

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102119\
 Data File : VX013150.D
 Acq On : 21 Oct 2019 12:37
 Operator : JC/SP
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 10/22/2019 12:30:11 PM

Quant Time: Oct 22 01:48:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 22 01:38:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	27158	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	153840	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	138338	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	63757	30.46	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.53%
60) 4-Bromofluorobenzene	11.13	95	72090	29.78	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.27%
63) Toluene-d8	8.71	98	189510	30.15	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	39178	20.992	ug/l 100
3) Chloromethane	1.32	50	33066	18.515	ug/l 100
4) Vinyl Chloride	1.40	62	34367	19.048	ug/l 100
5) Bromomethane	1.63	94	21414	24.986	ug/l 100
6) Chloroethane	1.72	64	22424	20.343	ug/l 100
7) Trichlorofluoromethane	1.92	101	55716	20.717	ug/l 100
8) Diethyl Ether	2.18	74	18723	19.370	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.37	101	32744	19.510	ug/l 100
10) 1,1-Dichloroethene	2.37	96	32501	19.699	ug/l 100
11) Methyl Iodide	2.50	142	39697	19.377	ug/l 100
12) Methyl Acetate	2.76	43	43067	18.828	ug/l 100
13) Acrolein	2.28	56	33380	99.815	ug/l 100
14) Acrylonitrile	3.13	53	90114	94.501	ug/l 100
15) Acetone	2.43	58	31089	95.567	ug/l 100
16) Carbon Disulfide	2.56	76	85014	19.092	ug/l 100
17) Allyl chloride	2.72	41	51772	18.697	ug/l 100
18) Methylene Chloride	2.85	84	37254	19.863	ug/l 100
19) trans-1,2-Dichloroethene	3.16	96	34536	19.618	ug/l 100
20) Diisopropyl ether	3.84	45	101971	19.248	ug/l 100
21) 1,1-Dichloroethane	3.69	63	60815	19.712	ug/l 100
22) cis-1,2-Dichloroethene	4.58	96	39768	19.572	ug/l 100
23) tert-Butyl Alcohol	3.03	59	47003	96.777	ug/l # 100
24) Methyl tert-Butyl Ether	3.19	73	111052	19.797	ug/l 100
25) Chloroform	5.20	83	64142	20.047	ug/l 100
26) Cyclohexane	5.57	56	52765	18.958	ug/l 100
29) 1,1-Dichloropropene	5.79	75	48370	20.341	ug/l 100
30) 2-Butanone	4.66	43	129477	95.241	ug/l 100
31) 2,2-Dichloropropane	4.57	77	54818	20.502	ug/l 100
32) 1,1,1-Trichloroethane	5.48	97	57455	20.609	ug/l 100
33) Carbon Tetrachloride	5.78	117	49135	20.549	ug/l 100
34) Benzene	6.14	78	139970	20.058	ug/l 100
35) Methacrylonitrile	5.03	41	25560	18.984	ug/l 100
36) 1,2-Dichloroethane	6.19	62	52924	20.760	ug/l 100
37) Trichloroethene	7.21	130	38205	20.305	ug/l 100
38) Methylcyclohexane	7.46	83	56866	19.659	ug/l 100
39) 1,2-Dichloropropane	7.51	63	34074	19.585	ug/l 100
40) Dibromomethane	7.65	93	24388	20.274	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	48451	20.295	ug/l	100
42) Vinyl Acetate	3.80	43	441131	97.731	ug/l	100
43) Ethyl Acetate	4.82	43	44985	18.231	ug/l	100
44) Isopropyl Acetate	6.43	43	77870	19.515	ug/l	100
45) 1,4-Dioxane	7.73	88	20114	403.080	ug/l	100
46) Methyl methacrylate	7.76	41	38110	19.379	ug/l	100
47) n-amyl Acetate	10.89	43	61750	18.159	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	51334	19.454	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	57285	19.754	ug/l	100
50) 1,1,2-Trichloroethane	9.21	97	35959	19.926	ug/l	100
51) Ethyl methacrylate	9.17	69	54697	19.298	ug/l	100
52) 1,3-Dichloropropane	9.37	76	60803	20.131	ug/l	100
53) Dibromochloromethane	9.57	129	37355	20.028	ug/l	100
54) 1,2-Dibromoethane	9.67	107	38656	20.382	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	112320	92.111	ug/l	100
56) Bromoform	10.85	173	25649	19.711	ug/l	100
58) 4-Methyl-2-Pentanone	8.64	43	239775	96.177	ug/l	100
59) 2-Hexanone	9.48	43	187392	96.509	ug/l	100
61) Tetrachloroethene	9.33	164	38551	21.708	ug/l	100
62) Toluene	8.78	91	150548	20.017	ug/l	100
64) Chlorobenzene	10.14	112	95113	19.885	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.21	131	36035	20.389	ug/l	100
66) Ethyl Benzene	10.25	91	170025	19.747	ug/l	100
67) m/p-Xylenes	10.36	106	130738	40.281	ug/l	100
68) o-Xylene	10.70	106	60338	19.285	ug/l	100
69) Styrene	10.71	104	106633	19.626	ug/l	100
70) Isopropylbenzene	11.01	105	170701	20.148	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	51307	18.949	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	50339m	21.468	ug/l	
73) Bromobenzene	11.25	156	39621	19.653	ug/l	100
74) n-propylbenzene	11.35	91	184857	19.679	ug/l	100
75) 2-Chlorotoluene	11.42	91	116610	20.045	ug/l	100
76) 1,3,5-Trimethylbenzene	11.50	105	138978	19.408	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	16459	18.522	ug/l	100
78) 4-Chlorotoluene	11.51	91	129937	19.459	ug/l	100
79) tert-butylbenzene	11.76	119	130402	19.373	ug/l	100
80) 1,2,4-Trimethylbenzene	11.80	105	138436	19.439	ug/l	100
81) sec-Butylbenzene	11.94	105	161083	19.726	ug/l	100
82) p-Isopropyltoluene	12.06	119	145443	19.497	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	71645	19.687	ug/l	100
84) 1,4-Dichlorobenzene	12.09	146	71204	19.385	ug/l	100
85) n-Butylbenzene	12.39	91	120317	18.996	ug/l	100
86) Hexachloroethane	12.59	117	24715	19.166	ug/l	100
87) 1,2-Dichlorobenzene	12.39	146	72047	19.939	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	12.99	75	12882	20.126	ug/l	100
89) 1,2,4-Trichlorobenzene	13.64	180	42719	19.057	ug/l	100
90) Hexachlorobutadiene	13.78	225	21091	19.565	ug/l	100
91) Naphthalene	13.83	128	141838	18.746	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	44273	19.586	ug/l	100

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

