

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032520\
 Data File : VX015351.D
 Acq On : 25 Mar 2020 20:01
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX032520

Manual Integrations
 APPROVED

apatel
 3/26/2020 11:01:26 AM

Quant Time: Mar 26 02:36:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 26 02:31:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.99	128	197124	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	1089902	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	990955	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	456270	29.62	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.73%
60) 4-Bromofluorobenzene	11.12	95	515002	30.37	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.23%
63) Toluene-d8	8.70	98	1272104	30.21	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	163893	17.410	ug/l 100
3) Chloromethane	1.31	50	208746	17.968	ug/l 98
4) Vinyl Chloride	1.39	62	210000	18.789	ug/l 100
5) Bromomethane	1.63	94	152301	25.597	ug/l 100
6) Chloroethane	1.72	64	130663	18.739	ug/l 94
7) Trichlorofluoromethane	1.92	101	292012	18.282	ug/l 95
8) Diethyl Ether	2.17	74	116552	18.966	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.37	101	199242	18.855	ug/l 99
10) 1,1-Dichloroethene	2.36	96	204207	19.025	ug/l 96
11) Methyl Iodide	2.50	142	246668	17.293	ug/l 97
12) Methyl Acetate	2.75	43	294705	18.764	ug/l 97
13) Acrolein	2.27	56	195167	95.521	ug/l 91
14) Acrylonitrile	3.12	53	650389	96.726	ug/l 99
15) Acetone	2.42	58	159776	93.448	ug/l 92
16) Carbon Disulfide	2.55	76	632343	20.153	ug/l 99
17) Allyl chloride	2.71	41	445734	18.393	ug/l 99
18) Methylene Chloride	2.84	84	225337	18.699	ug/l 99
19) trans-1,2-Dichloroethene	3.14	96	225647	19.434	ug/l 98
20) Diisopropyl ether	3.83	45	813564	18.718	ug/l 99
21) 1,1-Dichloroethane	3.67	63	420255	18.942	ug/l 99
22) cis-1,2-Dichloroethene	4.57	96	254774	19.047	ug/l 99
23) tert-Butyl Alcohol	3.01	59	311013	94.035	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	753778	18.915	ug/l 99
25) Chloroform	5.18	83	413289	18.845	ug/l 97
26) Cyclohexane	5.56	56	396963	18.726	ug/l # 100
29) 1,1-Dichloropropene	5.77	75	321149	19.613	ug/l 100
30) 2-Butanone	4.64	43	950582	96.839	ug/l 99
31) 2,2-Dichloropropane	4.55	77	368917	18.722	ug/l 99
32) 1,1,1-Trichloroethane	5.47	97	380743	19.058	ug/l 99
33) Carbon Tetrachloride	5.76	117	350285	19.240	ug/l 98
34) Benzene	6.12	78	914739	19.383	ug/l 100
35) Methacrylonitrile	5.01	41	216738	19.471	ug/l 94
36) 1,2-Dichloroethane	6.17	62	361366	19.816	ug/l 100
37) Trichloroethene	7.19	130	260737	19.621	ug/l 99
38) Methylcyclohexane	7.44	83	388145	19.336	ug/l 100
39) 1,2-Dichloropropane	7.50	63	243006	19.170	ug/l 96
40) Dibromomethane	7.64	93	161883	19.186	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.88	83	345079	18.819	ug/l	99
42) Vinyl Acetate	3.79	43	3748526	100.785	ug/l	100
43) Ethyl Acetate	4.80	43	380525	17.821	ug/l	99
44) Isopropyl Acetate	6.42	43	658580	19.165	ug/l	100
45) 1,4-Dioxane	7.72	88	125052	395.033	ug/l	99
46) Methyl methacrylate	7.75	41	325000	18.953	ug/l	99
47) n-amyl Acetate	10.88	43	563316	19.012	ug/l	99
48) t-1,3-Dichloropropene	9.03	75	411734	19.450	ug/l	100
49) cis-1,3-Dichloropropene	8.42	75	425166	19.459	ug/l	98
50) 1,1,2-Trichloroethane	9.20	97	231339	19.106	ug/l	99
51) Ethyl methacrylate	9.16	69	396426	19.036	ug/l	98
52) 1,3-Dichloropropane	9.36	76	401600	19.202	ug/l	99
53) Dibromochloromethane	9.57	129	282735	18.942	ug/l	99
54) 1,2-Dibromoethane	9.65	107	251281	19.340	ug/l	99
55) 2-Chloroethyl vinyl ether	8.29	63	937961	95.363	ug/l	100
56) Bromoform	10.84	173	235849	19.217	ug/l	98
58) 4-Methyl-2-Pentanone	8.62	43	1877719	99.007	ug/l	100
59) 2-Hexanone	9.48	43	1426543	98.871	ug/l	99
61) Tetrachloroethene	9.32	164	246498	19.352	ug/l	98
62) Toluene	8.77	91	987361	19.671	ug/l	99
64) Chlorobenzene	10.12	112	629171	19.497	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	251959	19.107	ug/l	98
66) Ethyl Benzene	10.24	91	1128207	19.676	ug/l	99
67) m/p-Xylenes	10.34	106	850155	39.173	ug/l	99
68) o-Xylene	10.68	106	409087	19.285	ug/l	99
69) Styrene	10.70	104	724045	19.591	ug/l	100
70) Isopropylbenzene	11.01	105	1108252	19.707	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.25	83	350819	19.247	ug/l	100
72) 1,2,3-Trichloropropane	11.28	75	327983m	19.231	ug/l	
73) Bromobenzene	11.24	156	292411	19.370	ug/l	98
74) n-propylbenzene	11.34	91	1282727	19.886	ug/l	100
75) 2-Chlorotoluene	11.40	91	768280	19.583	ug/l	98
76) 1,3,5-Trimethylbenzene	11.49	105	944977	19.567	ug/l	100
77) t-1,4-Dichloro-2-butene	11.06	75	138556	18.852	ug/l	97
78) 4-Chlorotoluene	11.49	91	906535	19.974	ug/l	99
79) tert-butylbenzene	11.76	119	937740	19.428	ug/l	100
80) 1,2,4-Trimethylbenzene	11.79	105	951487	19.449	ug/l	100
81) sec-Butylbenzene	11.93	105	1095455	19.785	ug/l	100
82) p-Isopropyltoluene	12.05	119	1038394	19.898	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	532610	19.621	ug/l	99
84) 1,4-Dichlorobenzene	12.08	146	533269	19.686	ug/l	98
85) n-Butylbenzene	12.37	91	931364	20.023	ug/l	100
86) Hexachloroethane	12.58	117	193650	19.200	ug/l	96
87) 1,2-Dichlorobenzene	12.38	146	520331	19.648	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	91934	19.149	ug/l	98
89) 1,2,4-Trichlorobenzene	13.63	180	435453	20.412	ug/l	98
90) Hexachlorobutadiene	13.77	225	231836	20.629	ug/l	99
91) Naphthalene	13.82	128	1248161	20.205	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	419123	19.777	ug/l	99

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

