

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020619\
 Data File : VN053624.D
 Acq On : 6 Feb 2019 9:58
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Quant Time: Feb 07 03:36:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	692155	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1013249	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	886057	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	442840	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	391049	56.32	ug/l	0.00
Spiked Amount			Recovery	=	112.64%	
35) Dibromofluoromethane	7.59	113	376938	58.87	ug/l	0.00
Spiked Amount			Recovery	=	117.74%	
50) Toluene-d8	10.09	98	1406445	58.50	ug/l	0.00
Spiked Amount			Recovery	=	117.00%	
62) 4-Bromofluorobenzene	12.40	95	474175	59.14	ug/l	0.00
Spiked Amount			Recovery	=	118.28%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	353904	45.385	ug/l	100
3) Chloromethane	2.06	50	360160	43.830	ug/l	100
4) Vinyl Chloride	2.19	62	356288	44.665	ug/l	99
5) Bromomethane	2.57	94	233556	44.780	ug/l	97
6) Chloroethane	2.71	64	203760	44.700	ug/l	97
7) Trichlorofluoromethane	3.02	101	492082	45.491	ug/l	99
8) Diethyl Ether	3.41	74	175492	44.423	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	311970	46.633	ug/l	98
10) Methyl Iodide	3.95	142	460896	43.894	ug/l	99
11) Tert butyl alcohol	4.78	59	87928	213.967	ug/l	99
12) 1,1-Dichloroethene	3.74	96	292327	45.608	ug/l	97
13) Acrolein	3.61	56	71687	320.402	ug/l	100
14) Allyl chloride	4.33	41	463171	45.385	ug/l	99
15) Acrylonitrile	4.99	53	506642	228.374	ug/l	99
16) Acetone	3.81	43	510456	286.602	ug/l	100
17) Carbon Disulfide	4.06	76	861415	43.162	ug/l	100
18) Methyl Acetate	4.32	43	234967	44.546	ug/l	99
19) Methyl tert-butyl Ether	5.04	73	745105	45.857	ug/l	99
20) Methylene Chloride	4.55	84	325418	43.550	ug/l	98
21) trans-1,2-Dichloroethene	5.04	96	308405	44.599	ug/l	99
22) Diisopropyl ether	5.95	45	882097	46.648	ug/l	97
23) Vinyl Acetate	5.89	43	3013125	230.336	ug/l	98
24) 1,1-Dichloroethane	5.85	63	564289	44.740	ug/l	99
25) 2-Butanone	6.83	43	626852	246.774	ug/l	100
26) 2,2-Dichloropropane	6.82	77	435961	45.281	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	349810	45.494	ug/l	99
28) Bromochloromethane	7.19	49	265243	48.461	ug/l	96
29) Tetrahydrofuran	7.21	42	362374	222.161	ug/l	97
30) Chloroform	7.37	83	560849	44.858	ug/l	100
31) Cyclohexane	7.65	56	513581	43.714	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	473581	45.515	ug/l	99
36) 1,1-Dichloropropene	7.79	75	433781	47.492	ug/l	99
37) Ethyl Acetate	6.93	43	243100	47.655	ug/l	99
38) Carbon Tetrachloride	7.77	117	423108	45.983	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	518791	47.875	ug/l	99
40) Benzene	8.04	78	1309070	46.476	ug/l	100
41) Methacrylonitrile	7.17	41	147860	51.861	ug/l	95
42) 1,2-Dichloroethane	8.12	62	376239	44.988	ug/l	99
43) Isopropyl Acetate	8.16	43	427203	43.364	ug/l #	89
44) Trichloroethene	8.83	130	354664	44.229	ug/l	98
45) 1,2-Dichloropropane	9.12	63	341494	47.402	ug/l	99
46) Dibromomethane	9.21	93	197974	45.587	ug/l	98
47) Bromodichloromethane	9.40	83	425355	47.107	ug/l	100
48) Methyl methacrylate	9.20	41	208984	44.440	ug/l	94
49) 1,4-Dioxane	9.20	88	58836	868.787	ug/l	97
51) 4-Methyl-2-Pentanone	9.98	43	1114209	230.155	ug/l	99
52) Toluene	10.16	92	795169	47.568	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	428249	47.364	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	507623	47.378	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	283499	47.064	ug/l	99
56) Ethyl methacrylate	10.43	69	335846	47.130	ug/l	99
57) 1,3-Dichloropropane	10.71	76	474113	46.054	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	959980	218.271	ug/l	99
59) 2-Hexanone	10.75	43	787888	239.735	ug/l	99
60) Dibromochloromethane	10.90	129	327954	48.280	ug/l	99
61) 1,2-Dibromoethane	11.00	107	269055	45.128	ug/l	99
64) Tetrachloroethene	10.63	164	353607	46.555	ug/l	99
65) Chlorobenzene	11.43	112	869414	46.194	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	315747	48.037	ug/l	99
67) Ethyl Benzene	11.51	91	1466503	47.434	ug/l	100
68) m/p-Xylenes	11.62	106	1147752	97.269	ug/l	99
69) o-Xylene	11.95	106	552429	48.460	ug/l	99
70) Styrene	11.96	104	908623	49.176	ug/l	100
71) Bromoform	12.13	173	222886	49.461	ug/l #	99
73) Isopropylbenzene	12.25	105	1444348	46.396	ug/l	100
74) N-amyl acetate	12.07	43	341385	45.603	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	321214	43.113	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	400070	70.336	ug/l #	100
77) Bromobenzene	12.53	156	377034	44.938	ug/l	98
78) n-propylbenzene	12.59	91	1706919	47.430	ug/l	100
79) 2-Chlorotoluene	12.68	91	987571	46.254	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1259725	48.798	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	90189	44.586	ug/l	98
82) 4-Chlorotoluene	12.77	91	1020238	46.567	ug/l	100
83) tert-Butylbenzene	12.99	119	1082250	47.434	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1287152	48.939	ug/l	100
85) sec-Butylbenzene	13.17	105	1504302	48.450	ug/l	100
86) p-Isopropyltoluene	13.29	119	1329476	48.960	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	696655	46.190	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	685832	45.969	ug/l	99
89) n-Butylbenzene	13.62	91	1172080	49.868	ug/l	100
90) Hexachloroethane	13.88	117	213491	47.664	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	670019	46.403	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	47750	44.970	ug/l	98

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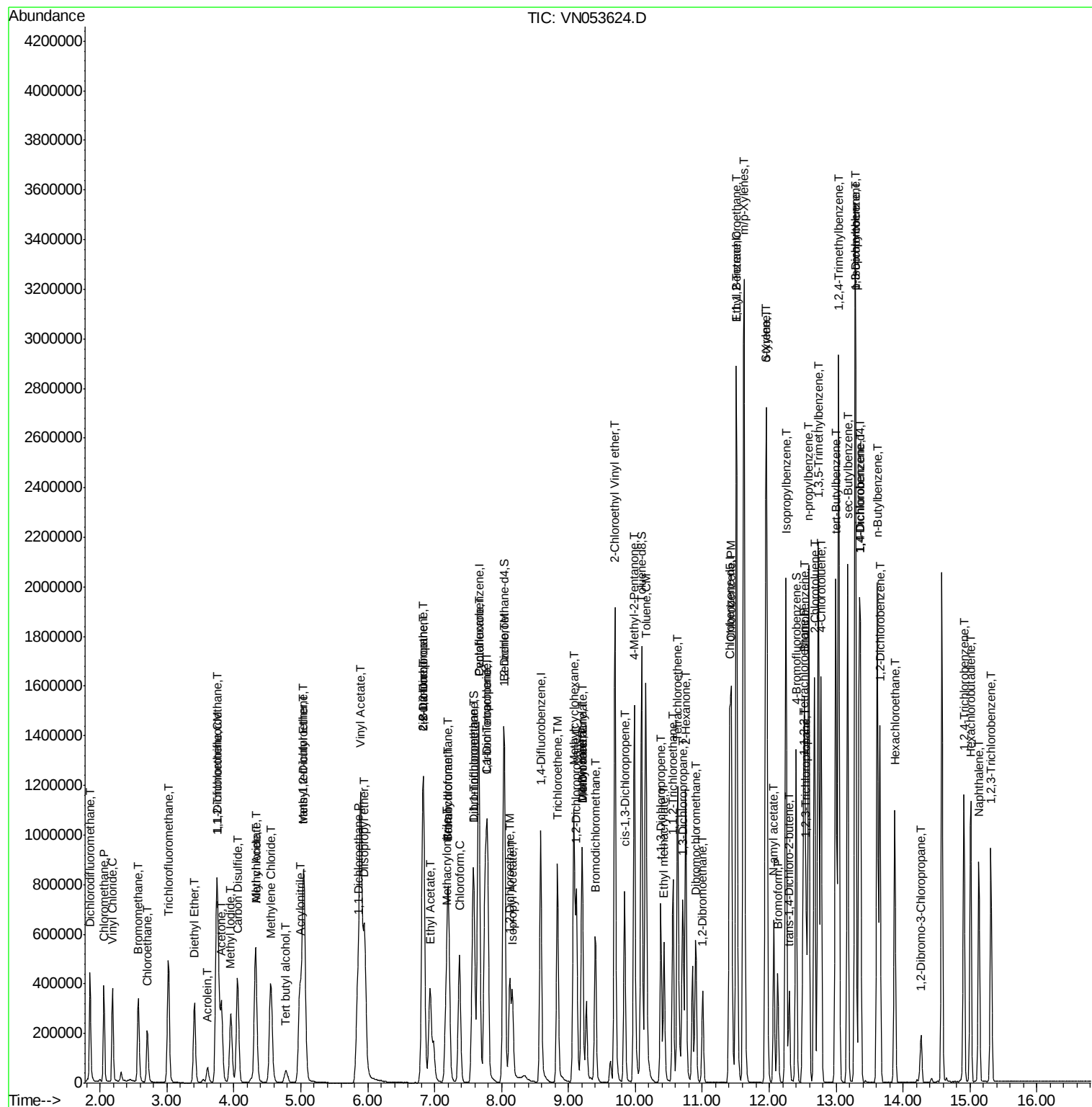
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	407091	49.158	ug/l	99
94) Hexachlorobutadiene	15.01	225	254461	49.341	ug/l	100
95) Naphthalene	15.13	128	807402	41.800	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	365847	47.612	ug/l	100

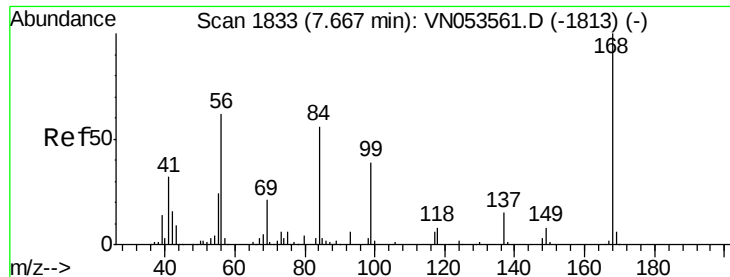
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

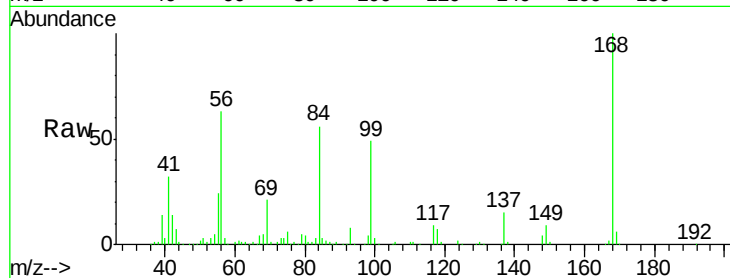
VSTDCCC050

Tot Ion:168 Resp: 692155

Ion Ratio Lower Upper

168 100

99 48.8 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

250000

200000

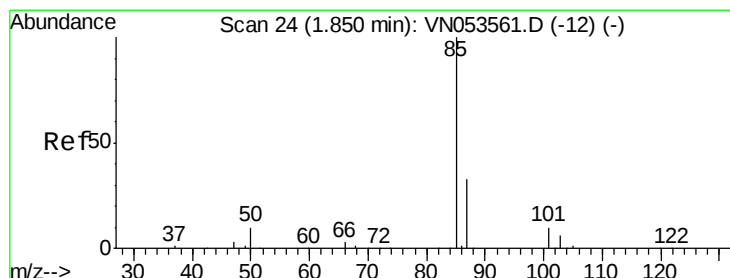
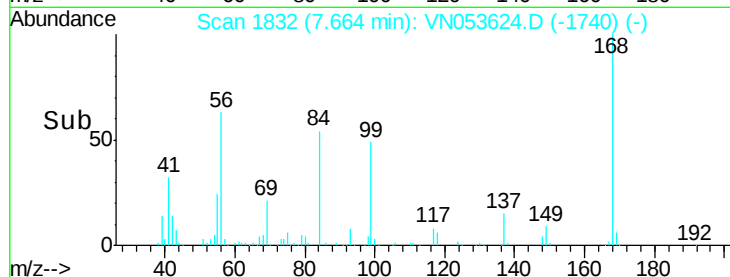
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 45.385 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053624.D

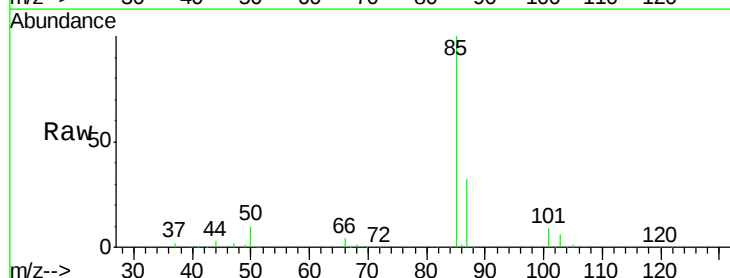
Acq: 6 Feb 2019 9:58

Tgt Ion: 85 Resp: 353904

Ion Ratio Lower Upper

85 100

87 32.1 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

250000

200000

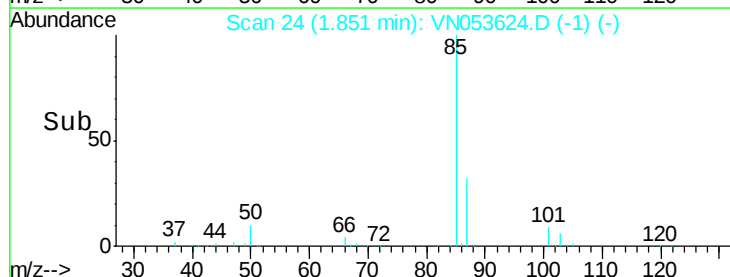
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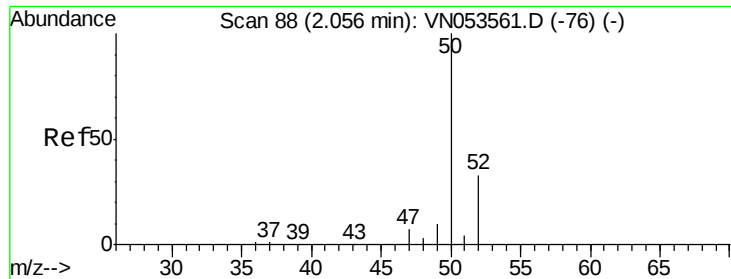
100000

50000

0

Time-->





#3

Chloromethane

Concen: 43.830 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

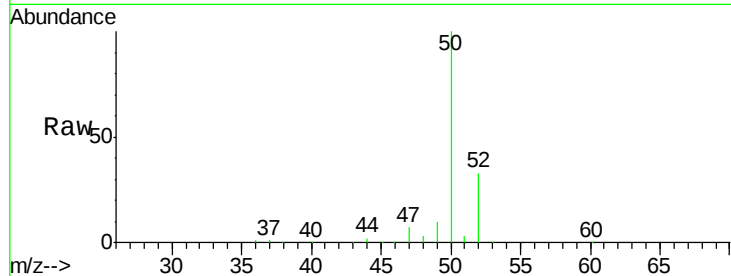
VSTDCCC050

Tot Ion: 50 Resp: 360160

Ion Ratio Lower Upper

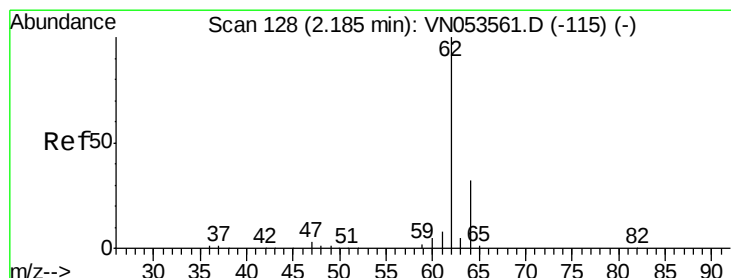
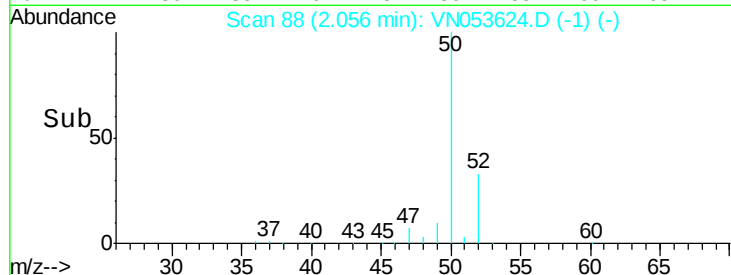
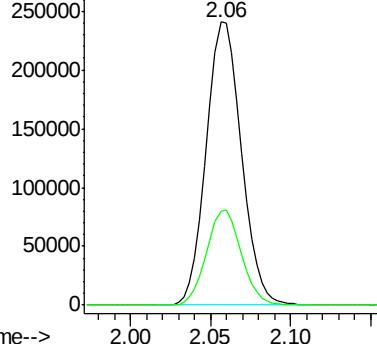
50 100

52 33.2 26.6 40.0



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 44.665 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN053624.D

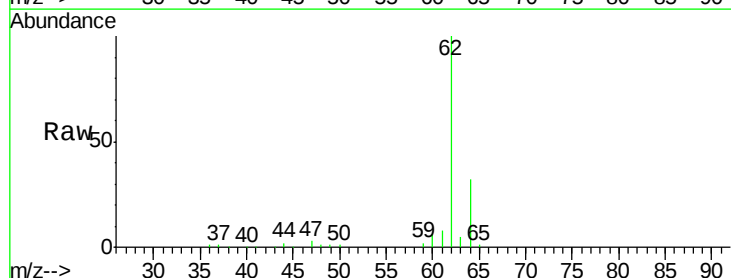
Acq: 6 Feb 2019 9:58

Tgt Ion: 62 Resp: 356288

Ion Ratio Lower Upper

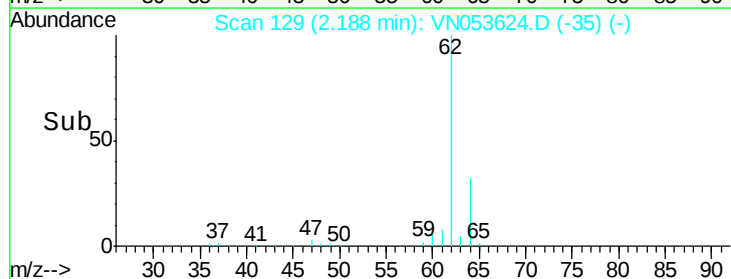
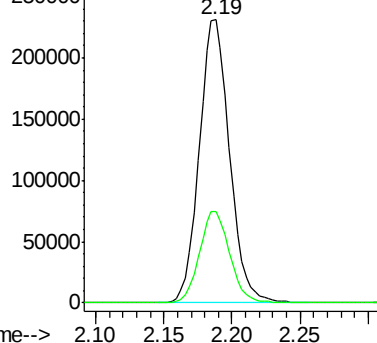
62 100

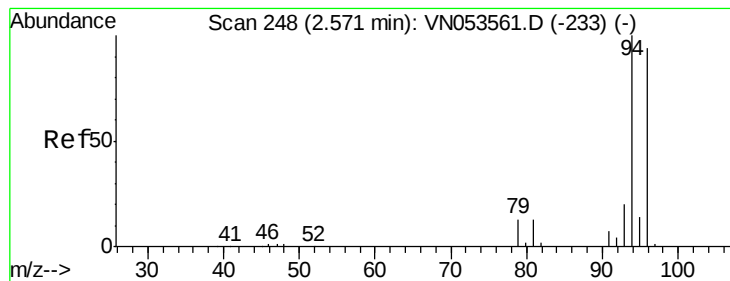
64 32.2 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: 44.780 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

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ClientSampleId :

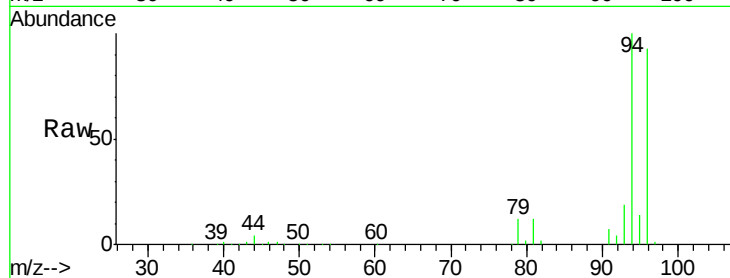
VSTDCCC050

Tot Ion: 94 Resp: 233556

Ion Ratio Lower Upper

94 100

96 93.2 76.8 115.2



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.57

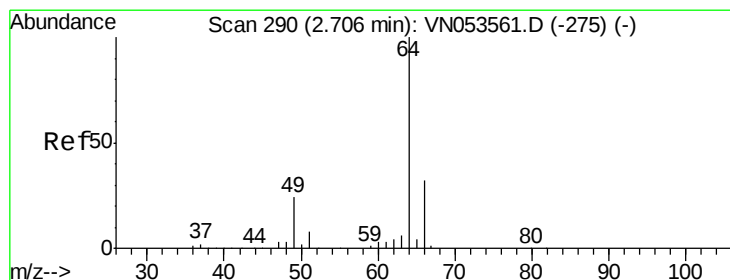
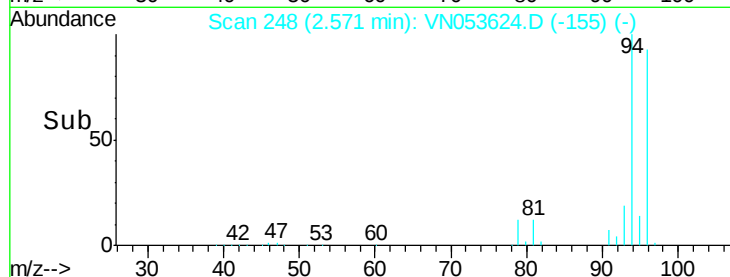
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50000

0

Time-->

2.50 2.55 2.60 2.65



#6

Chloroethane

Concen: 44.700 ug/l

RT: 2.71 min Scan# 290

Delta R.T. 0.00 min

Lab File: VN053624.D

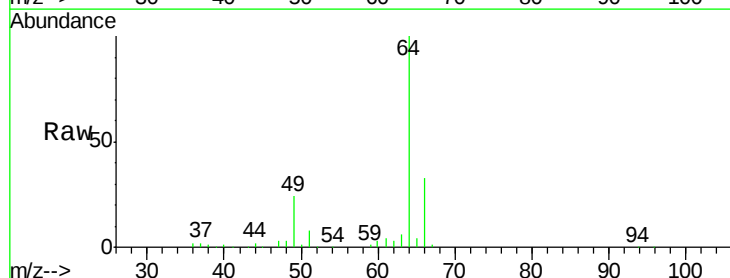
Acq: 6 Feb 2019 9:58

Tgt Ion: 64 Resp: 203760

Ion Ratio Lower Upper

64 100

66 32.8 25.1 37.7



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO

2.71

120000

100000

80000

60000

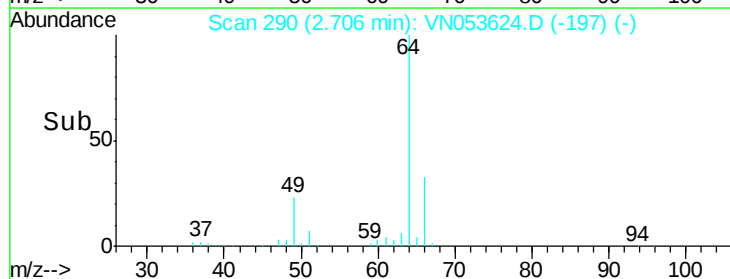
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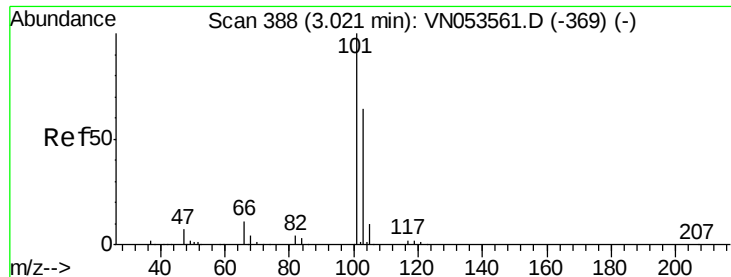
20000

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Time-->

2.60 2.65 2.70 2.75 2.80



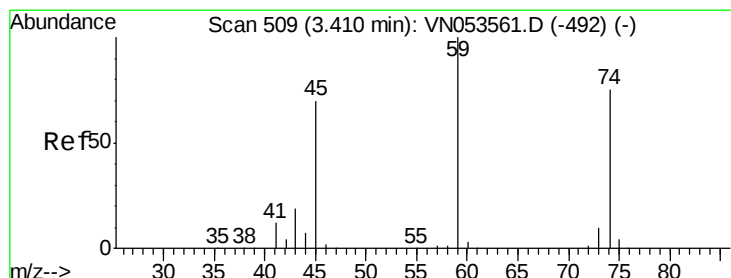
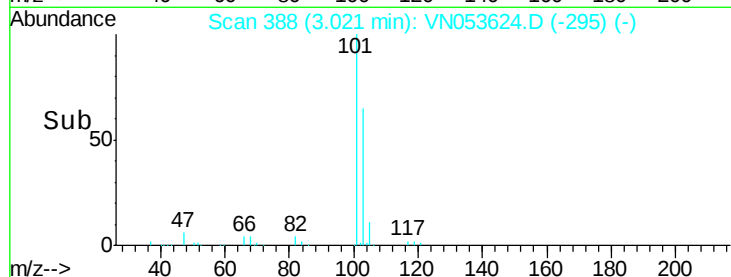
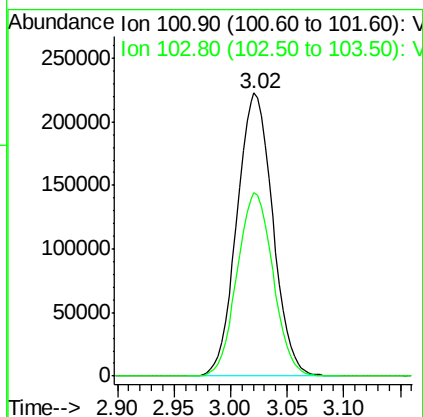
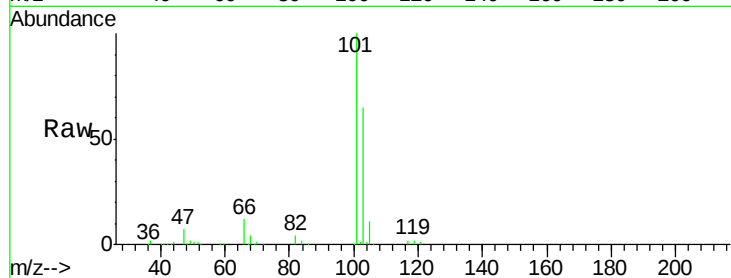


#7

Trichlorofluoromethane
 Concen: 45.491 ug/l
 RT: 3.02 min Scan# 388
 Delta R.T. 0.00 min
 Lab File: VN053624.D
 Acq: 6 Feb 2019 9:58

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 VSTDCCC050

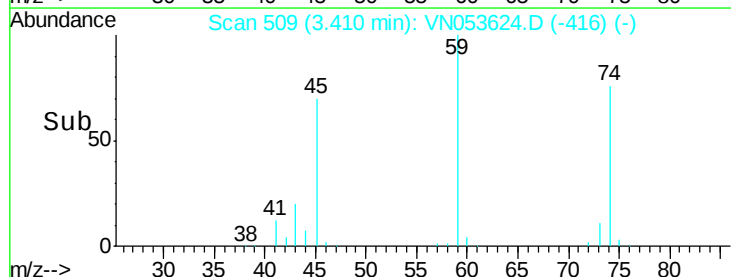
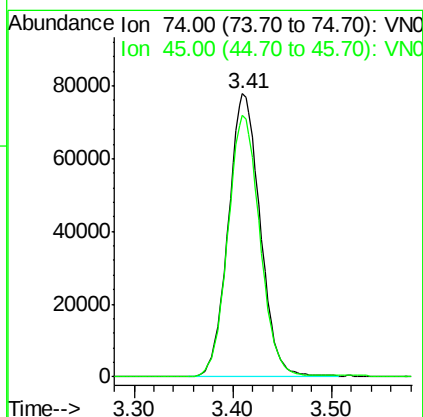
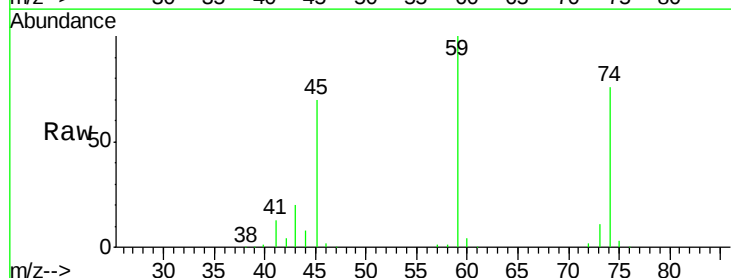
Tot Ion:101 Resp: 492082
 Ion Ratio Lower Upper
 101 100
 103 65.0 51.6 77.4

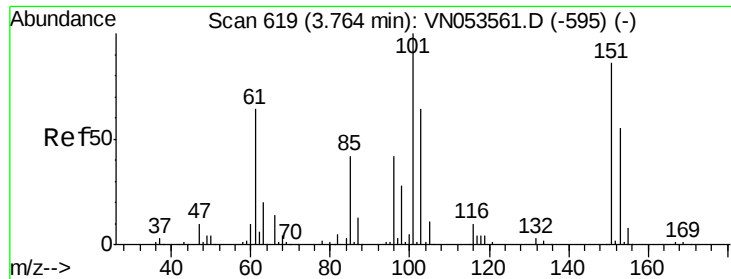


#8

Diethyl Ether
 Concen: 44.423 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. 0.00 min
 Lab File: VN053624.D
 Acq: 6 Feb 2019 9:58

Tgt Ion: 74 Resp: 175492
 Ion Ratio Lower Upper
 74 100
 45 92.7 47.9 143.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.633 ug/l

RT: 3.76 min Scan# 618

Delta R.T. -0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

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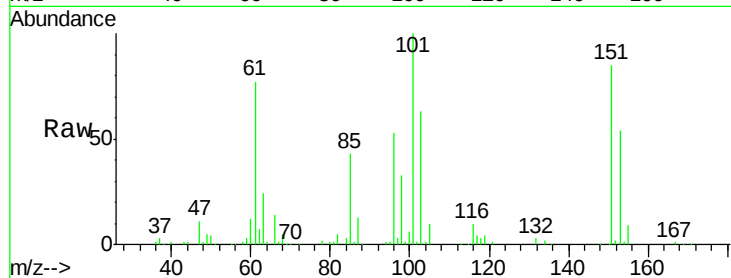
Tot Ion:101 Resp: 311970

Ion Ratio Lower Upper

101 100

85 41.9 32.8 49.2

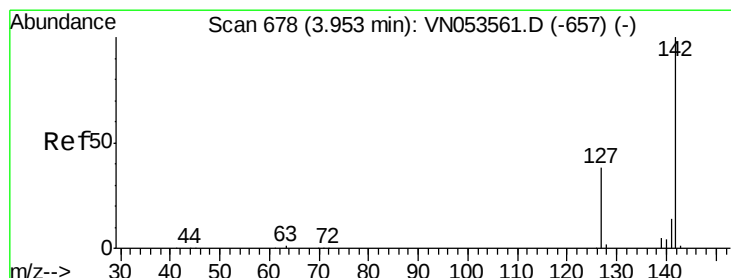
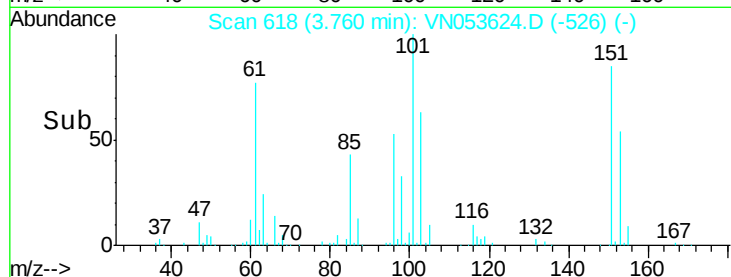
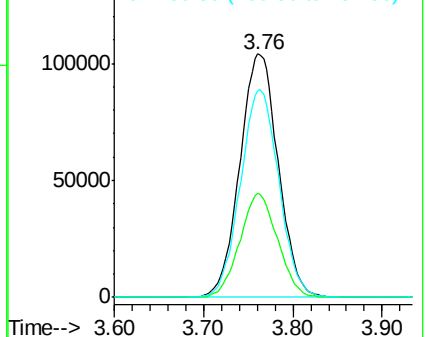
151 85.5 66.9 100.3



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 43.894 ug/l

RT: 3.95 min Scan# 678

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

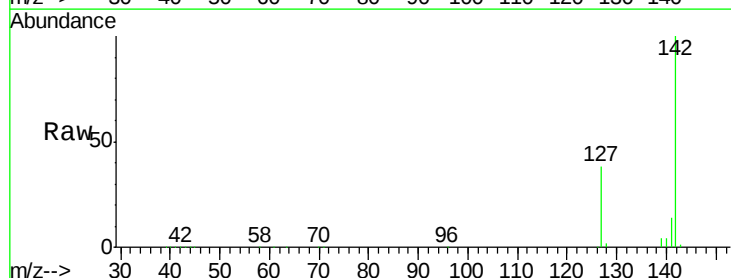
Tgt Ion:142 Resp: 460896

Ion Ratio Lower Upper

142 100

127 38.3 31.0 46.4

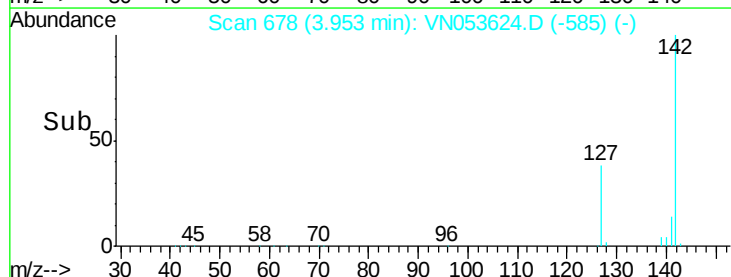
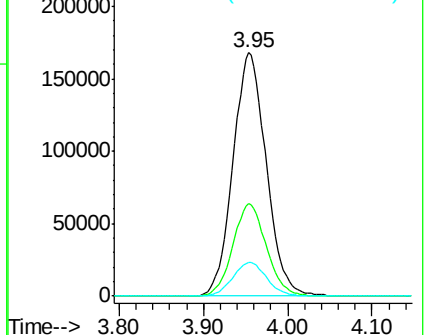
141 14.2 11.1 16.7

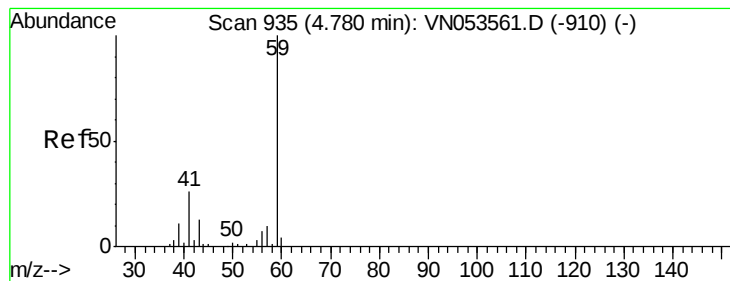


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



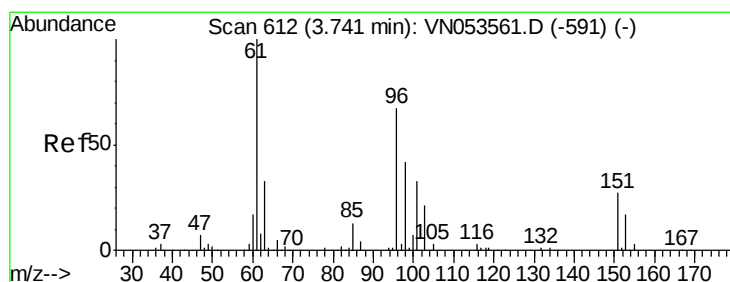
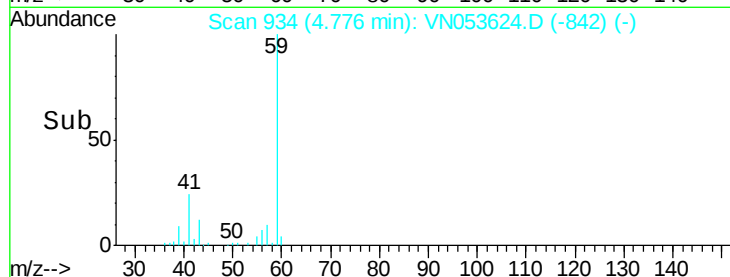
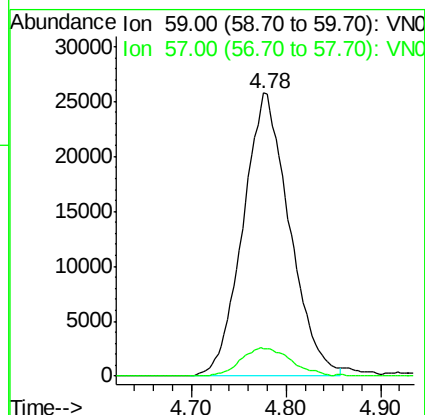
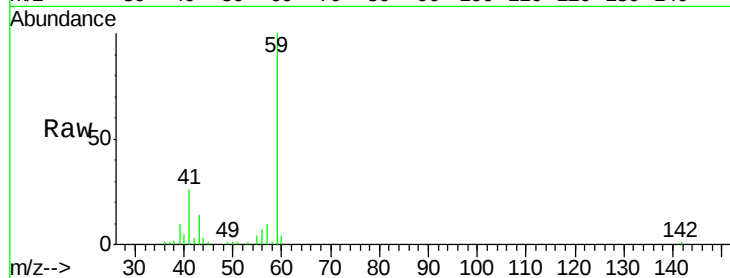


#11

Tert butyl alcohol
 Concen: 213.967 ug/l
 RT: 4.78 min Scan# 934
 Delta R.T. -0.00 min
 Lab File: VN053624.D
 Acq: 6 Feb 2019 9:58

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

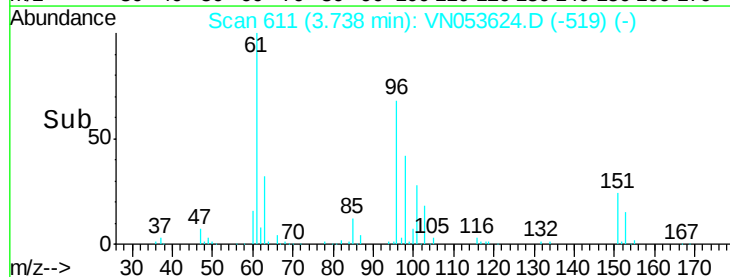
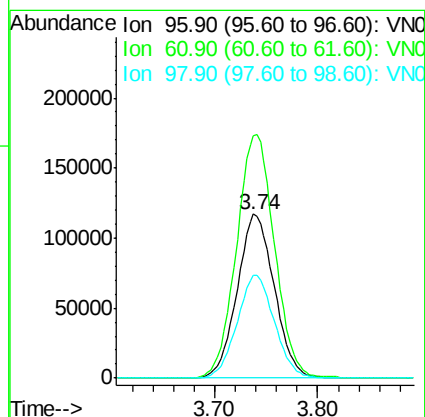
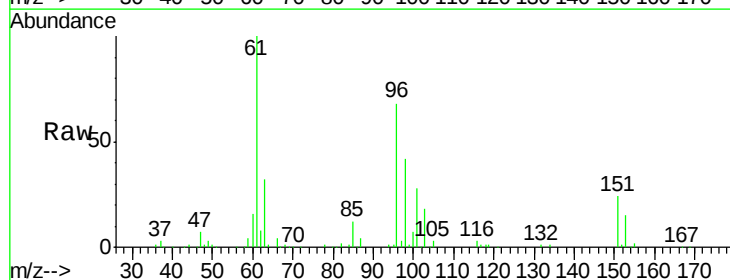
Tot Ion: 59 Resp: 87928
 Ion Ratio Lower Upper
 59 100
 57 10.8 8.2 12.4

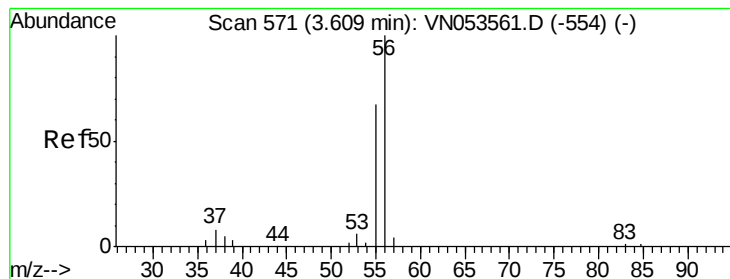


#12

1,1-Dichloroethene
 Concen: 45.608 ug/l
 RT: 3.74 min Scan# 611
 Delta R.T. -0.00 min
 Lab File: VN053624.D
 Acq: 6 Feb 2019 9:58

Tgt Ion: 96 Resp: 292327
 Ion Ratio Lower Upper
 96 100
 61 147.9 122.9 184.3
 98 62.5 49.4 74.0





#13

Acrolein

Concen: 320.402 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

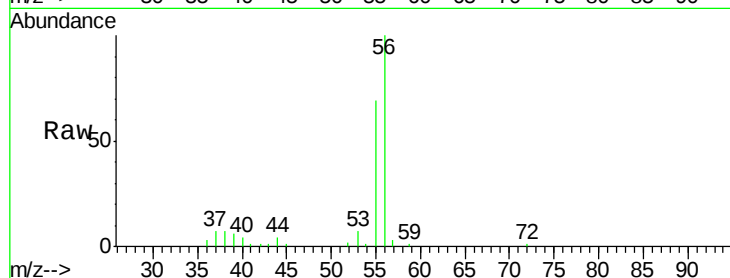
VSTDCCC050

Tot Ion: 56 Resp: 71687

Ion Ratio Lower Upper

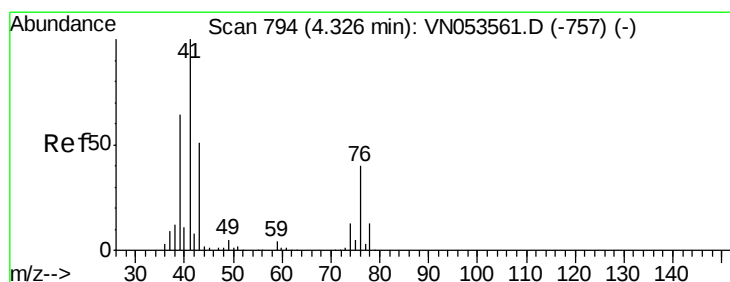
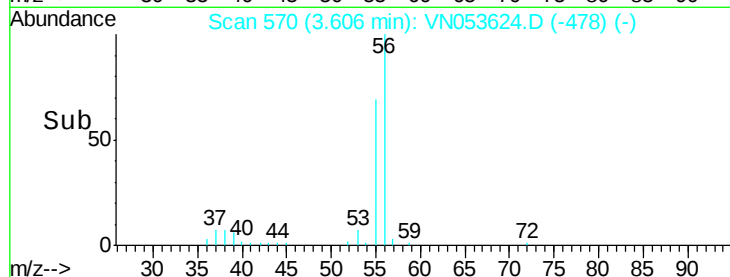
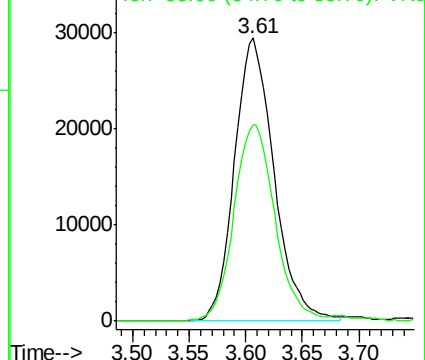
56 100

55 71.7 57.4 86.0



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 45.385 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

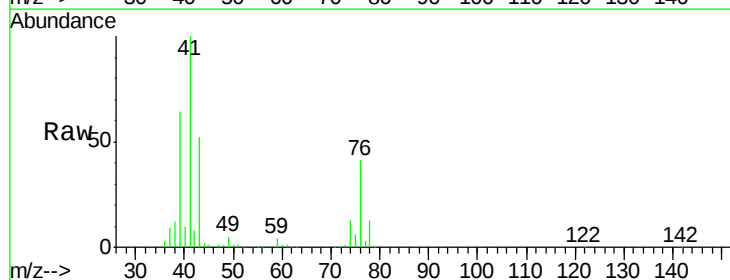
Tgt Ion: 41 Resp: 463171

Ion Ratio Lower Upper

41 100

39 61.1 48.9 73.3

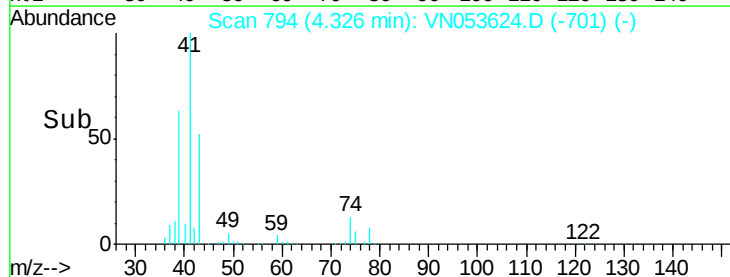
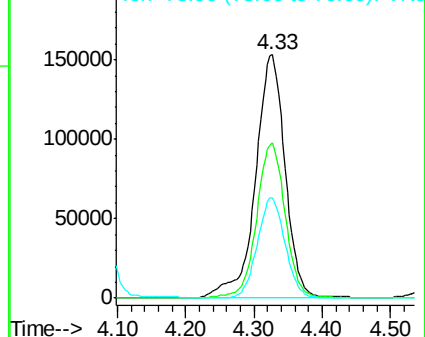
76 38.0 29.4 44.2



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 228.374 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

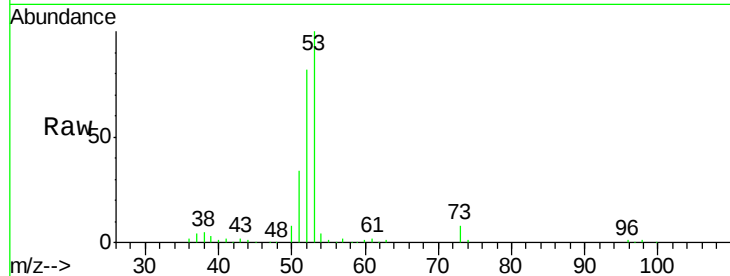
Tot Ion: 53 Resp: 506642

Ion Ratio Lower Upper

53 100

52 81.4 66.0 99.0

51 35.7 28.3 42.5



Abundance Ion 53.00 (52.70 to 53.70): VN053561.D (-975) (-)

Ion 52.00 (51.70 to 52.70): VN053561.D (-975) (-)

Ion 51.00 (50.70 to 51.70): VN053561.D (-975) (-)

4.99

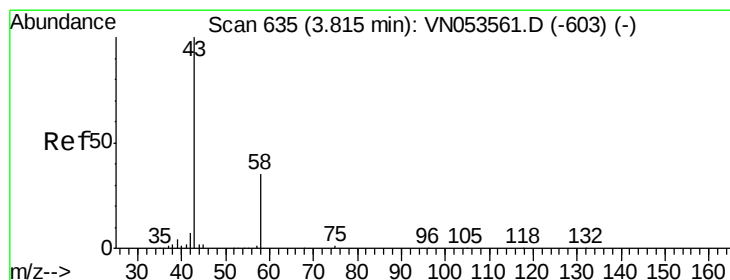
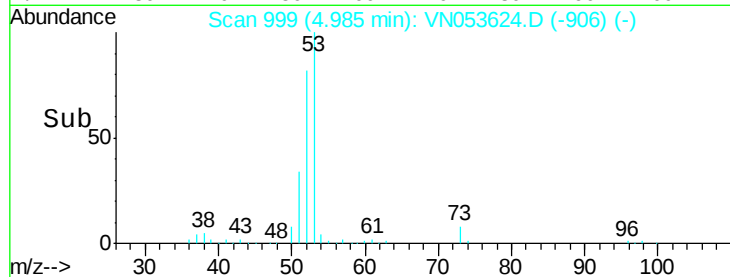
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 286.602 ug/l

RT: 3.81 min Scan# 634

Delta R.T. -0.00 min

Lab File: VN053624.D

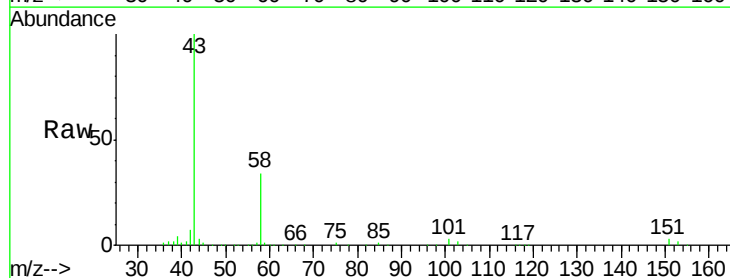
Acq: 6 Feb 2019 9:58

Tgt Ion: 43 Resp: 510456

Ion Ratio Lower Upper

43 100

58 33.8 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN053561.D (-603) (-)

Ion 58.00 (57.70 to 58.70): VN053561.D (-603) (-)

3.81

200000

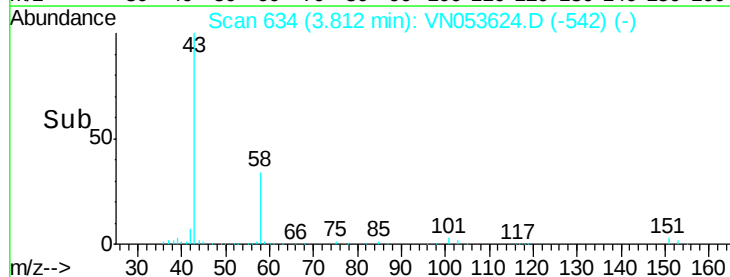
150000

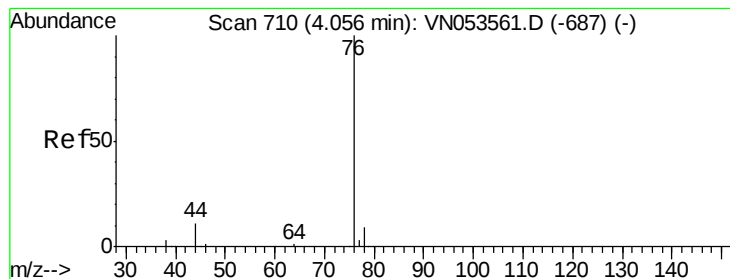
100000

50000

0

Time-->





#17

Carbon Disulfide

Concen: 43.162 ug/l

RT: 4.06 min Scan# 710

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

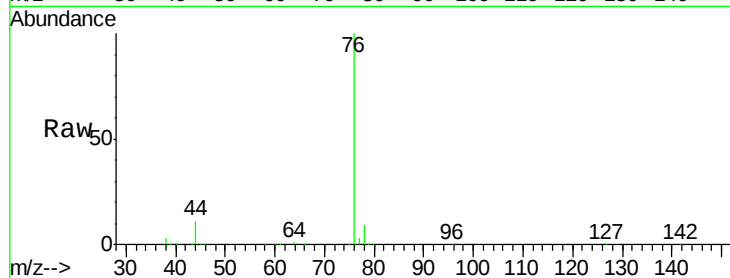
VSTDCCC050

Tot Ion: 76 Resp: 861415

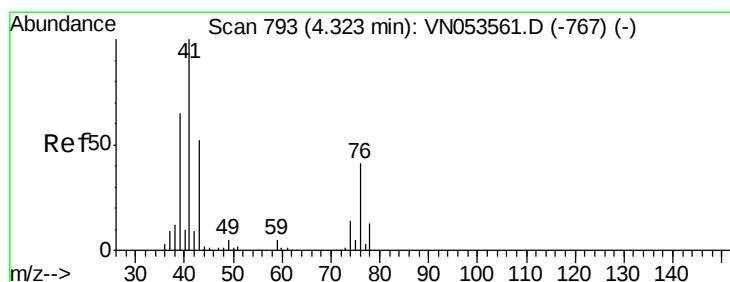
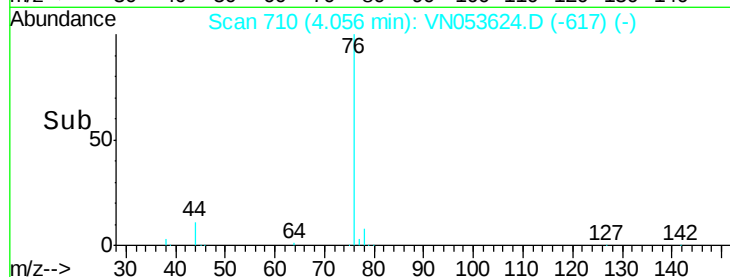
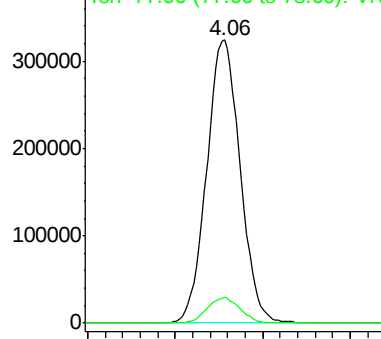
Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VNO
Ion 77.90 (77.60 to 78.60): VNO



#18

Methyl Acetate

Concen: 44.546 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.00 min

Lab File: VN053624.D

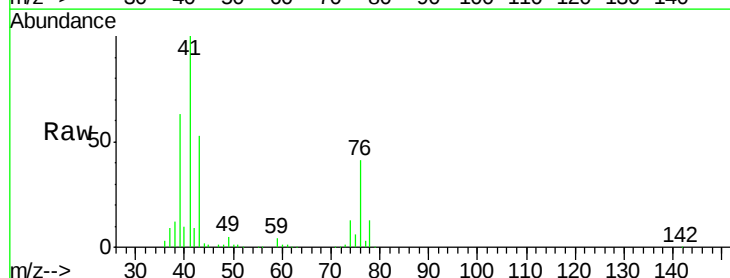
Acq: 6 Feb 2019 9:58

Tgt Ion: 43 Resp: 234967

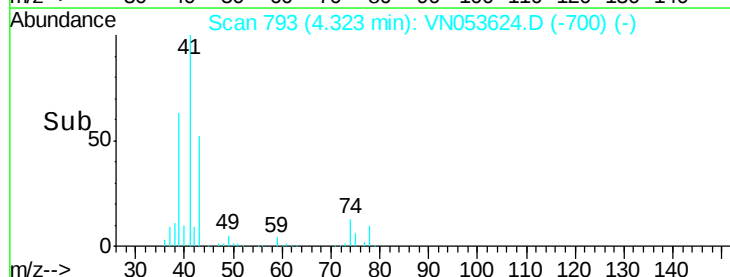
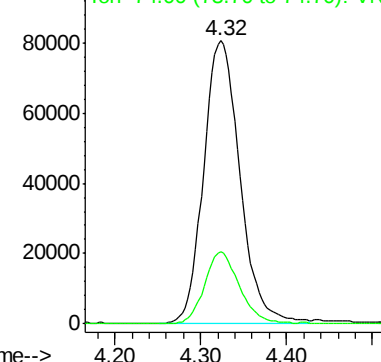
Ion Ratio Lower Upper

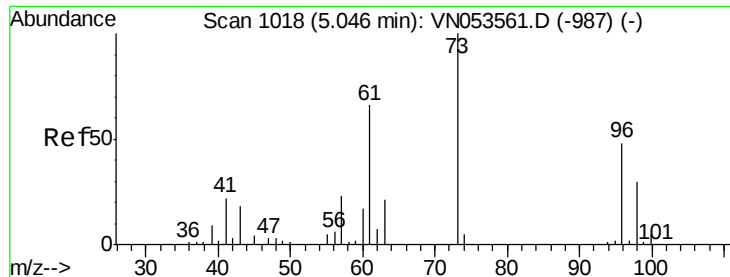
43 100

74 24.7 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 74.00 (73.70 to 74.70): VNO

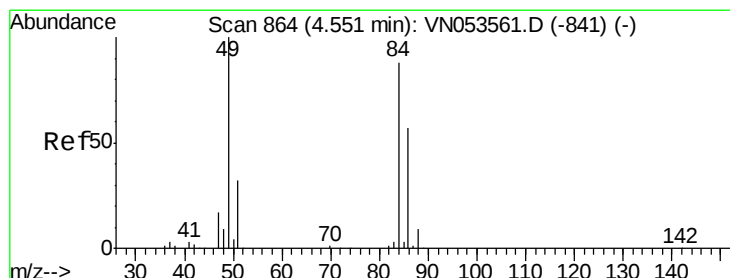
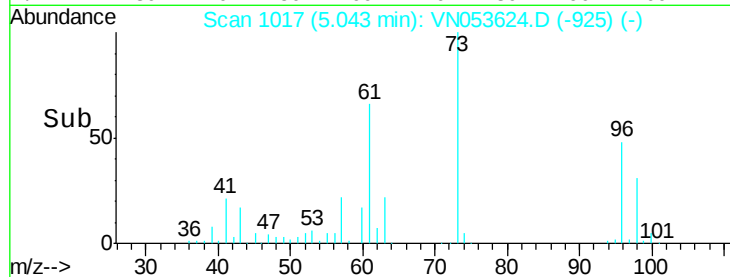
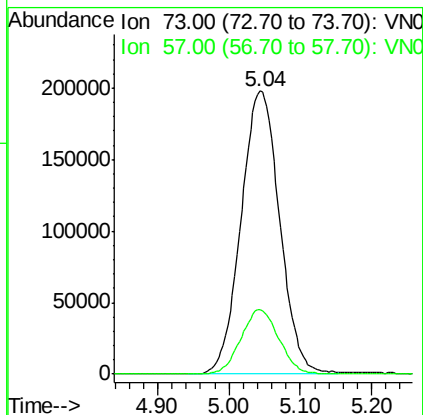
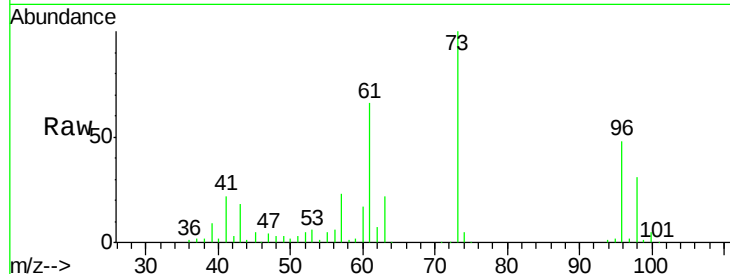




#19
Methvl tert-butvl Ether
Concen: 45.857 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN053624.D
Acq: 6 Feb 2019 9:58

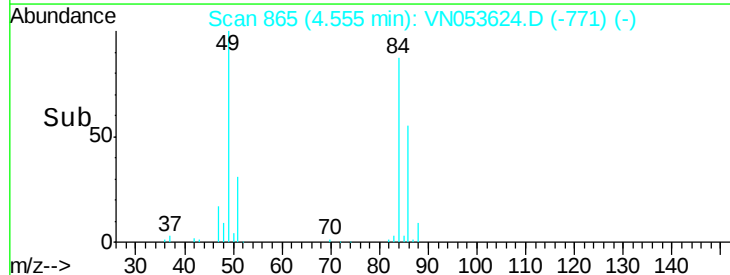
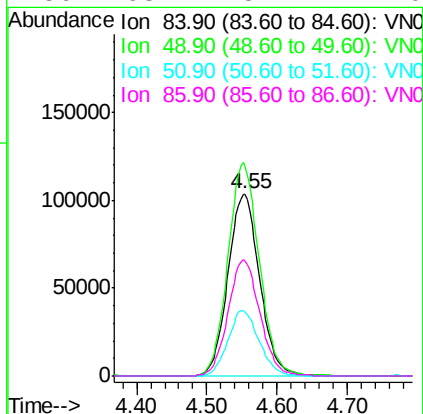
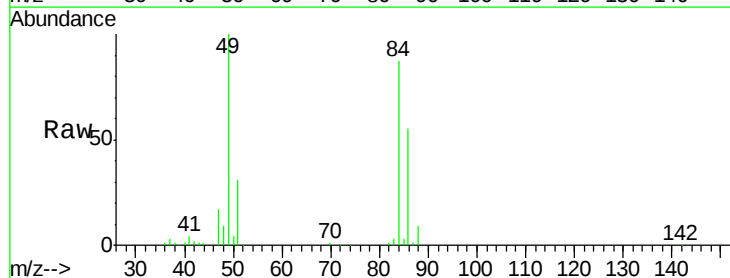
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

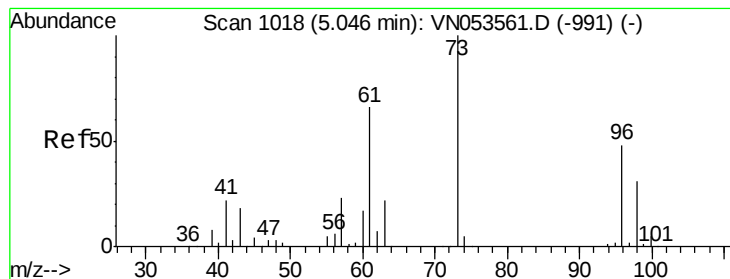
Tot Ion: 73 Resp: 745105
Ion Ratio Lower Upper
73 100
57 22.6 18.3 27.5



#20
Methylene Chloride
Concen: 43.550 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053624.D
Acq: 6 Feb 2019 9:58

Tgt Ion: 84 Resp: 325418
Ion Ratio Lower Upper
84 100
49 115.0 94.3 141.5
51 35.2 29.4 44.2
86 63.1 51.4 77.0





#21

trans-1,2-Dichloroethene

Concen: 44.599 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. -0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

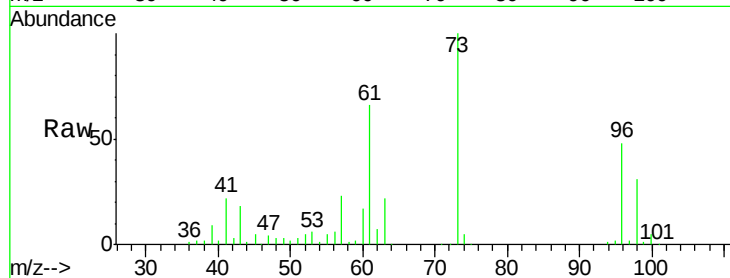
Tot Ion: 96 Resp: 308405

Ion Ratio Lower Upper

96 100

61 138.1 110.1 165.1

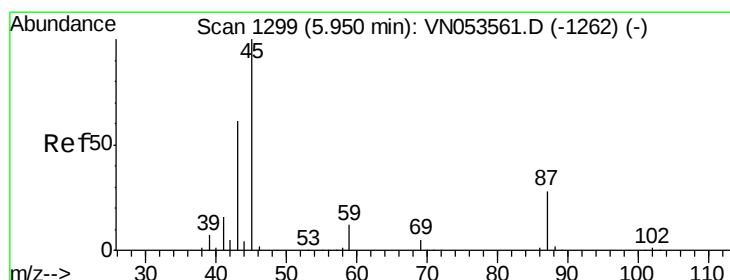
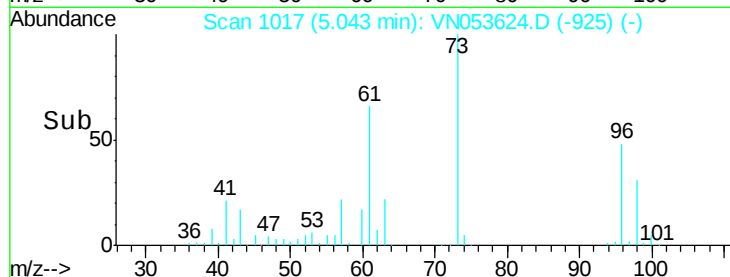
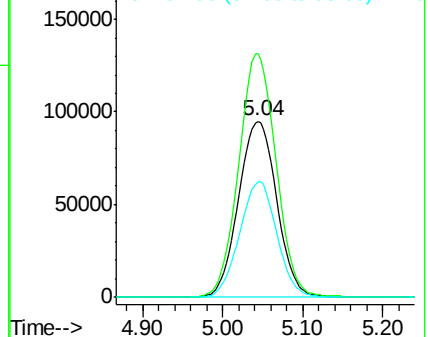
98 65.4 50.0 75.0



Abundance Ion 95.90 (95.60 to 96.60): VN053561.D (-991) (-)

Ion 60.90 (60.60 to 61.60): VN053561.D (-991) (-)

Ion 97.90 (97.60 to 98.60): VN053561.D (-991) (-)



#22

Diisopropyl ether

Concen: 46.648 ug/l

RT: 5.95 min Scan# 1299

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Tgt Ion: 45 Resp: 882097

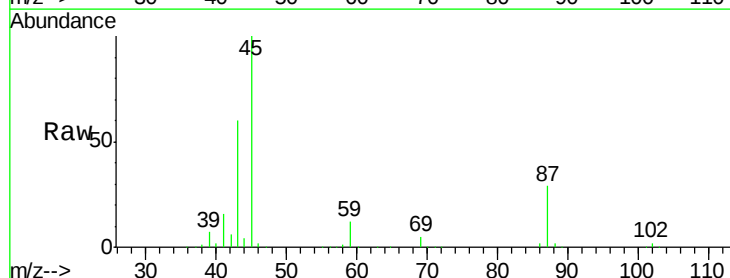
Ion Ratio Lower Upper

45 100

43 58.6 44.2 66.4

87 28.7 22.7 34.1

59 12.2 9.4 14.2

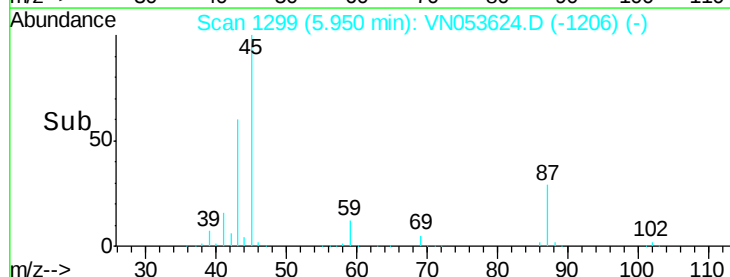
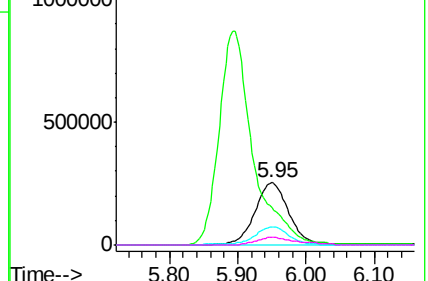


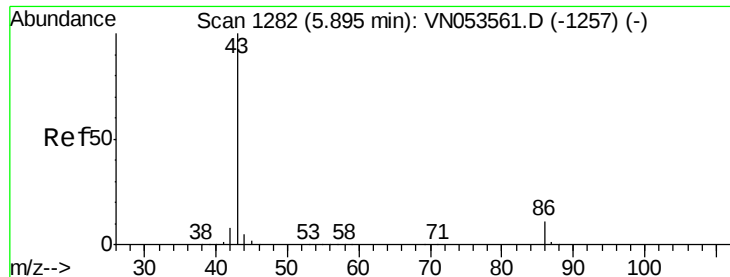
Abundance Ion 45.00 (44.70 to 45.70): VN053561.D (-1262) (-)

Ion 43.00 (42.70 to 43.70): VN053561.D (-1262) (-)

Ion 87.00 (86.70 to 87.70): VN053561.D (-1262) (-)

Ion 59.00 (58.70 to 59.70): VN053561.D (-1262) (-)





#23

Vinyl Acetate

Concen: 230.336 ug/l

RT: 5.89 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

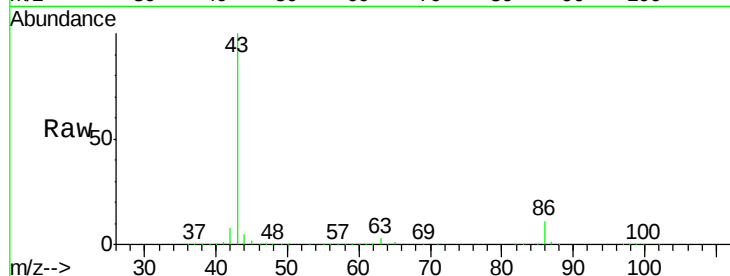
VSTDCCC050

Tot Ion: 43 Resp: 3013125

Ion Ratio Lower Upper

43 100

86 11.2 8.4 12.6



Abundance Ion 43.00 (42.70 to 43.70): VN053561.D (-1257) (-)

Ion 86.00 (85.70 to 86.70): VN053561.D (-1257) (-)

5.89

800000

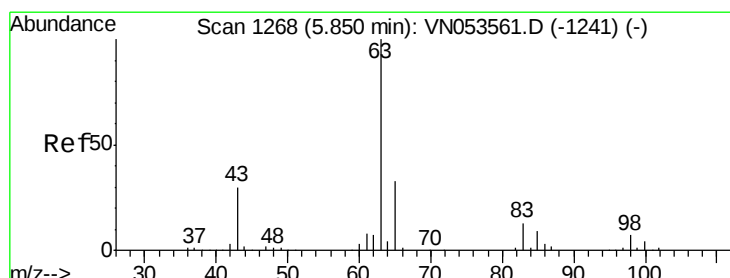
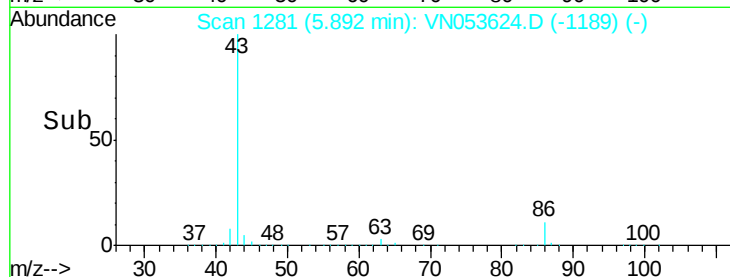
600000

400000

200000

0

Time-->



#24

1,1-Dichloroethane

Concen: 44.740 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

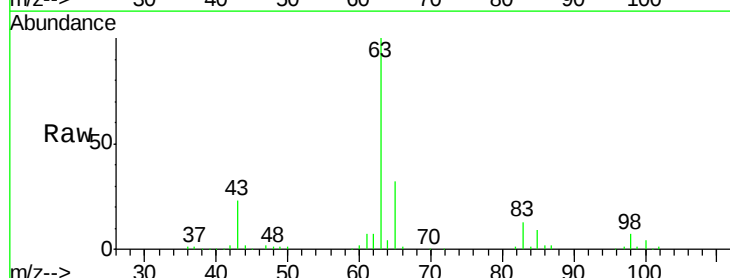
Tgt Ion: 63 Resp: 564289

Ion Ratio Lower Upper

63 100

98 7.1 3.3 9.9

100 4.1 2.1 6.5



Abundance Ion 62.90 (62.60 to 63.60): VN053561.D (-1241) (-)

Ion 97.90 (97.60 to 98.60): VN053561.D (-1241) (-)

Ion 99.90 (99.60 to 100.60): VN053561.D (-1241) (-)

5.85

250000

200000

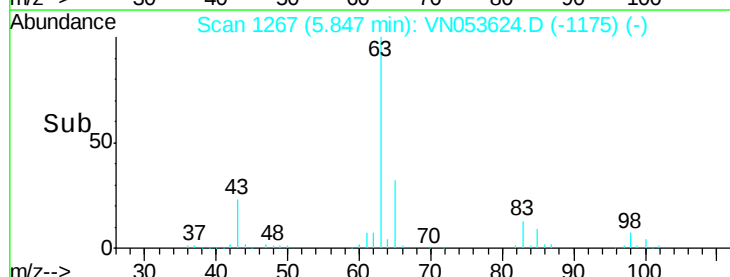
150000

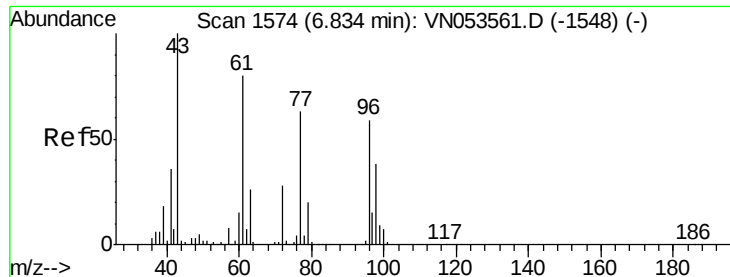
100000

50000

0

Time-->





#25

2-Butanone

Concen: 246.774 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

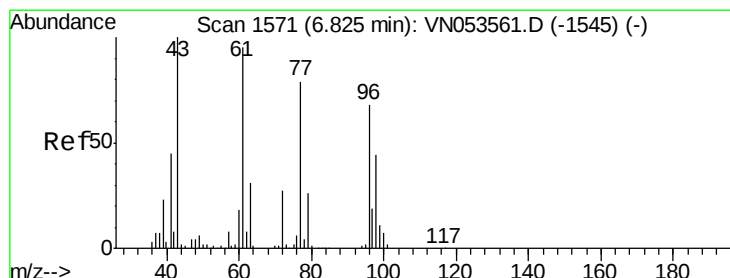
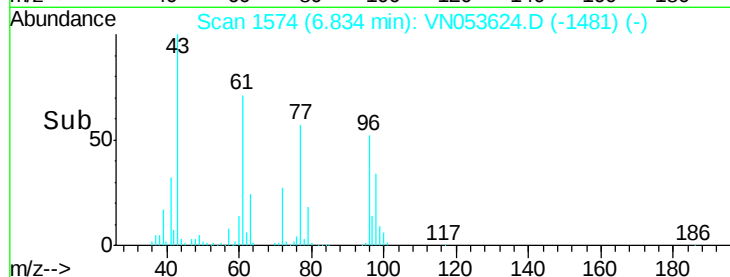
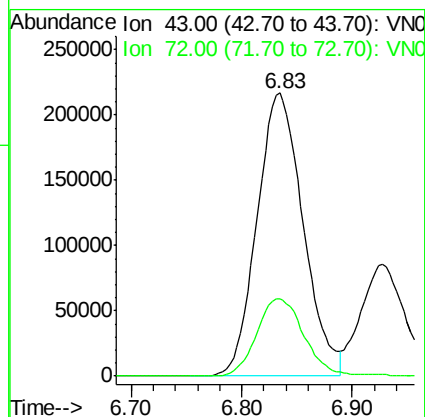
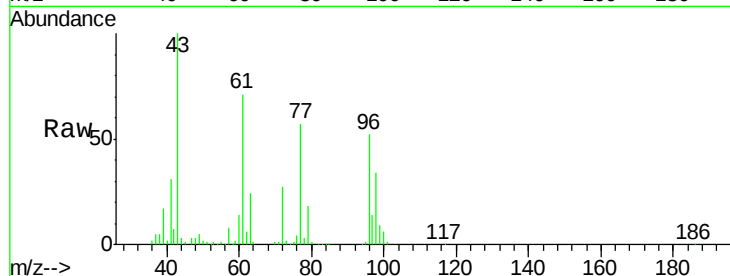
VSTDCCC050

Tot Ion: 43 Resp: 626852

Ion Ratio Lower Upper

43 100

72 27.4 22.0 33.0



#26

2,2-Dichloropropane

Concen: 45.281 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN053624.D

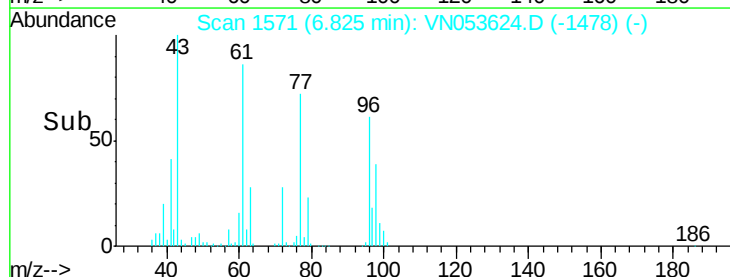
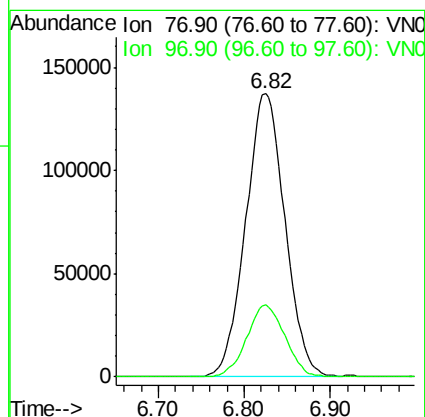
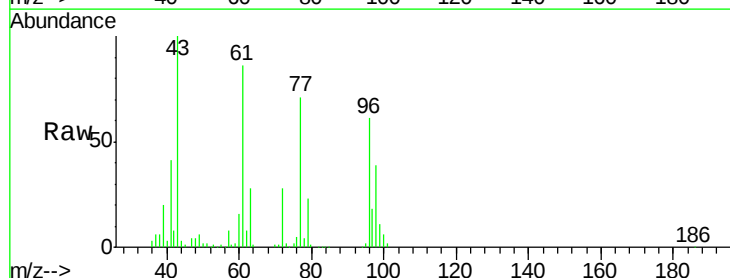
Acq: 6 Feb 2019 9:58

Tgt Ion: 77 Resp: 435961

Ion Ratio Lower Upper

77 100

97 24.8 12.2 36.6





#27

cis-1,2-Dichloroethene

Concen: 45.494 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

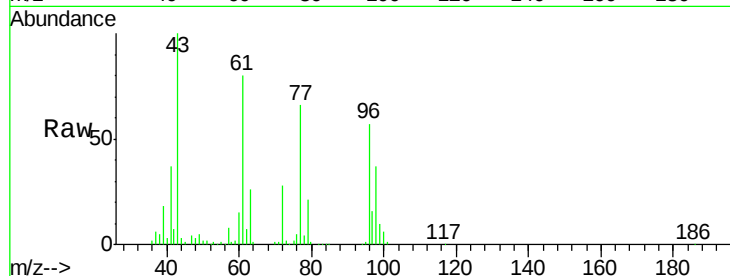
Tot Ion: 96 Resp: 349810

Ion Ratio Lower Upper

96 100

61 139.7 0.0 283.8

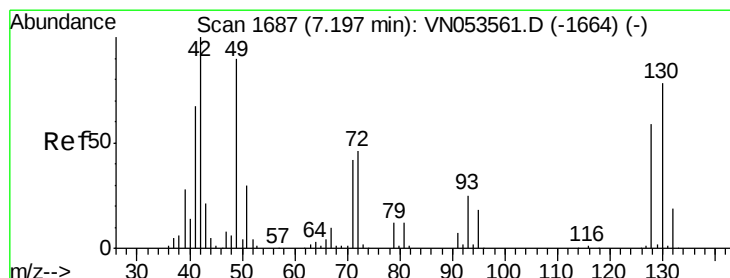
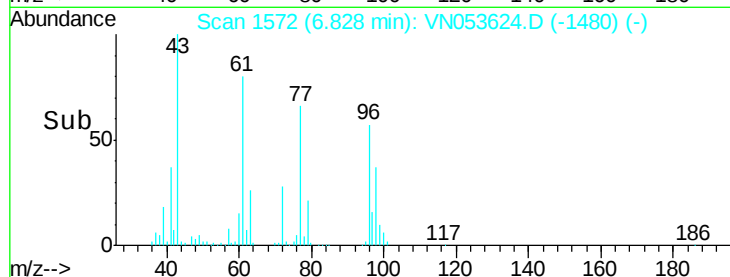
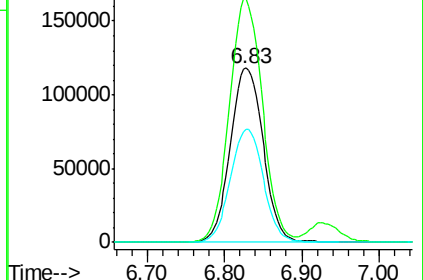
98 65.0 0.0 129.2



Abundance Ion 95.90 (95.60 to 96.60): VN053624.D (-1480) (-)

Ion 60.90 (60.60 to 61.60): VN053624.D (-1480) (-)

Ion 97.90 (97.60 to 98.60): VN053624.D (-1480) (-)



#28

Bromochloromethane

Concen: 48.461 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

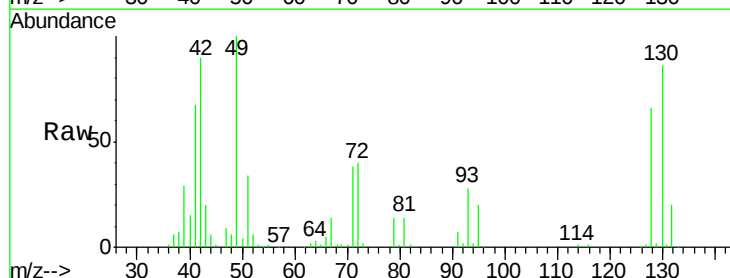
Tgt Ion: 49 Resp: 265243

Ion Ratio Lower Upper

49 100

129 2.2 0.0 4.0

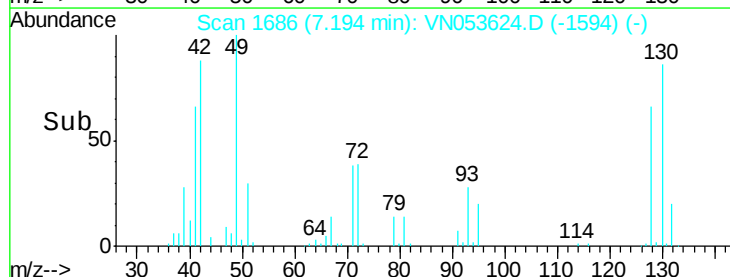
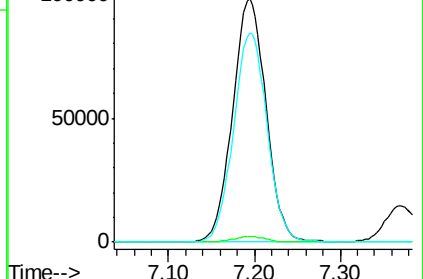
130 86.3 66.3 99.5

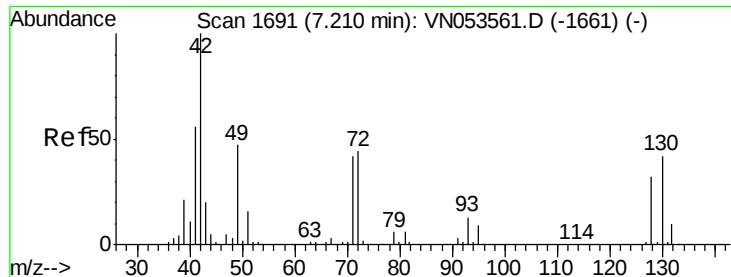


Abundance Ion 48.90 (48.60 to 49.60): VN053624.D (-1594) (-)

Ion 128.80 (128.50 to 129.50): VN053624.D (-1594) (-)

Ion 129.80 (129.50 to 130.50): VN053624.D (-1594) (-)

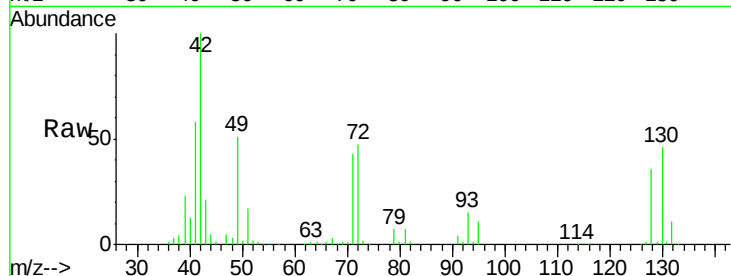




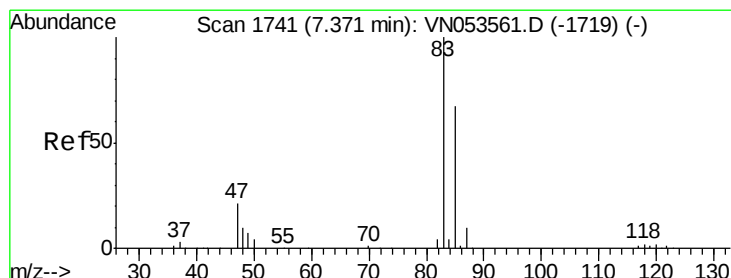
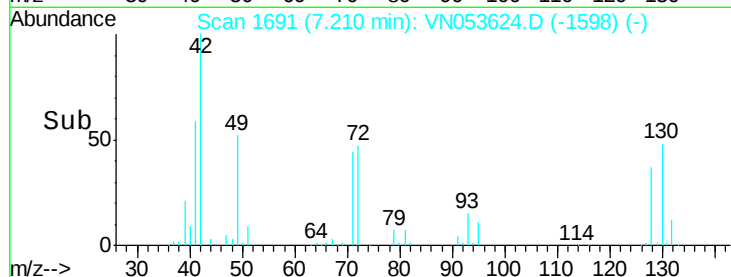
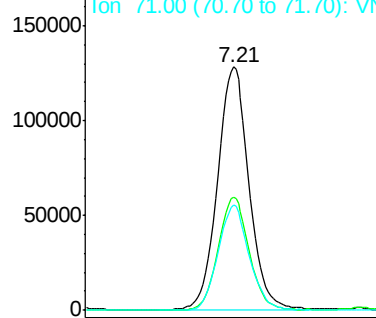
#29
Tetrahydrofuran
Concen: 222.161 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053624.D
Acq: 6 Feb 2019 9:58

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tot Ion: 42 Resp: 362374
Ion Ratio Lower Upper
42 100
72 45.9 35.2 52.8
71 42.8 33.0 49.4

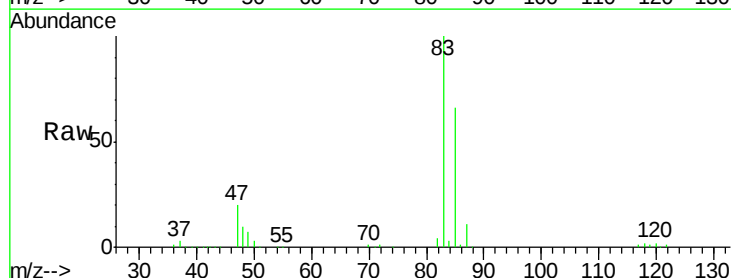


Abundance Ion 42.00 (41.70 to 42.70): VNO
Ion 72.00 (71.70 to 72.70): VNO
Ion 71.00 (70.70 to 71.70): VNO

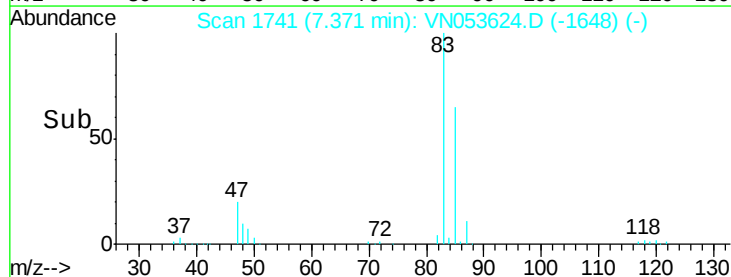
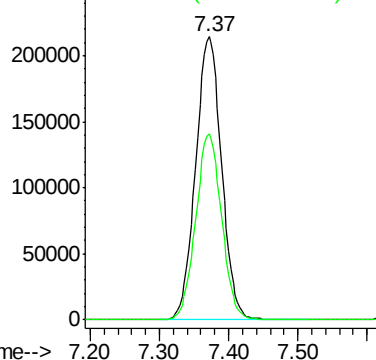


#30
Chloroform
Concen: 44.858 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN053624.D
Acq: 6 Feb 2019 9:58

Tgt Ion: 83 Resp: 560849
Ion Ratio Lower Upper
83 100
85 65.6 52.2 78.2



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO





#31

Cyclohexane

Concen: 43.714 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

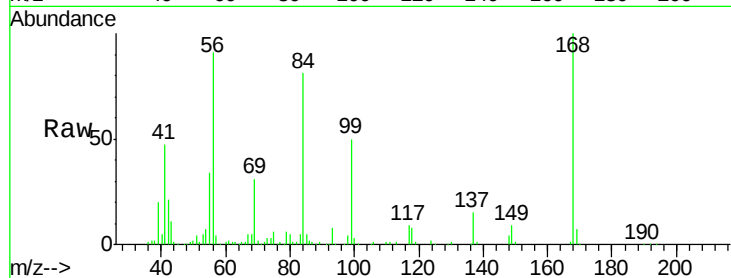
Tot Ion: 56 Resp: 513581

Ion Ratio Lower Upper

56 100

69 33.8 26.4 39.6

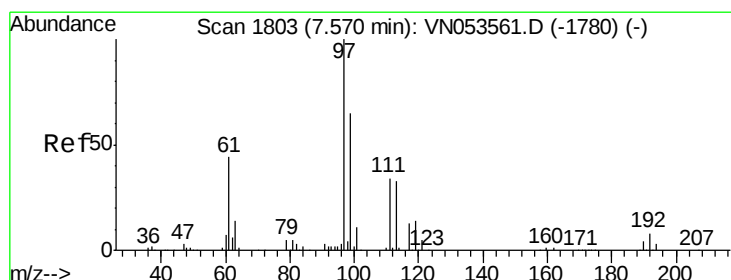
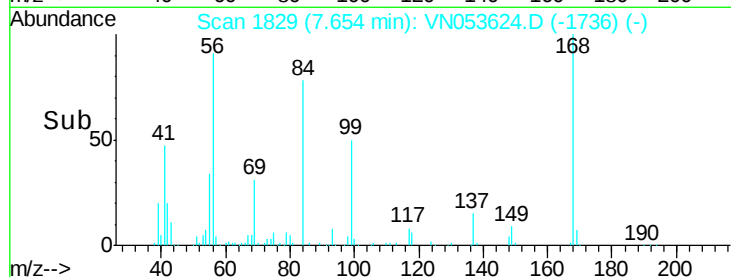
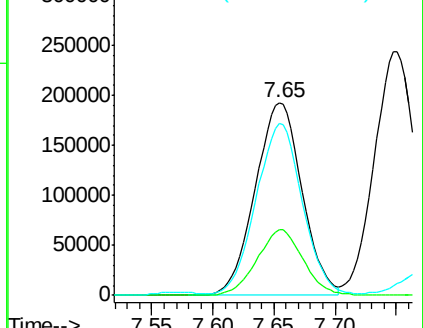
84 87.7 67.9 101.9



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 45.515 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

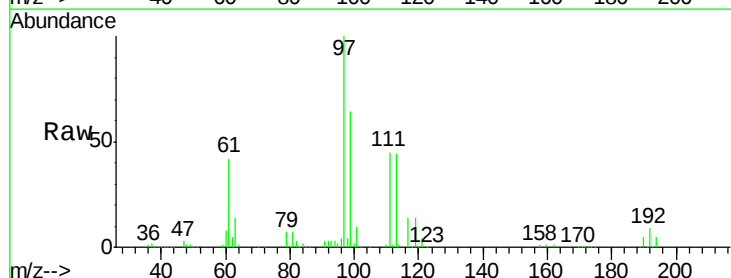
Tgt Ion: 97 Resp: 473581

Ion Ratio Lower Upper

97 100

99 64.2 52.0 78.0

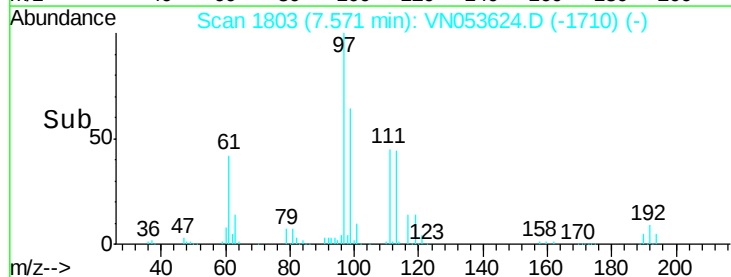
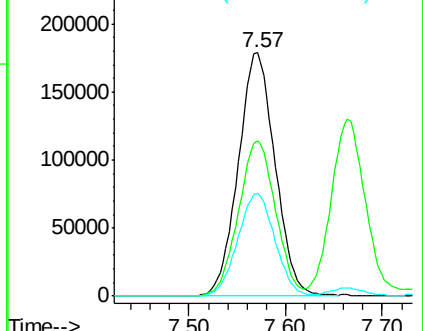
61 42.5 34.4 51.6

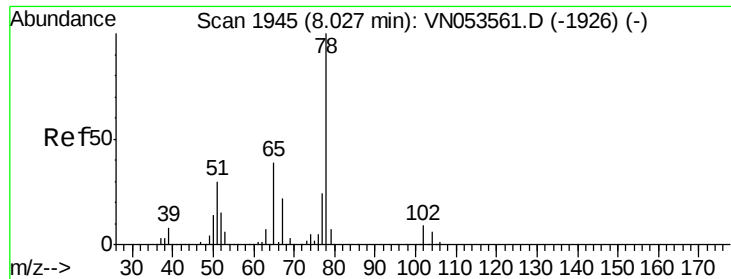


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

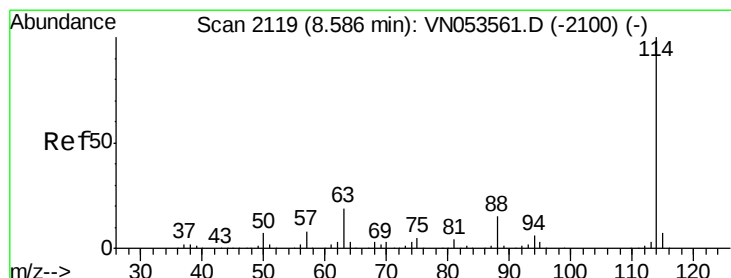
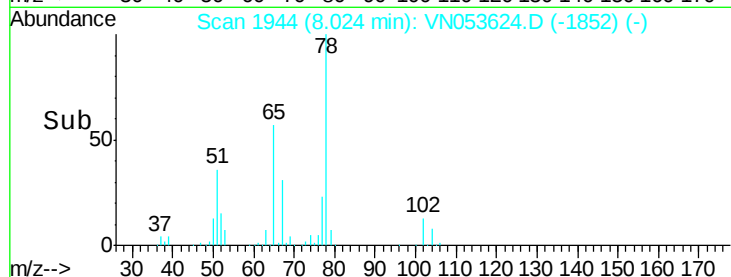
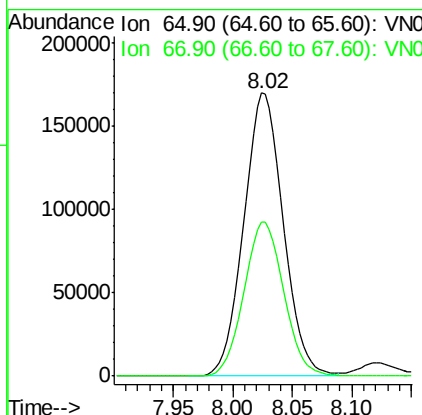
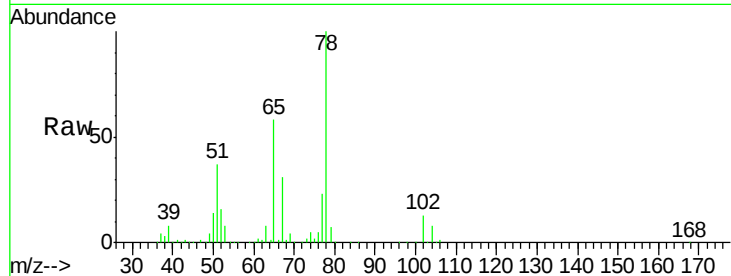




#33
 1,2-Dichloroethane-d4
 Concen: 45.515 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN053624.D
 Acq: 6 Feb 2019 9:58

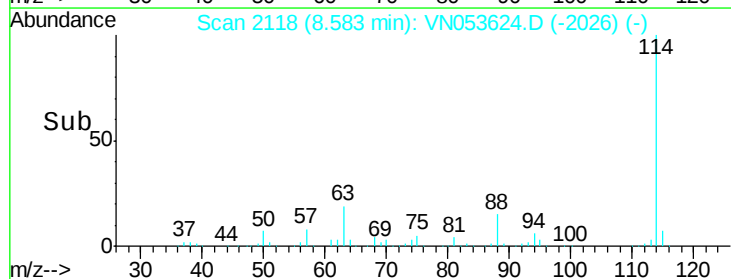
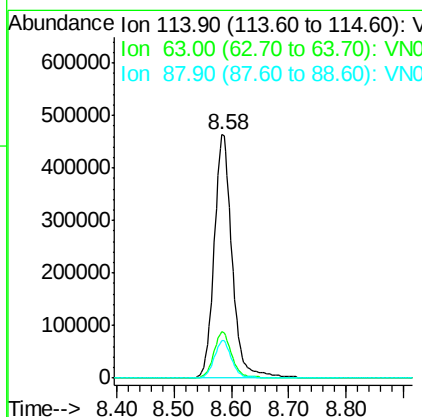
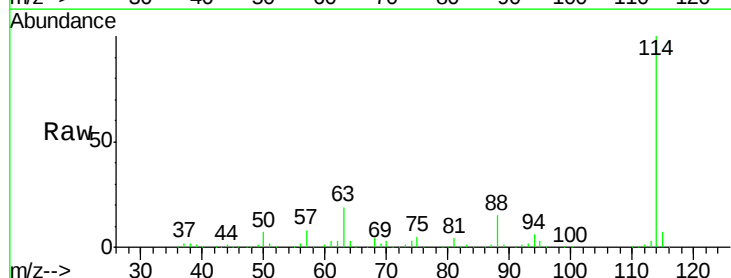
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

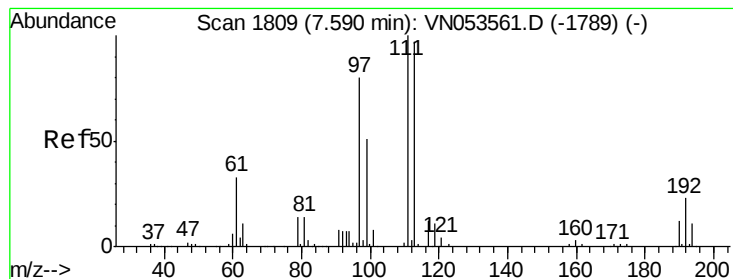
Tot Ion: 65 Resp: 391049
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 111.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN053624.D
 Acq: 6 Feb 2019 9:58

Tgt Ion: 114 Resp: 1013249
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 38.6
 88 15.2 0.0 30.4





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

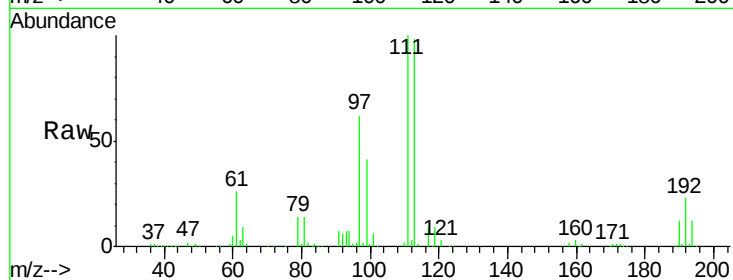
Tot Ion:113 Resp: 376938

Ion Ratio Lower Upper

113 100

111 102.9 81.1 121.7

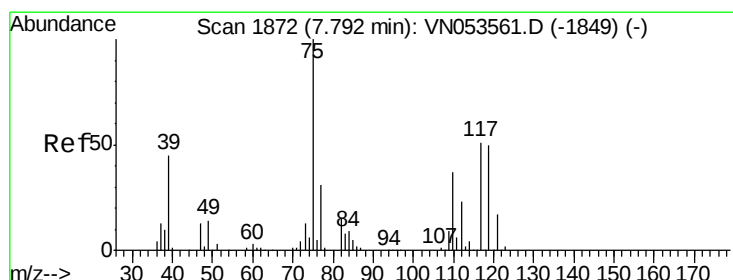
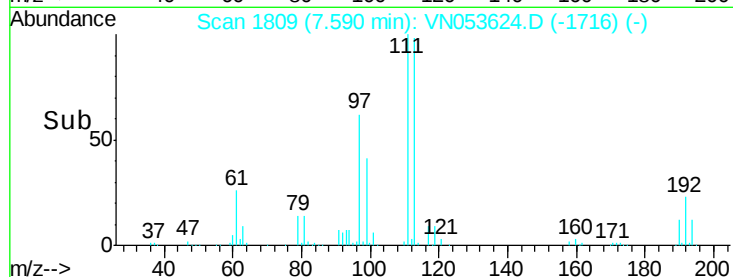
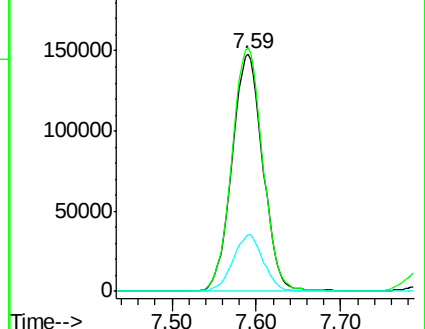
192 23.4 18.2 27.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 47.492 ug/l

RT: 7.79 min Scan# 1872

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

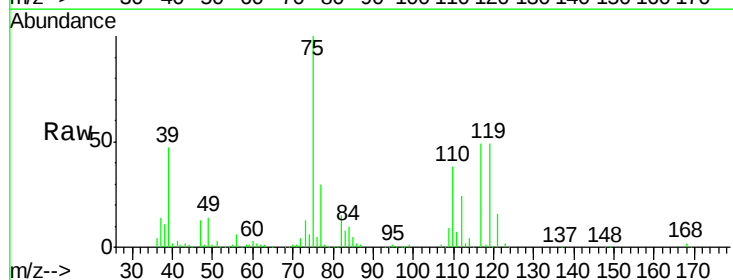
Tgt Ion: 75 Resp: 433781

Ion Ratio Lower Upper

75 100

110 37.0 18.1 54.3

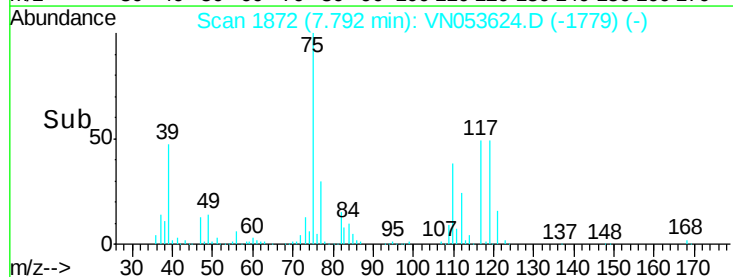
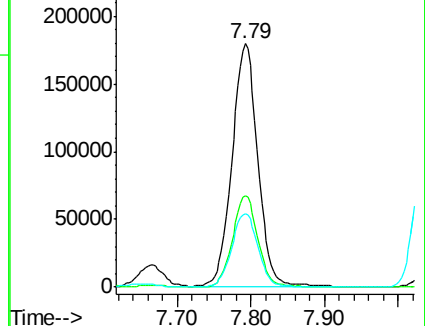
77 31.2 25.1 37.7

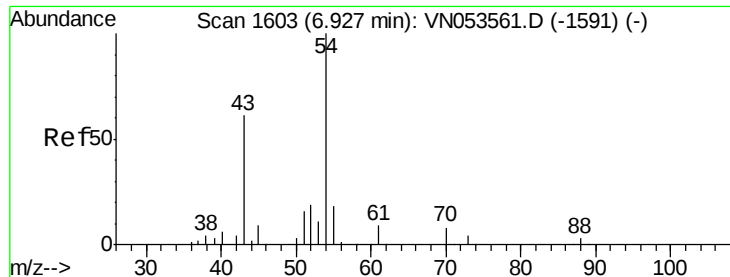


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

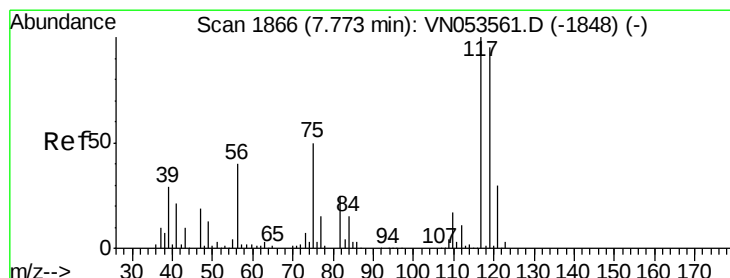
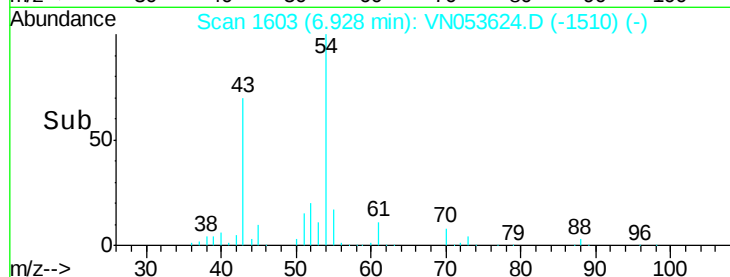
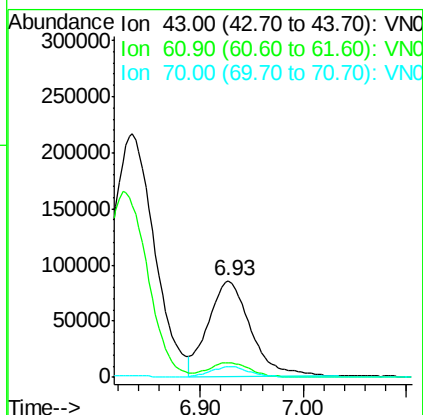
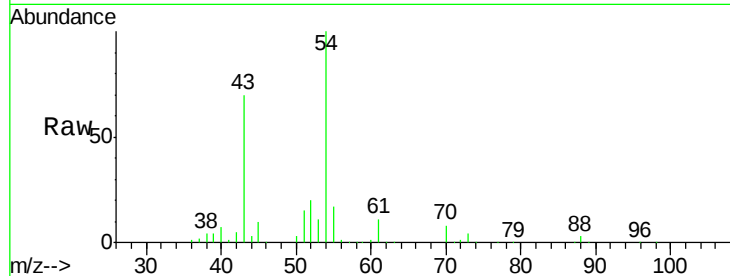




#37
Ethyl Acetate
Concen: 47.655 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VN053624.D
Acq: 6 Feb 2019 9:58

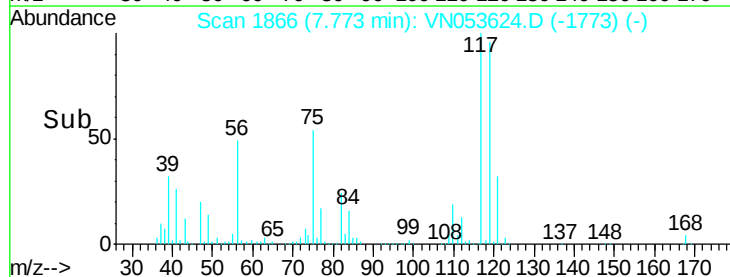
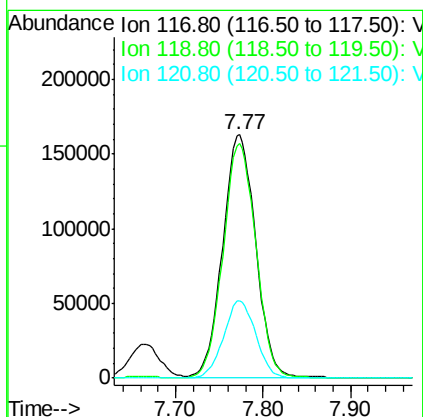
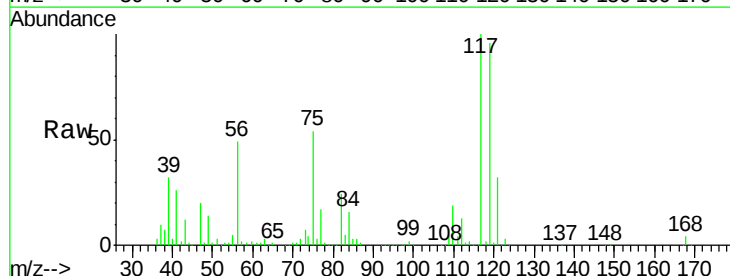
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

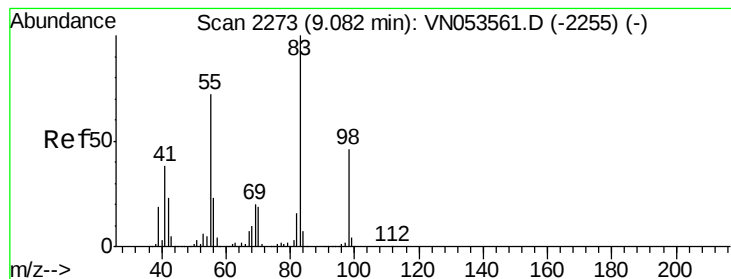
Tot Ion: 43 Resp: 243100
Ion Ratio Lower Upper
43 100
61 14.6 11.8 17.6
70 10.3 8.6 12.8



#38
Carbon Tetrachloride
Concen: 45.983 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN053624.D
Acq: 6 Feb 2019 9:58

Tgt Ion: 117 Resp: 423108
Ion Ratio Lower Upper
117 100
119 96.4 77.2 115.8
121 32.0 24.6 37.0





#39

Methvlcvclohexane

Concen: 47.875 ug/l

RT: 9.08 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

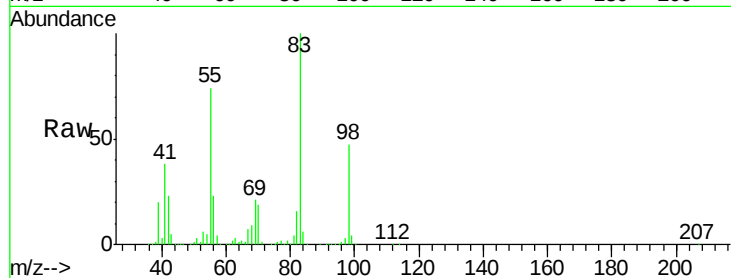
Tot Ion: 83 Resp: 518791

Ion Ratio Lower Upper

83 100

55 74.4 60.1 90.1

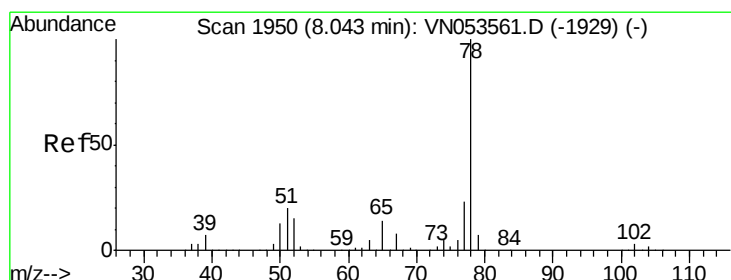
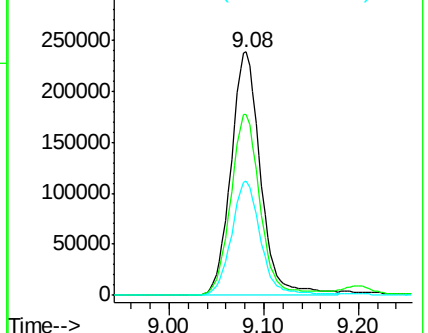
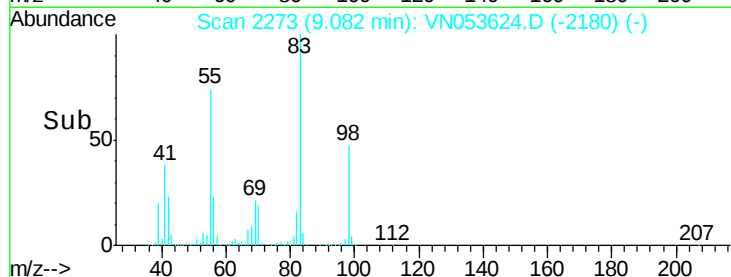
98 46.8 36.6 55.0



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0



#40

Benzene

Concen: 46.476 ug/l

RT: 8.04 min Scan# 1949

Delta R.T. -0.00 min

Lab File: VN053624.D

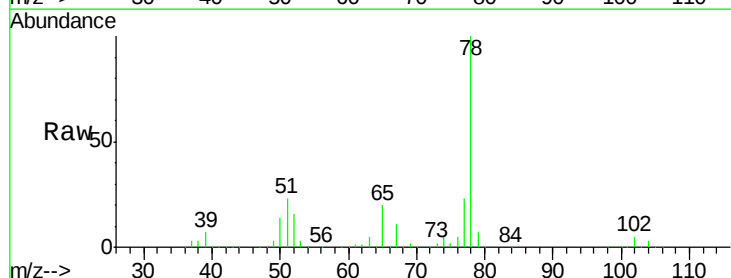
Acq: 6 Feb 2019 9:58

Tgt Ion: 78 Resp: 1309070

Ion Ratio Lower Upper

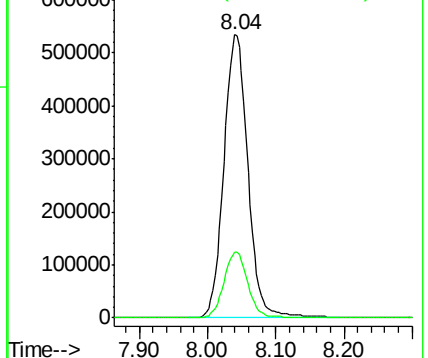
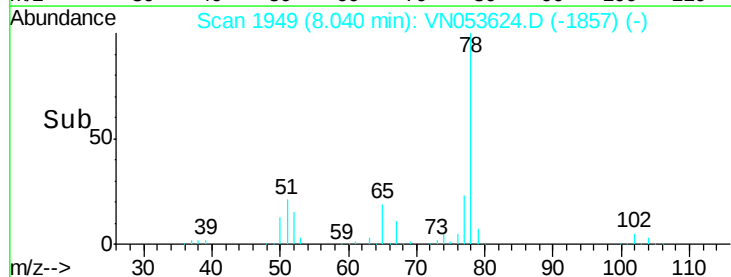
78 100

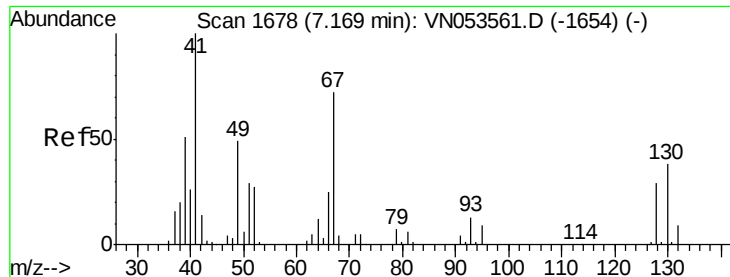
77 23.4 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

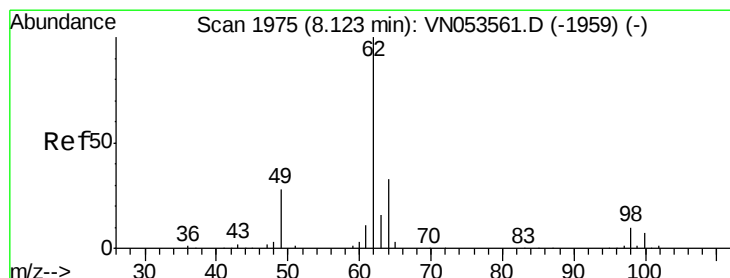
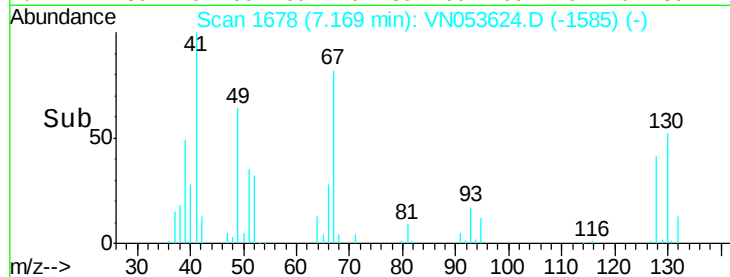
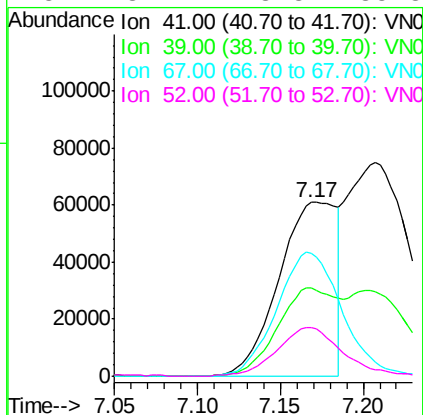
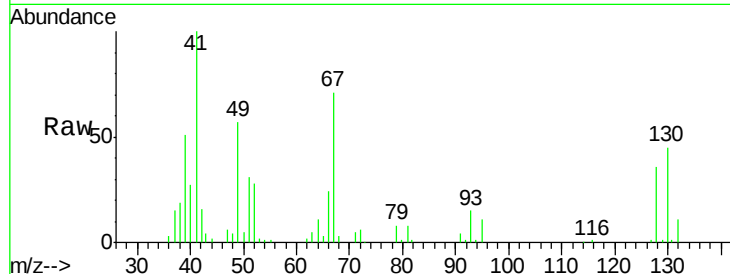




#41
Methacrylonitrile
Concen: 51.861 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. 0.00 min
Lab File: VN053624.D
Acq: 6 Feb 2019 9:58

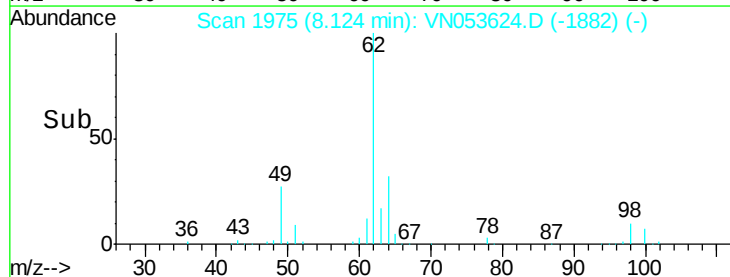
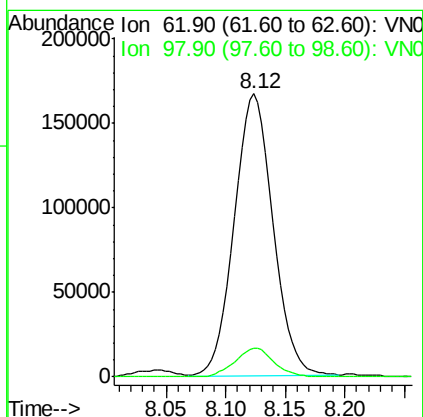
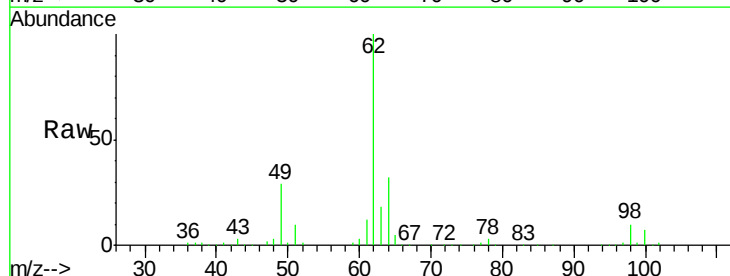
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

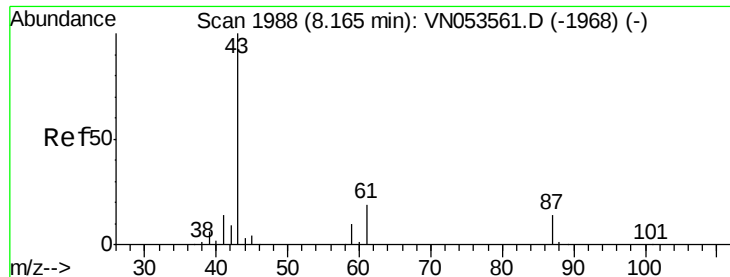
Tot Ion: 41 Resp: 147860
Ion Ratio Lower Upper
41 100
39 53.7 46.8 70.2
67 81.7 63.0 94.6
52 32.1 23.8 35.8



#42
1,2-Dichloroethane
Concen: 44.988 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN053624.D
Acq: 6 Feb 2019 9:58

Tgt Ion: 62 Resp: 376239
Ion Ratio Lower Upper
62 100
98 10.3 0.0 19.6





#43

Isopropyl Acetate

Concen: 43.364 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

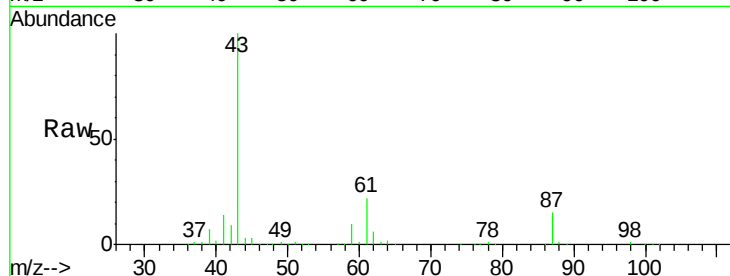
Tot Ion: 43 Resp: 427203

Ion Ratio Lower Upper

43 100

61 20.9 23.9 35.9#

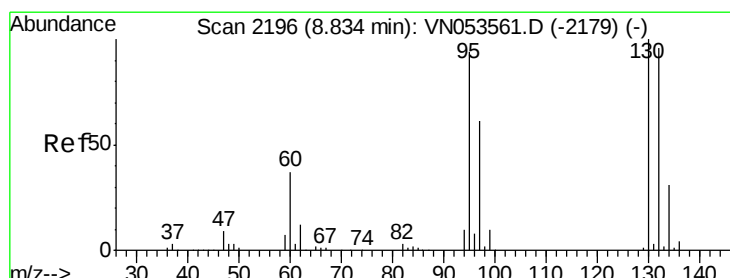
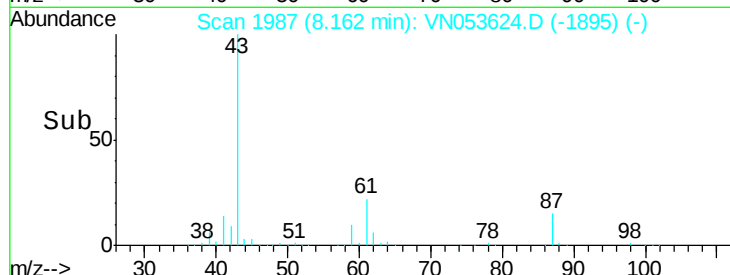
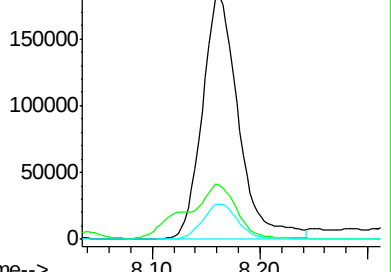
87 14.0 11.0 16.6



Abundance Ion 43.00 (42.70 to 43.70): VN053561.D (-1968) (-)

Ion 61.00 (60.70 to 61.70): VN053561.D (-1968) (-)

Ion 87.00 (86.70 to 87.70): VN053561.D (-1968) (-)



#44

Trichloroethene

Concen: 44.229 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN053624.D

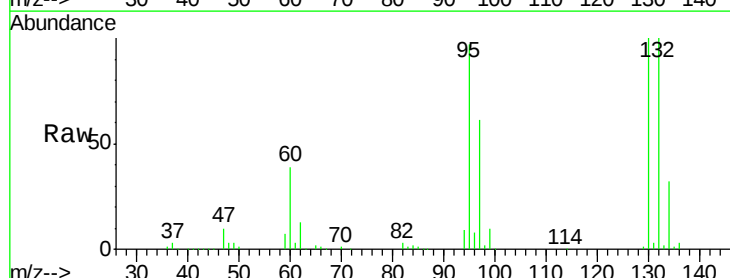
Acq: 6 Feb 2019 9:58

Tgt Ion: 130 Resp: 354664

Ion Ratio Lower Upper

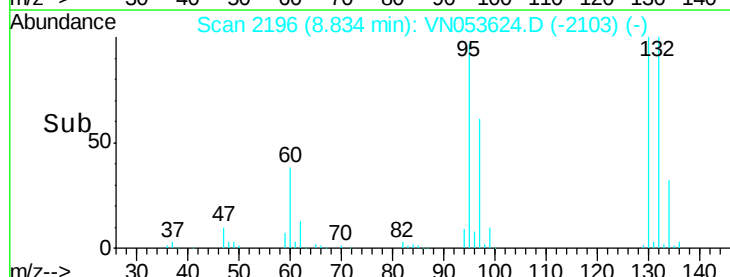
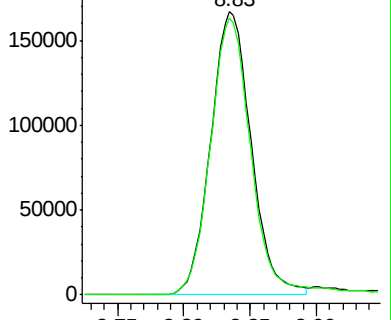
130 100

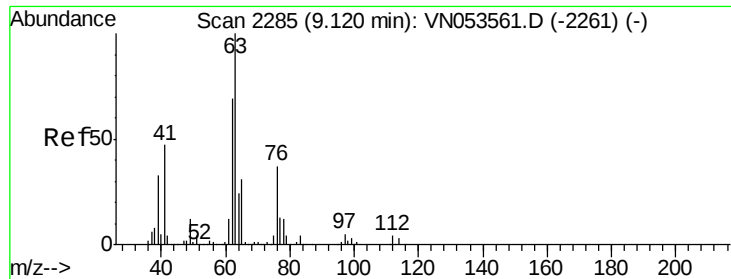
95 97.7 0.0 191.4



Abundance Ion 129.80 (129.50 to 130.50): VN053561.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN053561.D (-2179) (-)

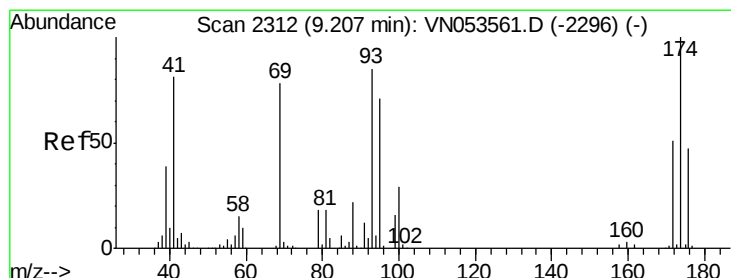
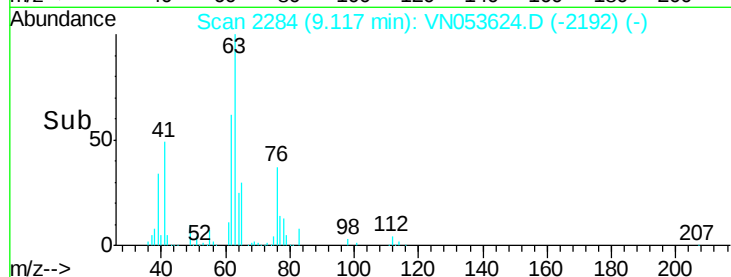
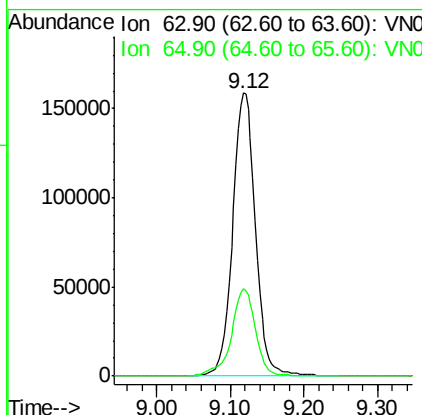
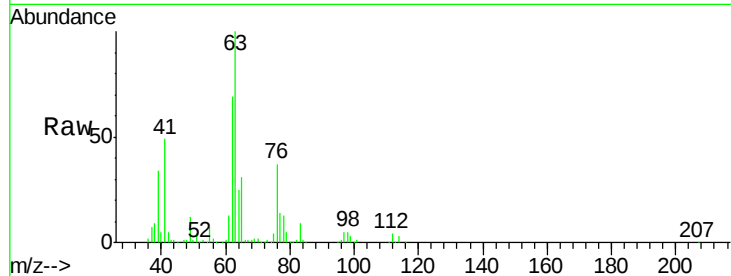




#45
 1,2-Dichloropropane
 Concen: 47.402 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN053624.D
 Acq: 6 Feb 2019 9:58

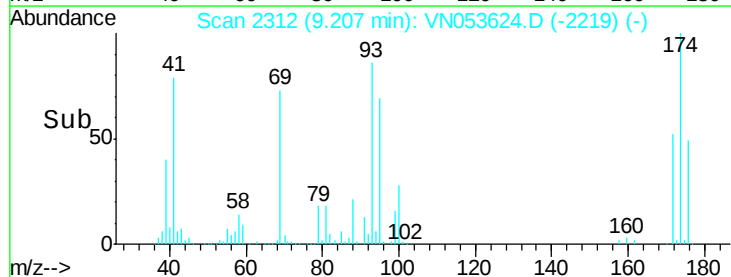
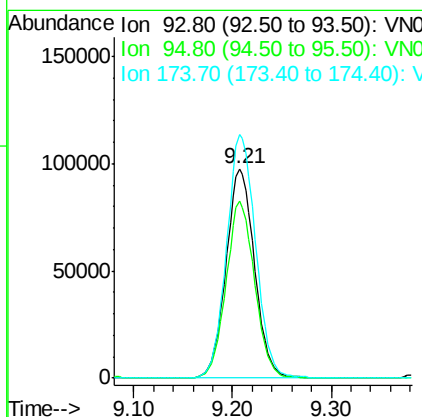
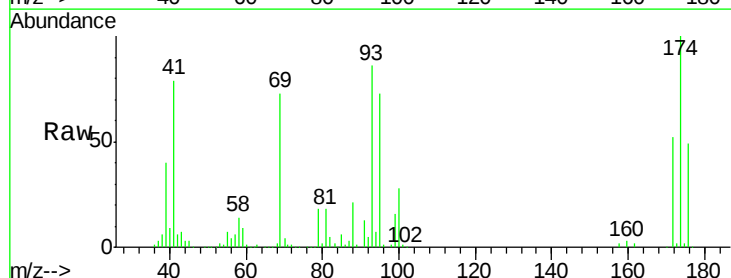
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

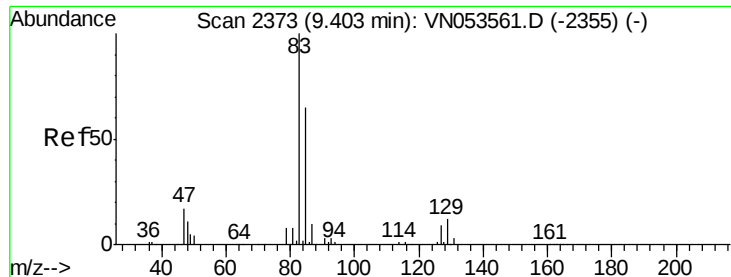
Tot Ion: 63 Resp: 341494
 Ion Ratio Lower Upper
 63 100
 65 30.8 25.0 37.4



#46
 Dibromomethane
 Concen: 45.587 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN053624.D
 Acq: 6 Feb 2019 9:58

Tgt Ion: 93 Resp: 197974
 Ion Ratio Lower Upper
 93 100
 95 84.3 67.3 100.9
 174 117.8 91.0 136.4

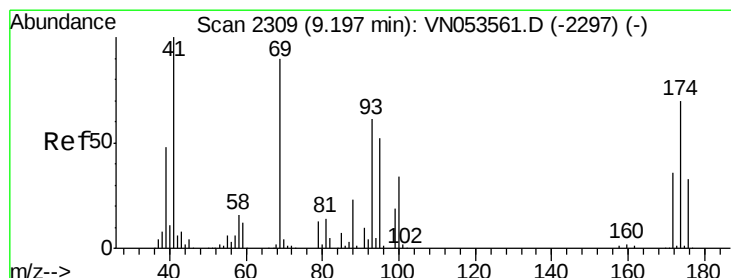
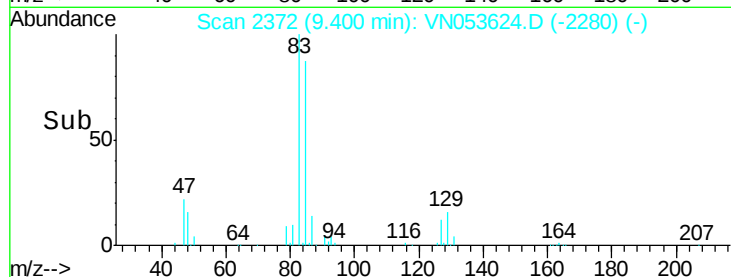
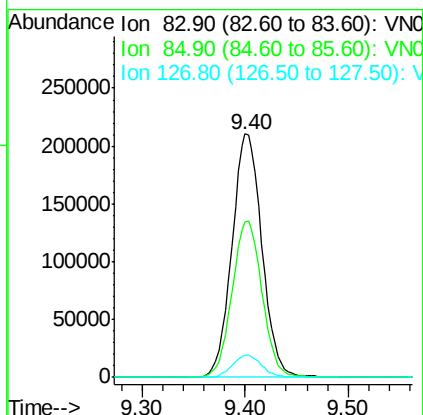
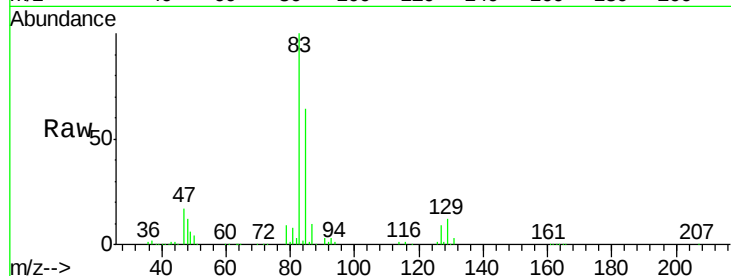




#47
Bromodichloromethane
Concen: 47.107 ug/l
RT: 9.40 min Scan# 2372
Delta R.T. -0.00 min
Lab File: VN053624.D
Acq: 6 Feb 2019 9:58

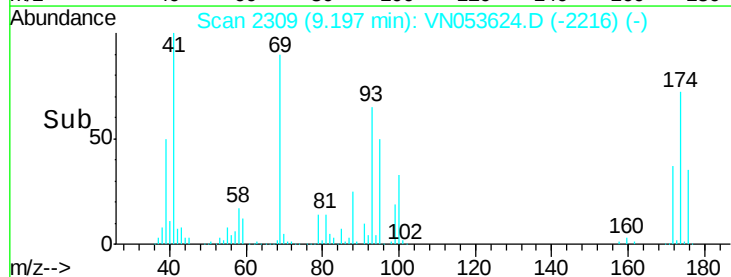
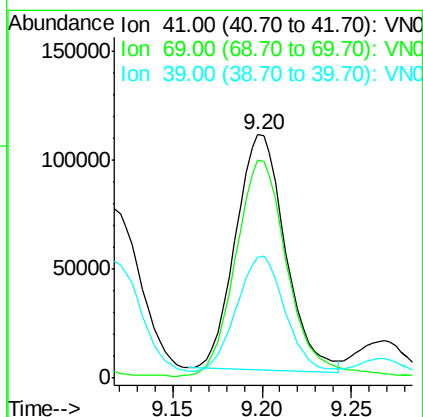
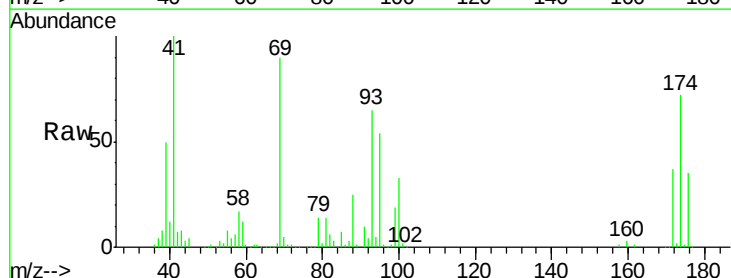
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

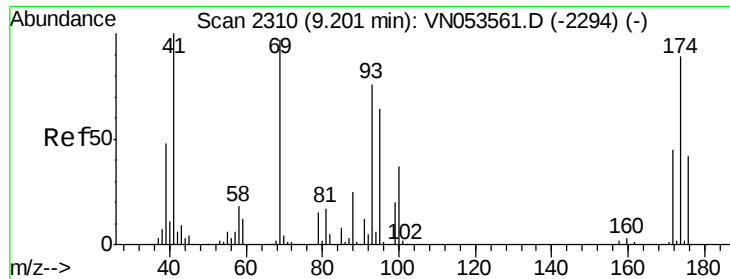
Tot Ion: 83 Resp: 425355
Ion Ratio Lower Upper
83 100
85 63.8 51.0 76.6
127 9.0 7.0 10.6



#48
Methyl methacrylate
Concen: 44.440 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. 0.00 min
Lab File: VN053624.D
Acq: 6 Feb 2019 9:58

Tgt Ion: 41 Resp: 208984
Ion Ratio Lower Upper
41 100
69 98.3 73.8 110.6
39 53.6 40.0 60.0





#49

1,4-Dioxane

Concen: 868.787 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

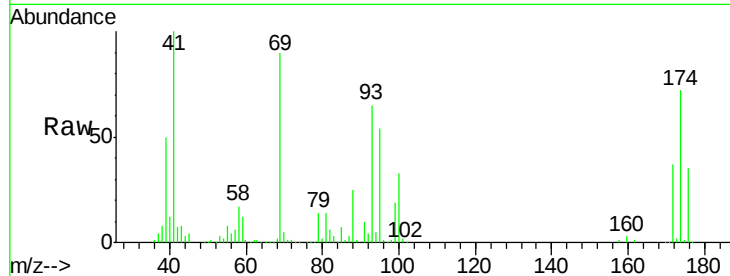
Tot Ion: 88 Resp: 58836

Ion Ratio Lower Upper

88 100

43 30.2 27.8 41.6

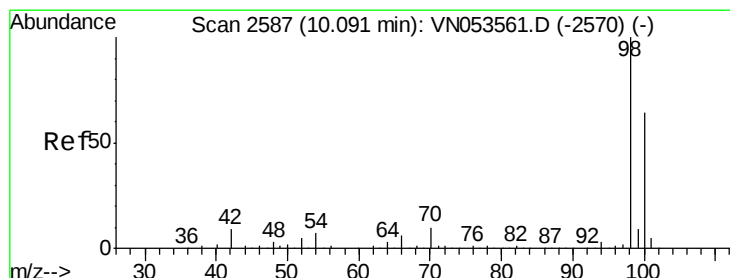
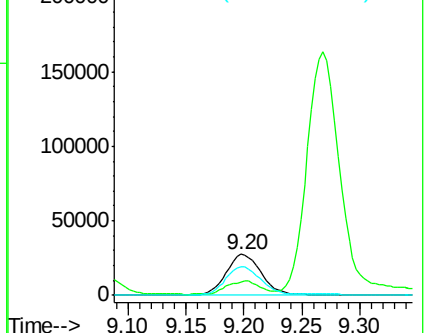
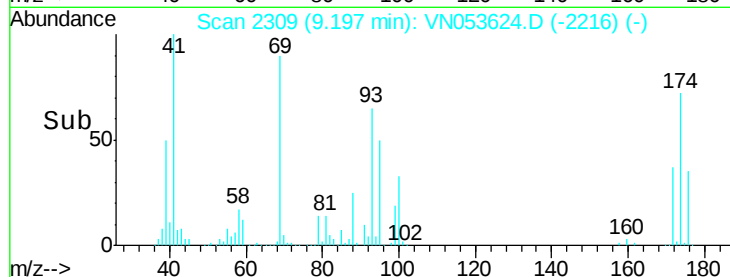
58 70.3 56.5 84.7



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 868.787 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053624.D

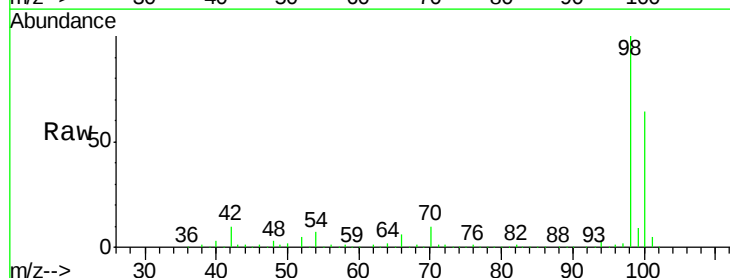
Acq: 6 Feb 2019 9:58

Tgt Ion: 98 Resp: 1406445

Ion Ratio Lower Upper

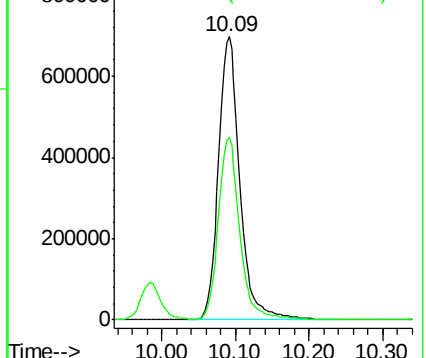
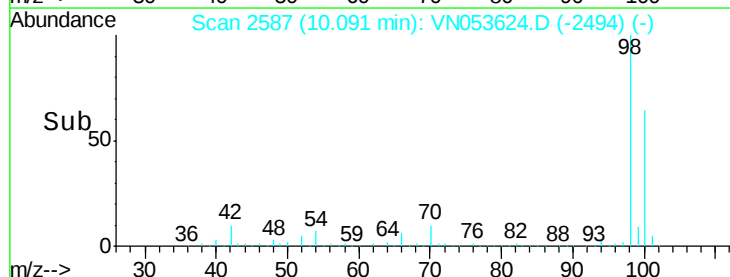
98 100

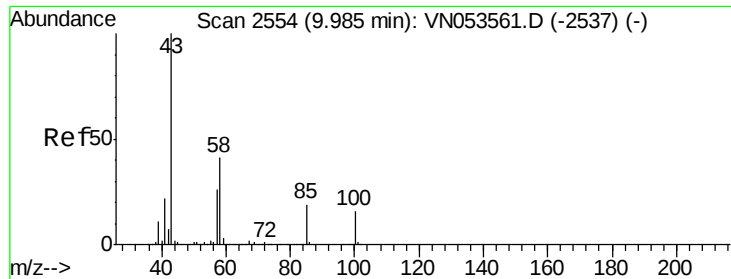
100 64.9 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 230.155 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

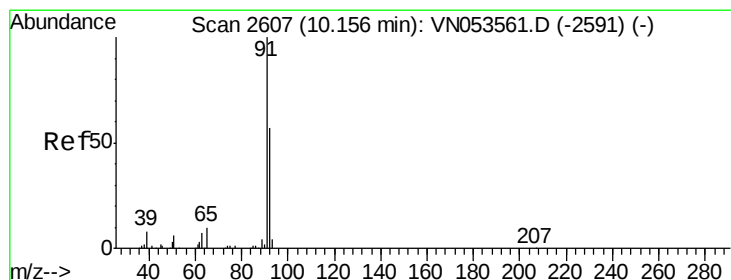
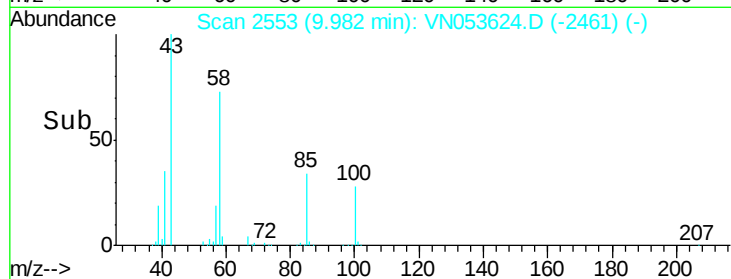
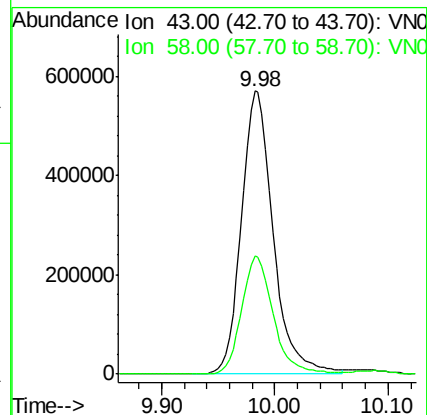
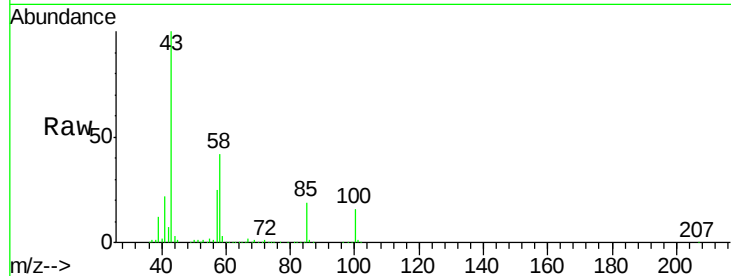
VSTDCCC050

Tot Ion: 43 Resp: 1114209

Ion Ratio Lower Upper

43 100

58 41.6 32.8 49.2



#52

Toluene

Concen: 47.568 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053624.D

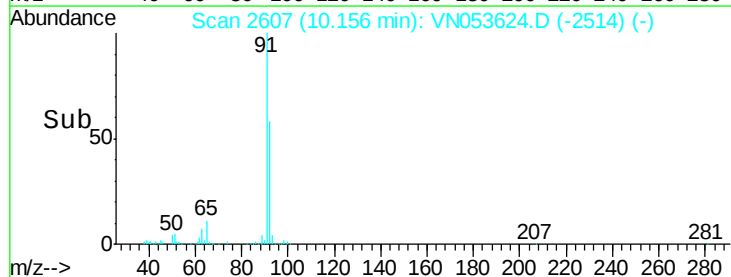
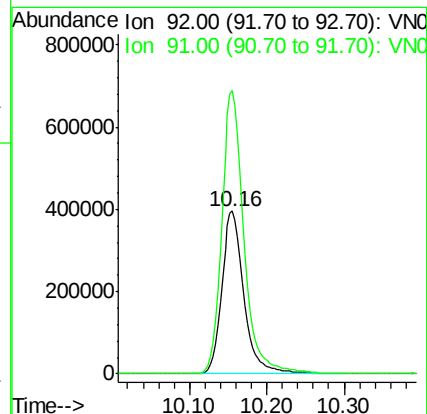
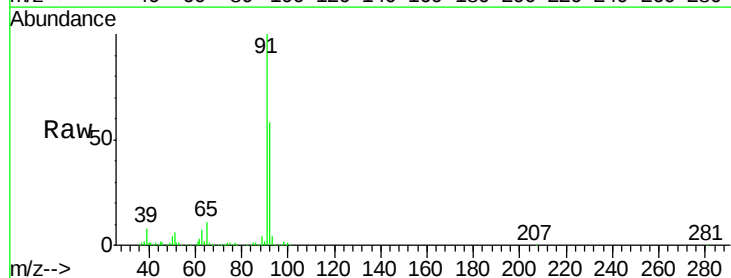
Acq: 6 Feb 2019 9:58

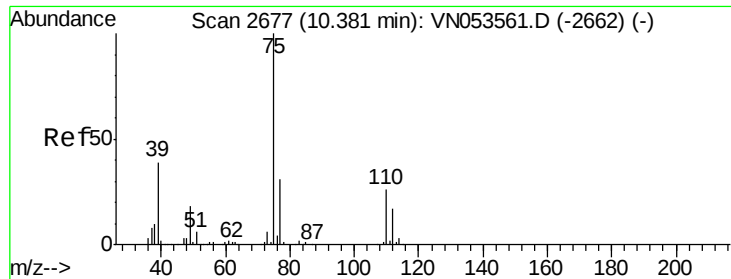
Tgt Ion: 92 Resp: 795169

Ion Ratio Lower Upper

92 100

91 174.0 139.9 209.9





#53

t-1,3-Dichloropropene

Concen: 47.364 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampled :

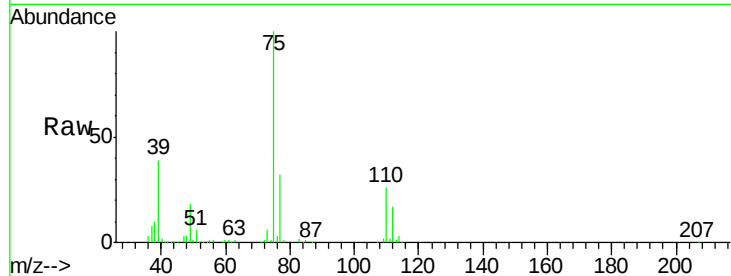
VSTDCCC050

Tot Ion: 75 Resp: 428249

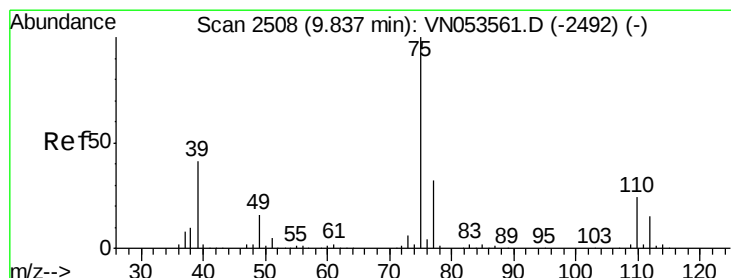
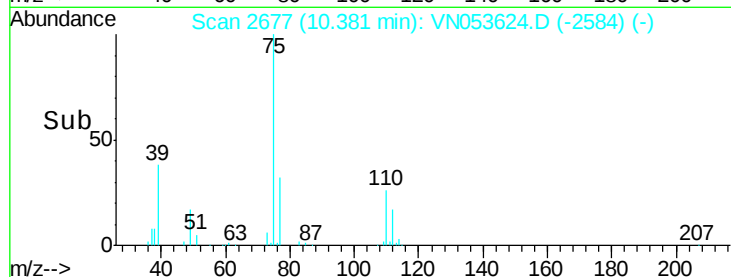
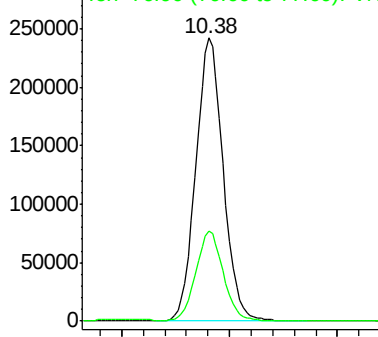
Ion Ratio Lower Upper

75 100

77 31.8 25.5 38.3



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 76.90 (76.60 to 77.60): VNO



#54

cis-1,3-Dichloropropene

Concen: 47.378 ug/l

RT: 9.84 min Scan# 2508

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

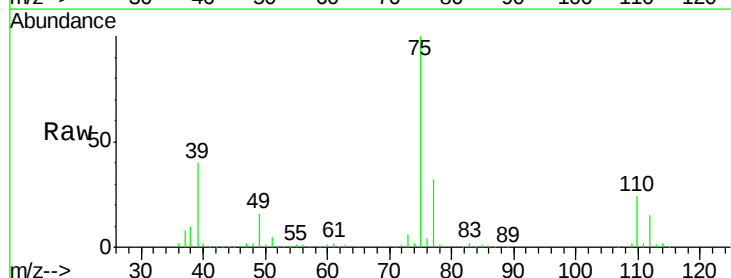
Tgt Ion: 75 Resp: 507623

Ion Ratio Lower Upper

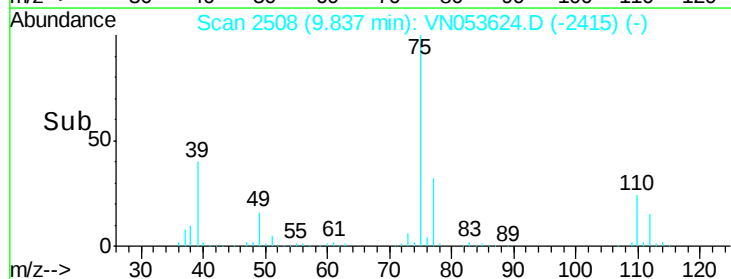
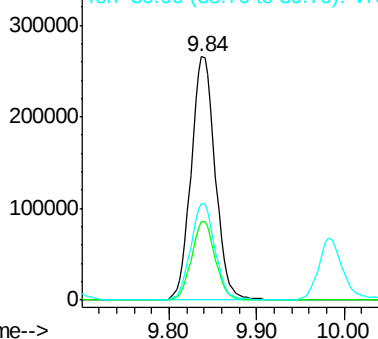
75 100

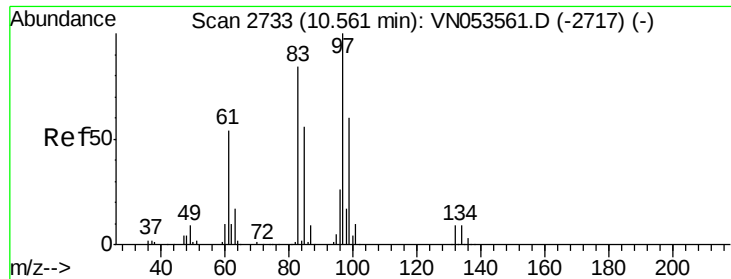
77 32.1 25.8 38.6

39 39.5 33.4 50.0



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 76.90 (76.60 to 77.60): VNO
Ion 39.00 (38.70 to 39.70): VNO





#55

1,1,2-Trichloroethane

Concen: 47.064 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tot Ion: 97 Resp: 283499

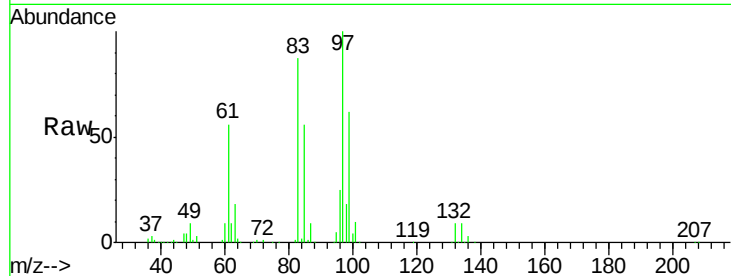
Ion Ratio Lower Upper

97 100

83 86.8 70.1 105.1

85 56.0 45.4 68.0

99 61.9 49.8 74.8

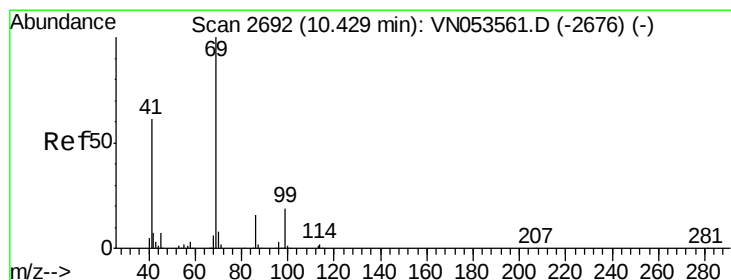
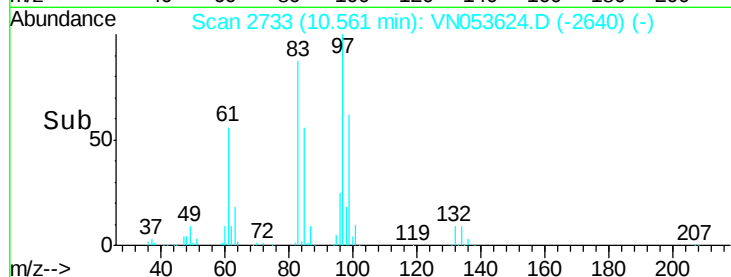
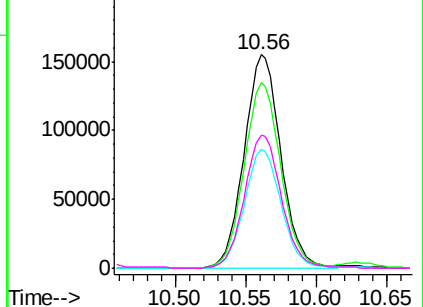


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#56

Ethyl methacrylate

Concen: 47.130 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

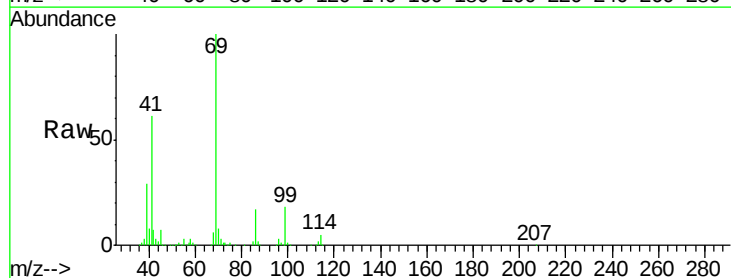
Tgt Ion: 69 Resp: 335846

Ion Ratio Lower Upper

69 100

41 60.7 49.4 74.0

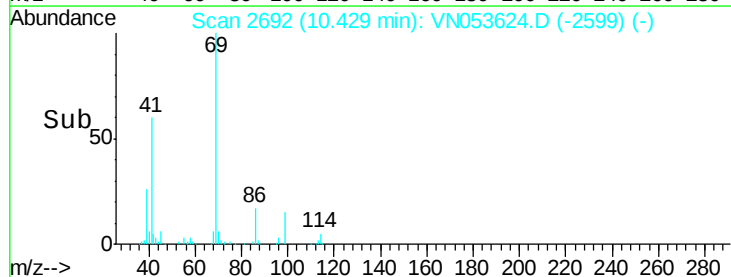
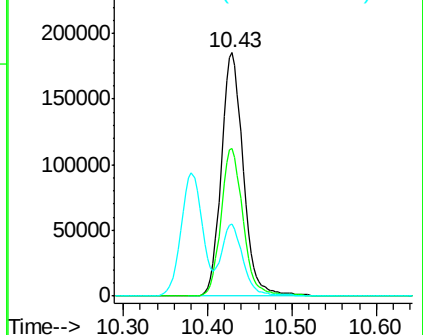
39 29.4 23.3 34.9

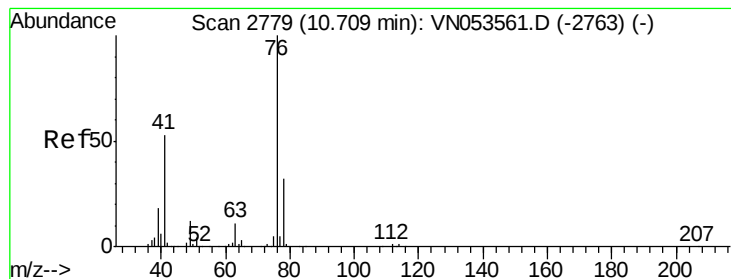


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 46.054 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

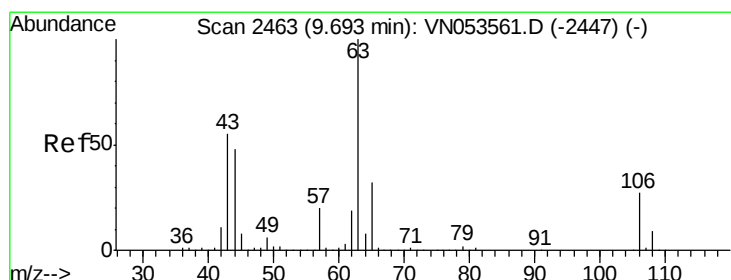
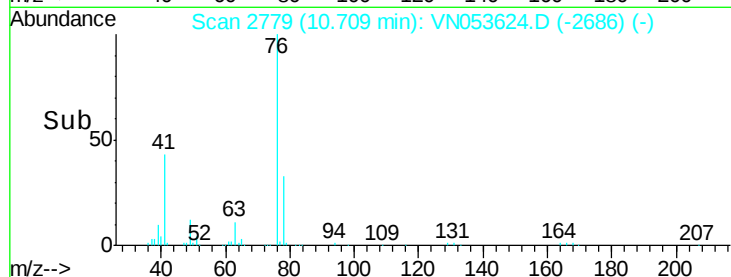
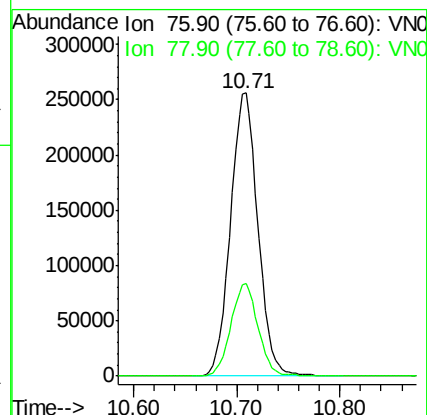
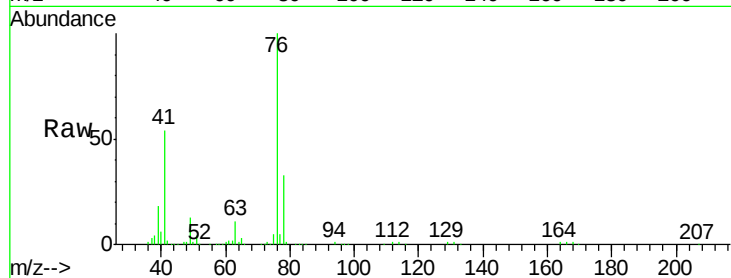
VSTDCCC050

Tot Ion: 76 Resp: 474113

Ion Ratio Lower Upper

76 100

78 32.5 25.6 38.4



#58

2-Chloroethyl Vinyl ether

Concen: 218.271 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VN053624.D

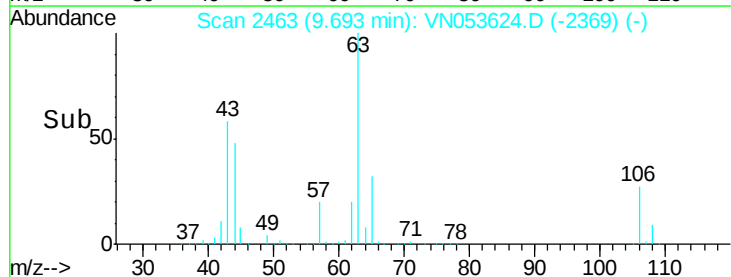
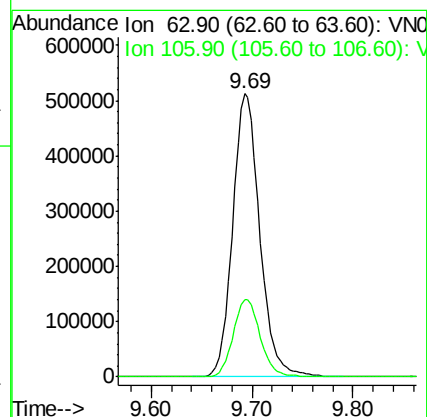
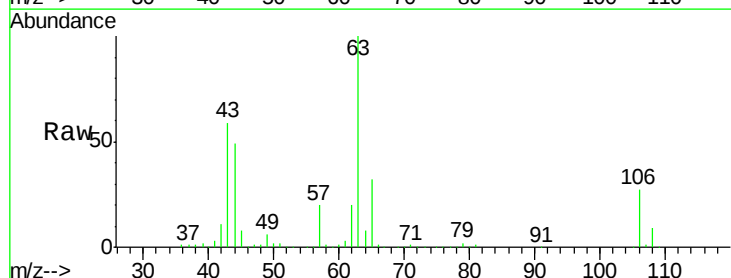
Acq: 6 Feb 2019 9:58

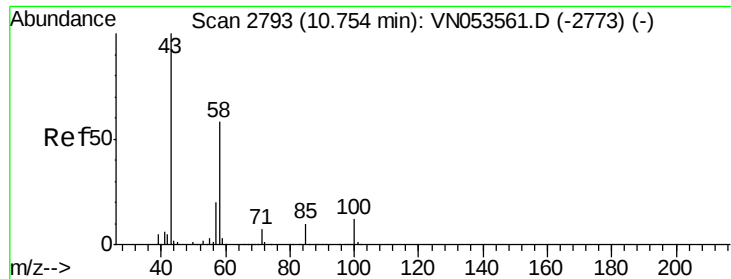
Tgt Ion: 63 Resp: 959980

Ion Ratio Lower Upper

63 100

106 27.4 21.5 32.3

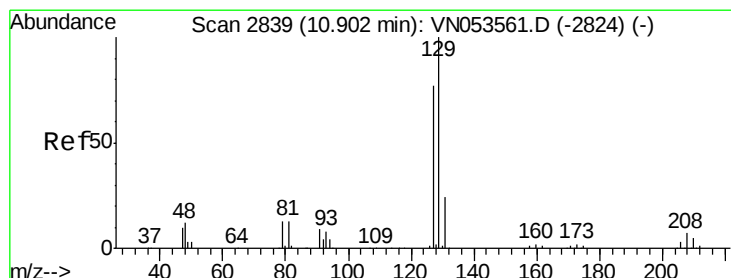
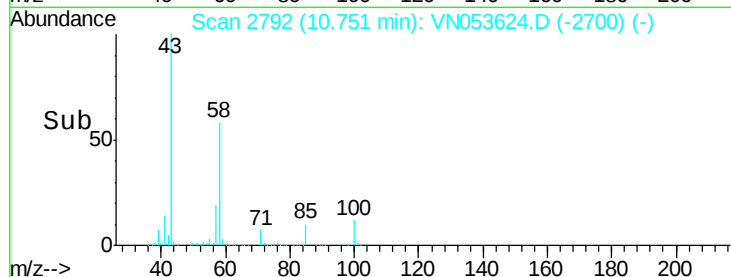
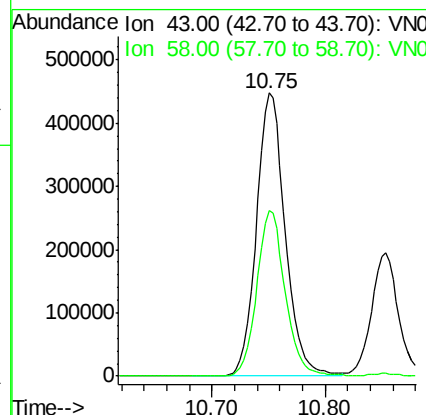
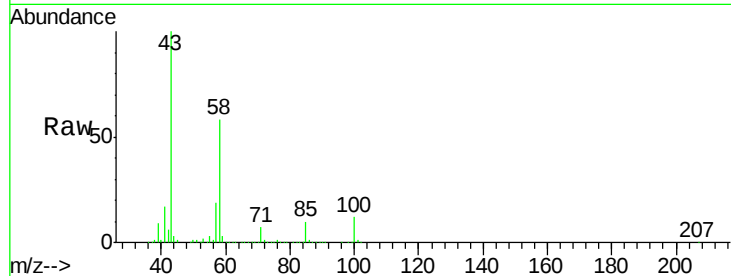




#59
2-Hexanone
Concen: 239.735 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN053624.D
Acq: 6 Feb 2019 9:58

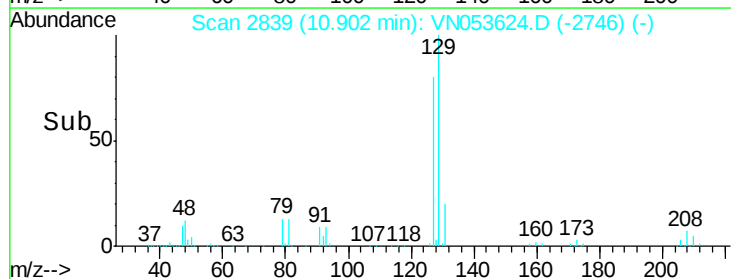
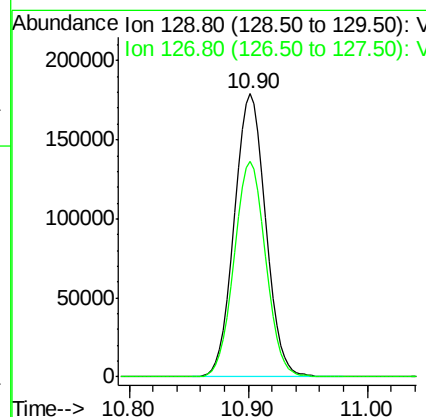
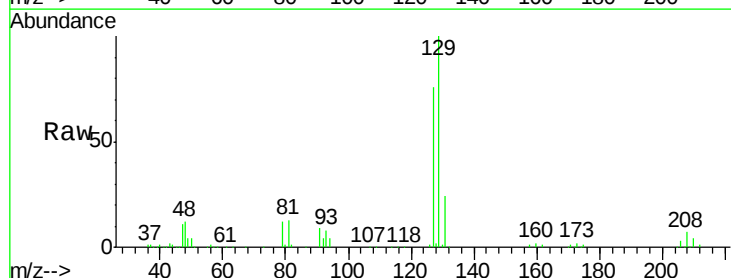
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

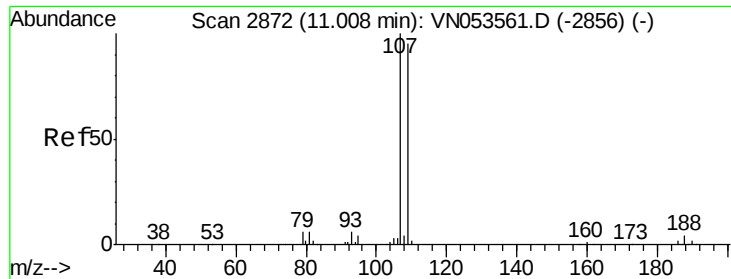
Tot Ion: 43 Resp: 787888
Ion Ratio Lower Upper
43 100
58 57.9 28.6 85.8



#60
Dibromochloromethane
Concen: 48.280 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053624.D
Acq: 6 Feb 2019 9:58

Tgt Ion: 129 Resp: 327954
Ion Ratio Lower Upper
129 100
127 76.3 38.6 115.8





#61

1,2-Dibromoethane

Concen: 45.128 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

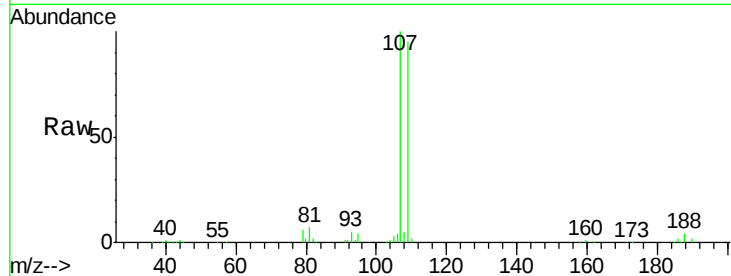
VSTDCCC050

Tot Ion:107 Resp: 269055

Ion Ratio Lower Upper

107 100

109 95.3 75.7 113.5



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

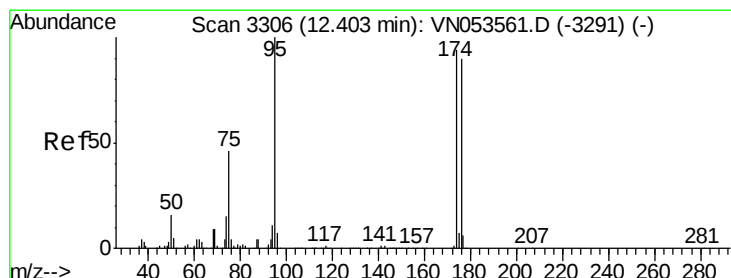
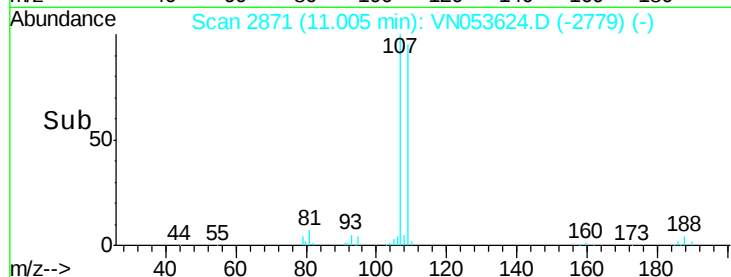
150000

100000

50000

0

Time--> 10.90 11.00 11.10



#62

4-Bromofluorobenzene

Concen: 45.128 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

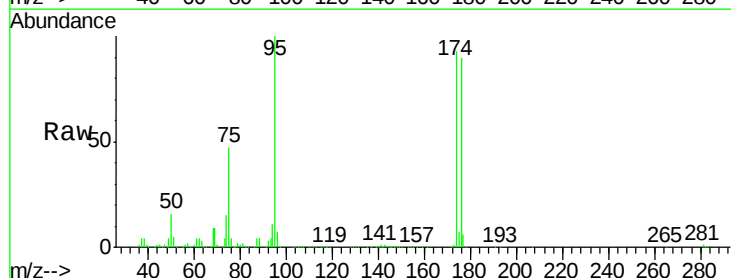
Tgt Ion: 95 Resp: 474175

Ion Ratio Lower Upper

95 100

174 92.8 0.0 183.2

176 89.2 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

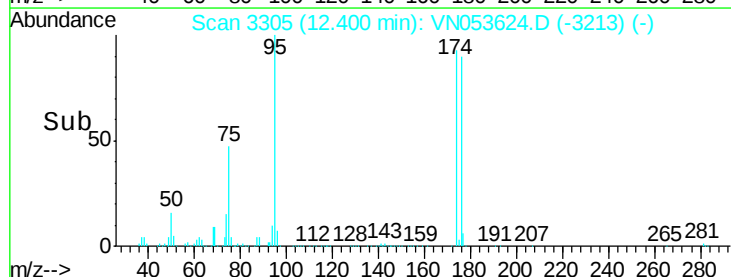
300000

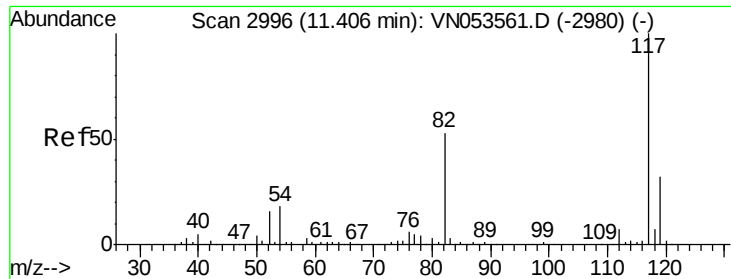
200000

100000

0

Time--> 12.35 12.40 12.45

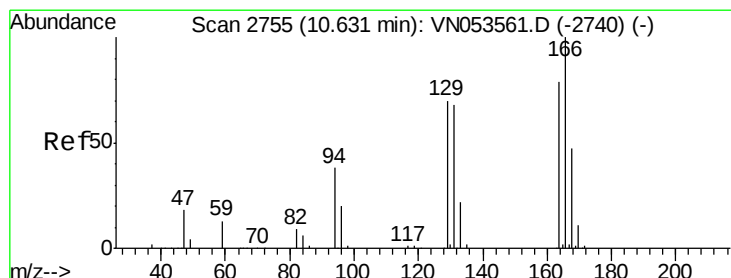
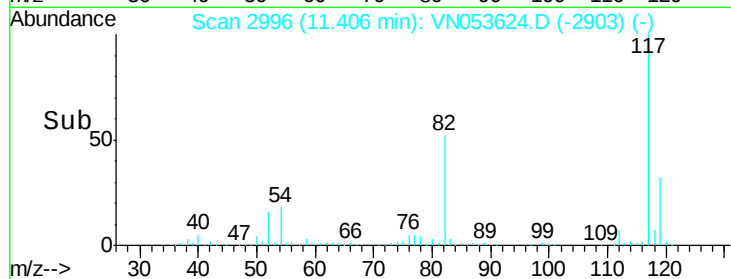
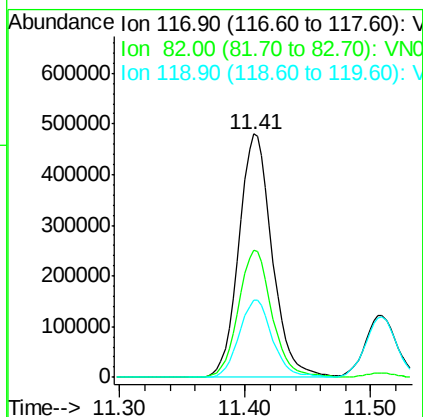
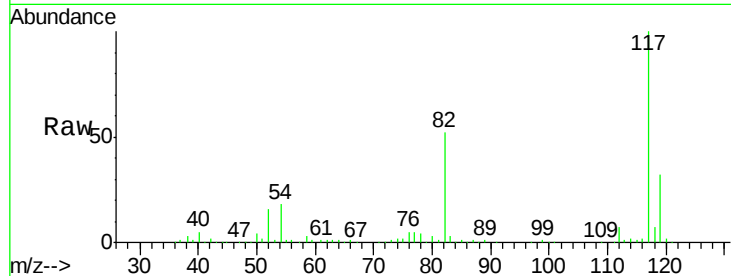




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053624.D
Acq: 6 Feb 2019 9:58

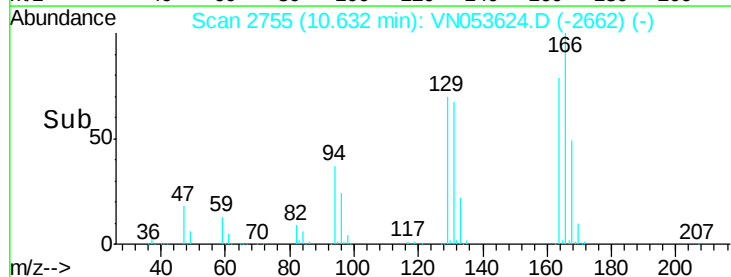
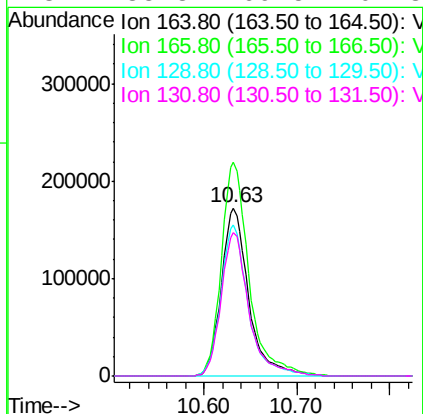
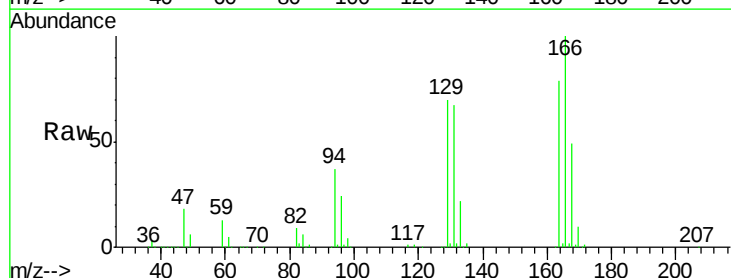
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

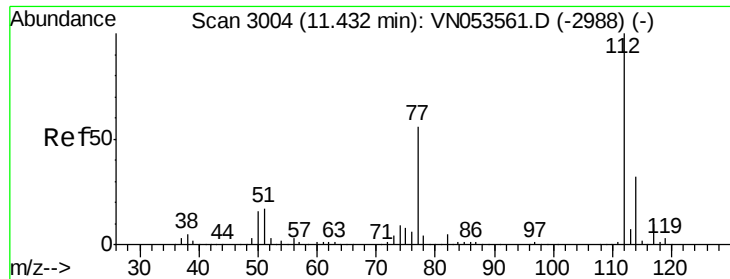
Tot Ion:117 Resp: 886057
Ion Ratio Lower Upper
117 100
82 52.4 42.9 64.3
119 31.6 26.0 39.0



#64
Tetrachloroethene
Concen: 46.555 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053624.D
Acq: 6 Feb 2019 9:58

Tgt Ion:164 Resp: 353607
Ion Ratio Lower Upper
164 100
166 127.4 102.2 153.4
129 89.7 72.6 109.0
131 85.8 69.5 104.3

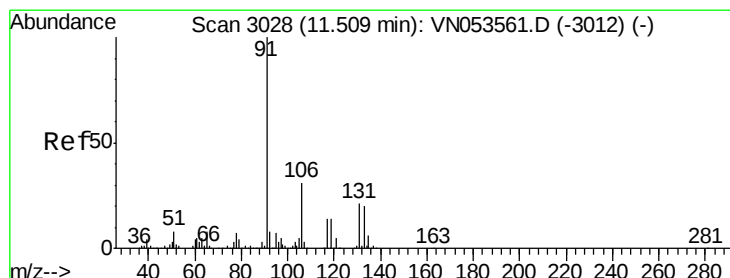
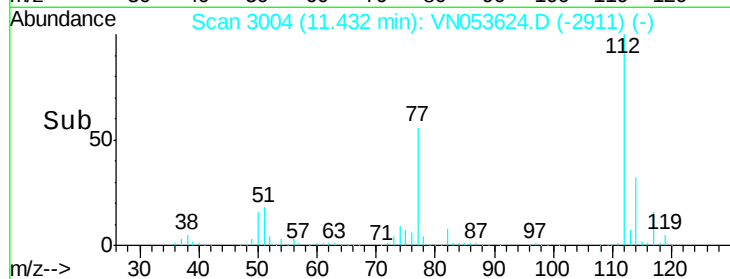
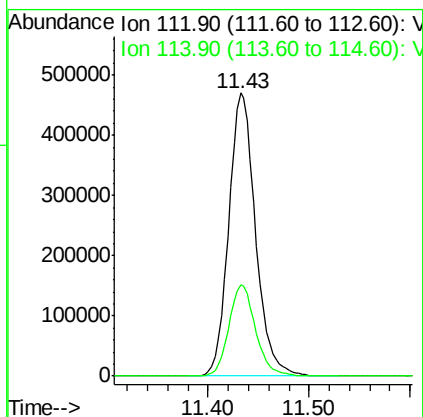
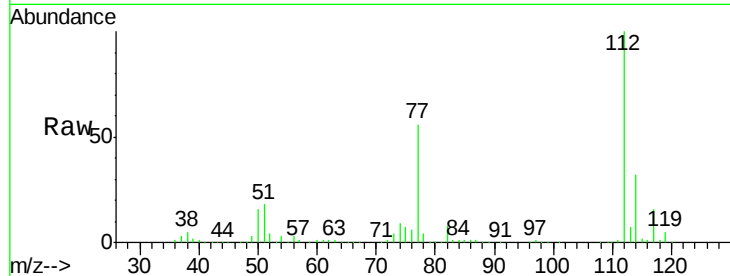




#65
Chlorobenzene
Concen: 46.194 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN053624.D
Acq: 6 Feb 2019 9:58

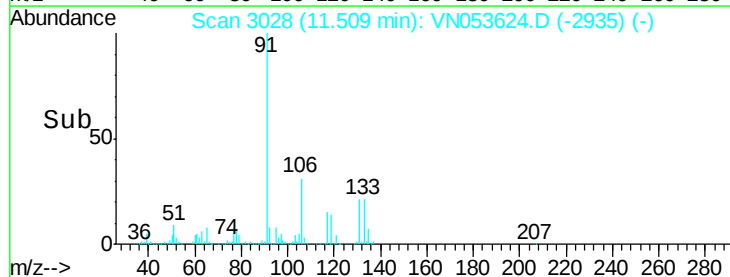
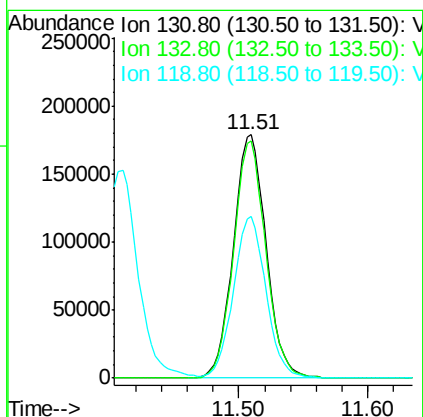
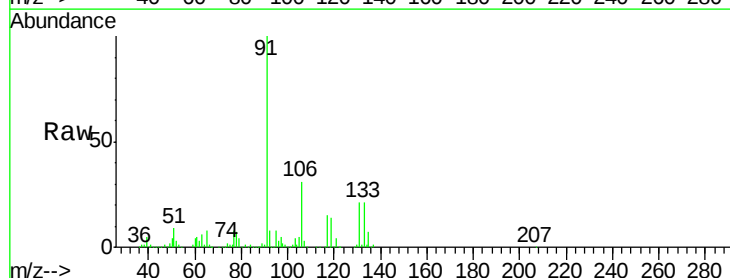
Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

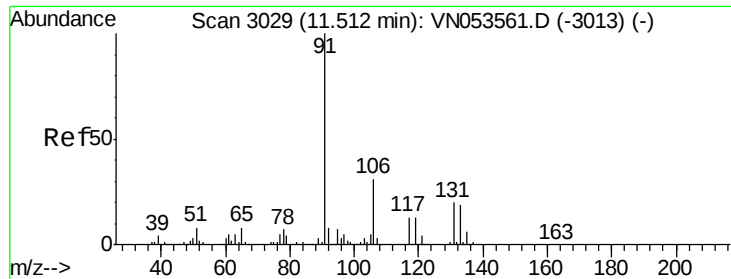
Tot Ion:112 Resp: 869414
Ion Ratio Lower Upper
112 100
114 32.2 25.3 37.9



#66
1,1,1,2-Tetrachloroethane
Concen: 48.037 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN053624.D
Acq: 6 Feb 2019 9:58

Tgt Ion:131 Resp: 315747
Ion Ratio Lower Upper
131 100
133 95.9 48.0 144.0
119 66.0 33.5 100.5

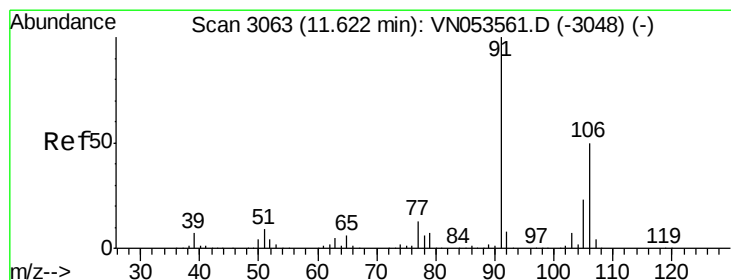
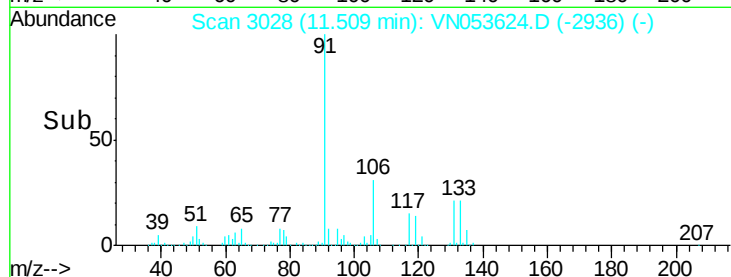
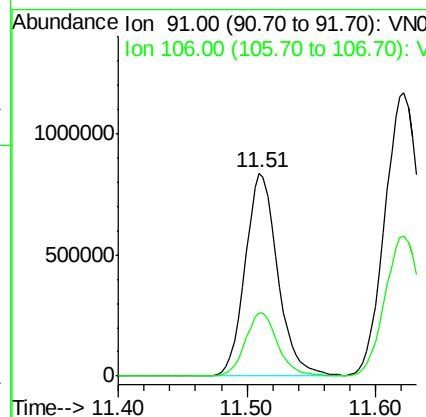
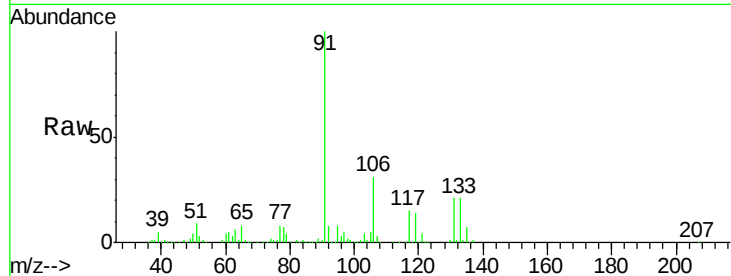




#67
Ethyl Benzene
Concen: 47.434 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN053624.D
Acq: 6 Feb 2019 9:58

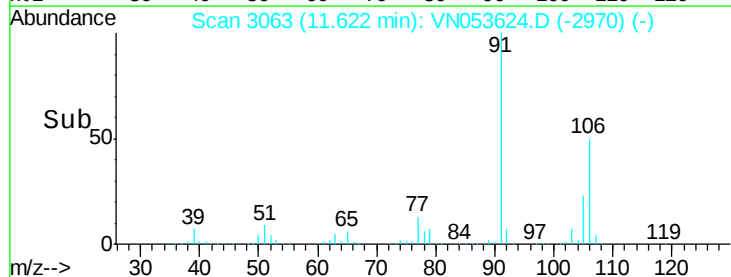
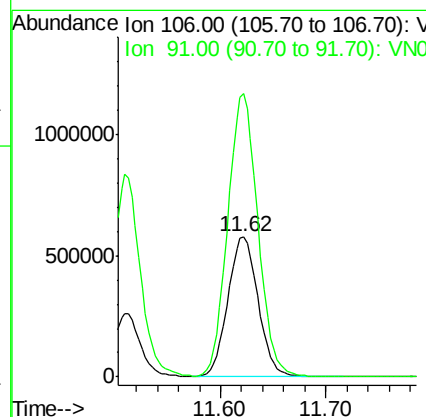
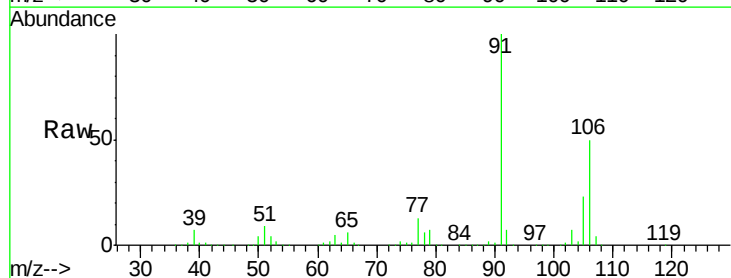
Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050

Tot Ion: 91 Resp: 1466503
Ion Ratio Lower Upper
91 100
106 31.3 25.0 37.6



#68
m/p-Xylenes
Concen: 97.269 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053624.D
Acq: 6 Feb 2019 9:58

Tgt Ion: 106 Resp: 1147752
Ion Ratio Lower Upper
106 100
91 201.0 161.4 242.2

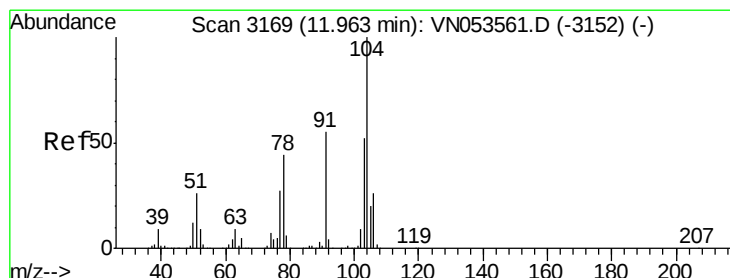
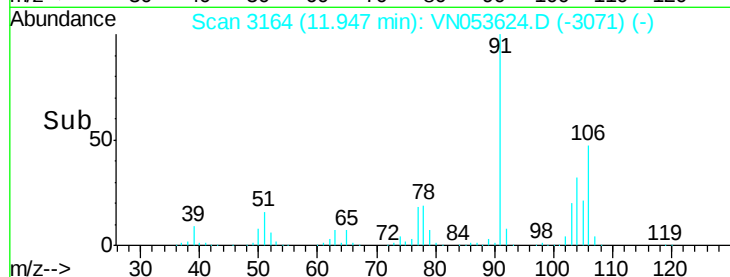
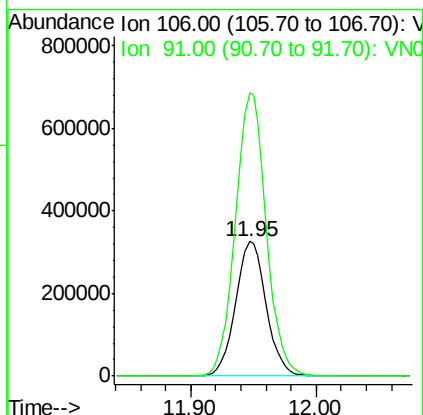
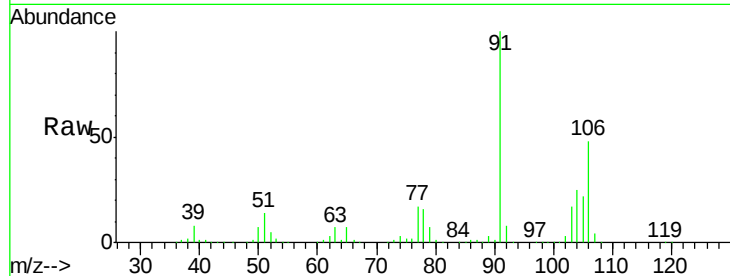




#69
o-Xylene
Concen: 48.460 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN053624.D
Acq: 6 Feb 2019 9:58

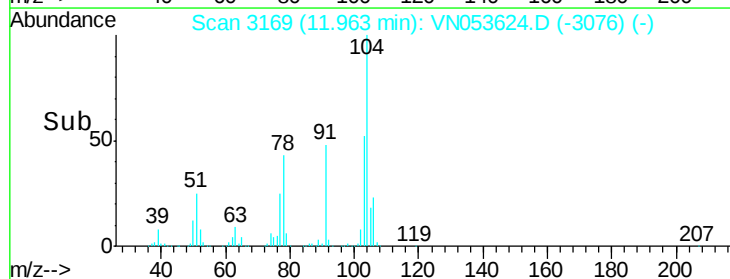
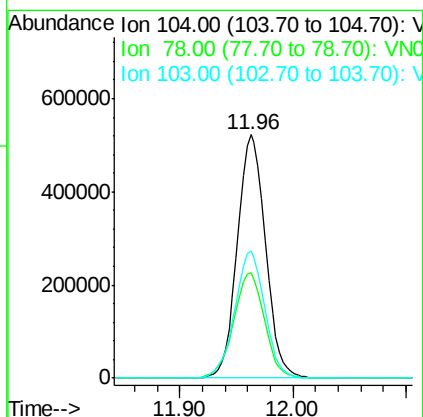
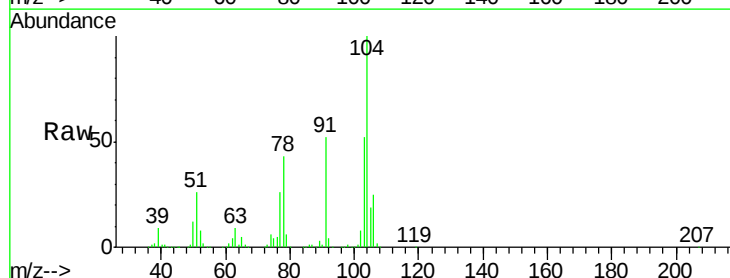
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

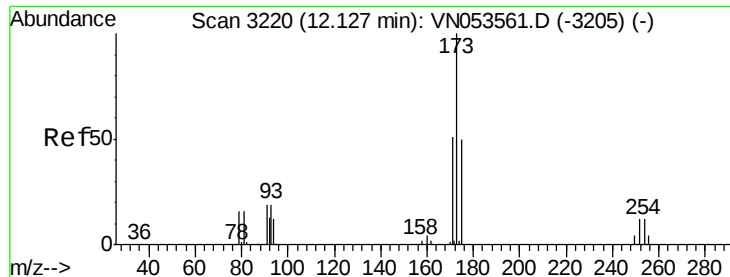
Tot Ion:106 Resp: 552429
Ion Ratio Lower Upper
106 100
91 211.6 106.9 320.8



#70
Styrene
Concen: 49.176 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053624.D
Acq: 6 Feb 2019 9:58

Tgt Ion:104 Resp: 908623
Ion Ratio Lower Upper
104 100
78 47.3 38.2 57.2
103 55.5 44.4 66.6





#71

Bromoform

Concen: 49.461 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

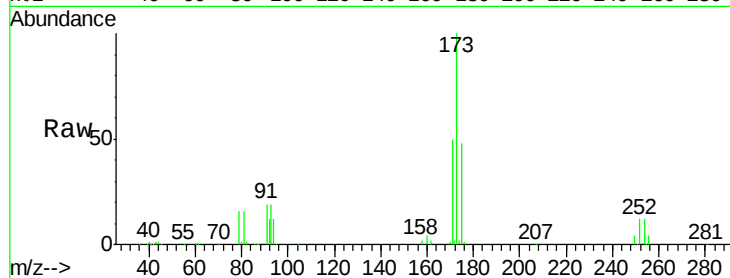
Tot Ion:173 Resp: 222886

Ion Ratio Lower Upper

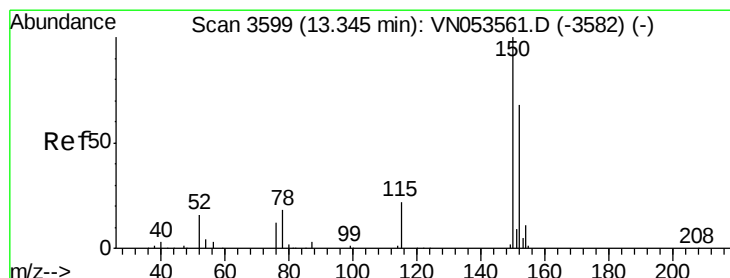
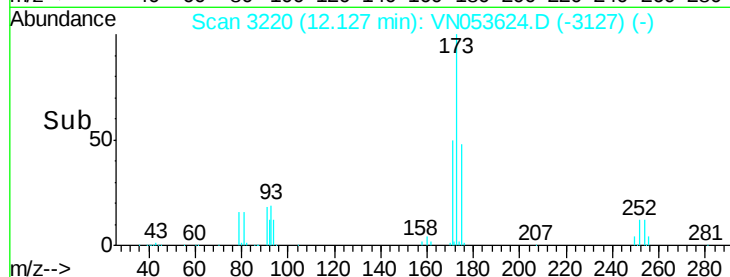
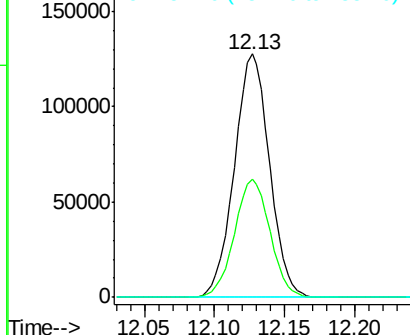
173 100

175 48.8 24.6 74.0

254 0.1 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

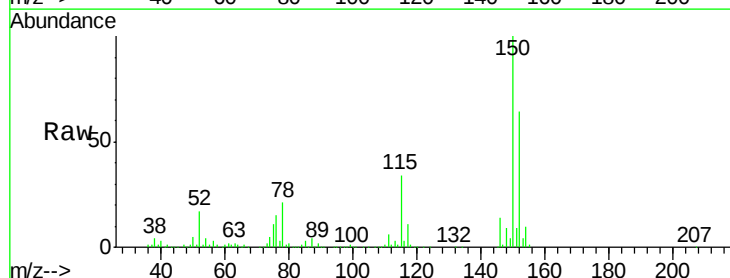
Tgt Ion:152 Resp: 442840

Ion Ratio Lower Upper

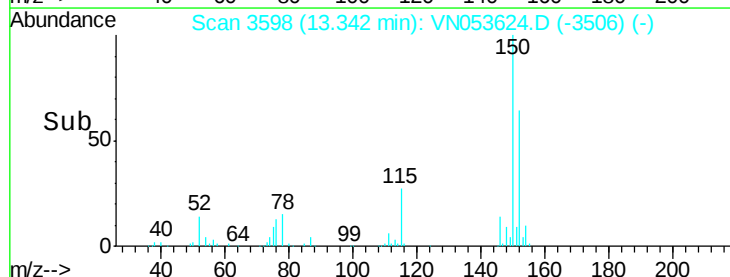
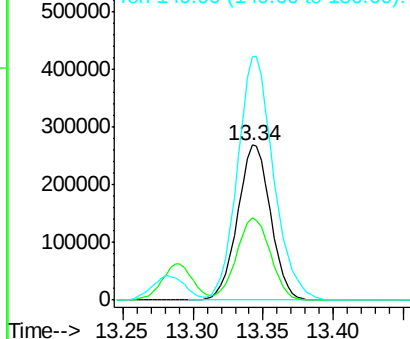
152 100

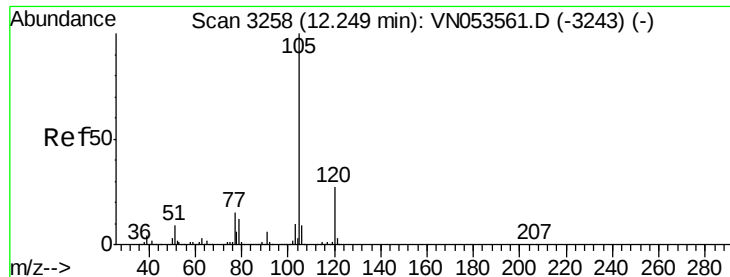
115 54.1 27.8 83.4

150 170.8 0.0 349.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 46.396 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

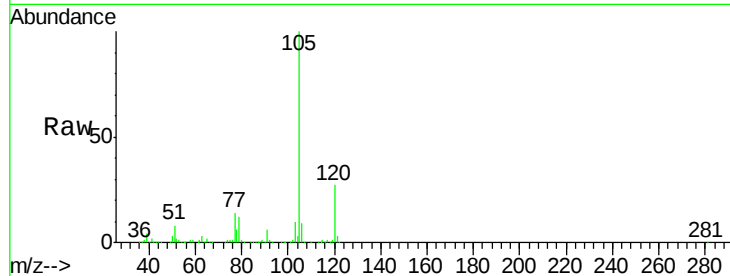
VSTDCCC050

Tot Ion:105 Resp: 1444348

Ion Ratio Lower Upper

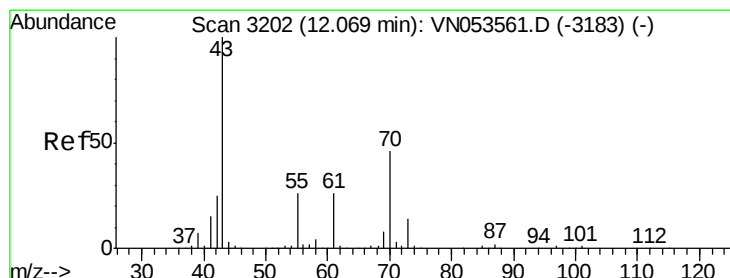
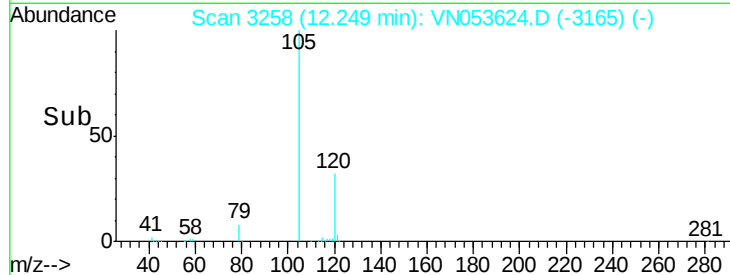
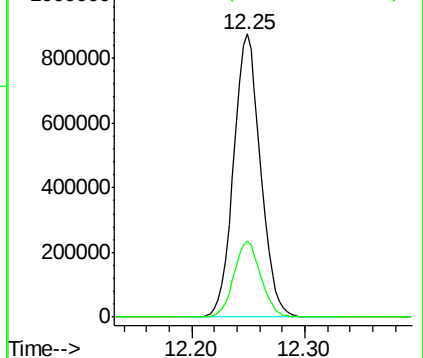
105 100

120 27.0 13.6 40.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 45.603 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Tgt Ion: 43 Resp: 341385

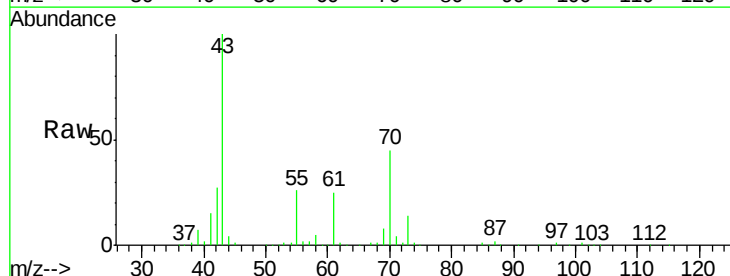
Ion Ratio Lower Upper

43 100

70 45.1 35.4 53.2

55 25.8 20.9 31.3

61 25.5 20.5 30.7

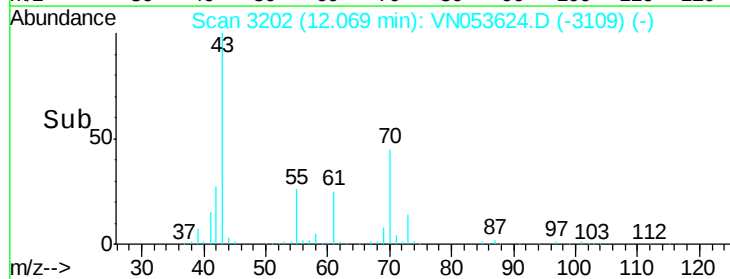
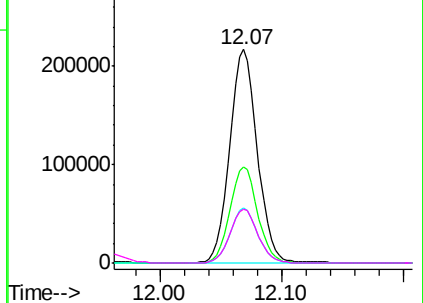


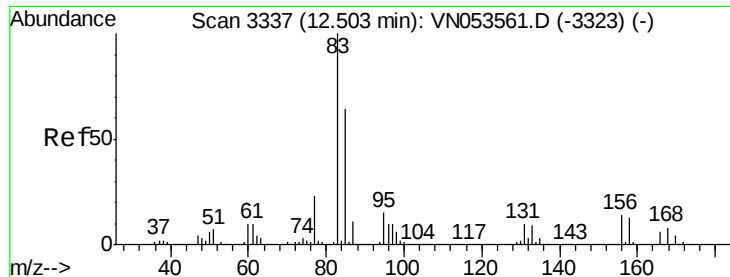
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 43.113 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

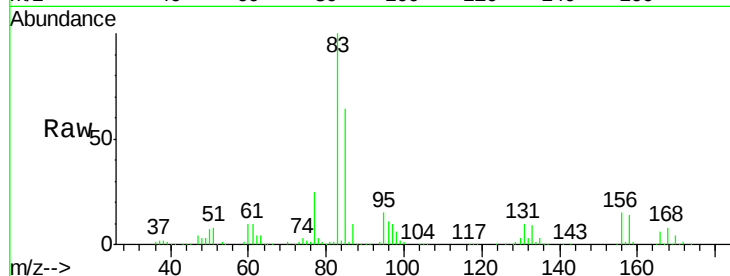
Tot Ion: 83 Resp: 321214

Ion Ratio Lower Upper

83 100

131 10.9 5.3 15.8

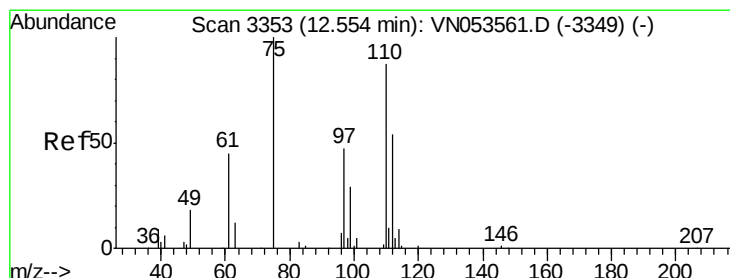
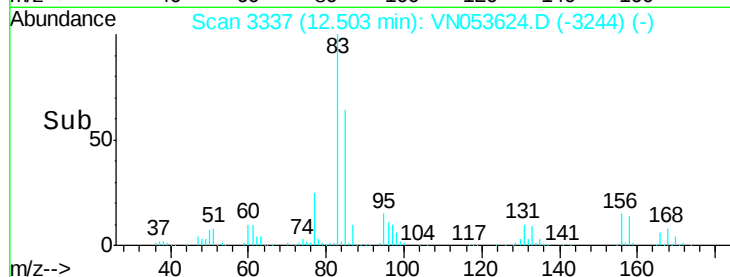
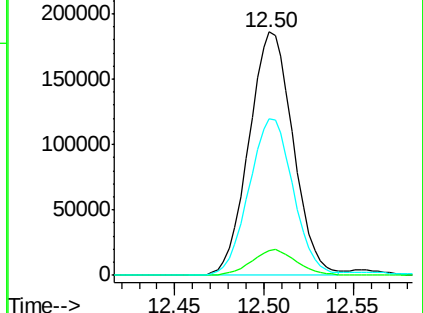
85 64.6 32.1 96.3



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 70.336 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN053624.D

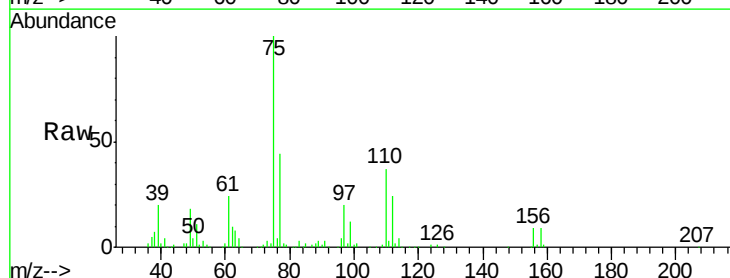
Acq: 6 Feb 2019 9:58

Tgt Ion: 75 Resp: 400070

Ion Ratio Lower Upper

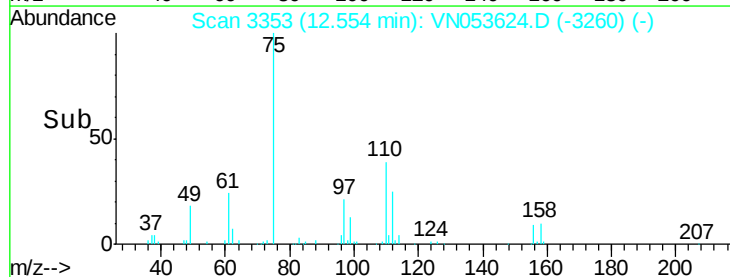
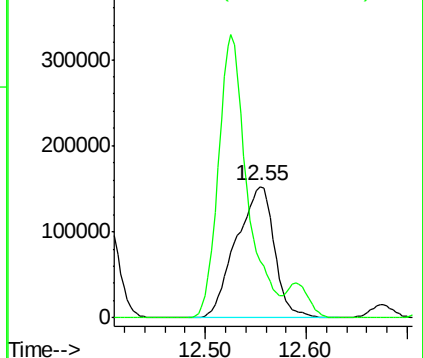
75 100

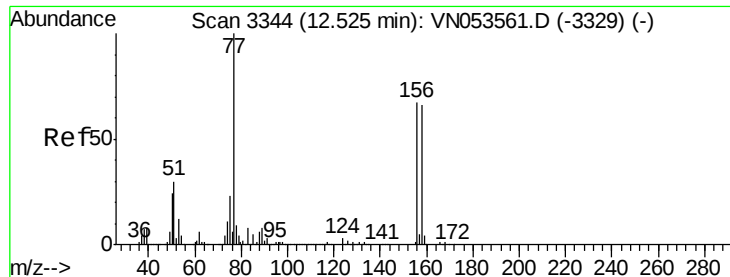
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 44.938 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

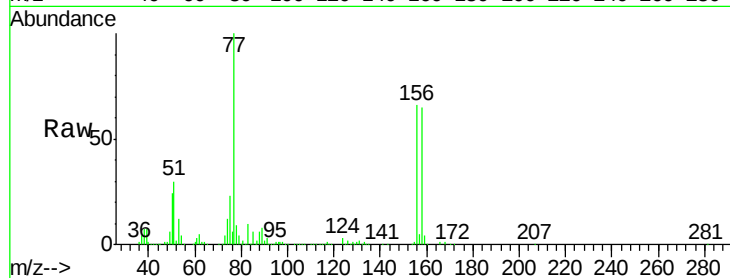
Tot Ion:156 Resp: 377034

Ion Ratio Lower Upper

156 100

77 173.1 87.9 263.8

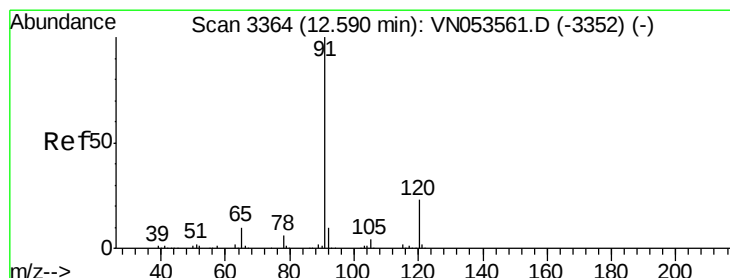
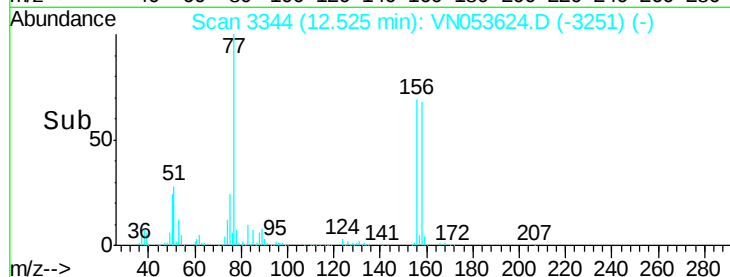
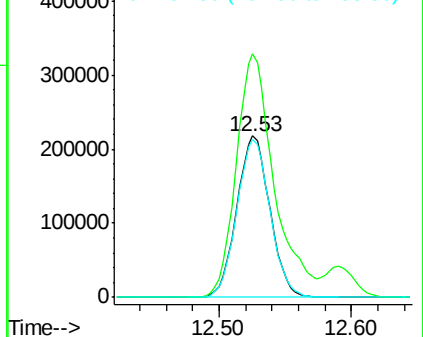
158 98.4 48.8 146.4



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 47.430 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN053624.D

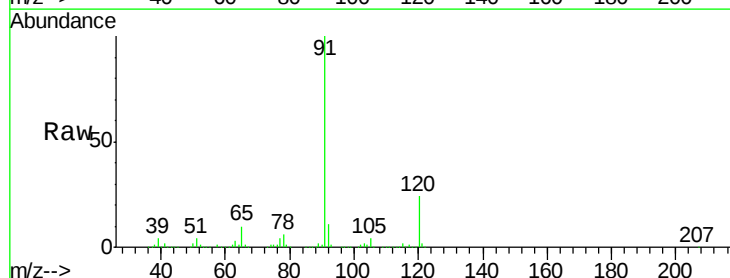
Acq: 6 Feb 2019 9:58

Tgt Ion: 91 Resp: 1706919

Ion Ratio Lower Upper

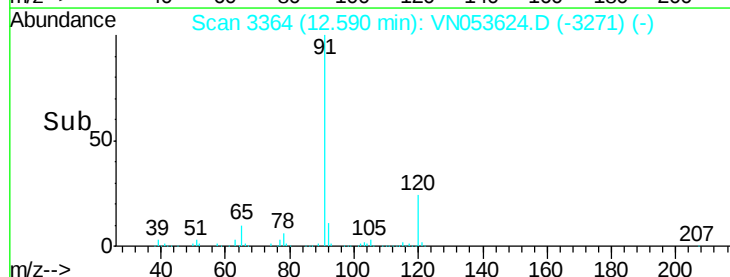
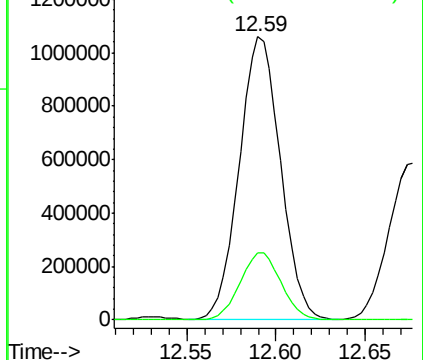
91 100

120 23.8 11.9 35.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 46.254 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

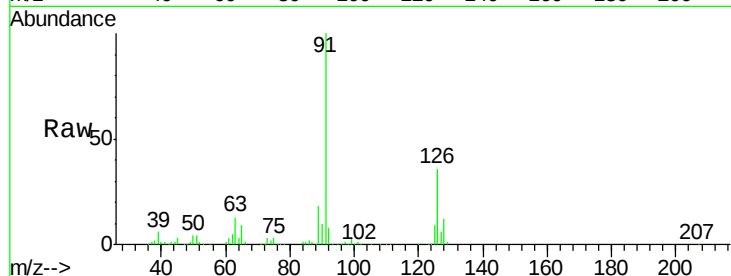
VSTDCCC050

Tot Ion: 91 Resp: 987571

Ion Ratio Lower Upper

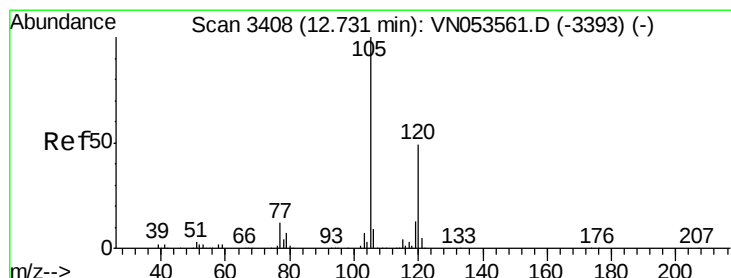
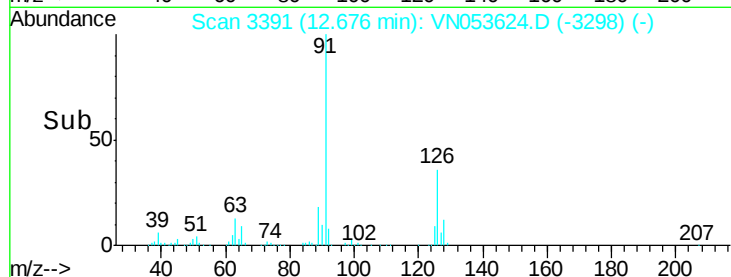
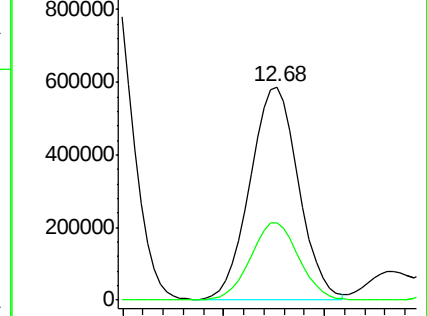
91 100

126 36.4 17.9 53.7



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 48.798 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053624.D

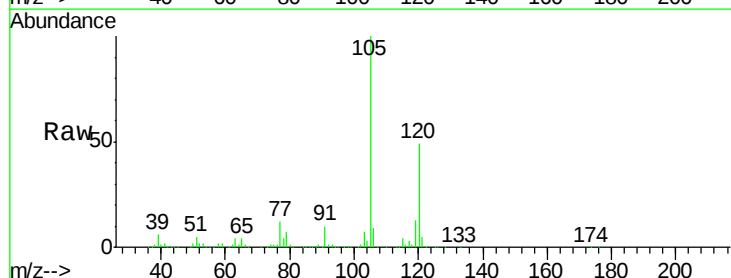
Acq: 6 Feb 2019 9:58

Tgt Ion:105 Resp: 1259725

Ion Ratio Lower Upper

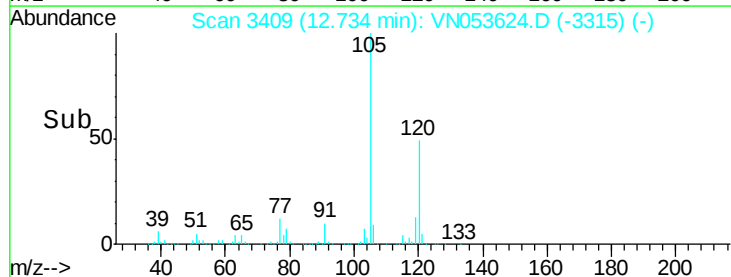
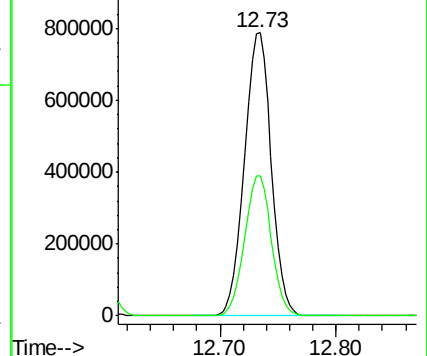
105 100

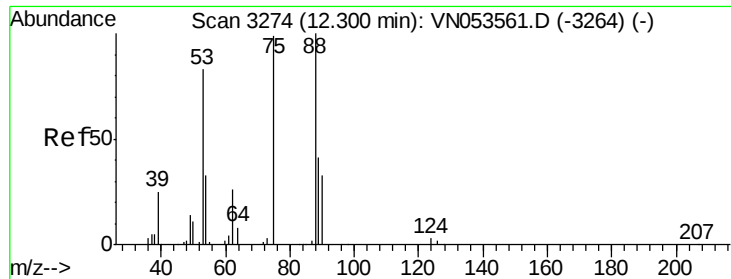
120 49.4 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 44.586 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

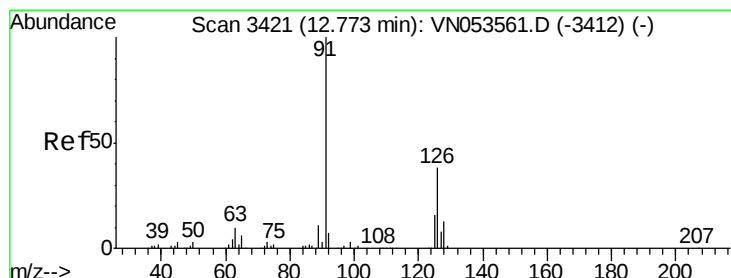
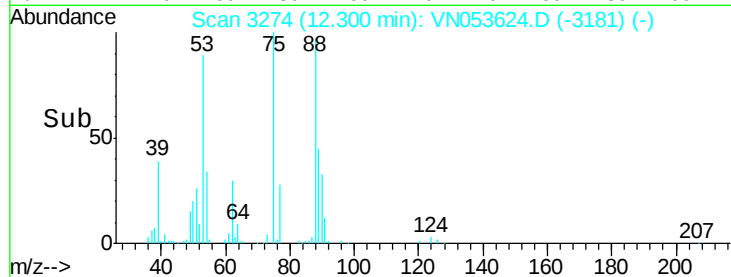
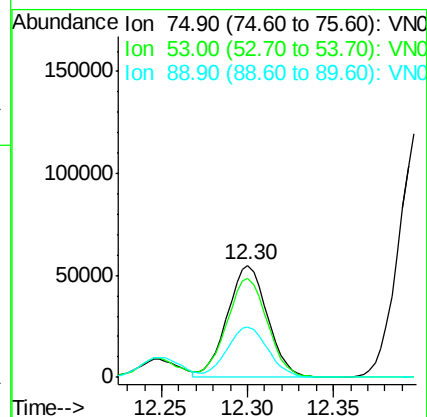
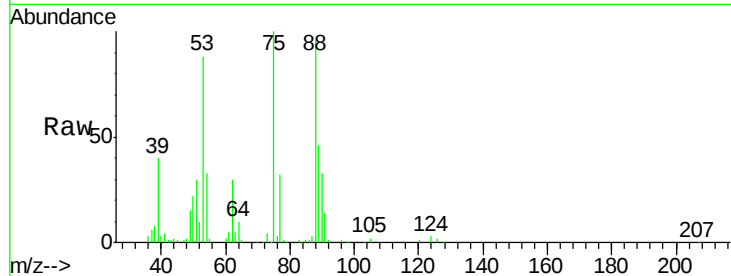
Tot Ion: 75 Resp: 90189

Ion Ratio Lower Upper

75 100

53 88.6 69.8 104.6

89 45.9 35.6 53.4



#82

4-Chlorotoluene

Concen: 46.567 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN053624.D

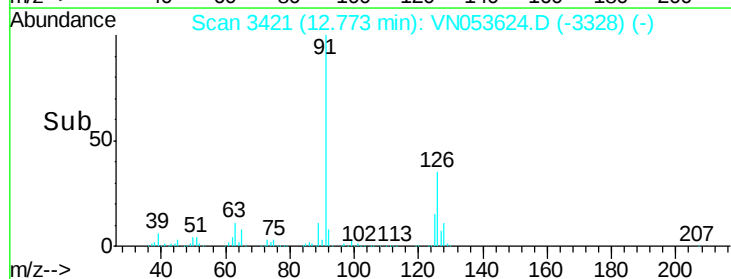
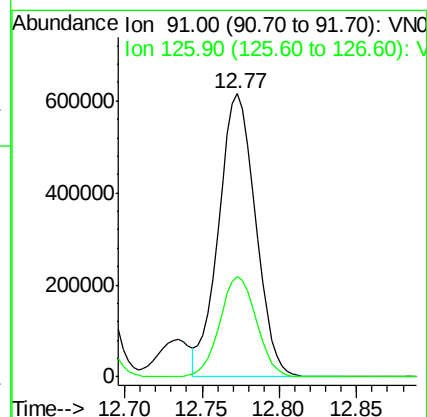
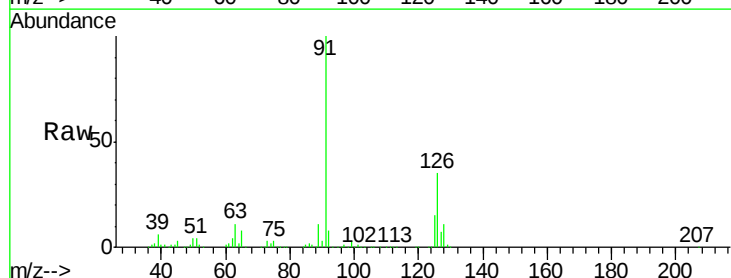
Acq: 6 Feb 2019 9:58

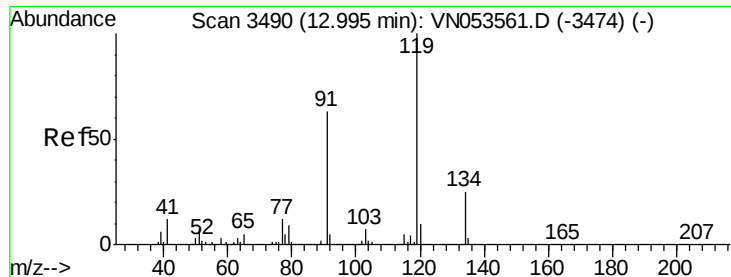
Tgt Ion: 91 Resp: 1020238

Ion Ratio Lower Upper

91 100

126 35.2 17.6 52.9

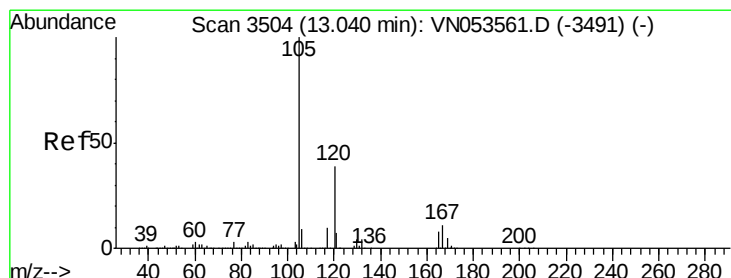
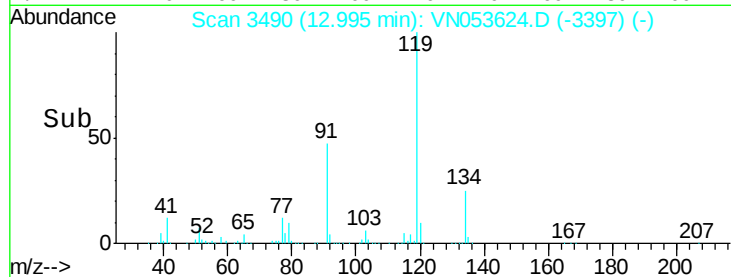
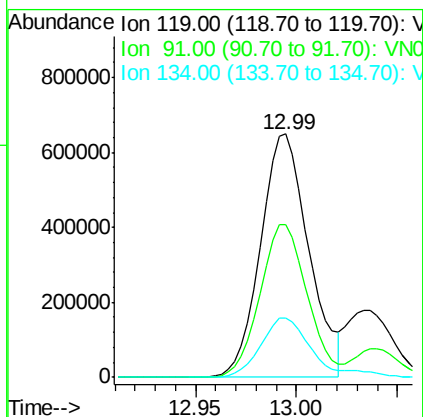
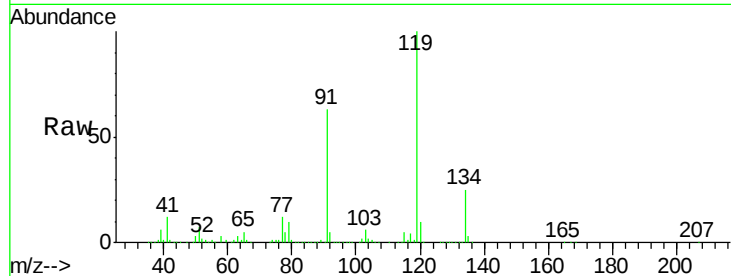




#83
 tert-Butylbenzene
 Concen: 47.434 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN053624.D
 Acq: 6 Feb 2019 9:58

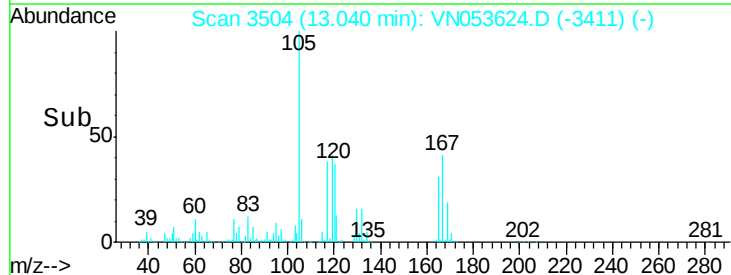
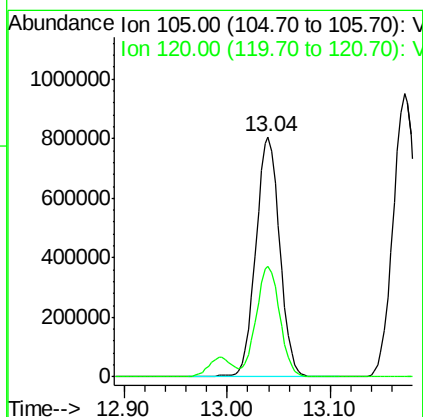
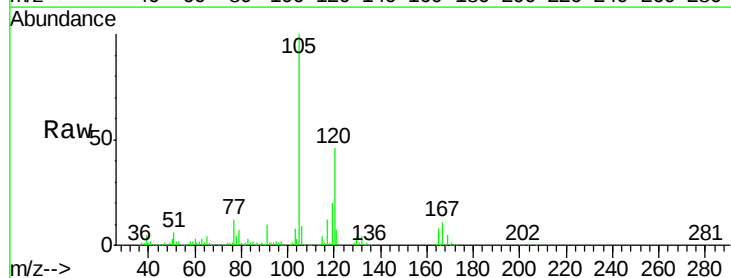
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

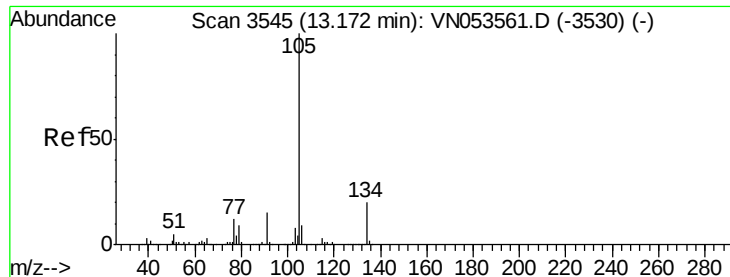
Tot Ion:119 Resp: 1082250
 Ion Ratio Lower Upper
 119 100
 91 61.1 31.3 93.8
 134 26.1 12.9 38.7



#84
 1,2,4-Trimethylbenzene
 Concen: 48.939 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN053624.D
 Acq: 6 Feb 2019 9:58

Tgt Ion:105 Resp: 1287152
 Ion Ratio Lower Upper
 105 100
 120 46.1 23.0 69.0





#85

sec-Butylbenzene

Concen: 48.450 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

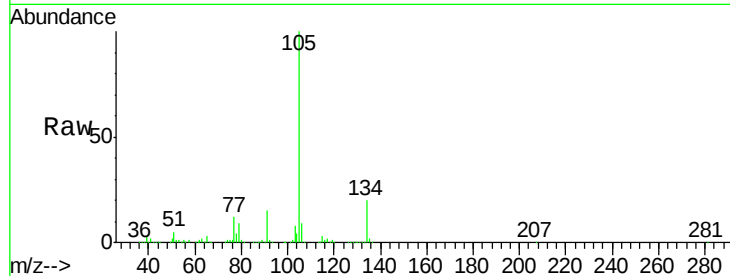
VSTDCCC050

Tot Ion:105 Resp: 1504302

Ion Ratio Lower Upper

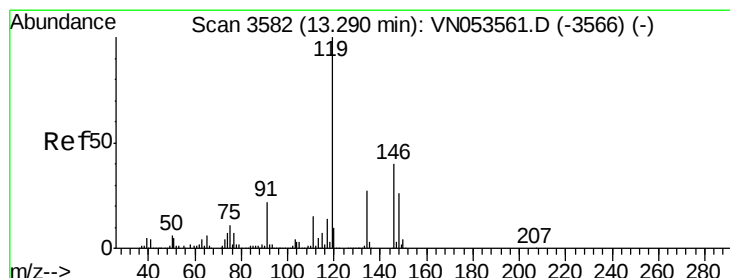
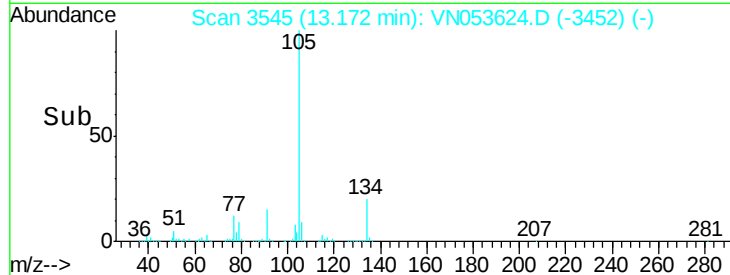
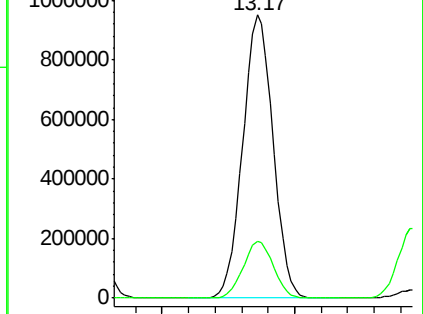
105 100

134 20.2 10.2 30.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 48.960 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

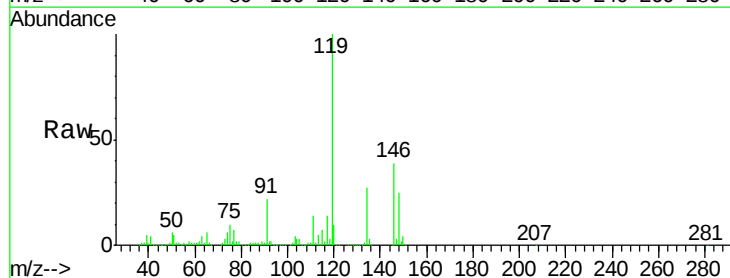
Tgt Ion:119 Resp: 1329476

Ion Ratio Lower Upper

119 100

134 27.3 13.5 40.4

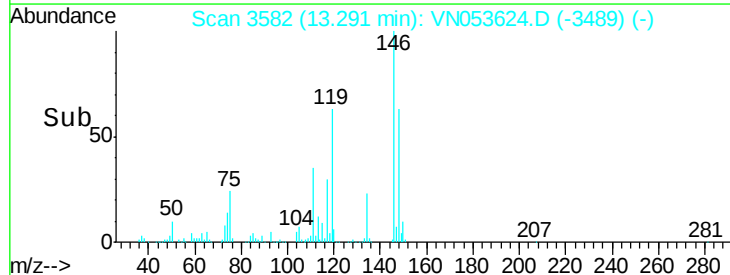
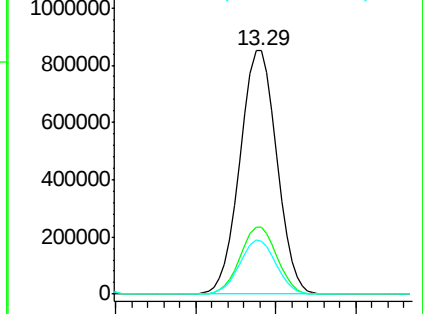
91 22.0 11.0 33.0

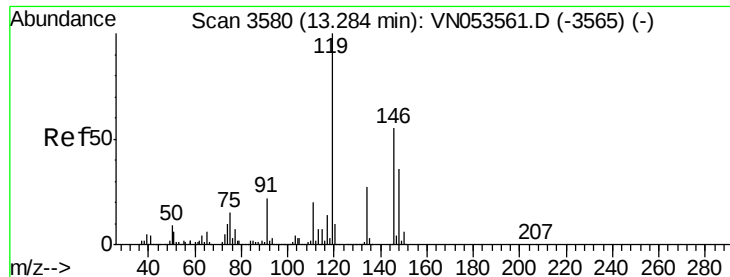


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 46.190 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

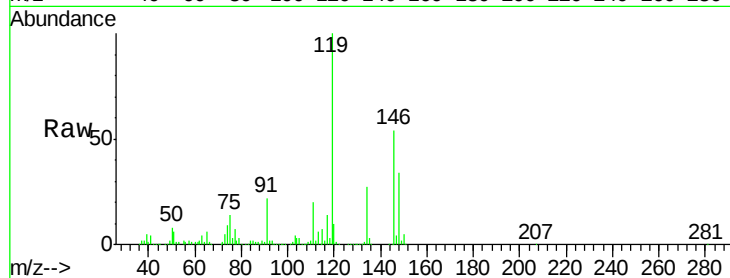
Tot Ion:146 Resp: 696655

Ion Ratio Lower Upper

146 100

111 36.9 18.8 56.3

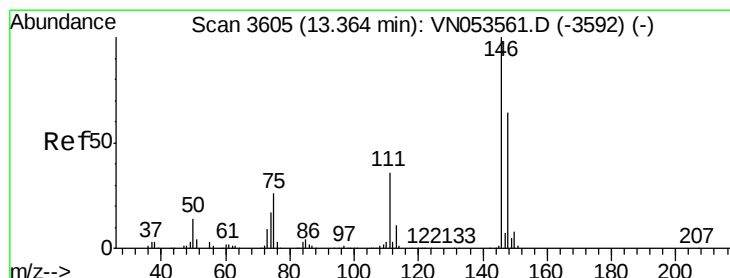
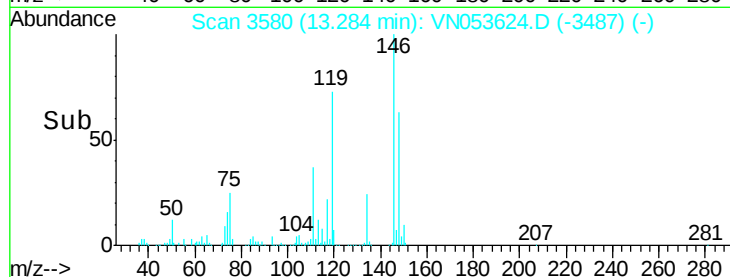
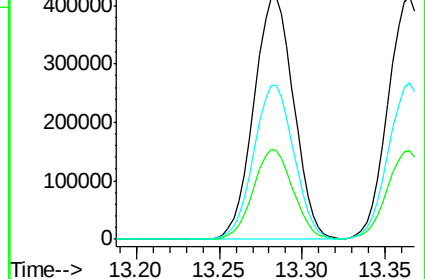
148 63.8 32.0 96.2



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 45.969 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

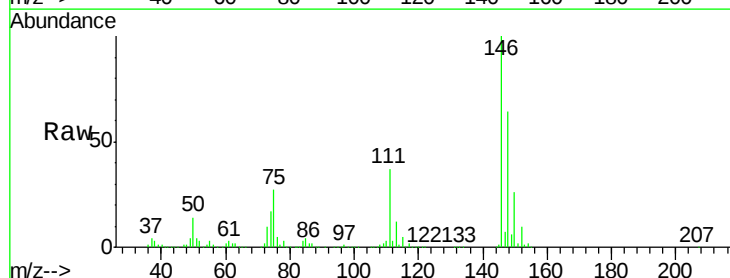
Tgt Ion:146 Resp: 685832

Ion Ratio Lower Upper

146 100

111 36.9 18.6 55.8

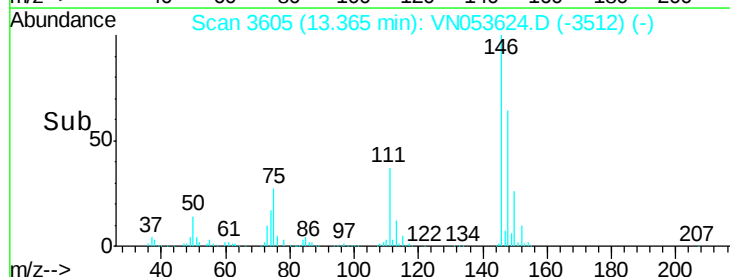
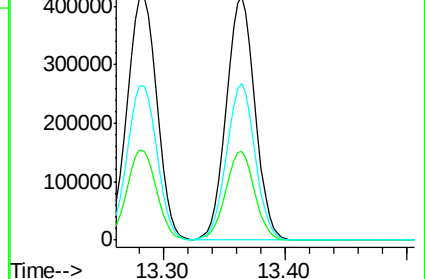
148 64.1 32.4 97.0

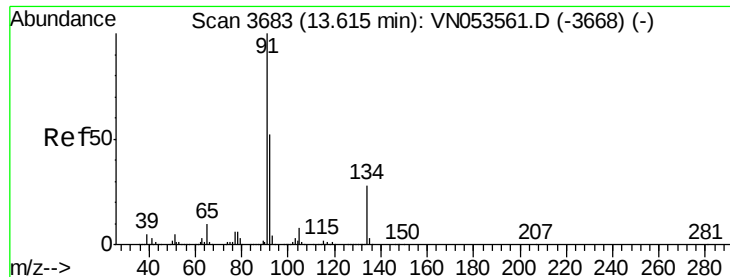


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 49.868 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

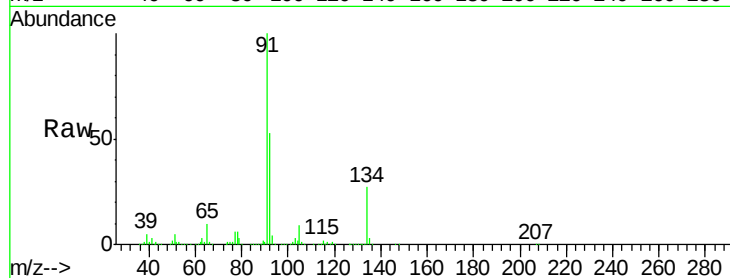
Tot Ion: 91 Resp: 1172080

Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.3	78.8
134	27.0	13.5	40.5

91 100

92 52.3 26.3 78.8

134 27.0 13.5 40.5



Abundance Ion 91.00 (90.70 to 91.70): VN053561.D (-3668) (-)

Ion 92.00 (91.70 to 92.70): VN053561.D (-3668) (-)

Ion 134.00 (133.70 to 134.70): VN053561.D (-3668) (-)

Time-->

13.62

800000

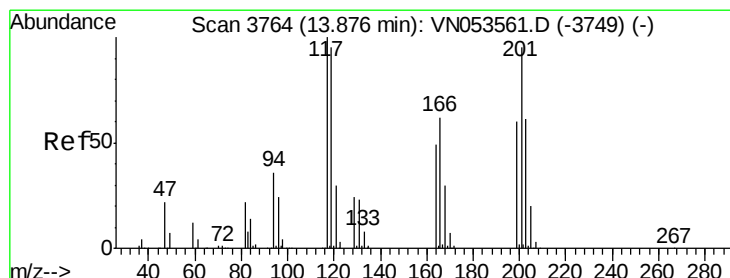
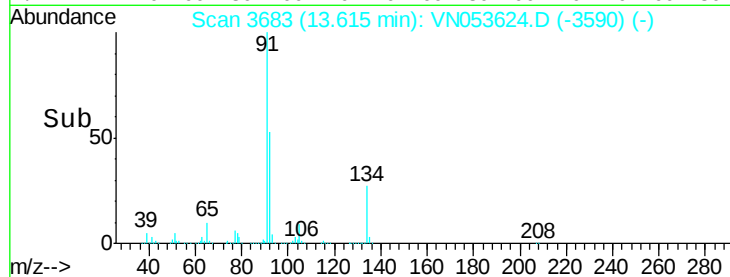
600000

400000

200000

0

13.55 13.60 13.65 13.70



#90

Hexachloroethane

Concen: 47.664 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. 0.00 min

Lab File: VN053624.D

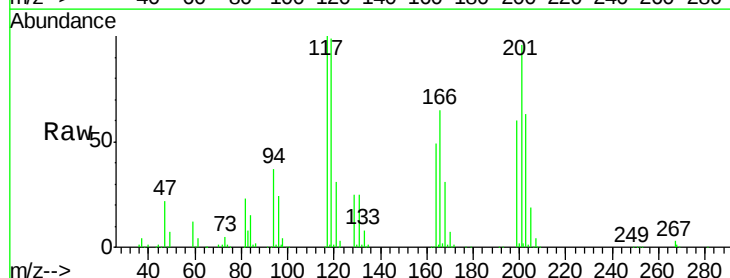
Acq: 6 Feb 2019 9:58

Tgt Ion: 117 Resp: 213491

Ion	Ratio	Lower	Upper
117	100		
201	96.6	46.8	140.4

117 100

201 96.6 46.8 140.4



Abundance Ion 116.80 (116.50 to 117.50): VN053561.D (-3749) (-)

Ion 200.70 (200.40 to 201.40): VN053561.D (-3749) (-)

Time-->

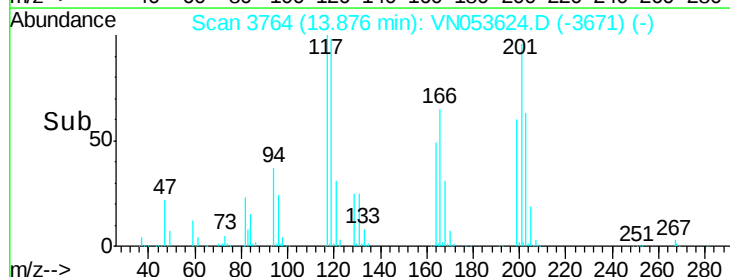
13.88

100000

50000

0

13.80 13.85 13.90 13.95





#91

1,2-Dichlorobenzene

Concen: 46.403 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

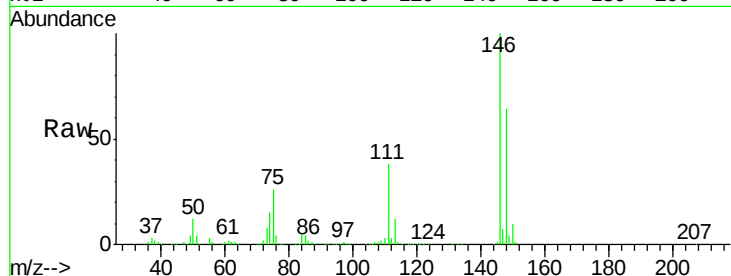
Tot Ion:146 Resp: 670019

Ion Ratio Lower Upper

146 100

111 38.4 19.5 58.5

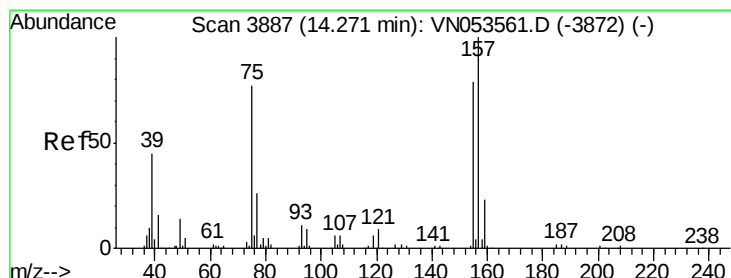
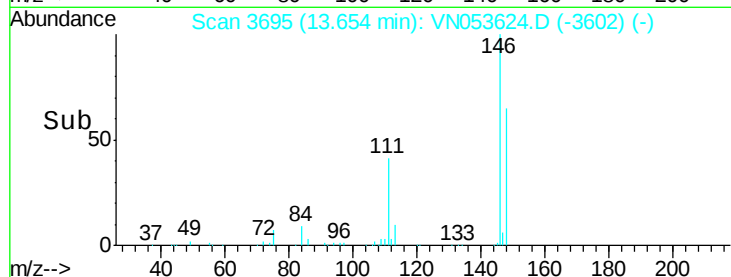
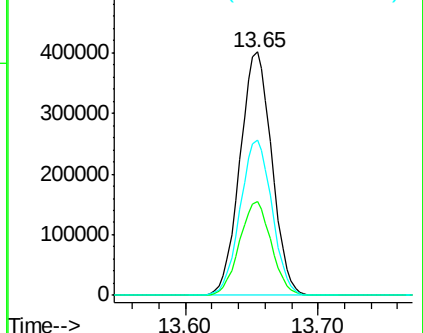
148 63.8 31.9 95.9



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 44.970 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. -0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

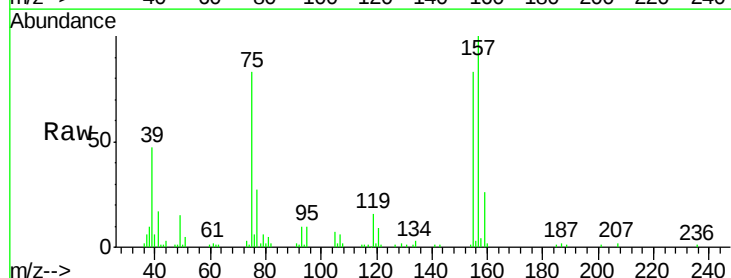
Tgt Ion: 75 Resp: 47750

Ion Ratio Lower Upper

75 100

155 99.0 48.9 146.7

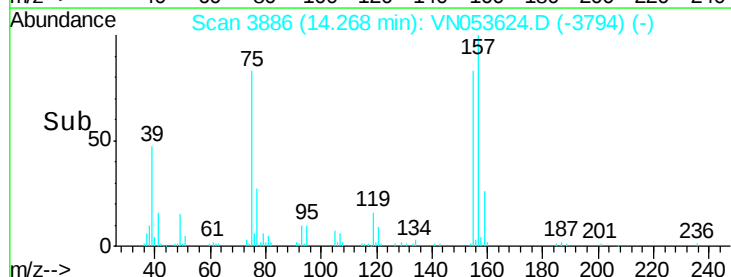
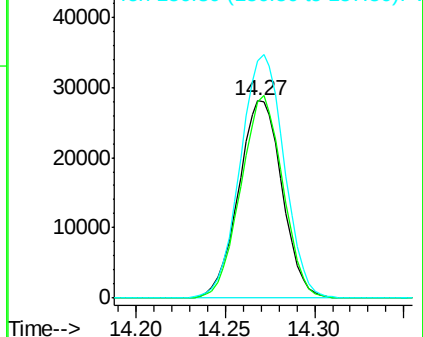
157 124.5 63.7 191.3



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

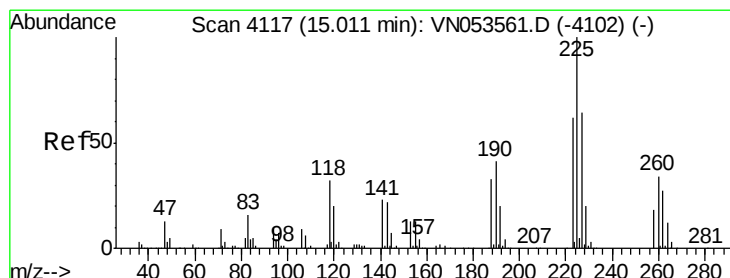
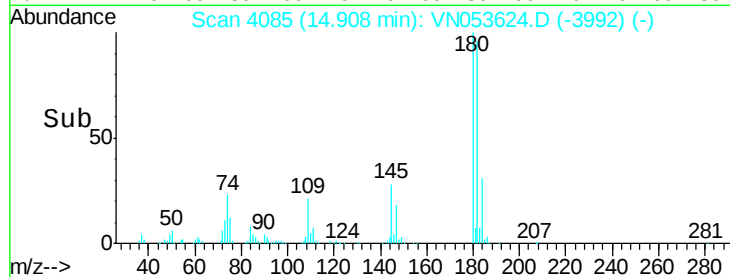
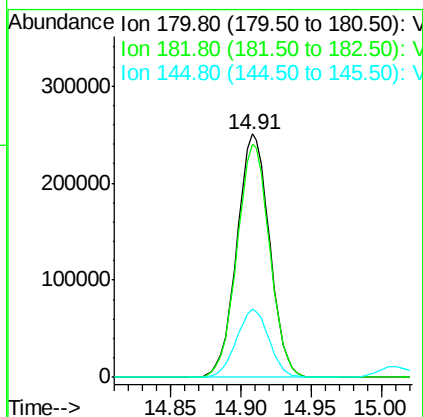
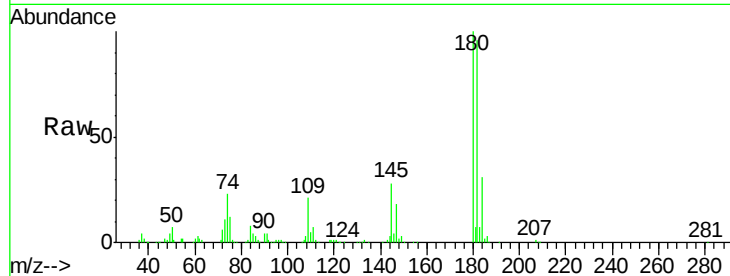




#93
 1,2,4-Trichlorobenzene
 Concen: 49.158 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053624.D
 Acq: 6 Feb 2019 9:58

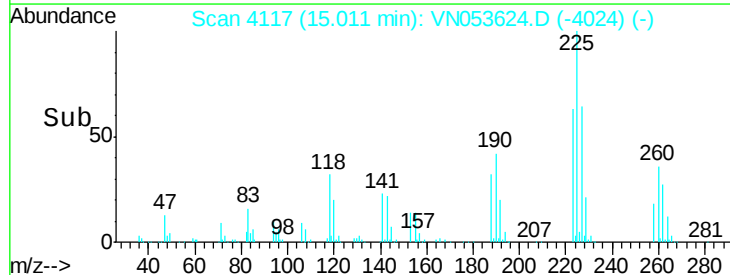
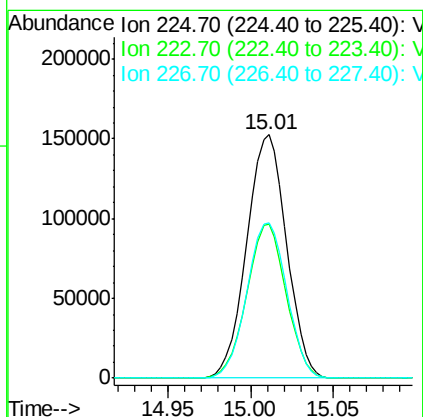
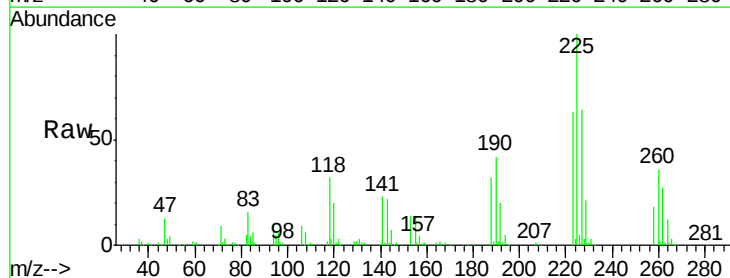
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

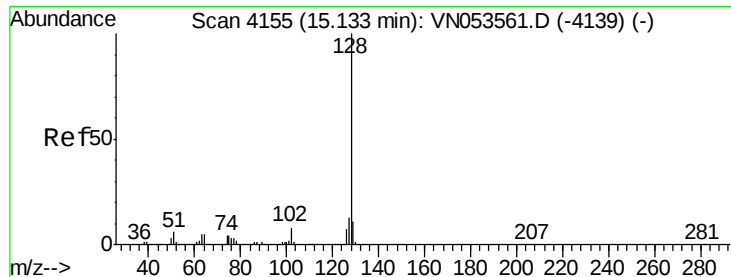
Tot Ion:180 Resp: 407091
 Ion Ratio Lower Upper
 180 100
 182 95.6 48.1 144.3
 145 27.9 13.9 41.6



#94
 Hexachlorobutadiene
 Concen: 49.341 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053624.D
 Acq: 6 Feb 2019 9:58

Tgt Ion:225 Resp: 254461
 Ion Ratio Lower Upper
 225 100
 223 62.4 31.1 93.2
 227 64.0 32.0 96.2





#95

Naphthalene

Concen: 41.800 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

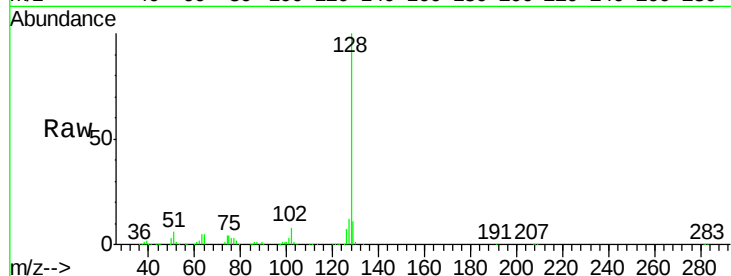
Tot Ion:128 Resp: 807402

Ion Ratio Lower Upper

128 100

127 12.6 10.3 15.5

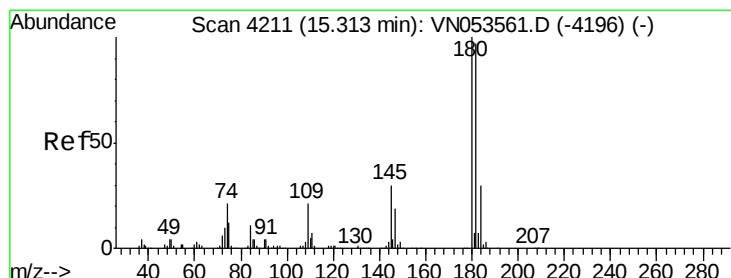
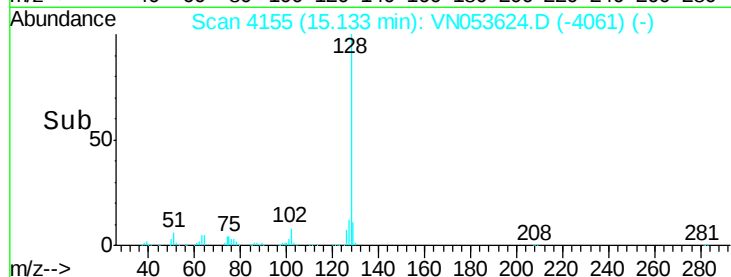
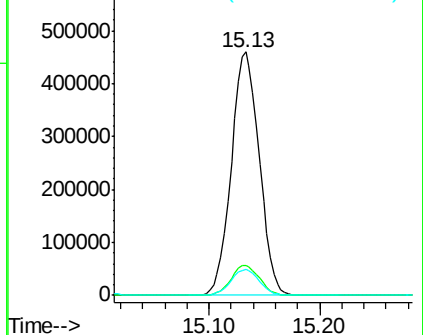
129 10.8 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 47.612 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN053624.D

Acq: 6 Feb 2019 9:58

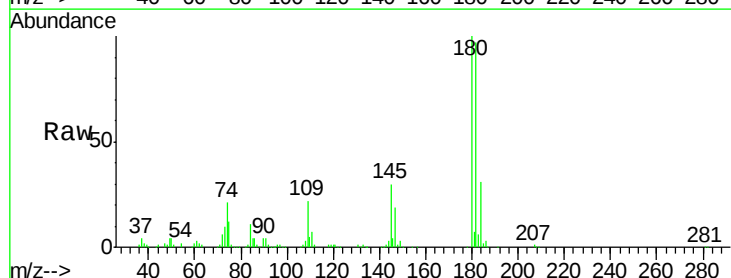
Tgt Ion:180 Resp: 365847

Ion Ratio Lower Upper

180 100

182 95.8 47.9 143.8

145 29.5 14.7 44.1



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

