

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL010220\
 Data File : VL034555.D
 Acq On : 2 Jan 2020 21:38
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

apatel
 1/3/2020 11:37:58 AM

Quant Time: Jan 03 05:57:44 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 30

QLast Update : Mon Dec 30 14:58:50 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1022794	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2013016	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2053318m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1744569	10.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.02	85	1223273	7.584	ppbv 98
3) Chlorodifluoromethane	2.95	51	1134415	9.309	ppbv 99
4) Chloromethane	3.11	50	604386	8.350	ppbv 94
5) Vinyl Chloride	3.22	62	601283	8.483	ppbv 100
6) Bromomethane	3.44	94	350691	9.939	ppbv 98
7) Chloroethane	3.53	64	224426	9.086	ppbv 97
8) Dichlorotetrafluoroethane	3.15	85	1456903	9.006	ppbv 98
9) Propene	2.97	41	416195	8.858	ppbv 99
10) Heptane	8.14	43	1163537	9.590	ppbv 100
11) Trichlorofluoromethane	3.93	101	1744975	9.349	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1167270	9.832	ppbv 97
13) Ethanol	3.58	45	118484	9.089	ppbv 97
14) Bromoethene	3.71	108	453582	9.446	ppbv 99
15) Acetone	3.83	43	1227875	8.226	ppbv 100
16) 1,3-Butadiene	3.29	39	541897	9.439	ppbv 99
17) tert-Butyl alcohol	4.27	59	1222839	10.231	ppbv 100
18) 1,1-Dichloroethene	4.27	96	501784	9.703	ppbv 98
19) Isopropyl Alcohol	3.95	45	983417	10.177	ppbv # 99
20) Methylene Chloride	4.33	84	454049	7.731	ppbv 99
21) Allyl Chloride	4.39	41	827491	9.645	ppbv 99
22) trans-1,2-Dichloroethene	4.87	96	505625	9.612	ppbv 95
23) Vinyl Acetate	5.07	43	1651952	9.586	ppbv 98
24) 1,1-Dichloroethane	5.00	63	1247073	9.008	ppbv 98
25) Ethyl Acetate	5.67	43	2060797	8.841	ppbv 99
26) Hexane	5.68	57	905851	9.222	ppbv 96
27) Carbon Disulfide	4.53	76	1269857	10.228	ppbv 99
28) Methyl tert-Butyl Ether	5.02	73	1533597	9.348	ppbv 99
29) Chloroform	5.75	83	1549341	9.116	ppbv 97
30) Cyclohexane	7.14	84	706539	9.677	ppbv 99
31) cis-1,2-Dichloroethene	5.55	61	962083	9.612	ppbv 97
32) 1,1,1-Trichloroethane	6.52	97	1593702	9.034	ppbv 99
34) 2-Butanone	5.24	43	1348931	9.377	ppbv 99
35) Carbon Tetrachloride	7.03	117	1749976	9.586	ppbv 95
36) Benzene	6.90	78	1693675	9.652	ppbv 98
37) 1,2-Dichloroethane	6.32	62	1371671	9.626	ppbv 99
38) Trichloroethene	7.86	130	702093	9.905	ppbv 96
39) 1,2-Dichloropropane	7.63	63	691506	9.584	ppbv 96
40) 1,4-Dioxane	7.84	88	295913	10.133	ppbv # 97
41) Tetrahydrofuran	6.05	42	743298	10.073	ppbv 99
42) Bromodichloromethane	7.82	83	1714231	9.777	ppbv 96
43) Methyl Methacrylate	8.03	69	720495	10.066	ppbv 99

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 QLast Update : Mon Dec 30 14:58:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	3097239	9.542	ppbv	99
45) t-1,3-Dichloropropene	9.31	75	973212	10.555	ppbv	97
46) cis-1,3-Dichloropropene	8.73	75	1081671	10.262	ppbv	98
47) 1,1,2-Trichloroethane	9.51	97	755814	9.502	ppbv	97
48) Dibromochloromethane	10.34	129	1445430	10.483	ppbv	99
49) Bromoform	13.09	173	1287354	10.313	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	2078440	9.953	ppbv	99
51) 2-Hexanone	10.16	43	1694511	10.052	ppbv #	100
52) Tetrachloroethene	11.27	164	649792	9.489	ppbv	94
53) Toluene	9.84	91	1986427	10.304	ppbv	99
54) 1,2-Dibromoethane	10.65	107	1202903	10.392	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.17	131	995154	10.040	ppbv	97
57) Chlorobenzene	12.19	112	1584585	9.354	ppbv	100
58) Ethyl Benzene	12.75	91	2793019	10.086	ppbv	96
59) m/p-Xylene	13.04	91	4758050m	19.649	ppbv	
60) o-Xylene	13.74	91	2436764	10.028	ppbv	98
61) Styrene	13.58	104	1689094	10.167	ppbv	100
62) Isopropylbenzene	14.72	105	3162309	9.949	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.73	83	1755985	9.009	ppbv	99
64) n-propylbenzene	15.61	120	823157	10.142	ppbv	96
65) tert-Butylbenzene	16.80	119	2943793	10.252	ppbv	100
66) Benzyl Chloride	17.05	91	1380526	10.969	ppbv	99
67) sec-Butylbenzene	17.35	105	4028162	9.989	ppbv	99
69) p-Isopropyltoluene	17.71	119	3396409	10.385	ppbv	100
70) n-Butylbenzene	18.61	91	3591289	10.176	ppbv	99
71) 2-Chlorotoluene	15.51	91	2513208	10.182	ppbv	99
72) 4-Ethyltoluene	15.89	105	2748353	10.108	ppbv	99
73) 1,3,5-Trimethylbenzene	16.05	105	2680360	10.048	ppbv	99
74) 1,2,4-Trimethylbenzene	16.82	105	2846205	9.974	ppbv	96
75) 1,3-Dichlorobenzene	17.06	146	1590229	9.304	ppbv	99
76) 1,4-Dichlorobenzene	17.20	146	1580200	9.603	ppbv	100
77) 1,2-Dichlorobenzene	17.88	146	1557369	9.695	ppbv	99
78) Hexachloro-1,3-Butadiene	23.44	225	1287360	8.443	ppbv	100
79) Naphthalene	22.28	128	2271517	10.568	ppbv	98
80) Naphthalene, 2-methyl-	25.03	142	606295	10.183	ppbv #	93
81) 1,2,4-Trichlorobenzene	22.01	180	1329792	9.502	ppbv	99

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

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