

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050619\
 Data File : VL033654.D
 Acq On : 6 May 2019 10:59
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 12:05:47 PM

Quant Time: May 06 12:23:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 0
 QLast Update : Mon May 06 12:00:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1033795	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2508739	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2793234	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2137110	9.58	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.08	85	2178109	12.634	ppbv 100
3) Chlorodifluoromethane	3.02	51	1170262	9.391	ppbv 100
4) Chloromethane	3.17	50	672616	9.797	ppbv 100
5) Vinyl Chloride	3.29	62	659586	9.234	ppbv 100
6) Bromomethane	3.52	94	421359	9.926	ppbv 100
7) Chloroethane	3.60	64	240086	10.061	ppbv 100
8) Dichlorotetrafluoroethane	3.22	85	1723524	9.912	ppbv 100
9) Propene	3.04	41	508347	11.717	ppbv 100
10) Heptane	8.25	43	1389020	10.516	ppbv 100
11) Trichlorofluoromethane	4.00	101	2000061	10.425	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1358564	10.311	ppbv 100
13) Ethanol	3.65	45	117944	7.358	ppbv 100
14) Bromoethene	3.79	108	557006	10.434	ppbv 100
15) Acetone	3.90	43	1250964	9.613	ppbv 100
16) 1,3-Butadiene	3.36	39	606851	10.474	ppbv 100
17) tert-Butyl alcohol	4.36	59	1093552	9.992	ppbv 100
18) 1,1-Dichloroethene	4.35	96	602073	10.529	ppbv 100
19) Isopropyl Alcohol	4.03	45	845597	9.729	ppbv 100
20) Methylene Chloride	4.41	84	505376	9.928	ppbv 100
21) Allyl Chloride	4.48	41	879372	10.791	ppbv 100
22) trans-1,2-Dichloroethene	4.96	96	621140	11.002	ppbv 100
23) Vinyl Acetate	5.16	43	1960319	10.395	ppbv 100
24) 1,1-Dichloroethane	5.09	63	1365981	9.684	ppbv 100
25) Ethyl Acetate	5.77	43	2337431	9.712	ppbv 100
26) Hexane	5.78	57	1032682	10.142	ppbv 100
27) Carbon Disulfide	4.62	76	1497054	11.839	ppbv 100
28) Methyl tert-Butyl Ether	5.11	73	1769182	10.341	ppbv 100
29) Chloroform	5.85	83	1772746	9.519	ppbv 100
30) Cyclohexane	7.25	84	923609	10.699	ppbv 100
31) cis-1,2-Dichloroethene	5.64	61	1063557	10.368	ppbv 100
32) 1,1,1-Trichloroethane	6.62	97	1897936	9.727	ppbv 100
34) 2-Butanone	5.33	43	1546914	9.968	ppbv 100
35) Carbon Tetrachloride	7.13	117	2049786	10.180	ppbv 100
36) Benzene	7.01	78	2254828	10.380	ppbv 100
37) 1,2-Dichloroethane	6.41	62	1392619	9.658	ppbv 100
38) Trichloroethene	7.96	130	902480	10.458	ppbv 100
39) 1,2-Dichloropropane	7.74	63	833013	10.230	ppbv 100
40) 1,4-Dioxane	7.95	88	333534	10.201	ppbv 100
41) Tetrahydrofuran	6.15	42	875806	10.515	ppbv 100
42) Bromodichloromethane	7.92	83	2025629	10.366	ppbv 100
43) Methyl Methacrylate	8.14	69	895810	10.937	ppbv 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3793955	10.051	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1224160	11.582	ppbv	100
46) cis-1,3-Dichloropropene	8.83	75	1416038	11.576	ppbv	100
47) 1,1,2-Trichloroethane	9.61	97	931387	9.674	ppbv	100
48) Dibromochloromethane	10.45	129	1732356	10.713	ppbv	100
49) Bromoform	13.20	173	1554839	11.208	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2506024	10.297	ppbv	100
51) 2-Hexanone	10.27	43	2024738	10.596	ppbv	100
52) Tetrachloroethene	11.37	164	845964	10.281	ppbv	100
53) Toluene	9.95	91	2619860	10.688	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1476593	10.264	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	1170102	9.566	ppbv	97
57) Chlorobenzene	12.30	112	2025762	9.297	ppbv	100
58) Ethyl Benzene	12.86	91	3667317	10.458	ppbv	100
59) m/p-Xylene	13.15	91	6103755m	20.221	ppbv	
60) o-Xylene	13.85	91	3091446	10.167	ppbv	100
61) Styrene	13.69	104	2303005	11.042	ppbv	100
62) Isopropylbenzene	14.82	105	4107924	10.139	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	2131144	9.262	ppbv	100
64) n-propylbenzene	15.72	120	1082216	10.269	ppbv	100
65) tert-Butylbenzene	16.91	119	3805745	10.035	ppbv	100
66) Benzyl Chloride	17.15	91	2080781	11.898	ppbv	100
67) sec-Butylbenzene	17.46	105	5346001	10.053	ppbv	100
69) p-Isopropyltoluene	17.81	119	4522026	10.218	ppbv	100
70) n-Butylbenzene	18.71	91	4823758	10.000	ppbv	100
71) 2-Chlorotoluene	15.61	91	3150076	10.359	ppbv	100
72) 4-Ethyltoluene	16.00	105	3705242	10.647	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	3518371	10.319	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	3684415	9.743	ppbv	100
75) 1,3-Dichlorobenzene	17.16	146	2188201	9.326	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	2182703	9.754	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	2093223	9.581	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	1423377	8.539	ppbv	100
79) Naphthalene	22.41	128	3804750	10.780	ppbv	100
80) Naphthalene, 2-methyl-	25.11	142	1634251	10.912	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	2043730	10.050	ppbv	100

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

