

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081618\
 Data File : VL032378.D
 Acq On : 16 Aug 2018 14:23
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 8/28/2018 2:52:58 PM

Quant Time: Aug 28 13:42:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 28 2018
 QLast Update : Tue Aug 28 13:07:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	1456354	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	3223341	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.31	117	3383385m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.65	95	2543265	9.85	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.50%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.11	85	1440465	9.70	ppbv	97
3) Chlorodifluoromethane	3.05	51	1290910	9.57	ppbv	96
4) Chloromethane	3.21	50	729650	9.09	ppbv	99
5) Vinyl Chloride	3.33	62	729288	9.53	ppbv	97
6) Bromomethane	3.55	94	432096	10.53	ppbv	97
7) Chloroethane	3.64	64	269321	10.03	ppbv	98
8) Dichlorotetrafluoroethane	3.26	85	1568217	9.53	ppbv	99
9) Propene	3.07	41	571762	9.90	ppbv	100
10) Heptane	8.31	43	1868617	10.75	ppbv	98
11) Trichlorofluoromethane	4.05	101	1605058	9.85	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.60	101	1048171	9.56	ppbv	99
13) Ethanol	3.69	45	173601	11.71	ppbv	99
14) Bromoethene	3.83	108	490783	10.35	ppbv	99
15) Acetone	3.95	43	1244794	9.00	ppbv	97
16) 1,3-Butadiene	3.40	39	608242	10.65	ppbv	88
17) tert-Butyl alcohol	4.41	59	259080	11.16	ppbv	99
18) 1,1-Dichloroethene	4.40	96	510210	9.98	ppbv	97
19) Isopropyl Alcohol	4.06	45	1015007	10.89	ppbv	99
20) Methylene Chloride	4.46	84	455411	8.71	ppbv	97
21) Allyl Chloride	4.52	41	924768	10.59	ppbv	93
22) trans-1,2-Dichloroethene	5.01	96	522661	10.14	ppbv	98
23) Vinyl Acetate	5.21	43	2461570	10.30	ppbv	98
24) 1,1-Dichloroethane	5.14	63	1694237	9.82	ppbv	100
25) Ethyl Acetate	5.82	43	2946560	9.94	ppbv	100
26) Hexane	5.83	57	1346911	10.19	ppbv	99
27) Carbon Disulfide	4.67	76	1331835	10.79	ppbv	98
28) Methyl tert-Butyl Ether	5.16	73	2031104	11.58	ppbv	98
29) Chloroform	5.90	83	2183358	11.27	ppbv	98
30) Cyclohexane	7.31	84	1135259	11.27	ppbv	97
31) cis-1,2-Dichloroethene	5.69	61	1259336	9.74	ppbv	98
32) 1,1,1-Trichloroethane	6.68	97	2127646	11.29	ppbv	99
34) 2-Butanone	5.38	43	1808195	8.24	ppbv	100
35) Carbon Tetrachloride	7.20	117	2113973	11.12	ppbv	98
36) Benzene	7.06	78	2895906	10.60	ppbv	100
37) 1,2-Dichloroethane	6.47	62	1573004	9.49	ppbv	98
38) Trichloroethene	8.02	130	987646	10.30	ppbv	99
39) 1,2-Dichloropropane	7.80	63	1116696	9.78	ppbv	99
40) 1,4-Dioxane	8.02	88	385502	11.12	ppbv	94
41) Tetrahydrofuran	6.20	42	1257986	10.68	ppbv	98
42) Bromodichloromethane	7.98	83	2345076	10.80	ppbv	96
43) Methyl Methacrylate	8.20	69	1191093	10.94	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.05	57	5012289	10.17	ppbv	99
45) t-1,3-Dichloropropene	9.48	75	1711481	12.43	ppbv	95
46) cis-1,3-Dichloropropene	8.90	75	1987052	12.03	ppbv	96
47) 1,1,2-Trichloroethane	9.68	97	1233679	9.82	ppbv	96
48) Dibromochloromethane	10.52	129	1857105	11.06	ppbv	99
49) Bromoform	13.27	173	1483389	10.63	ppbv	100
50) 4-Methyl-2-Pentanone	8.93	43	3269203	10.32	ppbv	100
51) 2-Hexanone	10.33	43	2682306	12.06	ppbv #	99
52) Tetrachloroethene	11.44	164	851281	10.56	ppbv	95
53) Toluene	10.01	91	3488547	11.65	ppbv	99
54) 1,2-Dibromoethane	10.83	107	1724796	10.69	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.34	131	1288997	9.21	ppbv	99
57) Chlorobenzene	12.37	112	2278849	8.95	ppbv	99
58) Ethyl Benzene	12.93	91	4269769	10.49	ppbv	99
59) m/p-Xylene	13.22	91	6850280m	19.81	ppbv	
60) o-Xylene	13.92	91	3344750	9.84	ppbv	98
61) Styrene	13.76	104	2601303	10.95	ppbv	99
62) Isopropylbenzene	14.89	105	4754023	9.83	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.91	83	2450721	8.57	ppbv	99
64) n-propylbenzene	15.79	120	1223717	9.77	ppbv	93
65) tert-Butylbenzene	16.98	119	3956768	9.57	ppbv	99
66) Benzyl Chloride	17.22	91	2673810	10.93	ppbv	99
67) sec-Butylbenzene	17.53	105	5950398	9.68	ppbv	99
69) p-Isopropyltoluene	17.88	119	4731205	10.06	ppbv	99
70) n-Butylbenzene	18.78	91	5200035	10.08	ppbv	99
71) 2-Chlorotoluene	15.68	91	3829664	10.23	ppbv	99
72) 4-Ethyltoluene	16.07	105	3971773	10.48	ppbv	99
73) 1,3,5-Trimethylbenzene	16.22	105	3779564	10.37	ppbv	100
74) 1,2,4-Trimethylbenzene	17.00	105	3728334	9.61	ppbv	94
75) 1,3-Dichlorobenzene	17.24	146	2080013	8.92	ppbv	100
76) 1,4-Dichlorobenzene	17.38	146	2091702	9.47	ppbv	99
77) 1,2-Dichlorobenzene	18.05	146	2046647	9.19	ppbv	99
78) Hexachloro-1,3-Butadiene	23.61	225	1294479	17.31	ppbv	100
79) Naphthalene	22.49	128	3655844	12.91	ppbv	99
80) Naphthalene, 2-methyl-	25.16	142	1541116	19.91	ppbv	99
81) 1,2,4-Trichlorobenzene	22.21	180	1719526	11.46	ppbv	100

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

