

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081019\
 Data File : VN057164.D
 Acq On : 10 Aug 2019 9:50
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 8/12/2019 3:55:19 PM

Quant Time: Aug 11 03:41:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N081019W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sun Aug 11 03:32:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.58	128	167661	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.01	114	899373	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.90	117	739078	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.44	65	324978	29.74	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.13%
60) 4-Bromofluorobenzene	11.92	95	286239	26.01	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	86.70%
63) Toluene-d8	9.56	98	1085021	31.80	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	106.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.82	85	39351	4.303 ug/l	95
3) Chloromethane	2.00	50	50088	4.728 ug/l	99
4) Vinyl Chloride	2.11	62	51621	4.790 ug/l	95
5) Bromomethane	2.43	94	39532	5.149 ug/l	96
6) Chloroethane	2.55	64	35086	5.021 ug/l	95
7) Trichlorofluoromethane	2.82	101	79914	4.973 ug/l	99
8) Diethyl Ether	3.14	74	30117	5.029 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.44	101	51913	5.341 ug/l	87
10) 1,1-Dichloroethene	3.43	96	48470	5.043 ug/l	95
11) Methyl Iodide	3.63	142	64145	4.277 ug/l	95
12) Methyl Acetate	3.90	43	56830	5.677 ug/l	99
13) Acrolein	3.31	56	27819	25.197 ug/l	99
14) Acrylonitrile	4.45	53	100344	24.024 ug/l #	87
15) Acetone	3.48	58	31629	22.817 ug/l	91
16) Carbon Disulfide	3.72	76	126769	4.889 ug/l	96
17) Allyl chloride	3.91	41	74119	5.231 ug/l	98
18) Methylene Chloride	4.10	84	56673	5.201 ug/l	94
19) trans-1,2-Dichloroethene	4.51	96	54049	5.246 ug/l	92
20) Diisopropyl ether	5.32	45	148793	5.149 ug/l	93
21) 1,1-Dichloroethane	5.24	63	94653	5.259 ug/l	100
22) cis-1,2-Dichloroethene	6.21	96	60155	5.130 ug/l #	91
23) tert-Butyl Alcohol	4.24	59	32247	23.396 ug/l #	100
24) Methyl tert-Butyl Ether	4.49	73	138931	4.916 ug/l	97
25) Chloroform	6.76	83	99720	5.389 ug/l	97
26) Cyclohexane	7.07	56	77878	5.062 ug/l #	99
29) 1,1-Dichloropropene	7.20	75	68283	5.049 ug/l	97
30) 2-Butanone	6.20	43	128888	24.205 ug/l #	94
31) 2,2-Dichloropropane	6.21	77	74391	5.144 ug/l	96
32) 1,1,1-Trichloroethane	6.98	97	81396	5.197 ug/l	99
33) Carbon Tetrachloride	7.18	117	70624	5.065 ug/l	95
34) Benzene	7.46	78	222942	5.400 ug/l #	86
35) Methacrylonitrile	6.55	41	24512	4.555 ug/l	96
36) 1,2-Dichloroethane	7.54	62	70241	5.326 ug/l	99
37) Trichloroethene	8.27	130	63011	5.371 ug/l	100
38) Methylcyclohexane	8.52	83	80707	5.001 ug/l	97
39) 1,2-Dichloropropane	8.56	63	56964	3.118 ug/l	98
40) Dibromomethane	8.65	93	35134	5.128 ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	8.85	83	66120	4.854	ug/l #	91
42) Vinyl Acetate	5.27	43	544297	24.588	ug/l	100
43) Ethyl Acetate	6.29	43	40551	4.129	ug/l	94
44) Isopropyl Acetate	7.56	43	90406	5.070	ug/l	97
45) 1,4-Dioxane	8.64	88	16119	96.871	ug/l	95
46) Methyl methacrylate	8.63	41	38302	4.711	ug/l	98
47) n-amyl Acetate	11.58	43	49423	3.767	ug/l	98
48) t-1,3-Dichloropropene	9.86	75	67294	4.633	ug/l	99
49) cis-1,3-Dichloropropene	9.30	75	78414	5.254	ug/l	96
50) 1,1,2-Trichloroethane	10.04	97	50350	5.142	ug/l	97
51) Ethyl methacrylate	9.90	69	62522	4.525	ug/l	99
52) 1,3-Dichloropropane	10.19	76	85156	5.218	ug/l	100
53) Dibromochloromethane	10.39	129	51522	4.670	ug/l	95
54) 1,2-Dibromoethane	10.50	107	49948	4.887	ug/l	99
55) 2-Chloroethyl vinyl ether	9.15	63	78421	20.100	ug/l	99
56) Bromoform	11.63	173	35782	4.389	ug/l	95
58) 4-Methyl-2-Pentanone	9.45	43	239509	25.226	ug/l	99
59) 2-Hexanone	10.24	43	166277	24.359	ug/l	97
61) Tetrachloroethene	10.11	164	72076	6.354	ug/l	97
62) Toluene	9.62	91	233540	5.551	ug/l	99
64) Chlorobenzene	10.93	112	135236	5.227	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.01	131	53584	5.400	ug/l	100
66) Ethyl Benzene	11.01	91	229345	5.086	ug/l	100
67) m/p-Xylenes	11.12	106	167783	9.866	ug/l	98
68) o-Xylene	11.46	106	81770	4.953	ug/l	94
69) Styrene	11.47	104	114489	4.325	ug/l	97
70) Isopropylbenzene	11.76	105	221338	4.979	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.02	83	64270	5.279	ug/l	95
72) 1,2,3-Trichloropropane	12.08	75	54158m	5.017	ug/l	
73) Bromobenzene	12.04	156	54836	4.757	ug/l	97
74) n-propylbenzene	12.11	91	202875	4.348	ug/l	98
75) 2-Chlorotoluene	12.20	91	137446	4.762	ug/l	98
76) 1,3,5-Trimethylbenzene	12.26	105	179751	5.002	ug/l	87
77) t-1,4-Dichloro-2-butene	11.82	75	14256	3.976	ug/l	88
78) 4-Chlorotoluene	12.30	91	112781	4.207	ug/l	99
79) tert-butylbenzene	12.52	119	168456	5.107	ug/l	98
80) 1,2,4-Trimethylbenzene	12.57	105	158566	4.492	ug/l	98
81) sec-Butylbenzene	12.70	105	192404	4.626	ug/l	99
82) p-Isopropyltoluene	12.82	119	163652	4.419	ug/l	100
83) 1,3-Dichlorobenzene	12.81	146	68398	3.897	ug/l	98
84) 1,4-Dichlorobenzene	12.89	146	58099	3.559	ug/l	99
85) n-Butylbenzene	13.15	91	96342	3.598	ug/l	99
86) Hexachloroethane	13.41	117	32526	4.830	ug/l	99
87) 1,2-Dichlorobenzene	13.19	146	69046	3.967	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.81	75	6477m	3.792	ug/l	
89) 1,2,4-Trichlorobenzene	14.45	180	14814	2.124	ug/l	95
90) Hexachlorobutadiene	14.55	225	39018	5.200	ug/l	95
91) Naphthalene	14.67	128	30987	2.345	ug/l	97
92) 1,2,3-Trichlorobenzene	14.84	180	13694	2.137	ug/l	88

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

