

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030420\
 Data File : VL034788.D
 Acq On : 4 Mar 2020 14:39
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

apatel
 3/4/2020 4:45:48 PM

Quant Time: Mar 04 15:47:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04
 QLast Update : Wed Mar 04 06:36:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1026012	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.19	114	2139265	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.12	117	2297758m	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.47	95	1870381m	9.76	ppbv	-0.01	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	1134245	6.774	ppbv	99
3) Chlorodifluoromethane	2.95	51	1042991	8.923	ppbv	97
4) Chloromethane	3.11	50	580882	9.226	ppbv	94
5) Vinyl Chloride	3.22	62	611789	9.198	ppbv	98
6) Bromomethane	3.44	94	349098	9.616	ppbv	95
7) Chloroethane	3.53	64	209031	9.089	ppbv	98
8) Dichlorotetrafluoroethane	3.15	85	1304120	8.966	ppbv	98
9) Propene	2.97	41	414218	9.003	ppbv	100
10) Heptane	8.14	43	1300373	11.121	ppbv	98
11) Trichlorofluoromethane	3.93	101	1386392	9.253	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.47	101	941546	9.108	ppbv	100
13) Ethanol	3.58	45	140798m	8.931	ppbv	
14) Bromoethene	3.71	108	407757	9.613	ppbv	97
15) Acetone	3.82	43	1515285	12.333	ppbv	90
16) 1,3-Butadiene	3.29	39	540671	9.726	ppbv	98
17) tert-Butyl alcohol	4.27	59	998340	10.305	ppbv	99
18) 1,1-Dichloroethene	4.27	96	441947	9.693	ppbv	94
19) Isopropyl Alcohol	3.94	45	800403	10.873	ppbv	99
20) Methylene Chloride	4.33	84	385784	8.798	ppbv	92
21) Allyl Chloride	4.39	41	760528	9.775	ppbv	95
22) trans-1,2-Dichloroethene	4.87	96	427687	9.609	ppbv	93
23) Vinyl Acetate	5.07	43	2092276	12.699	ppbv #	95
24) 1,1-Dichloroethane	5.01	63	1181602	9.240	ppbv	98
25) Ethyl Acetate	5.68	43	2363552	11.132	ppbv	96
26) Hexane	5.69	57	1413889	15.244	ppbv #	78
27) Carbon Disulfide	4.53	76	1128931	10.419	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	1285718	9.313	ppbv	100
29) Chloroform	5.75	83	1445278	9.257	ppbv	98
30) Cyclohexane	7.14	84	839503	11.831	ppbv	100
31) cis-1,2-Dichloroethene	5.55	61	963204	10.125	ppbv	99
32) 1,1,1-Trichloroethane	6.52	97	1400498	9.077	ppbv	98
34) 2-Butanone	5.24	43	1317003	9.463	ppbv	99
35) Carbon Tetrachloride	7.03	117	1485186	9.201	ppbv	99
36) Benzene	6.91	78	1972605	10.791	ppbv	98
37) 1,2-Dichloroethane	6.31	62	1206701	9.664	ppbv	100
38) Trichloroethene	7.86	130	679051	9.531	ppbv	97
39) 1,2-Dichloropropane	7.63	63	714922	9.691	ppbv	94
40) 1,4-Dioxane	7.85	88	270275	10.592	ppbv #	100
41) Tetrahydrofuran	6.05	42	718502	10.118	ppbv	100
42) Bromodichloromethane	7.81	83	1595006	10.096	ppbv	99
43) Methyl Methacrylate	8.03	69	839261	10.834	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	3295077	10.315	ppbv	97
45) t-1,3-Dichloropropene	9.31	75	1008097	12.397	ppbv	97
46) cis-1,3-Dichloropropene	8.73	75	1158743	11.669	ppbv	100
47) 1,1,2-Trichloroethane	9.51	97	744638	9.561	ppbv	89
48) Dibromochloromethane	10.34	129	1261030	10.354	ppbv	99
49) Bromoform	13.09	173	1080320	10.165	ppbv	100
50) 4-Methyl-2-Pentanone	8.76	43	2037589	10.218	ppbv	99
51) 2-Hexanone	10.16	43	1681832	10.751	ppbv	100
52) Tetrachloroethene	11.26	164	658019	9.743	ppbv	94
53) Toluene	9.83	91	2141906	11.071	ppbv	99
54) 1,2-Dibromoethane	10.64	107	1142916	9.924	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.17	131	930060	9.135	ppbv #	63
57) Chlorobenzene	12.19	112	1567545	8.931	ppbv	97
58) Ethyl Benzene	12.75	91	2852777	10.075	ppbv	98
59) m/p-Xylene	13.03	91	4679243m	19.090	ppbv	
60) o-Xylene	13.73	91	2296794	9.261	ppbv	99
61) Styrene	13.57	104	1605640	10.436	ppbv	99
62) Isopropylbenzene	14.72	105	3270946	8.961	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.72	83	1603487	8.202	ppbv	99
64) n-propylbenzene	15.61	120	832281	9.094	ppbv	96
65) tert-Butylbenzene	16.80	119	2829460	9.173	ppbv	99
66) Benzyl Chloride	17.04	91	1236187	12.396	ppbv	100
67) sec-Butylbenzene	17.35	105	4077652	9.072	ppbv	99
69) p-Isopropyltoluene	17.70	119	3341333	9.186	ppbv	99
70) n-Butylbenzene	18.60	91	3650606	9.178	ppbv	99
71) 2-Chlorotoluene	15.51	91	2536333	9.200	ppbv	100
72) 4-Ethyltoluene	15.89	105	2636832	9.549	ppbv	99
73) 1,3,5-Trimethylbenzene	16.05	105	2477356	9.353	ppbv	99
74) 1,2,4-Trimethylbenzene	16.82	105	2589094	8.992	ppbv	98
75) 1,3-Dichlorobenzene	17.05	146	1485606	8.716	ppbv	99
76) 1,4-Dichlorobenzene	17.19	146	1478541	9.065	ppbv	100
77) 1,2-Dichlorobenzene	17.88	146	1470762	9.020	ppbv	99
78) Hexachloro-1,3-Butadiene	23.44	225	1291621	9.492	ppbv	98
79) Naphthalene	22.28	128	2569299	11.874	ppbv	99
80) Naphthalene, 2-methyl-	25.03	142	1144779	22.151	ppbv	97
81) 1,2,4-Trichlorobenzene	22.00	180	1470526	10.751	ppbv	99

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

