

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051419\
 Data File : VL033688.D
 Acq On : 14 May 2019 12:57
 Operator : SY/AP
 Sample : VL0514ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0514ABS01

Manual Integrations
 APPROVED

MMDadoda
 5/16/2019 5:41:02 AM

Quant Time: May 15 02:46:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 0
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	923445	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2269961	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2437252	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1856420	9.29	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.90%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	1479802	6.832	ppbv 98
3) Chlorodifluoromethane	3.01	51	1128373	8.461	ppbv 100
4) Chloromethane	3.17	50	599546	8.647	ppbv 99
5) Vinyl Chloride	3.29	62	595531	8.835	ppbv 97
6) Bromomethane	3.51	94	395565	9.237	ppbv 96
7) Chloroethane	3.60	64	226461	9.254	ppbv 100
8) Dichlorotetrafluoroethane	3.22	85	1504959	8.442	ppbv 99
9) Propene	3.03	41	471532	9.275	ppbv 100
10) Heptane	8.25	43	1264506	10.078	ppbv 99
11) Trichlorofluoromethane	4.00	101	1699585	8.404	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1243387	9.145	ppbv 99
13) Ethanol	3.64	45	136395	8.938	ppbv 100
14) Bromoethene	3.79	108	482302	8.999	ppbv 100
15) Acetone	3.90	43	1088990	7.927	ppbv 98
16) 1,3-Butadiene	3.36	39	520568	8.835	ppbv 95
17) tert-Butyl alcohol	4.35	59	1056835	10.128	ppbv 100
18) 1,1-Dichloroethene	4.35	96	531708	9.058	ppbv 97
19) Isopropyl Alcohol	4.02	45	844423	10.005	ppbv 99
20) Methylene Chloride	4.41	84	450647	8.639	ppbv 99
21) Allyl Chloride	4.48	41	801537	9.639	ppbv 100
22) trans-1,2-Dichloroethene	4.96	96	569068	9.657	ppbv 97
23) Vinyl Acetate	5.15	43	1835104	10.280	ppbv 100
24) 1,1-Dichloroethane	5.09	63	1248220	9.244	ppbv 99
25) Ethyl Acetate	5.77	43	2196143	9.826	ppbv 100
26) Hexane	5.78	57	963956	10.033	ppbv 99
27) Carbon Disulfide	4.62	76	1383082	10.525	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	1648335	10.187	ppbv 100
29) Chloroform	5.85	83	1681068	9.732	ppbv 99
30) Cyclohexane	7.25	84	856932	10.621	ppbv 100
31) cis-1,2-Dichloroethene	5.64	61	1004751	10.512	ppbv 99
32) 1,1,1-Trichloroethane	6.62	97	1711069	9.592	ppbv 99
34) 2-Butanone	5.33	43	1454724	10.008	ppbv 99
35) Carbon Tetrachloride	7.13	117	1850107	9.917	ppbv 99
36) Benzene	7.00	78	2096692	10.301	ppbv 98
37) 1,2-Dichloroethane	6.41	62	1269579	8.939	ppbv 100
38) Trichloroethene	7.96	130	823128	11.024	ppbv 97
39) 1,2-Dichloropropane	7.73	63	764917	10.083	ppbv 97
40) 1,4-Dioxane	7.95	88	306552	10.111	ppbv 94
41) Tetrahydrofuran	6.14	42	813570	10.831	ppbv 99
42) Bromodichloromethane	7.92	83	1792664	9.776	ppbv 99
43) Methyl Methacrylate	8.13	69	830288	10.844	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3392889	9.749	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1155760	12.299	ppbv	97
46) cis-1,3-Dichloropropene	8.83	75	1273758	10.861	ppbv	95
47) 1,1,2-Trichloroethane	9.61	97	846482	9.716	ppbv	99
48) Dibromochloromethane	10.45	129	1586793	10.745	ppbv	99
49) Bromoform	13.20	173	1417721	11.052	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2203914	10.013	ppbv	100
51) 2-Hexanone	10.27	43	1806224	10.592	ppbv #	99
52) Tetrachloroethene	11.37	164	794638	11.019	ppbv	98
53) Toluene	9.95	91	2394790	10.889	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1390594	10.597	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1065396	9.477	ppbv	100
57) Chlorobenzene	12.30	112	1886309	9.426	ppbv	99
58) Ethyl Benzene	12.86	91	3356794	10.561	ppbv	99
59) m/p-Xylene	13.15	91	5620523m	20.077	ppbv	
60) o-Xylene	13.85	91	2789907	9.847	ppbv	99
61) Styrene	13.68	104	2107166	11.169	ppbv	100
62) Isopropylbenzene	14.82	105	3807190	9.842	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	1931367	9.367	ppbv	99
64) n-propylbenzene	15.72	120	984878	9.852	ppbv	99
65) tert-Butylbenzene	16.91	119	3497817	9.857	ppbv	100
66) Benzyl Chloride	17.15	91	2033538	12.597	ppbv	100
67) sec-Butylbenzene	17.46	105	4889802	9.877	ppbv	100
69) p-Isopropyltoluene	17.82	119	4102442	10.057	ppbv	100
70) n-Butylbenzene	18.71	91	4268272	9.867	ppbv	100
71) 2-Chlorotoluene	15.62	91	2910445	10.183	ppbv	100
72) 4-Ethyltoluene	16.00	105	3344257	10.042	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	3171554	9.850	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	3333852	9.315	ppbv	99
75) 1,3-Dichlorobenzene	17.16	146	1965703	9.093	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1948555	9.498	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1866550	9.320	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1135314	7.153	ppbv	99
79) Naphthalene	22.41	128	2908708	8.901	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	1013576	8.205	ppbv	99
81) 1,2,4-Trichlorobenzene	22.13	180	1601671	8.437	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

