

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021920\
 Data File : VL034665.D
 Acq On : 20 Feb 2020 9:49
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 2/21/2020 3:24:37 PM

Quant Time: Feb 20 15:10:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 2020
 QLast Update : Thu Jan 30 17:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	857877	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1771399	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	1982361m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1589971	9.49	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	1433181	7.585	ppbv	94
3) Chlorodifluoromethane	2.95	51	1184597	11.428	ppbv	100
4) Chloromethane	3.10	50	721317	11.373	ppbv	99
5) Vinyl Chloride	3.22	62	690777	11.402	ppbv	97
6) Bromomethane	3.44	94	385976	12.249	ppbv	92
7) Chloroethane	3.52	64	263708	11.705	ppbv	100
8) Dichlorotetrafluoroethane	3.15	85	1692443	11.459	ppbv	100
9) Propene	2.97	41	445301	11.033	ppbv	98
10) Heptane	8.13	43	1199341	11.808	ppbv	97
11) Trichlorofluoromethane	3.92	101	2047750	11.930	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1375491	12.282	ppbv	98
13) Ethanol	3.57	45	117756	10.892	ppbv	97
14) Bromoethene	3.71	108	537196	12.228	ppbv	98
15) Acetone	3.82	43	1406316	11.154	ppbv	99
16) 1,3-Butadiene	3.29	39	612683	12.237	ppbv	98
17) tert-Butyl alcohol	4.27	59	1314303	14.175	ppbv	98
18) 1,1-Dichloroethene	4.26	96	600617	12.705	ppbv	98
19) Isopropyl Alcohol	3.94	45	1020267	13.867	ppbv #	98
20) Methylene Chloride	4.32	84	519793	10.827	ppbv	96
21) Allyl Chloride	4.38	41	981975	12.541	ppbv	98
22) trans-1,2-Dichloroethene	4.86	96	621135	12.545	ppbv	91
23) Vinyl Acetate	5.06	43	1659876	11.539	ppbv	99
24) 1,1-Dichloroethane	4.99	63	1384960	11.532	ppbv	100
25) Ethyl Acetate	5.66	43	2307120	11.303	ppbv	99
26) Hexane	5.67	57	983385	11.502	ppbv	99
27) Carbon Disulfide	4.53	76	1567913	13.591	ppbv	99
28) Methyl tert-Butyl Ether	5.01	73	1703257	11.681	ppbv	100
29) Chloroform	5.74	83	1722718	11.395	ppbv	99
30) Cyclohexane	7.13	84	788828	12.451	ppbv	96
31) cis-1,2-Dichloroethene	5.54	61	1054306	11.869	ppbv	96
32) 1,1,1-Trichloroethane	6.51	97	1806602	11.129	ppbv	100
34) 2-Butanone	5.23	43	1425474	11.083	ppbv	99
35) Carbon Tetrachloride	7.02	117	1997191	11.793	ppbv	95
36) Benzene	6.89	78	1864489	11.836	ppbv	98
37) 1,2-Dichloroethane	6.30	62	1528104	11.627	ppbv	99
38) Trichloroethene	7.84	130	824165	12.412	ppbv	97
39) 1,2-Dichloropropane	7.62	63	745557	11.417	ppbv	98
40) 1,4-Dioxane	7.83	88	314205	12.517	ppbv	87
41) Tetrahydrofuran	6.04	42	773985	11.535	ppbv	98
42) Bromodichloromethane	7.80	83	1919457	11.866	ppbv	98
43) Methyl Methacrylate	8.01	69	794562	12.541	ppbv	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	3339396	11.684	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	1119879	13.498	ppbv	99
46) cis-1,3-Dichloropropene	8.72	75	1258734	13.349	ppbv	97
47) 1,1,2-Trichloroethane	9.49	97	832257	11.767	ppbv	94
48) Dibromochloromethane	10.32	129	1616906	12.475	ppbv	99
49) Bromoform	13.07	173	1445592	12.704	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	2148334	11.713	ppbv	99
51) 2-Hexanone	10.14	43	1762708	12.208	ppbv #	100
52) Tetrachloroethene	11.24	164	745107	11.774	ppbv	98
53) Toluene	9.82	91	2194462	12.681	ppbv	100
54) 1,2-Dibromoethane	10.63	107	1257953	11.868	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.15	131	1082567	11.061	ppbv	97
57) Chlorobenzene	12.17	112	1791448	10.982	ppbv	98
58) Ethyl Benzene	12.73	91	3069110	11.570	ppbv	97
59) m/p-Xylene	13.02	91	5236584m	22.332	ppbv	
60) o-Xylene	13.72	91	2655121	11.274	ppbv	99
61) Styrene	13.55	104	1906518	12.142	ppbv	99
62) Isopropylbenzene	14.70	105	3421067	11.210	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.71	83	1843942	10.124	ppbv	100
64) n-propylbenzene	15.59	120	870117	11.082	ppbv	89
65) tert-Butylbenzene	16.77	119	3143075	11.368	ppbv	100
66) Benzyl Chloride	17.02	91	1503133	12.966	ppbv	99
67) sec-Butylbenzene	17.33	105	4242804	11.166	ppbv	100
69) p-Isopropyltoluene	17.69	119	3579562	11.602	ppbv	100
70) n-Butylbenzene	18.58	91	3728539	11.385	ppbv	99
71) 2-Chlorotoluene	15.48	91	2609467	11.265	ppbv	99
72) 4-Ethyltoluene	15.87	105	2963343	11.455	ppbv	99
73) 1,3,5-Trimethylbenzene	16.03	105	2886234	11.418	ppbv	96
74) 1,2,4-Trimethylbenzene	16.79	105	3059069	10.932	ppbv #	90
75) 1,3-Dichlorobenzene	17.03	146	1709940	10.613	ppbv	100
76) 1,4-Dichlorobenzene	17.18	146	1709108	10.763	ppbv	100
77) 1,2-Dichlorobenzene	17.85	146	1624472	10.495	ppbv	99
78) Hexachloro-1,3-Butadiene	23.41	225	1540116	10.405	ppbv	99
79) Naphthalene	22.25	128	2613777	11.865	ppbv	99
80) Naphthalene, 2-methyl-	25.01	142	1404840	16.576	ppbv	99
81) 1,2,4-Trichlorobenzene	21.98	180	1596172	11.753	ppbv	99

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

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