

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052121\
 Data File : VN067158.D
 Acq On : 21 May 2021 14:47
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 5/24/2021 3:52:42 PM

Quant Time: May 21 16:26:12 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N052121W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 21 16:23:59 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.597	168	234293	50.00	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.525	114	451256	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.357	117	389266	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.301	152	129749	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.959	65	19628	7.12	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	14.24%	#	
35) Dibromofluoromethane	7.522	113	15059	5.12	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	10.24%	#	
50) Toluene-d8	10.037	98	57109	5.12	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	10.24%	#	
62) 4-Bromofluorobenzene	12.365	95	16336	4.33	ug/l	0.01
Spiked Amount 50.000	Range 58 - 135		Recovery =	8.66%	#	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.855	85	15909	6.88	ug/l	99
3) Chloromethane	2.056	50	22749	7.88	ug/l	97
4) Vinyl Chloride	2.182	62	19360	6.96	ug/l	98
5) Bromomethane	2.520	94	11233	6.09	ug/l	88
6) Chloroethane	2.667	64	10011	6.14	ug/l	98
7) Trichlorofluoromethane	2.987	101	23702	6.73	ug/l	96
8) Diethyl Ether	3.370	74	10853	7.19	ug/l	88
9) 1,1,2-Trichlorotrifluo...	3.711	101	14719	6.55	ug/l	89
10) Methyl Iodide	3.898	142	19916	5.51	ug/l	# 87
11) Tert butyl alcohol	4.724	59	23188	47.70	ug/l	98
12) 1,1-Dichloroethene	3.684	96	15105	6.48	ug/l	85
13) Acrolein	3.561	56	17802	69.98	ug/l	91
14) Allyl chloride	4.258	41	33959	8.78	ug/l	# 93
15) Acrylonitrile	4.910	53	42258	39.83	ug/l	# 87
16) Acetone	3.770	43	40871	45.12	ug/l	97
17) Carbon Disulfide	3.998	76	46408	7.21	ug/l	99
18) Methyl Acetate	4.271	43	22834	8.61	ug/l	# 73
19) Methyl tert-butyl Ether	4.971	73	52288	7.31	ug/l	97
20) Methylene Chloride	4.483	84	20317	6.81	ug/l	91
21) trans-1,2-Dichloroethene	4.958	96	16382m	6.60	ug/l	
22) Diisopropyl ether	5.870	45	58792	8.34	ug/l	# 74
23) Vinyl Acetate	5.816	43	266929	42.66	ug/l	# 92
24) 1,1-Dichloroethane	5.765	63	34352	7.49	ug/l	98
25) 2-Butanone	6.763	43	61841	43.19	ug/l	# 87
26) 2,2-Dichloropropane	6.744	77	29303	7.07	ug/l	94
27) cis-1,2-Dichloroethene	6.752	96	19221	6.49	ug/l	86
28) Bromochloromethane	7.122	49	16982	8.63	ug/l	# 68
29) Tetrahydrofuran	7.144	42	41269	46.25	ug/l	# 83
30) Chloroform	7.299	83	32778	7.09	ug/l	99
31) Cyclohexane	7.581	56	33457	8.56	ug/l	# 86
32) 1,1,1-Trichloroethane	7.500	97	28207	6.82	ug/l	# 94
36) 1,1-Dichloropropene	7.720	75	25195	6.01	ug/l	93
37) Ethyl Acetate	6.854	43	25499	6.47	ug/l	# 79
38) Carbon Tetrachloride	7.704	117	23733	5.41	ug/l	97
39) Methylcyclohexane	9.021	83	26831	5.49	ug/l	91
40) Benzene	7.975	78	75672	5.93	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.090	41	11679m	7.22	ug/l	
42) 1,2-Dichloroethane	8.058	62	25950	6.27	ug/l	96
43) Isopropyl Acetate	8.098	43	45917	7.07	ug/l #	85
44) Trichloroethene	8.774	130	17138	4.92	ug/l	79
45) 1,2-Dichloropropane	9.056	63	20735	6.17	ug/l	100
46) Dibromomethane	9.150	93	12545	5.66	ug/l #	82
47) Bromodichloromethane	9.346	83	25850	5.62	ug/l	94
48) Methyl methacrylate	9.147	41	19668	7.10	ug/l	87
49) 1,4-Dioxane	9.152	88	4854	109.01	ug/l #	83
51) 4-Methyl-2-Pentanone	9.930	43	125717	34.83	ug/l	91
52) Toluene	10.099	92	44933	5.50	ug/l	100
53) t-1,3-Dichloropropene	10.333	75	26682	5.45	ug/l	94
54) cis-1,3-Dichloropropene	9.785	75	30466	5.56	ug/l #	86
55) 1,1,2-Trichloroethane	10.510	97	17582	5.43	ug/l	94
56) Ethyl methacrylate	10.383	69	24314	5.42	ug/l #	87
57) 1,3-Dichloropropane	10.657	76	30091	5.76	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.643	63	16571	25.65	ug/l	89
59) 2-Hexanone	10.708	43	58483	25.32	ug/l	88
60) Dibromochloromethane	10.850	129	18097	4.87	ug/l	99
61) 1,2-Dibromoethane	10.957	107	17906	5.43	ug/l	96
64) Tetrachloroethene	10.582	164	15257	4.65	ug/l	91
65) Chlorobenzene	11.384	112	42828	5.00	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.459	131	17359	5.16	ug/l	96
67) Ethyl Benzene	11.467	91	78881	5.35	ug/l	97
68) m/p-Xylenes	11.577	106	54205	9.67	ug/l	89
69) o-Xylene	11.901	106	29130	5.15	ug/l	93
70) Styrene	11.928	104	37044	4.20	ug/l	92
71) Bromoform	12.087	173	10249	4.00	ug/l #	99
73) Isopropylbenzene	12.205	105	74757	6.72	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.459	83	24926	7.20	ug/l	95
76) 1,2,3-Trichloropropane	12.513	75	16282m	5.62	ug/l	
77) Bromobenzene	12.489	156	13924	5.19	ug/l	65
78) n-propylbenzene	12.548	91	73494	6.42	ug/l	94
79) 2-Chlorotoluene	12.631	91	50804	6.72	ug/l	89
80) 1,3,5-Trimethylbenzene	12.690	105	58427	6.30	ug/l	95
81) trans-1,4-Dichloro-2-b...	12.280	75	3692m	4.43	ug/l	
82) 4-Chlorotoluene	12.738	91	40442	6.10	ug/l	91
83) tert-Butylbenzene	12.947	119	53178	6.14	ug/l	93
84) 1,2,4-Trimethylbenzene	12.998	105	51365	6.01	ug/l	95
85) sec-Butylbenzene	13.127	105	65641	6.27	ug/l	96
86) p-Isopropyltoluene	13.248	119	50605	5.65	ug/l	94
87) 1,3-Dichlorobenzene	13.242	146	22656	5.20	ug/l	97
88) 1,4-Dichlorobenzene	13.323	146	22779	5.03	ug/l	90
89) n-Butylbenzene	13.586	91	37045	5.33	ug/l	73
90) Hexachloroethane	13.827	117	10660	6.46	ug/l	70
91) 1,2-Dichlorobenzene	13.618	146	21233	4.71	ug/l	93
92) 1,2-Dibromo-3-Chloropr...	14.251	75	3335m	6.34	ug/l	
93) 1,2,4-Trichlorobenzene	14.886	180	9185m	4.09	ug/l	
94) Hexachlorobutadiene	14.964	225	6346	4.20	ug/l	100
95) Naphthalene	15.106	128	18634	3.84	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.275	180	8988	4.32	ug/l	93

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

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

MMDadoda
5/24/2021 3:52:42 PM

TIC: VN067158.D\data.ms

Abundance

Time-->

Chemical compounds identified (Peak Retention Time):

- Dichlorodifluoromethane, T (2.00)
- Chloromethane, P (2.10)
- Vinyl Chloride, C (2.20)
- Bromomethane, T (2.30)
- Chloroethane, I (2.40)
- Trichlorofluoromethane, T (2.50)
- Diethyl Ether, T (2.60)
- Acrolein, T (2.70)
- Acetone, T (2.80)
- Methyl Chloride, T (2.90)
- Methyl Sulfide, T (3.00)
- Methyl Acetate, T (3.10)
- Methylene Chloride, T (3.20)
- Tert butyl alcohol, T (3.30)
- Acrylonitrile, T (3.40)
- 1,1-Dichloroethane, T (3.50)
- Isopropyl Alcohol, T (3.60)
- Ethyl Acetate, T (3.70)
- 2,2-Dichloropropane, T (3.80)
- 2,2,3-Trichloropropane, T (3.90)
- Methacrylonitrile, T (4.00)
- Chloroform, C (4.10)
- Dichloromethane, T (4.20)
- 1,2-Dichloroethane, T (4.30)
- 1,2-Dichloroethane, T (4.40)
- 1,2-Dichloroethane, T (4.50)
- 1,2-Dichloroethane, T (4.60)
- 1,2-Dichloroethane, T (4.70)
- 1,2-Dichloroethane, T (4.80)
- 1,2-Dichloroethane, T (4.90)
- 1,2-Dichloroethane, T (5.00)
- 1,2-Dichloroethane, T (5.10)
- 1,2-Dichloroethane, T (5.20)
- 1,2-Dichloroethane, T (5.30)
- 1,2-Dichloroethane, T (5.40)
- 1,2-Dichloroethane, T (5.50)
- 1,2-Dichloroethane, T (5.60)
- 1,2-Dichloroethane, T (5.70)
- 1,2-Dichloroethane, T (5.80)
- 1,2-Dichloroethane, T (5.90)
- 1,2-Dichloroethane, T (6.00)
- 1,2-Dichloroethane, T (6.10)
- 1,2-Dichloroethane, T (6.20)
- 1,2-Dichloroethane, T (6.30)
- 1,2-Dichloroethane, T (6.40)
- 1,2-Dichloroethane, T (6.50)
- 1,2-Dichloroethane, T (6.60)
- 1,2-Dichloroethane, T (6.70)
- 1,2-Dichloroethane, T (6.80)
- 1,2-Dichloroethane, T (6.90)
- 1,2-Dichloroethane, T (7.00)
- 1,2-Dichloroethane, T (7.10)
- 1,2-Dichloroethane, T (7.20)
- 1,2-Dichloroethane, T (7.30)
- 1,2-Dichloroethane, T (7.40)
- 1,2-Dichloroethane, T (7.50)
- 1,2-Dichloroethane, T (7.60)
- 1,2-Dichloroethane, T (7.70)
- 1,2-Dichloroethane, T (7.80)
- 1,2-Dichloroethane, T (7.90)
- 1,2-Dichloroethane, T (8.00)
- 1,2-Dichloroethane, T (8.10)
- 1,2-Dichloroethane, T (8.20)
- 1,2-Dichloroethane, T (8.30)
- 1,2-Dichloroethane, T (8.40)
- 1,2-Dichloroethane, T (8.50)
- 1,2-Dichloroethane, T (8.60)
- 1,2-Dichloroethane, T (8.70)
- 1,2-Dichloroethane, T (8.80)
- 1,2-Dichloroethane, T (8.90)
- 1,2-Dichloroethane, T (9.00)
- 1,2-Dichloroethane, T (9.10)
- 1,2-Dichloroethane, T (9.20)
- 1,2-Dichloroethane, T (9.30)
- 1,2-Dichloroethane, T (9.40)
- 1,2-Dichloroethane, T (9.50)
- 1,2-Dichloroethane, T (9.60)
- 1,2-Dichloroethane, T (9.70)
- 1,2-Dichloroethane, T (9.80)
- 1,2-Dichloroethane, T (9.90)
- 1,2-Dichloroethane, T (10.00)
- 1,2-Dichloroethane, T (10.10)
- 1,2-Dichloroethane, T (10.20)
- 1,2-Dichloroethane, T (10.30)
- 1,2-Dichloroethane, T (10.40)
- 1,2-Dichloroethane, T (10.50)
- 1,2-Dichloroethane, T (10.60)
- 1,2-Dichloroethane, T (10.70)
- 1,2-Dichloroethane, T (10.80)
- 1,2-Dichloroethane, T (10.90)
- 1,2-Dichloroethane, T (11.00)
- 1,2-Dichloroethane, T (11.10)
- 1,2-Dichloroethane, T (11.20)
- 1,2-Dichloroethane, T (11.30)
- 1,2-Dichloroethane, T (11.40)
- 1,2-Dichloroethane, T (11.50)
- 1,2-Dichloroethane, T (11.60)
- 1,2-Dichloroethane, T (11.70)
- 1,2-Dichloroethane, T (11.80)
- 1,2-Dichloroethane, T (11.90)
- 1,2-Dichloroethane, T (12.00)
- 1,2-Dichloroethane, T (12.10)
- 1,2-Dichloroethane, T (12.20)
- 1,2-Dichloroethane, T (12.30)
- 1,2-Dichloroethane, T (12.40)
- 1,2-Dichloroethane, T (12.50)
- 1,2-Dichloroethane, T (12.60)
- 1,2-Dichloroethane, T (12.70)
- 1,2-Dichloroethane, T (12.80)
- 1,2-Dichloroethane, T (12.90)
- 1,2-Dichloroethane, T (13.00)
- 1,2-Dichloroethane, T (13.10)
- 1,2-Dichloroethane, T (13.20)
- 1,2-Dichloroethane, T (13.30)
- 1,2-Dichloroethane, T (13.40)
- 1,2-Dichloroethane, T (13.50)
- 1,2-Dichloroethane, T (13.60)
- 1,2-Dichloroethane, T (13.70)
- 1,2-Dichloroethane, T (13.80)
- 1,2-Dichloroethane, T (13.90)
- 1,2-Dichloroethane, T (14.00)
- 1,2-Dichloroethane, T (14.10)
- 1,2-Dichloroethane, T (14.20)
- 1,2-Dichloroethane, T (14.30)
- 1,2-Dichloroethane, T (14.40)
- 1,2-Dichloroethane, T (14.50)
- 1,2-Dichloroethane, T (14.60)
- 1,2-Dichloroethane, T (14.70)
- 1,2-Dichloroethane, T (14.80)
- 1,2-Dichloroethane, T (14.90)
- 1,2-Dichloroethane, T (15.00)
- 1,2-Dichloroethane, T (15.10)
- 1,2-Dichloroethane, T (15.20)
- 1,2-Dichloroethane, T (15.30)
- 1,2-Dichloroethane, T (15.40)
- 1,2-Dichloroethane, T (15.50)
- 1,2-Dichloroethane, T (15.60)
- 1,2-Dichloroethane, T (15.70)
- 1,2-Dichloroethane, T (15.80)
- 1,2-Dichloroethane, T (15.90)
- 1,2-Dichloroethane, T (16.00)