

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120618\
 Data File : VN052709.D
 Acq On : 6 Dec 2018 20:25
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 12/7/2018 1:13:00 PM

Quant Time: Dec 07 07:26:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	157110	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	897228	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	785990	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	317855	29.69	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.97%
60) 4-Bromofluorobenzene	12.40	95	358987	29.87	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.57%
63) Toluene-d8	10.09	98	1082079	29.69	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.97%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	169870	18.984	ug/l 99
3) Chloromethane	2.06	50	226682	19.102	ug/l 99
4) Vinyl Chloride	2.19	62	234608	19.588	ug/l 96
5) Bromomethane	2.58	94	140650	20.595	ug/l 99
6) Chloroethane	2.71	64	140722	19.757	ug/l 99
7) Trichlorofluoromethane	3.02	101	298106	20.167	ug/l 98
8) Diethyl Ether	3.42	74	112286	20.572	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	3.77	101	183790	19.614	ug/l 97
10) 1,1-Dichloroethene	3.74	96	176347	20.016	ug/l 100
11) Methyl Iodide	3.96	142	257401	21.042	ug/l 99
12) Methyl Acetate	4.33	43	164958	22.036	ug/l 98
13) Acrolein	3.61	56	71392	81.189	ug/l 100
14) Acrylonitrile	4.99	53	338944	106.265	ug/l 98
15) Acetone	3.82	58	87013	105.338	ug/l 98
16) Carbon Disulfide	4.06	76	517940	18.568	ug/l 99
17) Allyl chloride	4.33	41	298649	19.437	ug/l 98
18) Methylene Chloride	4.55	84	212092	20.791	ug/l 95
19) trans-1,2-Dichloroethene	5.05	96	191854	20.235	ug/l 97
20) Diisopropyl ether	5.95	45	654582	20.272	ug/l 99
21) 1,1-Dichloroethane	5.85	63	374968	20.375	ug/l 100
22) cis-1,2-Dichloroethene	6.83	96	222426	20.469	ug/l 98
23) tert-Butyl Alcohol	4.78	59	51992	109.576	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	490357	21.216	ug/l 98
25) Chloroform	7.37	83	368143	20.735	ug/l 99
26) Cyclohexane	7.66	56	327652	18.877	ug/l # 99
29) 1,1-Dichloropropene	7.80	75	276169	20.156	ug/l 99
30) 2-Butanone	6.84	43	381690	104.107	ug/l 98
31) 2,2-Dichloropropane	6.82	77	247755	19.641	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	298742	20.954	ug/l 98
33) Carbon Tetrachloride	7.78	117	258394	20.714	ug/l 98
34) Benzene	8.04	78	842964	20.463	ug/l 99
35) Methacrylonitrile	7.17	41	80035	17.595	ug/l 97
36) 1,2-Dichloroethane	8.12	62	258239	20.687	ug/l 99
37) Trichloroethene	8.84	130	220749	21.133	ug/l 95
38) Methylcyclohexane	9.08	83	317270	18.706	ug/l 99
39) 1,2-Dichloropropane	9.12	63	224265	20.309	ug/l 96
40) Dibromomethane	9.21	93	128780	21.581	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	273703	20.760	ug/l	99
42) Vinyl Acetate	5.90	43	2022192	101.940	ug/l	99
43) Ethyl Acetate	6.93	43	171196	21.959	ug/l #	68
44) Isopropyl Acetate	8.17	43	307205	22.468	ug/l	100
45) 1,4-Dioxane	9.20	88	31734	424.258	ug/l	94
46) Methyl methacrylate	9.20	41	153266	21.589	ug/l	100
47) n-amyl Acetate	12.07	43	231006	20.377	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	261258	20.437	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	311734	20.016	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	185862	21.973	ug/l	99
51) Ethyl methacrylate	10.43	69	226464	21.317	ug/l	95
52) 1,3-Dichloropropane	10.71	76	320478	21.286	ug/l	100
53) Dibromochloromethane	10.90	129	199523	21.425	ug/l	99
54) 1,2-Dibromoethane	11.01	107	178528	21.599	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	608906	97.918	ug/l	99
56) Bromoform	12.13	173	131188	21.552	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	853036	111.947	ug/l	98
59) 2-Hexanone	10.75	43	564831	108.511	ug/l	100
61) Tetrachloroethene	10.63	164	222302	22.964	ug/l	96
62) Toluene	10.16	91	901871	20.814	ug/l	100
64) Chlorobenzene	11.43	112	557328	21.074	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	196568	21.413	ug/l	99
66) Ethyl Benzene	11.51	91	956290	20.478	ug/l	99
67) m/p-Xylenes	11.62	106	725222	41.684	ug/l	99
68) o-Xylene	11.95	106	353751	20.949	ug/l	100
69) Styrene	11.96	104	570320	20.924	ug/l	100
70) Isopropylbenzene	12.25	105	946229	21.060	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	216526	22.154	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	181825m	21.672	ug/l	
73) Bromobenzene	12.53	156	233129	21.454	ug/l	96
74) n-propylbenzene	12.59	91	1057284	20.197	ug/l	99
75) 2-Chlorotoluene	12.67	91	634698	20.888	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	763082	21.027	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	53152	20.055	ug/l	94
78) 4-Chlorotoluene	12.77	91	625247	20.605	ug/l	100
79) tert-butylbenzene	12.99	119	677950	21.451	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	755858	20.815	ug/l	99
81) sec-Butylbenzene	13.17	105	907443	20.614	ug/l	100
82) p-Isopropyltoluene	13.29	119	770034	20.543	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	398322	20.842	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	384457	20.821	ug/l	98
85) n-Butylbenzene	13.62	91	604889	18.786	ug/l	100
86) Hexachloroethane	13.88	117	131160	20.651	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	394600	21.697	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	30352	22.170	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	177048	19.759	ug/l	98
90) Hexachlorobutadiene	15.01	225	126421	21.508	ug/l	100
91) Naphthalene	15.13	128	359606	19.874	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	170952	20.703	ug/l	98

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

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