

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070218\
 Data File : VL032176.D
 Acq On : 2 Jul 2018 10:00
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 7/3/2018 5:17:04 PM

Quant Time: Jul 03 05:05:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 2018
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.85	49	1461780	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.39	114	4047441	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.34	117	3851878m	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.68	95	2869441	9.75	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	1608755	8.36	ppbv	99
3) Chlorodifluoromethane	3.07	51	1683104	9.42	ppbv	95
4) Chloromethane	3.23	50	925229	9.70	ppbv	98
5) Vinyl Chloride	3.35	62	918132	9.53	ppbv	99
6) Bromomethane	3.58	94	530647	9.67	ppbv	97
7) Chloroethane	3.67	64	323186	9.49	ppbv	99
8) Dichlorotetrafluoroethane	3.28	85	2014349	9.38	ppbv	93
9) Propene	3.09	41	738466	8.87	ppbv	98
10) Heptane	8.34	43	2387412	9.84	ppbv	98
11) Trichlorofluoromethane	4.07	101	1946699	9.35	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.63	101	1248722	9.00	ppbv	93
13) Ethanol	3.72	45	174065	6.90	ppbv	96
14) Bromoethene	3.85	108	625017	9.47	ppbv	99
15) Acetone	3.97	43	1487033	8.70	ppbv	99
16) 1,3-Butadiene	3.42	39	839368	10.29	ppbv	90
17) tert-Butyl alcohol	4.43	59	892310	8.20	ppbv	98
18) 1,1-Dichloroethene	4.42	96	596922	9.00	ppbv	96
19) Isopropyl Alcohol	4.09	45	1192130	8.39	ppbv #	41
20) Methylene Chloride	4.48	84	523365	8.38	ppbv	94
21) Allyl Chloride	4.55	41	1050328	9.00	ppbv	96
22) trans-1,2-Dichloroethene	5.04	96	664248	9.58	ppbv	98
23) Vinyl Acetate	5.23	43	2866530	9.25	ppbv	99
24) 1,1-Dichloroethane	5.17	63	1931958	9.73	ppbv	99
25) Ethyl Acetate	5.85	43	3261935	9.22	ppbv	99
26) Hexane	5.86	57	1502813	9.23	ppbv	97
27) Carbon Disulfide	4.69	76	1572254	9.71	ppbv	100
28) Methyl tert-Butyl Ether	5.19	73	2632405	9.15	ppbv	100
29) Chloroform	5.94	83	2348495	9.91	ppbv	98
30) Cyclohexane	7.34	84	1598461	10.41	ppbv	98
31) cis-1,2-Dichloroethene	5.72	61	1621999	9.97	ppbv	92
32) 1,1,1-Trichloroethane	6.71	97	2685342	10.81	ppbv	98
34) 2-Butanone	5.41	43	2262691	8.81	ppbv	99
35) Carbon Tetrachloride	7.23	117	2658383	9.60	ppbv	95
36) Benzene	7.10	78	3847090	9.82	ppbv	99
37) 1,2-Dichloroethane	6.50	62	1854445	9.50	ppbv	97
38) Trichloroethene	8.06	130	1277201	8.35	ppbv	95
39) 1,2-Dichloropropane	7.83	63	1481719	9.59	ppbv	97
40) 1,4-Dioxane	8.05	88	512042	8.45	ppbv #	1
41) Tetrahydrofuran	6.23	42	1338170	8.69	ppbv	97
42) Bromodichloromethane	8.01	83	2992374	9.78	ppbv	96
43) Methyl Methacrylate	8.23	69	1593007	9.81	ppbv	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.09	57	6220701	9.08	ppbv	99
45) t-1,3-Dichloropropene	9.51	75	1980129	9.84	ppbv	100
46) cis-1,3-Dichloropropene	8.93	75	2324594	9.68	ppbv	99
47) 1,1,2-Trichloroethane	9.72	97	1489713	9.28	ppbv	99
48) Dibromochloromethane	10.56	129	2338642	9.41	ppbv	100
49) Bromoform	13.30	173	1880307	9.03	ppbv	100
50) 4-Methyl-2-Pentanone	8.97	43	3850309	9.15	ppbv	100
51) 2-Hexanone	10.37	43	3244348	9.30	ppbv #	99
52) Tetrachloroethene	11.48	164	1142621	8.02	ppbv	97
53) Toluene	10.05	91	4347640	9.18	ppbv	99
54) 1,2-Dibromoethane	10.86	107	2247032	9.31	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.38	131	1590508	9.25	ppbv	97
57) Chlorobenzene	12.40	112	3069801	9.20	ppbv	98
58) Ethyl Benzene	12.97	91	5776576	9.31	ppbv	95
59) m/p-Xylene	13.25	91	9276354m	18.64	ppbv	
60) o-Xylene	13.95	91	4394197	8.85	ppbv	96
61) Styrene	13.79	104	3716827	9.14	ppbv	95
62) Isopropylbenzene	14.93	105	6317533	8.28	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.94	83	3126782	8.14	ppbv	99
64) n-propylbenzene	15.83	120	1654367m	8.38	ppbv	
65) tert-Butylbenzene	17.01	119	5551867	8.28	ppbv	93
66) Benzyl Chloride	17.26	91	3566656	8.61	ppbv	95
67) sec-Butylbenzene	17.56	105	8272057	8.43	ppbv	98
69) p-Isopropyltoluene	17.92	119	6461700	8.20	ppbv	96
70) n-Butylbenzene	18.82	91	7352035	8.94	ppbv	99
71) 2-Chlorotoluene	15.72	91	5036510	8.57	ppbv	95
72) 4-Ethyltoluene	16.11	105	5460208	8.52	ppbv	97
73) 1,3,5-Trimethylbenzene	16.26	105	5174518	8.57	ppbv	95
74) 1,2,4-Trimethylbenzene	17.03	105	5356704	8.79	ppbv	96
75) 1,3-Dichlorobenzene	17.27	146	2921978	8.43	ppbv	97
76) 1,4-Dichlorobenzene	17.41	146	3028687	8.62	ppbv	97
77) 1,2-Dichlorobenzene	18.09	146	2953851	8.53	ppbv	97
78) Hexachloro-1,3-Butadiene	23.64	225	1725729	14.31	ppbv	99
79) Naphthalene	22.53	128	5318521	9.60	ppbv	99
80) Naphthalene, 2-methyl-	25.19	142	2662161	13.32	ppbv	96
81) 1,2,4-Trichlorobenzene	22.26	180	2475965	9.90	ppbv	98

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

