

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051524\
 Data File : VX041537.D
 Acq On : 15 May 2024 14:01
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX051524

Quant Time: May 16 05:17:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 16 05:13:13 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John
 Carlone

05/16/2024
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	4.898	128	30921	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	172628	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	163085	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	71465	29.349	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.833%
60) 4-Bromofluorobenzene	11.079	95	77220	30.331	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	101.100%
63) Toluene-d8	8.647	98	207243	29.645	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.833%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	33535	20.735	ug/l	99
3) Chloromethane	1.295	50	36034	20.346	ug/l	99
4) Vinyl Chloride	1.374	62	34274	18.381	ug/l	100
5) Bromomethane	1.599	94	21238	17.908	ug/l	100
6) Chloroethane	1.666	64	18471	19.593	ug/l	97
7) Trichlorofluoromethane	1.868	101	55766	19.703	ug/l	99
8) Diethyl Ether	2.136	74	20485	19.381	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.319	101	35477	21.616	ug/l	98
10) 1,1-Dichloroethene	2.313	96	33842	21.392	ug/l	97
11) Methyl Iodide	2.447	142	34080	18.087	ug/l	99
12) Methyl Acetate	2.703	43	48414	20.320	ug/l	96
13) Acrolein	2.239	56	28754	99.132	ug/l	99
14) Acrylonitrile	3.069	53	103671	98.967	ug/l	98
15) Acetone	2.386	58	31540	112.374	ug/l	100
16) Carbon Disulfide	2.502	76	74738	20.924	ug/l	100
17) Allyl chloride	2.660	41	57425	20.454	ug/l	98
18) Methylene Chloride	2.788	84	38329	20.371	ug/l	97
19) trans-1,2-Dichloroethene	3.081	96	34565	19.054	ug/l	97
20) Diisopropyl ether	3.764	45	114926	19.483	ug/l	95
21) 1,1-Dichloroethane	3.605	63	64044	19.345	ug/l	98
22) cis-1,2-Dichloroethene	4.483	96	42289	19.184	ug/l	99
23) tert-Butyl Alcohol	2.995	59	47450	106.739	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	115700	19.589	ug/l	100
25) Chloroform	5.093	83	67761	19.213	ug/l	98
26) Cyclohexane	5.458	56	53912	19.529	ug/l #	99
29) 1,1-Dichloropropene	5.684	75	45220	19.803	ug/l	99
30) 2-Butanone	4.562	43	156678	103.369	ug/l	99
31) 2,2-Dichloropropane	4.465	77	54052	20.168	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	60488	19.741	ug/l	99
33) Carbon Tetrachloride	5.672	117	52165	19.897	ug/l	97
34) Benzene	6.031	78	142325	19.735	ug/l	99
35) Methacrylonitrile	4.922	41	31612	20.675	ug/l	98
36) 1,2-Dichloroethane	6.086	62	54081	20.095	ug/l	100
37) Trichloroethene	7.123	130	39212	19.514	ug/l	100
38) Methylcyclohexane	7.379	83	58984	20.343	ug/l	99
39) 1,2-Dichloropropane	7.428	63	34288	20.113	ug/l	99
40) Dibromomethane	7.580	93	26866	20.024	ug/l	98
41) Bromodichloromethane	7.818	83	48519	19.262	ug/l	95
42) Vinyl Acetate	3.721	43	524223	99.684	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	55736	19.058	ug/l	99
44) Isopropyl Acetate	6.342	43	87884	19.879	ug/l	100
45) 1,4-Dioxane	7.665	88	20285m	406.864	ug/l	
46) Methyl methacrylate	7.696	41	44565	20.261	ug/l	98
47) n-amyl Acetate	10.842	43	79096	19.730	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	48808	19.295	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	53752	19.618	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	36412	19.508	ug/l	95
51) Ethyl methacrylate	9.116	69	58316	19.411	ug/l	97
52) 1,3-Dichloropropane	9.305	76	61349	19.891	ug/l	100
53) Dibromochloromethane	9.519	129	41012	19.312	ug/l	100
54) 1,2-Dibromoethane	9.610	107	40305	20.364	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	115469	78.742	ug/l	100
56) Bromoform	10.799	173	32586	19.152	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	301456	101.166	ug/l	99
59) 2-Hexanone	9.433	43	241111	101.570	ug/l	99
61) Tetrachloroethene	9.275	164	40257	20.176	ug/l	92
62) Toluene	8.714	91	158670	19.553	ug/l	98
64) Chlorobenzene	10.080	112	109408	19.849	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	37423	19.182	ug/l	99
66) Ethyl Benzene	10.195	91	178710	19.832	ug/l	100
67) m/p-Xylenes	10.299	106	143452	40.711	ug/l	98
68) o-Xylene	10.640	106	69519	19.600	ug/l	99
69) Styrene	10.653	104	116840	19.647	ug/l	99
70) Isopropylbenzene	10.964	105	181830	20.288	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	61011	19.816	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	56908m	20.495	ug/l	
73) Bromobenzene	11.195	156	52732	20.024	ug/l	99
74) n-propylbenzene	11.305	91	205502	20.334	ug/l	99
75) 2-Chlorotoluene	11.366	91	126802	19.980	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	153512	20.067	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	16187	18.547	ug/l	95
78) 4-Chlorotoluene	11.451	91	142087	19.657	ug/l	98
79) tert-butylbenzene	11.713	119	161773	19.869	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	153651	20.039	ug/l	99
81) sec-Butylbenzene	11.890	105	190285	20.000	ug/l	100
82) p-Isopropyltoluene	12.006	119	167519	20.114	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	93950	19.892	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	94968	19.900	ug/l	99
85) n-Butylbenzene	12.329	91	131503	19.622	ug/l	99
86) Hexachloroethane	12.536	117	26811	19.121	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	95081	19.724	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	13304	19.676	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	65750	20.299	ug/l	100
90) Hexachlorobutadiene	13.725	225	32798	20.755	ug/l	98
91) Naphthalene	13.774	128	194531	20.094	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	68339	20.650	ug/l	99

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

