Spot Check Evaluation

APPLICANT	:	**Amazon.com Services LLC**
EQUIPMENT	:	**Wireless Tablet**
MODEL NAME	:	**R2SP9T**
FCC ID	:	**2A4DH-2578**
STANDARD	:	**47 CFR Part 15 Subpart C §15.247** **47 CFR Part 15 Subpart E §15.407**

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Reviewed by: Jason Jia / Supervisor

Alex Wang

Approved by: Alex Wang / Manager

ACCREDITED Cert #5145.02

Sporton International Inc. (Kunshan)
No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
1O2106-02	Rev. 01	Initial issue of report	Mar. 30, 2022
1O2106-02	Rev. 02	Add Radiated Spurious Emission Plots as Appendix A	Jul. 01, 2022

1 General Description

1.1 Applicant

Amazon.com Services LLC
410 Terry Avenue N Seattle, WA 98109-5210 United States

1.2 Product Feature of Equipment Under Test

Product Feature	
Equipment	Wireless Tablet
Model Name	R2SP9T
FCC ID	2A4DH-2578

1.3 Modification of EUT

No modifications are made to the EUT during all test items.

1.4 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH06-KS TH01-KS	CN1257	314309

1.5 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH06-KS	AUDIX	E3	6.2009-8-24al

2 Re-use of Measured Data

2.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: R2SP9T, FCC ID: 2A4DH-2578) is electrically identical to the reference device (Model: R2SP8T, FCC ID: 2A4DH-2576) for the portions of the circuitry corresponding to the data being re-used. Based on their similarity, the FCC Part 15C (equipment class: DTS, DSS) and FCC Part 15E (equipment class: NII) reuse the original model's result and do spot-check, following the FCC KDB 484596 D01 v01.
The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID: 2A4DH-2578 .

2.2 Model Difference Information

The **main** difference between FCC ID: 2A4DH-2576 and FCC ID: 2A4DH-2578 is as below:

- Add WPT function.

Amazon.com Services LLC,hereby declares that parent and variant are electrical identical except variant has the WPT receiver function. Therefore the WLAN/Bluetooth report/data of parent may represent fo variant.

2.3 Reference detail Section:

Rule Part	Equipment Class	Frequency Band (MHz)	Reference FCC ID(Parent)	Type Grant/ Permissive Change	Reference Title	FCC ID Filling (Variant)	Report Title/Section
15C	DSS (BR/EDR)	2400~2483.5	2A4DH-2576	Original Grant	FR1O2106-01A	2A4DH-2578	All sections applicable
	DTS (BLE)	2400~2483.5	2A4DH-2576	Original Grant	FR1O2106-01B	2A4DH-2578	All sections applicable
	DTS (WLAN)	2400~2483.5	2A4DH-2576	Original Grant	FR1O2106-01C	2A4DH-2578	All sections applicable
15E	U-NII-1	5180~5240	2A4DH-2576	Original Grant	FR1O2106-01D	2A4DH-2578	All sections applicable
	U-NII-2A	5260~5320	2A4DH-2576	Original Grant	FR1O2106-01D	2A4DH-2578	All sections applicable
	U-NII-2C	5500~5720	2A4DH-2576	Original Grant	FR1O2106-01D	2A4DH-2578	All sections applicable
	U-NII-3	5745~5825	2A4DH-2576	Original Grant	FR1O2106-01D	2A4DH-2578	All sections applicable
	DFS	5260~5320 5500~5720	2A4DH-2576	Original Grant	FZ1O2106-01	2A4DH-2578	All sections applicable

2.4 Spot Check Verification Data Section

Conducted power test and radiated spurious emission test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model

Summary for power and RSE spot check for each rule entry and technology is listed as below:

Test Item	Mode	2A4DH-2576 Parent Worst Result	2A4DH-2578 Variant Check Result	Difference (dB)
Conducted Power (dBm)	BT BR/EDR-ANT1	5.36	5.83	0.47
	BLE 1Mbps-ANT1	-3.05	-2.64	0.41
	BLE 2Mbps-ANT1	-3.03	-2.71	0.32
	11b, 2.4GHz-ANT1	15.46	15.62	0.16
	11g, 2.4GHz-ANT1	21.95	22.13	0.18
	11n HT20, 2.4GHz-ANT1	23.21	23.33	0.12
	11a, 5.2GHz-ANT1	13.39	13.65	0.26
	11a, 5.3GHz-ANT1	13.49	13.78	0.29
	11a, 5.5GHz-ANT1	13.75	14.07	0.32
	11a, 5.8GHz-ANT1	13.79	14.17	0.38
	11n HT20, 5.2GHz-ANT1	13.39	13.60	0.21
	11n HT20, 5.3GHz-ANT1	13.26	13.70	0.44
	11n HT20, 5.5GHz-ANT1	13.47	13.80	0.33
	11n HT20, 5.8GHz-ANT1	13.53	13.91	0.38
	11n HT40, 5.2GHz-ANT1	13.34	13.58	0.24
	11n HT40, 5.3GHz-ANT1	13.50	13.69	0.19
	11n HT40, 5.5GHz-ANT1	13.57	13.87	0.30
	11n HT40, 5.8GHz-ANT1	13.58	13.92	0.34
	11ac VHT20, 5.2GHz-ANT1	13.40	13.64	0.24
	11ac VHT20, 5.3GHz-ANT1	13.35	13.75	0.40
	11ac VHT20, 5.5GHz-ANT1	13.49	13.82	0.33
	11ac VHT20, 5.8GHz-ANT1	13.57	13.94	0.37
	11ac VHT40, 5.2GHz-ANT1	13.36	13.60	0.24
	11ac VHT40, 5.3GHz-ANT1	13.53	13.71	0.18
	11ac VHT40, 5.5GHz-ANT1	13.59	13.89	0.30
	11ac VHT40, 5.8GHz-ANT1	13.60	13.94	0.34
	11ac VHT80, 5.2GHz-ANT1	7.93	8.38	0.45
	11ac VHT80, 5.3GHz-ANT1	8.36	8.44	0.08
	11ac VHT80, 5.5GHz-ANT1	13.37	13.84	0.47
	11ac VHT80, 5.8GHz-ANT1	13.4	13.88	0.48
	BT BR/EDR-ANT2	7.03	6.88	0.15
	BLE 1Mbps-ANT2	-2.11	-1.64	0.47
	BLE 2Mbps-ANT2	-2.09	-1.66	0.43
	11b, 2.4GHz-ANT2	16.95	17.04	0.09
	11g, 2.4GHz-ANT2	22.31	22.56	0.25
	11n HT20, 2.4GHz-ANT2	23.75	23.85	0.10
	11a, 5.2GHz-ANT2	13.88	13.98	0.10
	11a, 5.3GHz-ANT2	13.90	14.10	0.20
	11a, 5.5GHz-ANT2	14.02	14.27	0.25

	11a, 5.8GHz-ANT2	14.01	14.34	0.33
	11n HT20, 5.2GHz-ANT2	13.75	14.00	0.25
	11n HT20, 5.3GHz-ANT2	13.73	14.06	0.33
	11n HT20, 5.5GHz-ANT2	13.78	14.13	0.35
	11n HT20, 5.8GHz-ANT2	13.83	14.24	0.41
	11n HT40, 5.2GHz-ANT2	13.77	13.95	0.18
	11n HT40, 5.3GHz-ANT2	13.79	14.05	0.26
	11n HT40, 5.5GHz-ANT2	13.90	14.33	0.43
	11n HT40, 5.8GHz-ANT2	13.89	14.35	0.46
	11ac VHT20, 5.2GHz-ANT2	13.76	14.01	0.25
	11ac VHT20, 5.3GHz-ANT2	13.74	14.11	0.37
	11ac VHT20, 5.5GHz-ANT2	13.79	14.19	0.40
	11ac VHT20, 5.8GHz-ANT2	13.88	14.31	0.43
	11ac VHT40, 5.2GHz-ANT2	13.79	14.05	0.26
	11ac VHT40, 5.3GHz-ANT2	13.80	14.11	0.31
	11ac VHT40, 5.5GHz-ANT2	13.92	14.35	0.43
	11ac VHT40, 5.8GHz-ANT2	13.93	14.37	0.44
	11ac VHT80, 5.2GHz-ANT2	10.36	10.70	0.34
	11ac VHT80, 5.3GHz-ANT2	9.41	9.81	0.40
	11ac VHT80, 5.5GHz-ANT2	13.68	14.12	0.44
	11ac VHT80, 5.8GHz-ANT2	13.72	14.17	0.45

Test Item	Mode	2A4DH-2576 Parent Worst Result	2A4DH-2578 Variant Check Result	Difference (dB)
Radiated Spurious Emission (dBuV/m) @ 3m	BT BR/EDR Ch00-ANT1	54.02	53.60	0.42
	BLE 2Mbps Ch39-ANT2	45.39	45.47	0.08
	11b Ch13, 2.4GHz-ANT2	50.89	49.52	1.37
	11ac VHT80 Ch42, 5.2GHz-ANT2	50.78	48.75	2.03
	11ac VHT80 Ch155, 5.8GHz-ANT2	58.56	56.13	2.43

Conclusion:

Radiated spurious emission test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

Based on the spot check test result, the test data from the original model is representative for the variant model. The power level and RSE spot check are shown within expected level compliant to limit line.

The same DFS detection is used in the variant. Hence, there is spot check data for DFS.

We confirm that the test data reuse policy of FCC KDB 484596 D01 Referencing Test Data v01 has been followed and the test data as referenced from the parent model report represents compliance with new FCC ID.

3 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 14, 2021	Mar. 16, 2022	Oct. 13, 2022	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz;Max 30dBm	Oct. 16, 2021	Mar. 16, 2022	Oct. 15, 2022	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz-44GHz	Apr. 12, 2021	Mar. 16, 2022	Apr. 11, 2022	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 30, 2021	Mar. 16, 2022	Oct. 29, 2022	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz-1GHz	May 27, 2021	Mar. 16, 2022	May 26, 2022	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 25, 2021	Mar. 16, 2022	Apr. 24, 2022	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101093	18GHz~40GHz	Jan. 05, 2022	Mar. 16, 2022	Jan. 04, 2023	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Apr. 12, 2021	Mar. 16, 2022	Apr. 11, 2022	Radiation (03CH06-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 05, 2022	Mar. 16, 2022	Jan. 04, 2023	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2025788	1Ghz-18Ghz	Jul. 30, 2021	Mar. 16, 2022	Jul. 29, 2022	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270203	500MHz~26.5GHz	Apr. 13, 2021	Mar. 16, 2022	Apr. 12, 2022	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Mar. 16, 2022	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Mar. 16, 2022	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Mar. 16, 2022	NCR	Radiation (03CH06-KS)

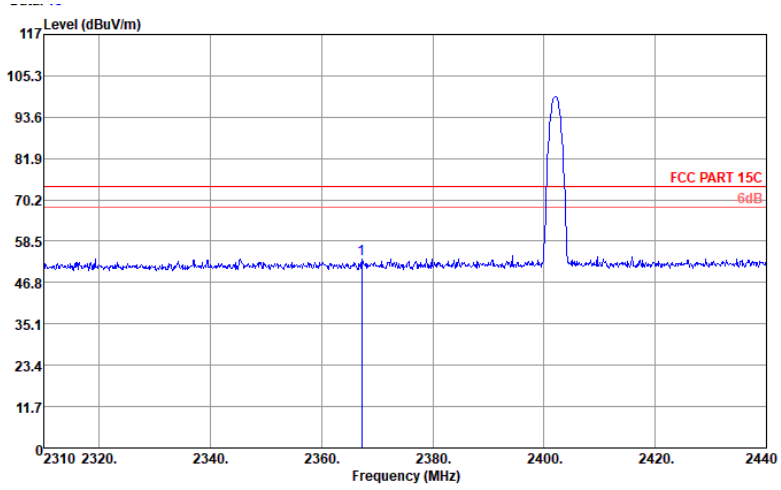
NCR: No Calibration Required.

-THE END-

Appendix A. Radiated Spurious Emission Plots

2.4GHz 2400~2483.5MHz

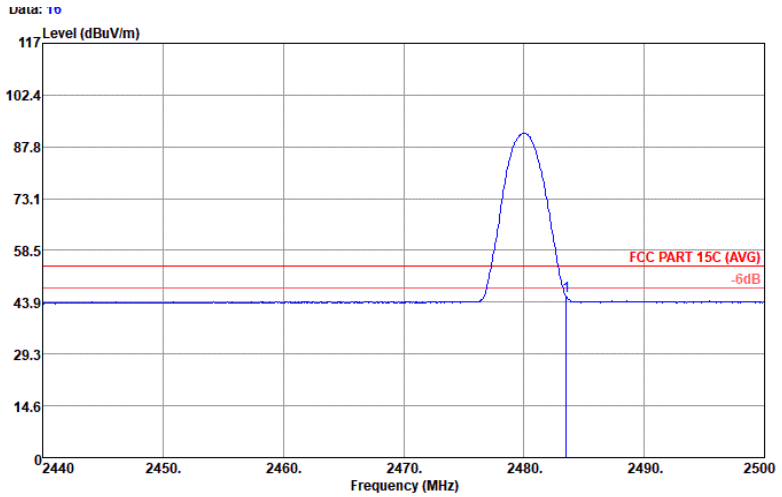
BT (Band Edge @ 3m)

BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m
ANT	BT CH00 2402MHz
1	Vertical
Peak	

Site : 03CH06-KS
Condition : FCC PART 15C 3m 3117 SN 00218642 VERTICAL
RBW:1000.000KHz VBW:1000.000KHz SWT:Auto

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phas
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
1	2367.20	53.60	-20.40	74.00	48.50	30.88	7.10	32.88	349	66	Peak	VERTICAL

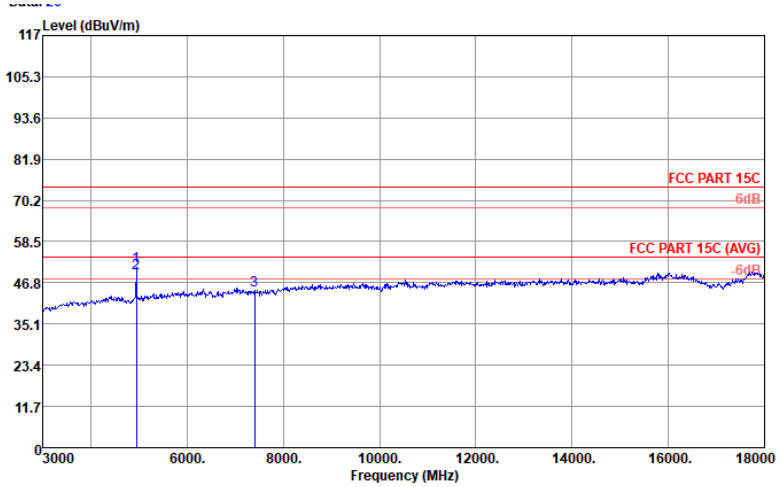
BLE-2Mbps (Band Edge @ 3m)

BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m
ANT	BLE 2Mbps CH39 2480MHz
2	Vertical
Peak	

Site : 03CH06-KS
Condition : FCC PART 15C (AVG) 3m 3117 SN 00218642 VERTICAL
RBW:1000.000KHz VBW:1.000KHz SWT:Auto

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phas
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
1	2483.50	45.47	-8.53	54.00	39.71	31.13	7.27	32.64	254	296	Average	VERTICAL

WIFI 802.11b (Band Edge @ 3m)

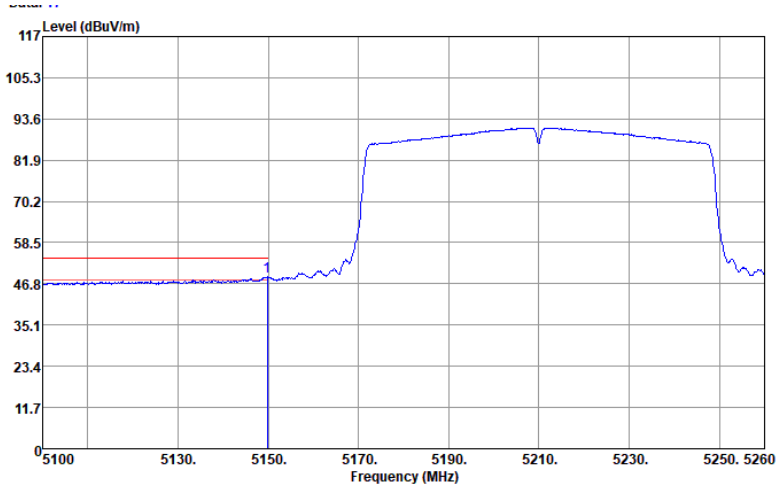
BT	2.4GHz 2400~2483.5MHz Band Edge @ 3m
ANT	802.11b CH13 2472MHz
2	Vertical
Peak	

Site : 03CH06-KS
Condition : FCC PART 15C 3m 3117 SN 00218642 VERTICAL
: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phas
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
1	4950.00	51.41	-22.59	74.00	67.95	34.78	10.41	61.73	322	107	Peak	VERTICAL
2 !	4950.00	49.52	-4.48	54.00	66.06	34.78	10.41	61.73	322	107	Average	VERTICAL
3	7410.00	44.69	-29.31	74.00	57.33	36.58	12.85	62.07	100	0	Peak	VERTICAL

U-NII-1 - 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

BT	U-NII-1 5150~5250MHz Band Edge @ 3m
ANT	802.11ac VHT80 CH42 5210MHz
2	Vertical
Peak	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Site                    : 03CH06-KS
Condition               : 5G BAND 1----3 (AVG) 3m 3117 SN 00218642 VERTICAL
                        : RBW:1000.000KHz VBW:3.300KHz SWT:Auto
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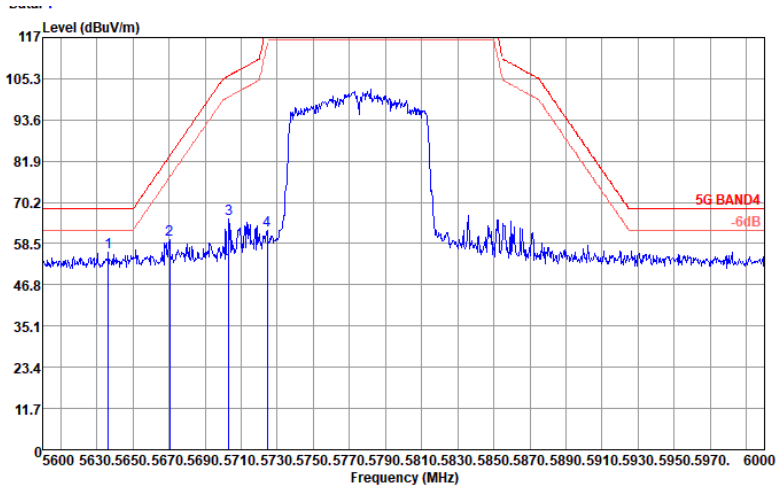
	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phas
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
1 !	5149.76	48.75	-5.25	54.00	34.88	35.03	10.65	31.81	303	8	Average	VERTICAL

U-NII-3 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

BT	U-NII-3 5725~5850MHz Band Edge @ 3m
ANT	802.11ac VHT80 CH155 5775MHz
2	Horizontal
Peak	

Site : 03CH06-KS
Condition : 5G BAND4 3m 3117 SN 00218642 HORIZONTAL
: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phas
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg		
1	5636.40	56.13	-12.17	68.30	41.59	35.48	11.16	32.10	302	181	Peak	HORIZONT
2	5670.40	59.70	-23.74	83.44	45.05	35.53	11.20	32.08	302	181	Peak	HORIZONT
3	5703.20	65.59	-40.61	106.20	50.84	35.58	11.23	32.06	302	181	Peak	HORIZONT
4	5724.40	62.39	-58.54	120.93	47.56	35.62	11.25	32.04	302	181	Peak	HORIZONT