

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081618\
 Data File : VL032404.D
 Acq On : 17 Aug 2018 12:40
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 8/28/2018 2:53:01 PM

Quant Time: Aug 18 00:06:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 1
 QLast Update : Wed Aug 15 14:58:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	1775150	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.36	114	3687000	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.31	117	3627463m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.65	95	2736165	9.89	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.11	85	1827243	12.94	ppbv	99
3) Chlorodifluoromethane	3.05	51	1643818	10.00	ppbv	100
4) Chloromethane	3.21	50	991599	10.13	ppbv	95
5) Vinyl Chloride	3.33	62	937845	10.05	ppbv	97
6) Bromomethane	3.55	94	513676	10.27	ppbv	99
7) Chloroethane	3.64	64	338449	10.35	ppbv	94
8) Dichlorotetrafluoroethane	3.26	85	1946745	9.70	ppbv	99
9) Propene	3.07	41	784753	11.15	ppbv	99
10) Heptane	8.31	43	2602595	12.28	ppbv	100
11) Trichlorofluoromethane	4.05	101	1951637	9.83	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.60	101	1302963	9.75	ppbv	98
13) Ethanol	3.69	45	201381	11.14	ppbv	94
14) Bromoethene	3.83	108	608607	10.53	ppbv	99
15) Acetone	3.95	43	1558729	9.24	ppbv	100
16) 1,3-Butadiene	3.40	39	758059	10.89	ppbv	91
17) tert-Butyl alcohol	4.40	59	301649	10.66	ppbv	100
18) 1,1-Dichloroethene	4.40	96	632372	10.15	ppbv	95
19) Isopropyl Alcohol	4.06	45	1226136	10.80	ppbv	100
20) Methylene Chloride	4.46	84	556960	8.74	ppbv	92
21) Allyl Chloride	4.52	41	1156358	10.86	ppbv	100
22) trans-1,2-Dichloroethene	5.01	96	679040	10.81	ppbv	98
23) Vinyl Acetate	5.21	43	3062432	10.52	ppbv	99
24) 1,1-Dichloroethane	5.14	63	2148772	10.22	ppbv	99
25) Ethyl Acetate	5.82	43	3758132	10.40	ppbv	99
26) Hexane	5.84	57	1701217	10.56	ppbv	99
27) Carbon Disulfide	4.67	76	1642134	10.92	ppbv	100
28) Methyl tert-Butyl Ether	5.16	73	2364548	11.06	ppbv	100
29) Chloroform	5.90	83	2474293	10.48	ppbv	99
30) Cyclohexane	7.31	84	1374287	11.20	ppbv	98
31) cis-1,2-Dichloroethene	5.69	61	1768243	11.22	ppbv	98
32) 1,1,1-Trichloroethane	6.68	97	2275514	9.90	ppbv	99
34) 2-Butanone	5.38	43	2673309	10.65	ppbv	98
35) Carbon Tetrachloride	7.20	117	2369705	10.90	ppbv	95
36) Benzene	7.07	78	3390910	10.85	ppbv	100
37) 1,2-Dichloroethane	6.47	62	1962656	10.35	ppbv	99
38) Trichloroethene	8.03	130	1224526	11.17	ppbv	99
39) 1,2-Dichloropropane	7.80	63	1370475	10.50	ppbv	100
40) 1,4-Dioxane	8.02	88	478845	12.07	ppbv	84
41) Tetrahydrofuran	6.20	42	1557042	11.56	ppbv	99
42) Bromodichloromethane	7.98	83	2692860	10.84	ppbv	98
43) Methyl Methacrylate	8.20	69	1568065	12.59	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.05	57	6528799	11.58	ppbv	100
45) t-1,3-Dichloropropene	9.48	75	1849975	11.74	ppbv	96
46) cis-1,3-Dichloropropene	8.90	75	2299237	12.17	ppbv	98
47) 1,1,2-Trichloroethane	9.68	97	1311565	9.13	ppbv	96
48) Dibromochloromethane	10.52	129	2052170	10.68	ppbv	99
49) Bromoform	13.27	173	1732304	10.86	ppbv	100
50) 4-Methyl-2-Pentanone	8.93	43	3990834	11.01	ppbv	100
51) 2-Hexanone	10.34	43	2831760	11.13	ppbv	99
52) Tetrachloroethene	11.44	164	966972	10.49	ppbv	96
53) Toluene	10.01	91	3696880	10.79	ppbv	99
54) 1,2-Dibromoethane	10.83	107	1966512	10.65	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.35	131	1518232	10.12	ppbv #	59
57) Chlorobenzene	12.37	112	2728574	9.99	ppbv	96
58) Ethyl Benzene	12.93	91	4931536	11.30	ppbv	100
59) m/p-Xylene	13.22	91	8001217m	21.58	ppbv	
60) o-Xylene	13.92	91	3858645	10.59	ppbv	100
61) Styrene	13.75	104	3019176	11.86	ppbv	100
62) Isopropylbenzene	14.89	105	5468903	10.54	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.90	83	2928401	9.56	ppbv	100
64) n-propylbenzene	15.79	120	1445431	10.77	ppbv	97
65) tert-Butylbenzene	16.98	119	4699138	10.61	ppbv	100
66) Benzyl Chloride	17.22	91	3157329	12.03	ppbv	99
67) sec-Butylbenzene	17.53	105	7135366	10.83	ppbv	99
69) p-Isopropyltoluene	17.88	119	5648645	11.20	ppbv	100
70) n-Butylbenzene	18.78	91	6207867	11.23	ppbv	99
71) 2-Chlorotoluene	15.68	91	4415176	11.00	ppbv	100
72) 4-Ethyltoluene	16.07	105	4599490	11.32	ppbv	100
73) 1,3,5-Trimethylbenzene	16.23	105	4382359	11.21	ppbv	100
74) 1,2,4-Trimethylbenzene	17.00	105	4433756	10.66	ppbv	96
75) 1,3-Dichlorobenzene	17.23	146	2495029	9.98	ppbv	100
76) 1,4-Dichlorobenzene	17.38	146	2532092	10.69	ppbv	100
77) 1,2-Dichlorobenzene	18.06	146	2505702	10.49	ppbv	100
78) Hexachloro-1,3-Butadiene	23.60	225	759658	9.48	ppbv	100
79) Naphthalene	22.49	128	4129905	10.60	ppbv	99
80) Naphthalene, 2-methyl-	25.16	142	1658657	19.99	ppbv	100
81) 1,2,4-Trichlorobenzene	22.21	180	1933361	12.02	ppbv	99

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

