

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090820\
 Data File : VL035553.D
 Acq On : 8 Sep 2020 11:57
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010

Manual Integrations
 APPROVED

sam
 9/14/2020 3:54:37 PM

Quant Time: Sep 09 02:44:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 27 2020
 QLast Update : Thu Aug 27 06:46:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1088865	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.18	114	4800934	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	4802255m	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	3555273	10.43	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	1637479	8.678	ppbv	98
3) Chlorodifluoromethane	2.98	51	1199940	9.964	ppbv	99
4) Chloromethane	3.13	50	631639	9.790	ppbv	98
5) Vinyl Chloride	3.25	62	760657	9.563	ppbv	99
6) Bromomethane	3.46	94	673794	10.085	ppbv	99
7) Chloroethane	3.55	64	287512	10.223	ppbv	98
8) Dichlorotetrafluoroethane	3.18	85	2182891	9.552	ppbv	97
9) Propene	3.00	41	459139	9.890	ppbv	100
10) Heptane	8.12	43	1265710	10.150	ppbv	99
11) Trichlorofluoromethane	3.94	101	2599630	9.447	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1988747	9.575	ppbv	96
13) Ethanol	3.60	45	110240	9.577	ppbv	96
14) Bromoethene	3.73	108	933834	10.446	ppbv	100
15) Acetone	3.84	43	1025133	8.536	ppbv	100
16) 1,3-Butadiene	3.32	39	459088	10.269	ppbv	98
17) tert-Butyl alcohol	4.29	59	1593852	10.903	ppbv	99
18) 1,1-Dichloroethene	4.28	96	937744	10.253	ppbv	97
19) Isopropyl Alcohol	3.96	45	758394	10.586	ppbv	99
20) Methylene Chloride	4.34	84	833947	9.324	ppbv	99
21) Allyl Chloride	4.40	41	616144	10.951	ppbv	98
22) trans-1,2-Dichloroethene	4.88	96	980297	10.068	ppbv	95
23) Vinyl Acetate	5.07	43	1634322	10.603	ppbv	99
24) 1,1-Dichloroethane	5.01	63	1595093	10.056	ppbv	100
25) Ethyl Acetate	5.67	43	2083335	9.820	ppbv	100
26) Hexane	5.68	57	1213703	10.097	ppbv	98
27) Carbon Disulfide	4.54	76	2002589	11.609	ppbv	99
28) Methyl tert-Butyl Ether	5.03	73	2244805	10.715	ppbv	100
29) Chloroform	5.75	83	2457121	10.032	ppbv	99
30) Cyclohexane	7.13	84	1381681	10.729	ppbv	99
31) cis-1,2-Dichloroethene	5.55	61	1310494	10.626	ppbv	97
32) 1,1,1-Trichloroethane	6.51	97	2473941	10.412	ppbv	100
34) 2-Butanone	5.24	43	1437768	10.091	ppbv	98
35) Carbon Tetrachloride	7.02	117	2575620	10.674	ppbv	99
36) Benzene	6.89	78	3184796	10.248	ppbv	100
37) 1,2-Dichloroethane	6.30	62	1503450	10.147	ppbv	100
38) Trichloroethene	7.83	130	1667009	9.235	ppbv	97
39) 1,2-Dichloropropane	7.62	63	1067138	10.165	ppbv	99
40) 1,4-Dioxane	7.83	88	559071	10.660	ppbv	# 1
41) Tetrahydrofuran	6.04	42	822461	10.886	ppbv	98
42) Bromodichloromethane	7.79	83	2626033	10.960	ppbv	99
43) Methyl Methacrylate	8.01	69	1320555	10.989	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	4036725	9.872	ppbv	100
45) t-1,3-Dichloropropene	9.28	75	1517276	12.464	ppbv	100
46) cis-1,3-Dichloropropene	8.71	75	1791972	11.856	ppbv	99
47) 1,1,2-Trichloroethane	9.48	97	1580342	10.202	ppbv	98
48) Dibromochloromethane	10.31	129	2740220	11.239	ppbv	100
49) Bromoform	13.05	173	2574135	11.650	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	2149748	10.420	ppbv	99
51) 2-Hexanone	10.14	43	1861107	10.997	ppbv	99
52) Tetrachloroethene	11.23	164	1704965	9.391	ppbv	99
53) Toluene	9.81	91	4051440	10.367	ppbv	99
54) 1,2-Dibromoethane	10.62	107	2523376	10.309	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.14	131	2141510	10.959	ppbv	95
57) Chlorobenzene	12.16	112	3470689	9.820	ppbv	99
58) Ethyl Benzene	12.72	91	5271564	10.645	ppbv	100
59) m/p-Xylene	13.00	91	8472844m	20.476	ppbv	
60) o-Xylene	13.70	91	4325159	10.378	ppbv	100
61) Styrene	13.54	104	3575014	11.216	ppbv	99
62) Isopropylbenzene	14.68	105	6690677	9.994	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.69	83	3105583	9.611	ppbv	99
64) n-propylbenzene	15.58	120	2152783	10.537	ppbv	99
65) tert-Butylbenzene	16.76	119	6334186	10.178	ppbv	99
66) Benzyl Chloride	17.00	91	2212771	14.307	ppbv	99
67) sec-Butylbenzene	17.31	105	8233149	9.930	ppbv	99
69) p-Isopropyltoluene	17.67	119	7240010	9.955	ppbv	100
70) n-Butylbenzene	18.56	91	7044994	10.056	ppbv	99
71) 2-Chlorotoluene	15.46	91	5102364	10.466	ppbv	100
72) 4-Ethyltoluene	15.85	105	5522064	10.422	ppbv	100
73) 1,3,5-Trimethylbenzene	16.01	105	5130052	10.468	ppbv	98
74) 1,2,4-Trimethylbenzene	16.78	105	5347989	9.937	ppbv	98
75) 1,3-Dichlorobenzene	17.01	146	3863014	9.691	ppbv	99
76) 1,4-Dichlorobenzene	17.15	146	3939256	10.020	ppbv	100
77) 1,2-Dichlorobenzene	17.83	146	3821603	9.895	ppbv	99
78) Hexachloro-1,3-Butadiene	23.40	225	2446956	9.924	ppbv	100
79) Naphthalene	22.22	128	6588186	11.033	ppbv	99
80) Naphthalene, 2-methyl-	24.99	142	2666020	13.081	ppbv	99
81) 1,2,4-Trichlorobenzene	21.95	180	3753094	10.495	ppbv	100

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

