

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071218\
 Data File : VL032235.D
 Acq On : 13 Jul 2018 00:11
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL071218

Manual Integrations
 APPROVED

MMDadoda
 7/13/2018 5:22:16 PM

Quant Time: Jul 13 05:24:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL071218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 13 2018
 QLast Update : Fri Jul 13 04:25:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1871589	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.38	114	4256057	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.34	117	5171836m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	3991893	9.97	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.70%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.13	85	2853585	10.59	ppbv	99
3) Chlorodifluoromethane	3.06	51	1877786	8.16	ppbv	99
4) Chloromethane	3.22	50	1065503	8.14	ppbv	99
5) Vinyl Chloride	3.35	62	1028243	7.98	ppbv	97
6) Bromomethane	3.57	94	601981	8.39	ppbv	98
7) Chloroethane	3.66	64	383108	8.63	ppbv	94
8) Dichlorotetrafluoroethane	3.27	85	2120800	7.17	ppbv	99
9) Propene	3.09	41	904803	9.23	ppbv	100
10) Heptane	8.34	43	2638345	9.48	ppbv	98
11) Trichlorofluoromethane	4.07	101	2121769	8.23	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.62	101	1386860	8.42	ppbv	99
13) Ethanol	3.71	45	200413	7.08	ppbv	98
14) Bromoethene	3.85	108	673486	8.67	ppbv	99
15) Acetone	3.96	43	1631287	7.51	ppbv	100
16) 1,3-Butadiene	3.42	39	1031360	9.40	ppbv	91
17) tert-Butyl alcohol	4.43	59	1433986	14.14	ppbv	99
18) 1,1-Dichloroethene	4.42	96	685105	8.94	ppbv	92
19) Isopropyl Alcohol	4.09	45	1185385	8.31	ppbv	99
20) Methylene Chloride	4.48	84	591121	8.03	ppbv	99
21) Allyl Chloride	4.55	41	1219560	9.59	ppbv	99
22) trans-1,2-Dichloroethene	5.04	96	753460	10.33	ppbv	98
23) Vinyl Acetate	5.23	43	3570970	9.89	ppbv	99
24) 1,1-Dichloroethane	5.17	63	2352394	9.28	ppbv	99
25) Ethyl Acetate	5.85	43	3872956	9.01	ppbv	99
26) Hexane	5.86	57	1799120	9.18	ppbv	98
27) Carbon Disulfide	4.69	76	1731093	9.87	ppbv	99
28) Methyl tert-Butyl Ether	5.19	73	3104697	10.06	ppbv	99
29) Chloroform	5.93	83	2686054	8.87	ppbv	97
30) Cyclohexane	7.33	84	1640366	9.48	ppbv	99
31) cis-1,2-Dichloroethene	5.72	61	1908436	9.75	ppbv	99
32) 1,1,1-Trichloroethane	6.71	97	2724533	9.28	ppbv	100
34) 2-Butanone	5.40	43	2735490	9.43	ppbv	99
35) Carbon Tetrachloride	7.22	117	2695999	9.36	ppbv	99
36) Benzene	7.09	78	3916755	9.26	ppbv	99
37) 1,2-Dichloroethane	6.49	62	2121421	9.16	ppbv	99
38) Trichloroethene	8.05	130	1292112	8.91	ppbv	97
39) 1,2-Dichloropropane	7.83	63	1574473	9.37	ppbv	98
40) 1,4-Dioxane	8.05	88	459485	7.97	ppbv #	39
41) Tetrahydrofuran	6.23	42	1627359	10.03	ppbv	99
42) Bromodichloromethane	8.01	83	3070089	9.31	ppbv	100
43) Methyl Methacrylate	8.22	69	1620330	9.91	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.08	57	6775390	9.31	ppbv	99
45) t-1,3-Dichloropropene	9.51	75	2093313	10.75	ppbv	100
46) cis-1,3-Dichloropropene	8.93	75	2880274	10.85	ppbv	98
47) 1,1,2-Trichloroethane	9.71	97	1734182	9.24	ppbv	97
48) Dibromochloromethane	10.55	129	2770992	9.92	ppbv	100
49) Bromoform	13.31	173	2195073	9.80	ppbv	99
50) 4-Methyl-2-Pentanone	8.96	43	4839032	9.65	ppbv	99
51) 2-Hexanone	10.37	43	3913860	9.34	ppbv #	99
52) Tetrachloroethene	11.47	164	1364165	8.73	ppbv	94
53) Toluene	10.04	91	5019490	10.04	ppbv	99
54) 1,2-Dibromoethane	10.86	107	2710874	9.78	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.38	131	1948678	8.67	ppbv	97
57) Chlorobenzene	12.40	112	3648411	8.35	ppbv	98
58) Ethyl Benzene	12.96	91	7015263	9.32	ppbv	100
59) m/p-Xylene	13.25	91	11322898m	18.27	ppbv	
60) o-Xylene	13.95	91	5385227	8.81	ppbv	100
61) Styrene	13.78	104	4459767	9.73	ppbv	100
62) Isopropylbenzene	14.92	105	7534506	8.79	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.94	83	3735405	7.51	ppbv	99
64) n-propylbenzene	15.82	120	1925202	8.87	ppbv	100
65) tert-Butylbenzene	17.01	119	6022211	8.39	ppbv	100
66) Benzyl Chloride	17.25	91	3679576	10.12	ppbv	99
67) sec-Butylbenzene	17.56	105	9032667	8.61	ppbv	100
69) p-Isopropyltoluene	17.91	119	7113573	8.71	ppbv	99
70) n-Butylbenzene	18.81	91	7754213	8.59	ppbv	99
71) 2-Chlorotoluene	15.72	91	5943335	8.81	ppbv	100
72) 4-Ethyltoluene	16.10	105	6192248	9.03	ppbv	100
73) 1,3,5-Trimethylbenzene	16.25	105	5864196	9.19	ppbv	98
74) 1,2,4-Trimethylbenzene	17.03	105	5648035	8.66	ppbv	99
75) 1,3-Dichlorobenzene	17.27	146	2989219	7.68	ppbv	99
76) 1,4-Dichlorobenzene	17.41	146	3061293	8.03	ppbv	100
77) 1,2-Dichlorobenzene	18.09	146	2929679	7.58	ppbv	99
78) Hexachloro-1,3-Butadiene	23.63	225	791288	6.56	ppbv	99
79) Naphthalene	22.53	128	4569017	10.43	ppbv	99
80) Naphthalene, 2-methyl-	25.19	142	2453630	17.54	ppbv	100
81) 1,2,4-Trichlorobenzene	22.25	180	2112886	9.64	ppbv	99

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

