

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL010419\
 Data File : VL033068.D
 Acq On : 4 Jan 2019 13:53
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 12:01:12 AM

Quant Time: Jan 04 14:25:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 0
 QLast Update : Thu Jan 03 19:04:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1195732	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3016034	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2915186	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2230030	10.26	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	2913038	10.925	ppbv	100
3) Chlorodifluoromethane	3.02	51	1817764	12.490	ppbv	100
4) Chloromethane	3.17	50	973203	11.505	ppbv	98
5) Vinyl Chloride	3.29	62	1030307	11.469	ppbv	100
6) Bromomethane	3.52	94	698979	12.783	ppbv	95
7) Chloroethane	3.61	64	405839	13.147	ppbv	96
8) Dichlorotetrafluoroethane	3.22	85	2455668	11.561	ppbv	99
9) Propene	3.04	41	776554	13.750	ppbv	100
10) Heptane	8.25	43	2110588	14.609	ppbv	99
11) Trichlorofluoromethane	4.01	101	2811354	11.986	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1944833	12.268	ppbv	99
13) Ethanol	3.65	45	203899	9.267	ppbv	95
14) Bromoethene	3.79	108	901644	13.355	ppbv	98
15) Acetone	3.90	43	1869605	11.955	ppbv	99
16) 1,3-Butadiene	3.37	39	854712	12.544	ppbv	96
17) tert-Butyl alcohol	4.36	59	443082	12.684	ppbv	99
18) 1,1-Dichloroethene	4.35	96	925633	13.030	ppbv	99
19) Isopropyl Alcohol	4.03	45	1253380	11.997	ppbv #	99
20) Methylene Chloride	4.41	84	799103	11.547	ppbv	97
21) Allyl Chloride	4.48	41	1467529	13.798	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	932419	13.440	ppbv	96
23) Vinyl Acetate	5.16	43	3092733	14.310	ppbv	99
24) 1,1-Dichloroethane	5.10	63	2282799	12.725	ppbv	100
25) Ethyl Acetate	5.78	43	3645860	13.020	ppbv	100
26) Hexane	5.79	57	1689250	12.728	ppbv	99
27) Carbon Disulfide	4.62	76	2328019	14.027	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	2868513	13.796	ppbv	100
29) Chloroform	5.86	83	2812589	12.780	ppbv	99
30) Cyclohexane	7.25	84	1489431	14.940	ppbv	98
31) cis-1,2-Dichloroethene	5.65	61	1783206	14.504	ppbv	99
32) 1,1,1-Trichloroethane	6.63	97	2926884	12.605	ppbv	99
34) 2-Butanone	5.34	43	2396116	13.607	ppbv	100
35) Carbon Tetrachloride	7.14	117	3179921	12.213	ppbv	98
36) Benzene	7.01	78	3463758	13.959	ppbv	99
37) 1,2-Dichloroethane	6.42	62	2178442	12.903	ppbv	100
38) Trichloroethene	7.97	130	1449241	13.983	ppbv	98
39) 1,2-Dichloropropane	7.74	63	1295860	13.921	ppbv	99
40) 1,4-Dioxane	7.96	88	465522	13.175	ppbv	95
41) Tetrahydrofuran	6.15	42	1339528	14.918	ppbv	99
42) Bromodichloromethane	7.93	83	3110932	12.808	ppbv	100
43) Methyl Methacrylate	8.14	69	1423862	15.389	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	5719034	13.017	ppbv	100
45) t-1,3-Dichloropropene	9.43	75	2010218	15.721	ppbv	98
46) cis-1,3-Dichloropropene	8.84	75	2262487	16.276	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	1474739	13.123	ppbv	99
48) Dibromochloromethane	10.46	129	2751659	14.765	ppbv	100
49) Bromoform	13.21	173	2351092	13.686	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	3345400	14.130	ppbv	99
51) 2-Hexanone	10.28	43	2576051	16.105	ppbv #	100
52) Tetrachloroethene	11.38	164	1297220	14.441	ppbv	97
53) Toluene	9.95	91	4131963	16.176	ppbv	100
54) 1,2-Dibromoethane	10.77	107	2340957	14.339	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.29	131	1904693	12.910	ppbv #	71
57) Chlorobenzene	12.31	112	3212372	13.590	ppbv	96
58) Ethyl Benzene	12.87	91	5639544	15.726	ppbv	98
59) m/p-Xylene	13.16	91	9471041m	28.437	ppbv	
60) o-Xylene	13.86	91	4536273	13.933	ppbv	98
61) Styrene	13.70	104	3537245	16.847	ppbv	99
62) Isopropylbenzene	14.84	105	6487147	13.951	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.85	83	3110061	12.204	ppbv	100
64) n-propylbenzene	15.73	120	1679617	14.648	ppbv	95
65) tert-Butylbenzene	16.92	119	5680402	13.724	ppbv	99
66) Benzyl Chloride	17.16	91	3596574	15.459	ppbv	100
67) sec-Butylbenzene	17.47	105	7951641	13.625	ppbv	100
69) p-Isopropyltoluene	17.83	119	6598486	13.976	ppbv	99
70) n-Butylbenzene	18.73	91	6670718	13.845	ppbv	99
71) 2-Chlorotoluene	15.63	91	4833546	14.674	ppbv	100
72) 4-Ethyltoluene	16.01	105	5357081	14.768	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	5041666	14.238	ppbv	97
74) 1,2,4-Trimethylbenzene	16.94	105	5134695	13.202	ppbv	96
75) 1,3-Dichlorobenzene	17.18	146	2889729	12.688	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	2894123	13.969	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	2770370	13.289	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	2122913	14.489	ppbv	100
79) Naphthalene	22.42	128	5205848	14.733	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	2195240	22.404	ppbv	98
81) 1,2,4-Trichlorobenzene	22.15	180	2417005	15.020	ppbv	100

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

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