

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL022621\
 Data File : VL036396.D
 Acq On : 26 Feb 2021 9:48
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 3/1/2021 10:08:18 AM

Quant Time: Feb 27 03:23:19 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 16:04:02 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1505402	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.14	114	3479428	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.05	117	3458432m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.38	95	2704245	9.50	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	2169645	9.657	ppbv	99
3) Chlorodifluoromethane	2.97	51	1937691	10.359	ppbv	100
4) Chloromethane	3.11	50	970852	10.744	ppbv	98
5) Vinyl Chloride	3.23	62	948114	11.267	ppbv	96
6) Bromomethane	3.45	94	562684	11.250	ppbv	98
7) Chloroethane	3.53	64	341436	11.428	ppbv	98
8) Dichlorotetrafluoroethane	3.16	85	2202091	10.777	ppbv	99
9) Propene	2.99	41	901552	12.928	ppbv	99
10) Heptane	8.09	43	2307667	11.228	ppbv	99
11) Trichlorofluoromethane	3.92	101	2346298	10.665	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1512094	11.096	ppbv	99
13) Ethanol	3.58	45	125147	9.554	ppbv	98
14) Bromoethene	3.71	108	625729	10.971	ppbv	99
15) Acetone	3.83	43	1816458	9.871	ppbv	99
16) 1,3-Butadiene	3.30	39	936044	10.638	ppbv	99
17) tert-Butyl alcohol	4.27	59	1499780	10.499	ppbv	100
18) 1,1-Dichloroethene	4.26	96	653213	10.547	ppbv	97
19) Isopropyl Alcohol	3.94	45	965722	9.473	ppbv #	97
20) Methylene Chloride	4.32	84	562027	9.467	ppbv	97
21) Allyl Chloride	4.38	41	1119671	10.929	ppbv	97
22) trans-1,2-Dichloroethene	4.85	96	632358	11.241	ppbv	95
23) Vinyl Acetate	5.05	43	2336796	10.800	ppbv	98
24) 1,1-Dichloroethane	4.98	63	1745902	10.911	ppbv	99
25) Ethyl Acetate	5.65	43	3848872	10.834	ppbv	99
26) Hexane	5.66	57	1588575	10.883	ppbv	98
27) Carbon Disulfide	4.52	76	1643966	12.255	ppbv	97
28) Methyl tert-Butyl Ether	5.01	73	2116316	11.099	ppbv	100
29) Chloroform	5.73	83	2464186	10.479	ppbv	94
30) Cyclohexane	7.10	84	1292035	10.644	ppbv	98
31) cis-1,2-Dichloroethene	5.52	61	1566907	10.849	ppbv	96
32) 1,1,1-Trichloroethane	6.48	97	2424762	11.029	ppbv	99
34) 2-Butanone	5.22	43	2409920	10.424	ppbv	100
35) Carbon Tetrachloride	6.99	117	2481793	10.643	ppbv	98
36) Benzene	6.86	78	3256106	11.017	ppbv	97
37) 1,2-Dichloroethane	6.28	62	1938496	10.608	ppbv	100
38) Trichloroethene	7.80	130	1131496	10.686	ppbv	95
39) 1,2-Dichloropropane	7.58	63	1307331	10.889	ppbv	99
40) 1,4-Dioxane	7.80	88	401524	9.652	ppbv #	23
41) Tetrahydrofuran	6.02	42	1436860	11.138	ppbv	99
42) Bromodichloromethane	7.76	83	2659330	10.866	ppbv	96
43) Methyl Methacrylate	7.99	69	1428350	11.459	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.83	57	5552151	10.331	ppbv	99
45) t-1,3-Dichloropropene	9.25	75	1516422	12.611	ppbv	97
46) cis-1,3-Dichloropropene	8.67	75	1859922	12.177	ppbv	96
47) 1,1,2-Trichloroethane	9.45	97	1303691	10.610	ppbv	99
48) Dibromochloromethane	10.27	129	2162967	11.797	ppbv	99
49) Bromoform	13.01	173	1800167	12.145	ppbv	99
50) 4-Methyl-2-Pentanone	8.71	43	3783776	11.025	ppbv	99
51) 2-Hexanone	10.10	43	3077030	11.800	ppbv #	99
52) Tetrachloroethene	11.19	164	1074872	9.934	ppbv	98
53) Toluene	9.77	91	3651143	11.405	ppbv	100
54) 1,2-Dibromoethane	10.58	107	1934526	10.895	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.10	131	1603523	10.080	ppbv #	63
57) Chlorobenzene	12.11	112	2632354	9.851	ppbv	97
58) Ethyl Benzene	12.68	91	4906727	10.361	ppbv	97
59) m/p-Xylene	12.97	91	8288277m	19.925	ppbv	
60) o-Xylene	13.66	91	3922031	9.861	ppbv	100
61) Styrene	13.49	104	2852207	11.571	ppbv	98
62) Isopropylbenzene	14.64	105	5831494	9.782	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.64	83	2880772	9.180	ppbv	99
64) n-propylbenzene	15.53	120	1525475	10.397	ppbv	98
65) tert-Butylbenzene	16.72	119	4985827	9.775	ppbv	98
66) Benzyl Chloride	16.96	91	1845871	13.312	ppbv	99
67) sec-Butylbenzene	17.26	105	7121812	9.682	ppbv	99
69) p-Isopropyltoluene	17.62	119	5827231	10.251	ppbv	99
70) n-Butylbenzene	18.52	91	6139224	10.070	ppbv	100
71) 2-Chlorotoluene	15.42	91	4611588	10.091	ppbv	98
72) 4-Ethyltoluene	15.81	105	4472707	10.105	ppbv	98
73) 1,3,5-Trimethylbenzene	15.97	105	4309908	10.045	ppbv	100
74) 1,2,4-Trimethylbenzene	16.73	105	4374122	9.986	ppbv	97
75) 1,3-Dichlorobenzene	16.97	146	2400556	10.097	ppbv	100
76) 1,4-Dichlorobenzene	17.11	146	2380180	9.641	ppbv	97
77) 1,2-Dichlorobenzene	17.79	146	2349282	9.961	ppbv	99
78) Hexachloro-1,3-Butadiene	23.34	225	1655011	8.589	ppbv	99
79) Naphthalene	22.16	128	3144032	12.109	ppbv	99
80) Naphthalene, 2-methyl-	24.95	142	746147	15.520	ppbv	98
81) 1,2,4-Trichlorobenzene	21.89	180	1625276	10.260	ppbv	99

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

