

Data File : VN059939.D
Acq On : 31 Jan 2020 11:33
Operator : JC/MD
Sample : VN0131WBL01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0131WBL01

Quant Time: Feb 03 01:18:14 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	175720	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	264889	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	228917	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	85624	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	97141	49.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.56%	
35) Dibromofluoromethane	7.57	113	79692	50.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.90%	
50) Toluene-d8	10.08	98	313190	51.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.34%	
62) 4-Bromofluorobenzene	12.40	95	98123	44.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.94%	

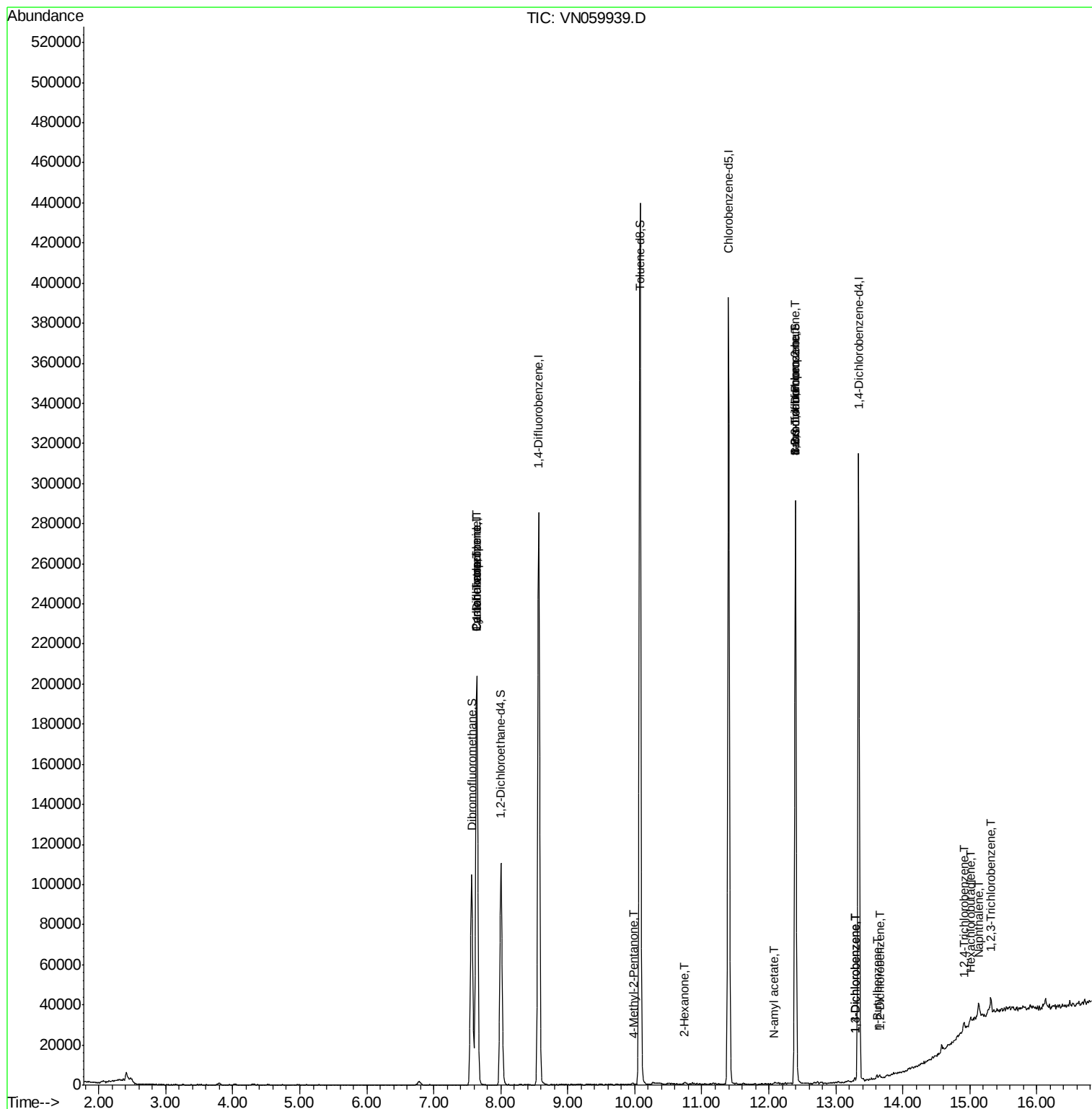
Target Compounds				Qvalue		
16) Acetone	3.79	43	1627	Below Cal		96
31) Cyclohexane	7.64	56	3455	1.197 ug/l #		1
36) 1,1-Dichloropropene	7.64	75	12119	5.254 ug/l #		46
38) Carbon Tetrachloride	7.64	117	15905	6.339 ug/l #		17
51) 4-Methyl-2-Pentanone	9.98	43	640	0.298 ug/l #		38
59) 2-Hexanone	10.74	43	611	0.386 ug/l		88
71) Bromoform	12.39	173	284	0.204 ug/l #		1
74) N-amyl acetate	12.08	43	665	0.273 ug/l #		45
76) 1,2,3-Trichloropropane	12.40	75	49834	34.584 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	49834	74.269 ug/l #		11
87) 1,3-Dichlorobenzene	13.28	146	619	0.224 ug/l		79
88) 1,4-Dichlorobenzene	13.28	146	619	0.225 ug/l		79
89) n-Butylbenzene	13.62	91	1130	0.239 ug/l #		68
91) 1,2-Dichlorobenzene	13.65	146	795	0.291 ug/l		93
92) 1,2-Dibromo-3-Chloropropan	14.27	75	61	Below Cal #		6
93) 1,2,4-Trichlorobenzene	14.91	180	1966	1.198 ug/l		89
94) Hexachlorobutadiene	15.01	225	678	0.750 ug/l		97
95) Naphthalene	15.13	128	7333	1.571 ug/l		96
96) 1,2,3-Trichlorobenzene	15.32	180	3013	1.886 ug/l		99

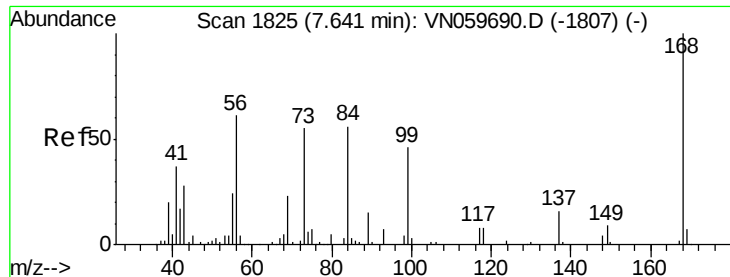
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN059939.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_N

ClientSampleId :

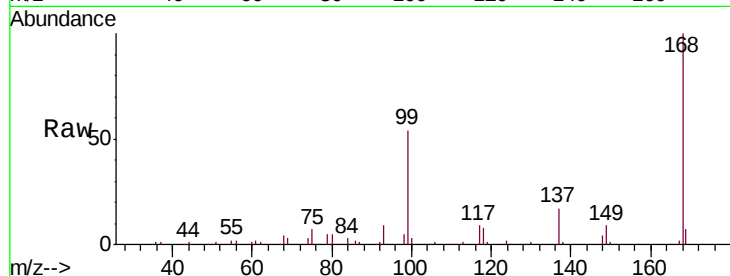
VN0131WBL01

Tgt Ion:168 Resp: 175720

Ion Ratio Lower Upper

168 100

99 53.8 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VN059939.D (-1732) (-)

Ion 98.90 (98.60 to 99.60): VN059939.D (-1732) (-)

7.64

80000

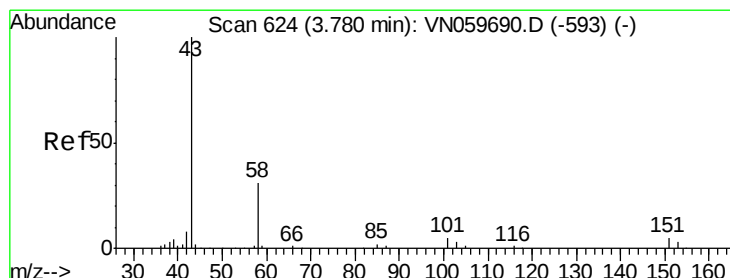
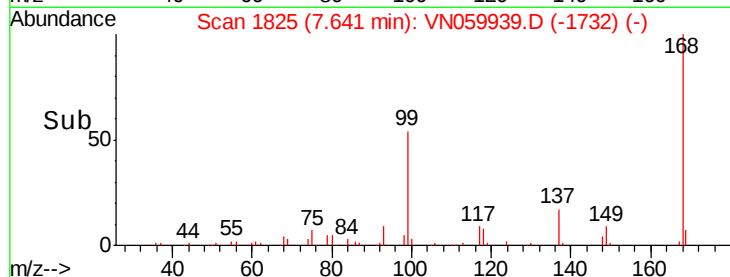
60000

40000

20000

0

Time--> 7.50 7.60 7.70 7.80



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN059939.D

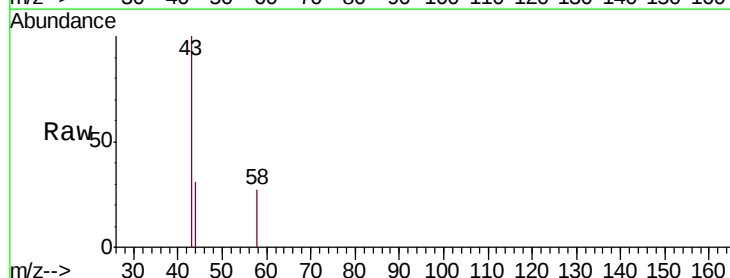
Acq: 31 Jan 2020 11:33

Tgt Ion: 43 Resp: 1627

Ion Ratio Lower Upper

43 100

58 27.4 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN059939.D (-531) (-)

Ion 58.00 (57.70 to 58.70): VN059939.D (-531) (-)

3.79

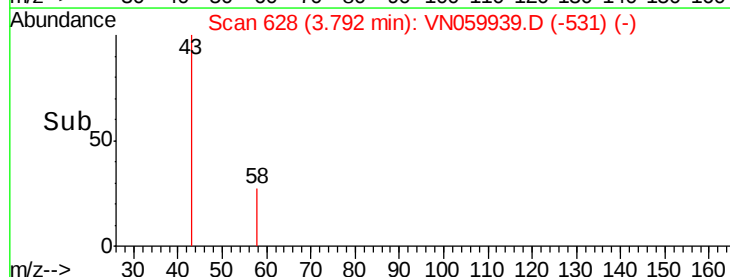
600

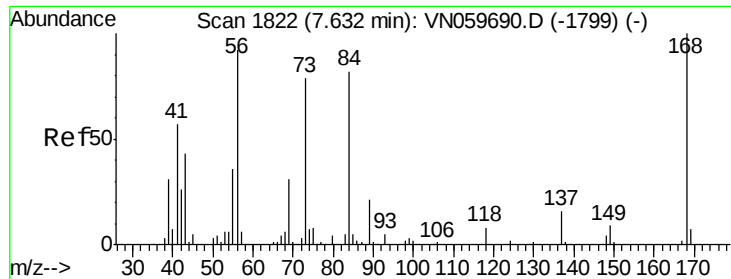
400

200

0

Time--> 3.75 3.80 3.85

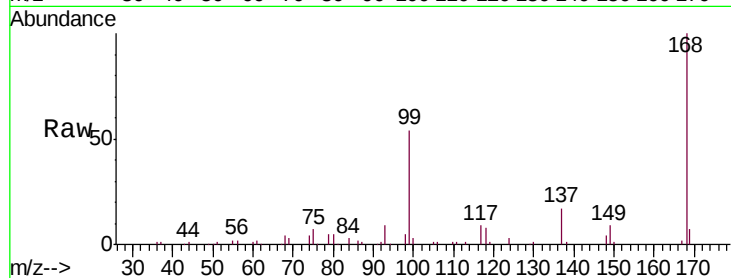




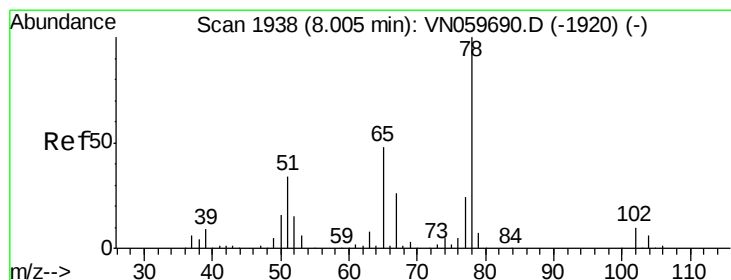
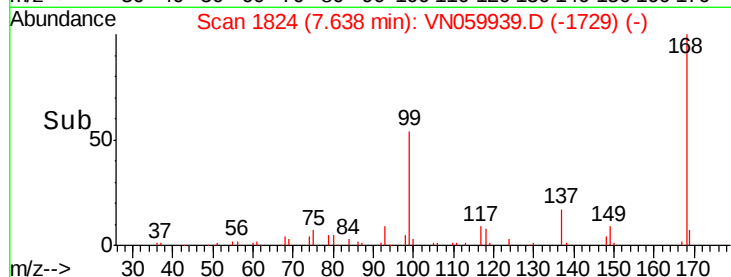
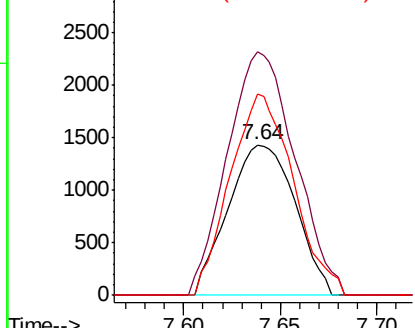
#31
Cyclohexane
Concen: 1.197 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN059939.D
Acq: 31 Jan 2020 11:33

Instrument :
MSVOA_N
ClientSampleId :
VN0131WBL01

Tgt Ion: 56 Resp: 3455
Ion Ratio Lower Upper
56 100
69 162.1 26.5 39.7#
84 133.8 65.3 97.9#

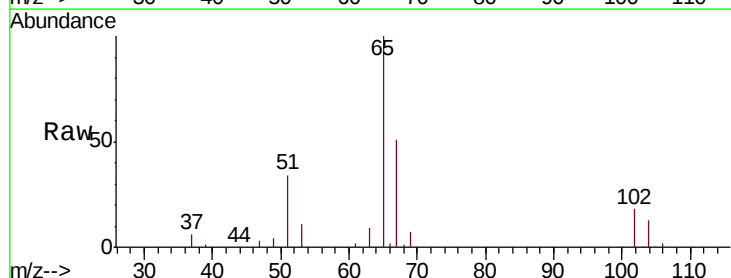


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

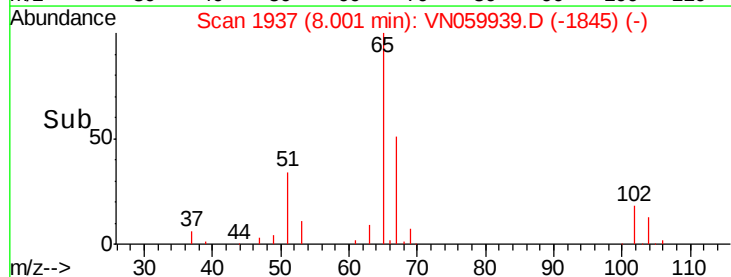
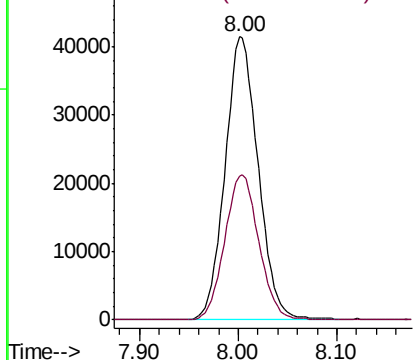


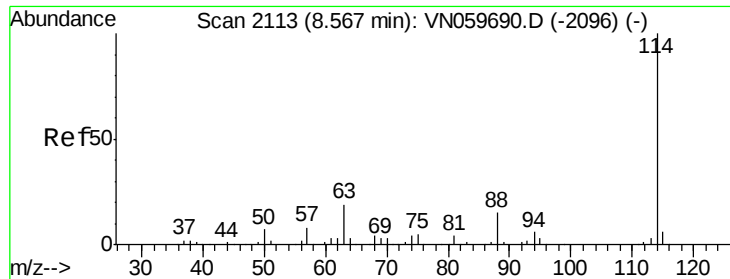
#33
1,2-Dichloroethane-d4
Concen: 49.780 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VN059939.D
Acq: 31 Jan 2020 11:33

Tgt Ion: 65 Resp: 97141
Ion Ratio Lower Upper
65 100
67 52.7 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

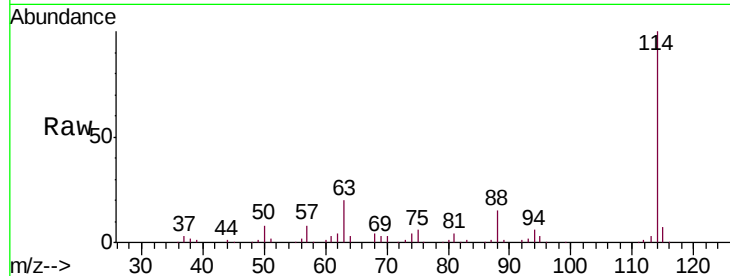




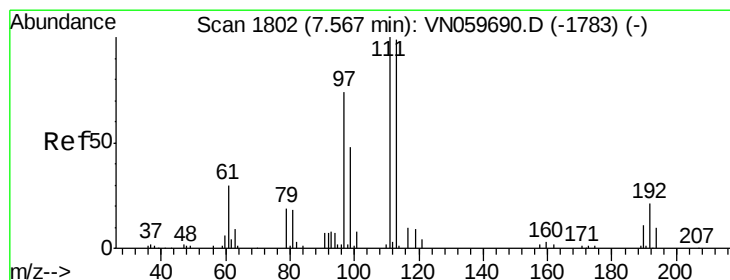
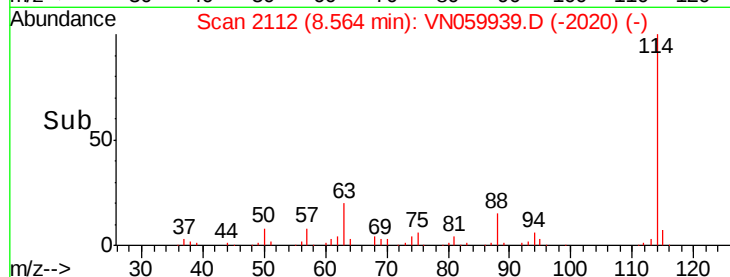
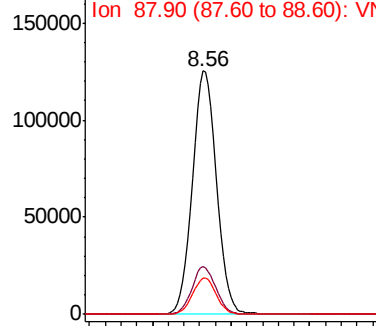
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN059939.D
 Acq: 31 Jan 2020 11:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0131WBL01

Tgt Ion:114 Resp: 264889
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 43.6
 88 15.1 0.0 31.4

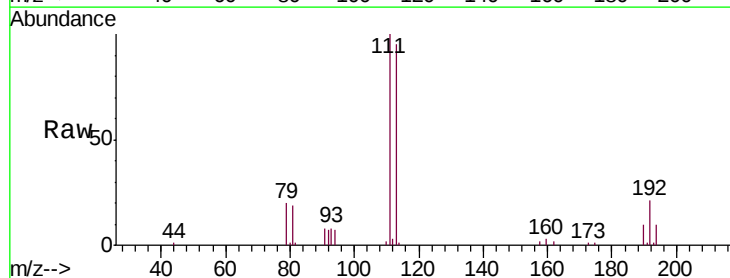


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

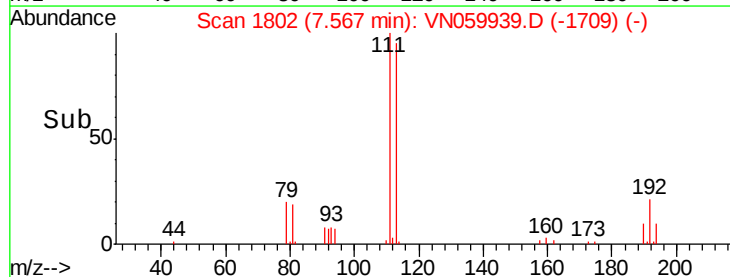
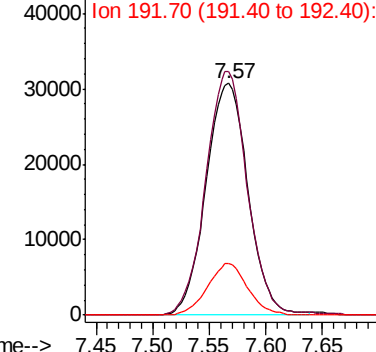


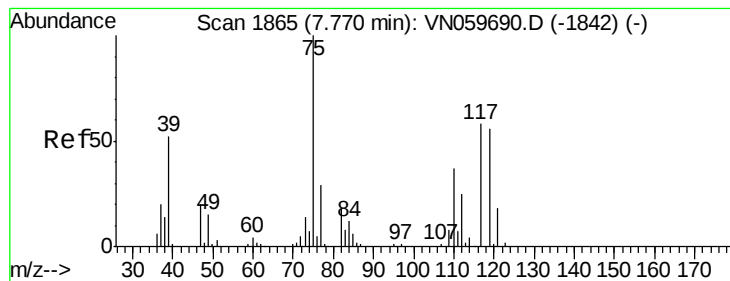
#35
 Dibromofluoromethane
 Concen: 50.449 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059939.D
 Acq: 31 Jan 2020 11:33

Tgt Ion:113 Resp: 79692
 Ion Ratio Lower Upper
 113 100
 111 103.8 83.5 125.3
 192 21.1 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: 5.254 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.13 min

Lab File: VN059939.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_N

ClientSampleId :

VN0131WBL01

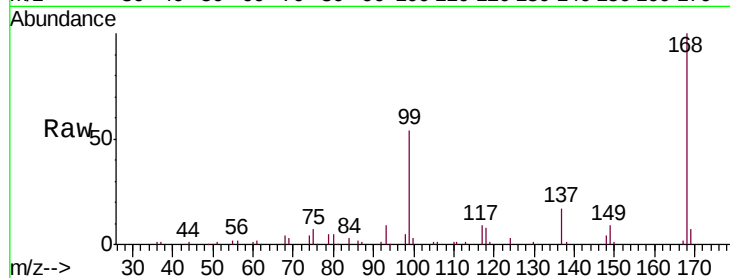
Tgt Ion: 75 Resp: 12119

Ion Ratio Lower Upper

75 100

110 4.6 16.6 49.7#

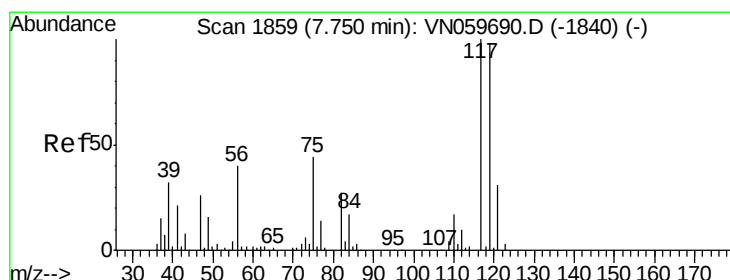
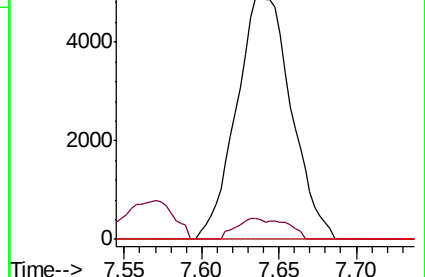
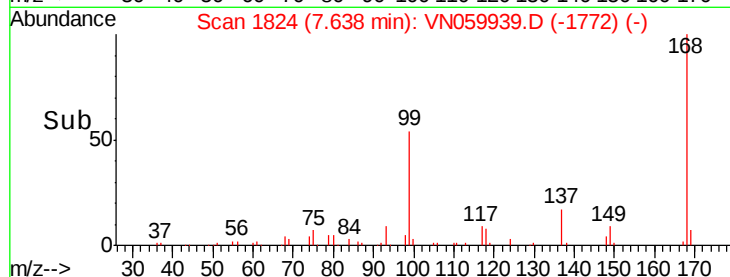
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN059939.D (-1772) (-)

Ion 109.90 (109.60 to 110.60): VN059939.D (-1772) (-)

Ion 76.90 (76.60 to 77.60): VN059939.D (-1772) (-)



#38

Carbon Tetrachloride

Concen: 6.339 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN059939.D

Acq: 31 Jan 2020 11:33

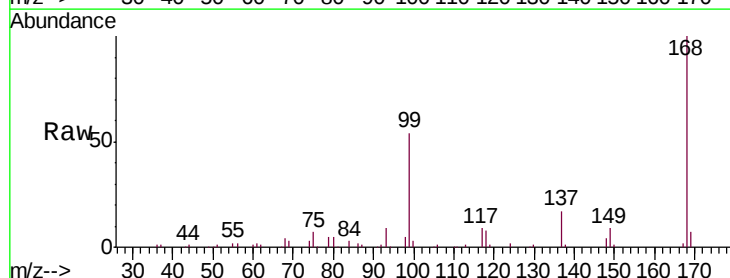
Tgt Ion: 117 Resp: 15905

Ion Ratio Lower Upper

117 100

119 6.0 76.5 114.7#

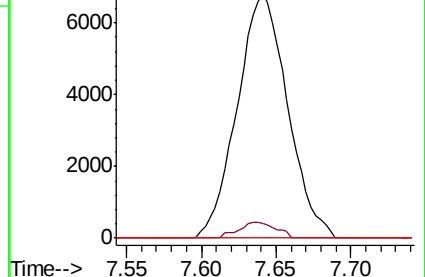
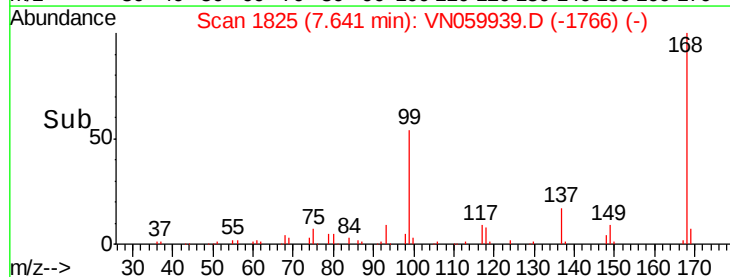
121 0.0 25.1 37.7#

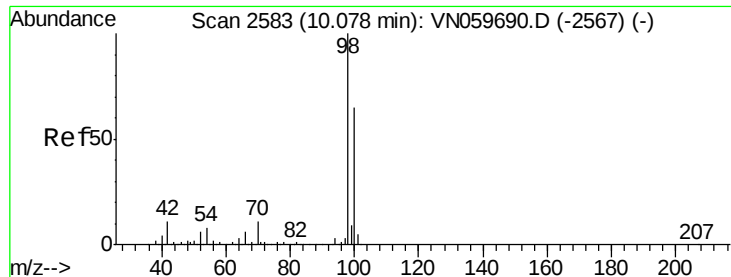


Abundance Ion 116.80 (116.50 to 117.50): VN059939.D (-1766) (-)

Ion 118.80 (118.50 to 119.50): VN059939.D (-1766) (-)

Ion 120.80 (120.50 to 121.50): VN059939.D (-1766) (-)





#50

Toluene-d8

Concen: 51.172 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN059939.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_N

ClientSampleId :

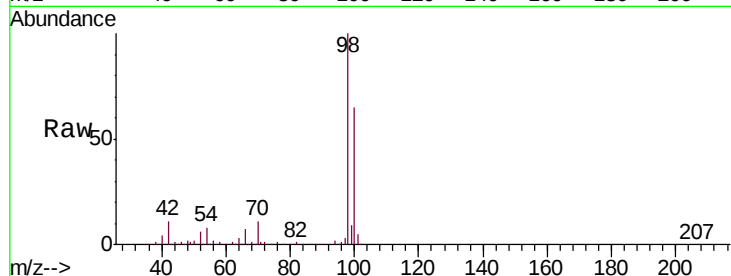
VN0131WBL01

Tgt Ion: 98 Resp: 313190

Ion Ratio Lower Upper

98 100

100 64.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN059690.D (-2567) (-)

Ion 100.00 (99.70 to 100.70): VN059690.D (-2567) (-)

10.08

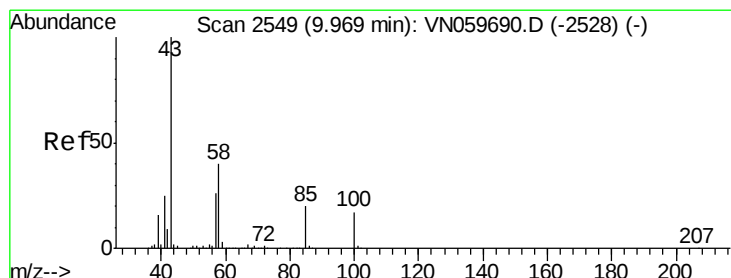
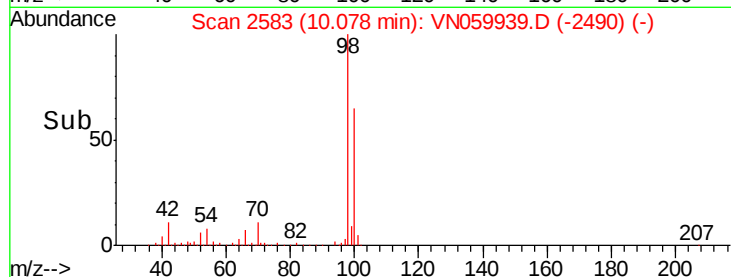
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.298 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.01 min

Lab File: VN059939.D

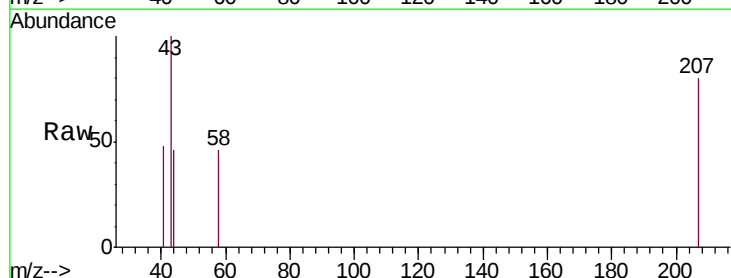
Acq: 31 Jan 2020 11:33

Tgt Ion: 43 Resp: 640

Ion Ratio Lower Upper

43 100

58 0.0 29.8 44.8#



Abundance Ion 43.00 (42.70 to 43.70): VN059690.D (-2528) (-)

Ion 58.00 (57.70 to 58.70): VN059690.D (-2528) (-)

9.98

400

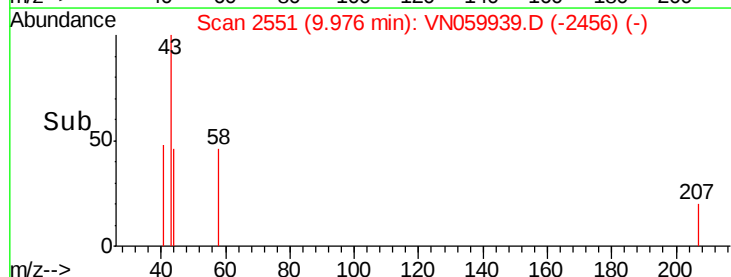
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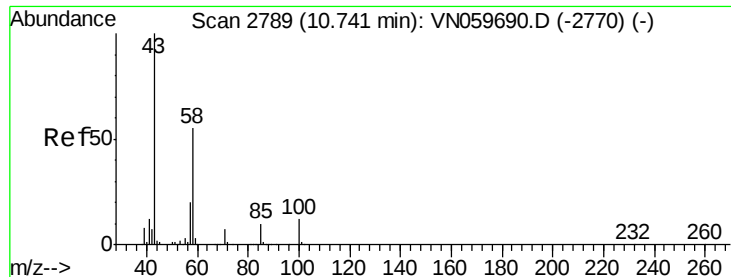
200

100

0

Time-->

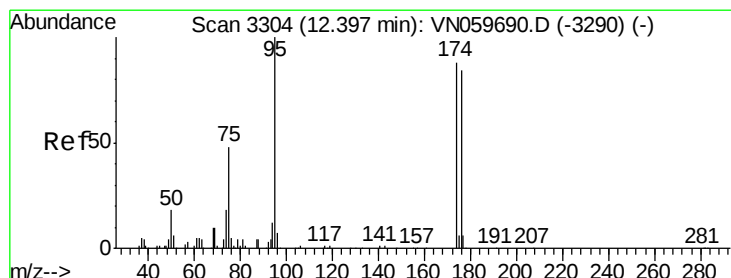
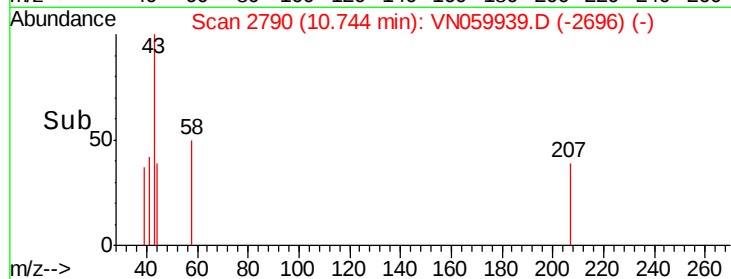
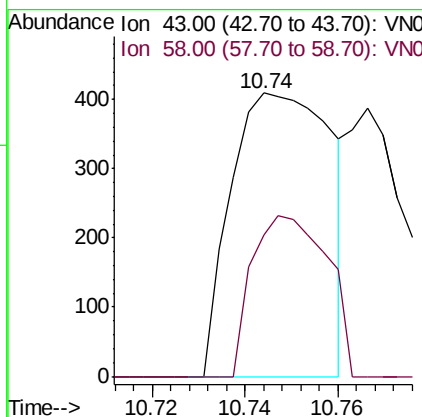
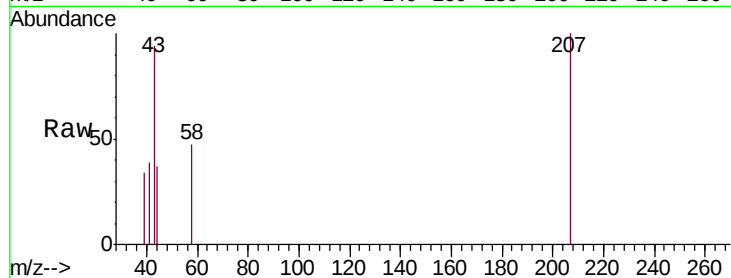




#59
2-Hexanone
Concen: 0.386 ug/l
RT: 10.74 min Scan# 2790
Delta R.T. 0.00 min
Lab File: VN059939.D
Acq: 31 Jan 2020 11:33

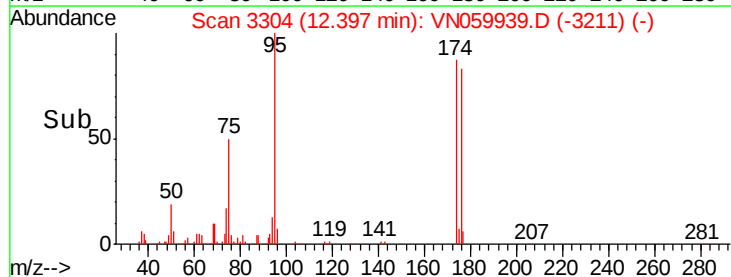
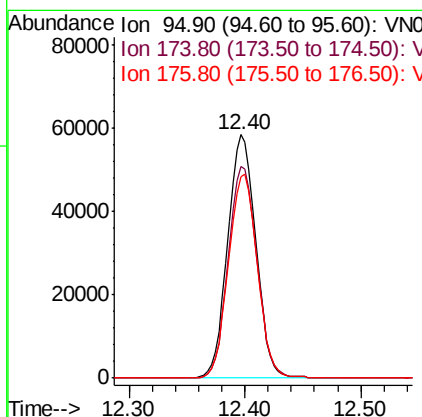
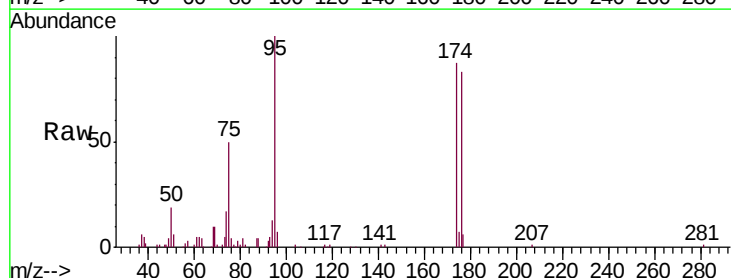
Instrument :
MSVOA_N
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VN0131WBL01

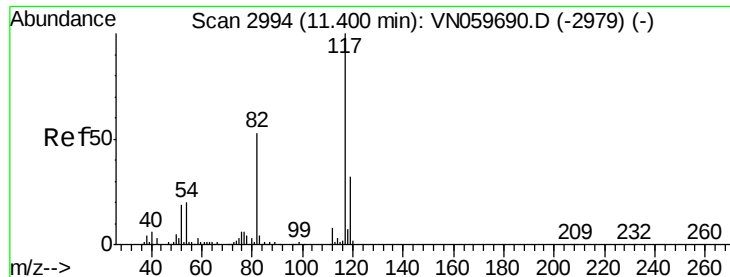
Tgt Ion: 43 Resp: 611
Ion Ratio Lower Upper
43 100
58 43.0 25.8 77.3



#62
4-Bromofluorobenzene
Concen: 44.472 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN059939.D
Acq: 31 Jan 2020 11:33

Tgt Ion: 95 Resp: 98123
Ion Ratio Lower Upper
95 100
174 88.3 0.0 151.4
176 85.3 0.0 146.0

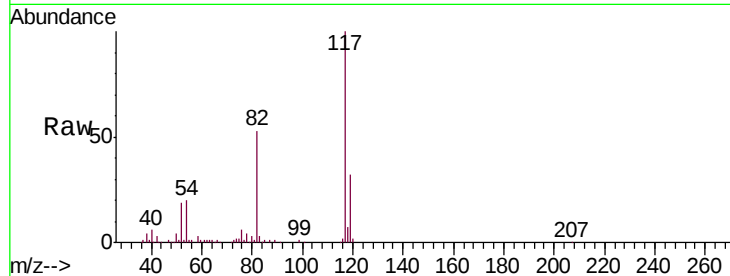




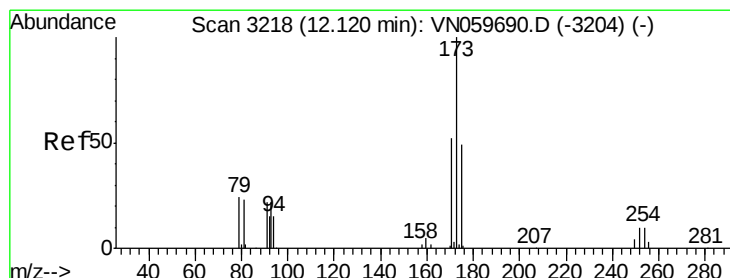
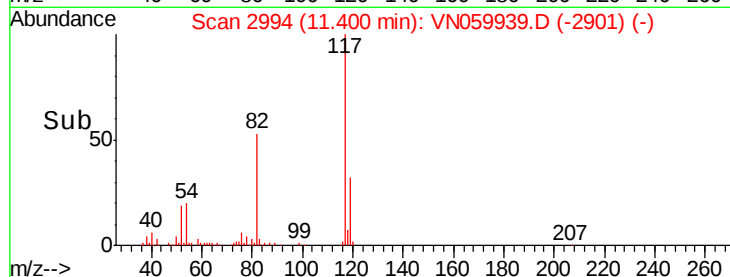
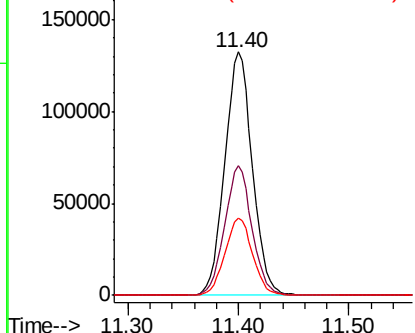
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059939.D
Acq: 31 Jan 2020 11:33

Instrument :
MSVOA_N
ClientSampleId :
VN0131WBL01

Tgt Ion:117 Resp: 228917
Ion Ratio Lower Upper
117 100
82 53.0 45.9 68.9
119 31.7 25.5 38.3

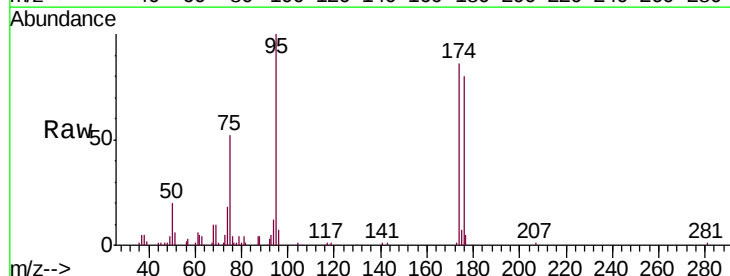


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

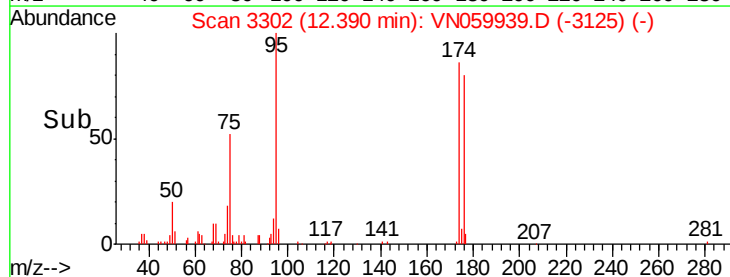
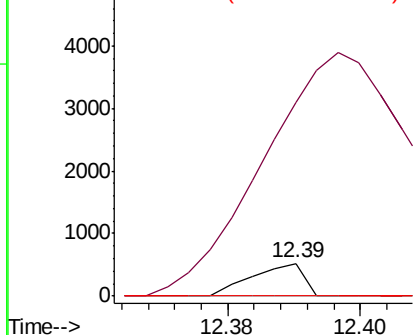


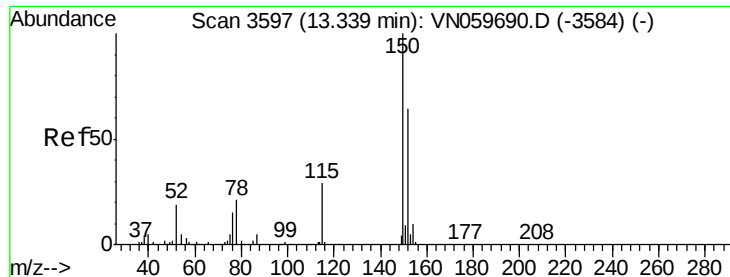
#71
Bromoform
Concen: 0.204 ug/l
RT: 12.39 min Scan# 3302
Delta R.T. 0.27 min
Lab File: VN059939.D
Acq: 31 Jan 2020 11:33

Tgt Ion:173 Resp: 284
Ion Ratio Lower Upper
173 100
175 1840.5 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

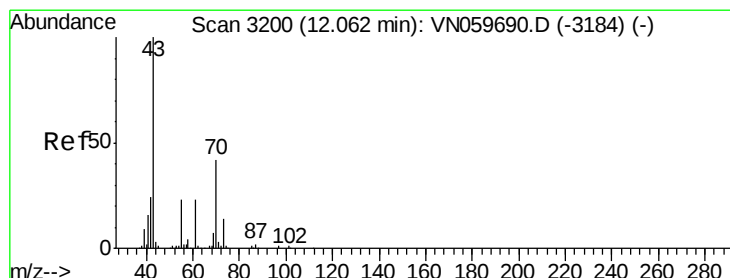
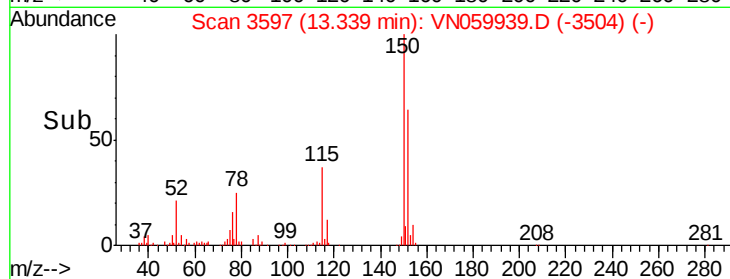
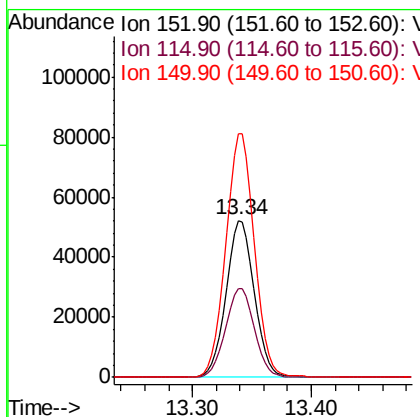
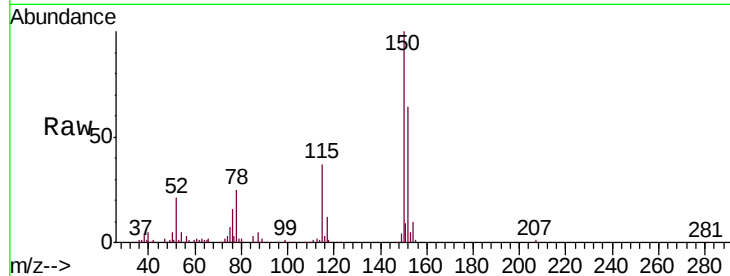




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.34 min Scan# 3597
 Delta R.T. 0.00 min
 Lab File: VN059939.D
 Acq: 31 Jan 2020 11:33

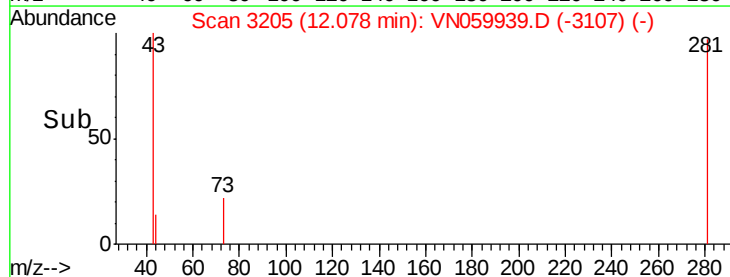
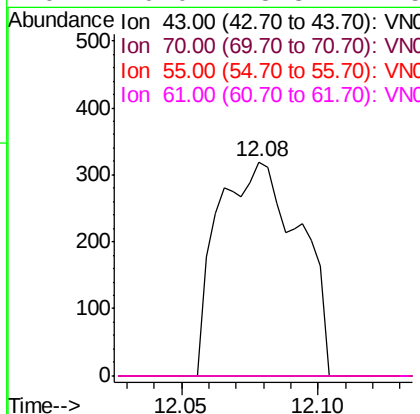
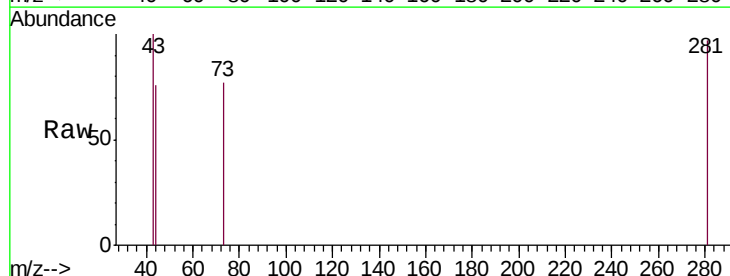
Instrument :
 MSVOA_N
 ClientSampled :
 VN0131WBL01

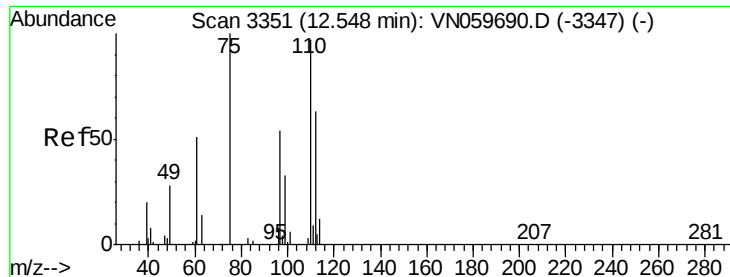
Tgt Ion: 152 Resp: 85624
 Ion Ratio Lower Upper
 152 100
 115 58.2 30.3 90.9
 150 157.7 0.0 345.2



#74
 N-ethyl acetate
 Concen: 0.273 ug/l
 RT: 12.08 min Scan# 3205
 Delta R.T. 0.02 min
 Lab File: VN059939.D
 Acq: 31 Jan 2020 11:33

Tgt Ion: 43 Resp: 665
 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#





#76

1,2,3-Trichloropropane

Concen: 34.584 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059939.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_N

ClientSampleId :

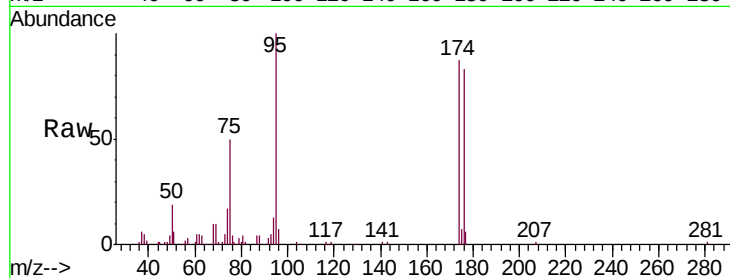
VN0131WBL01

Tgt Ion: 75 Resp: 49834

Ion Ratio Lower Upper

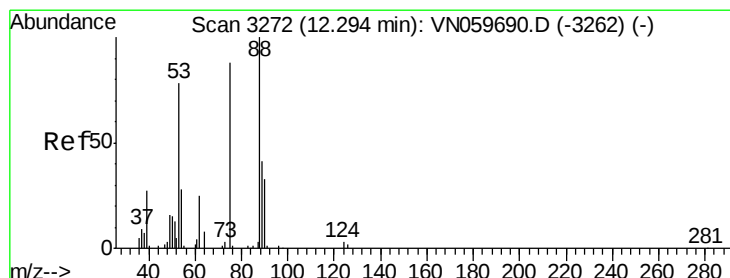
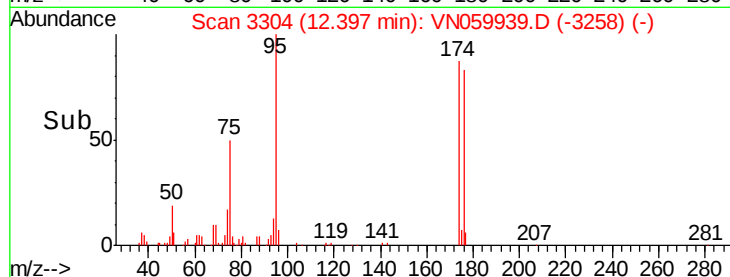
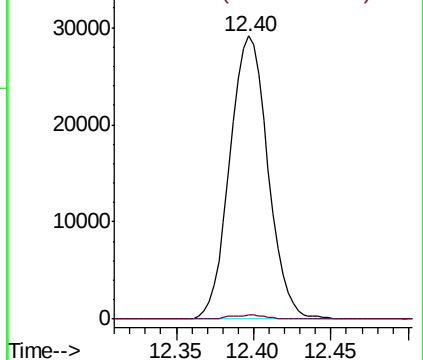
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 74.269 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059939.D

Acq: 31 Jan 2020 11:33

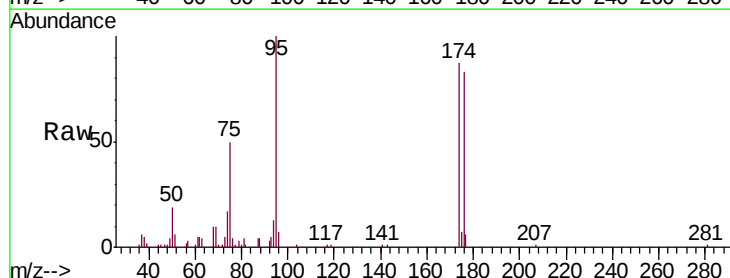
Tgt Ion: 75 Resp: 49834

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

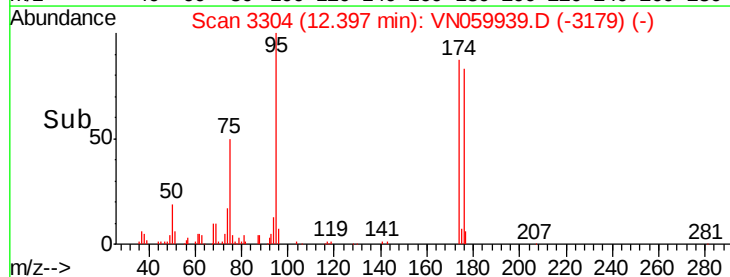
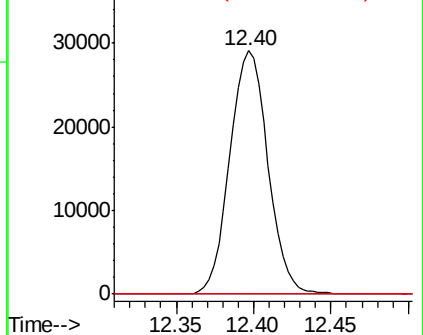
89 0.0 35.4 53.2#

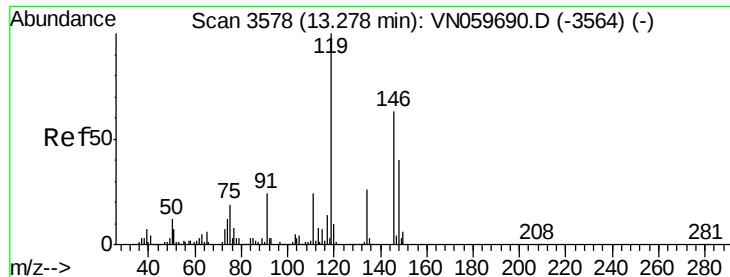


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

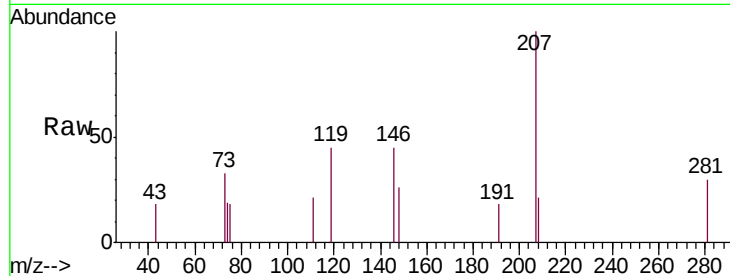




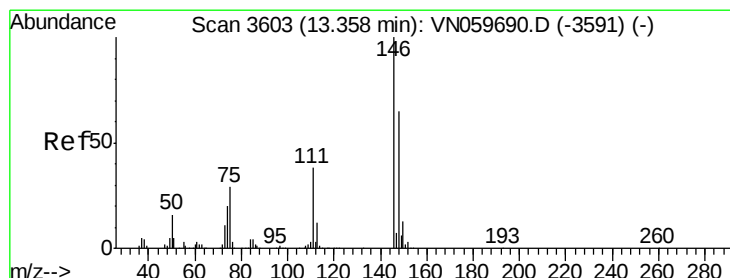
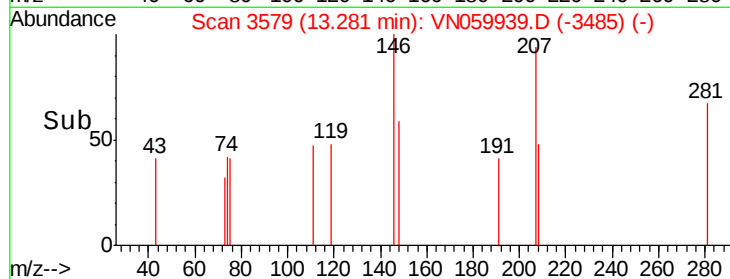
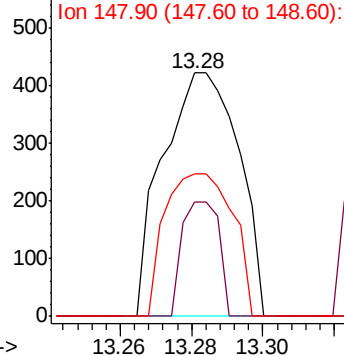
#87
 1,3-Dichlorobenzene
 Concen: 0.224 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN059939.D
 Acq: 31 Jan 2020 11:33

Instrument :
 MSVOA_N
 ClientSampled :
 VN0131WBL01

Tgt Ion:146 Resp: 619
 Ion Ratio Lower Upper
 146 100
 111 22.9 20.8 62.2
 148 52.2 32.0 96.0

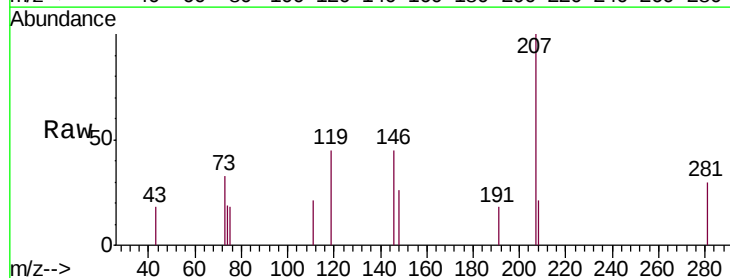


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

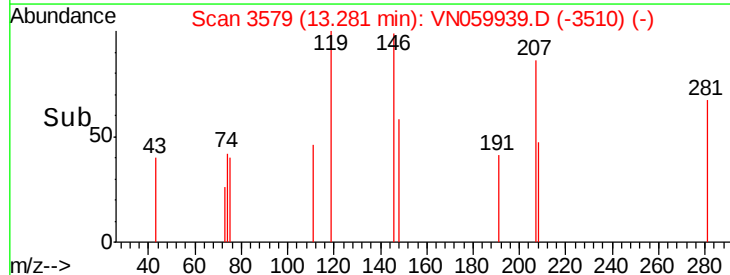
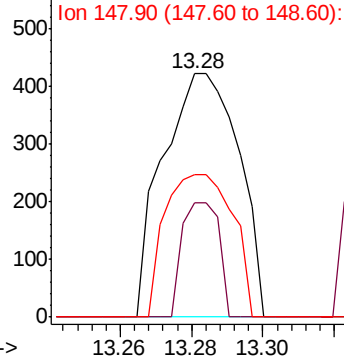


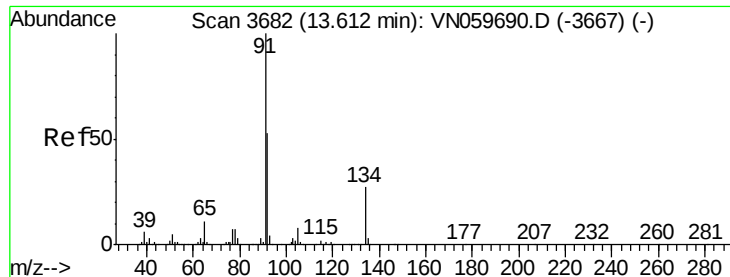
#88
 1,4-Dichlorobenzene
 Concen: 0.225 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.08 min
 Lab File: VN059939.D
 Acq: 31 Jan 2020 11:33

Tgt Ion:146 Resp: 619
 Ion Ratio Lower Upper
 146 100
 111 22.9 20.8 62.2
 148 52.2 31.8 95.4



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: 0.239 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN059939.D

Acq: 31 Jan 2020 11:33

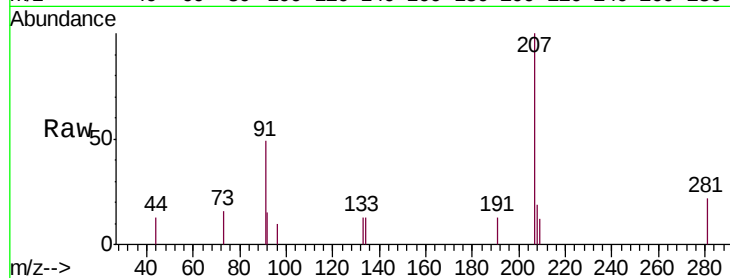
Instrument :

MSVOA_N

ClientSampleId :

VN0131WBL01

Tgt Ion:	91	Resp:	1130
Ion	Ratio	Lower	Upper
91	100		
92	19.8	25.9	77.7#
134	22.1	12.3	36.8

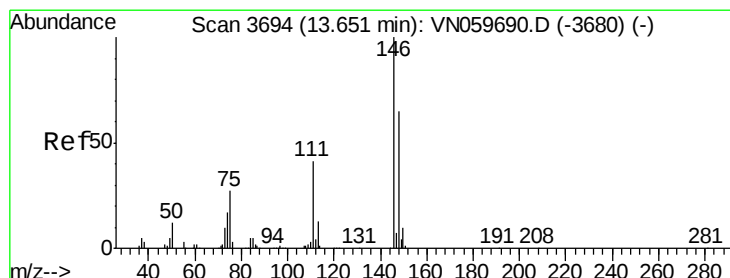
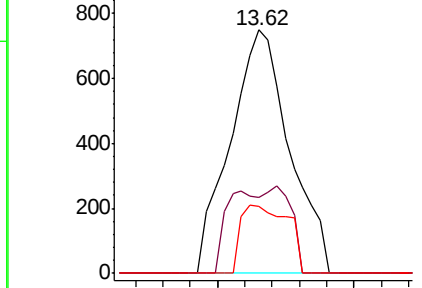
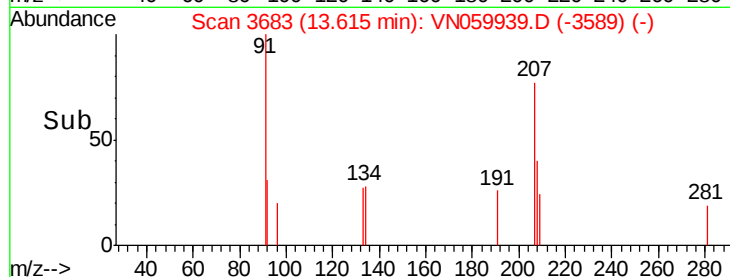


Abundance Ion 91.00 (90.70 to 91.70): VN059939.D (-3682) (-)

Ion 92.00 (91.70 to 92.70): VN059939.D (-3682) (-)

Ion 134.00 (133.70 to 134.70): VN059939.D (-3682) (-)

Time-->



#91

1,2-Dichlorobenzene

Concen: 0.291 ug/l

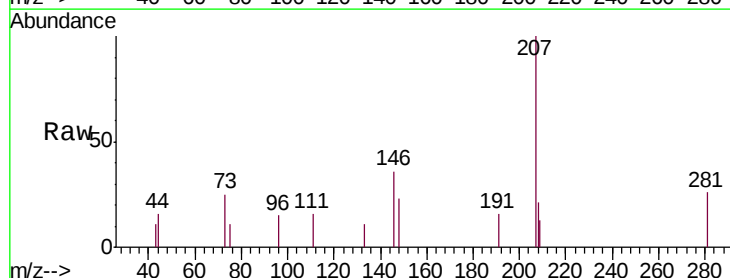
RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN059939.D

Acq: 31 Jan 2020 11:33

Tgt Ion:	146	Resp:	795
Ion	Ratio	Lower	Upper
146	100		
111	33.8	21.6	64.8
148	61.3	31.6	95.0

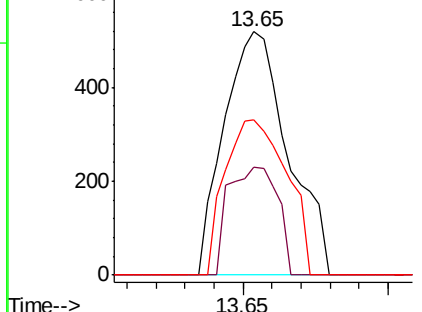
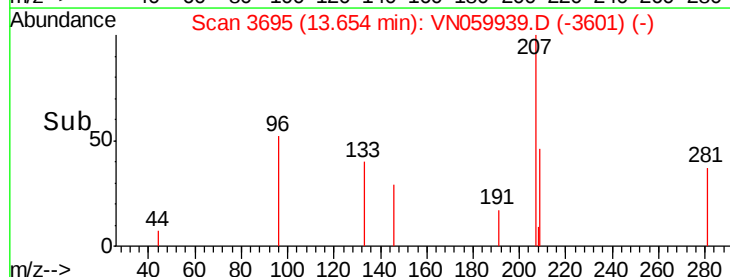


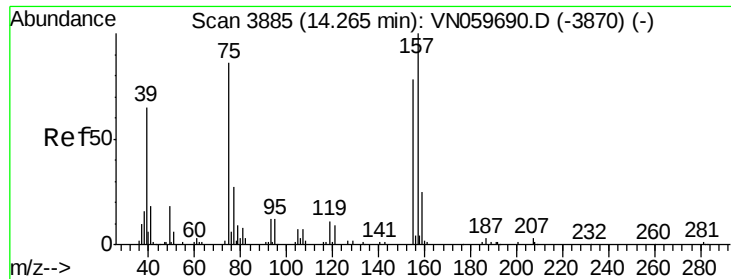
Abundance Ion 145.90 (145.60 to 146.60): VN059939.D (-3694) (-)

Ion 110.90 (110.60 to 111.60): VN059939.D (-3694) (-)

Ion 147.90 (147.60 to 148.60): VN059939.D (-3694) (-)

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.27 min Scan# 3886

Delta R.T. 0.00 min

Lab File: VN059939.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_N

ClientSampleId :

VN0131WBL01

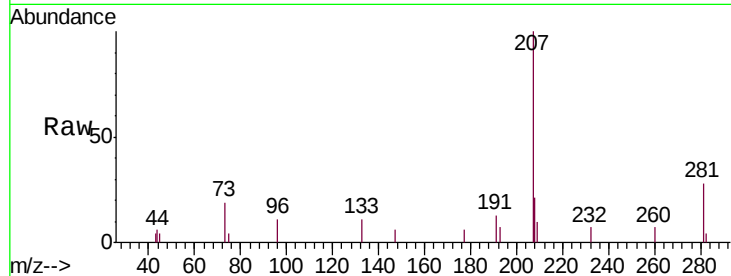
Tgt Ion: 75 Resp: 61

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

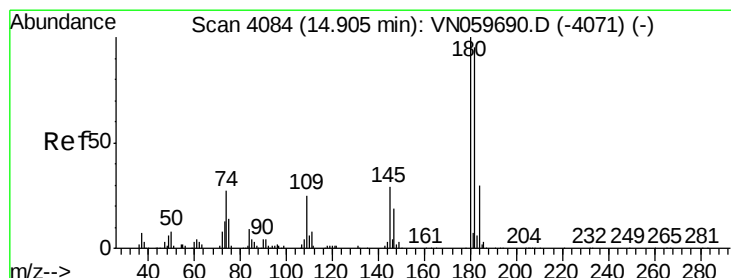
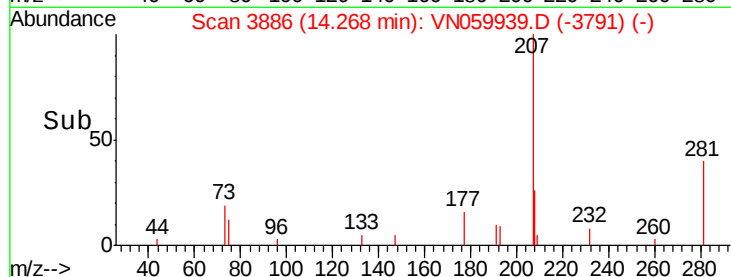
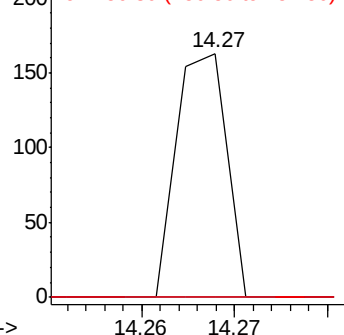
157 0.0 48.4 145.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#93

1,2,4-Trichlorobenzene

Concen: 1.198 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.01 min

Lab File: VN059939.D

Acq: 31 Jan 2020 11:33

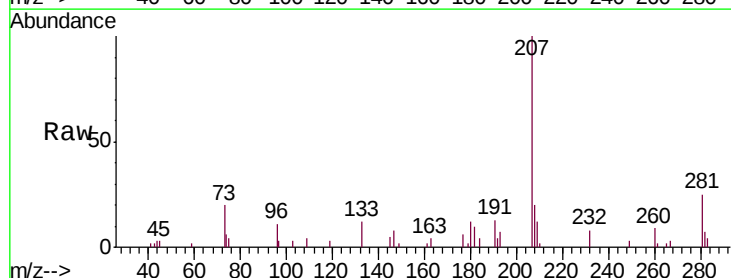
Tgt Ion: 180 Resp: 1966

Ion Ratio Lower Upper

180 100

182 80.4 46.9 140.7

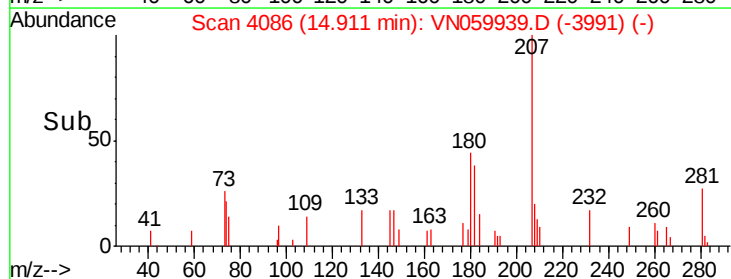
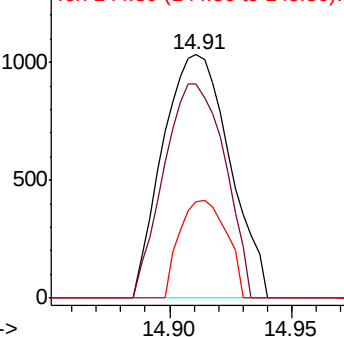
145 28.1 15.0 45.1

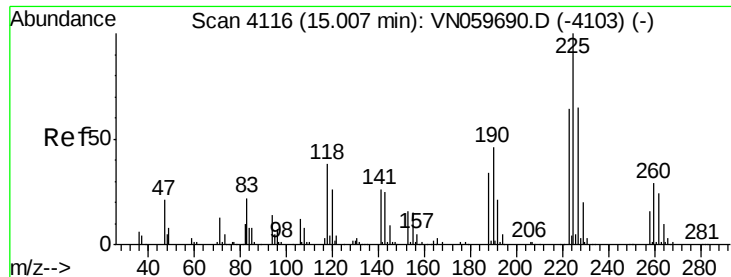


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.750 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN059939.D

Acq: 31 Jan 2020 11:33

Instrument :

MSVOA_N

ClientSampled :

VN0131WBL01

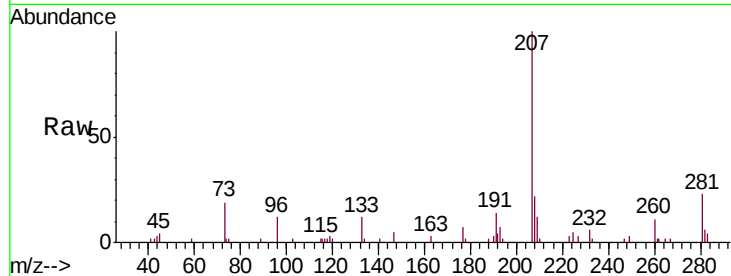
Tgt Ion:225 Resp: 678

Ion Ratio Lower Upper

225 100

223 64.9 31.8 95.3

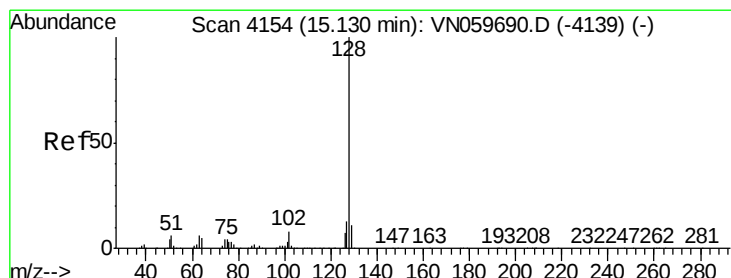
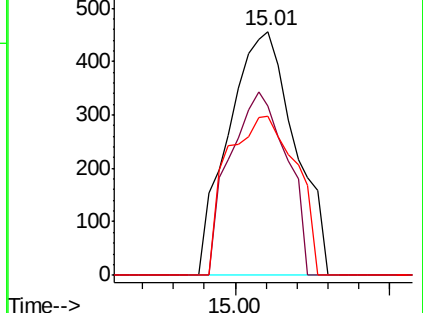
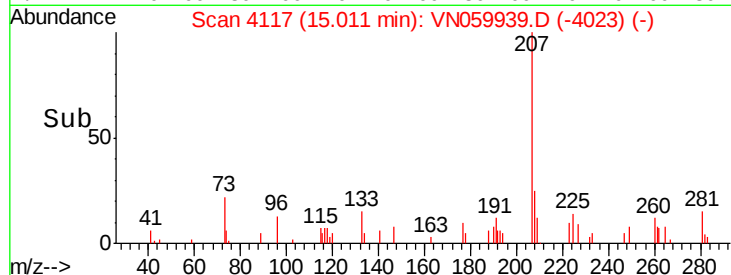
227 68.1 32.1 96.5



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 1.571 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN059939.D

Acq: 31 Jan 2020 11:33

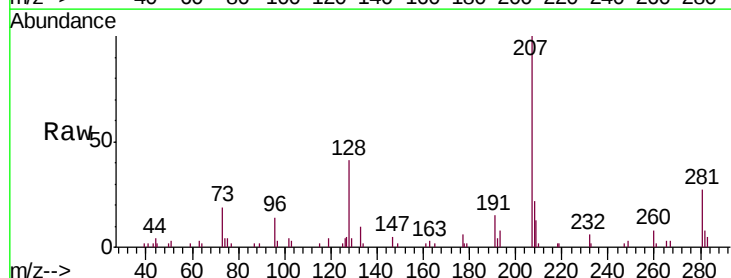
Tgt Ion:128 Resp: 7333

Ion Ratio Lower Upper

128 100

127 11.3 10.4 15.6

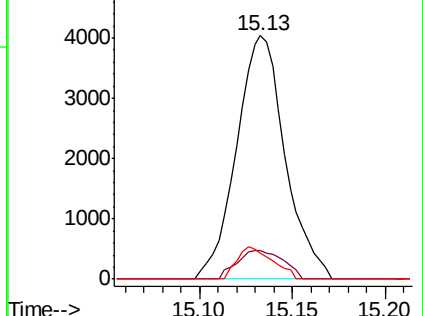
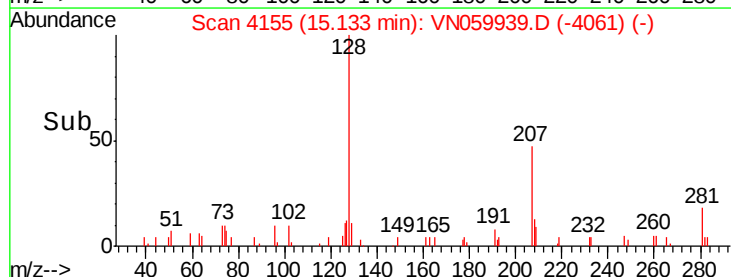
129 9.7 8.6 12.8

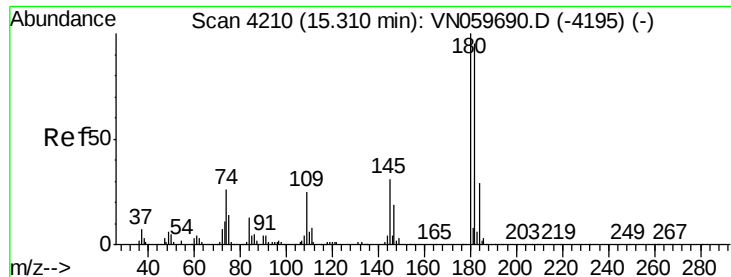


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

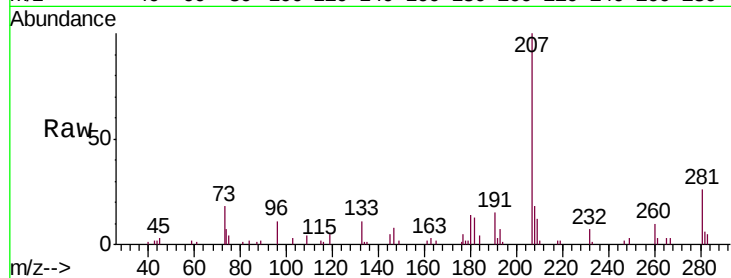




#96
 1,2,3-Trichlorobenzene
 Concen: 1.886 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.01 min
 Lab File: VN059939.D
 Acq: 31 Jan 2020 11:33

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0131WBL01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.3	47.4	142.3
145	33.4	16.3	48.9



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

