

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050120\
 Data File : VX016026.D
 Acq On : 01 May 2020 20:49
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 5/4/2020 2:20:10 PM

Quant Time: May 02 08:16:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X043020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 30 12:42:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	53645	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	296361	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	276336	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	122942	29.82	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.40%
60) 4-Bromofluorobenzene	11.12	95	135332	29.20	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.33%
63) Toluene-d8	8.70	98	357720	30.18	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	67393	18.239	ug/l 98
3) Chloromethane	1.32	50	67911	18.758	ug/l 98
4) Vinyl Chloride	1.39	62	74708	18.163	ug/l 98
5) Bromomethane	1.63	94	49562	19.658	ug/l 97
6) Chloroethane	1.72	64	47865	17.751	ug/l 100
7) Trichlorofluoromethane	1.92	101	99673	16.918	ug/l 100
8) Diethyl Ether	2.17	74	40682	17.300	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	2.37	101	53562	17.604	ug/l 98
10) 1,1-Dichloroethene	2.36	96	56038	18.255	ug/l 99
11) Methyl Iodide	2.49	142	72582	17.320	ug/l 98
12) Methyl Acetate	2.75	43	105743	19.730	ug/l 99
13) Acrolein	2.28	56	37066	86.270	ug/l 100
14) Acrylonitrile	3.12	53	188486	95.211	ug/l 100
15) Acetone	2.42	58	52232	99.695	ug/l 96
16) Carbon Disulfide	2.55	76	168713	18.066	ug/l 99
17) Allyl chloride	2.71	41	102211	17.949	ug/l 95
18) Methylene Chloride	2.84	84	64263	18.688	ug/l 98
19) trans-1,2-Dichloroethene	3.14	96	60998	18.168	ug/l 99
20) Diisopropyl ether	3.82	45	201105	18.317	ug/l 90
21) 1,1-Dichloroethane	3.67	63	111245	18.171	ug/l 99
22) cis-1,2-Dichloroethene	4.56	96	70352	18.465	ug/l 95
23) tert-Butyl Alcohol	3.01	59	92174	95.116	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	203907	18.497	ug/l 96
25) Chloroform	5.18	83	111709	17.966	ug/l 94
26) Cyclohexane	5.56	56	99404	17.756	ug/l # 99
29) 1,1-Dichloropropene	5.78	75	83064	17.821	ug/l 99
30) 2-Butanone	4.64	43	266789	96.059	ug/l 99
31) 2,2-Dichloropropane	4.56	77	87268	15.557	ug/l 99
32) 1,1,1-Trichloroethane	5.46	97	100142	17.711	ug/l 100
33) Carbon Tetrachloride	5.76	117	88650	17.609	ug/l 98
34) Benzene	6.12	78	251652	18.484	ug/l 98
35) Methacrylonitrile	5.01	41	55708	18.887	ug/l 98
36) 1,2-Dichloroethane	6.17	62	93506	17.985	ug/l 100
37) Trichloroethene	7.20	130	86143	17.786	ug/l 98
38) Methylcyclohexane	7.45	83	98655	17.320	ug/l 99
39) 1,2-Dichloropropane	7.49	63	64743	18.526	ug/l 100
40) Dibromomethane	7.64	93	43726	18.019	ug/l 99

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X043020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.88	83	89432	17.877	ug/l	99
42) Vinyl Acetate	3.79	43	832920	90.648	ug/l	100
43) Ethyl Acetate	4.80	43	102694	18.745	ug/l	99
44) Isopropyl Acetate	6.42	43	164078	18.455	ug/l	99
45) 1,4-Dioxane	7.71	88	34827	370.857	ug/l	98
46) Methyl methacrylate	7.75	41	77080	18.288	ug/l	96
47) n-amyl Acetate	10.88	43	136224	17.523	ug/l	97
48) t-1,3-Dichloropropene	9.02	75	102271	17.605	ug/l	98
49) cis-1,3-Dichloropropene	8.42	75	106578	17.757	ug/l	97
50) 1,1,2-Trichloroethane	9.20	97	61955	18.117	ug/l	96
51) Ethyl methacrylate	9.16	69	102232	18.104	ug/l	95
52) 1,3-Dichloropropane	9.35	76	109646	18.548	ug/l	99
53) Dibromochloromethane	9.57	129	68060	17.494	ug/l	99
54) 1,2-Dibromoethane	9.65	107	67921	18.072	ug/l	100
55) 2-Chloroethyl vinyl ether	8.29	63	265317	86.363	ug/l	99
56) Bromoform	10.84	173	48649	16.596	ug/l	97
58) 4-Methyl-2-Pentanone	8.62	43	507534	93.135	ug/l	99
59) 2-Hexanone	9.48	43	390550	92.784	ug/l	98
61) Tetrachloroethene	9.32	164	96477	17.650	ug/l	96
62) Toluene	8.77	91	266813	18.073	ug/l	100
64) Chlorobenzene	10.12	112	166314	17.693	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	61543	17.246	ug/l	97
66) Ethyl Benzene	10.24	91	301086	17.910	ug/l	99
67) m/p-Xylenes	10.34	106	225482	35.209	ug/l	99
68) o-Xylene	10.68	106	108280	17.534	ug/l	99
69) Styrene	10.70	104	183781	17.388	ug/l	99
70) Isopropylbenzene	11.01	105	288593	17.309	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	59736	19.272	ug/l	97
72) 1,2,3-Trichloropropane	11.28	75	90864m	18.100	ug/l	
73) Bromobenzene	11.24	156	73245	17.433	ug/l	99
74) n-propylbenzene	11.35	91	333494	17.220	ug/l	100
75) 2-Chlorotoluene	11.41	91	198321	17.426	ug/l	99
76) 1,3,5-Trimethylbenzene	11.49	105	243945	17.236	ug/l	99
77) t-1,4-Dichloro-2-butene	11.06	75	36280	16.807	ug/l	97
78) 4-Chlorotoluene	11.49	91	232675	17.272	ug/l	100
79) tert-butylbenzene	11.76	119	209434	17.327	ug/l	97
80) 1,2,4-Trimethylbenzene	11.79	105	244819	17.315	ug/l	100
81) sec-Butylbenzene	11.93	105	276577	16.965	ug/l	100
82) p-Isopropyltoluene	12.05	119	251602	16.654	ug/l	100
83) 1,3-Dichlorobenzene	12.01	146	130553	17.235	ug/l	100
84) 1,4-Dichlorobenzene	12.09	146	131595	17.483	ug/l	100
85) n-Butylbenzene	12.37	91	224928	16.299	ug/l	99
86) Hexachloroethane	12.58	117	44179	16.611	ug/l	97
87) 1,2-Dichlorobenzene	12.38	146	127838	17.449	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	23217	17.901	ug/l	98
89) 1,2,4-Trichlorobenzene	13.63	180	92166	17.080	ug/l	100
90) Hexachlorobutadiene	13.77	225	38845	16.749	ug/l	97
91) Naphthalene	13.82	128	308064	17.932	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	91558	17.661	ug/l	96

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

