

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052721\
 Data File : VX022219.D
 Acq On : 27 May 2021 01:19
 Operator : JC/MD
 Sample : VX0527WBSD02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0527WBSD02

Manual Integrations
 APPROVED

MMDadoda
 5/28/2021 2:35:49 PM

Quant Time: May 27 05:01:25 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 13 06:11:35 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.904	128	16315	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	94285	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	84329	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	38823	30.89	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	= 102.97%		
60) 4-Bromofluorobenzene	11.085	95	41954	29.98	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	= 99.93%		
63) Toluene-d8	8.653	98	115157	29.88	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	= 99.60%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.173	85	20330	21.11	ug/l	95
3) Chloromethane	1.294	50	21074	18.22	ug/l	99
4) Vinyl Chloride	1.374	62	22820	18.99	ug/l	98
5) Bromomethane	1.605	94	12857	19.01	ug/l	98
6) Chloroethane	1.685	64	13866	17.93	ug/l	99
7) Trichlorofluoromethane	1.886	101	32339	19.26	ug/l	100
8) Diethyl Ether	2.142	74	13169	18.29	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.331	101	18381	19.09	ug/l	98
10) 1,1-Dichloroethene	2.319	96	19431	20.04	ug/l	95
11) Methyl Iodide	2.453	142	20177	20.92	ug/l	96
12) Methyl Acetate	2.709	43	30960	23.09	ug/l	100
13) Acrolein	2.239	56	30158	145.03	ug/l	99
14) Acrylonitrile	3.069	53	61285	112.01	ug/l	99
15) Acetone	2.386	58	18315	112.13	ug/l	89
16) Carbon Disulfide	2.514	76	46628	17.58	ug/l	100
17) Allyl chloride	2.666	41	32995	19.30	ug/l	95
18) Methylene Chloride	2.794	84	23292	20.20	ug/l	95
19) trans-1,2-Dichloroethene	3.093	96	21221	20.14	ug/l	94
20) Diisopropyl ether	3.770	45	65993	20.48	ug/l	93
21) 1,1-Dichloroethane	3.617	63	38838	20.13	ug/l	98
22) cis-1,2-Dichloroethene	4.495	96	25593	20.66	ug/l	94
23) tert-Butyl Alcohol	2.977	59	31438	118.20	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	64955	20.57	ug/l	100
25) Chloroform	5.105	83	39779	20.34	ug/l	100
26) Cyclohexane	5.483	56	32069	20.14	ug/l #	97
29) 1,1-Dichloropropene	5.702	75	29833	20.22	ug/l	98
30) 2-Butanone	4.574	43	95078	113.83	ug/l	99
31) 2,2-Dichloropropane	4.489	77	23782	13.72	ug/l	97
32) 1,1,1-Trichloroethane	5.397	97	33550	19.27	ug/l	100
33) Carbon Tetrachloride	5.684	117	28005	18.95	ug/l	92
34) Benzene	6.044	78	91382	20.30	ug/l	95
35) Methacrylonitrile	4.934	41	19710	22.04	ug/l	92
36) 1,2-Dichloroethane	6.098	62	32689	21.27	ug/l #	90
37) Trichloroethene	7.129	130	22448	19.84	ug/l	100
38) Methylcyclohexane	7.391	83	32648	19.49	ug/l	96
39) 1,2-Dichloropropane	7.440	63	24236	21.56	ug/l	92
40) Dibromomethane	7.586	93	15883	20.30	ug/l	97
41) Bromodichloromethane	7.830	83	29501	18.89	ug/l	96
42) Vinyl Acetate	3.733	43	320557	102.76	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	37077	21.84	ug/l	98
44) Isopropyl Acetate	6.355	43	59014	21.08	ug/l	98
45) 1,4-Dioxane	7.665	88	12335	493.50	ug/l #	100
46) Methyl methacrylate	7.702	41	27306	21.04	ug/l	94
47) n-amyl Acetate	10.848	43	50620	21.74	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	32397	18.48	ug/l	92
49) cis-1,3-Dichloropropene	8.372	75	34793	18.49	ug/l	97
50) 1,1,2-Trichloroethane	9.159	97	23731	21.31	ug/l	96
51) Ethyl methacrylate	9.122	69	37578	20.93	ug/l	96
52) 1,3-Dichloropropane	9.311	76	40556	20.89	ug/l	99
53) Dibromochloromethane	9.525	129	21043	18.81	ug/l	99
54) 1,2-Dibromoethane	9.616	107	23150	20.25	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	89833	94.78	ug/l	99
56) Bromoform	10.805	173	12371	17.43	ug/l #	96
58) 4-Methyl-2-Pentanone	8.580	43	185781	109.25	ug/l	99
59) 2-Hexanone	9.433	43	143259	113.75	ug/l	97
61) Tetrachloroethene	9.275	164	19148	20.02	ug/l	91
62) Toluene	8.720	91	96507	19.99	ug/l	99
64) Chlorobenzene	10.086	112	59126	20.48	ug/l	95
65) 1,1,1,2-Tetrachloroethane	10.165	131	19850	18.84	ug/l	98
66) Ethyl Benzene	10.195	91	110056	20.72	ug/l	100
67) m/p-Xylenes	10.305	106	80653	40.06	ug/l	100
68) o-Xylene	10.646	106	39403	20.10	ug/l	95
69) Styrene	10.659	104	65173	19.86	ug/l	100
70) Isopropylbenzene	10.963	105	105085	20.40	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	36557	21.53	ug/l	98
72) 1,2,3-Trichloropropane	11.244	75	32068m	21.31	ug/l	
73) Bromobenzene	11.201	156	21437	19.65	ug/l	92
74) n-propylbenzene	11.305	91	123877	20.64	ug/l	100
75) 2-Chlorotoluene	11.366	91	74202	20.87	ug/l	99
76) 1,3,5-Trimethylbenzene	11.457	105	88626	20.61	ug/l	98
77) t-1,4-Dichloro-2-butene	11.024	75	9832	16.12	ug/l	90
78) 4-Chlorotoluene	11.457	91	82825	20.24	ug/l	100
79) tert-butylbenzene	11.719	119	83176	20.23	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	86960	20.24	ug/l	99
81) sec-Butylbenzene	11.896	105	104441	20.21	ug/l	100
82) p-Isopropyltoluene	12.012	119	86412	19.94	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	41091	19.87	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	42586	20.53	ug/l	99
85) n-Butylbenzene	12.335	91	77492	19.51	ug/l	98
86) Hexachloroethane	12.542	117	12614	17.52	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	42346	21.14	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	7367	19.49	ug/l	94
89) 1,2,4-Trichlorobenzene	13.591	180	23558	19.20	ug/l	99
90) Hexachlorobutadiene	13.731	225	8814	18.56	ug/l	96
91) Naphthalene	13.780	128	101229	21.03	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	23972	19.67	ug/l	98

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

