

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071719\
 Data File : VL034035.D
 Acq On : 17 Jul 2019 15:13
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 7/19/2019 1:37:10 AM

Quant Time: Jul 18 04:50:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 0
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	1238530	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.25	114	3203495	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.20	117	3310756m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.53	95	2451968	8.68	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	86.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	1971197	7.712	ppbv 98
3) Chlorodifluoromethane	2.99	51	1352347	8.842	ppbv 97
4) Chloromethane	3.15	50	807554	9.183	ppbv 99
5) Vinyl Chloride	3.27	62	874738	8.846	ppbv 96
6) Bromomethane	3.49	94	535328	9.180	ppbv 97
7) Chloroethane	3.57	64	330561	9.353	ppbv 99
8) Dichlorotetrafluoroethane	3.20	85	2134552	8.566	ppbv 100
9) Propene	3.01	41	577896	10.271	ppbv 96
10) Heptane	8.21	43	1519994	10.790	ppbv 99
11) Trichlorofluoromethane	3.98	101	2270655	7.901	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.52	101	1608318	7.906	ppbv 98
13) Ethanol	3.62	45	152085	8.701	ppbv 94
14) Bromoethene	3.76	108	719242	9.468	ppbv 98
15) Acetone	3.87	43	1604417	7.705	ppbv 98
16) 1,3-Butadiene	3.34	39	733810	9.980	ppbv 100
17) tert-Butyl alcohol	4.33	59	1584982	9.547	ppbv 100
18) 1,1-Dichloroethene	4.32	96	759951	8.388	ppbv 98
19) Isopropyl Alcohol	4.00	45	1249844	8.942	ppbv 99
20) Methylene Chloride	4.38	84	665101	7.323	ppbv 98
21) Allyl Chloride	4.45	41	1164656	8.970	ppbv 98
22) trans-1,2-Dichloroethene	4.93	96	765420	8.866	ppbv 93
23) Vinyl Acetate	5.12	43	2210160	10.634	ppbv 98
24) 1,1-Dichloroethane	5.06	63	1710051	9.284	ppbv 100
25) Ethyl Acetate	5.73	43	2824360	9.917	ppbv 100
26) Hexane	5.74	57	1283892	9.851	ppbv 99
27) Carbon Disulfide	4.59	76	1980998	8.941	ppbv 100
28) Methyl tert-Butyl Ether	5.08	73	2293209	10.390	ppbv 99
29) Chloroform	5.81	83	2156017	8.802	ppbv 99
30) Cyclohexane	7.21	84	1075483	10.685	ppbv 99
31) cis-1,2-Dichloroethene	5.61	61	1307165	10.381	ppbv 99
32) 1,1,1-Trichloroethane	6.58	97	2120592	8.542	ppbv 98
34) 2-Butanone	5.30	43	1757232	10.365	ppbv 100
35) Carbon Tetrachloride	7.10	117	2217844	8.745	ppbv 97
36) Benzene	6.97	78	2638567	10.526	ppbv 98
37) 1,2-Dichloroethane	6.37	62	1622466	8.786	ppbv 99
38) Trichloroethene	7.92	130	1119487	10.037	ppbv 95
39) 1,2-Dichloropropane	7.70	63	955551	10.252	ppbv 95
40) 1,4-Dioxane	7.92	88	444381m	10.326	ppbv
41) Tetrahydrofuran	6.11	42	931210	11.200	ppbv 99
42) Bromodichloromethane	7.88	83	2333501	9.418	ppbv 100
43) Methyl Methacrylate	8.10	69	1065895	11.207	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.95	57	4430253	10.239	ppbv	99
45) t-1,3-Dichloropropene	9.37	75	1453359	11.686	ppbv	100
46) cis-1,3-Dichloropropene	8.80	75	1637758	11.371	ppbv	96
47) 1,1,2-Trichloroethane	9.57	97	1106670	9.443	ppbv	97
48) Dibromochloromethane	10.41	129	1957947	8.756	ppbv	98
49) Bromoform	13.16	173	1744995	9.134	ppbv	99
50) 4-Methyl-2-Pentanone	8.83	43	2598593	10.329	ppbv	99
51) 2-Hexanone	10.23	43	2100137	10.351	ppbv #	100
52) Tetrachloroethene	11.33	164	1030797	9.555	ppbv	98
53) Toluene	9.90	91	3123514	10.886	ppbv	99
54) 1,2-Dibromoethane	10.71	107	1697693	9.816	ppbv	93
56) 1,1,1,2-Tetrachloroethane	12.23	131	1325715	8.959	ppbv	98
57) Chlorobenzene	12.26	112	2344974	8.896	ppbv	99
58) Ethyl Benzene	12.82	91	4184955	10.512	ppbv	100
59) m/p-Xylene	13.11	91	6881534m	19.089	ppbv	
60) o-Xylene	13.80	91	3386827	9.391	ppbv	98
61) Styrene	13.64	104	2557509	10.716	ppbv	99
62) Isopropylbenzene	14.78	105	4440665	8.010	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.79	83	2282642	8.177	ppbv	99
64) n-propylbenzene	15.68	120	1147224	7.980	ppbv	97
65) tert-Butylbenzene	16.86	119	3989710	8.463	ppbv	100
66) Benzyl Chloride	17.11	91	2212699	9.174	ppbv	99
67) sec-Butylbenzene	17.42	105	5668466	8.566	ppbv	100
69) p-Isopropyltoluene	17.77	119	4760278	8.725	ppbv	100
70) n-Butylbenzene	18.67	91	5011428	8.744	ppbv	99
71) 2-Chlorotoluene	15.57	91	3382172	8.336	ppbv	99
72) 4-Ethyltoluene	15.96	105	3921352	8.467	ppbv	99
73) 1,3,5-Trimethylbenzene	16.11	105	3812630	8.848	ppbv	100
74) 1,2,4-Trimethylbenzene	16.88	105	3917626	8.208	ppbv	96
75) 1,3-Dichlorobenzene	17.12	146	2313963	7.632	ppbv	98
76) 1,4-Dichlorobenzene	17.26	146	2298882	8.051	ppbv	99
77) 1,2-Dichlorobenzene	17.94	146	2250453	8.016	ppbv	98
78) Hexachloro-1,3-Butadiene	23.50	225	1942414	8.131	ppbv	99
79) Naphthalene	22.35	128	4379452	10.914	ppbv	98
80) Naphthalene, 2-methyl-	25.07	142	1097165	7.514	ppbv	99
81) 1,2,4-Trichlorobenzene	22.08	180	2485986	9.647	ppbv	100

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

