

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111418\
 Data File : VL032749.D
 Acq On : 14 Nov 2018 6:54
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111418

Manual Integrations
 APPROVED

MMDadoda
 11/16/2018 1:29:50 PM

Quant Time: Nov 14 07:39:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:39:08 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1643570	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	4258676	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	4301622m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	3006378	9.34	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	2046415	8.662	ppbv	99
3) Chlorodifluoromethane	3.02	51	1175715	9.023	ppbv	98
4) Chloromethane	3.18	50	661639	9.157	ppbv	96
5) Vinyl Chloride	3.30	62	674726	8.813	ppbv	98
6) Bromomethane	3.53	94	433007	9.245	ppbv	99
7) Chloroethane	3.61	64	252766	9.160	ppbv	95
8) Dichlorotetrafluoroethane	3.23	85	1603885	8.615	ppbv	99
9) Propene	3.04	41	520628	9.984	ppbv	99
10) Heptane	8.26	43	2015185	10.123	ppbv	99
11) Trichlorofluoromethane	4.01	101	1762272	7.915	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1550953	8.528	ppbv	99
13) Ethanol	3.66	45	135761	7.949	ppbv	97
14) Bromoethene	3.80	108	552051	9.150	ppbv	99
15) Acetone	3.91	43	1140120	7.596	ppbv	100
16) 1,3-Butadiene	3.37	39	563999	9.703	ppbv	94
17) tert-Butyl alcohol	4.37	59	454574	9.656	ppbv	100
18) 1,1-Dichloroethene	4.36	96	788709	8.819	ppbv	99
19) Isopropyl Alcohol	4.03	45	924409	9.245	ppbv	99
20) Methylene Chloride	4.42	84	664542	8.552	ppbv	98
21) Allyl Chloride	4.49	41	1161304	9.207	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	723377	8.284	ppbv	98
23) Vinyl Acetate	5.17	43	2791887	10.204	ppbv	99
24) 1,1-Dichloroethane	5.10	63	2032155	9.342	ppbv	99
25) Ethyl Acetate	5.78	43	3282216	9.382	ppbv	99
26) Hexane	5.79	57	1515064	9.729	ppbv	99
27) Carbon Disulfide	4.63	76	1819256	9.213	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	2535446	10.210	ppbv	99
29) Chloroform	5.86	83	2495975	8.993	ppbv	98
30) Cyclohexane	7.26	84	1391506	10.217	ppbv	99
31) cis-1,2-Dichloroethene	5.65	61	1585682	10.128	ppbv	98
32) 1,1,1-Trichloroethane	6.63	97	2677486	8.801	ppbv	99
34) 2-Butanone	5.34	43	2163782	9.796	ppbv	100
35) Carbon Tetrachloride	7.14	117	2856173	8.343	ppbv	99
36) Benzene	7.02	78	3335133	9.835	ppbv	99
37) 1,2-Dichloroethane	6.43	62	2027611	8.882	ppbv	98
38) Trichloroethene	7.97	130	1287114	9.378	ppbv	96
39) 1,2-Dichloropropane	7.75	63	1250381	9.677	ppbv	96
40) 1,4-Dioxane	7.97	88	505600m	10.956	ppbv	
41) Tetrahydrofuran	6.16	42	1324811	10.456	ppbv	99
42) Bromodichloromethane	7.93	83	2853227	9.220	ppbv	97
43) Methyl Methacrylate	8.15	69	1322861	10.449	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	5482199	9.674	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	1965256	11.568	ppbv	97
46) cis-1,3-Dichloropropene	8.85	75	2242546	10.926	ppbv	96
47) 1,1,2-Trichloroethane	9.63	97	1457401	9.539	ppbv	98
48) Dibromochloromethane	10.46	129	2636160	10.152	ppbv	99
49) Bromoform	13.22	173	2016598	9.403	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	3443263	9.981	ppbv	100
51) 2-Hexanone	10.28	43	2435723	10.959	ppbv	99
52) Tetrachloroethene	11.38	164	1152873	9.773	ppbv	96
53) Toluene	9.96	91	3796220	10.730	ppbv	100
54) 1,2-Dibromoethane	10.77	107	2115826	9.797	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.29	131	1700949	8.478	ppbv	100
57) Chlorobenzene	12.31	112	2843711	8.636	ppbv	98
58) Ethyl Benzene	12.87	91	5097509	9.847	ppbv	99
59) m/p-Xylene	13.14	91	8485889m	18.413	ppbv	
60) o-Xylene	13.86	91	4106229	8.861	ppbv	99
61) Styrene	13.70	104	3193424	10.586	ppbv	99
62) Isopropylbenzene	14.83	105	5782282	9.232	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	2850949	7.892	ppbv	100
64) n-propylbenzene	15.73	120	1541827	9.359	ppbv	100
65) tert-Butylbenzene	16.92	119	5232512	9.319	ppbv	99
66) Benzyl Chloride	17.17	91	3197600	10.301	ppbv	100
67) sec-Butylbenzene	17.47	105	7368347	9.106	ppbv	100
69) p-Isopropyltoluene	17.83	119	6058493	9.417	ppbv	99
70) n-Butylbenzene	18.72	91	6084416	9.314	ppbv	100
71) 2-Chlorotoluene	15.62	91	4547115	9.735	ppbv	99
72) 4-Ethyltoluene	16.01	105	4917524	9.682	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	4674223	9.412	ppbv	99
74) 1,2,4-Trimethylbenzene	16.94	105	4700239	8.845	ppbv	97
75) 1,3-Dichlorobenzene	17.18	146	2638069	8.654	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2617784	9.194	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	2537752	8.999	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1120085	7.360	ppbv	100
79) Naphthalene	22.42	128	3670774	10.515	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	1138962	13.027	ppbv	100
81) 1,2,4-Trichlorobenzene	22.15	180	1782982	10.171	ppbv	98

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

