

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082020\
 Data File : VL035489.D
 Acq On : 21 Aug 2020 8:07
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 8/21/2020 11:24:57 AM

Quant Time: Aug 21 09:07:27 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	1040770	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4837642	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	5166967m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	3407448	9.42	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	1815015	9.409	ppbv	99
3) Chlorodifluoromethane	2.98	51	1439391	11.030	ppbv	92
4) Chloromethane	3.14	50	782140	11.505	ppbv	98
5) Vinyl Chloride	3.25	62	940988	11.582	ppbv	94
6) Bromomethane	3.47	94	838002	11.793	ppbv	99
7) Chloroethane	3.56	64	356215	11.901	ppbv	94
8) Dichlorotetrafluoroethane	3.19	85	2614472	10.585	ppbv #	66
9) Propene	3.01	41	572135	10.908	ppbv	100
10) Heptane	8.14	43	1509467	10.976	ppbv #	78
11) Trichlorofluoromethane	3.95	101	3068431	10.138	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.49	101	2360329	10.465	ppbv	87
13) Ethanol	3.61	45	152214	7.921	ppbv	100
14) Bromoethene	3.74	108	1139427	11.431	ppbv #	95
15) Acetone	3.85	43	1204999	10.059	ppbv #	81
16) 1,3-Butadiene	3.32	39	561532	11.559	ppbv #	64
17) tert-Butyl alcohol	4.29	59	1909582	12.333	ppbv	98
18) 1,1-Dichloroethene	4.29	96	1128154	11.328	ppbv #	61
19) Isopropyl Alcohol	3.97	45	972061	11.773	ppbv #	98
20) Methylene Chloride	4.35	84	919673	9.515	ppbv #	64
21) Allyl Chloride	4.41	41	753657	12.381	ppbv #	83
22) trans-1,2-Dichloroethene	4.89	96	1173523	11.042	ppbv #	65
23) Vinyl Acetate	5.08	43	1963856	11.468	ppbv #	93
24) 1,1-Dichloroethane	5.02	63	1917466	11.220	ppbv #	93
25) Ethyl Acetate	5.68	43	2503193	10.738	ppbv #	92
26) Hexane	5.69	57	1436812	10.922	ppbv #	74
27) Carbon Disulfide	4.55	76	2341396	12.313	ppbv #	85
28) Methyl tert-Butyl Ether	5.04	73	2769847	11.526	ppbv	92
29) Chloroform	5.76	83	2923084	11.059	ppbv	96
30) Cyclohexane	7.14	84	1695263	11.616	ppbv #	59
31) cis-1,2-Dichloroethene	5.56	61	1578296	11.408	ppbv #	62
32) 1,1,1-Trichloroethane	6.52	97	2970142	11.991	ppbv #	89
34) 2-Butanone	5.25	43	1728830	10.696	ppbv #	70
35) Carbon Tetrachloride	7.03	117	3078729	11.966	ppbv	100
36) Benzene	6.90	78	3843996	10.827	ppbv #	93
37) 1,2-Dichloroethane	6.32	62	1783086	10.989	ppbv #	89
38) Trichloroethene	7.85	130	2073594	10.499	ppbv #	85
39) 1,2-Dichloropropane	7.63	63	1284339	10.975	ppbv #	83
40) 1,4-Dioxane	7.84	88	731632	11.478	ppbv #	14
41) Tetrahydrofuran	6.05	42	991737	11.124	ppbv #	57
42) Bromodichloromethane	7.81	83	3096825	11.405	ppbv #	99
43) Methyl Methacrylate	8.03	69	1606419	11.569	ppbv #	57

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

44) 2,2,4-Trimethylpentane	7.88	57	4756682	10.259	ppbv #	92
45) t-1,3-Dichloropropene	9.29	75	1840691	12.870	ppbv	98
46) cis-1,3-Dichloropropene	8.72	75	2162557	12.137	ppbv #	74
47) 1,1,2-Trichloroethane	9.49	97	1913530	10.948	ppbv	93
48) Dibromochloromethane	10.32	129	3306612	11.277	ppbv	100
49) Bromoform	13.06	173	3190160	11.294	ppbv	99
50) 4-Methyl-2-Pentanone	8.75	43	2510531	10.828	ppbv #	79
51) 2-Hexanone	10.15	43	2155717	11.031	ppbv #	76
52) Tetrachloroethene	11.24	164	2161154	9.979	ppbv #	87
53) Toluene	9.82	91	4892551	10.698	ppbv	97
54) 1,2-Dibromoethane	10.63	107	3073907	10.829	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.15	131	2609871	10.648	ppbv	95
57) Chlorobenzene	12.17	112	4242038	9.836	ppbv #	82
58) Ethyl Benzene	12.73	91	6357073	10.192	ppbv #	80
59) m/p-Xylene	13.02	91	10631882m	20.164	ppbv	
60) o-Xylene	13.72	91	5219317	10.185	ppbv	86
61) Styrene	13.55	104	4449170	10.745	ppbv #	90
62) Isopropylbenzene	14.69	105	7995026	9.519	ppbv #	86
63) 1,1,2,2-Tetrachloroethane	13.70	83	3677266	9.990	ppbv	97
64) n-propylbenzene	15.59	120	2697652	10.421	ppbv #	44
65) tert-Butylbenzene	16.77	119	7705383	9.441	ppbv #	84
66) Benzyl Chloride	17.02	91	2749804	14.007	ppbv #	89
67) sec-Butylbenzene	17.32	105	9798501	9.122	ppbv #	82
69) p-Isopropyltoluene	17.68	119	8907542	9.346	ppbv #	90
70) n-Butylbenzene	18.58	91	8581837	9.533	ppbv #	89
71) 2-Chlorotoluene	15.48	91	6205705	10.183	ppbv	77
72) 4-Ethyltoluene	15.87	105	6793654	10.102	ppbv #	91
73) 1,3,5-Trimethylbenzene	16.02	105	6312568	10.088	ppbv #	81
74) 1,2,4-Trimethylbenzene	16.79	105	6550819	9.635	ppbv #	93
75) 1,3-Dichlorobenzene	17.02	146	4916377	9.362	ppbv	92
76) 1,4-Dichlorobenzene	17.17	146	5033695	9.727	ppbv	92
77) 1,2-Dichlorobenzene	17.85	146	4925988	9.577	ppbv	92
78) Hexachloro-1,3-Butadiene	23.41	225	3379861	8.311	ppbv	98
79) Naphthalene	22.24	128	9214487	9.624	ppbv	95
80) Naphthalene, 2-methyl-	25.00	142	4370176	11.045	ppbv #	93
81) 1,2,4-Trichlorobenzene	21.97	180	5385692	9.331	ppbv	99

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

