

Data File : VN059945.D
Acq On : 31 Jan 2020 14:11
Operator : JC/MD
Sample : L1325-04
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
200029

Quant Time: Feb 03 01:20:31 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
Quant Title : SW846 8260
QLast Update : Sat Jan 18 03:09:32 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	195706	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	302999	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	281032	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	125195	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	109264	50.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.54%	
35) Dibromofluoromethane	7.57	113	91197	50.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.94%	
50) Toluene-d8	10.08	98	365172	52.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.32%	
62) 4-Bromofluorobenzene	12.40	95	129335	51.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.50%	

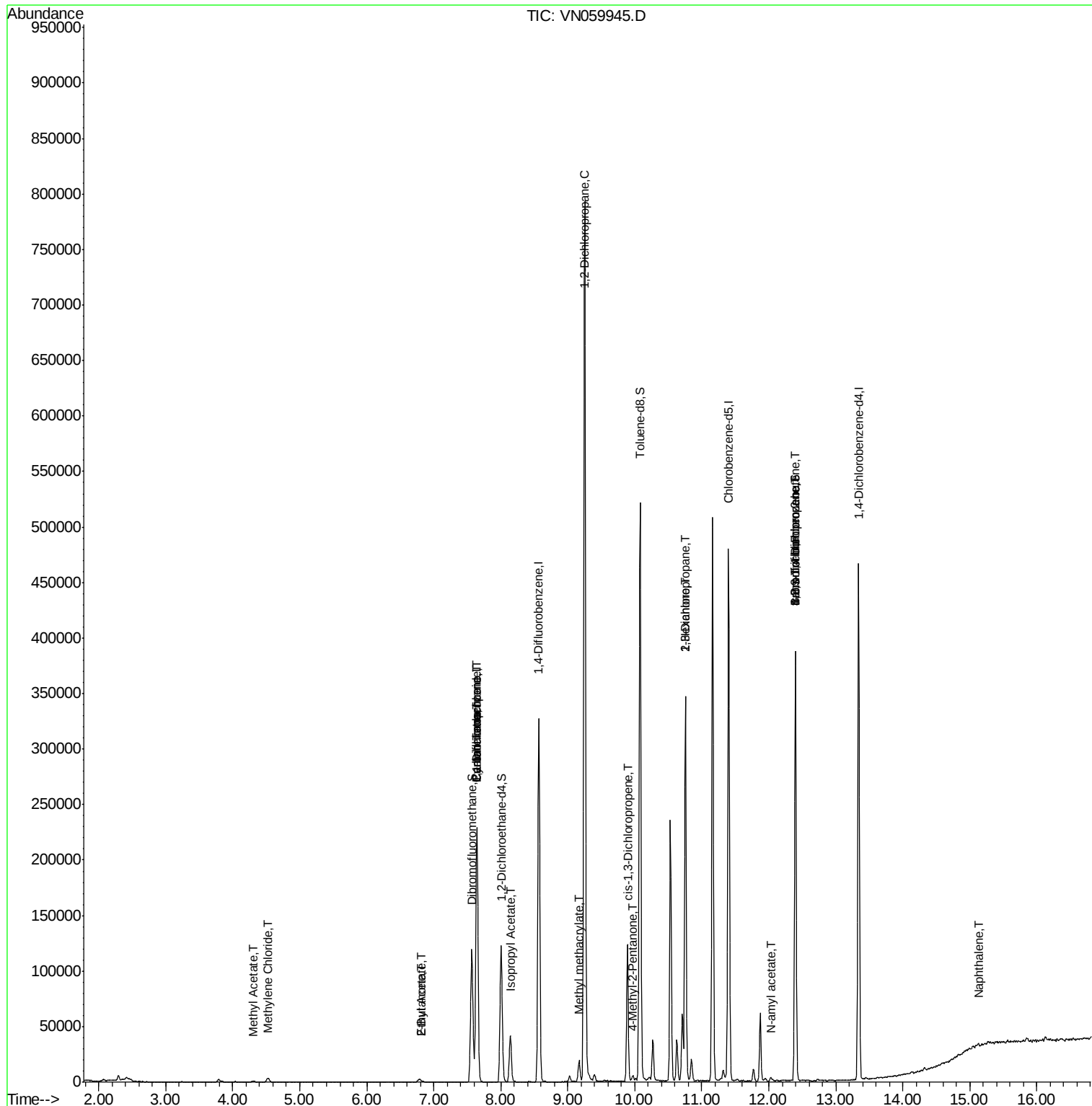
Target Compounds				Qvalue		
16) Acetone	3.79	43	4479	Below Cal		99
18) Methyl Acetate	4.31	43	1480	0.583 ug/l #		58
20) Methylene Chloride	4.53	84	3007	0.241 ug/l		87
25) 2-Butanone	6.82	43	1642	1.334 ug/l #		50
31) Cyclohexane	7.64	56	3868	1.203 ug/l #		24
36) 1,1-Dichloropropene	7.64	75	13833	5.243 ug/l #		50
37) Ethyl Acetate	6.82	43	1642	0.663 ug/l #		69
38) Carbon Tetrachloride	7.64	117	18354	6.395 ug/l #		16
43) Isopropyl Acetate	8.14	43	49961	11.737 ug/l #		91
45) 1,2-Dichloropropane	9.25	63	881	0.452 ug/l #		44
48) Methyl methacrylate	9.16	41	2917	1.532 ug/l #		13
51) 4-Methyl-2-Pentanone	9.97	43	3539	1.438 ug/l		95
54) cis-1,3-Dichloropropene	9.89	75	22642	6.962 ug/l #		60
57) 1,3-Dichloropropane	10.75	76	3578	1.145 ug/l #		42
59) 2-Hexanone	10.75	43	48640	26.831 ug/l #		56
71) Bromoform	12.40	173	415	0.243 ug/l #		1
74) N-amyl acetate	12.03	43	2388	0.670 ug/l #		45
76) 1,2,3-Trichloropropane	12.40	75	66226	31.433 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	66226	67.502 ug/l #		11
92) 1,2-Dibromo-3-Chloropropan	14.35	75	67	Below Cal #		6
95) Naphthalene	15.13	128	1735	0.254 ug/l #		72

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059945.D

Acq: 31 Jan 2020 14:11

Instrument :

MSVOA_N

ClientSampled :

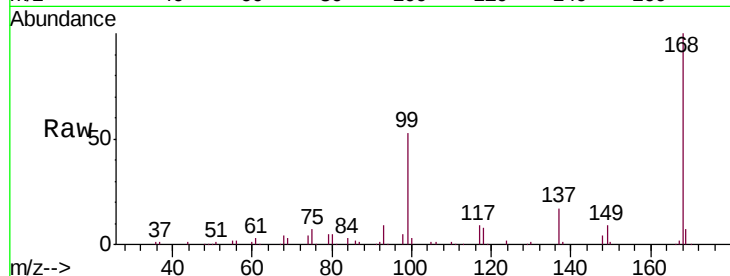
200029

Tgt Ion:168 Resp: 195706

Ion Ratio Lower Upper

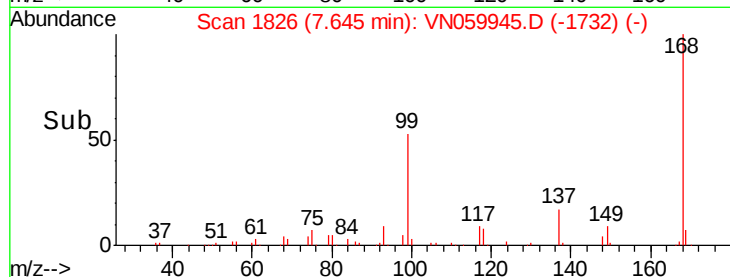
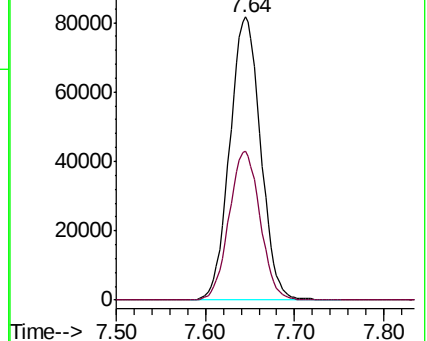
168 100

99 52.6 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN059945.D

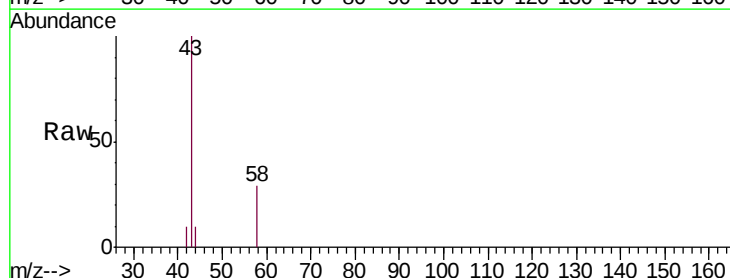
Acq: 31 Jan 2020 14:11

Tgt Ion: 43 Resp: 4479

Ion Ratio Lower Upper

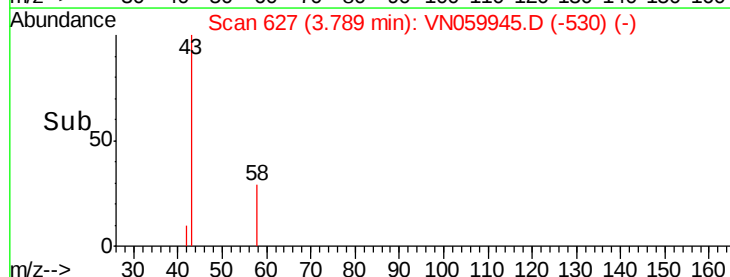
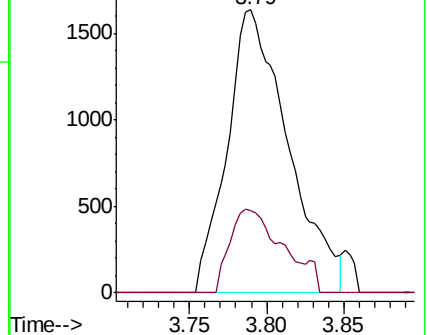
43 100

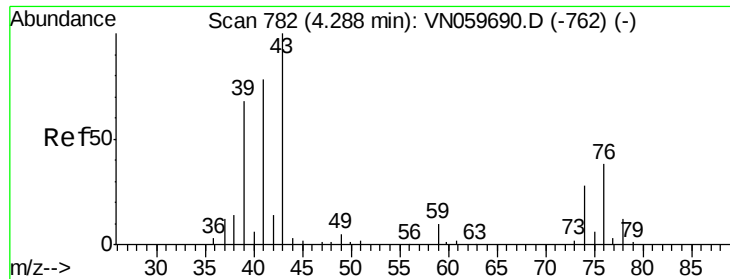
58 29.2 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

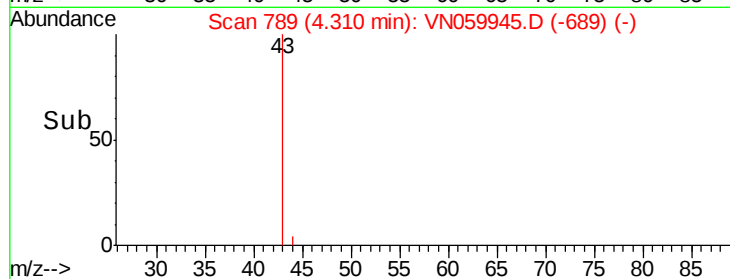
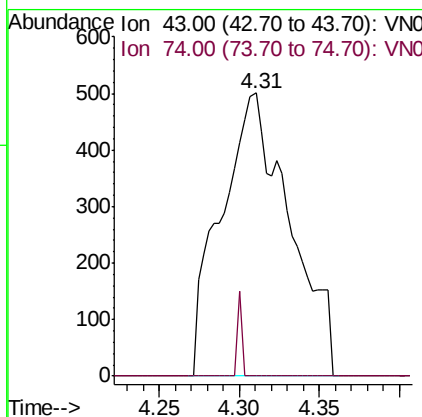
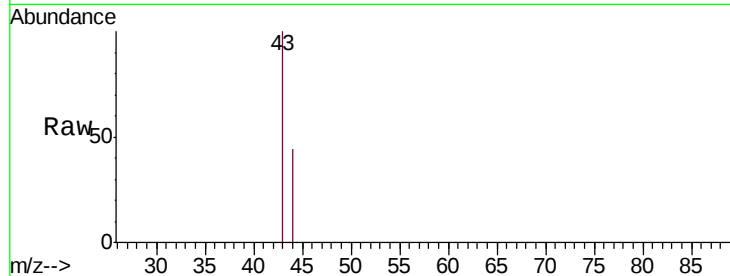




#18
Methyl Acetate
Concen: 0.583 ug/l
RT: 4.31 min Scan# 789
Delta R.T. 0.02 min
Lab File: VN059945.D
Acq: 31 Jan 2020 14:11

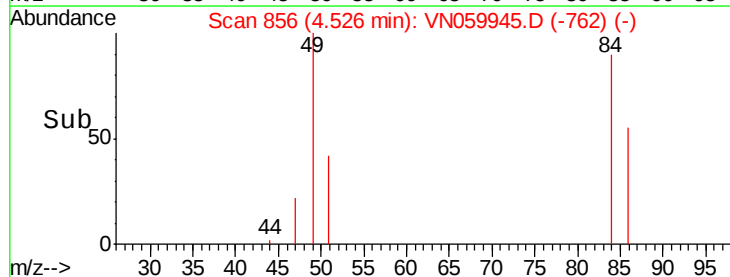
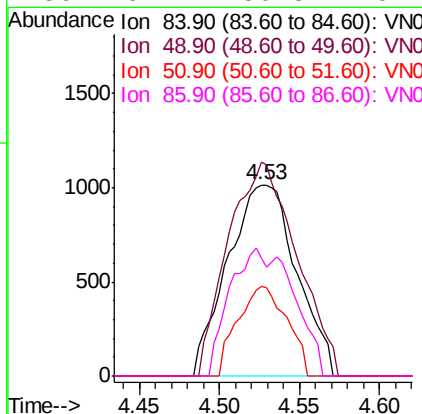
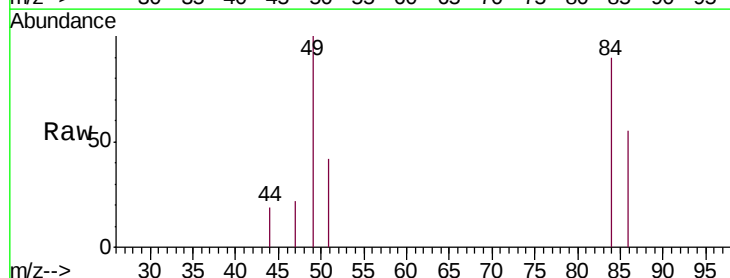
Instrument :
MSVOA_N
ClientSampleId :
200029

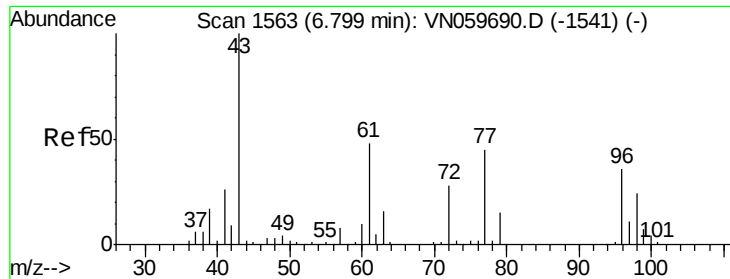
Tgt Ion: 43 Resp: 1480
Ion Ratio Lower Upper
43 100
74 2.0 17.5 26.3#



#20
Methylene Chloride
Concen: 0.241 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN059945.D
Acq: 31 Jan 2020 14:11

Tgt Ion: 84 Resp: 3007
Ion Ratio Lower Upper
84 100
49 111.7 106.6 160.0
51 46.6 31.9 47.9
86 61.4 50.8 76.2

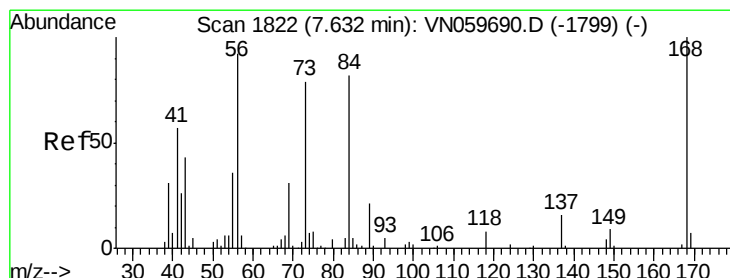
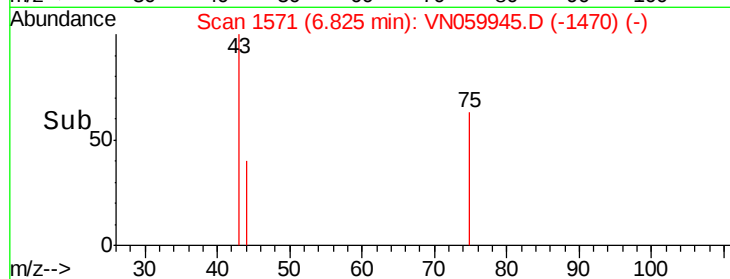
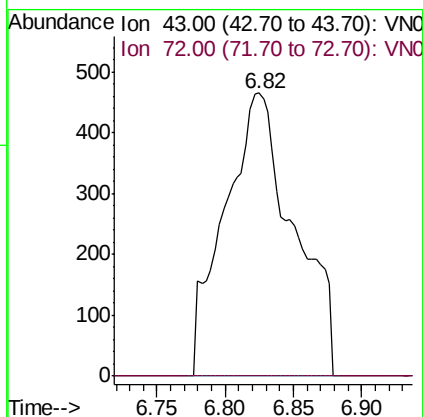
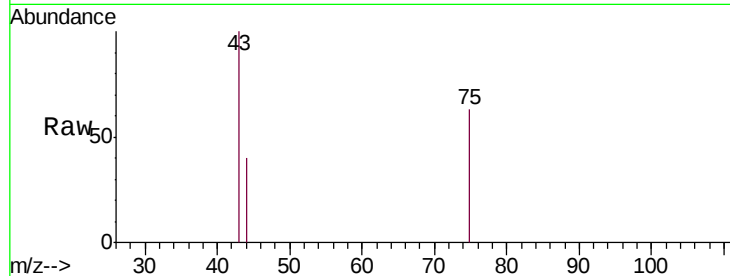




#25
2-Butanone
Concen: 1.334 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.03 min
Lab File: VN059945.D
Acq: 31 Jan 2020 14:11

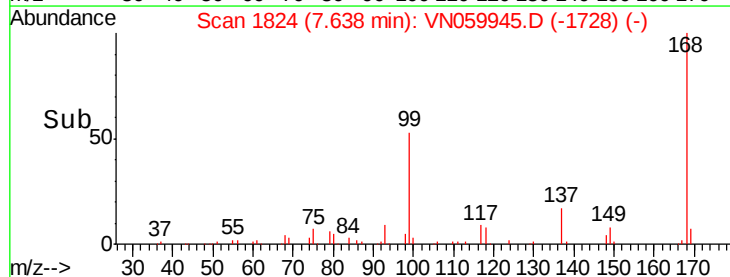
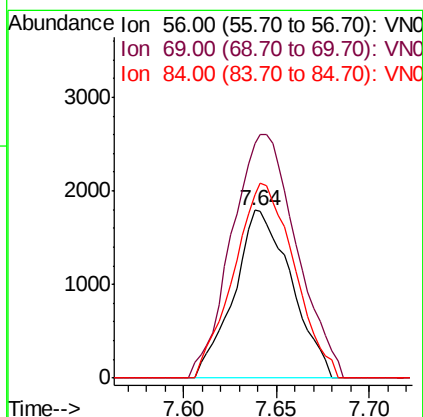
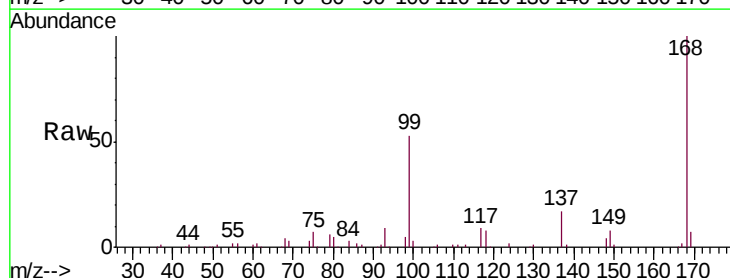
Instrument :
MSVOA_N
ClientSampled :
200029

Tgt Ion: 43 Resp: 1642
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#



#31
Cyclohexane
Concen: 1.203 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN059945.D
Acq: 31 Jan 2020 14:11

Tgt Ion: 56 Resp: 3868
Ion Ratio Lower Upper
56 100
69 139.4 26.5 39.7#
84 109.5 65.3 97.9#

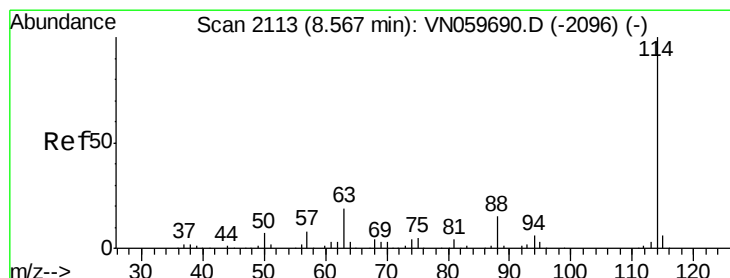
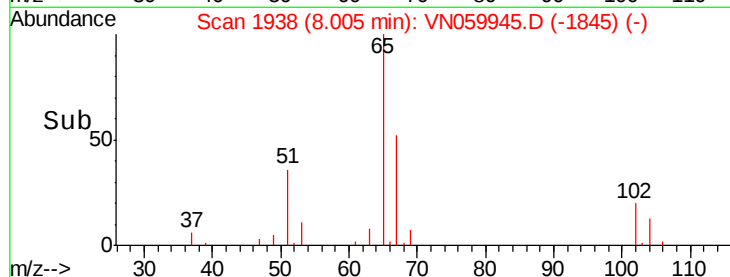
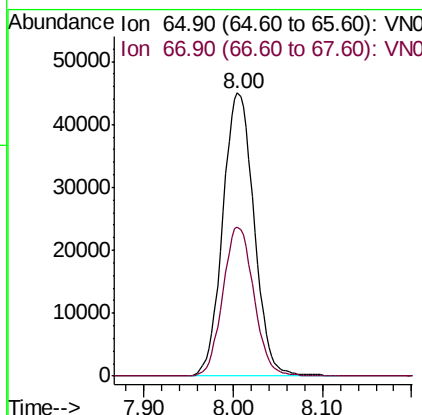
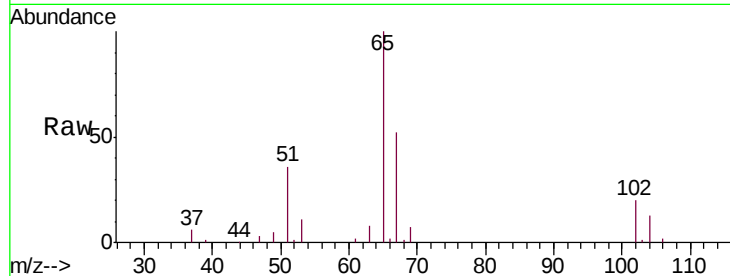




#33
 1,2-Dichloroethane-d4
 Concen: 50.274 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN059945.D
 Acq: 31 Jan 2020 14:11

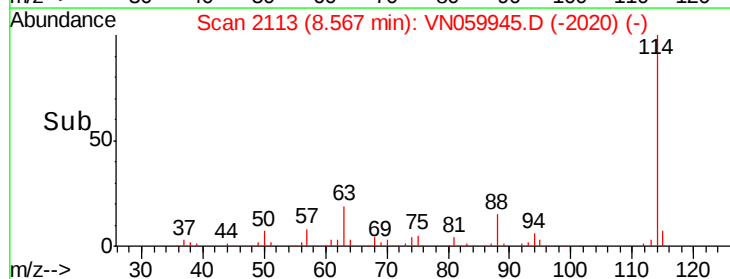
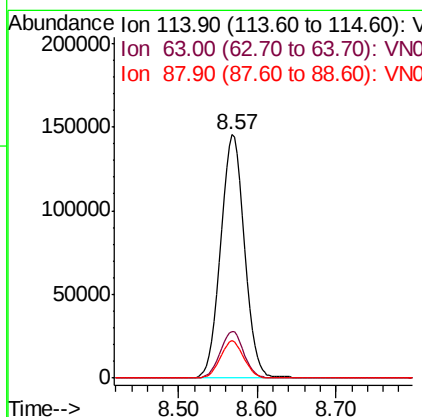
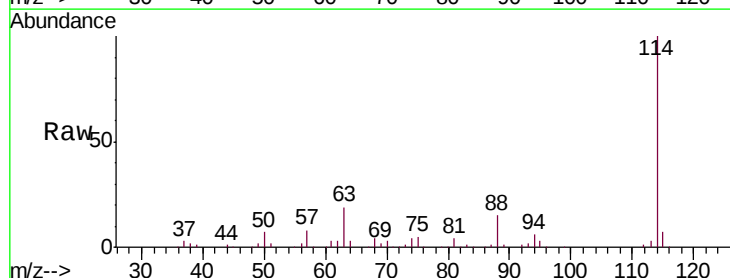
Instrument :
 MSVOA_N
 ClientSampled :
 200029

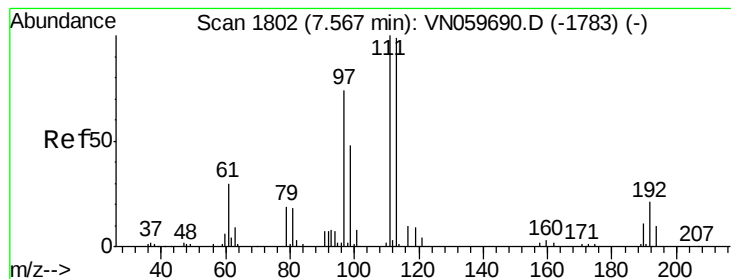
Tgt Ion: 65 Resp: 109264
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059945.D
 Acq: 31 Jan 2020 14:11

Tgt Ion: 114 Resp: 302999
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 43.6
 88 15.2 0.0 31.4





#35

Dibromofluoromethane

Concen: 50.471 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN059945.D

Acq: 31 Jan 2020 14:11

Instrument :

MSVOA_N

ClientSampleId :

200029

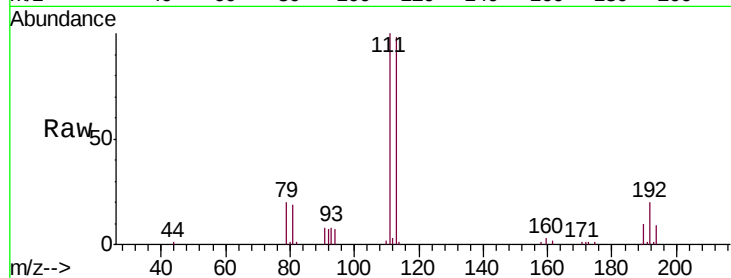
Tgt Ion:113 Resp: 91197

Ion Ratio Lower Upper

113 100

111 103.1 83.5 125.3

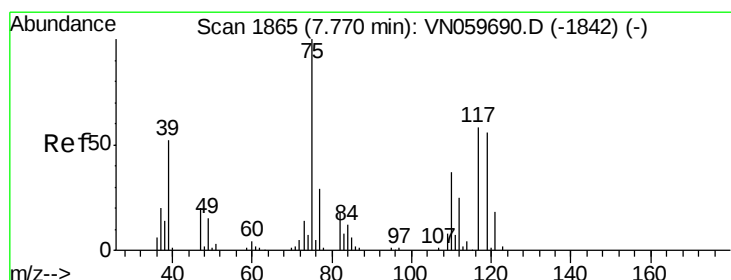
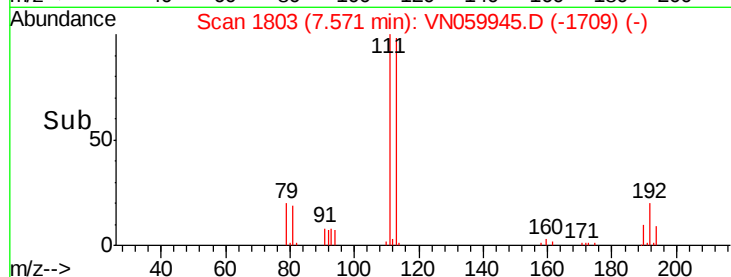
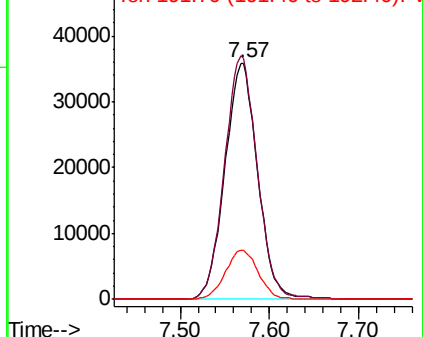
192 20.9 15.4 23.2



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: 5.243 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN059945.D

Acq: 31 Jan 2020 14:11

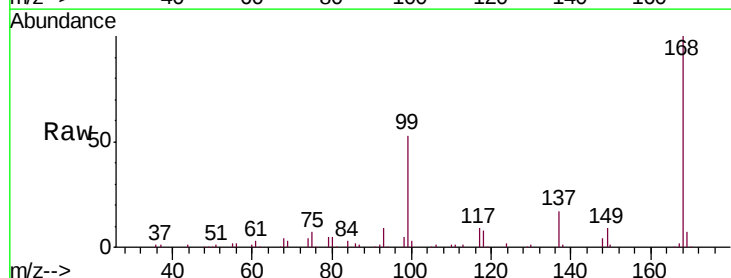
Tgt Ion: 75 Resp: 13833

Ion Ratio Lower Upper

75 100

110 8.3 16.6 49.7#

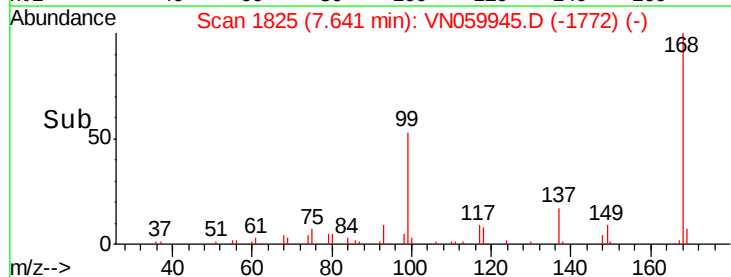
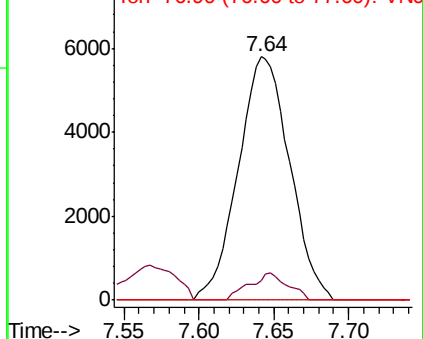
77 0.0 25.1 37.7#

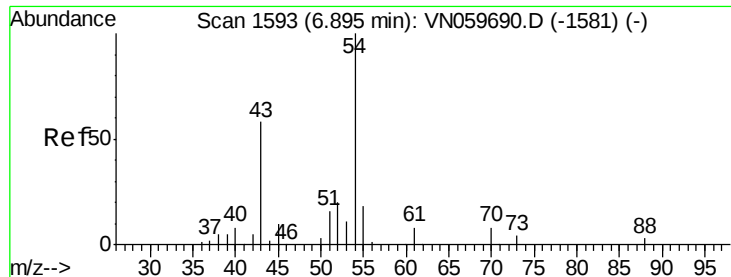


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

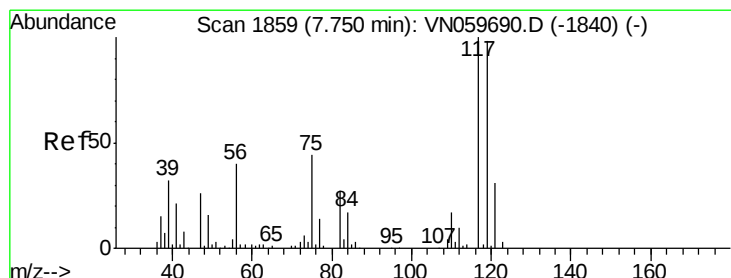
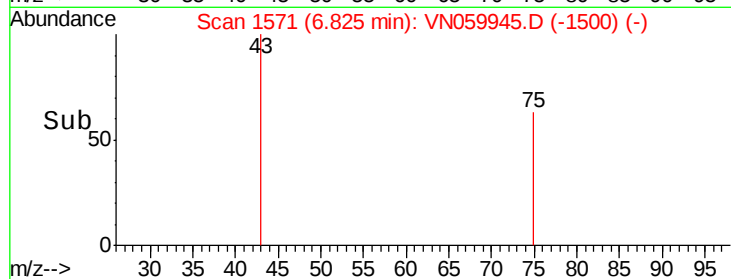
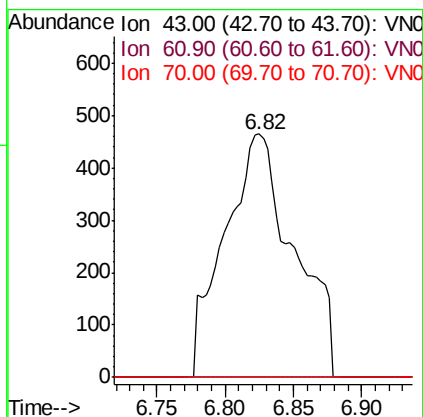
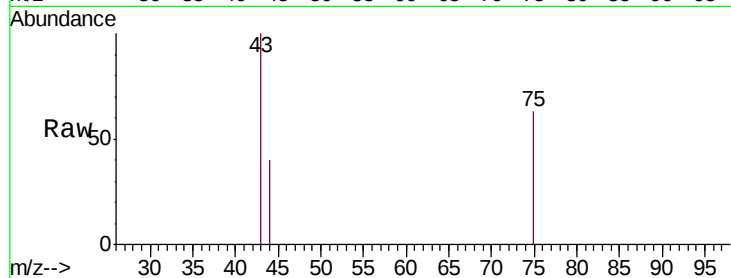




#37
 Ethyl Acetate
 Concen: 0.663 ug/l
 RT: 6.82 min Scan# 1571
 Delta R.T. -0.07 min
 Lab File: VN059945.D
 Acq: 31 Jan 2020 14:11

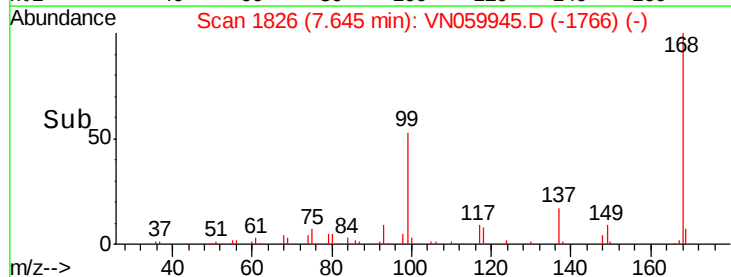
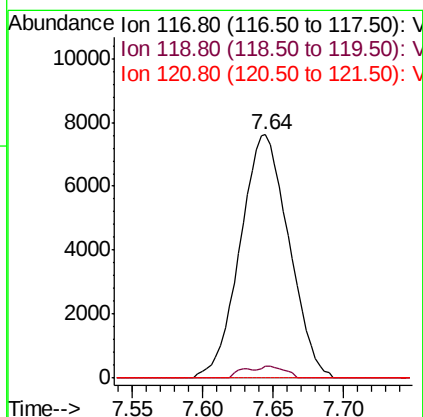
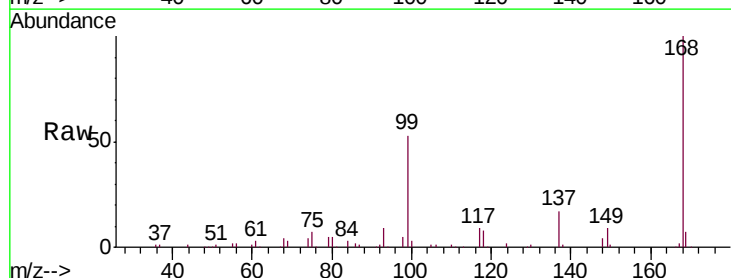
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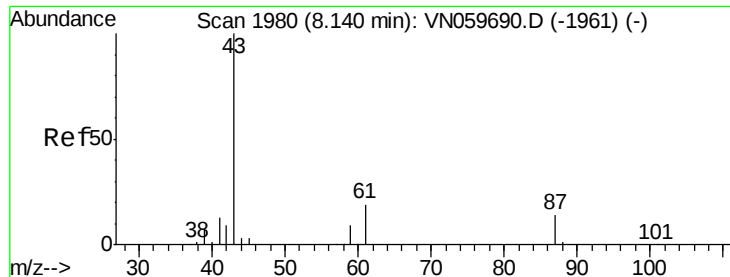
Tgt Ion: 43 Resp: 1642
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.9 16.3#
 70 0.0 7.7 11.5#



#38
 Carbon Tetrachloride
 Concen: 6.395 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN059945.D
 Acq: 31 Jan 2020 14:11

Tgt Ion: 117 Resp: 18354
 Ion Ratio Lower Upper
 117 100
 119 5.0 76.5 114.7#
 121 0.0 25.1 37.7#





#43

Isopropyl Acetate

Concen: 11.737 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059945.D

Acq: 31 Jan 2020 14:11

Instrument :

MSVOA_N

ClientSampleId :

200029

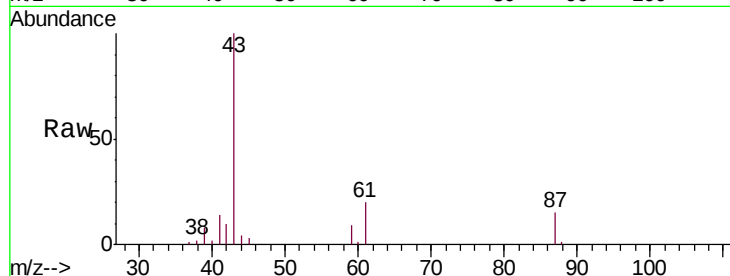
Tgt Ion: 43 Resp: 49961

Ion Ratio Lower Upper

43 100

61 19.6 20.2 30.2#

87 13.6 9.5 14.3

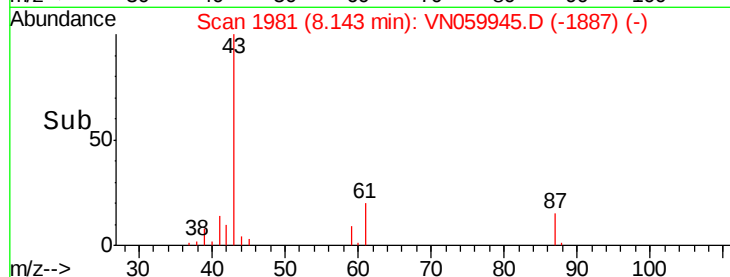


Abundance Ion 43.00 (42.70 to 43.70): VN059945.D (-1961) (-)

Ion 61.00 (60.70 to 61.70): VN059945.D (-1961) (-)

Ion 87.00 (86.70 to 87.70): VN059945.D (-1961) (-)

Time-->



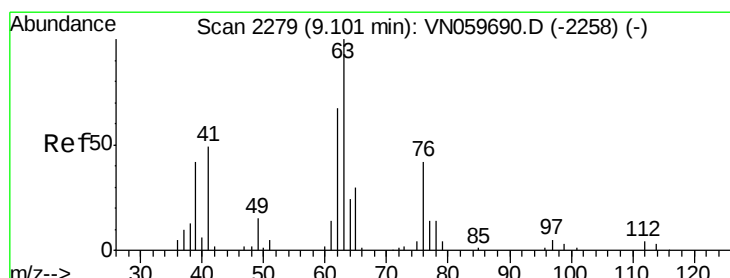
Abundance

Ion 43.00 (42.70 to 43.70): VN059945.D (-1887) (-)

Ion 61.00 (60.70 to 61.70): VN059945.D (-1887) (-)

Ion 87.00 (86.70 to 87.70): VN059945.D (-1887) (-)

Time-->



#45

1,2-Dichloropropane

Concen: 0.452 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN059945.D

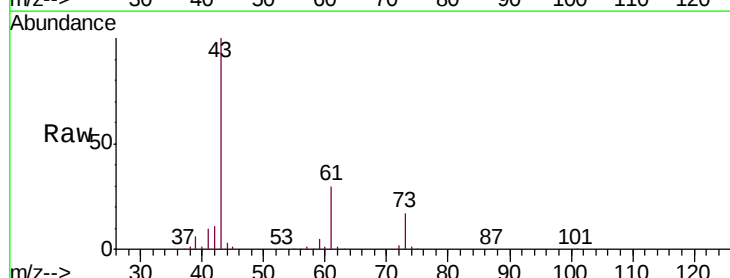
Acq: 31 Jan 2020 14:11

Tgt Ion: 63 Resp: 881

Ion Ratio Lower Upper

63 100

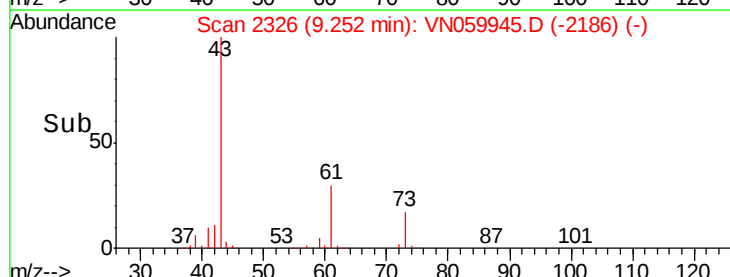
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN059945.D (-2258) (-)

Ion 64.90 (64.60 to 65.60): VN059945.D (-2258) (-)

Time-->

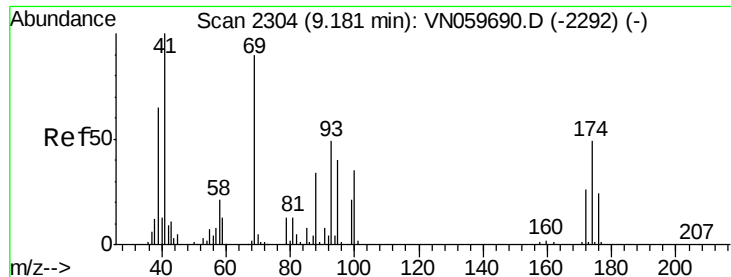


Abundance

Ion 62.90 (62.60 to 63.60): VN059945.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN059945.D (-2186) (-)

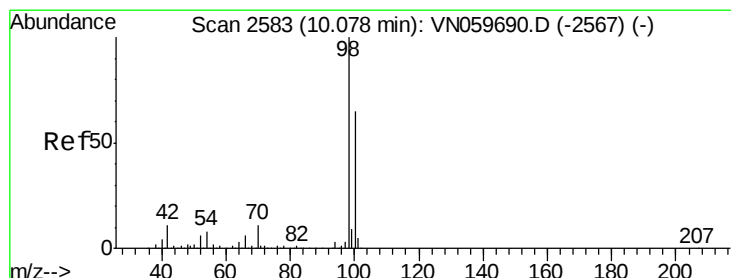
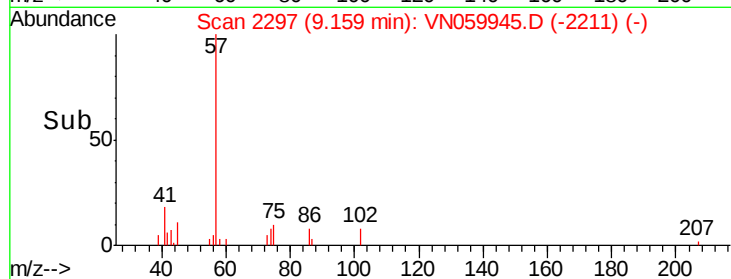
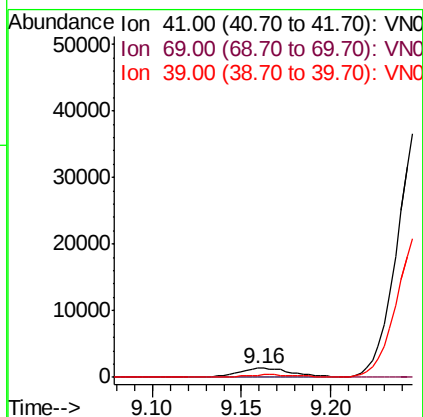
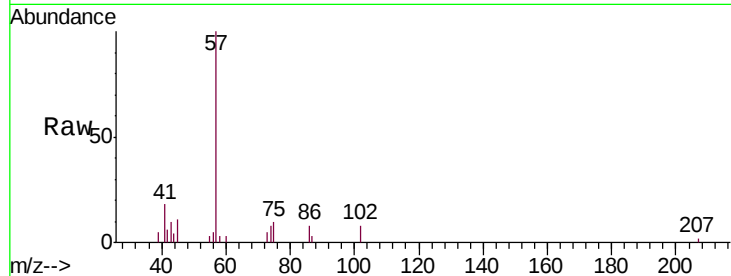
Time-->



#48
Methyl methacrylate
Concen: 1.532 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN059945.D
Acq: 31 Jan 2020 14:11

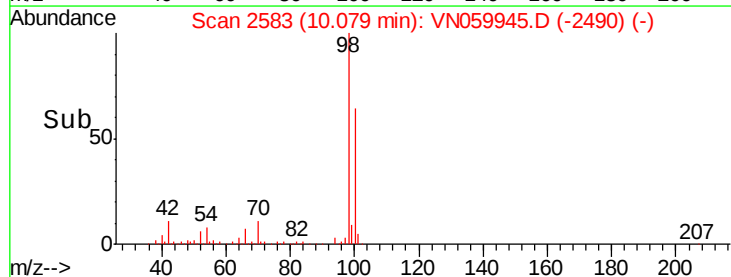
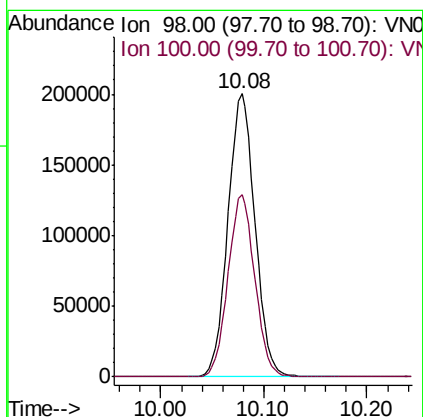
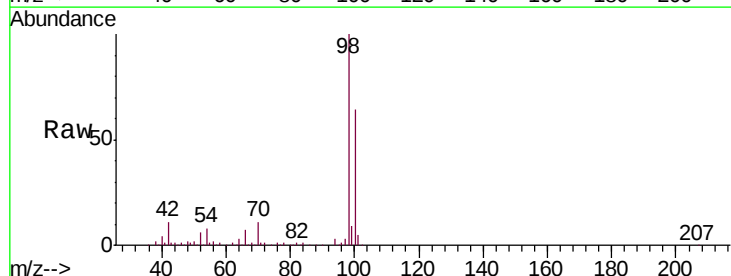
Instrument :
MSVOA_N
ClientSampleId :
200029

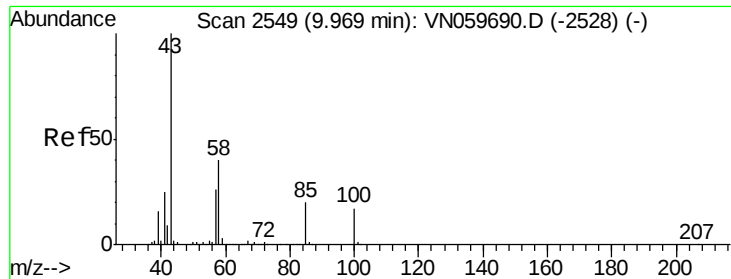
Tgt Ion: 41 Resp: 2917
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#



#50
Toluene-d8
Concen: 52.161 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059945.D
Acq: 31 Jan 2020 14:11

Tgt Ion: 98 Resp: 365172
Ion Ratio Lower Upper
98 100
100 64.1 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 1.438 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN059945.D

Acq: 31 Jan 2020 14:11

Instrument :

MSVOA_N

ClientSampleId :

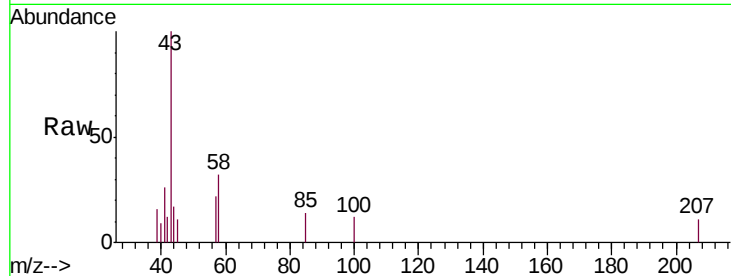
200029

Tgt Ion: 43 Resp: 3539

Ion Ratio Lower Upper

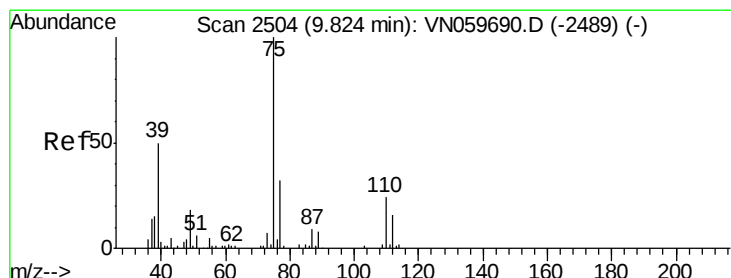
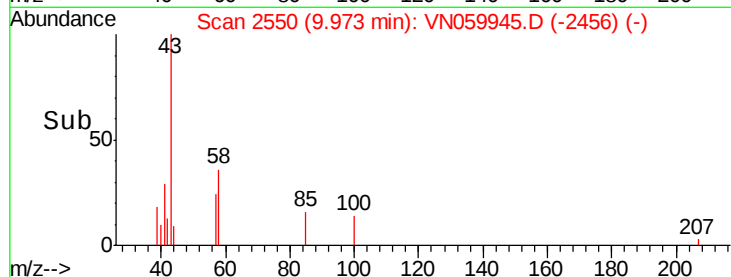
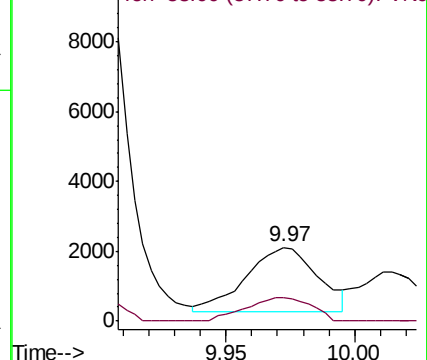
43 100

58 34.0 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 6.962 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN059945.D

Acq: 31 Jan 2020 14:11

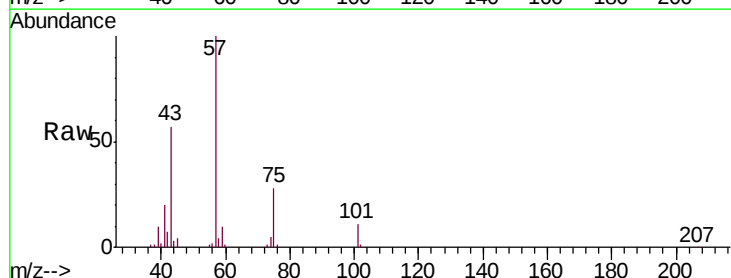
Tgt Ion: 75 Resp: 22642

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

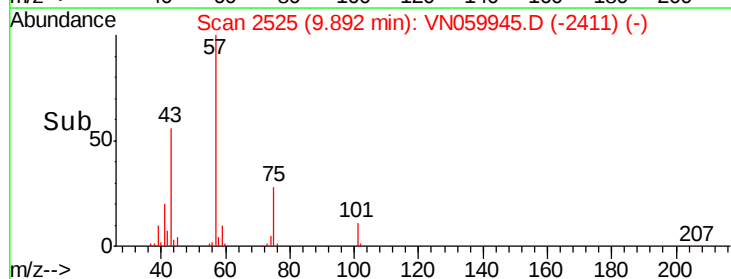
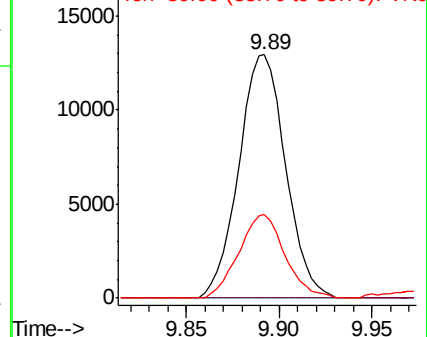
39 34.6 46.1 69.1#

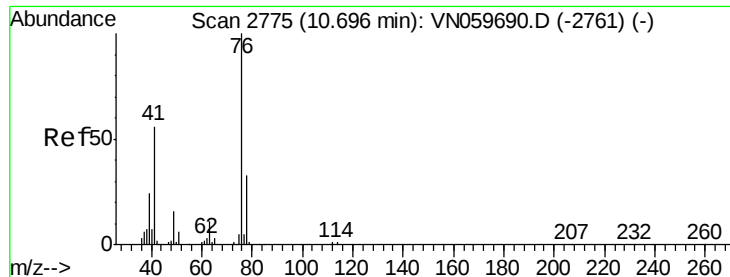


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

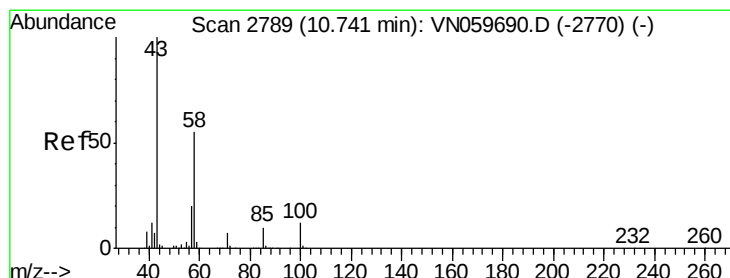
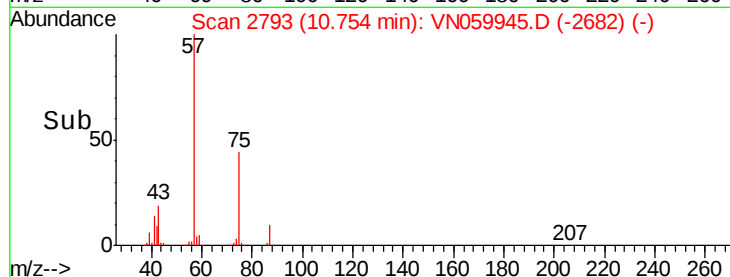
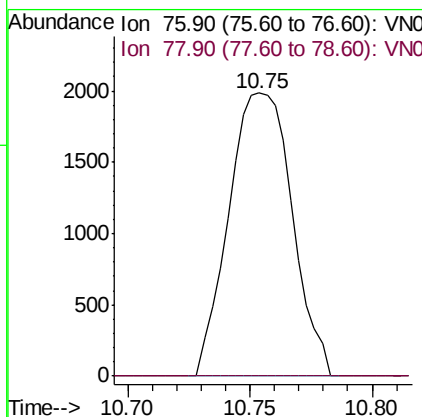
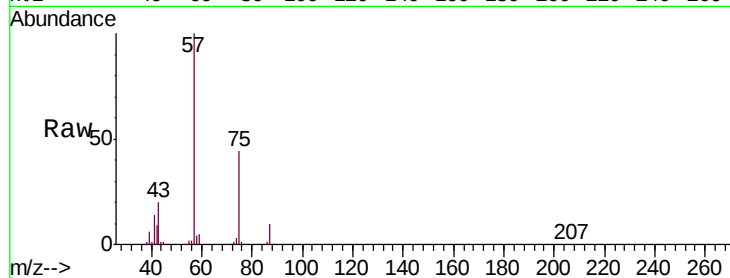




#57
 1,3-Dichloropropane
 Concen: 1.145 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN059945.D
 Acq: 31 Jan 2020 14:11

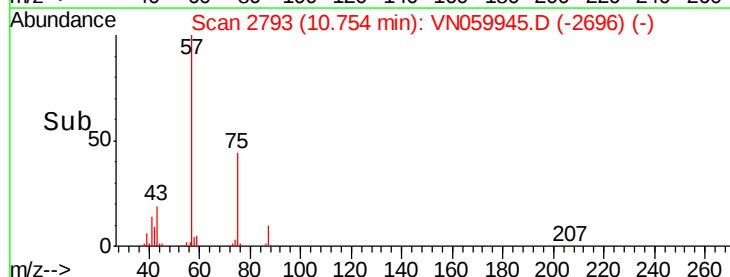
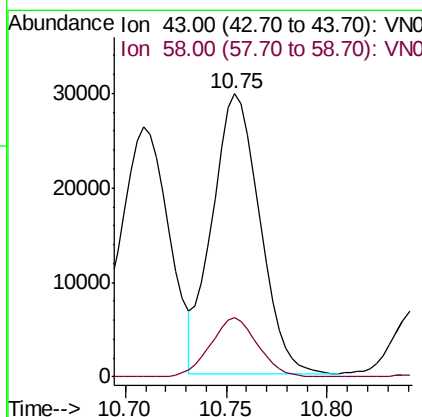
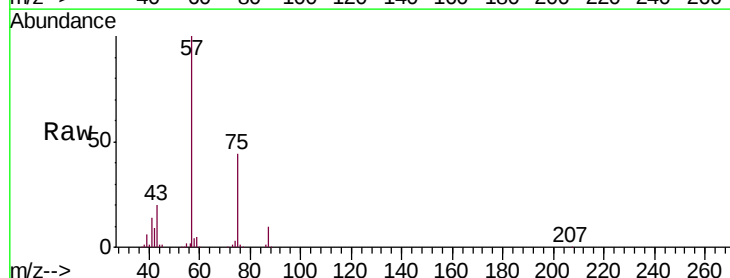
Instrument :
 MSVOA_N
 ClientSampleId :
 200029

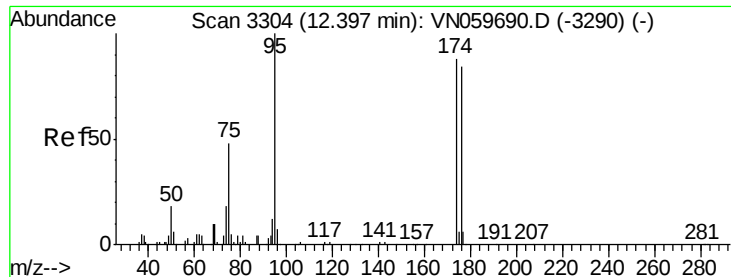
Tgt Ion: 76 Resp: 3578
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 26.831 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN059945.D
 Acq: 31 Jan 2020 14:11

Tgt Ion: 43 Resp: 48640
 Ion Ratio Lower Upper
 43 100
 58 21.0 25.8 77.3#





#62

4-Bromofluorobenzene

Concen: 51.246 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN059945.D

Acq: 31 Jan 2020 14:11

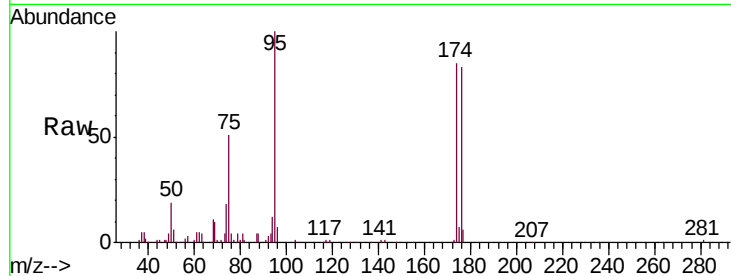
Instrument :

MSVOA_N

ClientSampled :

200029

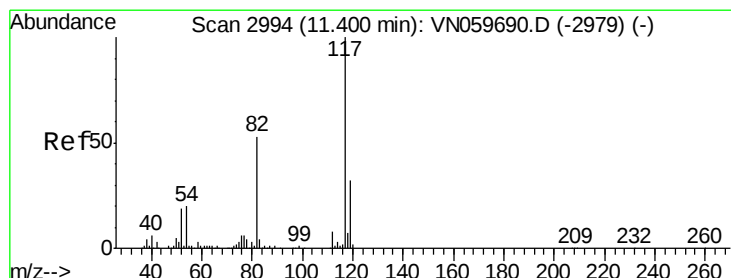
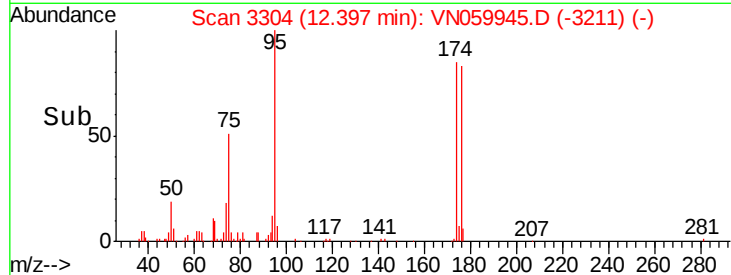
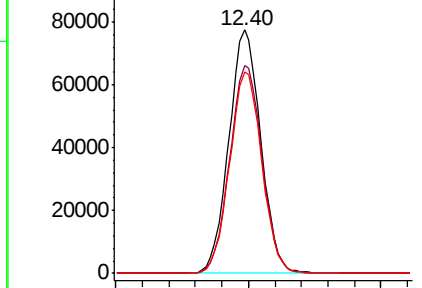
Tgt Ion:	95	Resp:	129335
Ion	Ratio	Lower	Upper
95	100		
174	86.9	0.0	151.4
176	83.4	0.0	146.0



Abundance Ion 94.90 (94.60 to 95.60): VN059945.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN059945.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN059945.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

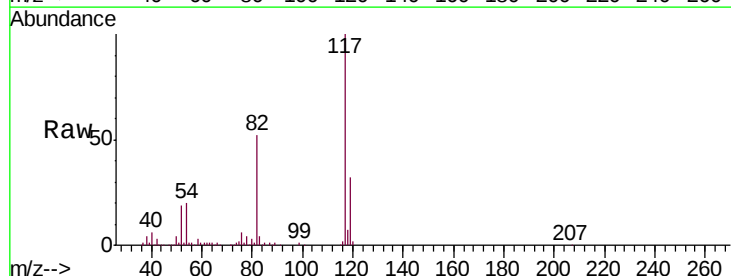
RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN059945.D

Acq: 31 Jan 2020 14:11

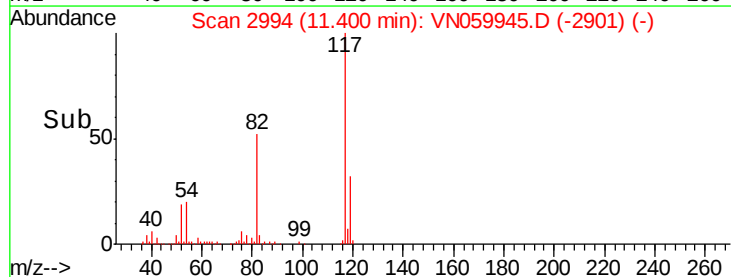
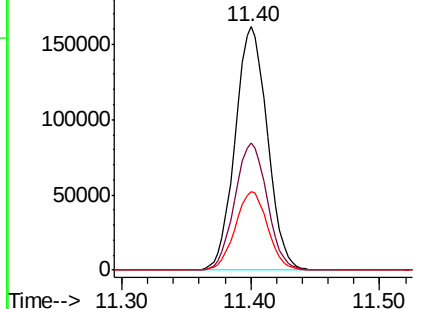
Tgt Ion:	117	Resp:	281032
Ion	Ratio	Lower	Upper
117	100		
82	52.0	45.9	68.9
119	32.4	25.5	38.3

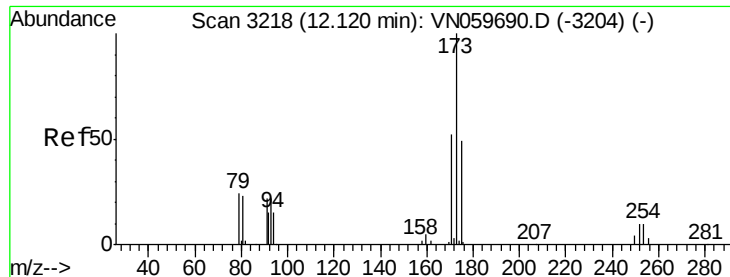


Abundance Ion 116.90 (116.60 to 117.60): VN059945.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN059945.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN059945.D (-2901) (-)





#71

Bromoform

Concen: 0.243 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN059945.D

Acq: 31 Jan 2020 14:11

Instrument :

MSVOA_N

ClientSampled :

200029

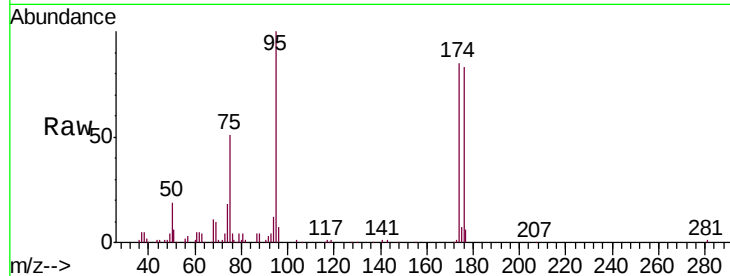
Tgt Ion:173 Resp: 415

Ion Ratio Lower Upper

173 100

175 1735.2 23.8 71.4#

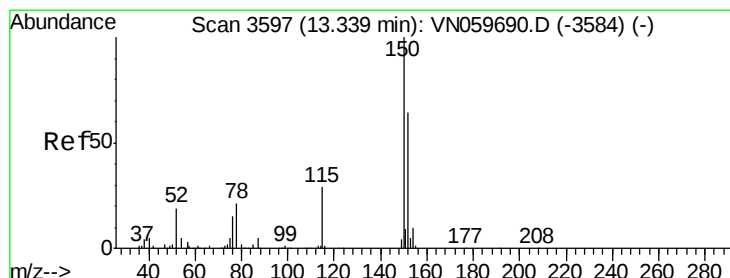
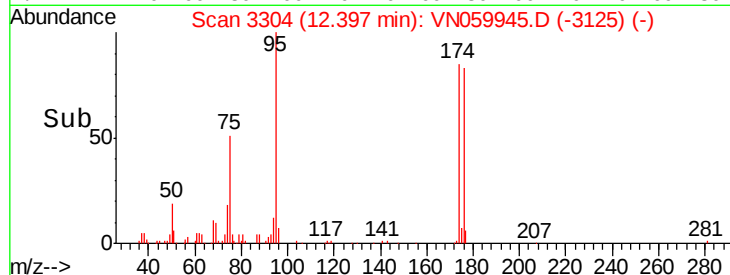
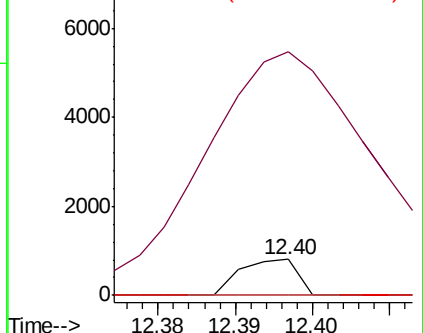
254 0.0 0.0 0.0



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# 3597

Delta R.T. 0.00 min

Lab File: VN059945.D

Acq: 31 Jan 2020 14:11

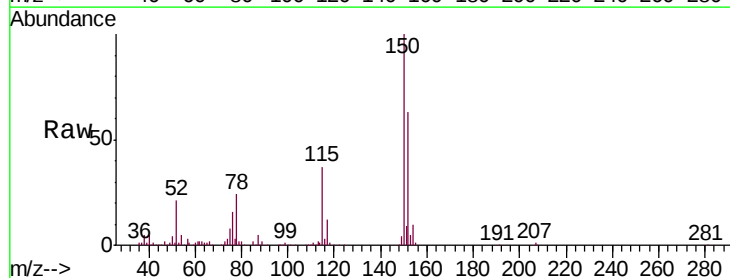
Tgt Ion:152 Resp: 125195

Ion Ratio Lower Upper

152 100

115 58.1 30.3 90.9

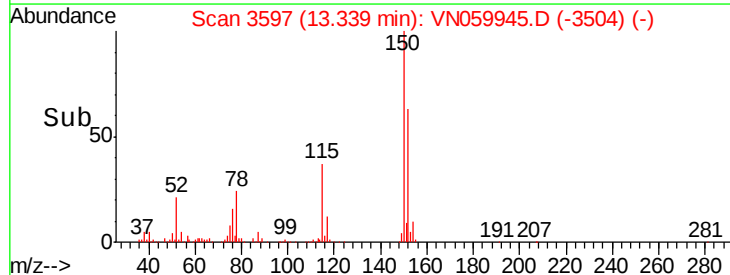
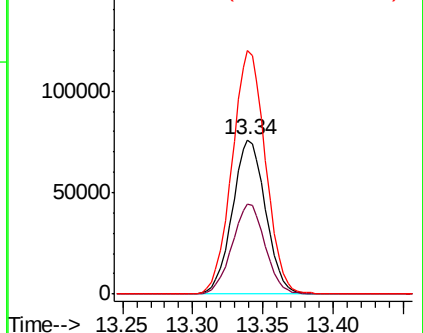
150 159.1 0.0 345.2

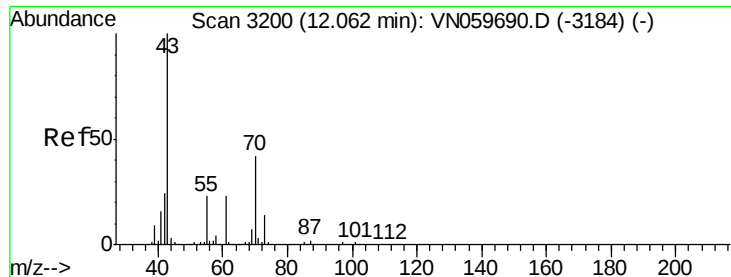


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.670 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN059945.D

Acq: 31 Jan 2020 14:11

Instrument :

MSVOA_N

ClientSampleId :

200029

Tgt Ion: 43 Resp: 2388

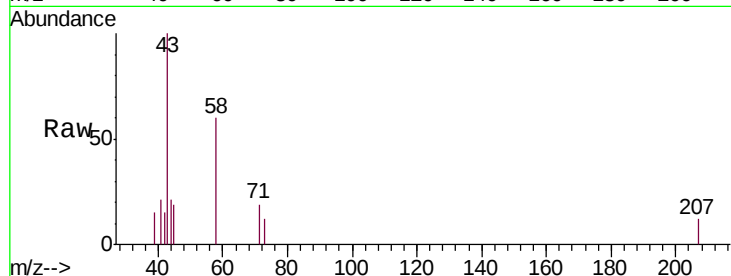
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

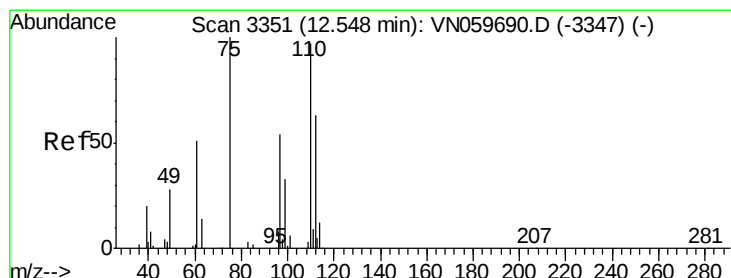
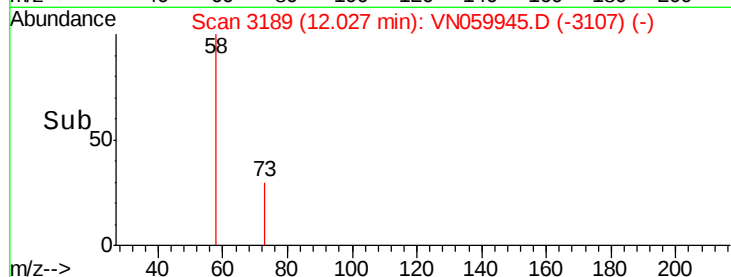
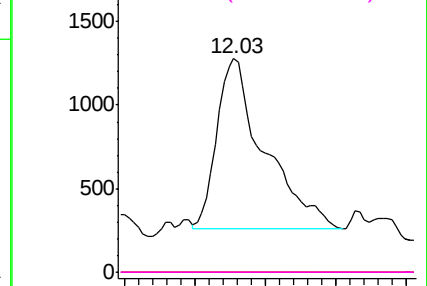


Abundance Ion 43.00 (42.70 to 43.70): VN059690.D (-3184) (-)

Ion 70.00 (69.70 to 70.70): VN059690.D (-3184) (-)

Ion 55.00 (54.70 to 55.70): VN059690.D (-3184) (-)

Ion 61.00 (60.70 to 61.70): VN059690.D (-3184) (-)



#76

1,2,3-Trichloropropane

Concen: 31.433 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059945.D

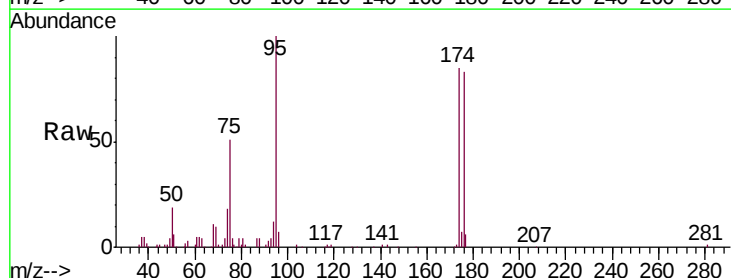
Acq: 31 Jan 2020 14:11

Tgt Ion: 75 Resp: 66226

Ion Ratio Lower Upper

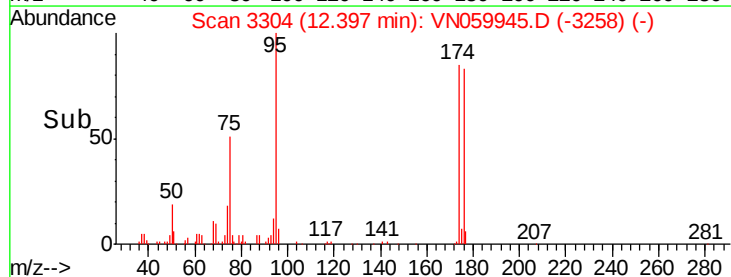
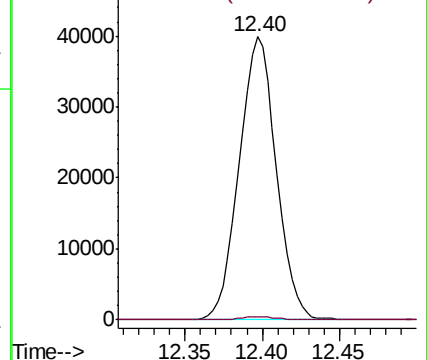
75 100

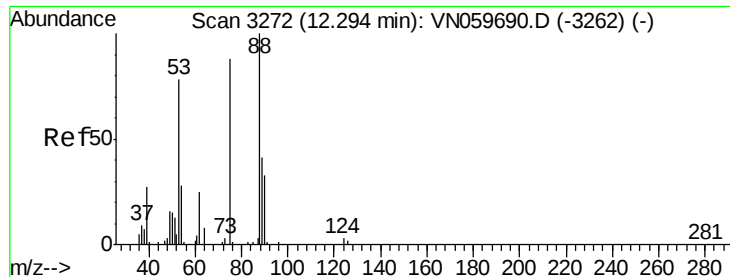
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN059690.D (-3347) (-)

Ion 77.00 (76.70 to 77.70): VN059690.D (-3347) (-)

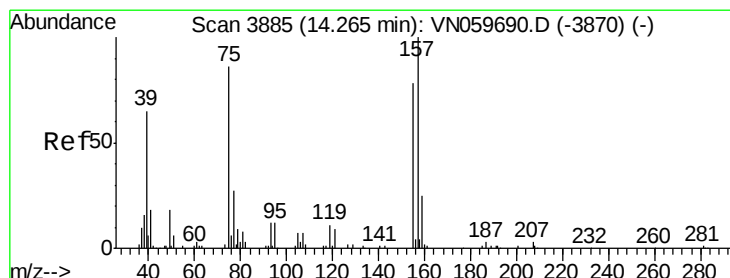
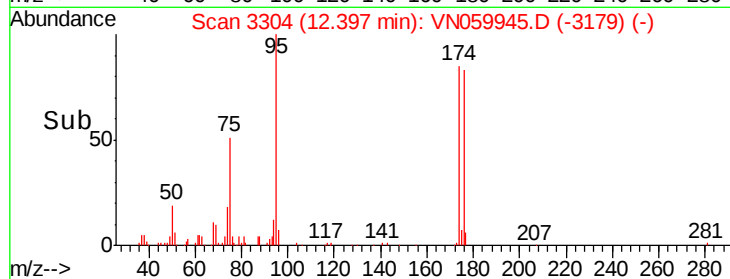
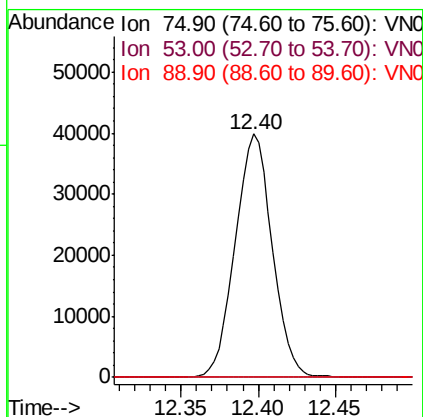
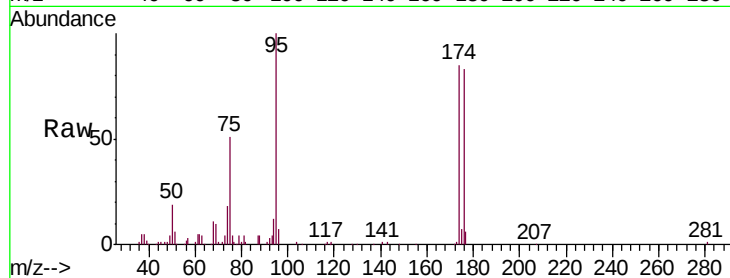




#81
trans-1,4-Dichloro-2-butene
Concen: 67.502 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN059945.D
Acq: 31 Jan 2020 14:11

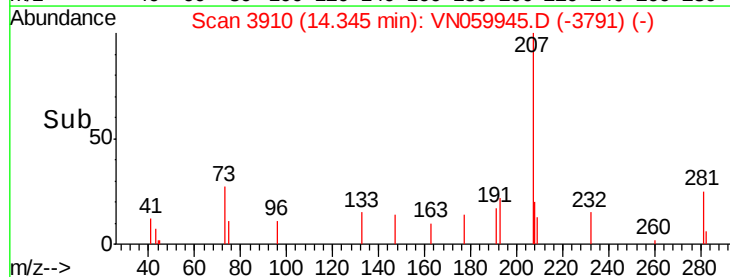
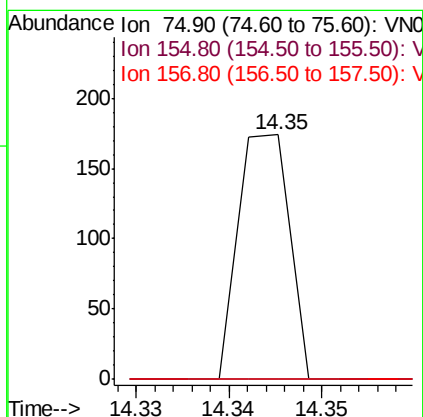
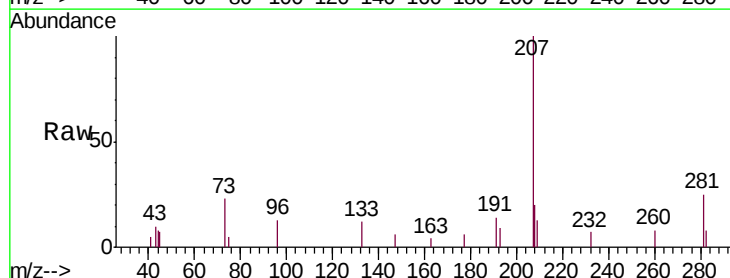
Instrument :
MSVOA_N
ClientSampled :
200029

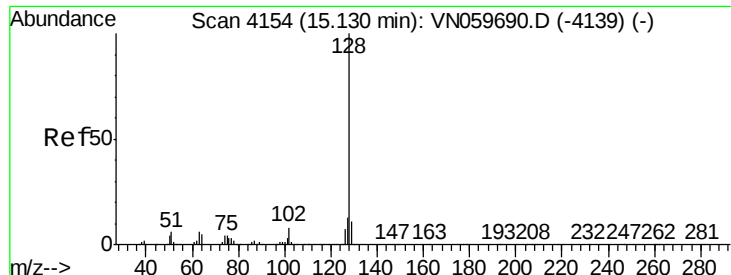
Tgt Ion: 75 Resp: 66226
Ion Ratio Lower Upper
75 100
53 0.0 78.1 117.1#
89 0.0 35.4 53.2#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.35 min Scan# 3910
Delta R.T. 0.08 min
Lab File: VN059945.D
Acq: 31 Jan 2020 14:11

Tgt Ion: 75 Resp: 67
Ion Ratio Lower Upper
75 100
155 0.0 37.0 110.9#
157 0.0 48.4 145.2#





#95

Naphthalene

Concen: 0.254 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN059945.D

Acq: 31 Jan 2020 14:11

Instrument :

MSVOA_N

ClientSampleId :

200029

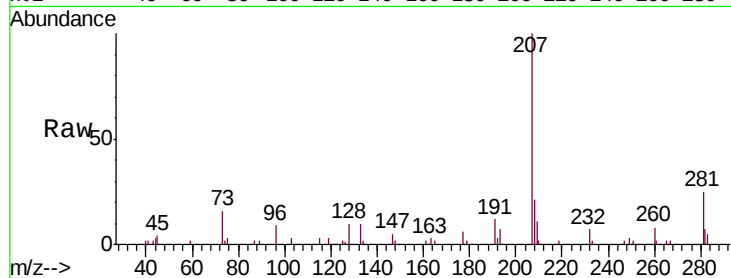
Tgt Ion:128 Resp: 1735

Ion Ratio Lower Upper

128 100

127 1.7 10.4 15.6#

129 0.0 8.6 12.8#



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

