

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081720\
 Data File : VL035422.D
 Acq On : 17 Aug 2020 15:30
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

MMDadoda
 8/20/2020 11:05:40 AM

Quant Time: Aug 17 16:37:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 17 2020
 QLast Update : Mon Aug 17 09:05:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1147566	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	5148183m	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	5235106	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	3668232	8.27	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	82.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	241498	1.585	ppbv	97
3) Chlorodifluoromethane	2.99	51	153773	1.046	ppbv	93
4) Chloromethane	3.14	50	80695	1.042	ppbv	95
5) Vinyl Chloride	3.26	62	92971	1.181	ppbv	94
6) Bromomethane	3.48	94	83380	1.932	ppbv	100
7) Chloroethane	3.56	64	34279	1.313	ppbv	96
8) Dichlorotetrafluoroethane	3.19	85	307426	1.770	ppbv #	57
9) Propene	3.01	41	63144	0.905	ppbv	99
10) Heptane	8.14	43	163621	0.928	ppbv #	82
11) Trichlorofluoromethane	3.96	101	363714	1.989	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.49	101	270625	2.272	ppbv #	77
13) Ethanol	3.62	45	27170	1.219	ppbv	98
14) Bromoethene	3.74	108	116850	2.236	ppbv #	94
15) Acetone	3.86	43	147515	0.977	ppbv #	78
16) 1,3-Butadiene	3.33	39	58521	0.846	ppbv #	74
17) tert-Butyl alcohol	4.30	59	185997	1.298	ppbv	99
18) 1,1-Dichloroethene	4.30	96	115808	2.164	ppbv #	63
19) Isopropyl Alcohol	3.98	45	101842	0.956	ppbv #	95
20) Methylene Chloride	4.35	84	119582	2.135	ppbv #	63
21) Allyl Chloride	4.42	41	69358	0.786	ppbv #	80
22) trans-1,2-Dichloroethene	4.90	96	124424	2.334	ppbv #	62
23) Vinyl Acetate	5.09	43	195708	0.884	ppbv #	93
24) 1,1-Dichloroethane	5.02	63	202611	1.284	ppbv	95
25) Ethyl Acetate	5.69	43	283118	0.936	ppbv #	94
26) Hexane	5.70	57	160847	1.224	ppbv #	75
27) Carbon Disulfide	4.56	76	209899	1.641	ppbv #	87
28) Methyl tert-Butyl Ether	5.05	73	283629	1.399	ppbv	91
29) Chloroform	5.76	83	318794	1.580	ppbv	100
30) Cyclohexane	7.15	84	168851	1.618	ppbv #	59
31) cis-1,2-Dichloroethene	5.56	61	162782	1.216	ppbv #	71
32) 1,1,1-Trichloroethane	6.53	97	294640	1.465	ppbv #	90
34) 2-Butanone	5.26	43	190573	0.480	ppbv #	78
35) Carbon Tetrachloride	7.04	117	310337	0.811	ppbv	98
36) Benzene	6.91	78	417261	0.799	ppbv #	90
37) 1,2-Dichloroethane	6.32	62	186403	0.579	ppbv #	88
38) Trichloroethene	7.85	130	230031	1.139	ppbv #	81
39) 1,2-Dichloropropane	7.63	63	137150	0.651	ppbv #	81
40) 1,4-Dioxane	7.88	88	79054m	0.970	ppbv	
41) Tetrahydrofuran	6.08	42	98468	0.441	ppbv #	63
42) Bromodichloromethane	7.81	83	306735	0.744	ppbv #	96
43) Methyl Methacrylate	8.04	69	156496	0.688	ppbv #	59

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

44) 2,2,4-Trimethylpentane	7.89	57	562371	0.616	ppbv #	91
45) t-1,3-Dichloropropene	9.30	75	147192	0.616	ppbv	97
46) cis-1,3-Dichloropropene	8.72	75	192818	0.667	ppbv #	77
47) 1,1,2-Trichloroethane	9.50	97	200072	0.945	ppbv	93
48) Dibromochloromethane	10.33	129	321735	1.043	ppbv	98
49) Bromoform	13.07	173	299775	1.237	ppbv	99
50) 4-Methyl-2-Pentanone	8.77	43	269925	0.470	ppbv #	85
51) 2-Hexanone	10.17	43	223510	0.458	ppbv #	80
52) Tetrachloroethene	11.25	164	249740	1.344	ppbv #	84
53) Toluene	9.83	91	543556	0.914	ppbv	97
54) 1,2-Dibromoethane	10.64	107	330732	1.012	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.15	131	269950	1.048	ppbv #	1
57) Chlorobenzene	12.17	112	503032	1.064	ppbv #	77
58) Ethyl Benzene	12.74	91	723109	0.834	ppbv	95
59) m/p-Xylene	13.02	91	1226336m	1.696	ppbv	
60) o-Xylene	13.72	91	596358	0.838	ppbv	89
61) Styrene	13.56	104	466055	0.959	ppbv #	86
62) Isopropylbenzene	14.70	105	1001253	0.953	ppbv	94
63) 1,1,2,2-Tetrachloroethane	13.70	83	428358	0.776	ppbv	99
64) n-propylbenzene	15.59	120	288946	1.085	ppbv	70
65) tert-Butylbenzene	16.78	119	976269	1.085	ppbv #	78
66) Benzyl Chloride	17.03	91	168899	0.573	ppbv #	91
67) sec-Butylbenzene	17.33	105	1316160	0.991	ppbv	92
69) p-Isopropyltoluene	17.69	119	1151228	1.064	ppbv #	88
70) n-Butylbenzene	18.59	91	1085243	0.858	ppbv #	94
71) 2-Chlorotoluene	15.48	91	703913	0.819	ppbv	82
72) 4-Ethyltoluene	15.87	105	785927	0.943	ppbv #	92
73) 1,3,5-Trimethylbenzene	16.03	105	735560	0.935	ppbv #	85
74) 1,2,4-Trimethylbenzene	16.80	105	810568	0.962	ppbv #	90
75) 1,3-Dichlorobenzene	17.03	146	618420	1.348	ppbv	92
76) 1,4-Dichlorobenzene	17.17	146	599934	1.275	ppbv	90
77) 1,2-Dichlorobenzene	17.85	146	602374	1.303	ppbv	91
78) Hexachloro-1,3-Butadiene	23.42	225	482274	1.358	ppbv	100
79) Naphthalene	22.25	128	1126851	1.145	ppbv	97
80) Naphthalene, 2-methyl-	25.01	142	405637	0.988	ppbv #	90
81) 1,2,4-Trichlorobenzene	21.98	180	673091	1.443	ppbv	100

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

