

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052921\
 Data File : VX022260.D
 Acq On : 28 May 2021 18:03
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 6/2/2021 2:28:03 PM

Quant Time: May 29 03:52:33 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	16265	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	94286	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.061	117	85392	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	39321	31.39	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	104.63%	
60) 4-Bromofluorobenzene	11.085	95	43759	30.88	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	102.93%	
63) Toluene-d8	8.653	98	117911	30.22	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	100.73%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	18184	18.94	ug/l	88
3) Chloromethane	1.294	50	20651	17.91	ug/l	96
4) Vinyl Chloride	1.374	62	21622	18.05	ug/l	100
5) Bromomethane	1.605	94	12530	18.59	ug/l	97
6) Chloroethane	1.685	64	13349	17.31	ug/l	96
7) Trichlorofluoromethane	1.886	101	30571	18.27	ug/l	97
8) Diethyl Ether	2.136	74	12836	17.88	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.331	101	17904	18.65	ug/l	99
10) 1,1-Dichloroethene	2.319	96	17879	18.49	ug/l	89
11) Methyl Iodide	2.453	142	20874	21.71	ug/l	97
12) Methyl Acetate	2.709	43	30238	22.62	ug/l	97
13) Acrolein	2.239	56	26652	128.56	ug/l	98
14) Acrylonitrile	3.069	53	59048	108.26	ug/l	98
15) Acetone	2.386	58	17138	105.25	ug/l	97
16) Carbon Disulfide	2.514	76	43683	16.52	ug/l	97
17) Allyl chloride	2.666	41	32966	19.35	ug/l	97
18) Methylene Chloride	2.794	84	22253	19.36	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	20953	19.94	ug/l	95
20) Diisopropyl ether	3.770	45	66074	20.57	ug/l	98
21) 1,1-Dichloroethane	3.617	63	38016	19.76	ug/l	97
22) cis-1,2-Dichloroethene	4.501	96	24527	19.86	ug/l	98
23) tert-Butyl Alcohol	2.971	59	27692	104.44	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	63117	20.05	ug/l	99
25) Chloroform	5.111	83	39191	20.10	ug/l	99
26) Cyclohexane	5.477	56	31034	19.55	ug/l #	94
29) 1,1-Dichloropropene	5.702	75	28708	19.45	ug/l	99
30) 2-Butanone	4.568	43	90406	108.23	ug/l	98
31) 2,2-Dichloropropane	4.483	77	30782	17.75	ug/l	100
32) 1,1,1-Trichloroethane	5.391	97	32584	18.72	ug/l	99
33) Carbon Tetrachloride	5.678	117	26018	17.61	ug/l	90
34) Benzene	6.050	78	89344	19.84	ug/l	98
35) Methacrylonitrile	4.928	41	18278	20.44	ug/l	91
36) 1,2-Dichloroethane	6.098	62	31500	20.49	ug/l #	89
37) Trichloroethene	7.135	130	21012	18.57	ug/l	98
38) Methylcyclohexane	7.385	83	32407	19.34	ug/l	99
39) 1,2-Dichloropropane	7.434	63	22955	20.42	ug/l	95
40) Dibromomethane	7.586	93	15197	19.43	ug/l	96
41) Bromodichloromethane	7.830	83	28224	18.07	ug/l	96
42) Vinyl Acetate	3.733	43	314559	100.84	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	34075	20.07	ug/l	96
44) Isopropyl Acetate	6.348	43	58308	20.83	ug/l	96
45) 1,4-Dioxane	7.665	88	10598	424.01	ug/l #	100
46) Methyl methacrylate	7.702	41	26029	20.05	ug/l	93
47) n-amyl Acetate	10.848	43	49899	21.43	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	32955	18.80	ug/l	97
49) cis-1,3-Dichloropropene	8.372	75	35576	18.91	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	22037	19.79	ug/l	95
51) Ethyl methacrylate	9.122	69	35832	19.95	ug/l	99
52) 1,3-Dichloropropane	9.311	76	38725	19.95	ug/l	97
53) Dibromochloromethane	9.525	129	19254	17.21	ug/l	99
54) 1,2-Dibromoethane	9.616	107	23189	20.28	ug/l	95
55) 2-Chloroethyl vinyl ether	8.244	63	94665	99.88	ug/l	98
56) Bromoform	10.805	173	11228	15.82	ug/l #	98
58) 4-Methyl-2-Pentanone	8.580	43	180025	104.55	ug/l	99
59) 2-Hexanone	9.433	43	139013	109.00	ug/l	97
61) Tetrachloroethene	9.275	164	17873	18.45	ug/l	88
62) Toluene	8.720	91	92825	18.98	ug/l	100
64) Chlorobenzene	10.079	112	56008	19.16	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.165	131	19310	18.10	ug/l	98
66) Ethyl Benzene	10.195	91	103574	19.26	ug/l	99
67) m/p-Xylenes	10.305	106	78614	38.56	ug/l	99
68) o-Xylene	10.646	106	38359	19.32	ug/l	95
69) Styrene	10.659	104	64811	19.51	ug/l	98
70) Isopropylbenzene	10.963	105	101091	19.38	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	35196	20.47	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	31732m	20.82	ug/l	
73) Bromobenzene	11.201	156	21240	19.23	ug/l	94
74) n-propylbenzene	11.305	91	121529	19.99	ug/l	99
75) 2-Chlorotoluene	11.366	91	70371	19.55	ug/l	100
76) 1,3,5-Trimethylbenzene	11.457	105	84464	19.40	ug/l	100
77) t-1,4-Dichloro-2-butene	11.024	75	10368	16.78	ug/l	85
78) 4-Chlorotoluene	11.457	91	81703	19.72	ug/l	99
79) tert-butylbenzene	11.719	119	80175	19.25	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	85044	19.54	ug/l	98
81) sec-Butylbenzene	11.896	105	102131	19.51	ug/l	99
82) p-Isopropyltoluene	12.012	119	85305	19.44	ug/l	99
83) 1,3-Dichlorobenzene	11.975	146	39898	19.05	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	41155	19.59	ug/l	98
85) n-Butylbenzene	12.335	91	77516	19.28	ug/l	99
86) Hexachloroethane	12.542	117	12250	16.80	ug/l	95
87) 1,2-Dichlorobenzene	12.341	146	40265	19.85	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	6973	18.21	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	22914	18.44	ug/l	96
90) Hexachlorobutadiene	13.725	225	8346	17.36	ug/l	98
91) Naphthalene	13.780	128	98046	20.11	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	24394	19.77	ug/l	96

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

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