

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN030521\
 Data File : VN066137.D
 Acq On : 5 Mar 2021 15:59
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN030521

Manual Integrations
 APPROVED

MMDadoda
 3/8/2021 10:53:41 AM

Quant Time: Mar 06 02:40:54 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N030521W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Mar 06 02:33:59 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.164	128	38875	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.557	114	223750	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.380	117	210394	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.997	65	102234	30.29	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.97%			
60) 4-Bromofluorobenzene	12.373	95	109342	30.01	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.03%			
63) Toluene-d8	10.061	98	278488	29.37	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 97.90%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.872	85	33404	17.64	ug/l	100
3) Chloromethane	2.075	50	51258	20.05	ug/l	99
4) Vinyl Chloride	2.203	62	50271	18.99	ug/l	98
5) Bromomethane	2.573	94	38583	20.77	ug/l	98
6) Chloroethane	2.714	64	29761	19.04	ug/l	96
7) Trichlorofluoromethane	3.026	101	74887	18.51	ug/l	97
8) Diethyl Ether	3.412	74	27044	19.63	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.756	101	31676	18.66	ug/l	94
10) 1,1-Dichloroethene	3.734	96	37206	19.28	ug/l	89
11) Methyl Iodide	3.946	142	52519	17.58	ug/l	93
12) Methyl Acetate	4.312	43	40479	19.49	ug/l	100
13) Acrolein	3.605	56	32739	90.41	ug/l	98
14) Acrylonitrile	4.968	53	95324	94.83	ug/l	99
15) Acetone	3.811	58	32219	109.10	ug/l #	65
16) Carbon Disulfide	4.049	76	110146	19.43	ug/l	99
17) Allyl chloride	4.312	41	66695	19.11	ug/l	94
18) Methylene Chloride	4.544	84	46722	19.57	ug/l	97
19) trans-1,2-Dichloroethene	5.020	96	42598	19.23	ug/l	93
20) Diisopropyl ether	5.926	45	132407	19.54	ug/l	96
21) 1,1-Dichloroethane	5.824	63	80686	18.94	ug/l	99
22) cis-1,2-Dichloroethene	6.801	96	50524	18.85	ug/l	94
23) tert-Butyl Alcohol	4.772	59	43816	97.75	ug/l #	100
24) Methyl tert-Butyl Ether	5.023	73	151970	19.36	ug/l	94
25) Chloroform	7.341	83	87430	18.97	ug/l	96
26) Cyclohexane	7.624	56	59980	18.46	ug/l #	100
29) 1,1-Dichloropropene	7.762	75	60438	18.40	ug/l	97
30) 2-Butanone	6.804	43	129927	97.21	ug/l	99
31) 2,2-Dichloropropane	6.795	77	81885	19.01	ug/l	94
32) 1,1,1-Trichloroethane	7.544	97	77838	18.27	ug/l	99
33) Carbon Tetrachloride	7.743	117	66918	18.34	ug/l	94
34) Benzene	8.013	78	188279	18.92	ug/l	96
35) Methacrylonitrile	7.139	41	24010	16.02	ug/l	94
36) 1,2-Dichloroethane	8.094	62	76096	18.70	ug/l	96
37) Trichloroethene	8.804	130	51837	19.20	ug/l	93
38) Methylcyclohexane	9.052	83	63071	17.90	ug/l	97
39) 1,2-Dichloropropane	9.087	63	48213	19.06	ug/l	96
40) Dibromomethane	9.177	93	32435	18.66	ug/l	86
41) Bromodichloromethane	9.373	83	72920	18.75	ug/l	99
42) Vinyl Acetate	5.869	43	565761	95.25	ug/l #	89

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.894	43	52642	18.80	ug/l	93
44) Isopropyl Acetate	8.132	43	92462	18.20	ug/l	98
45) 1,4-Dioxane	9.171	88	17673	399.20	ug/l	97
46) Methyl methacrylate	9.171	41	42676	17.86	ug/l	98
47) n-amyl Acetate	12.045	43	57988	15.89	ug/l	98
48) t-1,3-Dichloropropene	10.351	75	84322	18.79	ug/l	96
49) cis-1,3-Dichloropropene	9.807	75	85946	18.52	ug/l #	90
50) 1,1,2-Trichloroethane	10.531	97	46353	19.09	ug/l	97
51) Ethyl methacrylate	10.399	69	68247	18.62	ug/l	94
52) 1,3-Dichloropropane	10.679	76	80425	18.94	ug/l	99
53) Dibromochloromethane	10.872	129	53697	18.10	ug/l	99
54) 1,2-Dibromoethane	10.978	107	47613	18.58	ug/l	97
55) 2-Chloroethyl vinyl ether	9.663	63	120970	93.65	ug/l	99
56) Bromoform	12.100	173	35498	18.08	ug/l #	95
58) 4-Methyl-2-Pentanone	9.952	43	260180	93.41	ug/l	99
59) 2-Hexanone	10.720	43	175498	90.56	ug/l	99
61) Tetrachloroethene	10.602	164	52534	19.39	ug/l	92
62) Toluene	10.126	91	204350	18.80	ug/l	97
64) Chlorobenzene	11.402	112	132419	18.78	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.479	131	50213	18.50	ug/l	97
66) Ethyl Benzene	11.483	91	232509	18.65	ug/l	99
67) m/p-Xylenes	11.592	106	179186	37.06	ug/l	94
68) o-Xylene	11.917	106	88800	18.71	ug/l	93
69) Styrene	11.936	104	144366	18.58	ug/l	94
70) Isopropylbenzene	12.219	105	230288	18.59	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.476	83	62511	18.52	ug/l	97
72) 1,2,3-Trichloropropane	12.524	75	62220m	18.21	ug/l	
73) Bromobenzene	12.495	156	54812	18.37	ug/l	79
74) n-propylbenzene	12.563	91	255423	18.64	ug/l	97
75) 2-Chlorotoluene	12.646	91	165359	18.88	ug/l	93
76) 1,3,5-Trimethylbenzene	12.704	105	203887	18.32	ug/l	99
77) t-1,4-Dichloro-2-butene	12.273	75	21417	17.96	ug/l	97
78) 4-Chlorotoluene	12.743	91	167679	18.80	ug/l	95
79) tert-butylbenzene	12.965	119	172876	18.66	ug/l	93
80) 1,2,4-Trimethylbenzene	13.010	105	204184	18.66	ug/l	97
81) sec-Butylbenzene	13.142	105	214234	18.54	ug/l	97
82) p-Isopropyltoluene	13.261	119	202790	18.46	ug/l	96
83) 1,3-Dichlorobenzene	13.254	146	95872	18.56	ug/l	96
84) 1,4-Dichlorobenzene	13.335	146	96381	19.32	ug/l	97
85) n-Butylbenzene	13.585	91	158653	18.37	ug/l	98
86) Hexachloroethane	13.843	117	30351	17.75	ug/l	75
87) 1,2-Dichlorobenzene	13.624	146	96067	18.79	ug/l	94
88) 1,2-Dibromo-3-Chloropr...	14.241	75	14559	18.13	ug/l #	72
89) 1,2,4-Trichlorobenzene	14.878	180	48522	17.57	ug/l	97
90) Hexachlorobutadiene	14.978	225	24558	19.59	ug/l	95
91) Naphthalene	15.100	128	143303	17.74	ug/l	98
92) 1,2,3-Trichlorobenzene	15.280	180	52389	18.61	ug/l	96

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

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