

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072419\
 Data File : VN056887.D
 Acq On : 23 Jul 2019 19:28
 Operator : JC/SP
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 7/25/2019 2:19:52 PM

Quant Time: Jul 24 03:27:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072419W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 24 02:31:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	59072	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	316957	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	270969	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	114738	28.87	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.23%
60) 4-Bromofluorobenzene	12.40	95	119487	29.03	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.77%
63) Toluene-d8	10.09	98	394018	31.60	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	105.33%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	69964	20.844	ug/l 100
3) Chloromethane	2.06	50	85487	19.328	ug/l 100
4) Vinyl Chloride	2.19	62	82397	19.007	ug/l 100
5) Bromomethane	2.56	94	49777	18.261	ug/l 100
6) Chloroethane	2.70	64	45675	18.501	ug/l 100
7) Trichlorofluoromethane	3.02	101	98948	18.043	ug/l 100
8) Diethyl Ether	3.41	74	37427	16.793	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.75	101	61881	18.069	ug/l 100
10) 1,1-Dichloroethene	3.73	96	61458	18.054	ug/l 100
11) Methyl Iodide	3.95	142	88158	19.123	ug/l 100
12) Methyl Acetate	4.33	43	71286	15.769	ug/l 100
13) Acrolein	3.60	56	43669	122.190	ug/l 100
14) Acrylonitrile	4.99	53	145536	74.782	ug/l 100
15) Acetone	3.82	58	38632	62.368	ug/l 100
16) Carbon Disulfide	4.04	76	159778	17.723	ug/l 100
17) Allyl chloride	4.32	41	99928	16.910	ug/l 100
18) Methylene Chloride	4.55	84	72181	18.069	ug/l 100
19) trans-1,2-Dichloroethene	5.04	96	64360	17.760	ug/l 100
20) Diisopropyl ether	5.95	45	213337	18.009	ug/l 100
21) 1,1-Dichloroethane	5.85	63	123200	18.158	ug/l 100
22) cis-1,2-Dichloroethene	6.83	96	76428	17.961	ug/l 100
23) tert-Butyl Alcohol	4.80	59	54027	78.856	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	182833	17.004	ug/l 100
25) Chloroform	7.37	83	119640	18.168	ug/l 100
26) Cyclohexane	7.65	56	109824	17.601	ug/l # 100
29) 1,1-Dichloropropene	7.79	75	87201	17.895	ug/l 100
30) 2-Butanone	6.84	43	178510	67.472	ug/l 100
31) 2,2-Dichloropropane	6.83	77	81437	17.315	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	96516	18.407	ug/l 100
33) Carbon Tetrachloride	7.77	117	82571	18.310	ug/l 100
34) Benzene	8.04	78	281204	18.628	ug/l 100
35) Methacrylonitrile	7.18	41	38609	17.433	ug/l 100
36) 1,2-Dichloroethane	8.12	62	87321	18.122	ug/l 100
37) Trichloroethene	8.83	130	73976	18.130	ug/l 100
38) Methylcyclohexane	9.08	83	108361	17.650	ug/l 100
39) 1,2-Dichloropropane	9.12	63	74250	18.367	ug/l 100
40) Dibromomethane	9.21	93	45534	17.765	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	86218	18.145	ug/l	100
42) Vinyl Acetate	5.90	43	788383	84.857	ug/l	100
43) Ethyl Acetate	6.94	43	71842	14.646	ug/l	100
44) Isopropyl Acetate	8.17	43	122125	15.626	ug/l	100
45) 1,4-Dioxane	9.20	88	23145	299.860	ug/l	100
46) Methyl methacrylate	9.20	41	58966	15.745	ug/l	100
47) n-amyl Acetate	12.07	43	90998	14.356	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	85993	16.591	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	103096	17.526	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	67502	17.995	ug/l	100
51) Ethyl methacrylate	10.43	69	92790	16.323	ug/l	100
52) 1,3-Dichloropropane	10.71	76	111693	17.937	ug/l	100
53) Dibromochloromethane	10.90	129	66298	17.468	ug/l	100
54) 1,2-Dibromoethane	11.00	107	66200	17.120	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	205710	76.053	ug/l	100
56) Bromoform	12.12	173	44484	16.002	ug/l	100
58) 4-Methyl-2-Pentanone	9.98	43	373290	77.532	ug/l	100
59) 2-Hexanone	10.75	43	246796	69.422	ug/l	100
61) Tetrachloroethene	10.63	164	78495	20.301	ug/l	100
62) Toluene	10.15	91	293878	18.851	ug/l	100
64) Chlorobenzene	11.43	112	174570	18.380	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	67259	19.148	ug/l	100
66) Ethyl Benzene	11.51	91	305172	18.221	ug/l	100
67) m/p-Xylenes	11.62	106	228501	36.253	ug/l	100
68) o-Xylene	11.94	106	112319	18.158	ug/l	100
69) Styrene	11.96	104	179326	17.598	ug/l	100
70) Isopropylbenzene	12.25	105	297967	18.418	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	85831	16.642	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	72973m	16.631	ug/l	100
73) Bromobenzene	12.53	156	75026	17.796	ug/l	100
74) n-propylbenzene	12.59	91	314500	17.453	ug/l	100
75) 2-Chlorotoluene	12.67	91	196608	17.986	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	249246	18.184	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	20893	14.325	ug/l	100
78) 4-Chlorotoluene	12.77	91	181266	17.195	ug/l	100
79) tert-butylbenzene	12.99	119	212900	18.175	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	246484	18.102	ug/l	100
81) sec-Butylbenzene	13.17	105	276165	17.894	ug/l	100
82) p-Isopropyltoluene	13.28	119	248201	17.741	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	114569	16.507	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	105519	15.936	ug/l	100
85) n-Butylbenzene	13.61	91	185797	16.256	ug/l	100
86) Hexachloroethane	13.87	117	40678	18.206	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	117622	16.807	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.26	75	12633	14.363	ug/l	100
89) 1,2,4-Trichlorobenzene	14.90	180	44630	12.202	ug/l	100
90) Hexachlorobutadiene	15.01	225	43551	17.759	ug/l	100
91) Naphthalene	15.13	128	113800	11.489	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	52718	13.582	ug/l	100

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

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