

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062520\
 Data File : VX016949.D
 Acq On : 25 Jun 2020 13:01
 Operator : JC/SP
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 6/26/2020 3:33:44 PM

Quant Time: Jun 26 08:57:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X062520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jun 26 08:49:19 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.99	128	39098	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	212896	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	197672	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	91814	30.17	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.57%
60) 4-Bromofluorobenzene	11.12	95	96426	29.25	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.50%
63) Toluene-d8	8.70	98	262246	30.10	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.33%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	32818	17.261	ug/l 100
3) Chloromethane	1.32	50	50959	19.765	ug/l 100
4) Vinyl Chloride	1.39	62	50882	19.352	ug/l 100
5) Bromomethane	1.64	94	39316	20.767	ug/l 100
6) Chloroethane	1.72	64	32765	19.322	ug/l 100
7) Trichlorofluoromethane	1.92	101	81438	19.045	ug/l 100
8) Diethyl Ether	2.17	74	29861	19.192	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.37	101	43217	19.043	ug/l 100
10) 1,1-Dichloroethene	2.36	96	43188	19.295	ug/l 100
11) Methyl Iodide	2.50	142	49957	16.716	ug/l 100
12) Methyl Acetate	2.75	43	54314	19.238	ug/l 100
13) Acrolein	2.27	56	41633	93.452	ug/l 100
14) Acrylonitrile	3.12	53	131386	98.254	ug/l 100
15) Acetone	2.42	58	33493	96.785	ug/l 100
16) Carbon Disulfide	2.55	76	134717	19.146	ug/l 100
17) Allyl chloride	2.71	41	82912	19.788	ug/l 100
18) Methylene Chloride	2.84	84	51699	19.177	ug/l 100
19) trans-1,2-Dichloroethene	3.14	96	48427	19.096	ug/l 100
20) Diisopropyl ether	3.82	45	160969	19.223	ug/l 100
21) 1,1-Dichloroethane	3.67	63	89632	19.412	ug/l 100
22) cis-1,2-Dichloroethene	4.57	96	54415	19.272	ug/l 100
23) tert-Butyl Alcohol	3.01	59	57674	367.950	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	154293	19.306	ug/l 100
25) Chloroform	5.18	83	90398	19.310	ug/l 100
26) Cyclohexane	5.55	56	78005	19.366	ug/l # 100
29) 1,1-Dichloropropene	5.77	75	66462	19.163	ug/l 100
30) 2-Butanone	4.64	43	178477	98.729	ug/l 100
31) 2,2-Dichloropropane	4.55	77	77768	19.552	ug/l 100
32) 1,1,1-Trichloroethane	5.46	97	80947	19.289	ug/l 100
33) Carbon Tetrachloride	5.76	117	71830	19.301	ug/l 100
34) Benzene	6.11	78	196786	19.487	ug/l 100
35) Methacrylonitrile	5.01	41	39060	19.578	ug/l 100
36) 1,2-Dichloroethane	6.17	62	74884	19.362	ug/l 100
37) Trichloroethene	7.19	130	54033	19.609	ug/l 100
38) Methylcyclohexane	7.44	83	74054	18.750	ug/l 100
39) 1,2-Dichloropropane	7.49	63	50387	19.152	ug/l 100
40) Dibromomethane	7.63	93	35130	19.374	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	73255	19.510	ug/l	100
42) Vinyl Acetate	3.79	43	706512	96.983	ug/l	100
43) Ethyl Acetate	4.79	43	73220	19.604	ug/l	100
44) Isopropyl Acetate	6.42	43	118348	19.175	ug/l	100
45) 1,4-Dioxane	7.71	88	24797	398.234	ug/l	100
46) Methyl methacrylate	7.74	41	55122	19.298	ug/l	100
47) n-amyl Acetate	10.88	43	100394	18.402	ug/l	100
48) t-1,3-Dichloropropene	9.02	75	77060	18.562	ug/l	100
49) cis-1,3-Dichloropropene	8.42	75	84306	19.323	ug/l	100
50) 1,1,2-Trichloroethane	9.20	97	48263	19.072	ug/l	100
51) Ethyl methacrylate	9.16	69	73573	18.944	ug/l	100
52) 1,3-Dichloropropane	9.35	76	86605	19.934	ug/l	100
53) Dibromochloromethane	9.56	129	54809	18.844	ug/l	100
54) 1,2-Dibromoethane	9.65	107	51082	19.023	ug/l	100
55) 2-Chloroethyl vinyl ether	8.29	63	196361	96.081	ug/l	100
56) Bromoform	10.84	173	37732	18.275	ug/l	100
58) 4-Methyl-2-Pentanone	8.62	43	355529	97.641	ug/l	100
59) 2-Hexanone	9.47	43	264628	97.381	ug/l	100
61) Tetrachloroethene	9.32	164	48006	19.043	ug/l	100
62) Toluene	8.76	91	209706	19.396	ug/l	100
64) Chlorobenzene	10.12	112	128402	18.957	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.21	131	49140	19.271	ug/l	100
66) Ethyl Benzene	10.24	91	228759	19.080	ug/l	100
67) m/p-Xylenes	10.34	106	171008	37.809	ug/l	100
68) o-Xylene	10.68	106	82901	19.081	ug/l	100
69) Styrene	10.70	104	137608	18.498	ug/l	100
70) Isopropylbenzene	11.00	105	220499	18.712	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.25	83	68128	18.825	ug/l	100
72) 1,2,3-Trichloropropane	11.28	75	67918m	19.543	ug/l	100
73) Bromobenzene	11.24	156	56940	19.146	ug/l	100
74) n-propylbenzene	11.34	91	261011	18.655	ug/l	100
75) 2-Chlorotoluene	11.40	91	150662	18.466	ug/l	100
76) 1,3,5-Trimethylbenzene	11.49	105	184437	18.647	ug/l	100
77) t-1,4-Dichloro-2-butene	11.05	75	25794	18.314	ug/l	100
78) 4-Chlorotoluene	11.49	91	179139	18.544	ug/l	100
79) tert-butylbenzene	11.76	119	177301	18.712	ug/l	100
80) 1,2,4-Trimethylbenzene	11.79	105	186817	18.813	ug/l	100
81) sec-Butylbenzene	11.93	105	213174	18.582	ug/l	100
82) p-Isopropyltoluene	12.05	119	192863	18.619	ug/l	100
83) 1,3-Dichlorobenzene	12.01	146	100295	18.819	ug/l	100
84) 1,4-Dichlorobenzene	12.08	146	100551	18.778	ug/l	100
85) n-Butylbenzene	12.37	91	176667	18.426	ug/l	100
86) Hexachloroethane	12.58	117	38042	18.766	ug/l	100
87) 1,2-Dichlorobenzene	12.38	146	94467	18.937	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	12.98	75	15759	19.139	ug/l	100
89) 1,2,4-Trichlorobenzene	13.63	180	60952	18.111	ug/l	100
90) Hexachlorobutadiene	13.76	225	23083	18.030	ug/l	100
91) Naphthalene	13.82	128	207301	18.792	ug/l	100
92) 1,2,3-Trichlorobenzene	14.00	180	60708	18.484	ug/l	100

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

