

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050120\
 Data File : VX016007.D
 Acq On : 01 May 2020 13:24
 Operator : JC/SP
 Sample : VX0501WBS02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0501WBS02

Manual Integrations
 APPROVED

MMDadoda
 5/4/2020 2:19:53 PM

Quant Time: May 02 07:25:34 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	51696	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	292293	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	268013	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	119384	30.05	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.17%
60) 4-Bromofluorobenzene	11.12	95	131455	29.25	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.50%
63) Toluene-d8	8.70	98	350425	30.48	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	71322	20.030	ug/l 98
3) Chloromethane	1.31	50	68895	19.748	ug/l 98
4) Vinyl Chloride	1.39	62	76374	19.268	ug/l 100
5) Bromomethane	1.63	94	51141	21.049	ug/l 99
6) Chloroethane	1.72	64	48790	18.776	ug/l 99
7) Trichlorofluoromethane	1.92	101	107495	18.933	ug/l 100
8) Diethyl Ether	2.17	74	41057	18.118	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	56433	19.247	ug/l 99
10) 1,1-Dichloroethene	2.36	96	55869	18.886	ug/l 96
11) Methyl Iodide	2.49	142	72096	17.853	ug/l 98
12) Methyl Acetate	2.75	43	99281	19.223	ug/l 100
13) Acrolein	2.27	56	32398	78.248	ug/l 99
14) Acrylonitrile	3.11	53	176029	92.271	ug/l 100
15) Acetone	2.42	58	47638	94.355	ug/l 98
16) Carbon Disulfide	2.55	76	169343	18.817	ug/l 98
17) Allyl chloride	2.71	41	101757	18.543	ug/l 97
18) Methylene Chloride	2.84	84	62320	18.806	ug/l 96
19) trans-1,2-Dichloroethene	3.14	96	60334	18.648	ug/l 97
20) Diisopropyl ether	3.82	45	195333	18.462	ug/l 99
21) 1,1-Dichloroethane	3.67	63	110059	18.655	ug/l 99
22) cis-1,2-Dichloroethene	4.56	96	68212	18.578	ug/l 98
23) tert-Butyl Alcohol	3.01	59	87298	93.481	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	198162	18.654	ug/l 99
25) Chloroform	5.17	83	110521	18.445	ug/l 93
26) Cyclohexane	5.54	56	100207	18.574	ug/l # 99
29) 1,1-Dichloropropene	5.77	75	85715	18.645	ug/l 98
30) 2-Butanone	4.63	43	250505	91.451	ug/l 99
31) 2,2-Dichloropropane	4.55	77	99980	18.071	ug/l 99
32) 1,1,1-Trichloroethane	5.46	97	102154	18.318	ug/l 99
33) Carbon Tetrachloride	5.76	117	88964	17.917	ug/l 98
34) Benzene	6.11	78	248112	18.478	ug/l 97
35) Methacrylonitrile	5.00	41	53742	18.474	ug/l 97
36) 1,2-Dichloroethane	6.16	62	93757	18.284	ug/l 99
37) Trichloroethene	7.19	130	91515	19.159	ug/l 99
38) Methylcyclohexane	7.44	83	104386	18.581	ug/l 100
39) 1,2-Dichloropropane	7.49	63	63163	18.325	ug/l 92
40) Dibromomethane	7.64	93	43415	18.139	ug/l 99

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.87	83	87331	17.700	ug/l	99
42) Vinyl Acetate	3.78	43	812359	89.641	ug/l	100
43) Ethyl Acetate	4.79	43	97885	18.116	ug/l	99
44) Isopropyl Acetate	6.41	43	158637	18.092	ug/l	99
45) 1,4-Dioxane	7.71	88	34561	373.147	ug/l	99
46) Methyl methacrylate	7.74	41	74088	17.823	ug/l	97
47) n-amyl Acetate	10.88	43	131056	17.093	ug/l	98
48) t-1,3-Dichloropropene	9.02	75	101822	17.771	ug/l	99
49) cis-1,3-Dichloropropene	8.42	75	106963	18.069	ug/l	98
50) 1,1,2-Trichloroethane	9.20	97	59383	17.607	ug/l	96
51) Ethyl methacrylate	9.16	69	97802	17.561	ug/l	97
52) 1,3-Dichloropropane	9.35	76	105364	18.071	ug/l	99
53) Dibromochloromethane	9.57	129	66560	17.346	ug/l	100
54) 1,2-Dibromoethane	9.65	107	66223	17.865	ug/l	100
55) 2-Chloroethyl vinyl ether	8.29	63	266435	87.934	ug/l	100
56) Bromoform	10.84	173	47678	16.491	ug/l	98
58) 4-Methyl-2-Pentanone	8.62	43	482365	91.266	ug/l	99
59) 2-Hexanone	9.47	43	369806	90.584	ug/l	99
61) Tetrachloroethene	9.32	164	99794	18.823	ug/l	92
62) Toluene	8.76	91	263182	18.381	ug/l	99
64) Chlorobenzene	10.12	112	165541	18.157	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.21	131	60963	17.614	ug/l	98
66) Ethyl Benzene	10.24	91	298592	18.313	ug/l	99
67) m/p-Xylenes	10.34	106	226303	36.435	ug/l	98
68) o-Xylene	10.68	106	107302	17.915	ug/l	99
69) Styrene	10.70	104	179522	17.513	ug/l	99
70) Isopropylbenzene	11.00	105	289112	17.878	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	46563	15.489	ug/l	99
72) 1,2,3-Trichloropropane	11.28	75	89938m	18.472	ug/l	
73) Bromobenzene	11.24	156	72927	17.896	ug/l	99
74) n-propylbenzene	11.34	91	340196	18.112	ug/l	99
75) 2-Chlorotoluene	11.40	91	197031	17.851	ug/l	98
76) 1,3,5-Trimethylbenzene	11.49	105	240688	17.534	ug/l	100
77) t-1,4-Dichloro-2-butene	11.06	75	35896	17.146	ug/l	99
78) 4-Chlorotoluene	11.49	91	233327	17.859	ug/l	100
79) tert-butylbenzene	11.76	119	207892	17.733	ug/l	98
80) 1,2,4-Trimethylbenzene	11.79	105	243865	17.783	ug/l	100
81) sec-Butylbenzene	11.93	105	282089	17.840	ug/l	100
82) p-Isopropyltoluene	12.05	119	260724	17.794	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	132009	17.968	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	132115	18.097	ug/l	99
85) n-Butylbenzene	12.37	91	238303	17.804	ug/l	98
86) Hexachloroethane	12.58	117	44548	17.270	ug/l	97
87) 1,2-Dichlorobenzene	12.38	146	127457	17.937	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	21686	17.239	ug/l	98
89) 1,2,4-Trichlorobenzene	13.63	180	90532	17.298	ug/l	96
90) Hexachlorobutadiene	13.77	225	40117	17.835	ug/l	94
91) Naphthalene	13.82	128	295486	17.734	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	90561	18.011	ug/l	96

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

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