

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060619\
 Data File : VN056015.D
 Acq On : 5 Jun 2019 18:53
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 6/6/2019 10:19:25 AM

Quant Time: Jun 06 03:39:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 03:18:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	55653	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	295897	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	253035	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	105231	29.15	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.17%
60) 4-Bromofluorobenzene	12.40	95	102030	26.23	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	87.43%
63) Toluene-d8	10.09	98	354980	30.71	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.37%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	13400	5.117	ug/l 97
3) Chloromethane	2.06	50	18164	5.200	ug/l 99
4) Vinyl Chloride	2.18	62	18051	5.029	ug/l 100
5) Bromomethane	2.54	94	13167	6.105	ug/l 93
6) Chloroethane	2.68	64	11192	5.362	ug/l 97
7) Trichlorofluoromethane	3.00	101	23382	5.196	ug/l 97
8) Diethyl Ether	3.40	74	10428	5.330	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	3.74	101	14626	5.187	ug/l 96
10) 1,1-Dichloroethene	3.72	96	14229	4.860	ug/l 97
11) Methyl Iodide	3.94	142	21090	4.952	ug/l 98
12) Methyl Acetate	4.33	43	21021	5.889	ug/l 97
13) Acrolein	3.60	56	4572	10.494	ug/l 95
14) Acrylonitrile	4.99	53	38985	24.157	ug/l 97
15) Acetone	3.82	58	12157	23.820	ug/l 88
16) Carbon Disulfide	4.04	76	30450	3.797	ug/l 100
17) Allyl chloride	4.31	41	21626	4.235	ug/l 100
18) Methylene Chloride	4.54	84	17668	5.263	ug/l 98
19) trans-1,2-Dichloroethene	5.03	96	15278	4.853	ug/l 93
20) Diisopropyl ether	5.95	45	46117	4.568	ug/l 98
21) 1,1-Dichloroethane	5.84	63	27503	4.817	ug/l 98
22) cis-1,2-Dichloroethene	6.82	96	17982	4.896	ug/l 97
23) tert-Butyl Alcohol	4.82	59	16390m	23.734	ug/l
24) Methyl tert-Butyl Ether	5.05	73	46608	4.752	ug/l 99
25) Chloroform	7.37	83	27087	4.784	ug/l 94
26) Cyclohexane	7.65	56	25724	4.867	ug/l # 100
29) 1,1-Dichloropropene	7.79	75	19933	4.865	ug/l 98
30) 2-Butanone	6.84	43	52473	24.101	ug/l 100
31) 2,2-Dichloropropane	6.82	77	18538	4.068	ug/l # 77
32) 1,1,1-Trichloroethane	7.57	97	21700	4.532	ug/l # 76
33) Carbon Tetrachloride	7.77	117	18086	4.283	ug/l 96
34) Benzene	8.04	78	66285	5.201	ug/l # 71
35) Methacrylonitrile	7.17	41	6376	3.143	ug/l 91
36) 1,2-Dichloroethane	8.12	62	21640	5.251	ug/l 97
37) Trichloroethene	8.83	130	18164	5.094	ug/l 95
38) Methylcyclohexane	9.08	83	26617	5.129	ug/l 95
39) 1,2-Dichloropropane	9.12	63	16507	4.860	ug/l 98
40) Dibromomethane	9.21	93	11082	5.022	ug/l 99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060619\
 Data File : VN056015.D
 Acq On : 5 Jun 2019 18:53
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 6/6/2019 10:19:25 AM

Quant Time: Jun 06 03:39:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 03:18:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	18154	4.148	ug/l	98
42) Vinyl Acetate	5.90	43	178105	21.454	ug/l	99
43) Ethyl Acetate	6.94	43	21169	4.984	ug/l #	76
44) Isopropyl Acetate	8.17	43	30474	4.390	ug/l	97
45) 1,4-Dioxane	9.21	88	6548	97.231	ug/l #	92
46) Methyl methacrylate	9.20	41	16144	4.970	ug/l	94
47) n-amyl Acetate	12.07	43	23503	4.107	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	17075	3.574	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	21558	4.061	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	16551	5.151	ug/l	99
51) Ethyl methacrylate	10.43	69	23737	4.665	ug/l	98
52) 1,3-Dichloropropane	10.71	76	26288	4.980	ug/l	97
53) Dibromochloromethane	10.90	129	13232	3.642	ug/l	95
54) 1,2-Dibromoethane	11.01	107	16578	4.987	ug/l	97
55) 2-Chloroethyl vinyl ether	9.70	63	36967	19.035	ug/l	99
56) Bromoform	12.13	173	8715	3.007	ug/l #	97
58) 4-Methyl-2-Pentanone	9.99	43	100027	24.455	ug/l	99
59) 2-Hexanone	10.75	43	69625	23.767	ug/l	99
61) Tetrachloroethene	10.63	164	19375	5.639	ug/l	99
62) Toluene	10.15	91	73845	5.442	ug/l	100
64) Chlorobenzene	11.43	112	42602	5.180	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	14518	4.489	ug/l	98
66) Ethyl Benzene	11.51	91	74681	5.063	ug/l	98
67) m/p-Xylenes	11.62	106	56275	10.035	ug/l	99
68) o-Xylene	11.95	106	27837	5.029	ug/l	96
69) Styrene	11.96	104	40309	4.428	ug/l	99
70) Isopropylbenzene	12.25	105	73357	5.061	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.50	83	21629	4.873	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	20164m	5.307	ug/l	
73) Bromobenzene	12.53	156	18052	4.709	ug/l	98
74) n-propylbenzene	12.59	91	69250	4.463	ug/l	99
75) 2-Chlorotoluene	12.67	91	46914	4.939	ug/l	97
76) 1,3,5-Trimethylbenzene	12.73	105	57901	4.848	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	3762	2.650	ug/l	75
78) 4-Chlorotoluene	12.77	91	38131	4.253	ug/l	96
79) tert-butylbenzene	12.99	119	55706	5.314	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	53576	4.538	ug/l	99
81) sec-Butylbenzene	13.17	105	63351	4.752	ug/l	99
82) p-Isopropyltoluene	13.29	119	54328	4.448	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	23841	3.991	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	21951	3.872	ug/l	99
85) n-Butylbenzene	13.61	91	35201	3.751	ug/l	100
86) Hexachloroethane	13.87	117	7741	3.383	ug/l	94
87) 1,2-Dichlorobenzene	13.65	146	26586	4.419	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	14.27	75	2747	3.435	ug/l	89
89) 1,2,4-Trichlorobenzene	14.91	180	7570	2.379	ug/l	99
90) Hexachlorobutadiene	15.01	225	11005	4.622	ug/l	97
91) Naphthalene	15.13	128	22563	2.603	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	9686	2.906	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060619\
Data File : VN056015.D
Acq On : 5 Jun 2019 18:53
Operator : JC/SP
Sample : VSTDICC005
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

MMDadoda
6/6/2019 10:19:25 AM

Quant Time: Jun 06 03:39:42 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jun 06 03:18:25 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

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

