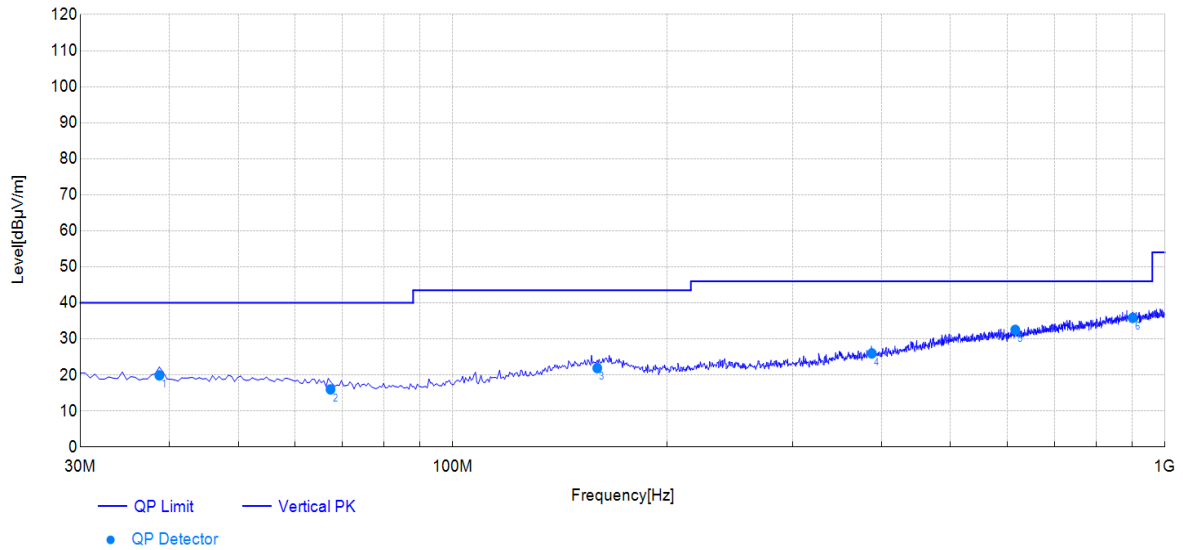


EUT:	Multi-State Sensor P100	Polarity:	Vertical
Model:	VB-S03E	Test Engineer:	Stone Zhang
Mode:	Transmit at Zigbee Channel 11	Voltage:	DC 3V
Environment:	Temp: 21.8~29.6°C; Humi: 32~61%	Test Date:	2025-11-18 ~ 2025-11-25

Test Graph



Final Data List										
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	38.73	13.03	6.87	19.90	40.00	20.10	100	162	Vertical	PASS
2	67.36	11.77	4.23	16.00	40.00	24.00	100	360	Vertical	PASS
3	159.56	17.83	4.09	21.92	43.50	21.58	100	71	Vertical	PASS
4	387.62	18.97	7.01	25.98	46.00	20.02	100	323	Vertical	PASS
5	616.17	23.68	8.85	32.53	46.00	13.47	100	140	Vertical	PASS
6	901.01	28.40	7.46	35.86	46.00	10.14	100	188	Vertical	PASS

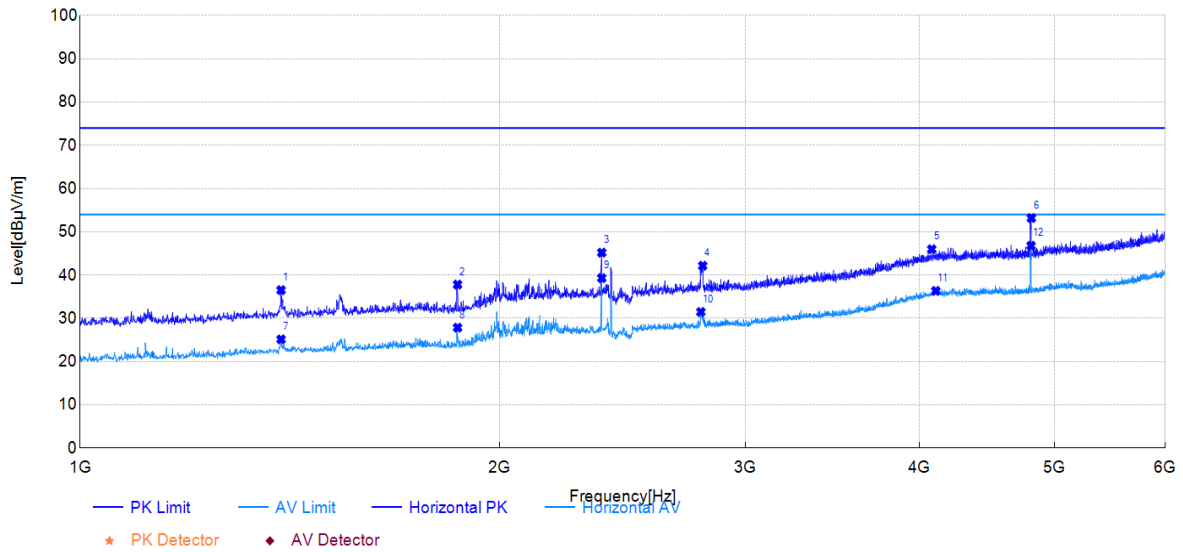
Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

The worst case of Radiated Emission above 1GHz:

1GHz – 6GHz Test Data

EUT:	Multi-State Sensor P100	Polarity:	Horizontal
Model:	VB-S03E	Test Engineer:	Stone Zhang
Mode:	Transmit at Zigbee Channel 11	Voltage:	DC 3V
Environment:	Temp: 21.8~29.6°C; Humi: 32~61%	Test Date:	2025-11-18 ~ 2025-11-25

Test Graph



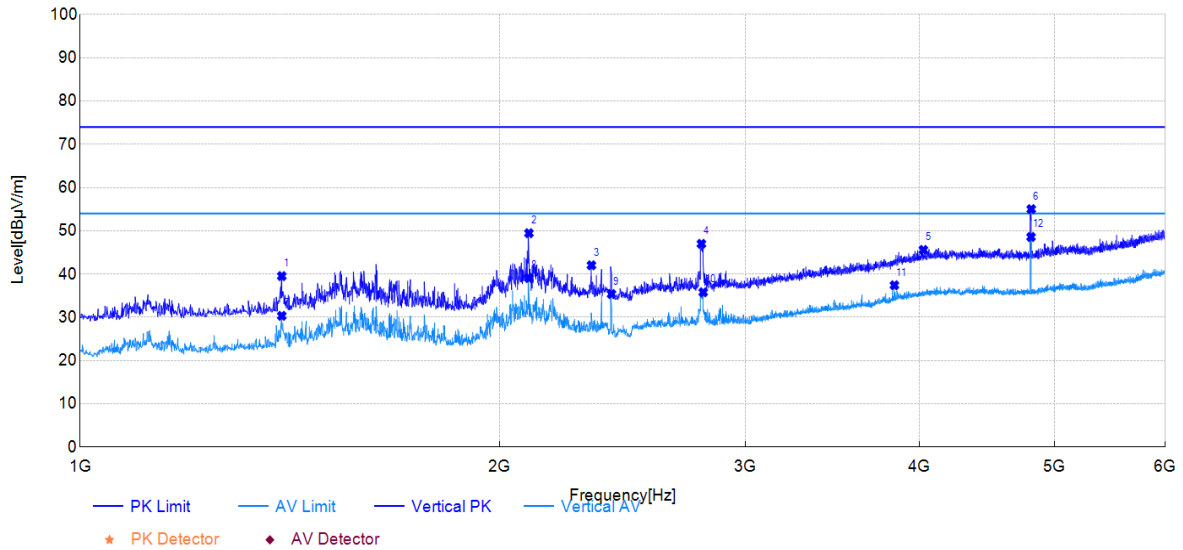
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1393.33	58.70	36.52	-22.18	74.00	37.48	150	97	PK	Horizontal	PASS
2	1865.00	56.82	37.80	-19.02	74.00	36.20	150	115	PK	Horizontal	PASS
3	2366.67	61.83	45.18	-16.65	74.00	28.82	150	183	PK	Horizontal	PASS
4	2795.83	57.39	42.15	-15.24	74.00	31.85	150	123	PK	Horizontal	PASS
5	4081.67	54.18	45.97	-8.21	74.00	28.03	150	360	PK	Horizontal	PASS
6	4811.67	60.08	53.18	-6.90	74.00	20.82	150	137	PK	Horizontal	PASS
7	1393.33	47.31	25.13	-22.18	54.00	28.87	150	334	AV	Horizontal	PASS
8	1865.00	46.86	27.84	-19.02	54.00	26.16	150	115	AV	Horizontal	PASS
9	2366.67	55.95	39.30	-16.65	54.00	14.70	150	183	AV	Horizontal	PASS
10	2787.50	46.71	31.47	-15.24	54.00	22.53	150	123	AV	Horizontal	PASS
11	4109.17	44.46	36.34	-8.12	54.00	17.66	150	210	AV	Horizontal	PASS
12	4809.17	53.68	46.78	-6.90	54.00	7.22	150	137	AV	Horizontal	PASS

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

EUT:	Multi-State Sensor P100	Polarity:	Vertical
Model:	VB-S03E	Test Engineer:	Stone Zhang
Mode:	Transmit at Zigbee Channel 11	Voltage:	DC 3V
Environment:	Temp: 21.8~29.6°C; Humi: 32~61%	Test Date:	2025-11-18 ~ 2025-11-25

Test Graph



Suspected Data List

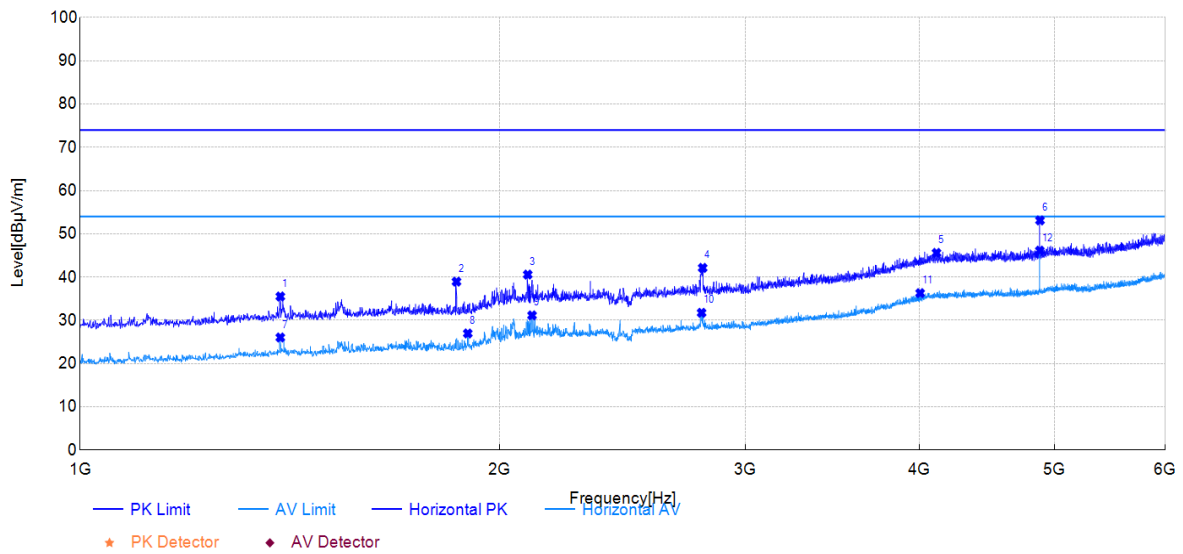
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1395.00	60.87	39.53	-21.34	74.00	34.47	150	97	PK	Vertical	PASS
2	2098.33	67.06	49.45	-17.61	74.00	24.55	150	82	PK	Vertical	PASS
3	2326.67	58.82	42.03	-16.79	74.00	31.97	150	359	PK	Vertical	PASS
4	2790.00	62.07	46.99	-15.08	74.00	27.01	150	104	PK	Vertical	PASS
5	4025.83	53.87	45.58	-8.29	74.00	28.42	150	327	PK	Vertical	PASS
6	4810.83	62.36	55.01	-7.35	74.00	18.99	150	150	PK	Vertical	PASS
7	1395.00	51.68	30.34	-21.34	54.00	23.66	150	97	AV	Vertical	PASS
8	2098.33	56.69	39.08	-17.61	54.00	14.92	150	82	AV	Vertical	PASS
9	2405.00	51.80	35.38	-16.42	54.00	18.62	150	146	AV	Vertical	PASS
10	2798.33	50.86	35.79	-15.07	54.00	18.21	150	104	AV	Vertical	PASS
11	3837.50	46.78	37.41	-9.37	54.00	16.59	150	135	AV	Vertical	PASS
12	4809.17	55.93	48.58	-7.35	54.00	5.42	150	146	AV	Vertical	PASS

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

1GHz – 6GHz Test Data

EUT:	Multi-State Sensor P100	Polarity:	Horizontal
Model:	VB-S03E	Test Engineer:	Stone Zhang
Mode:	Transmit at Zigbee Channel 18	Voltage:	DC 3V
Environment:	Temp: 21.8~29.6°C; Humi: 32~61%	Test Date:	2025-11-18 ~ 2025-11-25

Test Graph



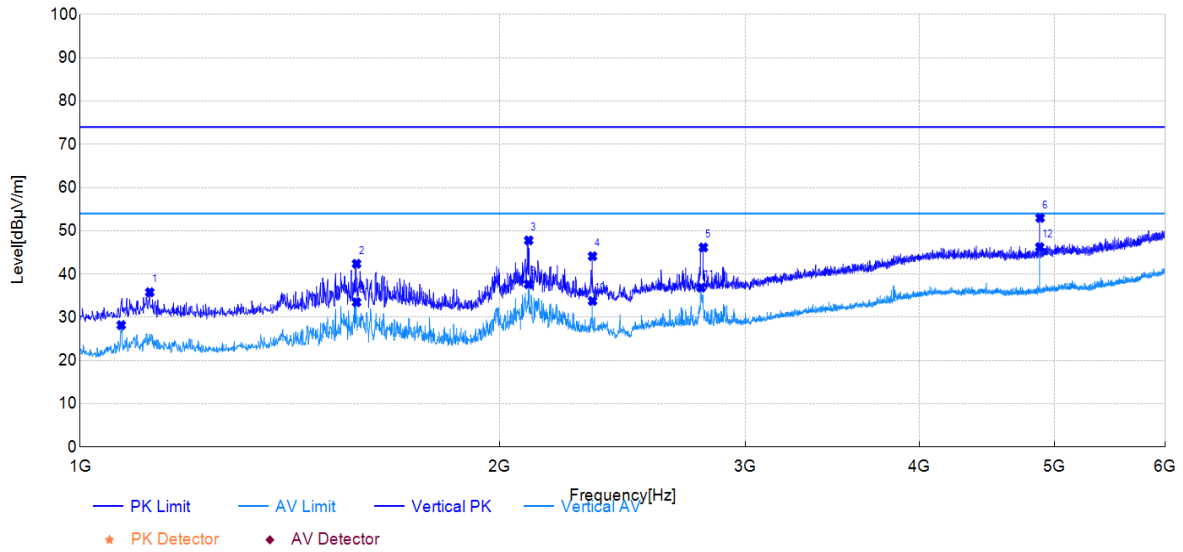
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1391.67	57.70	35.51	-22.19	74.00	38.49	150	349	PK	Horizontal	PASS
2	1861.67	57.98	38.94	-19.04	74.00	35.06	150	137	PK	Horizontal	PASS
3	2094.17	58.15	40.57	-17.58	74.00	33.43	150	118	PK	Horizontal	PASS
4	2795.83	57.36	42.12	-15.24	74.00	31.88	150	125	PK	Horizontal	PASS
5	4114.17	53.71	45.59	-8.12	74.00	28.41	150	241	PK	Horizontal	PASS
6	4880.83	59.78	53.10	-6.68	74.00	20.90	150	157	PK	Horizontal	PASS
7	1391.67	48.22	26.03	-22.19	54.00	27.97	150	349	AV	Horizontal	PASS
8	1896.67	45.83	26.96	-18.87	54.00	27.04	150	129	AV	Horizontal	PASS
9	2109.17	48.66	31.14	-17.52	54.00	22.86	150	129	AV	Horizontal	PASS
10	2790.83	46.97	31.73	-15.24	54.00	22.27	150	125	AV	Horizontal	PASS
11	4004.17	44.85	36.29	-8.56	54.00	17.71	150	181	AV	Horizontal	PASS
12	4879.17	52.80	46.11	-6.69	54.00	7.89	150	134	AV	Horizontal	PASS

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

EUT:	Multi-State Sensor P100	Polarity:	Vertical
Model:	VB-S03E	Test Engineer:	Stone Zhang
Mode:	Transmit at Zigbee Channel 18	Voltage:	DC 3V
Environment:	Temp: 21.8~29.6°C; Humi: 32~61%	Test Date:	2025-11-18 ~ 2025-11-25

Test Graph



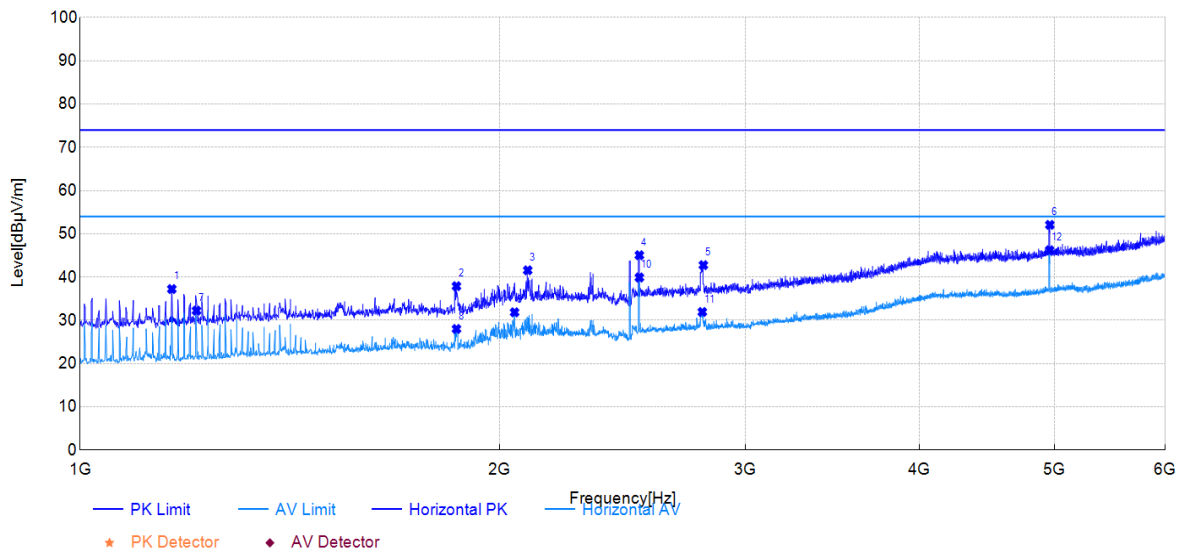
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1121.67	58.73	35.79	-22.94	74.00	38.21	150	263	PK	Vertical	PASS
2	1578.33	62.84	42.38	-20.46	74.00	31.62	150	98	PK	Vertical	PASS
3	2097.50	65.41	47.79	-17.62	74.00	26.21	150	101	PK	Vertical	PASS
4	2330.83	60.90	44.13	-16.77	74.00	29.87	150	29	PK	Vertical	PASS
5	2799.17	61.22	46.15	-15.07	74.00	27.85	150	109	PK	Vertical	PASS
6	4881.67	60.17	52.98	-7.19	74.00	21.02	150	150	PK	Vertical	PASS
7	1070.00	51.33	28.18	-23.15	54.00	25.82	150	93	AV	Vertical	PASS
8	1578.33	53.94	33.48	-20.46	54.00	20.52	150	98	AV	Vertical	PASS
9	2096.67	55.29	37.66	-17.63	54.00	16.34	150	101	AV	Vertical	PASS
10	2330.83	50.55	33.78	-16.77	54.00	20.22	150	29	AV	Vertical	PASS
11	2789.17	51.95	36.87	-15.08	54.00	17.13	150	105	AV	Vertical	PASS
12	4879.17	53.42	46.23	-7.19	54.00	7.77	150	150	AV	Vertical	PASS

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

1GHz – 6GHz Test Data

EUT:	Multi-State Sensor P100	Polarity:	Horizontal
Model:	VB-S03E	Test Engineer:	Stone Zhang
Mode:	Transmit at Zigbee Channel 26	Voltage:	DC 3V
Environment:	Temp: 21.8~29.6°C; Humi: 32~61%	Test Date:	2025-11-18 ~ 2025-11-25

Test Graph

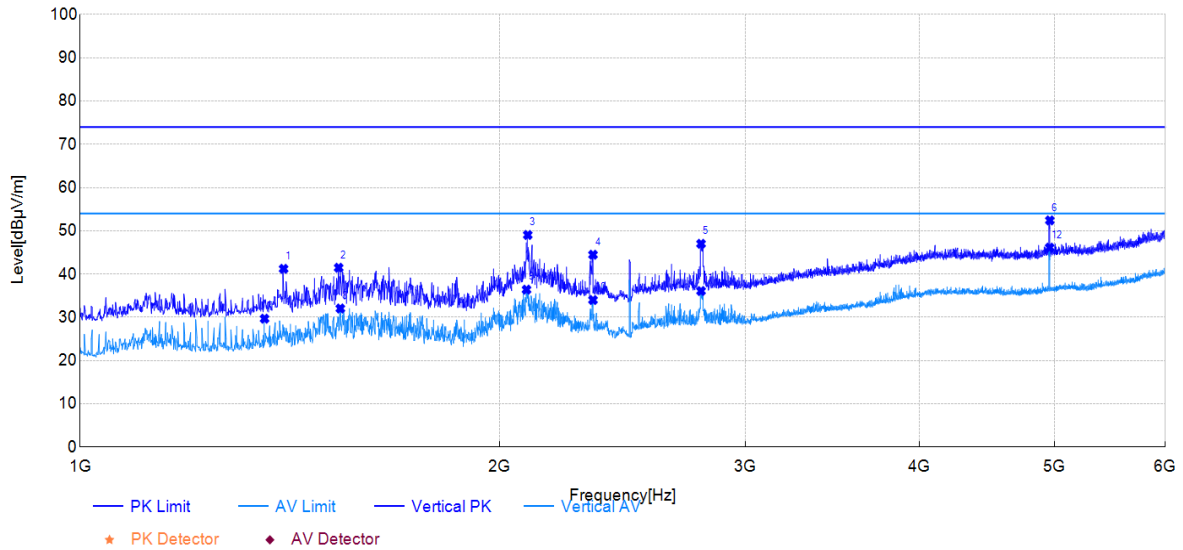


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1163.33	60.85	37.23	-23.62	74.00	36.77	150	134	PK	Horizontal	PASS
2	1861.67	56.93	37.89	-19.04	74.00	36.11	150	120	PK	Horizontal	PASS
3	2094.17	59.14	41.56	-17.58	74.00	32.44	150	73	PK	Horizontal	PASS
4	2518.33	61.08	45.05	-16.03	74.00	28.95	150	176	PK	Horizontal	PASS
5	2799.17	57.99	42.76	-15.23	74.00	31.24	150	120	PK	Horizontal	PASS
6	4960.83	58.39	52.07	-6.32	74.00	21.93	150	154	PK	Horizontal	PASS
7	1211.67	55.63	32.23	-23.40	54.00	21.77	150	54	AV	Horizontal	PASS
8	1861.67	47.04	28.00	-19.04	54.00	26.00	150	111	AV	Horizontal	PASS
9	2049.17	49.61	31.85	-17.76	54.00	22.15	150	127	AV	Horizontal	PASS
10	2518.33	55.93	39.90	-16.03	54.00	14.10	150	176	AV	Horizontal	PASS
11	2794.17	47.16	31.93	-15.23	54.00	22.07	150	123	AV	Horizontal	PASS
12	4959.17	52.51	46.19	-6.32	54.00	7.81	150	158	AV	Horizontal	PASS

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

EUT:	Multi-State Sensor P100	Polarity:	Vertical
Model:	VB-S03E	Test Engineer:	Stone Zhang
Mode:	Transmit at Zigbee Channel 26	Voltage:	DC 3V
Environment:	Temp: 21.8~29.6°C; Humi: 32~61%	Test Date:	2025-11-18 ~ 2025-11-25

Test Graph



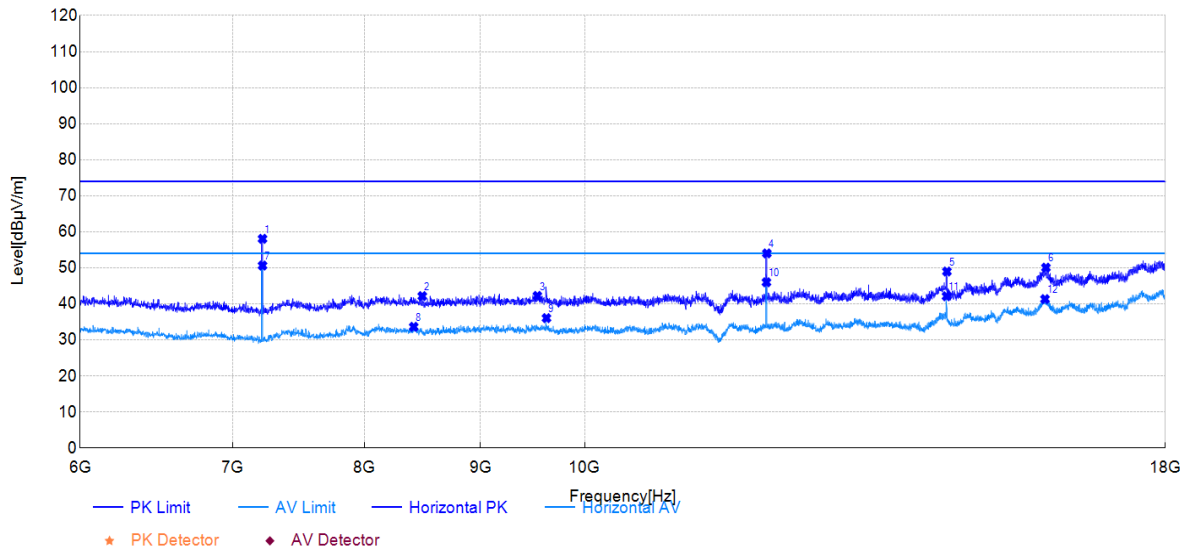
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1399.17	62.52	41.21	-21.31	74.00	32.79	150	82	PK	Vertical	PASS
2	1532.50	62.15	41.46	-20.69	74.00	32.54	150	89	PK	Vertical	PASS
3	2094.17	66.68	49.04	-17.64	74.00	24.96	150	158	PK	Vertical	PASS
4	2332.50	61.23	44.47	-16.76	74.00	29.53	150	359	PK	Vertical	PASS
5	2788.33	62.09	47.00	-15.09	74.00	27.00	150	101	PK	Vertical	PASS
6	4960.83	59.30	52.41	-6.89	74.00	21.59	150	339	PK	Vertical	PASS
7	1355.83	51.31	29.68	-21.63	54.00	24.32	150	105	AV	Vertical	PASS
8	1536.67	52.71	32.04	-20.67	54.00	21.96	150	89	AV	Vertical	PASS
9	2090.00	54.06	36.40	-17.66	54.00	17.60	150	97	AV	Vertical	PASS
10	2332.50	50.76	34.00	-16.76	54.00	20.00	150	358	AV	Vertical	PASS
11	2788.33	51.17	36.08	-15.09	54.00	17.92	150	109	AV	Vertical	PASS
12	4959.17	53.00	46.11	-6.89	54.00	7.89	150	343	AV	Vertical	PASS

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

6GHz – 18GHz Test Data

EUT:	Multi-State Sensor P100	Polarity:	Horizontal
Model:	VB-S03E	Test Engineer:	Stone Zhang
Mode:	Transmit at Zigbee Channel 11	Voltage:	DC 3V
Environment:	Temp: 21.8~29.6°C; Humi: 32~61%	Test Date:	2025-11-18 ~ 2025-11-25

Test Graph



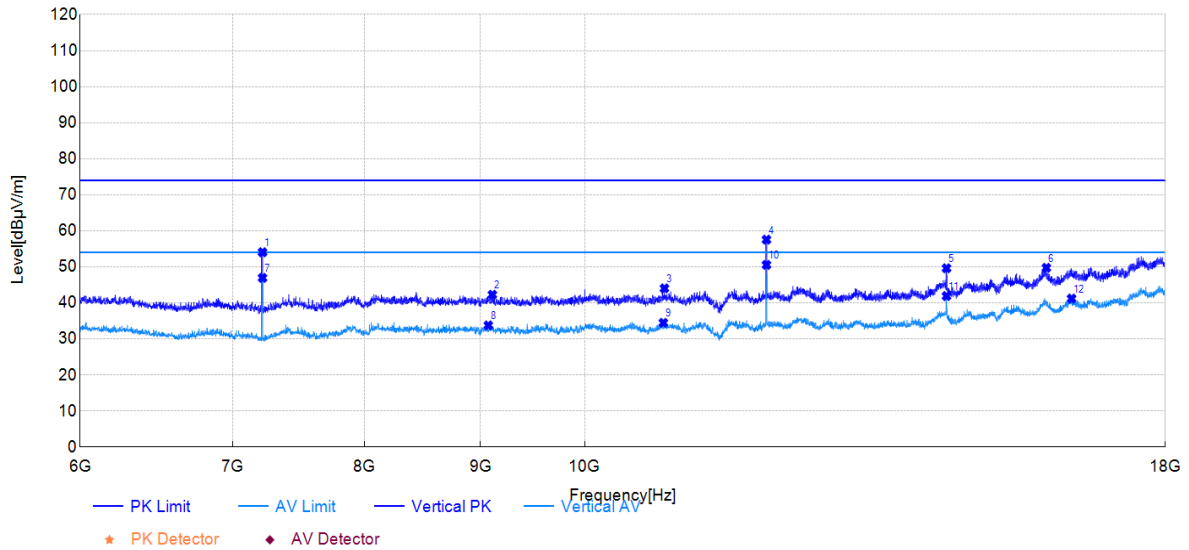
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	7216.50	62.20	58.06	-4.14	74.00	15.94	150	327	PK	Horizontal	PASS
2	8484.00	43.77	42.16	-1.61	74.00	31.84	150	276	PK	Horizontal	PASS
3	9532.50	41.97	42.23	0.26	74.00	31.77	150	214	PK	Horizontal	PASS
4	12027.00	52.51	54.02	1.51	74.00	19.98	150	26	PK	Horizontal	PASS
5	14433.00	44.18	48.98	4.80	74.00	25.02	150	3	PK	Horizontal	PASS
6	15955.50	40.45	50.06	9.61	74.00	23.94	150	137	PK	Horizontal	PASS
7	7216.50	54.77	50.63	-4.14	54.00	3.37	150	156	AV	Horizontal	PASS
8	8410.50	34.82	33.64	-1.18	54.00	20.36	150	211	AV	Horizontal	PASS
9	9621.00	36.20	36.05	-0.15	54.00	17.95	150	111	AV	Horizontal	PASS
10	12022.50	44.48	46.00	1.52	54.00	8.00	150	29	AV	Horizontal	PASS
11	14427.00	37.27	42.12	4.85	54.00	11.88	150	6	AV	Horizontal	PASS
12	15940.50	31.72	41.33	9.61	54.00	12.67	150	29	AV	Horizontal	PASS

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

EUT:	Multi-State Sensor P100	Polarity:	Vertical
Model:	VB-S03E	Test Engineer:	Stone Zhang
Mode:	Transmit at Zigbee Channel 11	Voltage:	DC 3V
Environment:	Temp: 21.8~29.6°C; Humi: 32~61%	Test Date:	2025-11-18 ~ 2025-11-25

Test Graph



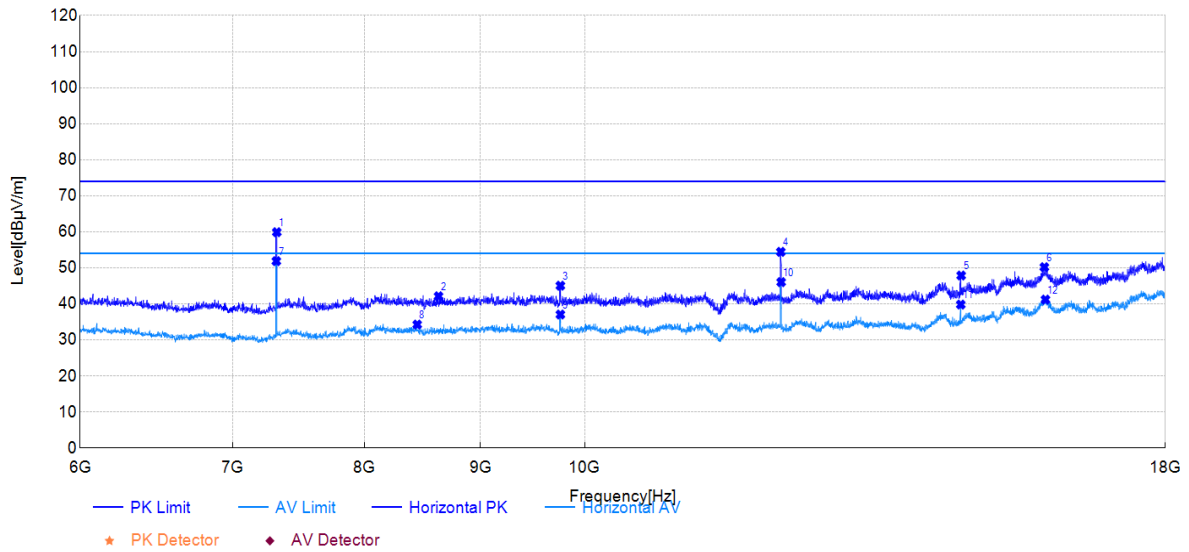
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	7216.50	58.02	54.06	-3.96	74.00	19.94	150	115	PK	Vertical	PASS
2	9108.00	43.37	42.26	-1.11	74.00	31.74	150	53	PK	Vertical	PASS
3	10842.00	43.30	44.03	0.73	74.00	29.97	150	29	PK	Vertical	PASS
4	12022.50	55.82	57.55	1.73	74.00	16.45	150	41	PK	Vertical	PASS
5	14427.00	44.39	49.61	5.22	74.00	24.39	150	22	PK	Vertical	PASS
6	15963.00	40.69	49.73	9.04	74.00	24.27	150	57	PK	Vertical	PASS
7	7216.50	50.90	46.94	-3.96	54.00	7.06	150	115	AV	Vertical	PASS
8	9070.50	34.84	33.76	-1.08	54.00	20.24	150	208	AV	Vertical	PASS
9	10830.00	33.80	34.48	0.68	54.00	19.52	150	216	AV	Vertical	PASS
10	12022.50	48.81	50.54	1.73	54.00	3.46	150	38	AV	Vertical	PASS
11	14427.00	36.68	41.90	5.22	54.00	12.10	150	33	AV	Vertical	PASS
12	16375.50	31.51	41.20	9.69	54.00	12.80	150	236	AV	Vertical	PASS

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

6GHz – 18GHz Test Data

EUT:	Multi-State Sensor P100	Polarity:	Horizontal
Model:	VB-S03E	Test Engineer:	Stone Zhang
Mode:	Transmit at Zigbee Channel 18	Voltage:	DC 3V
Environment:	Temp: 21.8~29.6°C; Humi: 32~61%	Test Date:	2025-11-18 ~ 2025-11-25

Test Graph



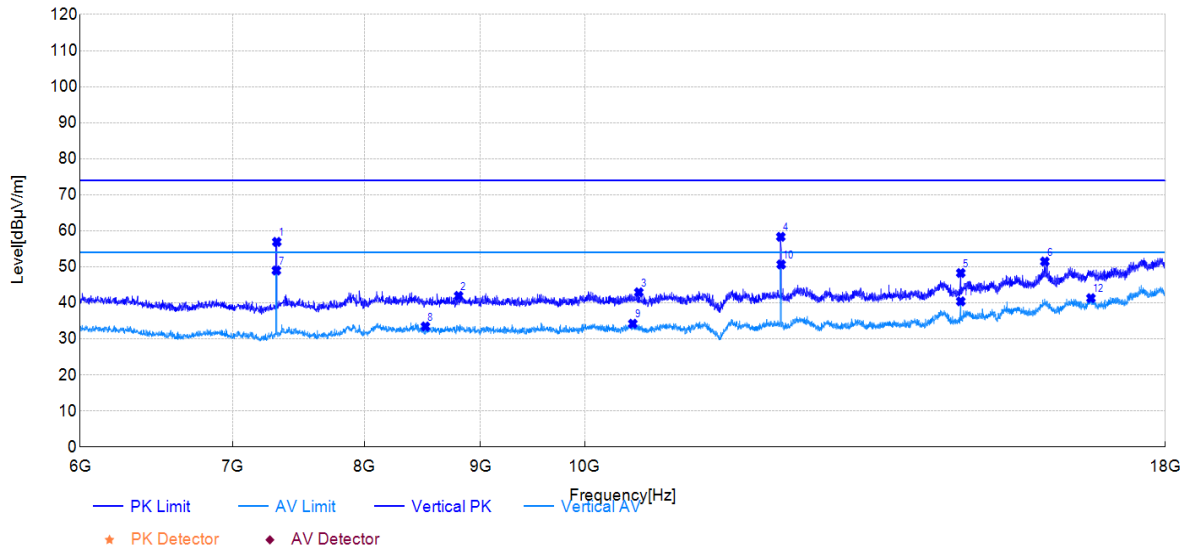
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	7321.50	63.19	59.90	-3.29	74.00	14.10	150	328	PK	Horizontal	PASS
2	8625.00	43.38	42.11	-1.27	74.00	31.89	150	333	PK	Horizontal	PASS
3	9757.50	45.45	45.05	-0.40	74.00	28.95	150	3	PK	Horizontal	PASS
4	12198.00	52.73	54.44	1.71	74.00	19.56	150	22	PK	Horizontal	PASS
5	14643.00	43.23	47.87	4.64	74.00	26.13	150	340	PK	Horizontal	PASS
6	15930.00	40.57	50.19	9.62	74.00	23.81	150	148	PK	Horizontal	PASS
7	7318.50	55.18	51.86	-3.32	54.00	2.14	150	333	AV	Horizontal	PASS
8	8440.50	35.62	34.27	-1.35	54.00	19.73	150	72	AV	Horizontal	PASS
9	9757.50	37.45	37.05	-0.40	54.00	16.95	150	3	AV	Horizontal	PASS
10	12202.50	44.32	46.04	1.72	54.00	7.96	150	29	AV	Horizontal	PASS
11	14637.00	35.22	39.81	4.59	54.00	14.19	150	354	AV	Horizontal	PASS
12	15948.00	31.57	41.19	9.62	54.00	12.81	150	360	AV	Horizontal	PASS

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

EUT:	Multi-State Sensor P100	Polarity:	Vertical
Model:	VB-S03E	Test Engineer:	Stone Zhang
Mode:	Transmit at Zigbee Channel 18	Voltage:	DC 3V
Environment:	Temp: 21.8~29.6°C; Humi: 32~61%	Test Date:	2025-11-18 ~ 2025-11-25

Test Graph



Suspected Data List

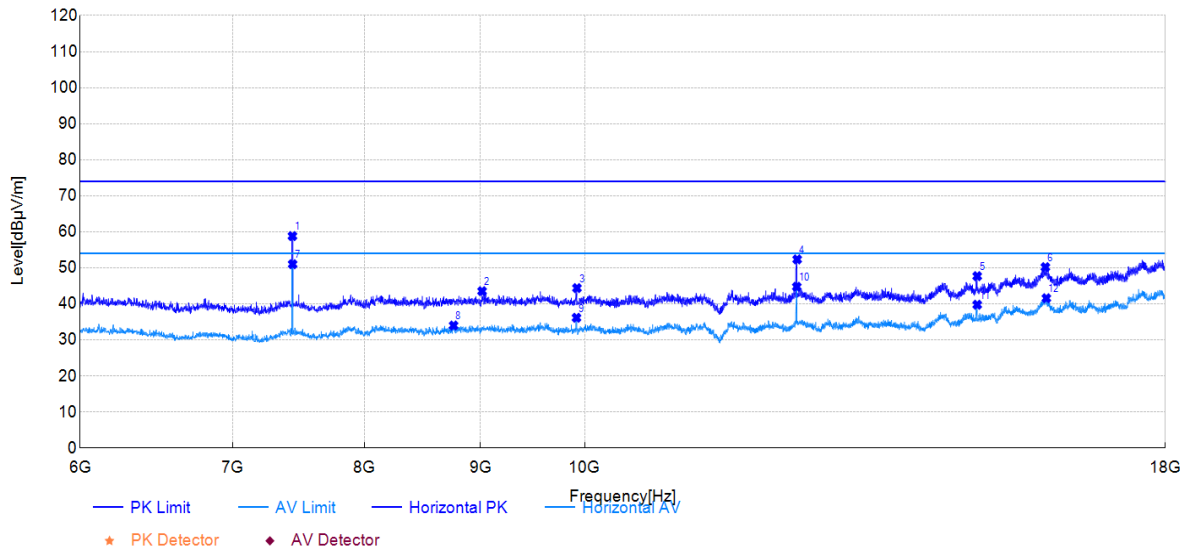
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	7321.50	60.14	56.92	-3.22	74.00	17.08	150	228	PK	Vertical	PASS
2	8802.00	43.15	41.93	-1.22	74.00	32.07	150	60	PK	Vertical	PASS
3	10564.50	42.14	42.93	0.79	74.00	31.07	150	127	PK	Vertical	PASS
4	12198.00	56.31	58.34	2.03	74.00	15.66	150	44	PK	Vertical	PASS
5	14637.00	43.40	48.29	4.89	74.00	25.71	150	51	PK	Vertical	PASS
6	15937.50	42.40	51.47	9.07	74.00	22.53	150	158	PK	Vertical	PASS
7	7318.50	52.23	48.99	-3.24	54.00	5.01	150	259	AV	Vertical	PASS
8	8511.00	35.03	33.45	-1.58	54.00	20.55	150	56	AV	Vertical	PASS
9	10500.00	33.35	34.22	0.87	54.00	19.78	150	9	AV	Vertical	PASS
10	12202.50	48.62	50.66	2.04	54.00	3.34	150	32	AV	Vertical	PASS
11	14637.00	35.53	40.42	4.89	54.00	13.58	150	39	AV	Vertical	PASS
12	16699.50	30.75	41.31	10.56	54.00	12.69	150	247	AV	Vertical	PASS

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

6GHz – 18GHz Test Data

EUT:	Multi-State Sensor P100	Polarity:	Horizontal
Model:	VB-S03E	Test Engineer:	Stone Zhang
Mode:	Transmit at Zigbee Channel 26	Voltage:	DC 3V
Environment:	Temp: 21.8~29.6°C; Humi: 32~61%	Test Date:	2025-11-18 ~ 2025-11-25

Test Graph



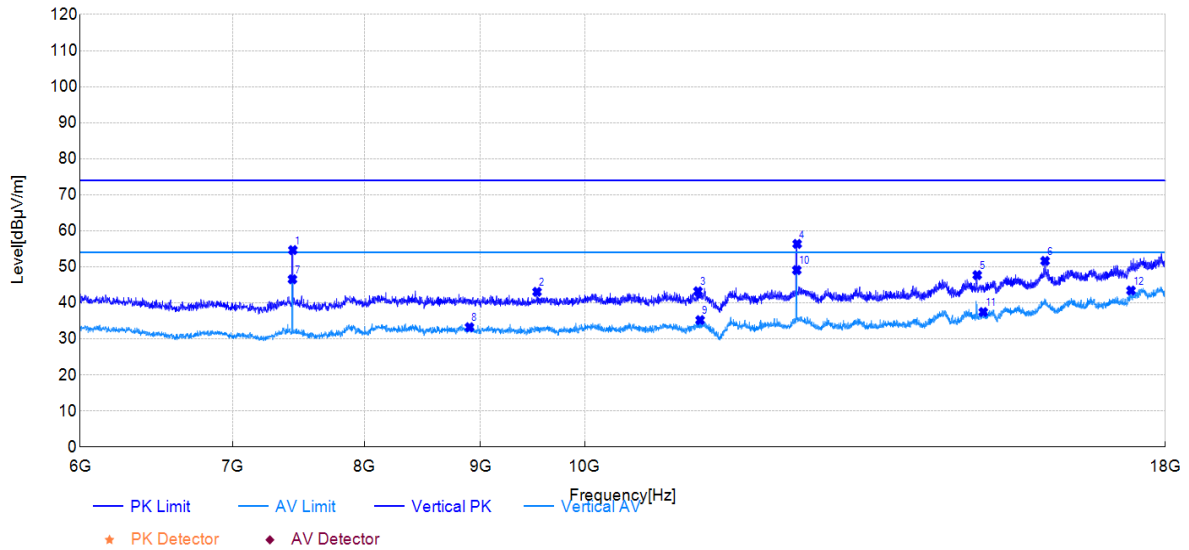
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	7438.50	61.52	58.82	-2.70	74.00	15.18	150	168	PK	Horizontal	PASS
2	9013.50	44.10	43.53	-0.57	74.00	30.47	150	149	PK	Horizontal	PASS
3	9922.50	44.52	44.39	-0.13	74.00	29.61	150	359	PK	Horizontal	PASS
4	12402.00	50.14	52.35	2.21	74.00	21.65	150	37	PK	Horizontal	PASS
5	14883.00	42.93	47.70	4.77	74.00	26.30	150	349	PK	Horizontal	PASS
6	15946.50	40.59	50.20	9.61	74.00	23.80	150	137	PK	Horizontal	PASS
7	7440.00	53.71	51.01	-2.70	54.00	2.99	150	168	AV	Horizontal	PASS
8	8757.00	35.02	34.00	-1.02	54.00	20.00	150	107	AV	Horizontal	PASS
9	9918.00	36.30	36.15	-0.15	54.00	17.85	150	360	AV	Horizontal	PASS
10	12397.50	42.56	44.75	2.19	54.00	9.25	150	34	AV	Horizontal	PASS
11	14883.00	35.00	39.77	4.77	54.00	14.23	150	360	AV	Horizontal	PASS
12	15963.00	31.96	41.57	9.61	54.00	12.43	150	61	AV	Horizontal	PASS

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

EUT:	Multi-State Sensor P100	Polarity:	Vertical
Model:	VB-S03E	Test Engineer:	Stone Zhang
Mode:	Transmit at Zigbee Channel 26	Voltage:	DC 3V
Environment:	Temp: 21.8~29.6°C; Humi: 32~61%	Test Date:	2025-11-18 ~ 2025-11-25

Test Graph



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	7441.50	57.40	54.65	-2.75	74.00	19.35	150	224	PK	Vertical	PASS
2	9529.50	43.36	43.06	-0.30	74.00	30.94	150	49	PK	Vertical	PASS
3	11217.00	42.18	43.22	1.04	74.00	30.78	150	231	PK	Vertical	PASS
4	12402.00	53.71	56.36	2.65	74.00	17.64	150	41	PK	Vertical	PASS
5	14883.00	42.64	47.71	5.07	74.00	26.29	150	17	PK	Vertical	PASS
6	15942.00	42.58	51.64	9.06	74.00	22.36	150	65	PK	Vertical	PASS
7	7438.50	49.29	46.55	-2.74	54.00	7.45	150	220	AV	Vertical	PASS
8	8899.50	34.68	33.25	-1.43	54.00	20.75	150	38	AV	Vertical	PASS
9	11241.00	34.13	35.23	1.10	54.00	18.77	150	4	AV	Vertical	PASS
10	12397.50	46.46	49.09	2.63	54.00	4.91	150	45	AV	Vertical	PASS
11	14974.50	32.18	37.46	5.28	54.00	16.54	150	267	AV	Vertical	PASS
12	17391.00	30.31	43.43	13.12	54.00	10.57	150	80	AV	Vertical	PASS

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 26.5GHz), therefore no data appear in the report.

7.7. Restricted Band Edge Measurement

7.7.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.25 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52480 - 156.525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.7.2. Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.7.3. Test Setting

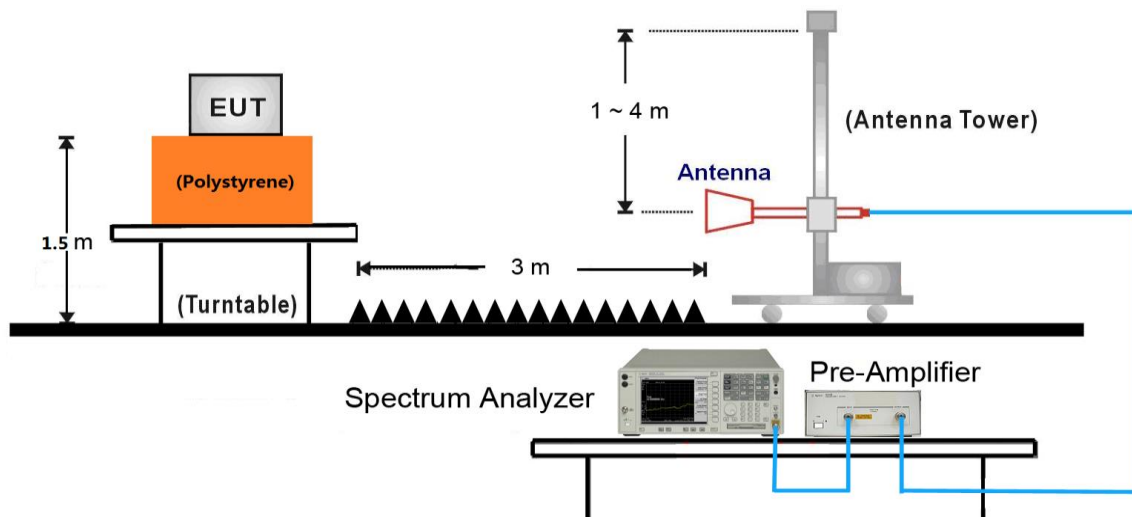
Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Power Average (RMS)
5. Number of sweep point = 2001 (Number of sweep points must be $\geq 2 \times \text{span} / \text{RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces.

7.7.4. Test Setup

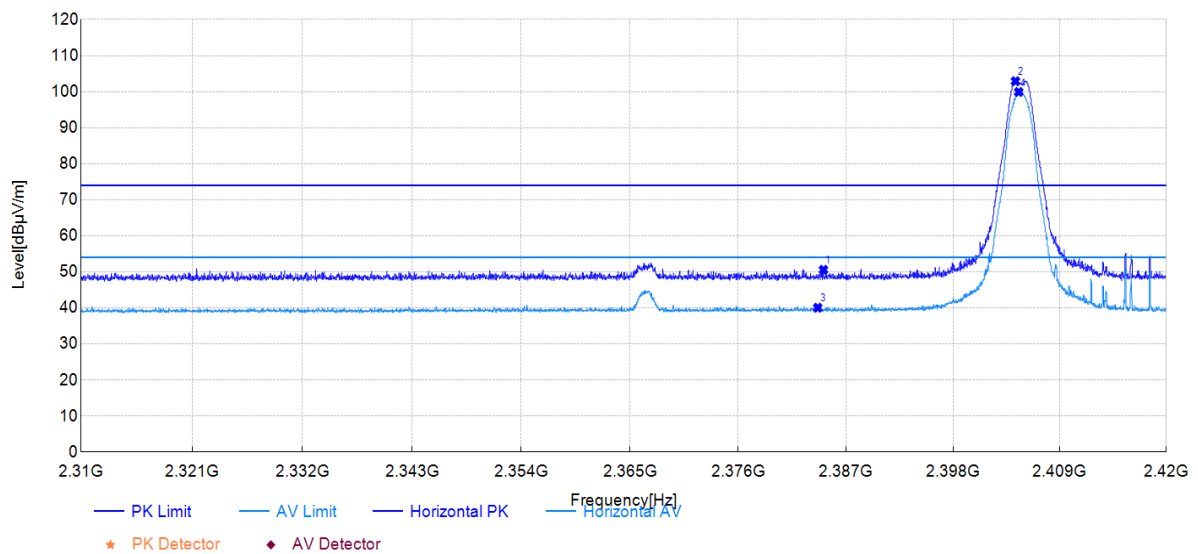


7.7.5. Test Result

Zigbee

Test Mode:	Zigbee	Test Date:	2025-11-18 ~ 2025-11-25
Test Channel:	2405	Test Engineer:	Stone Zhang
Remark:	/		

Test Graph

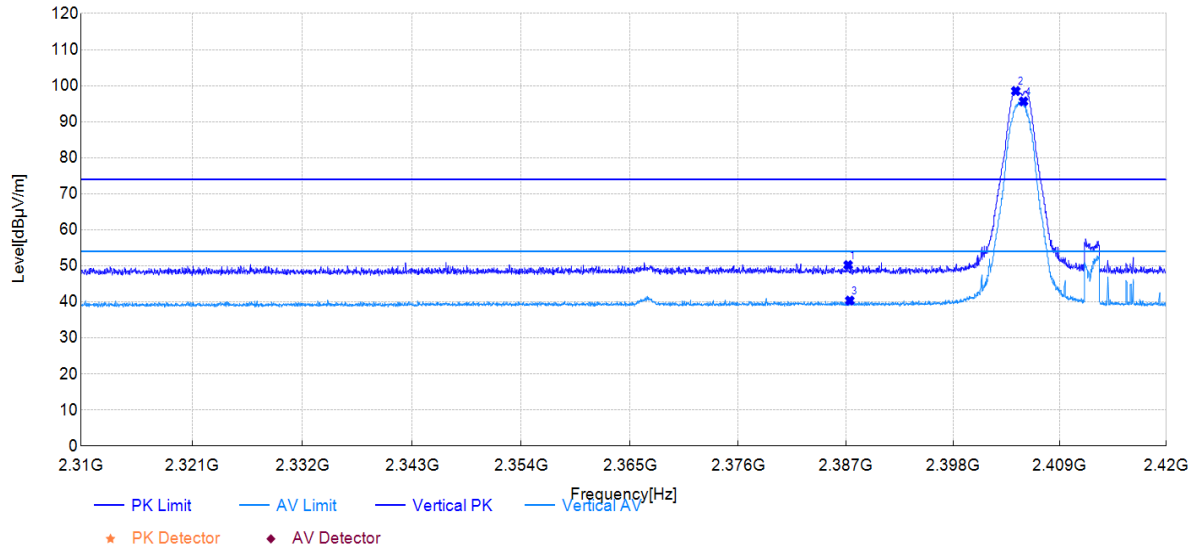


Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2384.71	15.26	50.57	35.31	74.00	23.43	150	85	PK	Horizontal	PASS
2	2404.43	67.61	102.91	35.30	/	/	150	219	PK	Horizontal	PASS
3	2384.13	4.74	40.05	35.31	54.00	13.95	150	70	AV	Horizontal	PASS
4	2404.76	64.60	99.91	35.31	/	/	150	219	AV	Horizontal	PASS

Test Mode:	Zigbee	Test Date:	2025-11-18 ~ 2025-11-25
Test Channel:	2405	Test Engineer:	Stone Zhang
Remark:	/		

Test Graph

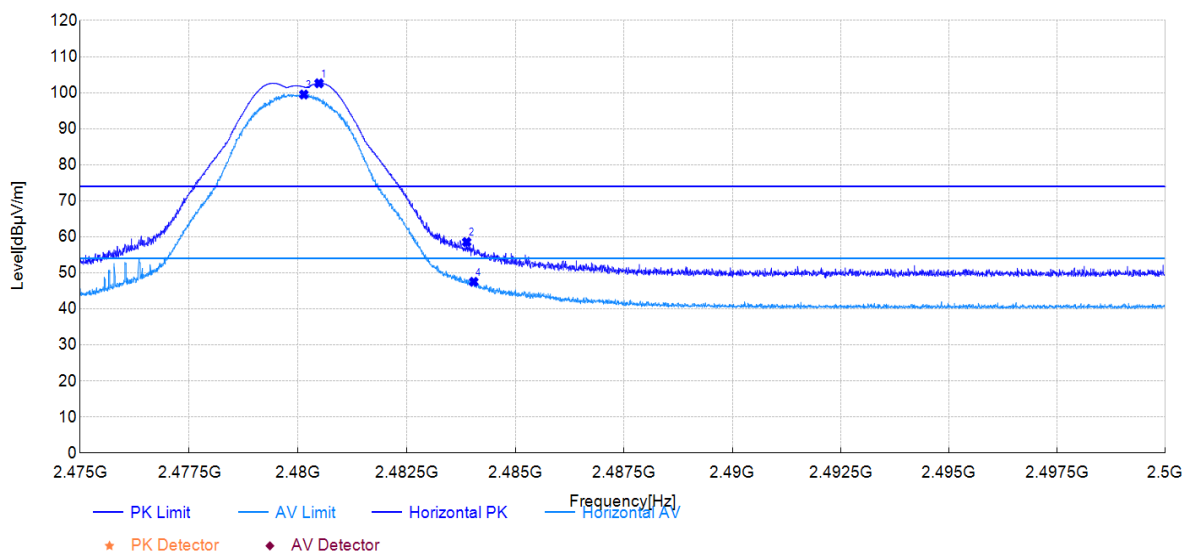


Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2387.24	14.86	50.22	35.36	74.00	23.78	150	312	PK	Vertical	PASS
2	2404.46	63.15	98.51	35.36	/	/	150	146	PK	Vertical	PASS
3	2387.40	5.00	40.36	35.36	54.00	13.64	150	282	AV	Vertical	PASS
4	2405.26	60.26	95.63	35.37	/	/	150	146	AV	Vertical	PASS

Test Mode:	Zigbee	Test Date:	2025-11-18 ~ 2025-11-25
Test Channel:	2480	Test Engineer:	Stone Zhang
Remark:	/		

Test Graph

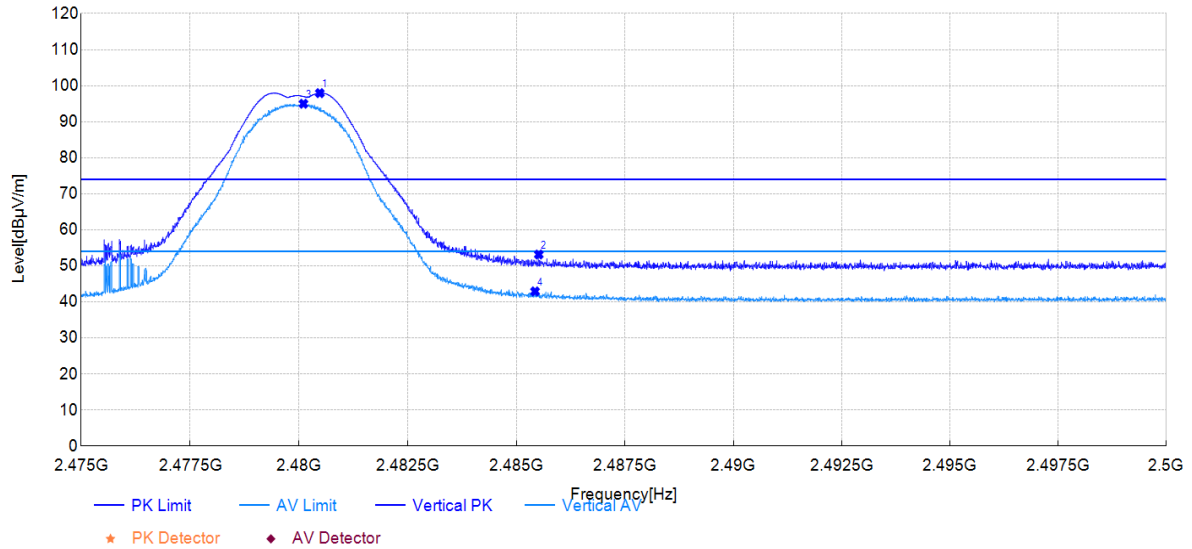


Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2480.48	66.62	102.60	35.98	/	/	150	216	PK	Horizontal	PASS
2	2483.88	22.54	58.56	36.02	74.00	15.44	150	212	PK	Horizontal	PASS
3	2480.13	63.51	99.49	35.98	/	/	150	216	AV	Horizontal	PASS
4	2484.04	11.50	47.52	36.02	54.00	6.48	150	212	AV	Horizontal	PASS

Test Mode:	Zigbee	Test Date:	2025-11-18 ~ 2025-11-25
Test Channel:	2480	Test Engineer:	Stone Zhang
Remark:	/		

Test Graph



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2480.48	61.86	97.93	36.07	/	/	150	326	PK	Vertical	PASS
2	2485.52	17.03	53.15	36.12	74.00	20.85	150	322	PK	Vertical	PASS
3	2480.10	58.91	94.98	36.07	/	/	150	326	AV	Vertical	PASS
4	2485.43	6.79	42.91	36.12	54.00	11.09	150	340	AV	Vertical	PASS

7.8. AC Conducted Emissions Measurement

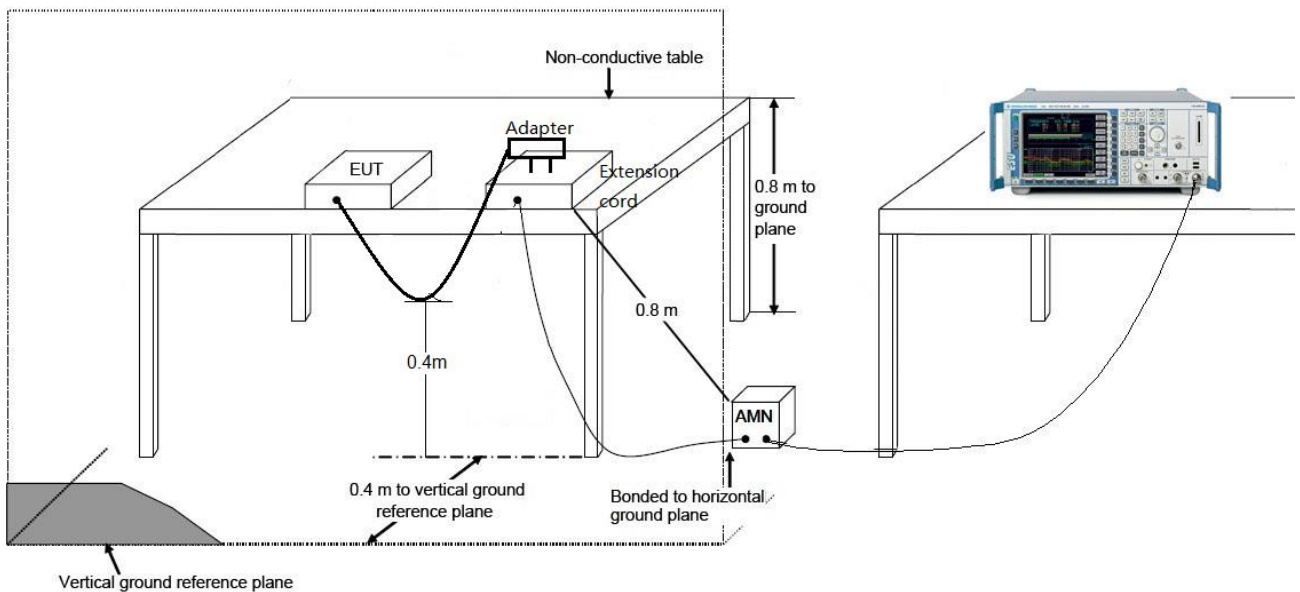
7.8.1. Test Limit

AC power-line conducted emissions limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 – 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2. Test Setup



7.8.3. Test Result

The EUT is DC supply, this item only for the EUT is designed to be connected to the public utility (AC) power line. Not applicable.

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **Multi-State Sensor P100 (Model: VB-S03E)** is in compliance with Part 15C of the FCC Rules.

Statement

1. This report is invalid for the following states: without the special inspection and testing stamp or the official stamp of our institution; without the signature of the report authorized officer; if the report is altered.
2. It is forbidden to copy partial contents of the report except in full without the approval of our institution.
3. The client shall provide the test sample(s) and commission information and be responsible for their authenticity.
4. The report content is only applicable to the tested sample(s) this time.
5. If there are any objections to the report content, please submit them to our company in writing within 15 days from the date of receiving the report.
6. If the reports include both Chinese and English versions, when there are any inconsistencies caused by language, the Chinese version shall prevail.
7. Information about laboratory sites involved in our company:

No.8 Ningyun Rd., Xinwu District Wuxi, Jiangsu 214000 China

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