

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101718\
 Data File : VL032634.D
 Acq On : 17 Oct 2018 7:15
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101718

Manual Integrations
 APPROVED

MMDadoda
 10/19/2018 4:36:31 PM

Quant Time: Oct 17 16:28:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Oct 17 2018
 QLast Update : Wed Oct 17 08:55:11 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1235852	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	2908209	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	2964594	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.60	95	2264330	10.14	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.09	85	1011244	11.15	ppbv	98
3) Chlorodifluoromethane	3.03	51	1036202	10.02	ppbv	100
4) Chloromethane	3.18	50	585207	10.37	ppbv	99
5) Vinyl Chloride	3.31	62	594126	10.45	ppbv	99
6) Bromomethane	3.53	94	354083	9.86	ppbv	91
7) Chloroethane	3.62	64	224343	10.08	ppbv	97
8) Dichlorotetrafluoroethane	3.23	85	1357259	9.74	ppbv	99
9) Propene	3.05	41	438601	11.57	ppbv	99
10) Heptane	8.27	43	1613772	11.37	ppbv	99
11) Trichlorofluoromethane	4.02	101	1540274	9.70	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.57	101	1074175	9.24	ppbv	100
13) Ethanol	3.67	45	114634	9.77	ppbv	96
14) Bromoethene	3.80	108	431959	10.16	ppbv	98
15) Acetone	3.92	43	1005963	9.15	ppbv	99
16) 1,3-Butadiene	3.38	39	420153	10.32	ppbv	97
17) tert-Butyl alcohol	4.38	59	104917	10.45	ppbv #	100
18) 1,1-Dichloroethene	4.37	96	515657	9.84	ppbv	99
19) Isopropyl Alcohol	4.04	45	850506	10.95	ppbv #	98
20) Methylene Chloride	4.43	84	443700	9.01	ppbv	97
21) Allyl Chloride	4.49	41	869502	10.53	ppbv	99
22) trans-1,2-Dichloroethene	4.98	96	596038	9.84	ppbv	92
23) Vinyl Acetate	5.17	43	2022528	11.56	ppbv	99
24) 1,1-Dichloroethane	5.11	63	1623723	10.01	ppbv	99
25) Ethyl Acetate	5.79	43	2595251	9.97	ppbv	100
26) Hexane	5.80	57	1215232	10.37	ppbv	100
27) Carbon Disulfide	4.64	76	1381885	9.76	ppbv	100
28) Methyl tert-Butyl Ether	5.13	73	1682536	11.42	ppbv	99
29) Chloroform	5.87	83	2020535	9.84	ppbv	99
30) Cyclohexane	7.27	84	1062722	11.50	ppbv	99
31) cis-1,2-Dichloroethene	5.66	61	1272294	11.30	ppbv	96
32) 1,1,1-Trichloroethane	6.64	97	1979722	9.66	ppbv	99
34) 2-Butanone	5.35	43	1777344	11.01	ppbv	99
35) Carbon Tetrachloride	7.16	117	2069534	9.18	ppbv	98
36) Benzene	7.03	78	2568725	10.90	ppbv	98
37) 1,2-Dichloroethane	6.43	62	1590175	9.84	ppbv	99
38) Trichloroethene	7.98	130	946023	10.67	ppbv	98
39) 1,2-Dichloropropane	7.76	63	1000932	10.44	ppbv	99
40) 1,4-Dioxane	7.98	88	335705	10.13	ppbv #	91
41) Tetrahydrofuran	6.17	42	1006364	11.75	ppbv	100
42) Bromodichloromethane	7.94	83	2199688	9.98	ppbv	99
43) Methyl Methacrylate	8.16	69	1076452	11.78	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.01	57	4478210	10.72	ppbv	100
45) t-1,3-Dichloropropene	9.44	75	1500099	12.55	ppbv	99
46) cis-1,3-Dichloropropene	8.86	75	1637478	12.04	ppbv	99
47) 1,1,2-Trichloroethane	9.64	97	1140352	9.95	ppbv	98
48) Dibromochloromethane	10.47	129	1982759	10.19	ppbv	99
49) Bromoform	13.23	173	1499965	10.20	ppbv	100
50) 4-Methyl-2-Pentanone	8.89	43	2594406	10.92	ppbv	99
51) 2-Hexanone	10.29	43	2280193	12.21	ppbv	99
52) Tetrachloroethene	11.40	164	823909	10.62	ppbv	100
53) Toluene	9.97	91	3202492	11.92	ppbv	99
54) 1,2-Dibromoethane	10.79	107	1772990	10.81	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.30	131	1292509	9.49	ppbv	99
57) Chlorobenzene	12.33	112	2219793	9.85	ppbv	100
58) Ethyl Benzene	12.89	91	3978231	11.95	ppbv	100
59) m/p-Xylene	13.18	91	6540859m	22.01	ppbv	
60) o-Xylene	13.87	91	3235802	10.93	ppbv	100
61) Styrene	13.71	104	2321702	12.94	ppbv	100
62) Isopropylbenzene	14.85	105	4533573	10.75	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.86	83	2402560	9.19	ppbv	99
64) n-propylbenzene	15.74	120	1165494	10.90	ppbv	99
65) tert-Butylbenzene	16.93	119	3845191	10.74	ppbv	100
66) Benzyl Chloride	17.18	91	2302791	11.41	ppbv	99
67) sec-Butylbenzene	17.48	105	5707625	10.59	ppbv	100
69) p-Isopropyltoluene	17.84	119	4531823	11.11	ppbv	100
70) n-Butylbenzene	18.74	91	4909321	10.93	ppbv	100
71) 2-Chlorotoluene	15.64	91	3569363	11.44	ppbv	99
72) 4-Ethyltoluene	16.02	105	3725408	11.64	ppbv	99
73) 1,3,5-Trimethylbenzene	16.18	105	3540712	11.12	ppbv	98
74) 1,2,4-Trimethylbenzene	16.95	105	3580097	10.21	ppbv	92
75) 1,3-Dichlorobenzene	17.19	146	1962981	9.63	ppbv	100
76) 1,4-Dichlorobenzene	17.33	146	1928383	10.39	ppbv	99
77) 1,2-Dichlorobenzene	18.01	146	1960654	10.01	ppbv	100
78) Hexachloro-1,3-Butadiene	23.57	225	1166560	10.64	ppbv	99
79) Naphthalene	22.44	128	2978072m	12.49	ppbv	
80) Naphthalene,2-methyl-	25.13	142	879829	11.30	ppbv	100
81) 1,2,4-Trichlorobenzene	22.16	180	1409694	11.91	ppbv	99

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

