

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN112918\
 Data File : VN052579.D
 Acq On : 29 Nov 2018 21:58
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 30 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 11/30/2018 11:11:22 AM

Quant Time: Nov 30 04:07:07 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	7.20	128	172564	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	1002343	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	869663	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	350368	29.80	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.33%
60) 4-Bromofluorobenzene	12.40	95	397850	29.92	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.73%
63) Toluene-d8	10.09	98	1211111	30.03	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.10%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.85	85	179010	18.214 ug/l	98
3) Chloromethane	2.06	50	233332	17.902 ug/l	99
4) Vinyl Chloride	2.19	62	246929	18.770 ug/l	95
5) Bromomethane	2.58	94	152480	20.328 ug/l	99
6) Chloroethane	2.71	64	151383	19.350 ug/l	100
7) Trichlorofluoromethane	3.02	101	311965	19.215 ug/l	99
8) Diethyl Ether	3.41	74	116633	19.455 ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.77	101	188987	18.362 ug/l	98
10) 1,1-Dichloroethene	3.74	96	184275	19.043 ug/l	98
11) Methyl Iodide	3.96	142	257711	19.181 ug/l	98
12) Methyl Acetate	4.33	43	158634	19.293 ug/l	98
13) Acrolein	3.61	56	82638	85.562 ug/l	99
14) Acrylonitrile	4.99	53	330172	94.245 ug/l #	80
15) Acetone	3.82	58	75106	82.781 ug/l	100
16) Carbon Disulfide	4.06	76	538686	17.583 ug/l	100
17) Allyl chloride	4.33	41	288362	17.087 ug/l	98
18) Methylene Chloride	4.55	84	215766	19.257 ug/l	96
19) trans-1,2-Dichloroethene	5.05	96	201834	19.381 ug/l	93
20) Diisopropyl ether	5.95	45	663723	18.715 ug/l	98
21) 1,1-Dichloroethane	5.85	63	381866	18.891 ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	228549	19.149 ug/l	97
23) tert-Butyl Alcohol	4.77	59	55856	107.177 ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	507959	20.009 ug/l	98
25) Chloroform	7.37	83	376625	19.313 ug/l	100
26) Cyclohexane	7.66	56	345854	18.141 ug/l #	97
29) 1,1-Dichloropropene	7.79	75	288033	18.817 ug/l	99
30) 2-Butanone	6.83	43	367753	89.787 ug/l	99
31) 2,2-Dichloropropane	6.83	77	246855	17.518 ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	305973	19.211 ug/l	97
33) Carbon Tetrachloride	7.77	117	266043	19.090 ug/l	99
34) Benzene	8.04	78	877597	19.070 ug/l	98
35) Methacrylonitrile	7.17	41	85489	16.823 ug/l	95
36) 1,2-Dichloroethane	8.13	62	265747	19.056 ug/l	99
37) Trichloroethene	8.84	130	228290	19.563 ug/l	95
38) Methylcyclohexane	9.08	83	334564	17.657 ug/l	98
39) 1,2-Dichloropropane	9.12	63	230912	18.718 ug/l	98
40) Dibromomethane	9.21	93	130434	19.566 ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	280353	19.035	ug/l	97
42) Vinyl Acetate	5.90	43	2087611	94.201	ug/l	98
43) Ethyl Acetate	6.93	43	167501	19.232	ug/l #	73
44) Isopropyl Acetate	8.17	43	326313	21.363	ug/l #	85
45) 1,4-Dioxane	9.20	88	36464	436.371	ug/l	92
46) Methyl methacrylate	9.20	41	152784	19.265	ug/l	99
47) n-amyl Acetate	12.07	43	244163	19.279	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	264305	18.508	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	320054	18.395	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	187544	19.847	ug/l	99
51) Ethyl methacrylate	10.43	69	232845	19.619	ug/l	96
52) 1,3-Dichloropropane	10.71	76	324933	19.318	ug/l	99
53) Dibromochloromethane	10.90	129	198654	19.095	ug/l	97
54) 1,2-Dibromoethane	11.01	107	183523	19.875	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	685813	98.720	ug/l	99
56) Bromoform	12.13	173	130837	19.240	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	842993	99.985	ug/l	99
59) 2-Hexanone	10.75	43	549396	95.391	ug/l	98
61) Tetrachloroethene	10.63	164	224092	20.922	ug/l	95
62) Toluene	10.16	91	938182	19.569	ug/l	99
64) Chlorobenzene	11.44	112	568866	19.440	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	201264	19.815	ug/l	99
66) Ethyl Benzene	11.51	91	991014	19.180	ug/l	99
67) m/p-Xylenes	11.62	106	751171	39.022	ug/l	99
68) o-Xylene	11.95	106	368466	19.721	ug/l	100
69) Styrene	11.97	104	587095	19.468	ug/l	100
70) Isopropylbenzene	12.25	105	981608	19.746	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	218396	20.196	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	183899m	19.810	ug/l	
73) Bromobenzene	12.53	156	241577	20.092	ug/l	95
74) n-propylbenzene	12.59	91	1099948	18.990	ug/l	99
75) 2-Chlorotoluene	12.68	91	651106	19.366	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	785851	19.571	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	51173	17.450	ug/l	98
78) 4-Chlorotoluene	12.77	91	640387	19.074	ug/l	99
79) tert-butylbenzene	12.99	119	696157	19.908	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	789331	19.646	ug/l	99
81) sec-Butylbenzene	13.17	105	929279	19.079	ug/l	100
82) p-Isopropyltoluene	13.29	119	797845	19.237	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	410572	19.416	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	397366	19.450	ug/l	99
85) n-Butylbenzene	13.62	91	632642	17.758	ug/l	99
86) Hexachloroethane	13.88	117	130187	18.526	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	401107	19.933	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	30636	20.225	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	185689	18.730	ug/l	98
90) Hexachlorobutadiene	15.01	225	125900	19.359	ug/l	99
91) Naphthalene	15.13	128	395448	19.752	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	179013	19.593	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

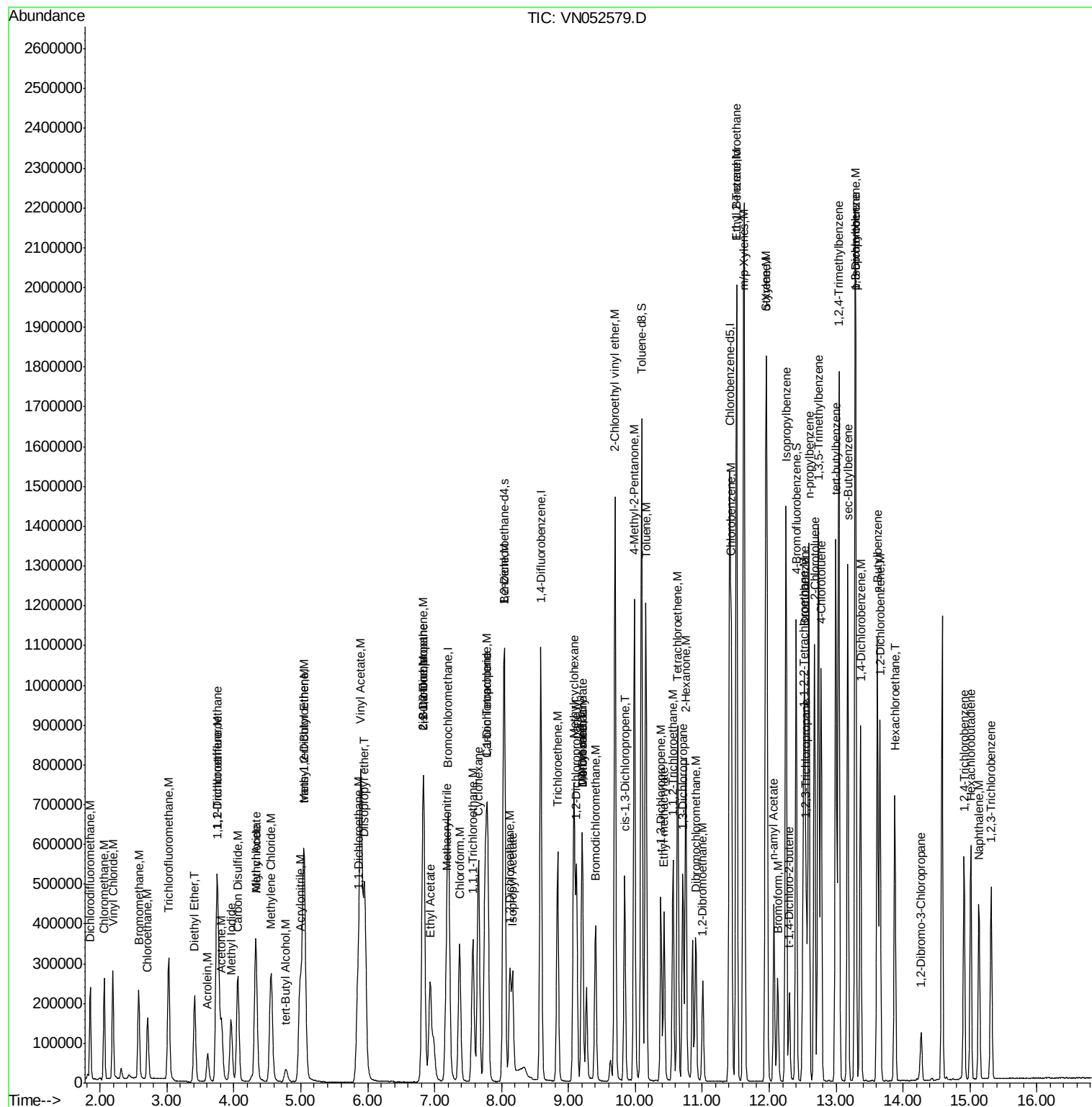
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 Data File : VN052579.D
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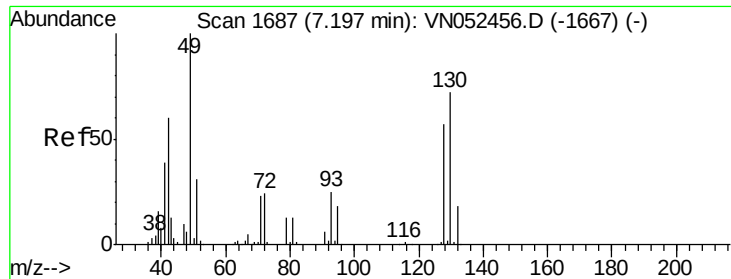
Instrument :
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN052579.D

Acq: 29 Nov 2018 21:58

Instrument :

MSVOA_N

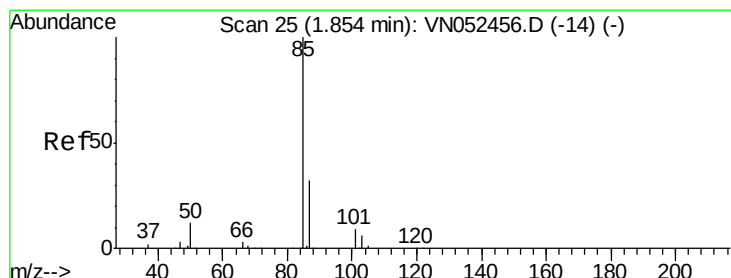
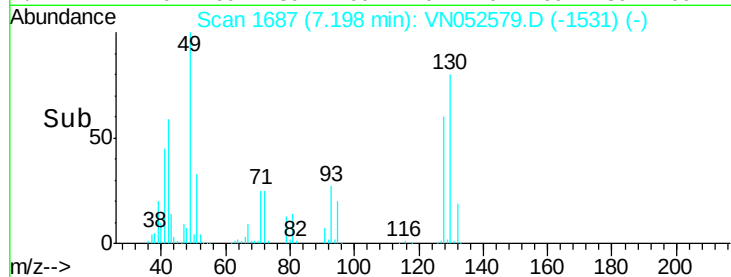
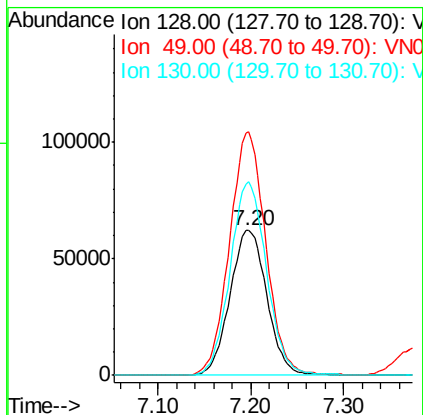
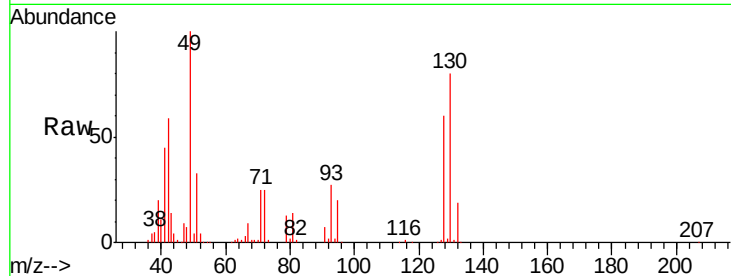
ClientSampleId :

VSTDCCC020

Tgt Ion:	128	Resp:	172564
Ion	Ratio	Lower	Upper
128	100		
49	163.9	0.0	431.8
130	131.2	0.0	317.0

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 18.214 ug/l

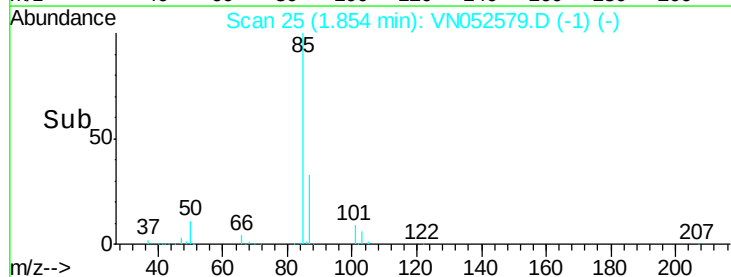
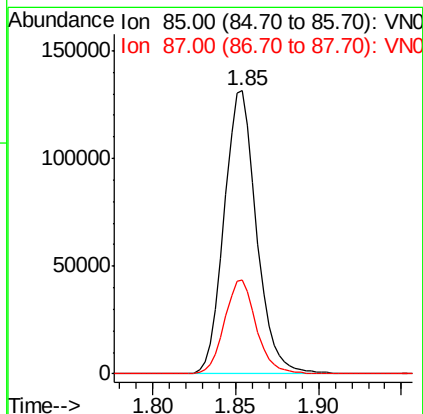
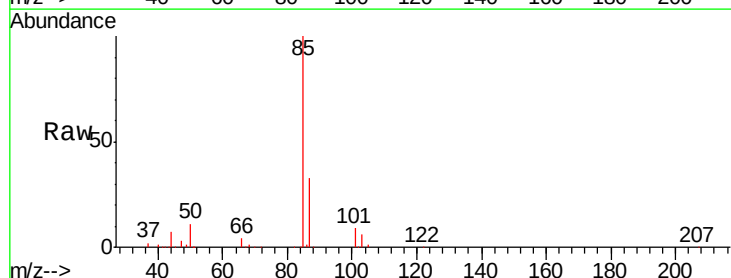
RT: 1.85 min Scan# 25

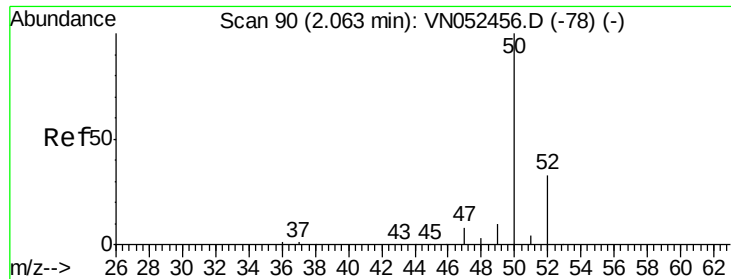
Delta R.T. 0.00 min

Lab File: VN052579.D

Acq: 29 Nov 2018 21:58

Tgt Ion:	85	Resp:	179010
Ion	Ratio	Lower	Upper
85	100		
87	33.2	16.1	48.3





#3

Chloromethane

Concen: 17.902 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN052579.D

Acq: 29 Nov 2018 21:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 50 Resp: 233332

Ion Ratio Lower Upper

50 100

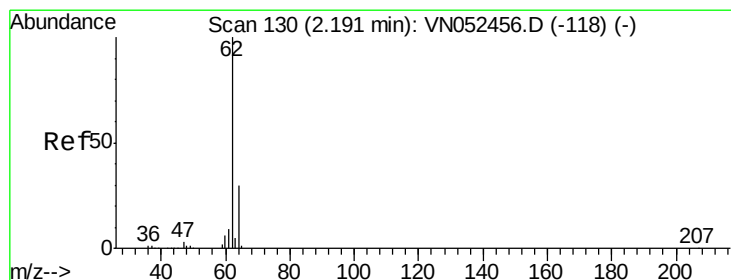
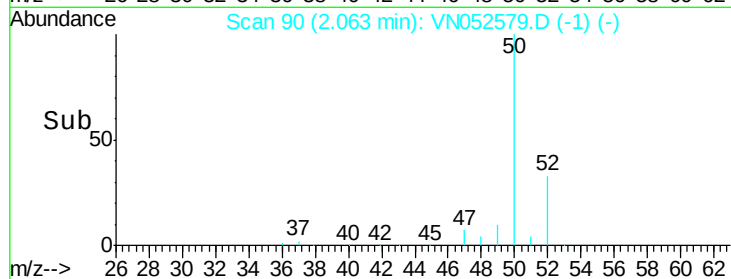
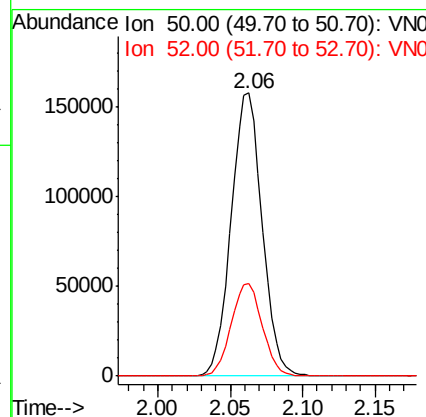
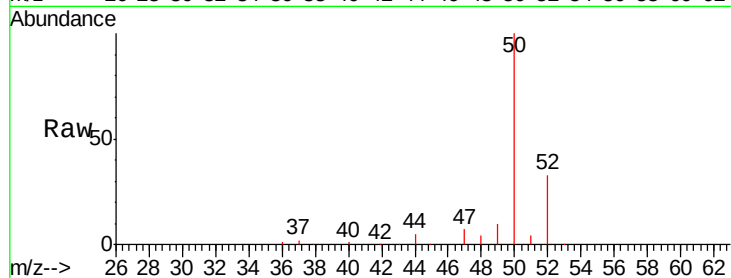
52 32.8 26.5 39.7

Manual Integrations

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#4

Vinyl Chloride

Concen: 18.770 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052579.D

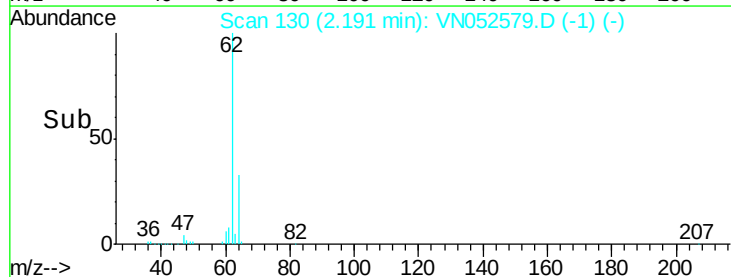
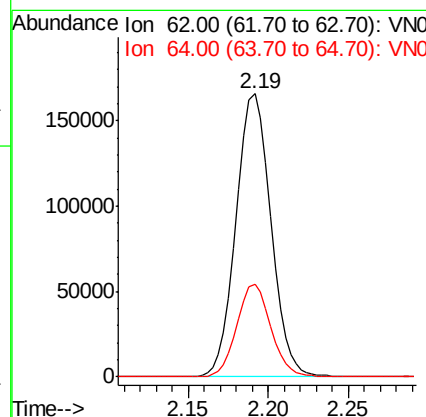
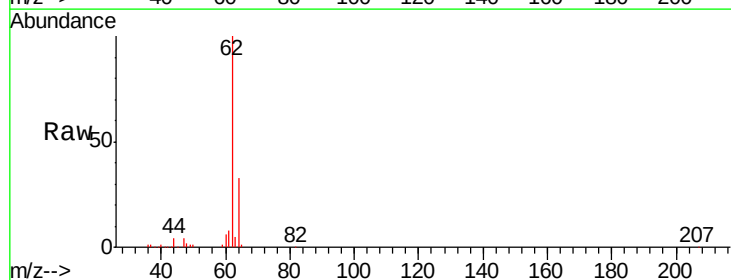
Acq: 29 Nov 2018 21:58

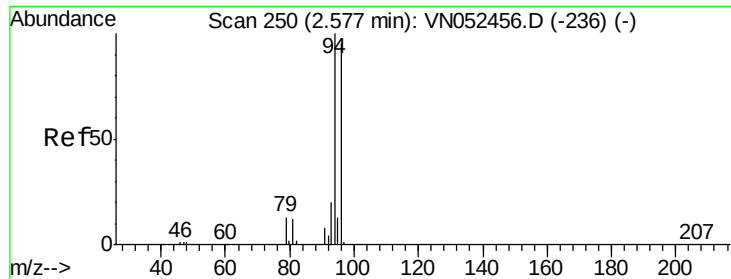
Tgt Ion: 62 Resp: 246929

Ion Ratio Lower Upper

62 100

64 32.8 24.2 36.4





#5

Bromomethane

Concen: 20.328 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN052579.D

Acq: 29 Nov 2018 21:58

Instrument :

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ClientSampleId :

VSTDCCC020

Tgt Ion: 94 Resp: 152480

Ion Ratio Lower Upper

94 100

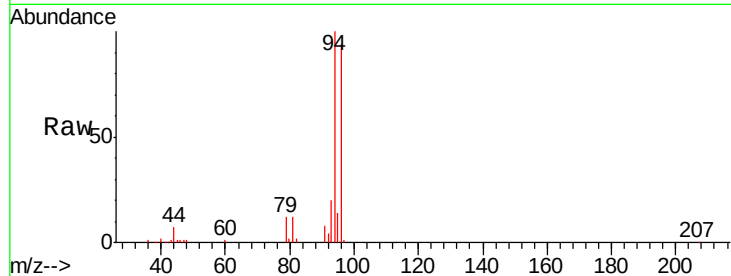
96 93.8 76.2 114.2

Manual Integrations

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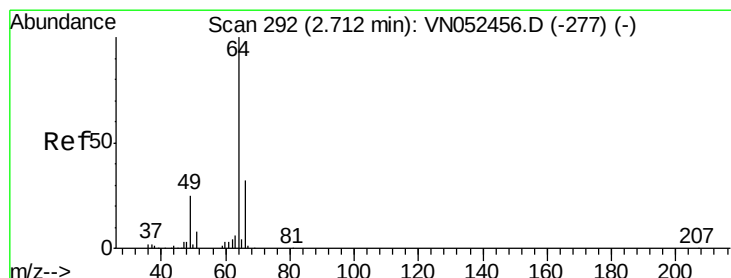
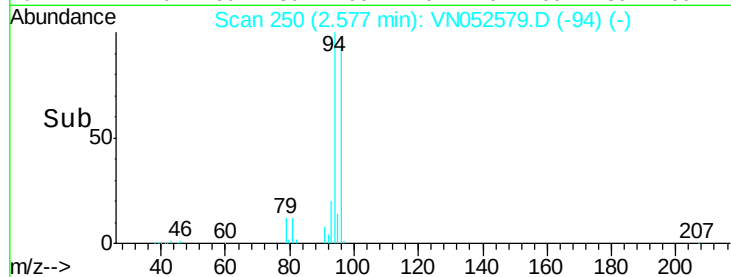
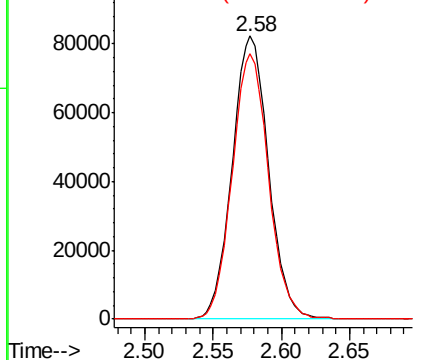
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Abundance Ion 94.00 (93.70 to 94.70): VNO

Ion 96.00 (95.70 to 96.70): VNO



#6

Chloroethane

Concen: 19.350 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN052579.D

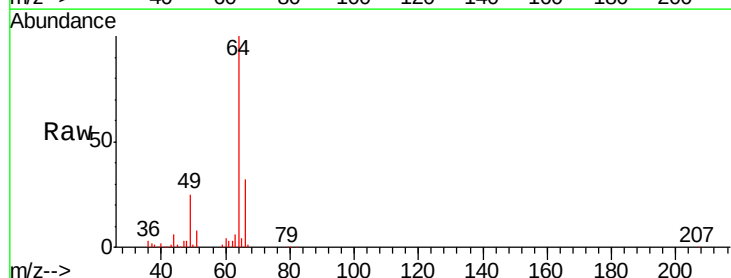
Acq: 29 Nov 2018 21:58

Tgt Ion: 64 Resp: 151383

Ion Ratio Lower Upper

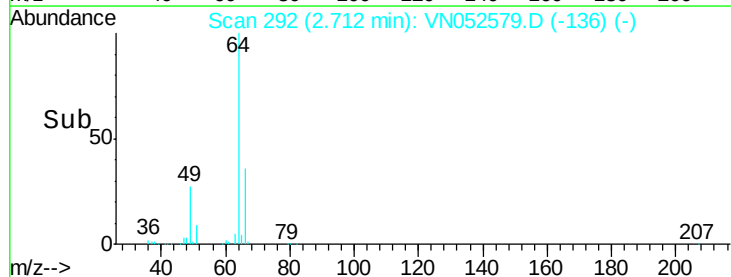
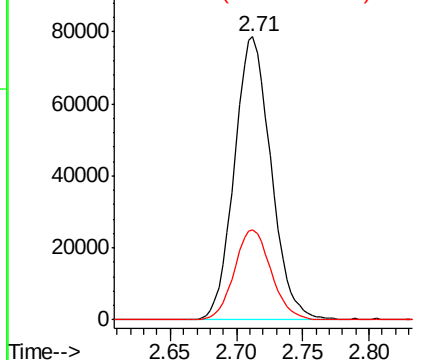
64 100

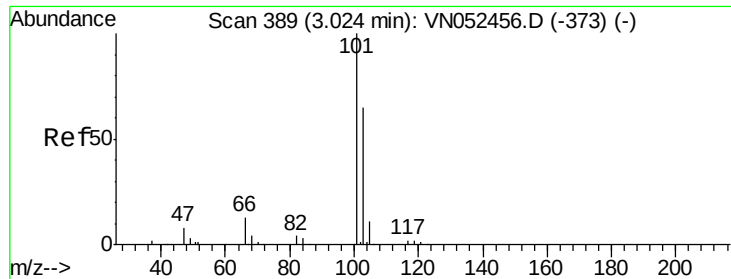
66 31.9 25.6 38.4



Abundance Ion 64.00 (63.70 to 64.70): VNO

Ion 66.00 (65.70 to 66.70): VNO





#7

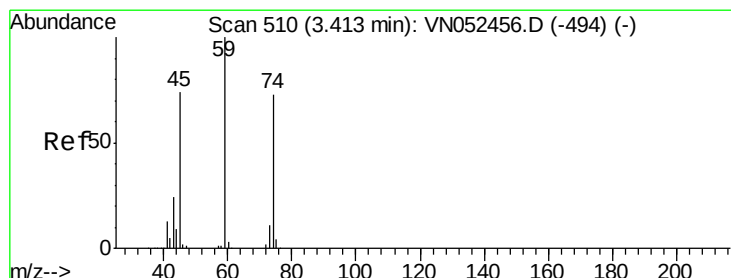
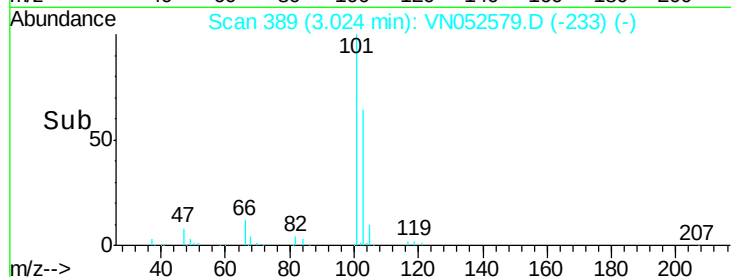
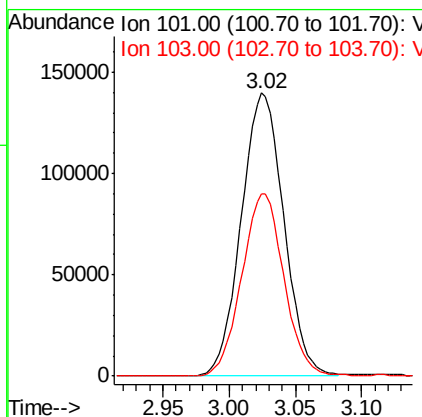
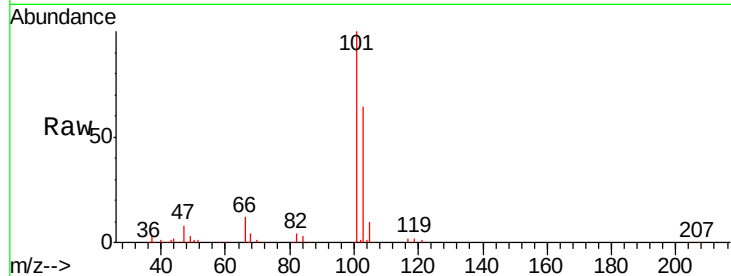
Trichlorofluoromethane
Concen: 19.215 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN052579.D
Acq: 29 Nov 2018 21:58

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Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.5	52.1	78.1

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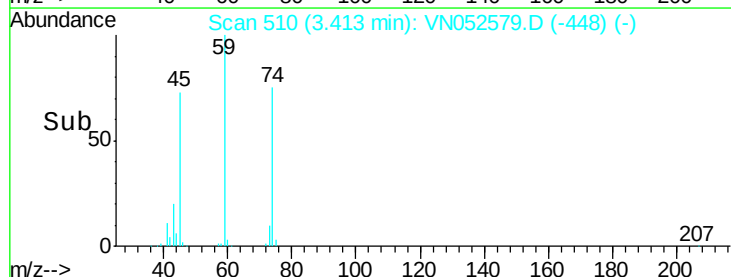
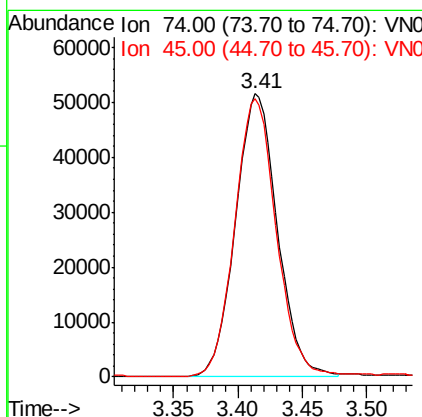
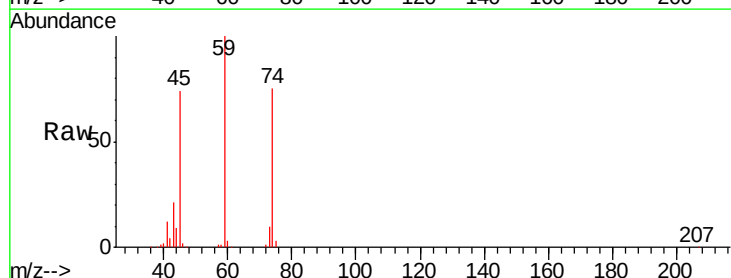
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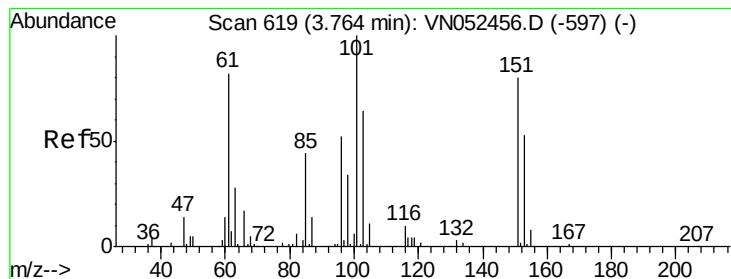


#8

Diethyl Ether
Concen: 19.455 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN052579.D
Acq: 29 Nov 2018 21:58

Tgt Ion	Ratio	Lower	Upper
74	100		
45	97.8	20.6	185.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.362 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN052579.D

Acq: 29 Nov 2018 21:58

Instrument :

MSVOA_N

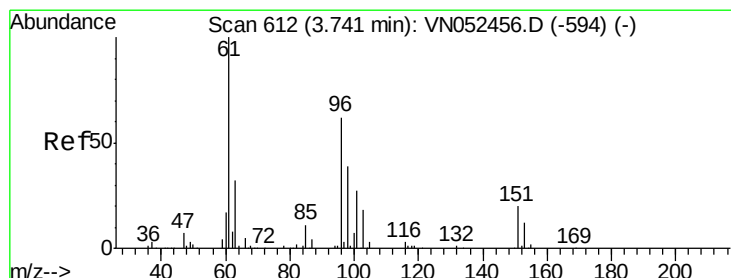
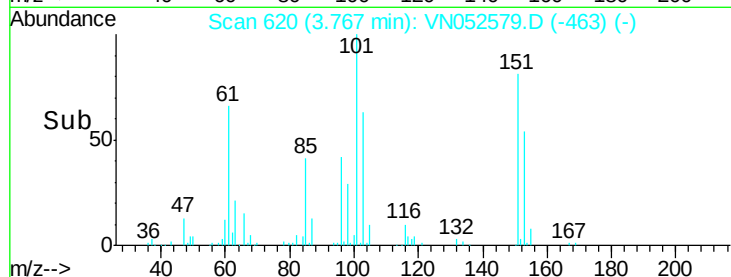
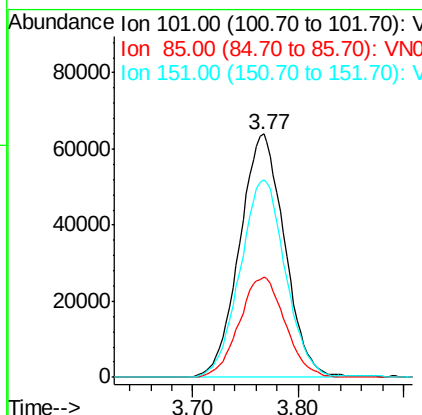
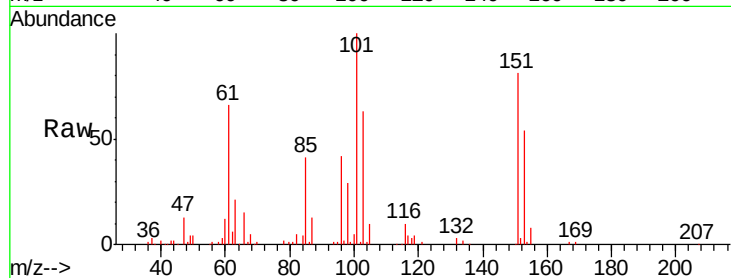
ClientSampleId :

VSTDCCC020

Tgt Ion:	101	Resp:	188987
Ion Ratio	Lower	Upper	
101	100		
85	42.1	0.0	82.6
151	81.9	0.0	158.4

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#10

1,1-Dichloroethene

Concen: 19.043 ug/l

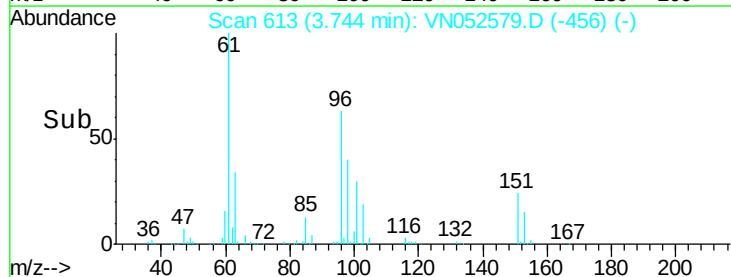
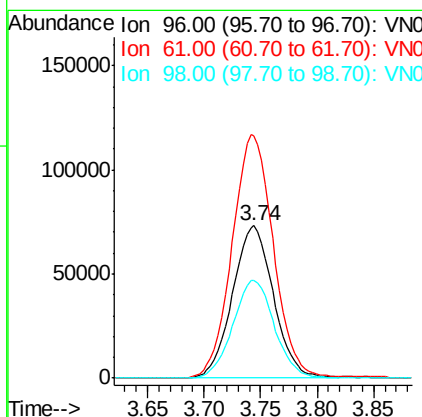
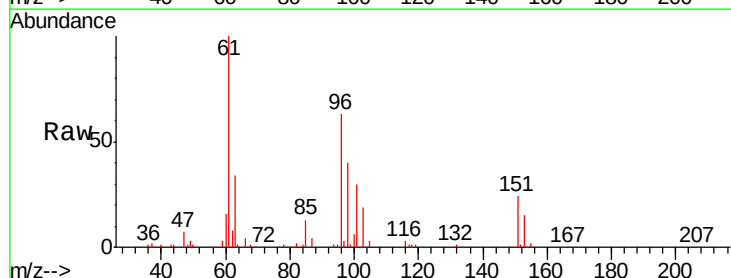
RT: 3.74 min Scan# 613

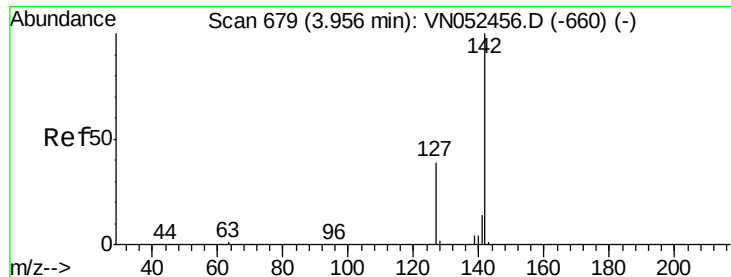
Delta R.T. 0.00 min

Lab File: VN052579.D

Acq: 29 Nov 2018 21:58

Tgt Ion:	96	Resp:	184275
Ion Ratio	Lower	Upper	
96	100		
61	158.7	129.4	194.2
98	64.1	50.4	75.6





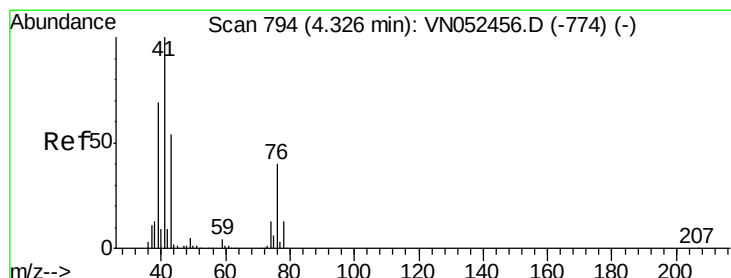
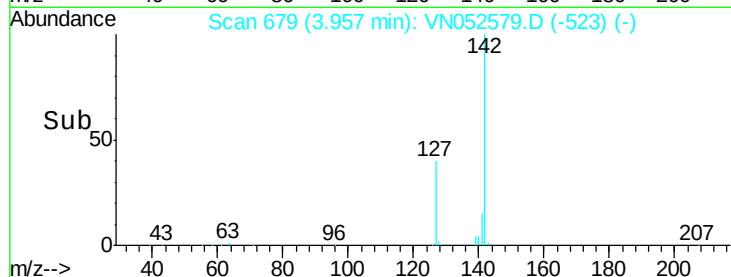
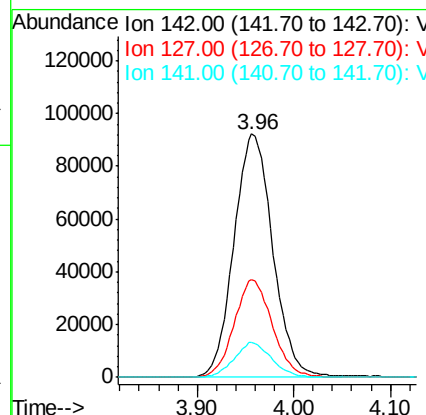
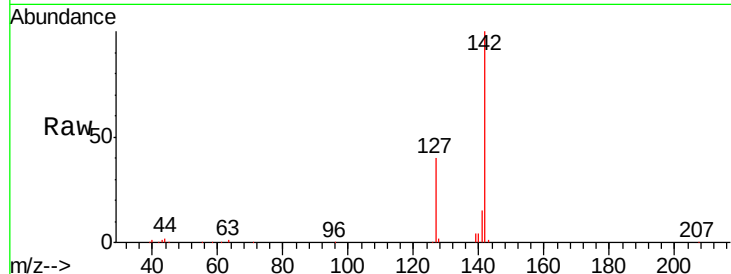
#11
Methyl Iodide
Concen: 19.181 ug/l
RT: 3.96 min Scan# 679
Delta R.T. 0.00 min
Lab File: VN052579.D
Acq: 29 Nov 2018 21:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion	Ratio	Lower	Upper
142	100		
127	40.4	19.4	58.1
141	14.6	7.2	21.6

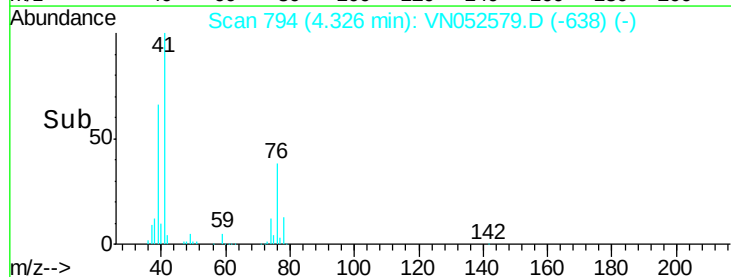
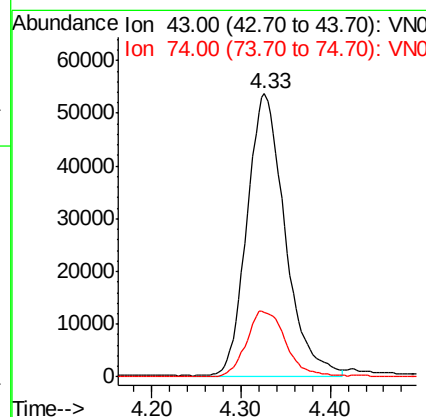
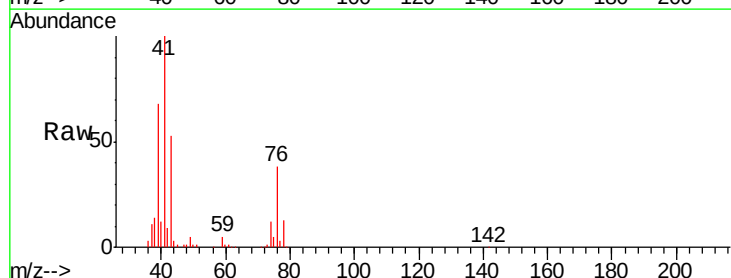
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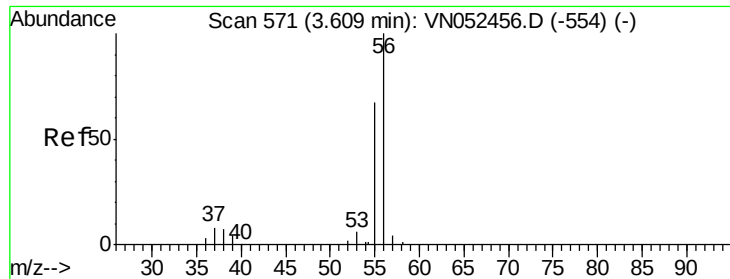
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#12
Methyl Acetate
Concen: 19.293 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN052579.D
Acq: 29 Nov 2018 21:58

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.8	18.9	28.3





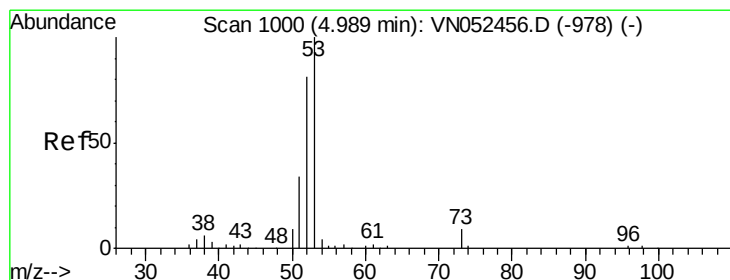
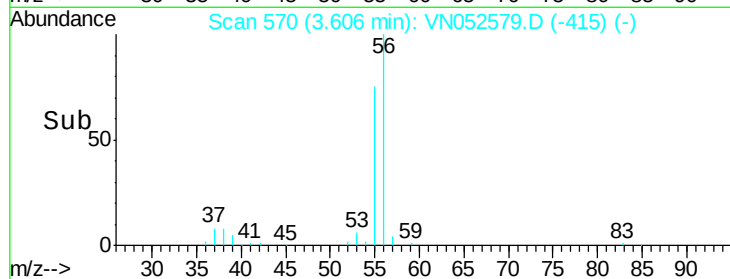
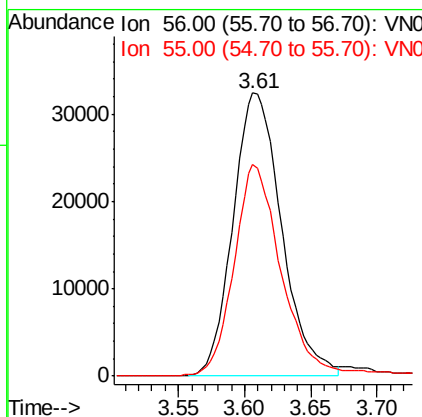
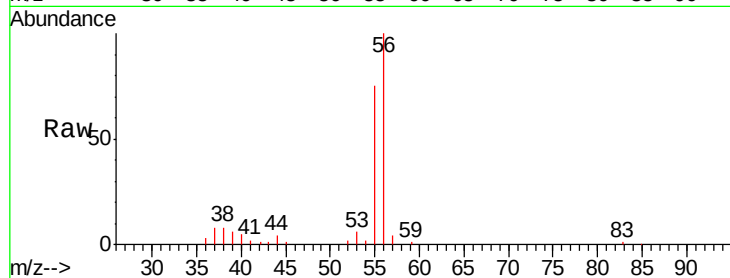
#13
Acrolein
Concen: 85.562 ug/l
RT: 3.61 min Scan# 570
Delta R.T. -0.00 min
Lab File: VN052579.D
Acq: 29 Nov 2018 21:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 56 Resp: 82638
Ion Ratio Lower Upper
56 100
55 72.0 56.7 85.1

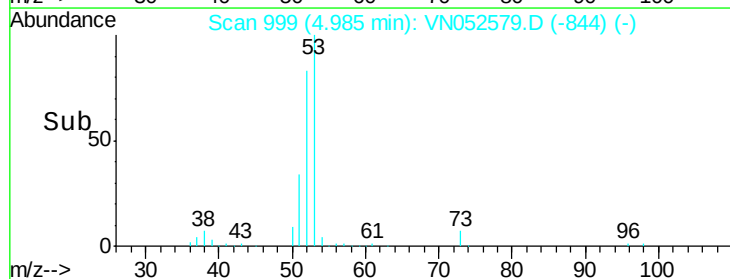
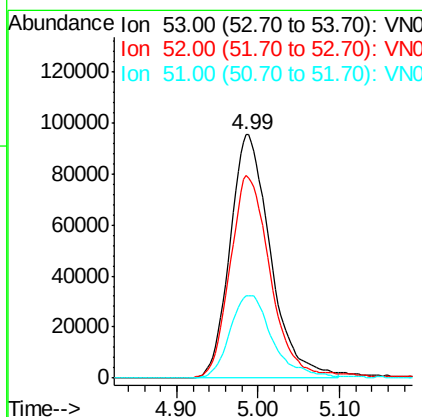
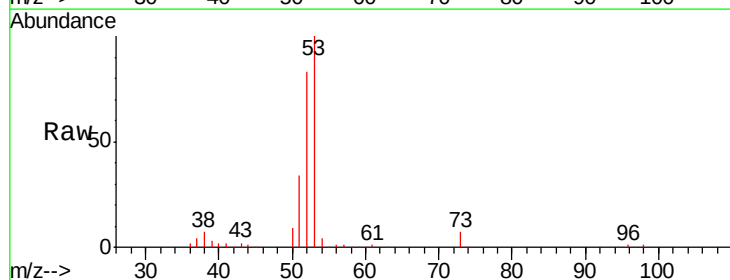
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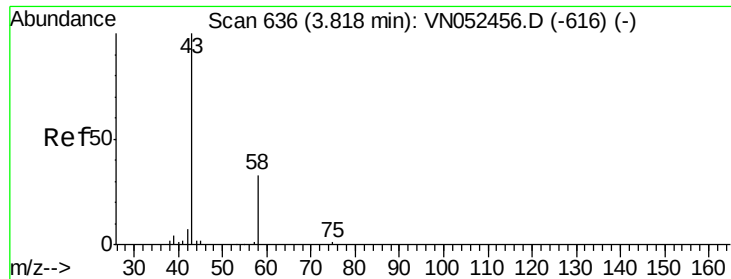
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#14
Acrylonitrile
Concen: 94.245 ug/l
RT: 4.99 min Scan# 999
Delta R.T. -0.00 min
Lab File: VN052579.D
Acq: 29 Nov 2018 21:58

Tgt Ion: 53 Resp: 330172
Ion Ratio Lower Upper
53 100
52 81.9 39.9 119.7
51 0.0 17.6 52.9#





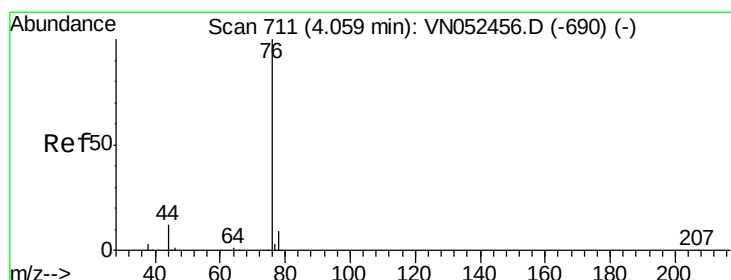
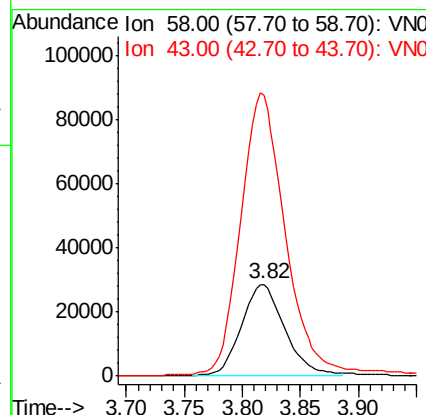
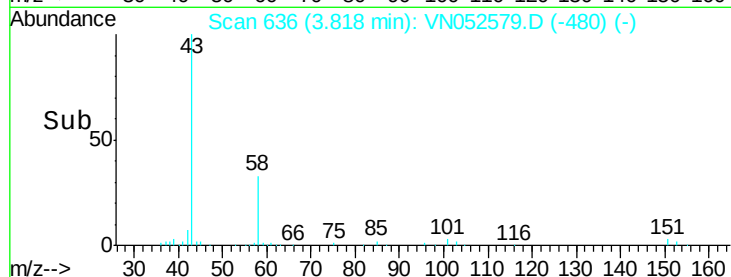
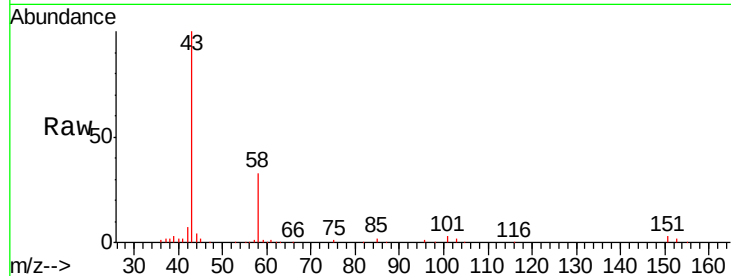
#15
Acetone
Concen: 82.781 ug/l
RT: 3.82 min Scan# 636
Delta R.T. 0.00 min
Lab File: VN052579.D
Acq: 29 Nov 2018 21:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 58 Resp: 75106
Ion Ratio Lower Upper
58 100
43 305.2 243.6 365.4

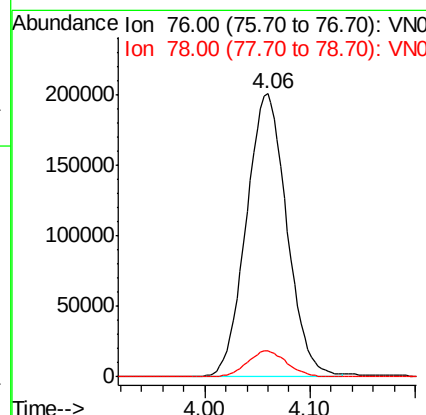
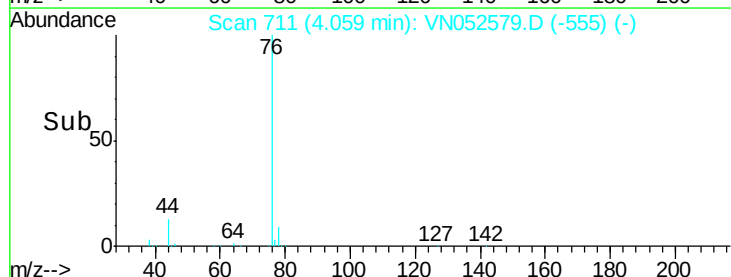
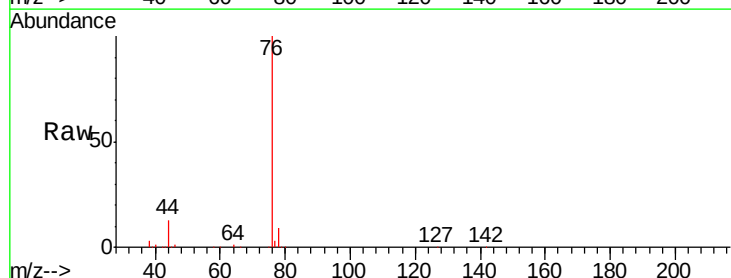
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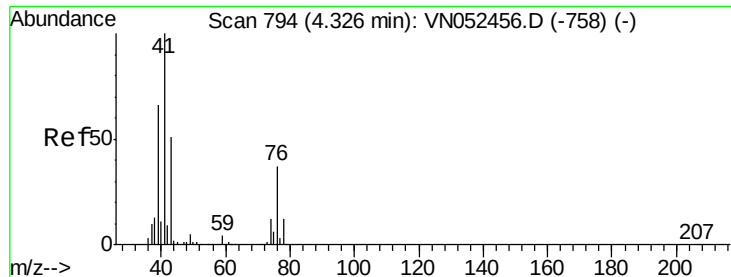
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#16
Carbon Disulfide
Concen: 17.583 ug/l
RT: 4.06 min Scan# 711
Delta R.T. 0.00 min
Lab File: VN052579.D
Acq: 29 Nov 2018 21:58

Tgt Ion: 76 Resp: 538686
Ion Ratio Lower Upper
76 100
78 9.1 7.3 10.9





#17

Allyl chloride

Concen: 17.087 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN052579.D

Acq: 29 Nov 2018 21:58

Instrument :

MSVOA_N

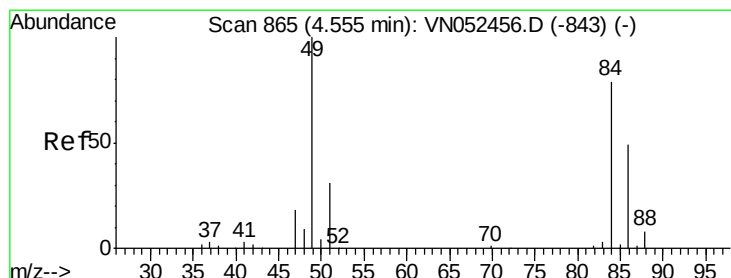
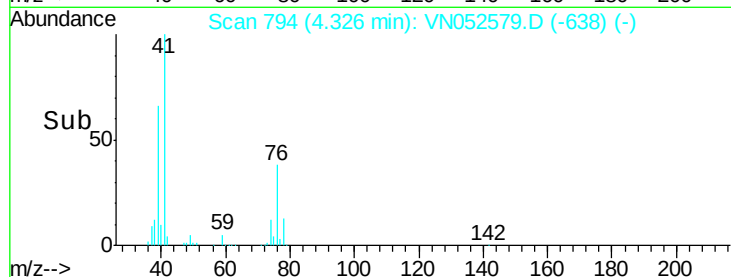
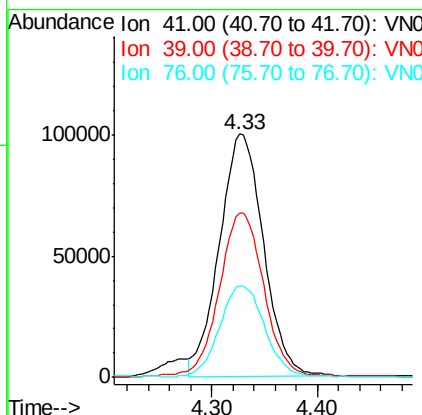
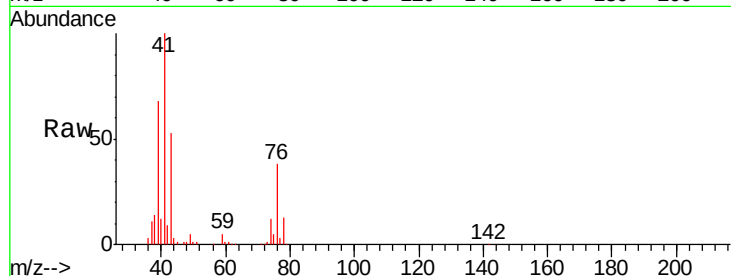
ClientSampleId :

VSTDCCC020

Tgt Ion:	41	Resp:	288362
Ion	Ratio	Lower	Upper
41	100		
39	67.5	32.8	98.3
76	37.6	18.6	55.8

Manual Integrations
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#18

Methylene Chloride

Concen: 19.257 ug/l

RT: 4.55 min Scan# 865

Delta R.T. 0.00 min

Lab File: VN052579.D

Acq: 29 Nov 2018 21:58

Tgt Ion:	84	Resp:	215766
Ion	Ratio	Lower	Upper
84	100		
49	120.7	101.4	152.0
51	36.9	31.7	47.5
86	63.4	50.1	75.1

