

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073019\
 Data File : VL034048.D
 Acq On : 30 Jul 2019 2:07
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMdadoda
 8/2/2019 9:37:33 AM

Quant Time: Jul 30 05:15:17 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073019AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 30

QLast Update : Tue Jul 30 05:02:48 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1233065	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.25	114	4274449	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	3295100m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	2522016	9.33	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	2379147	9.184	ppbv 100
3) Chlorodifluoromethane	2.99	51	1525346	9.861	ppbv 100
4) Chloromethane	3.14	50	964741	10.607	ppbv 100
5) Vinyl Chloride	3.26	62	1060616	10.485	ppbv 100
6) Bromomethane	3.48	94	721909	11.766	ppbv 100
7) Chloroethane	3.57	64	445218	11.907	ppbv 100
8) Dichlorotetrafluoroethane	3.19	85	2723635	10.585	ppbv 100
9) Propene	3.01	41	570697	10.035	ppbv 100
10) Heptane	8.20	43	1374946	10.008	ppbv 100
11) Trichlorofluoromethane	3.97	101	3118729	10.432	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.52	101	1576393	7.924	ppbv 100
13) Ethanol	3.62	45	168516m	9.431	ppbv
14) Bromoethene	3.76	108	846881	10.904	ppbv 100
15) Acetone	3.87	43	2093529	9.702	ppbv 100
16) 1,3-Butadiene	3.34	39	968238	12.403	ppbv 100
17) tert-Butyl alcohol	4.32	59	1519423	9.244	ppbv 100
18) 1,1-Dichloroethene	4.31	96	767080	8.605	ppbv 100
19) Isopropyl Alcohol	3.99	45	1534843	10.582	ppbv 99
20) Methylene Chloride	4.37	84	636734	7.164	ppbv 100
21) Allyl Chloride	4.44	41	1099294	8.633	ppbv 100
22) trans-1,2-Dichloroethene	4.92	96	784508	9.238	ppbv 100
23) Vinyl Acetate	5.12	43	2001452	9.863	ppbv 100
24) 1,1-Dichloroethane	5.05	63	1672178	9.203	ppbv 100
25) Ethyl Acetate	5.72	43	2653599	9.472	ppbv 100
26) Hexane	5.74	57	1209849	9.426	ppbv 100
27) Carbon Disulfide	4.58	76	1900819	8.795	ppbv 100
28) Methyl tert-Butyl Ether	5.07	73	2141249	9.886	ppbv 100
29) Chloroform	5.80	83	2106053	8.746	ppbv 100
30) Cyclohexane	7.20	84	1313388	12.496	ppbv 100
31) cis-1,2-Dichloroethene	5.60	61	1254930	10.161	ppbv 100
32) 1,1,1-Trichloroethane	6.57	97	2062698	8.454	ppbv 100
34) 2-Butanone	5.29	43	1599430	7.549	ppbv 100
35) Carbon Tetrachloride	7.08	117	2181699	6.758	ppbv 100
36) Benzene	6.96	78	2362069	7.616	ppbv 100
37) 1,2-Dichloroethane	6.37	62	1655660	7.167	ppbv 100
38) Trichloroethene	7.92	130	1041951	7.377	ppbv 100
39) 1,2-Dichloropropane	7.69	63	938736m	8.008	ppbv
40) 1,4-Dioxane	7.91	88	368495	6.894	ppbv 100
41) Tetrahydrofuran	6.10	42	832104	8.090	ppbv 100
42) Bromodichloromethane	7.87	83	2257993	7.308	ppbv 100
43) Methyl Methacrylate	8.09	69	962501	8.199	ppbv 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.94	57	3993656	7.432	ppbv	100
45) t-1,3-Dichloropropene	9.37	75	1338255	8.811	ppbv	100
46) cis-1,3-Dichloropropene	8.79	75	1501570	8.482	ppbv	100
47) 1,1,2-Trichloroethane	9.56	97	1041013	7.141	ppbv	100
48) Dibromochloromethane	10.40	129	2682035	9.138	ppbv	100
49) Bromoform	13.15	173	1826569	7.679	ppbv	100
50) 4-Methyl-2-Pentanone	8.82	43	2376489	7.621	ppbv	100
51) 2-Hexanone	10.22	43	2718658	10.199	ppbv	100
52) Tetrachloroethene	11.32	164	985745	7.227	ppbv	100
53) Toluene	9.89	91	2910928	8.243	ppbv	100
54) 1,2-Dibromoethane	10.71	107	1589676	7.435	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.23	131	1302426	8.986	ppbv	100
57) Chlorobenzene	12.25	112	2283096	8.844	ppbv	100
58) Ethyl Benzene	12.81	91	4065681	10.424	ppbv	100
59) m/p-Xylene	13.10	91	6815969m	19.289	ppbv	
60) o-Xylene	13.79	91	3417035	9.638	ppbv	100
61) Styrene	13.63	104	2519630	10.810	ppbv	100
62) Isopropylbenzene	14.78	105	4541331	8.869	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.79	83	2361346	8.582	ppbv	100
64) n-propylbenzene	15.67	120	1167303	8.814	ppbv	100
65) tert-Butylbenzene	16.86	119	4049817	9.381	ppbv	100
66) Benzyl Chloride	17.10	91	2269425	10.395	ppbv	100
67) sec-Butylbenzene	17.41	105	5687579	9.335	ppbv	100
69) p-Isopropyltoluene	17.76	119	4681621	9.344	ppbv	100
70) n-Butylbenzene	18.66	91	4918237	9.327	ppbv	100
71) 2-Chlorotoluene	15.56	91	3458042	9.273	ppbv	100
72) 4-Ethyltoluene	15.95	105	4063119	9.458	ppbv	99
73) 1,3,5-Trimethylbenzene	16.10	105	3870831	9.770	ppbv	100
74) 1,2,4-Trimethylbenzene	16.88	105	3961528	9.031	ppbv	100
75) 1,3-Dichlorobenzene	17.11	146	2358644	8.429	ppbv	100
76) 1,4-Dichlorobenzene	17.25	146	2312837	8.781	ppbv	100
77) 1,2-Dichlorobenzene	17.94	146	2217395	8.574	ppbv	100
78) Hexachloro-1,3-Butadiene	23.49	225	1824364	8.083	ppbv	100
79) Naphthalene	22.35	128	3660498	9.910	ppbv	100
80) Naphthalene, 2-methyl-	25.07	142	1181163	8.834	ppbv	100
81) 1,2,4-Trichlorobenzene	22.07	180	2204672	9.233	ppbv	100

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

