

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031819\
 Data File : VL033388.D
 Acq On : 19 Mar 2019 12:53
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 3/21/2019 12:16:09 PM

Quant Time: Mar 20 01:56:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	792418	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1856250	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2200226	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1536958	9.43	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.08	85	1639626	11.766	ppbv 98
3) Chlorodifluoromethane	3.01	51	966132	10.622	ppbv 99
4) Chloromethane	3.17	50	523217	10.624	ppbv 96
5) Vinyl Chloride	3.29	62	518449	10.204	ppbv 98
6) Bromomethane	3.52	94	332504	11.010	ppbv 98
7) Chloroethane	3.60	64	194278	10.943	ppbv 98
8) Dichlorotetrafluoroethane	3.22	85	1286968	10.848	ppbv 99
9) Propene	3.04	41	423126	10.422	ppbv 99
10) Heptane	8.25	43	1097365	10.897	ppbv 100
11) Trichlorofluoromethane	4.00	101	1437262	10.358	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	974022	10.580	ppbv 98
13) Ethanol	3.65	45	101111	5.224	ppbv 100
14) Bromoethene	3.79	108	418744	10.912	ppbv 99
15) Acetone	3.90	43	940934	7.639	ppbv 99
16) 1,3-Butadiene	3.36	39	427720	10.691	ppbv 99
17) tert-Butyl alcohol	4.36	59	168589	9.725	ppbv 99
18) 1,1-Dichloroethene	4.35	96	433782	10.304	ppbv 97
19) Isopropyl Alcohol	4.02	45	602127	10.276	ppbv 99
20) Methylene Chloride	4.41	84	366108	9.113	ppbv 97
21) Allyl Chloride	4.48	41	664026	11.113	ppbv 99
22) trans-1,2-Dichloroethene	4.96	96	443059	10.860	ppbv 98
23) Vinyl Acetate	5.16	43	1516923	10.643	ppbv 98
24) 1,1-Dichloroethane	5.09	63	1067074	10.366	ppbv 99
25) Ethyl Acetate	5.77	43	1858462	10.379	ppbv 100
26) Hexane	5.78	57	825900	10.317	ppbv 99
27) Carbon Disulfide	4.62	76	1044861	11.338	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	1250533	10.517	ppbv 99
29) Chloroform	5.85	83	1382707	10.549	ppbv 99
30) Cyclohexane	7.25	84	699588	10.900	ppbv 98
31) cis-1,2-Dichloroethene	5.64	61	859073	10.733	ppbv 95
32) 1,1,1-Trichloroethane	6.62	97	1327491	10.315	ppbv 99
34) 2-Butanone	5.33	43	1226989	10.065	ppbv 99
35) Carbon Tetrachloride	7.14	117	1431002	10.935	ppbv 98
36) Benzene	7.01	78	1742443	10.489	ppbv 100
37) 1,2-Dichloroethane	6.42	62	1061788	10.108	ppbv 100
38) Trichloroethene	7.96	130	664171	10.565	ppbv 98
39) 1,2-Dichloropropane	7.73	63	655783	10.541	ppbv 98
40) 1,4-Dioxane	7.95	88	241193	11.010	ppbv 86
41) Tetrahydrofuran	6.15	42	696075	10.700	ppbv 99
42) Bromodichloromethane	7.92	83	1522605	10.811	ppbv 98
43) Methyl Methacrylate	8.14	69	712165	11.010	ppbv 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.99	57	2902316	10.548	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	944471	11.827	ppbv	97
46) cis-1,3-Dichloropropene	8.84	75	1080955	11.495	ppbv	96
47) 1,1,2-Trichloroethane	9.61	97	723739	10.529	ppbv	95
48) Dibromochloromethane	10.45	129	1272330	11.037	ppbv	100
49) Bromoform	13.20	173	1292784	11.822	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1813758	10.533	ppbv	99
51) 2-Hexanone	10.27	43	1414236	10.645	ppbv #	100
52) Tetrachloroethene	11.37	164	742883	10.734	ppbv	99
53) Toluene	9.95	91	2048382	10.852	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1158712	9.972	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.28	131	1020521	10.369	ppbv	97
57) Chlorobenzene	12.30	112	1741470	9.994	ppbv	100
58) Ethyl Benzene	12.86	91	3237377	10.401	ppbv	99
59) m/p-Xylene	13.12	91	5417854m	20.255	ppbv	
60) o-Xylene	13.85	91	2659657	10.192	ppbv	99
61) Styrene	13.69	104	1983838	10.858	ppbv	99
62) Isopropylbenzene	14.83	105	3716855	10.245	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	1829927	9.701	ppbv	99
64) n-propylbenzene	15.72	120	957593	10.431	ppbv	98
65) tert-Butylbenzene	16.91	119	3297664	10.096	ppbv	100
66) Benzyl Chloride	17.16	91	1717243	12.723	ppbv	100
67) sec-Butylbenzene	17.46	105	4718922	10.196	ppbv	100
69) p-Isopropyltoluene	17.81	119	3912160	10.346	ppbv	100
70) n-Butylbenzene	18.72	91	4134208	10.254	ppbv	100
71) 2-Chlorotoluene	15.62	91	2883877	10.212	ppbv	99
72) 4-Ethyltoluene	16.00	105	3118362	10.523	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	2975533	10.307	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	3048656	9.971	ppbv	93
75) 1,3-Dichlorobenzene	17.17	146	1775233	9.851	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1771171	10.151	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1728055	10.125	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	962122	9.402	ppbv	99
79) Naphthalene	22.41	128	2975827	10.100	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	1378483	9.867	ppbv	98
81) 1,2,4-Trichlorobenzene	22.14	180	1503624	10.008	ppbv	100

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

