

TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: YHLBLUR1HD Page Number : A23 of A33
Report Issued Date : May 31, 2016
Report Version : Rev. 01

Report No.: FG642901A

Conducted Spurious Emission

SPORTON INTERNATIONAL (SHENZHEN) INC.

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GSM850 (GSM) GSM850 (EDGE class 8) **Lowest Channel Lowest Channel** Ref Level 24.50 dBm Offset 14.50 dB SGL Count 10/10 1 Max Ref Level 24.50 dBm Offset 14.50 dB Stop 9.0 GHz Start 30.0 MHz Spurious Emission: Start 30.0 MHz Spurious Emissions Range Low 30,000 MHz Range Low 30.000 MHz Date: 9.MAY.2016 23:49:01 Date: 9.MAY.2016 23:10:17 **Middle Channel Middle Channel** LINE ABS Date: 9.MAY.2016 23:50:17 Date: 9.MAY.2016 23:11:46 **Highest Channel Highest Channel** SGL Count 10/10 20 de limit check
Line SPURIOUS LINE ABS LINE_ABS_ Start 30.0 MH Stop 9.0 GHz Start 30.0 MHz

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GSM1900 (GSM) GSM1900 (EDGE class 8) **Lowest Channel Lowest Channel** Ref Level 25.00 dBm Offset 15.00 dB SGL Count 10/10 Ref Level 25.00 dBm Offset 15.00 dB 20 demit check SPURIOUS_LINE_ABS_ 20 dBm LINE ABS Start 30.0 MHz Spurious Emissio Range Low 30.000 MHz Start 30.0 MHz Stop 19.1 GHz Stop 19.1 GHz Date: 9.MAY.2016 23:33:52 Date: 9.MAY.2016 23:28:16 **Middle Channel Middle Channel** Start 30.0 MH Stop 19.1 GHz Start 30.0 MHz Stop 19.1 GHz 1.62562 GHz 2.51947 GHz Date: 9.MAY.2016 23:35:08 Date: 9.MAY.2016 23:29:50 **Highest Channel Highest Channel** SGL Count 10/10 20 dbinit check Line_SPURIOUS_LINE_ABS LINE_ABS

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WCDMA Band V (RMC 12.2Kbps) WCDMA Band II (RMC 12.2Kbps) **Lowest Channel Lowest Channel** Ref Level 25.00 dBm Offset 15.00 dB SGL Count 10/10 Start 30.0 MHz Stop 19.1 GHz Start 30.0 MHz Frequency 767.29385 MHz 984.09420 MHz 2.25072 GHz 6.98125 GHz 8.36270 GHz Range Low Range Up **Middle Channel Middle Channel** Ref Level 24.5 Start 30.0 MHz Stop 9.0 GHz **Highest Channel Highest Channel** Ref Level 24.50 dBm Offset 14.50 dB Mode Auto Sweep Ref Level 25.00 dBm Offset 15.00 dB GL Count 10/10 to definit check
Line_SPURIOUS_LINE_ABS Stop 9.0 GHz

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WCDMA Band IV (RMC 12.2Kbps) **Lowest Channel Middle Channel** Ref Level 30.00 dBm **Highest Channel** Ref Level 30.00 dBm Offset 15.00 dB Mode Auto Sweep

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Frequency Stability

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviatio	n (ppm)	Result
50	Normal Voltage	0.0347	0.0072	
40	Normal Voltage	0.0311	0.0048	
30	Normal Voltage	0.0263	0.0036	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0251	0.0263	
0	Normal Voltage	0.0036	0.0024	
-10	Normal Voltage	0.0072	0.0323	PASS
-20	Normal Voltage	0.0335	0.0048	
-30	Normal Voltage	0.0359	0.0084	
20	Maximum Voltage	0.0275	0.0000	
20	Normal Voltage	0.0239	0.0024	
20	Battery End Point	0.0263	0.0000	

Note: Normal Voltage = 3.7V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.2 V

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Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation	on (ppm)	Result
50	Normal Voltage	0.0021	0.0154	
40	Normal Voltage	0.0005	0.0165	
30	Normal Voltage	0.0011	0.0149	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0117	0.0005	
0	Normal Voltage	0.0133	0.0133	
-10	Normal Voltage	0.0021	0.0144	PASS
-20	Normal Voltage	0.0032	0.0170	
-30	Normal Voltage	0.0016	0.0027	
20	Maximum Voltage	0.0000	0.0138	
20	Normal Voltage	0.0011	0.0128	
20	Battery End Point	0.0016	0.0144	

Note:

- 1. Normal Voltage = 3.7V. ; Battery End Point (BEP) = 3.5 V.; Maximum Voltage =4.2 V
- 2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0000	
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0036	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0143	
-10	Normal Voltage	0.0012	PASS
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0036	
20	Battery End Point	0.0012	

Note: Normal Voltage = 3.7V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.2 V

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Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0021	
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0043	
0	Normal Voltage	0.0053	
-10	Normal Voltage	0.0005	PASS
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0016	

Note:

- 1. Normal Voltage = 3.7V. ; Battery End Point (BEP) = 3.5 V.; Maximum Voltage =4.2 V
- **2.** The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0029	
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0006	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0063	
0	Normal Voltage	0.0063	
-10	Normal Voltage	0.0000	PASS
-20	Normal Voltage	0.0017	
-30	Normal Voltage	0.0035	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	

Note:

- 1. Normal Voltage = 3.7V. ; Battery End Point (BEP) = 3.5 V.; Maximum Voltage =4.2 V
- 2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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Appendix B. Test Results of Radiated Test

ERP/EIRP

Channel	Mode	Horiz	ontal	Vertical		
Channel	Wode	ERP(dBm)	ERP(W)	ERP(dBm)	ERP(W)	
Lowest	GSM850	25.10	0.3236	14.77	0.0300	
Middle	GSM	24.77	0.2996	14.62	0.0290	
Highest	GSIVI	24.65	0.2918	15.03	0.0319	
Lowest	0011070	19.10	0.0813	8.85	0.0077	
Middle	GSM850 EDGE class 8	18.83	0.0764	8.79	0.0076	
Highest	EDGE Class o	18.49	0.0706	8.96	0.0079	
Lowest	MCDMA Bond V	14.81	0.0303	3.63	0.0023	
Middle	WCDMA Band V	14.69	0.0294	3.70	0.0023	
Highest	RMC 12.2Kbps	14.78	0.0301	4.24	0.0027	
Limit	ERP < 7W	Re	sult	PASS		

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Channel	Mode	Horiz	ontal	Vertical		
Channel	Wiode	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)	
Lowest	GSM1900	30.58	1.1429	30.76	1.1912	
Middle	GSM1900 GSM	30.94	1.2425	30.96	1.2487	
Highest	GSIVI	31.03	1.2677	30.88	1.2246	
Lowest	00144000	26.79	0.4775	26.85	0.4842	
Middle	GSM1900 EDGE class 8	26.84	0.4831	26.86	0.4853	
Highest	EDGE class o	26.66	0.4634	26.49	0.4457	
Lowest	WCDMA Bond II	23.09	0.2037	23.23	0.2103	
Middle	WCDMA Band II	23.46	0.2216	23.44	0.2208	
Highest	RMC 12.2Kbps	23.34	0.2160	22.97	0.1981	
Limit	EIRP < 2W	Re	sult	PASS		

Channel	Mode	Horiz	ontal	Vertical		
Channel	Wiode	EIRP(dBm)	EIRP(W)	EIRP(dBm)	EIRP(W)	
Lowest	WCDMA Band IV	21.74	0.1491	21.85	0.1532	
Middle		22.33	0.1709	22.41	0.1742	
Highest	RMC 12.2Kbps	22.65	0.1842	22.83	0.1920	
Limit	EIRP < 1W	Re	sult	PA	SS	

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				GSM8	50 (GSM)				
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	1648.4	-59.07	-13	-46.07	-61.90	-65.76	0.56	9.40	Н
	2472.6	-58.94	-13	-45.94	-64.68	-66.65	0.74	10.60	Н
Lowoot	3296.8	-57.60	-13	-44.60	-66.41	-67.20	0.85	12.60	Н
Lowest	1648.4	-56.58	-13	-43.58	-58.24	-63.27	0.56	9.40	V
	2472.6	-58.39	-13	-45.39	-63.97	-66.10	0.74	10.60	V
	3296.8	-58.06	-13	-45.06	-66.20	-67.66	0.85	12.60	V
	1672	-60.03	-13	-47.03	-62.86	-66.72	0.56	9.40	Н
	2510	-58.05	-13	-45.05	-63.79	-65.76	0.74	10.60	Н
Middle	3346	-58.35	-13	-45.35	-67.16	-67.95	0.85	12.60	Н
Middle	1672	-61.46	-13	-48.46	-63.12	-68.15	0.56	9.40	V
	2510	-55.94	-13	-42.94	-61.52	-63.65	0.74	10.60	V
	3346	-58.78	-13	-45.78	-66.92	-68.38	0.85	12.60	V
	1697.6	-59.78	-13	-46.78	-62.61	-66.47	0.56	9.40	Н
	2546.4	-56.75	-13	-43.75	-62.49	-64.46	0.74	10.60	Н
Liabaat	3395.2	-58.01	-13	-45.01	-66.82	-67.61	0.85	12.60	Н
Highest	1697.6	-59.71	-13	-46.71	-61.37	-66.40	0.56	9.40	V
	2546.4	-55.10	-13	-42.10	-60.68	-62.81	0.74	10.60	V
	3395.2	-58.11	-13	-45.11	-66.25	-67.71	0.85	12.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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				GSM850 (E	DGE class 8	3)			
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	1648.4	-60.42	-13	-47.42	-63.25	-67.11	0.56	9.40	Н
	2472.6	-59.27	-13	-46.27	-65.01	-66.98	0.74	10.60	Н
Lowoot	3296.8	-57.85	-13	-44.85	-66.66	-67.45	0.85	12.60	Н
Lowest	1648.4	-59.77	-13	-46.77	-61.43	-66.46	0.56	9.40	V
	2472.6	-59.07	-13	-46.07	-64.65	-66.78	0.74	10.60	V
	3296.8	-59.08	-13	-46.08	-67.22	-68.68	0.85	12.60	V
	1672	-60.68	-13	-47.68	-63.51	-67.37	0.56	9.40	Н
	2510	-57.86	-13	-44.86	-63.60	-65.57	0.74	10.60	Н
Middle	3346	-58.41	-13	-45.41	-67.22	-68.01	0.85	12.60	Н
Middle	1672	-62.46	-13	-49.46	-64.12	-69.15	0.56	9.40	V
	2510	-55.42	-13	-42.42	-61.00	-63.13	0.74	10.60	V
	3346	-58.64	-13	-45.64	-66.78	-68.24	0.85	12.60	V
	1697.6	-59.52	-13	-46.52	-62.35	-66.21	0.56	9.40	Н
	2546.4	-58.29	-13	-45.29	-64.03	-66.00	0.74	10.60	Н
l limbact	3395.2	-58.19	-13	-45.19	-67.00	-67.79	0.85	12.60	Н
Highest	1697.6	-59.60	-13	-46.60	-61.26	-66.29	0.56	9.40	V
	2546.4	-53.64	-13	-40.64	-59.22	-61.35	0.74	10.60	V
	3395.2	-59.13	-13	-46.13	-67.27	-68.73	0.85	12.60	V

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				GSM19	00 (GSM)				
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	3700.4	-42.75	-13	-29.75	-56.30	-48.79	6.56	12.60	Н
	5550.6	-48.39	-13	-35.39	-64.33	-53.49	8	13.10	Н
Lowoot	7400.8	-49.36	-13	-36.36	-68.10	-51.09	9.57	11.30	Н
Lowest	3700.4	-42.68	-13	-29.68	-56.03	-48.72	6.56	12.60	V
	5550.6	-46.01	-13	-33.01	-63.36	-51.11	8	13.10	V
	7400.8	-50.30	-13	-37.30	-68.7	-52.03	9.57	11.30	V
	3760	-41.05	-13	-28.05	-54.71	-47.09	6.56	12.60	Н
	5640	-47.51	-13	-34.51	-63.45	-52.61	8	13.10	Н
Middle	7520	-48.46	-13	-35.46	-67.20	-50.19	9.57	11.30	Н
Middle	3760	-44.10	-13	-31.10	-57.45	-50.14	6.56	12.60	V
	5640	-45.77	-13	-32.77	-63.12	-50.87	8	13.10	V
	7520	-49.51	-13	-36.51	-67.91	-51.24	9.57	11.30	V
	3819.6	-43.16	-13	-30.16	-56.71	-49.20	6.56	12.60	Н
	5729.4	-46.40	-13	-33.40	-62.34	-51.50	8	13.10	Н
l limb oot	7639.2	-49.02	-13	-36.02	-67.76	-50.75	9.57	11.30	Н
Highest	3819.6	-44.30	-13	-31.30	-57.65	-50.34	6.56	12.60	V
	5729.4	-46.00	-13	-33.00	-63.35	-51.10	8	13.10	V
	7639.2	-48.87	-13	-35.87	-67.27	-50.60	9.57	11.30	V

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				GSM1900 (E	EDGE class	8)			
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	3700.4	-43.17	-13	-30.17	-56.72	-49.21	6.56	12.60	Н
	5550.6	-46.18	-13	-33.18	-62.12	-51.28	8	13.10	Н
Lowest	7400.8	-49.53	-13	-36.53	-68.27	-51.26	9.57	11.30	Н
Lowest	3700.4	-34.26	-13	-21.26	-49.82	-40.30	6.56	12.60	V
	5550.6	-44.96	-13	-31.96	-62.31	-50.06	8	13.10	V
	7400.8	-49.44	-13	-36.44	-67.84	-51.17	9.57	11.30	V
	3760	-39.02	-13	-26.02	-53.25	-45.06	6.56	12.60	Н
	5640	-47.56	-13	-34.56	-63.50	-52.66	8	13.10	Н
Middle	7520	-49.27	-13	-36.27	-68.01	-51.00	9.57	11.30	Н
Middle	3760	-39.86	-13	-26.86	-54.35	-45.90	6.56	12.60	V
	5640	-44.85	-13	-31.85	-62.2	-49.95	8	13.10	V
	7520	-49.82	-13	-36.82	-68.22	-51.55	9.57	11.30	V
	3819.6	-46.59	-13	-33.59	-60.14	-52.63	6.56	12.60	Н
	5729.4	-47.67	-13	-34.67	-63.61	-52.77	8	13.10	Н
l limbost	7639.2	-49.18	-13	-36.18	-67.92	-50.91	9.57	11.30	Н
Highest	3819.6	-42.08	-13	-29.08	-55.43	-48.12	6.56	12.60	V
	5729.4	-44.18	-13	-31.18	-61.53	-49.28	8	13.10	V
	7639.2	-49.33	-13	-36.33	-67.73	-51.06	9.57	11.30	V

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WCDMA Band V (RMC 12.2Kbps)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	1652.8	-59.48	-13	-46.48	-62.31	-66.17	0.56	9.40	Н
	2479.2	-59.64	-13	-46.64	-65.38	-67.35	0.74	10.60	Н
	3305.6	-57.83	-13	-44.83	-66.64	-67.43	0.85	12.60	Н
Lowest	1652.8	-62.73	-13	-49.73	-64.39	-69.42	0.56	9.40	V
	2479.2	-56.99	-13	-43.99	-62.57	-64.70	0.74	10.60	V
	3305.6	-58.64	-13	-45.64	-66.78	-68.24	0.85	12.60	V
Middle	1672	-59.46	-13	-46.46	-62.29	-66.15	0.56	9.40	Н
	2510	-58.88	-13	-45.88	-64.62	-66.59	0.74	10.60	Н
	3346	-57.64	-13	-44.64	-66.45	-67.24	0.85	12.60	Н
	1672	-62.87	-13	-49.87	-64.53	-69.56	0.56	9.40	V
	2510	-56.51	-13	-43.51	-62.09	-64.22	0.74	10.60	V
	3346	-58.88	-13	-45.88	-67.02	-68.48	0.85	12.60	V
Highest	1693.2	-58.56	-13	-45.56	-61.39	-65.25	0.56	9.40	Н
	2539.8	-58.02	-13	-45.02	-63.76	-65.73	0.74	10.60	Н
	3386.4	-57.31	-13	-44.31	-66.12	-66.91	0.85	12.60	Н
	1693.2	-61.58	-13	-48.58	-63.24	-68.27	0.56	9.40	V
	2539.8	-55.51	-13	-42.51	-61.09	-63.22	0.74	10.60	V
	3386.4	-58.85	-13	-45.85	-66.99	-68.45	0.85	12.60	V

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WCDMA Band II (RMC 12.2Kbps)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	3704.8	-48.68	-13	-35.68	-62.23	-54.72	6.56	12.60	Н
	5557.2	-36.01	-13	-23.01	-53.42	-41.11	8	13.10	Н
Lowest	7409.6	-49.82	-13	-36.82	-68.56	-51.55	9.57	11.30	Н
Lowest	3704.8	-47.64	-13	-34.64	-60.99	-53.68	6.56	12.60	V
	5557.2	-39.11	-13	-26.11	-56.72	-44.21	8	13.10	V
	7409.6	-50.34	-13	-37.34	-68.74	-52.07	9.57	11.30	V
	3760	-47.42	-13	-34.42	-60.97	-53.46	6.56	12.60	Н
	5640	-38.25	-13	-25.25	-55.21	-43.35	8	13.10	Н
	7520	-49.11	-13	-36.11	-67.85	-50.84	9.57	11.30	Н
Middle	3760	-48.55	-13	-35.55	-61.9	-54.59	6.56	12.60	V
	5640	-39.13	-13	-26.13	-56.73	-44.23	8	13.10	V
	7520	-49.71	-13	-36.71	-68.11	-51.44	9.57	11.30	V
Highest	3815.2	-48.98	-13	-35.98	-62.53	-55.02	6.56	12.60	Н
	5722.8	-37.77	-13	-24.77	-54.87	-42.87	8	13.10	Н
	7630.4	-48.64	-13	-35.64	-67.38	-50.37	9.57	11.30	Н
	3815.2	-47.07	-13	-34.07	-60.42	-53.11	6.56	12.60	V
	5722.8	-38.17	-13	-25.17	-56.07	-43.27	8	13.10	V
	7630.4	-48.85	-13	-35.85	-67.25	-50.58	9.57	11.30	V

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WCDMA Band IV (RMC 12.2Kbps)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	3424.8	-45.78	-13	-32.78	-60.53	-52.20	6.18	12.60	Н
	5137.2	-43.35	-13	-30.35	-61.35	-48.31	7.74	12.70	Н
	6849.6	-49.59	-13	-36.59	-68.40	-52.29	9	11.70	Н
Lowest	3424.8	-49.35	-13	-36.35	-60.3	-55.77	6.18	12.60	V
	5137.2	-48.26	-13	-35.26	-61.26	-53.22	7.74	12.70	V
	6849.6	-51.68	-13	-38.68	-68.39	-54.38	9	11.70	V
NA' LUL	3465.2	-43.84	-13	-30.84	-58.59	-50.26	6.18	12.60	Н
	5197.8	-40.21	-13	-27.21	-58.21	-45.17	7.74	12.70	Н
	6930.4	-48.51	-13	-35.51	-67.32	-51.21	9	11.70	Н
Middle	3465.2	-47.35	-13	-34.35	-58.3	-53.77	6.18	12.60	V
	5197.8	-42.05	-13	-29.05	-56.8	-47.01	7.74	12.70	V
	6930.4	-51.25	-13	-38.25	-67.96	-53.95	9	11.70	V
	3505.2	-42.95	-13	-29.95	-57.70	-49.37	6.18	12.60	Н
Highest	5257.8	-38.24	-13	-25.24	-56.24	-43.20	7.74	12.70	Н
	7010.4	-49.43	-13	-36.43	-68.24	-52.13	9	11.70	Н
	3505.2	-48.11	-13	-35.11	-59.06	-54.53	6.18	12.60	V
	5257.8	-38.11	-13	-25.11	-54.83	-43.07	7.74	12.70	V
	7010.4	-51.64	-13	-38.64	-68.35	-54.34	9	11.70	V

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