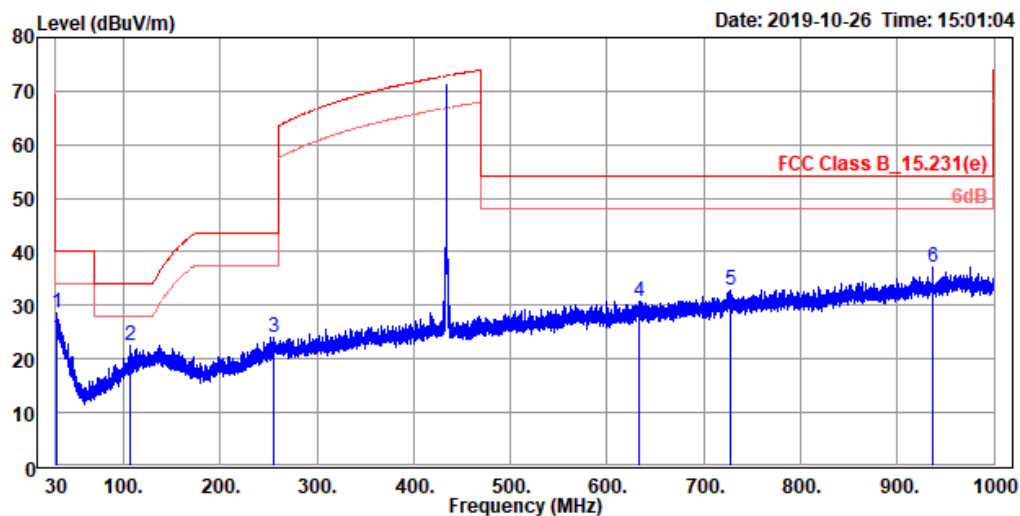
Site : 966A Chamber A
Condition : FCC Class B_15.231(e) 3m vertical
Test Engineer: Chunyi
Product : TPMS
Model NO : RSI-08
Mode : TX_315MHz
Test Rating : 3Vdc
Tmp/Hum : 23.5°C/67%

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	97.609	35.85	-9.73	26.12	33.98	-7.86	400	225	QP	
2	229.917	29.18	-7.57	21.61	43.52	-21.91	400	201	QP	
3	557.486	30.84	-0.34	30.50	54.00	-23.50	300	338	QP	
4	700.270	30.89	1.15	32.04	54.00	-21.96	293	0	QP	
5	766.715	30.90	2.51	33.41	54.00	-20.59	196	0	QP	
6	863.812	31.32	4.07	35.39	54.00	-18.61	400	149	QP	



Site : 966A Chamber A
Condition : FCC Class B_15.231(e) 3m horizontal
Test Engineer: Chunyi
Product : TPMS
Model NO : RSI-08
Mode : TX_434MHz
Test Rating : 3Vdc
Tmp/Hum : 23.5°C/67%

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	30.582	28.28	-0.42	27.86	40.00	-12.14	200	295	QP	
2	97.609	38.61	-9.73	28.88	33.98	-5.10	201	0	QP	
3	569.126	32.89	0.07	32.96	54.00	-21.04	200	0	QP	
4	769.431	34.79	2.52	37.31	54.00	-16.69	173	360	QP	
5	871.281	30.56	3.91	34.47	54.00	-19.53	300	160	QP	
6	947.717	34.00	5.33	39.33	54.00	-14.67	162	360	QP	



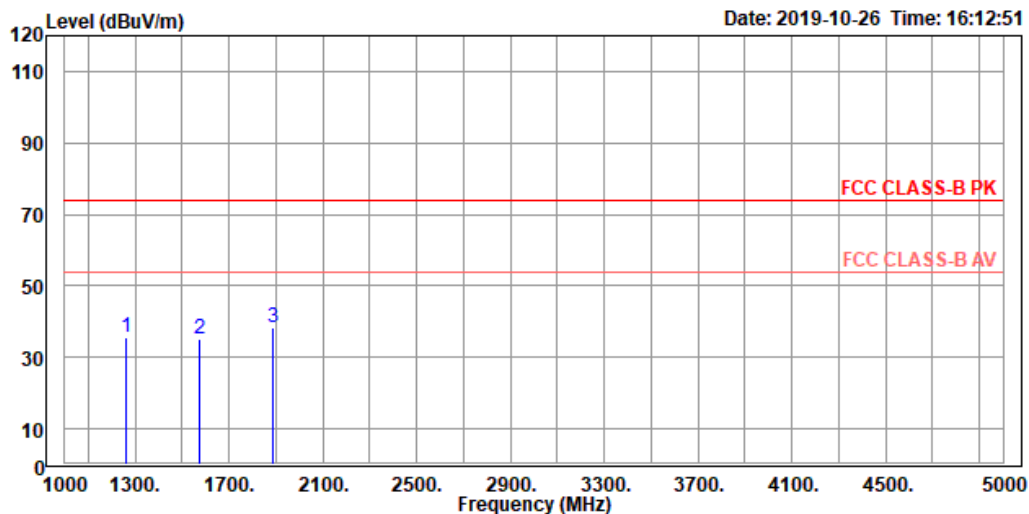
Site : 966A Chamber A
Condition : FCC Class B_15.231(e) 3m vertical
Test Engineer: Chunyi
Product : TPMS
Model NO : RSI-08
Mode : TX_434MHz
Test Rating : 3Vdc
Tmp/Hum : 23.5°C/67%

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	30.776	29.19	-0.52	28.67	40.00	-11.33	300	57	QP	
2	106.533	30.82	-8.37	22.45	33.98	-11.53	100	260	QP	
3	254.943	29.40	-5.37	24.03	43.52	-19.49	196	360	QP	
4	633.049	30.10	0.65	30.75	54.00	-23.25	143	360	QP	
5	726.848	30.77	1.98	32.75	54.00	-21.25	200	360	QP	
6	936.174	31.87	5.10	36.97	54.00	-17.03	400	299	QP	

Spurious Emissions, TX Mode, 1GHz-5GHz

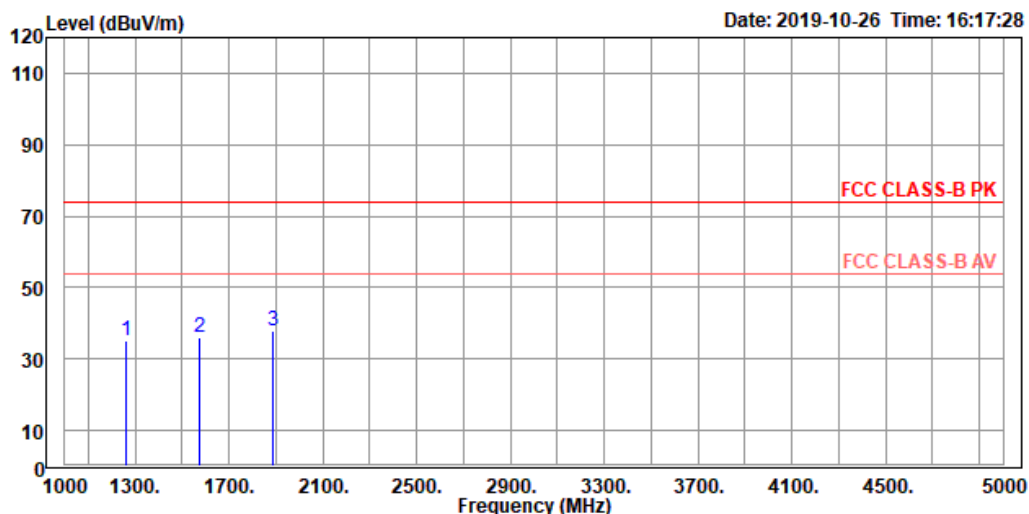


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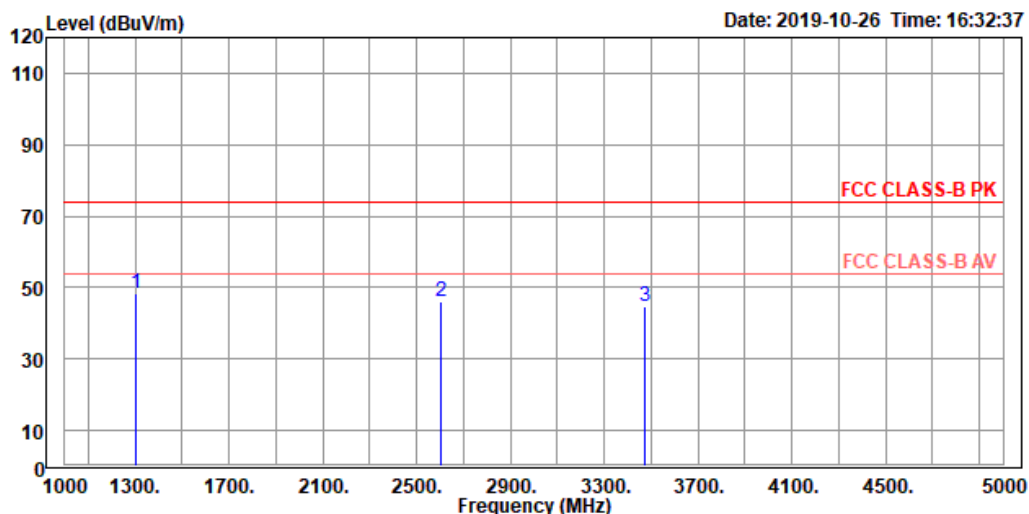
Site : 966A Chamber A
Condition : FCC CLASS-B PK 3m horizontal
Test Engineer: Chunyi
Product : TPMS
Model NO : RSI-08
Mode : TX_315MHz
Test Rating : 3Vdc
Tmp/Hum : 23.5°C/67%

	Freq	Read	Level	Limit	Over	APos	TPos	Remark	Note
	MHz	Level	Factor	Line	Limit				
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg	
1	1260.000	45.22	-9.81	35.41	74.00	-38.59	300	202	Peak
2	1575.200	46.47	-11.30	35.17	74.00	-38.83	400	240	Peak
3	1889.600	47.24	-9.00	38.24	74.00	-35.76	400	2	Peak



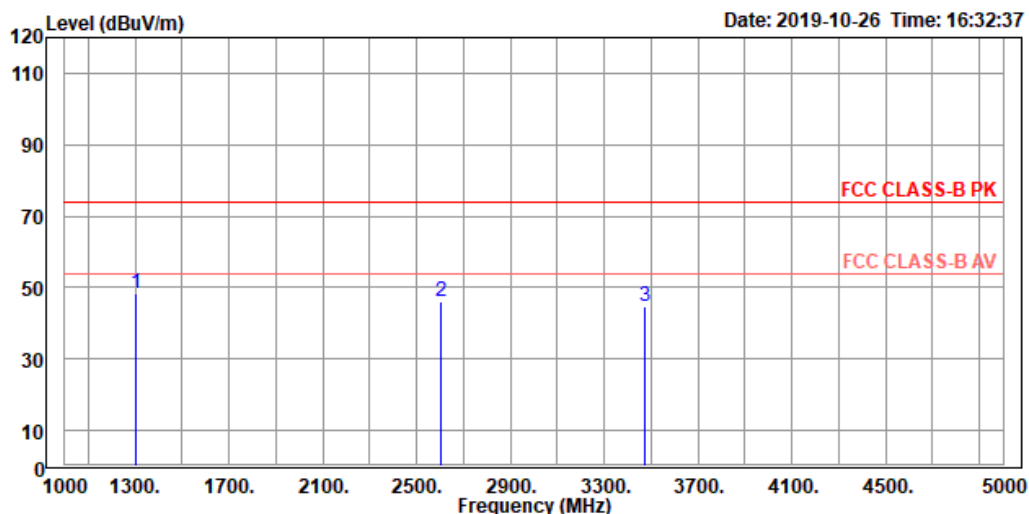
Site : 966A Chamber A
Condition : FCC CLASS-B PK 3m vertical
Test Engineer: Chunyi
Product : TPMS
Model NO : RSI-08
Mode : TX_315MHz
Test Rating : 3Vdc
Tmp/Hum : 23.5°C/67%

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	1260.000	45.06	-9.81	35.25	74.00	-38.75	100	256	Peak	
2	1575.200	47.15	-11.30	35.85	74.00	-38.15	214	1	Peak	
3	1889.600	46.92	-9.00	37.92	74.00	-36.08	400	25	Peak	



Site : 966A Chamber A
Condition : FCC CLASS-B PK 3m vertical
Test Engineer: Chunyi
Product : TPMS
Model NO : RSI-08
Mode : TX_434MHz
Test Rating : 3Vdc
Tmp/Hum : 23.5°C/67%

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	1301.600	58.41	-10.24	48.17	74.00	-25.83	140	360	Peak	
2	2604.000	54.26	-8.08	46.18	74.00	-27.82	400	105	Peak	
3	3472.000	51.38	-6.62	44.76	74.00	-29.24	178	360	Peak	



Site : 966A Chamber A
 Condition : FCC CLASS-B PK 3m vertical
 Test Engineer: Chunyi
 Product : TPMS
 Model NO : RSI-08
 Mode : TX_434MHz
 Test Rating : 3Vdc
 Tmp/Hum : 23.5°C/67%

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	APos	TPos	Remark	Note
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	deg		
1	1301.600	58.41	-10.24	48.17	74.00	-25.83	140	360	Peak	
2	2604.000	54.26	-8.08	46.18	74.00	-27.82	400	105	Peak	
3	3472.000	51.38	-6.62	44.76	74.00	-29.24	178	360	Peak	