

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082020\
 Data File : VL035470.D
 Acq On : 20 Aug 2020 9:00
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 8/21/2020 11:24:02 AM

Quant Time: Aug 21 06:12:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 1
 QLast Update : Mon Aug 17 19:28:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1085115	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	5060434	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	5573793	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	3586656	9.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.90%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	1776711	8.834	ppbv 99
3) Chlorodifluoromethane	2.98	51	1346625	9.898	ppbv # 91
4) Chloromethane	3.13	50	708721	9.999	ppbv 96
5) Vinyl Chloride	3.25	62	861050	10.165	ppbv 93
6) Bromomethane	3.47	94	777189	10.491	ppbv 99
7) Chloroethane	3.55	64	325856	10.442	ppbv 94
8) Dichlorotetrafluoroethane	3.18	85	2453203	9.526	ppbv # 61
9) Propene	3.00	41	526408	9.626	ppbv 99
10) Heptane	8.13	43	1422354	9.920	ppbv # 78
11) Trichlorofluoromethane	3.95	101	3026761	9.591	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.48	101	2295923	9.763	ppbv # 83
13) Ethanol	3.60	45	145628	7.268	ppbv 100
14) Bromoethene	3.74	108	1080747	10.399	ppbv # 94
15) Acetone	3.85	43	1137461	9.107	ppbv # 82
16) 1,3-Butadiene	3.32	39	522350	10.313	ppbv # 67
17) tert-Butyl alcohol	4.29	59	1740230	10.780	ppbv 98
18) 1,1-Dichloroethene	4.29	96	1073248	10.336	ppbv # 60
19) Isopropyl Alcohol	3.97	45	874585	10.160	ppbv # 98
20) Methylene Chloride	4.34	84	899965	8.931	ppbv # 64
21) Allyl Chloride	4.41	41	690506	10.880	ppbv # 81
22) trans-1,2-Dichloroethene	4.88	96	1139448	10.283	ppbv # 65
23) Vinyl Acetate	5.08	43	1827718	10.237	ppbv # 93
24) 1,1-Dichloroethane	5.01	63	1795258	10.075	ppbv # 93
25) Ethyl Acetate	5.68	43	2332362	9.597	ppbv # 92
26) Hexane	5.69	57	1338447	9.759	ppbv # 74
27) Carbon Disulfide	4.55	76	2219747	11.196	ppbv # 85
28) Methyl tert-Butyl Ether	5.03	73	2560631	10.220	ppbv 91
29) Chloroform	5.75	83	2771578	10.058	ppbv 96
30) Cyclohexane	7.13	84	1583811	10.408	ppbv # 60
31) cis-1,2-Dichloroethene	5.55	61	1477808	10.245	ppbv # 62
32) 1,1,1-Trichloroethane	6.52	97	2846351	11.021	ppbv # 89
34) 2-Butanone	5.25	43	1623240	9.601	ppbv # 71
35) Carbon Tetrachloride	7.02	117	3022215	11.229	ppbv 99
36) Benzene	6.90	78	3615250	9.734	ppbv # 94
37) 1,2-Dichloroethane	6.31	62	1698578	10.007	ppbv # 89
38) Trichloroethene	7.84	130	1975358	9.561	ppbv # 84
39) 1,2-Dichloropropane	7.62	63	1196299	9.773	ppbv # 85
40) 1,4-Dioxane	7.83	88	655842	9.836	ppbv # 21
41) Tetrahydrofuran	6.05	42	935828	10.034	ppbv # 58
42) Bromodichloromethane	7.80	83	2968387	10.451	ppbv # 98
43) Methyl Methacrylate	8.02	69	1504434	10.358	ppbv # 57

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.88	57	4511523	9.302	ppbv #	92
45) t-1,3-Dichloropropene	9.29	75	1779877	11.897	ppbv	96
46) cis-1,3-Dichloropropene	8.71	75	2080301	11.162	ppbv #	74
47) 1,1,2-Trichloroethane	9.49	97	1814123	9.922	ppbv	92
48) Dibromochloromethane	10.32	129	3241002	10.567	ppbv	99
49) Bromoform	13.06	173	3184639	10.778	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	2391767	9.862	ppbv #	80
51) 2-Hexanone	10.14	43	2054313	10.049	ppbv #	77
52) Tetrachloroethene	11.24	164	2117417	9.346	ppbv #	85
53) Toluene	9.82	91	4646445	9.713	ppbv	98
54) 1,2-Dibromoethane	10.62	107	2943141	9.911	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.14	131	2541723	9.613	ppbv	98
57) Chlorobenzene	12.16	112	4057196	8.720	ppbv #	81
58) Ethyl Benzene	12.73	91	6023655	8.952	ppbv #	82
59) m/p-Xylene	13.01	91	9705780m	17.064	ppbv	
60) o-Xylene	13.71	91	4937670	8.932	ppbv	86
61) Styrene	13.55	104	4199367	9.402	ppbv #	90
62) Isopropylbenzene	14.69	105	7620801	8.412	ppbv #	86
63) 1,1,2,2-Tetrachloroethane	13.70	83	3463948	8.723	ppbv	97
64) n-propylbenzene	15.58	120	2551517	9.137	ppbv #	45
65) tert-Butylbenzene	16.77	119	7349957	8.348	ppbv #	83
66) Benzyl Chloride	17.01	91	2707505	12.785	ppbv #	88
67) sec-Butylbenzene	17.32	105	9342451	8.063	ppbv #	83
69) p-Isopropyltoluene	17.68	119	8465043	8.234	ppbv #	89
70) n-Butylbenzene	18.57	91	8064724	8.304	ppbv #	89
71) 2-Chlorotoluene	15.47	91	5851222	8.901	ppbv	77
72) 4-Ethyltoluene	15.86	105	6436427	8.872	ppbv #	91
73) 1,3,5-Trimethylbenzene	16.02	105	5961497	8.832	ppbv #	81
74) 1,2,4-Trimethylbenzene	16.79	105	6164341	8.405	ppbv #	92
75) 1,3-Dichlorobenzene	17.02	146	4677378	8.257	ppbv	92
76) 1,4-Dichlorobenzene	17.16	146	4801351	8.600	ppbv	92
77) 1,2-Dichlorobenzene	17.84	146	4694314	8.460	ppbv	91
78) Hexachloro-1,3-Butadiene	23.40	225	3404368	7.760	ppbv	98
79) Naphthalene	22.23	128	8872598	8.590	ppbv	97
80) Naphthalene, 2-methyl-	24.99	142	4345936	10.182	ppbv #	93
81) 1,2,4-Trichlorobenzene	21.96	180	5238951	8.414	ppbv	99

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

