

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN020320\
 Data File : VN059972.D
 Acq On : 3 Feb 2020 14:17
 Operator : JC/MD
 Sample : L1016-19
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SU-02-013120

Quant Time: Feb 03 15:21:39 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	195313	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	301408	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	282278	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	127881	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	109404	50.44	ug/l	0.00
Spiked Amount 50.000			Recovery =	100.88%		
35) Dibromofluoromethane	7.57	113	92420	51.42	ug/l	0.00
Spiked Amount 50.000			Recovery =	102.84%		
50) Toluene-d8	10.08	98	364218	52.30	ug/l	0.00
Spiked Amount 50.000			Recovery =	104.60%		
62) 4-Bromofluorobenzene	12.40	95	129599	51.62	ug/l	0.00
Spiked Amount 50.000			Recovery =	103.24%		

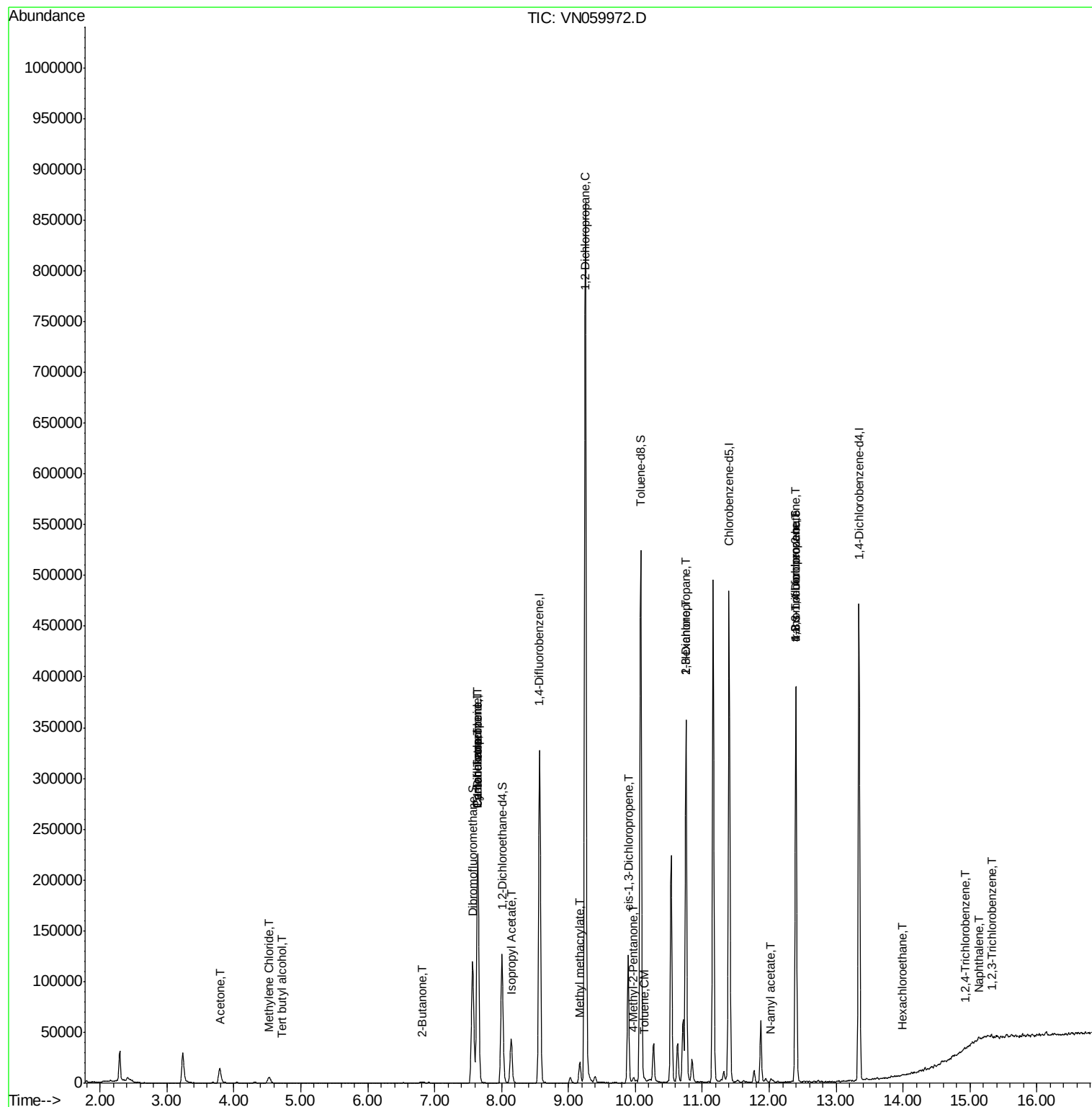
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	252	0.69	ug/l #	72
16) Acetone	3.79	43	24578	24.18	ug/l	98
20) Methylene Chloride	4.52	84	4788	1.18	ug/l	93
25) 2-Butanone	6.82	43	1588	1.29	ug/l	98
31) Cyclohexane	7.64	56	3648	1.14	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	13725	5.23	ug/l #	46
38) Carbon Tetrachloride	7.64	117	17787	6.23	ug/l #	15
43) Isopropyl Acetate	8.14	43	51262	12.11	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1005	0.52	ug/l #	44
48) Methyl methacrylate	9.16	41	3173	1.68	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3573	1.46	ug/l	97
52) Toluene	10.15	92	1372	0.28	ug/l	98
54) cis-1,3-Dichloropropene	9.89	75	22973	7.10	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	3725	1.20	ug/l #	42
59) 2-Hexanone	10.75	43	50874	28.21	ug/l #	56
74) N-amyl acetate	12.02	43	2802	0.77	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	66505	30.90	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	66505	66.36	ug/l #	11
90) Hexachloroethane	13.99	117	477	0.31	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.28	75	64	Below Cal	#	6
93) 1,2,4-Trichlorobenzene	14.91	180	664	0.27	ug/l	87
95) Naphthalene	15.13	128	3009	0.43	ug/l #	89
96) 1,2,3-Trichlorobenzene	15.32	180	817	0.34	ug/l	81

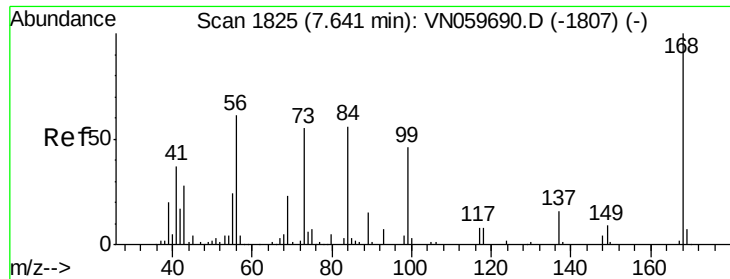
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jan 18 03:09:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059972.D

Acq: 3 Feb 2020 14:17

Instrument :

MSVOA_N

ClientSampleId :

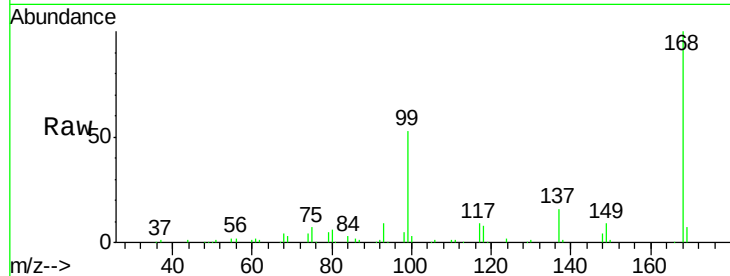
SU-02-013120

Tgt Ion: 168 Resp: 195313

Ion Ratio Lower Upper

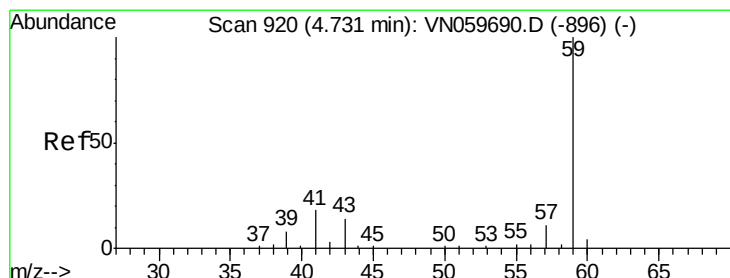
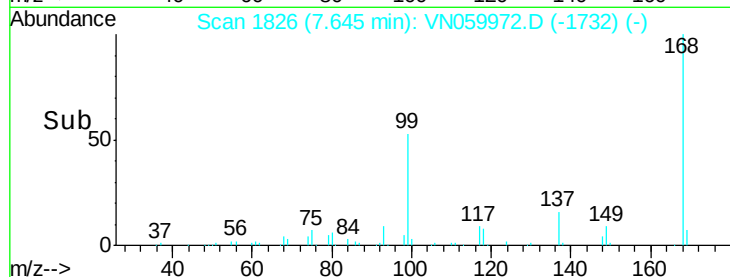
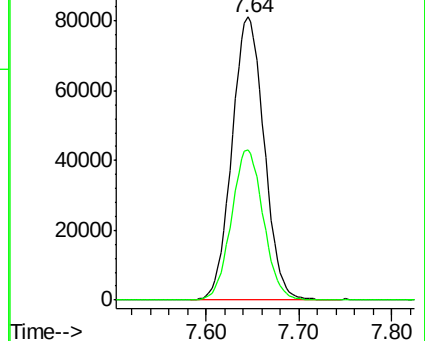
168 100

99 53.2 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 0.69 ug/l

RT: 4.73 min Scan# 920

Delta R.T. 0.00 min

Lab File: VN059972.D

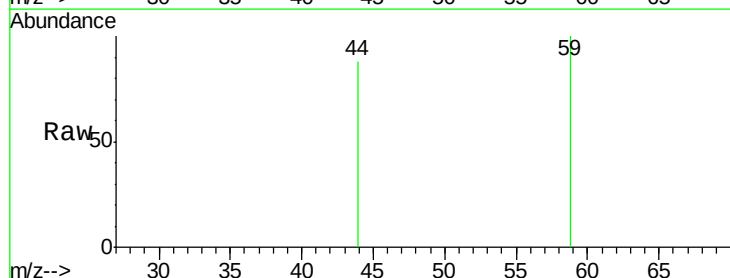
Acq: 3 Feb 2020 14:17

Tgt Ion: 59 Resp: 252

Ion Ratio Lower Upper

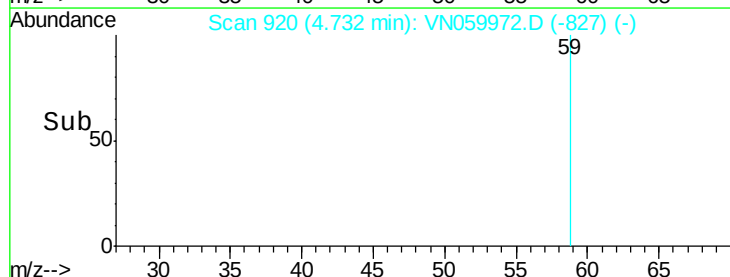
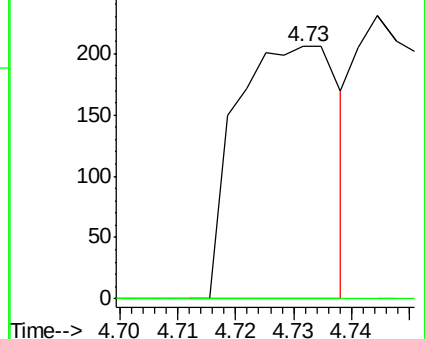
59 100

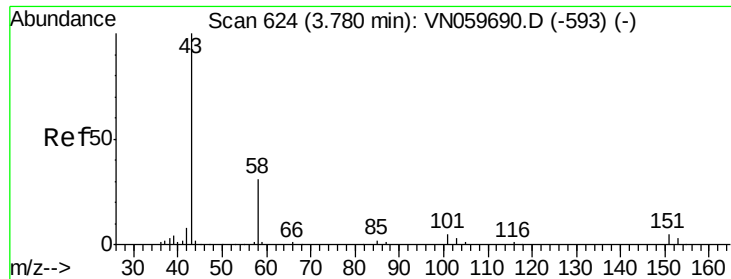
57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 24.18 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN059972.D

Acq: 3 Feb 2020 14:17

Instrument :

MSVOA_N

ClientSampleId :

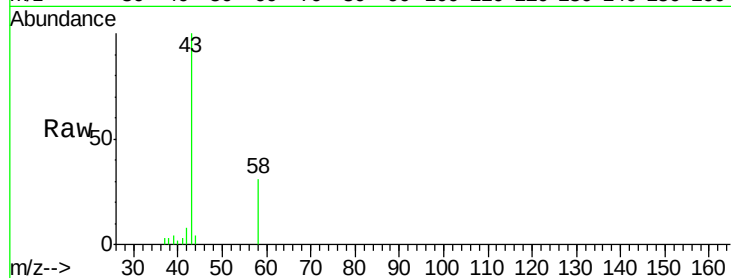
SU-02-013120

Tgt Ion: 43 Resp: 24578

Ion Ratio Lower Upper

43 100

58 30.5 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.79

10000

8000

6000

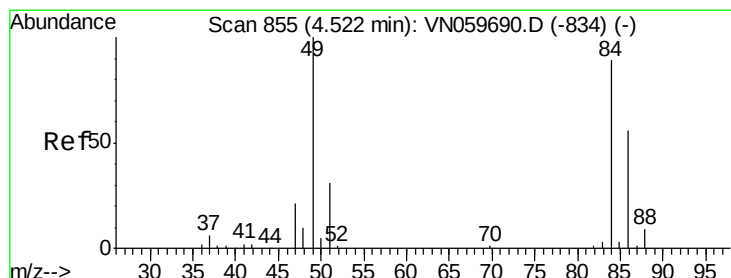
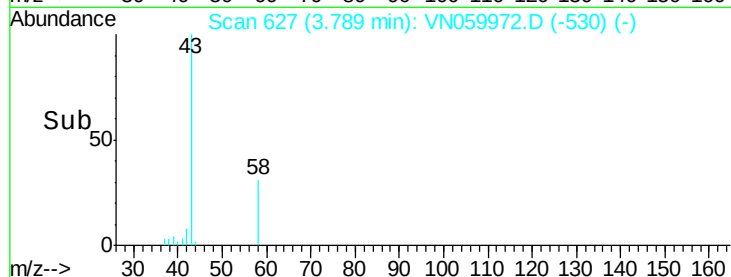
4000

2000

0

Time-->

3.70 3.75 3.80 3.85 3.90



#20

Methylene Chloride

Concen: 1.18 ug/l

RT: 4.52 min Scan# 855

Delta R.T. 0.00 min

Lab File: VN059972.D

Acq: 3 Feb 2020 14:17

Tgt Ion: 84 Resp: 4788

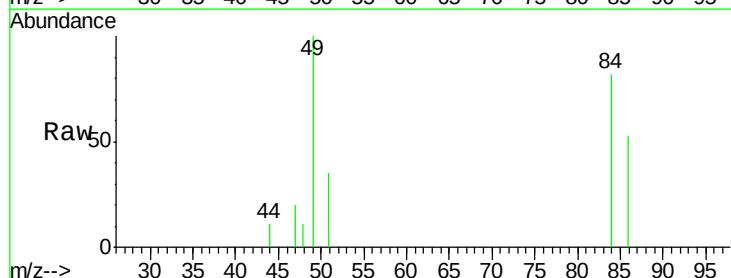
Ion Ratio Lower Upper

84 100

49 122.5 106.6 160.0

51 43.1 31.9 47.9

86 65.2 50.8 76.2



Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0

3000

2500

2000

1500

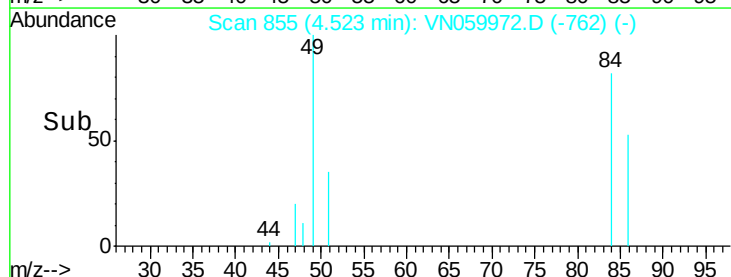
1000

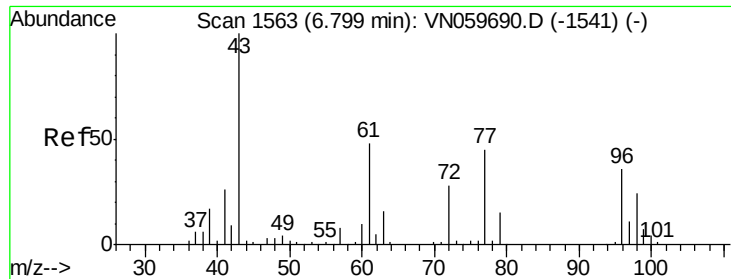
500

0

Time-->

4.45 4.50 4.55 4.60





#25

2-Butanone

Concen: 1.29 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. 0.02 min

Lab File: VN059972.D

Acq: 3 Feb 2020 14:17

Instrument :

MSVOA_N

ClientSampleId :

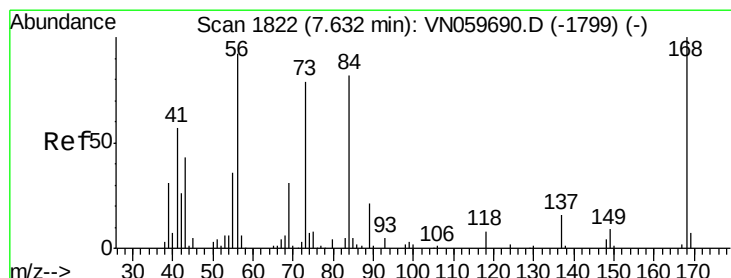
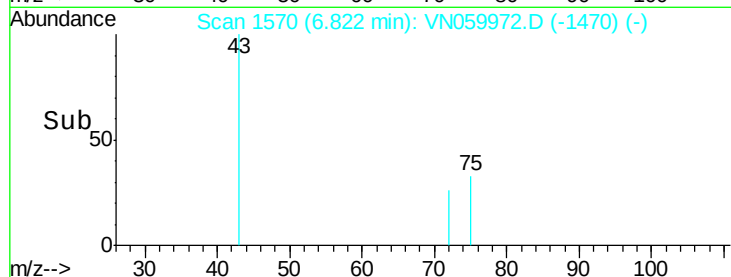
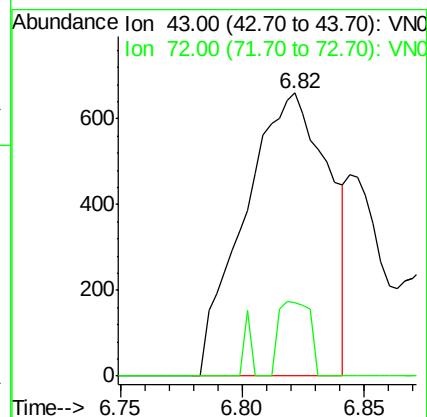
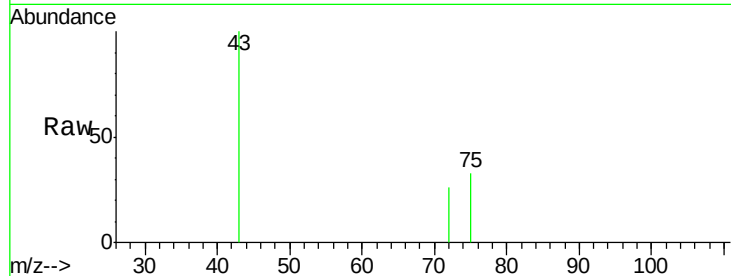
SU-02-013120

Tgt Ion: 43 Resp: 1588

Ion Ratio Lower Upper

43 100

72 25.8 19.9 29.9



#31

Cyclohexane

Concen: 1.14 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN059972.D

Acq: 3 Feb 2020 14:17

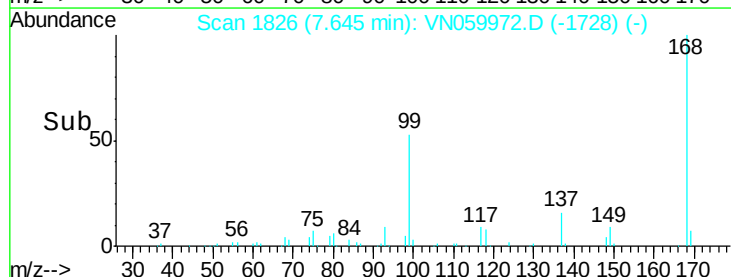
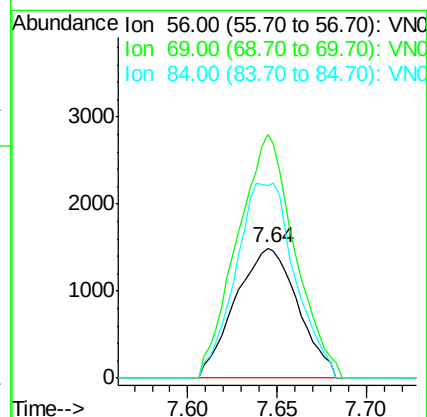
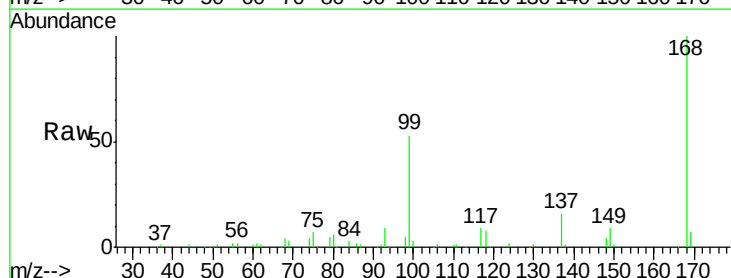
Tgt Ion: 56 Resp: 3648

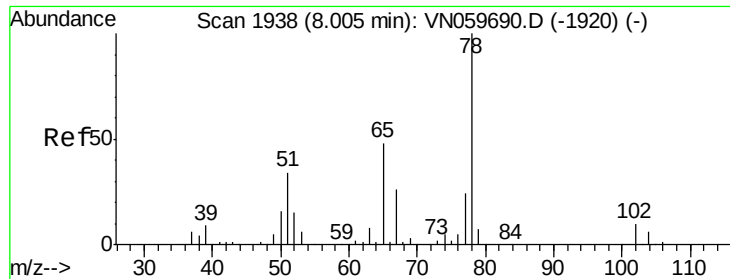
Ion Ratio Lower Upper

56 100

69 187.2 26.5 39.7#

84 147.4 65.3 97.9#

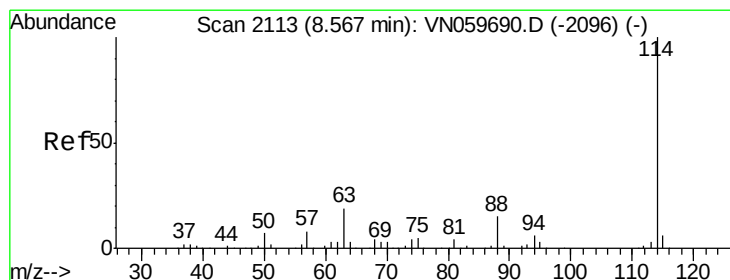
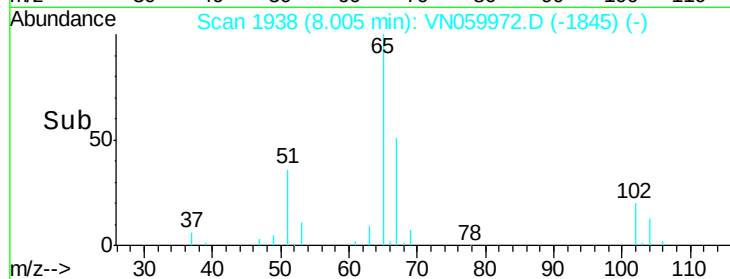
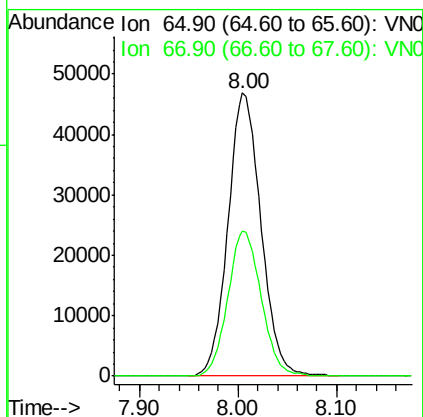
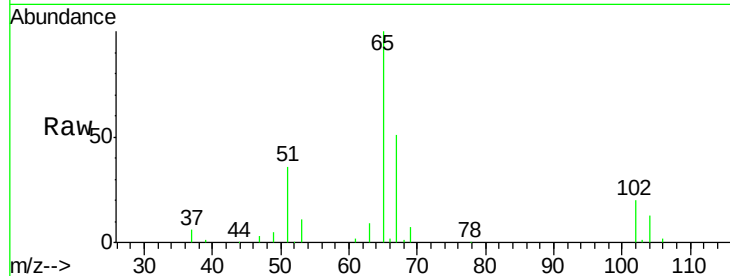




#33
 1,2-Dichloroethane-d4
 Concen: 50.44 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN059972.D
 Acq: 3 Feb 2020 14:17

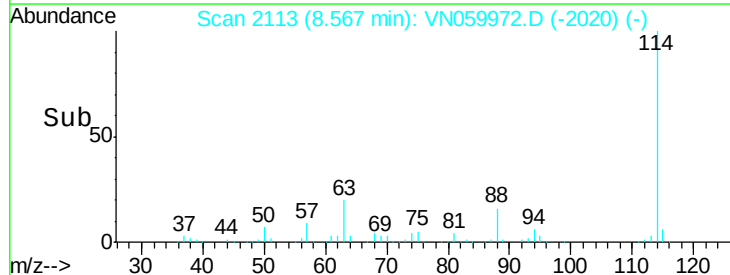
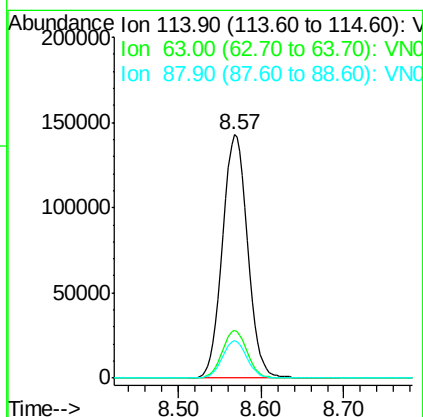
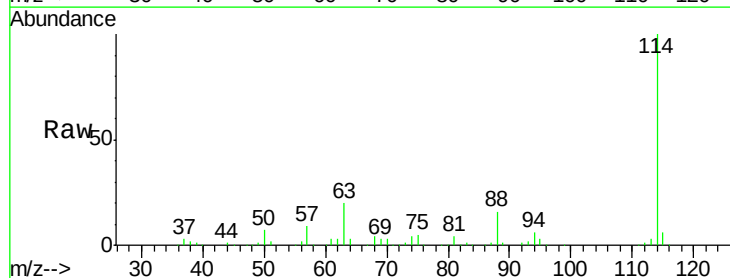
Instrument :
 MSVOA_N
 ClientSampled :
 SU-02-013120

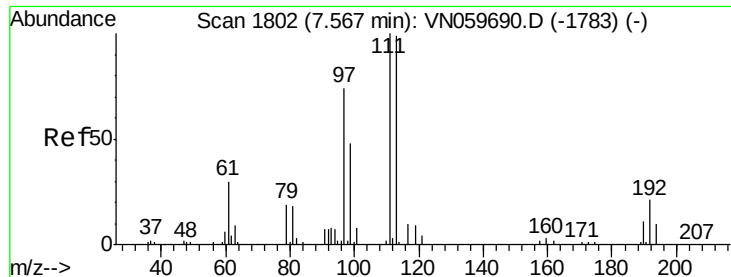
Tgt Ion: 65 Resp: 109404
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059972.D
 Acq: 3 Feb 2020 14:17

Tgt Ion: 114 Resp: 301408
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 43.6
 88 15.6 0.0 31.4

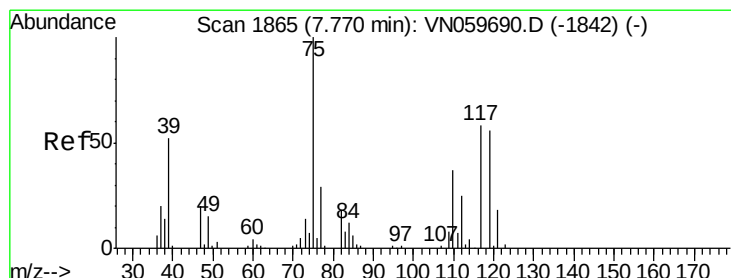
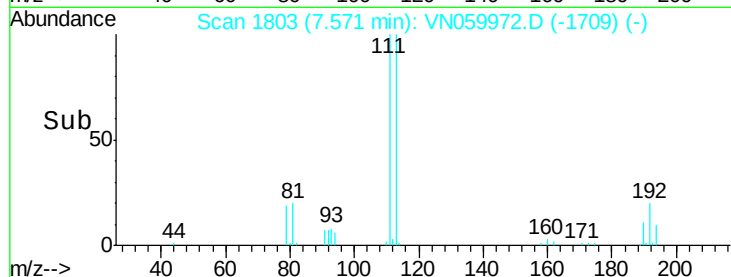
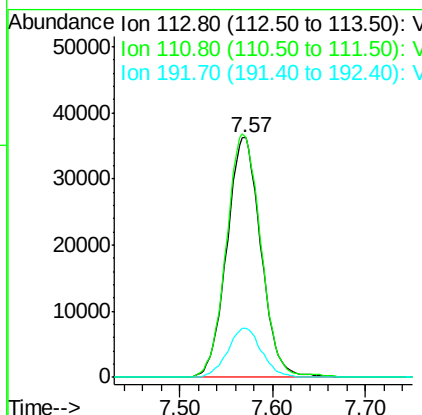
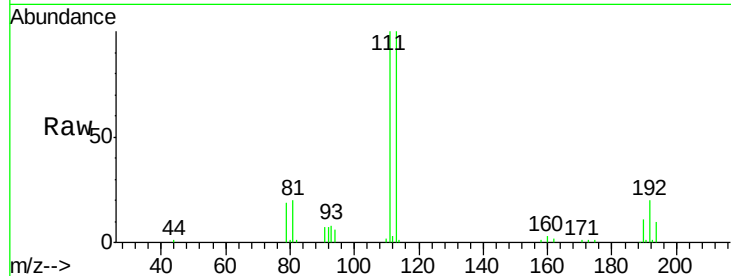




#35
 Dibromofluoromethane
 Concen: 51.42 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN059972.D
 Acq: 3 Feb 2020 14:17

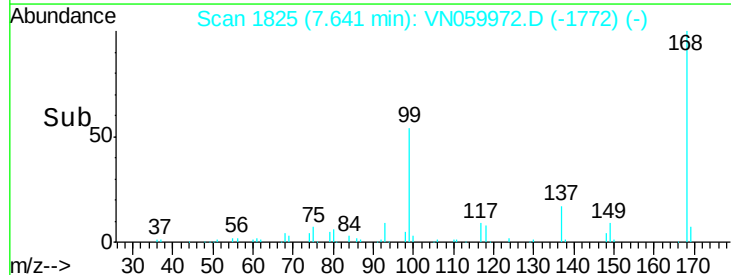
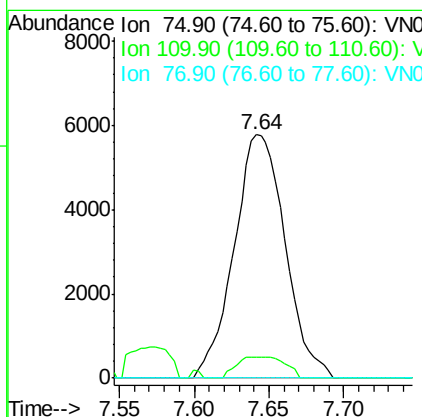
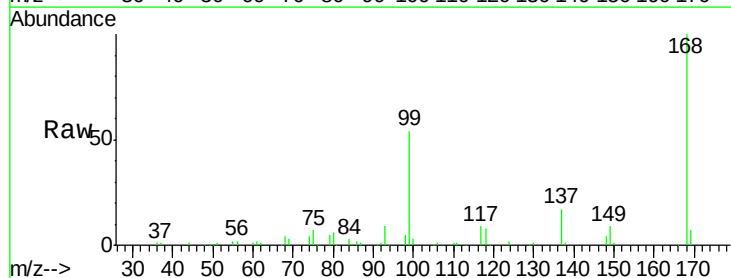
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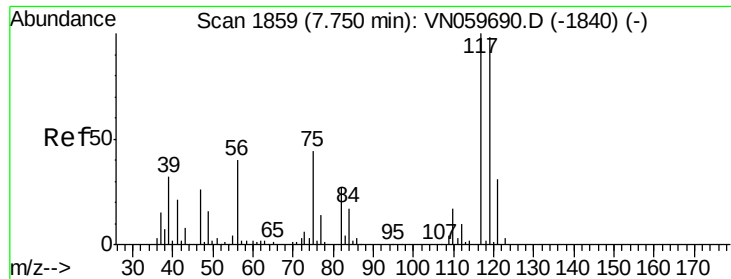
Tgt Ion: 113 Resp: 92420
 Ion Ratio Lower Upper
 113 100
 111 102.7 83.5 125.3
 192 20.3 15.4 23.2



#36
 1,1-Dichloropropene
 Concen: 5.23 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059972.D
 Acq: 3 Feb 2020 14:17

Tgt Ion: 75 Resp: 13725
 Ion Ratio Lower Upper
 75 100
 110 4.4 16.6 49.7#
 77 0.0 25.1 37.7#

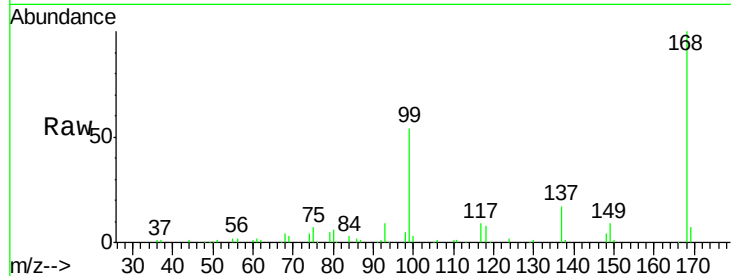




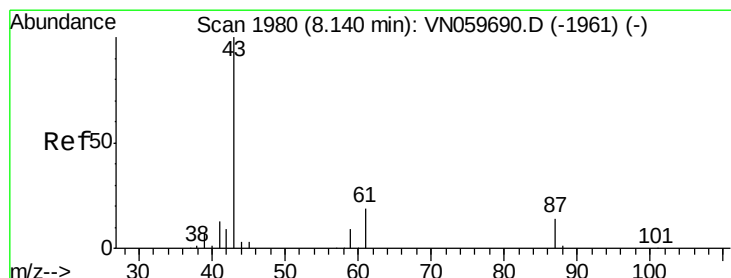
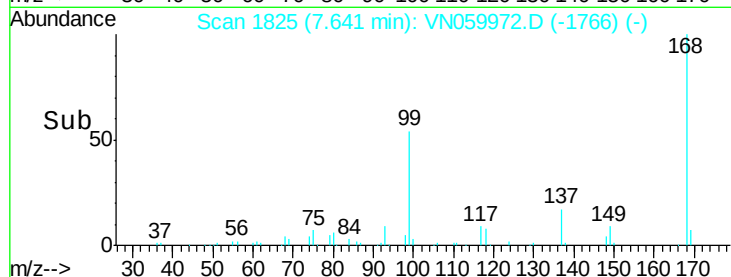
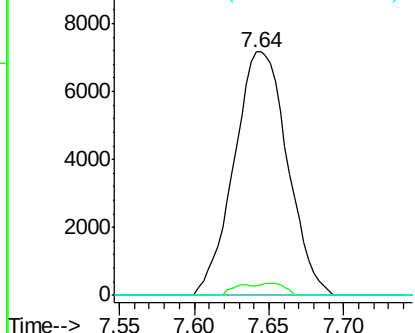
#38
Carbon Tetrachloride
Concen: 6.23 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN059972.D
Acq: 3 Feb 2020 14:17

Instrument :
MSVOA_N
ClientSampleId :
SU-02-013120

Tgt Ion:117 Resp: 17787
Ion Ratio Lower Upper
117 100
119 4.0 76.5 114.7#
121 0.0 25.1 37.7#

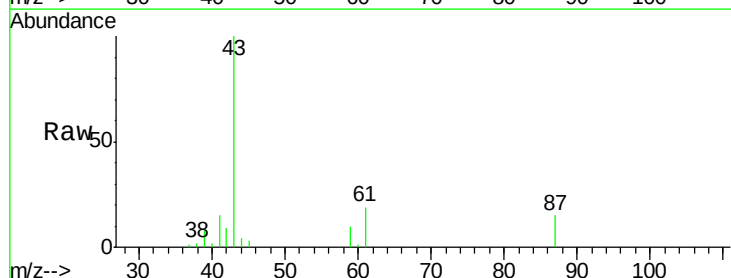


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

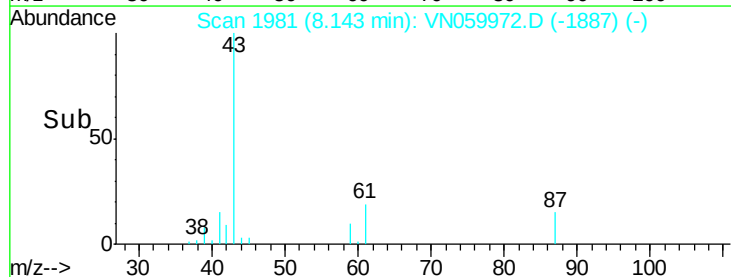
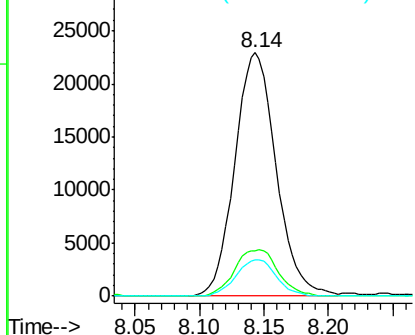


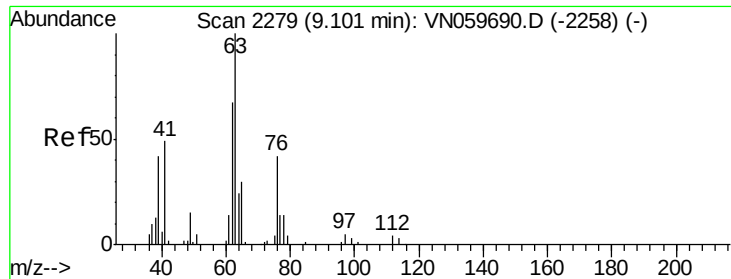
#43
Isopropyl Acetate
Concen: 12.11 ug/l
RT: 8.14 min Scan# 1981
Delta R.T. 0.00 min
Lab File: VN059972.D
Acq: 3 Feb 2020 14:17

Tgt Ion: 43 Resp: 51262
Ion Ratio Lower Upper
43 100
61 20.1 20.2 30.2#
87 14.6 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V

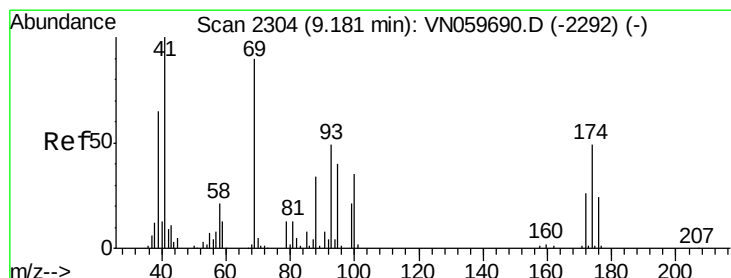
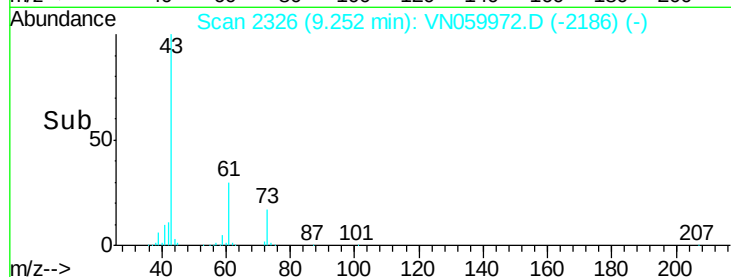
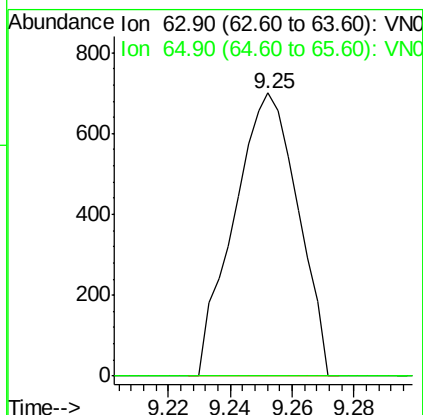
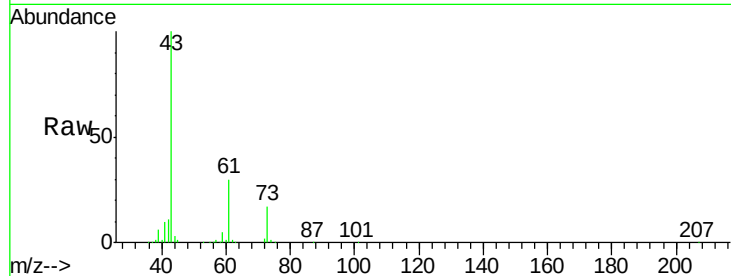




#45
 1,2-Dichloropropane
 Concen: 0.52 ug/l
 RT: 9.25 min Scan# 2326
 Delta R.T. 0.15 min
 Lab File: VN059972.D
 Acq: 3 Feb 2020 14:17

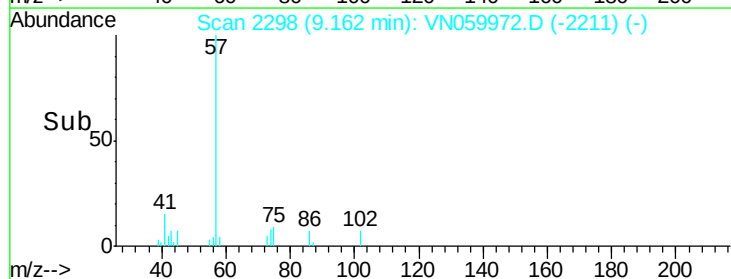
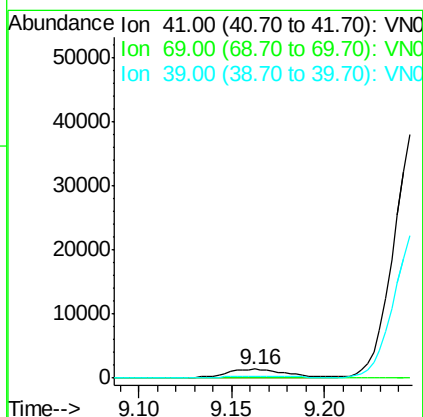
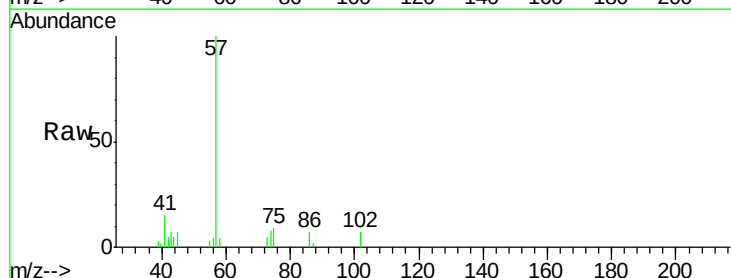
Instrument :
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 ClientSampleId :
 SU-02-013120

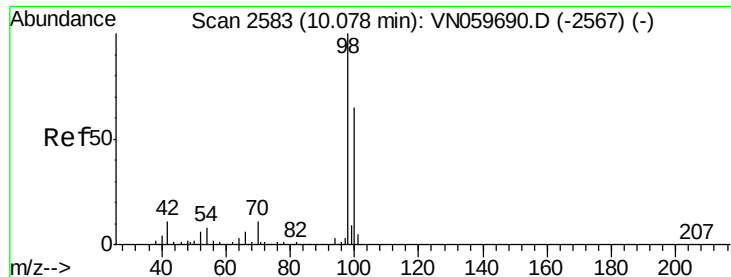
Tgt Ion: 63 Resp: 1005
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.9 37.3#



#48
 Methyl methacrylate
 Concen: 1.68 ug/l
 RT: 9.16 min Scan# 2298
 Delta R.T. -0.02 min
 Lab File: VN059972.D
 Acq: 3 Feb 2020 14:17

Tgt Ion: 41 Resp: 3173
 Ion Ratio Lower Upper
 41 100
 69 0.0 64.4 96.6#
 39 0.0 51.3 76.9#





#50

Toluene-d8

Concen: 52.30 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN059972.D

Acq: 3 Feb 2020 14:17

Instrument :

MSVOA_N

ClientSampleId :

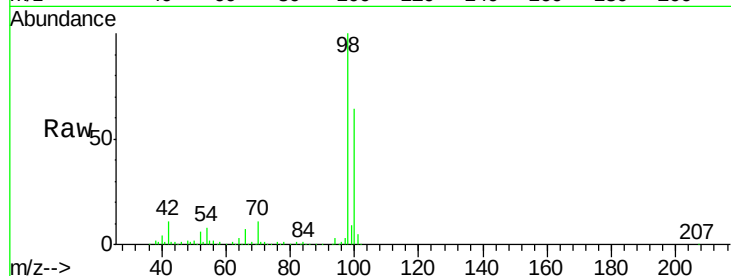
SU-02-013120

Tgt Ion: 98 Resp: 364218

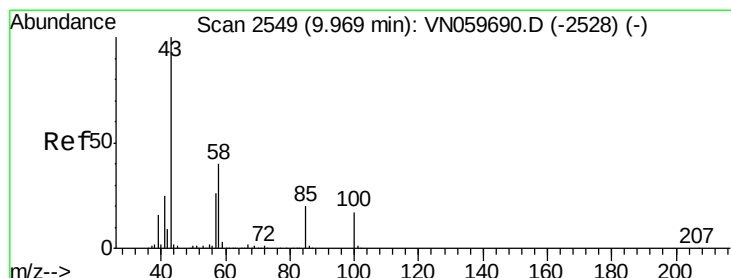
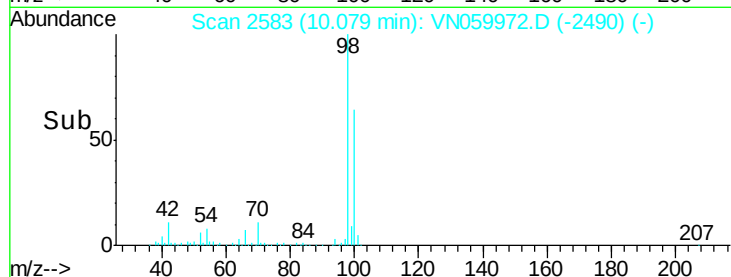
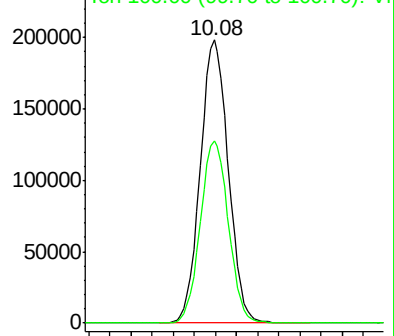
Ion Ratio Lower Upper

98 100

100 64.5 51.2 76.8



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



#51

4-Methyl-2-Pentanone

Concen: 1.46 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN059972.D

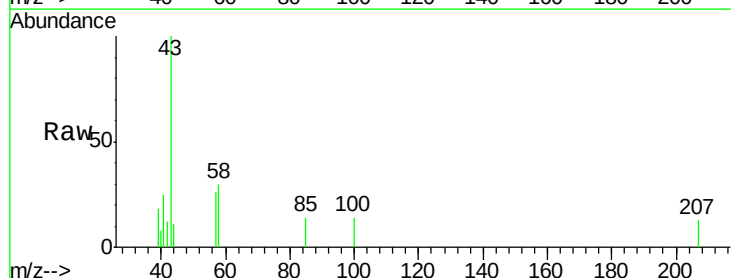
Acq: 3 Feb 2020 14:17

Tgt Ion: 43 Resp: 3573

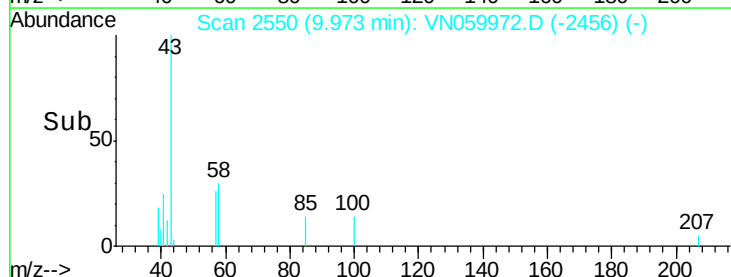
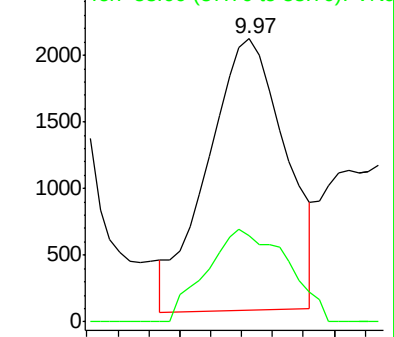
Ion Ratio Lower Upper

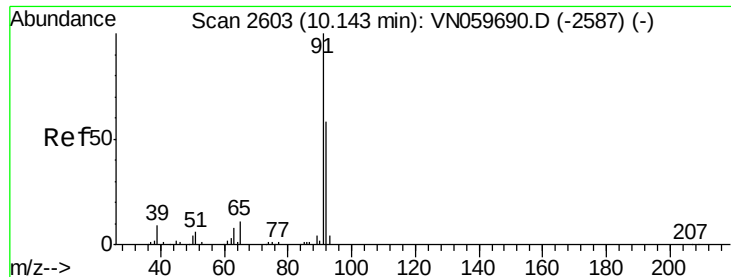
43 100

58 35.3 29.8 44.8



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





#52

Toluene

Concen: 0.28 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059972.D

Acq: 3 Feb 2020 14:17

Instrument :

MSVOA_N

ClientSampled :

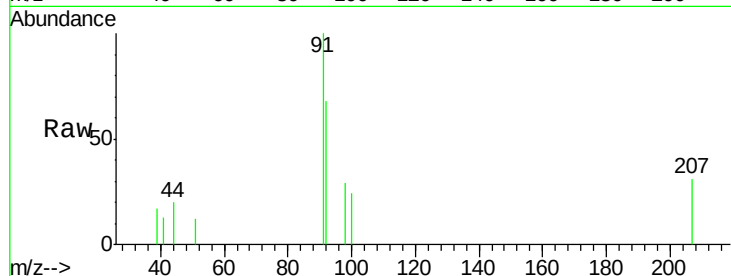
SU-02-013120

Tgt Ion: 92 Resp: 1372

Ion Ratio Lower Upper

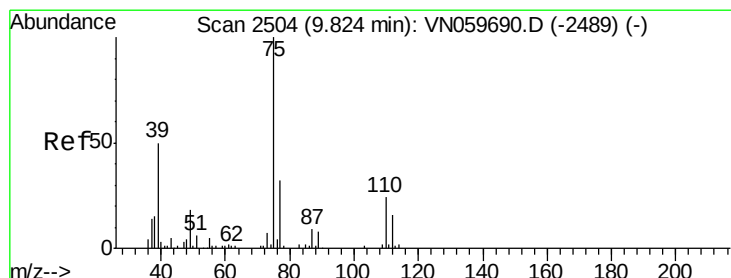
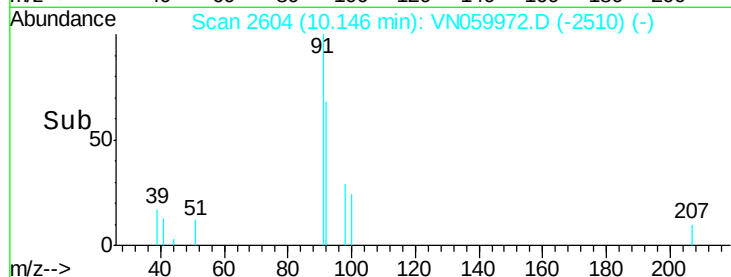
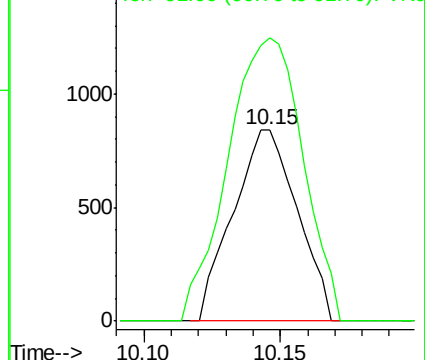
92 100

91 173.3 140.4 210.6



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 7.10 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN059972.D

Acq: 3 Feb 2020 14:17

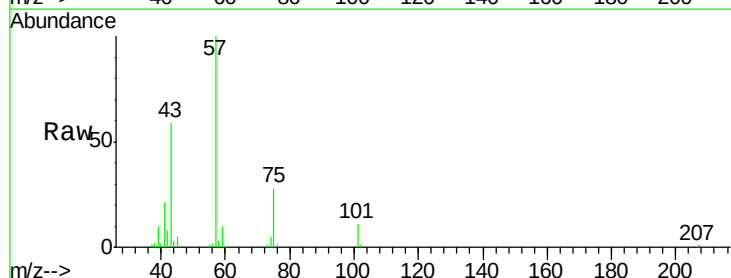
Tgt Ion: 75 Resp: 22973

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

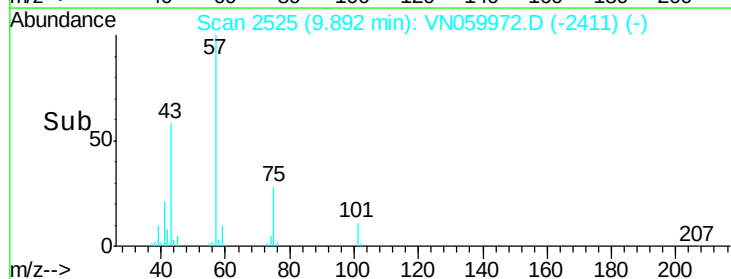
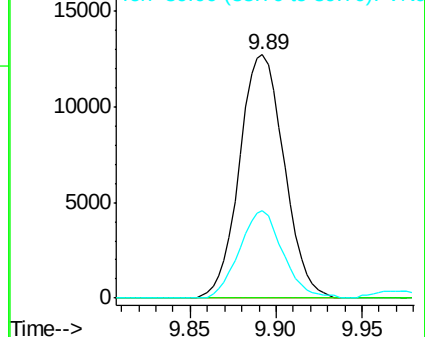
39 35.9 46.1 69.1#

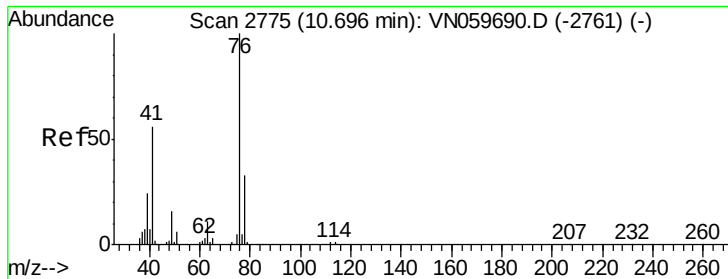


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

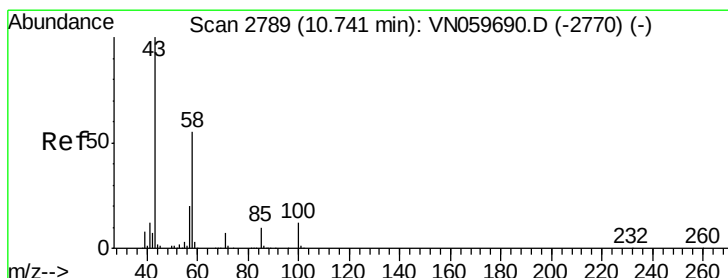
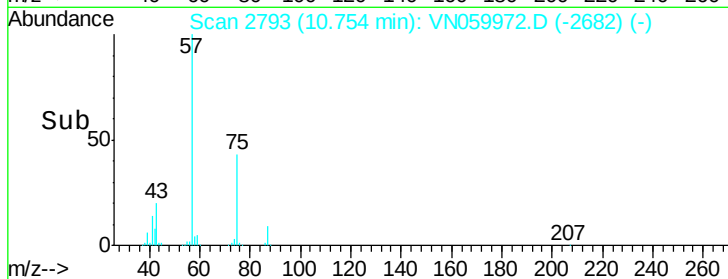
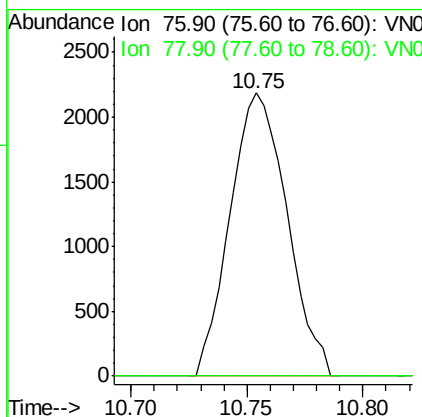
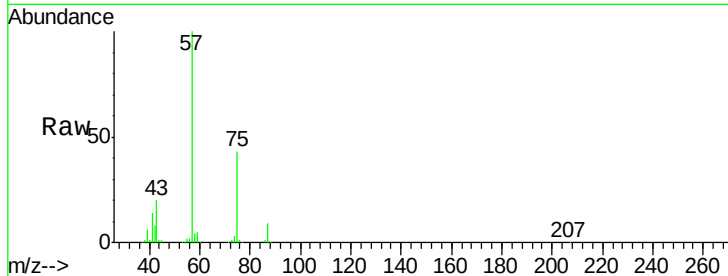




#57
 1,3-Dichloropropane
 Concen: 1.20 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN059972.D
 Acq: 3 Feb 2020 14:17

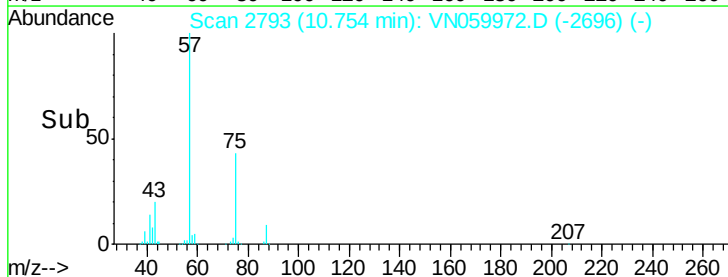
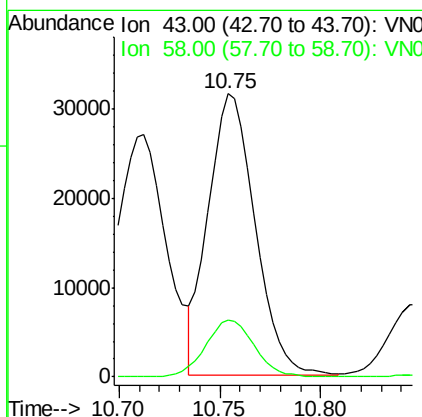
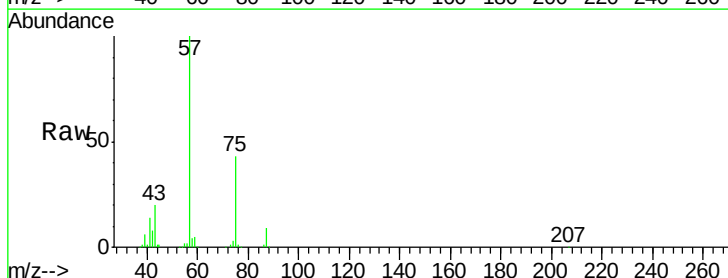
Instrument :
 MSVOA_N
 ClientSampleId :
 SU-02-013120

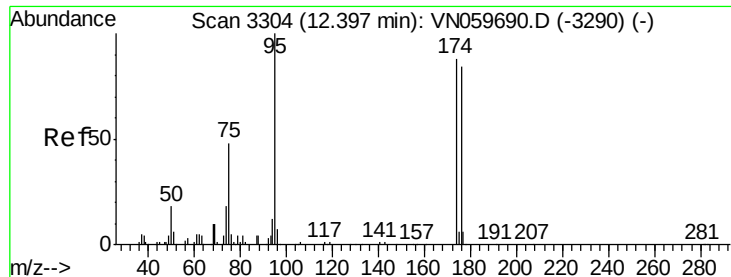
Tgt Ion: 76 Resp: 3725
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 28.21 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN059972.D
 Acq: 3 Feb 2020 14:17

Tgt Ion: 43 Resp: 50874
 Ion Ratio Lower Upper
 43 100
 58 20.9 25.8 77.3#





#62

4-Bromofluorobenzene

Concen: 51.62 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN059972.D

Acq: 3 Feb 2020 14:17

Instrument :

MSVOA_N

ClientSampled :

SU-02-013120

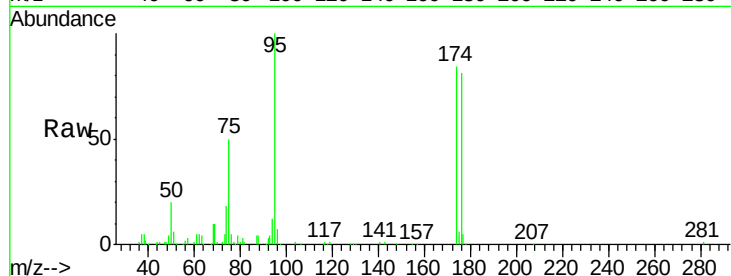
Tgt Ion: 95 Resp: 129599

Ion Ratio Lower Upper

95 100

174 86.9 0.0 151.4

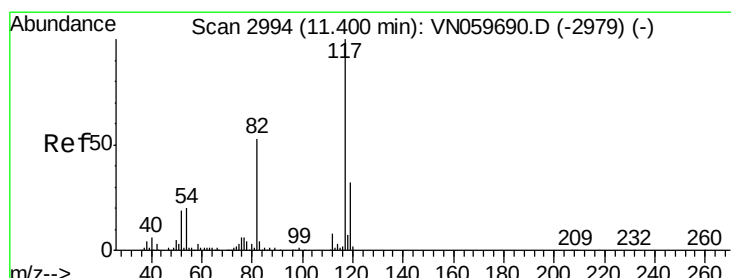
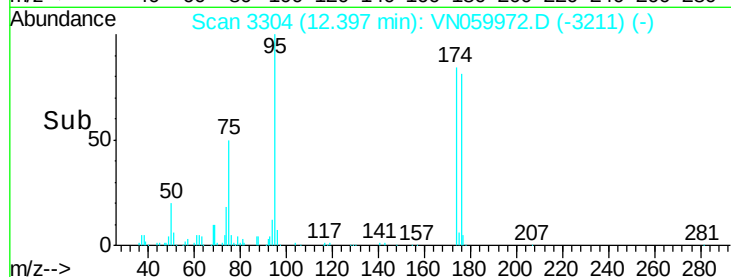
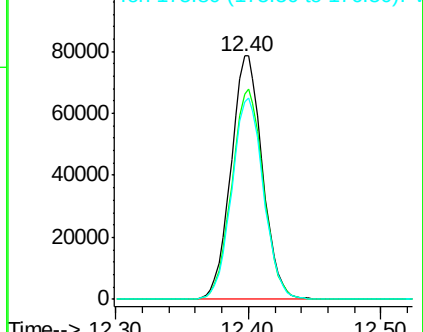
176 83.4 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN059972.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN059972.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN059972.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN059972.D

Acq: 3 Feb 2020 14:17

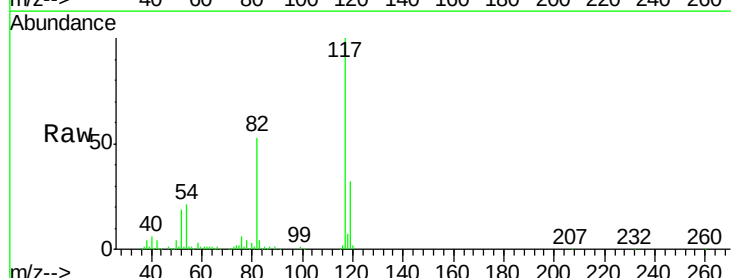
Tgt Ion: 117 Resp: 282278

Ion Ratio Lower Upper

117 100

82 52.8 45.9 68.9

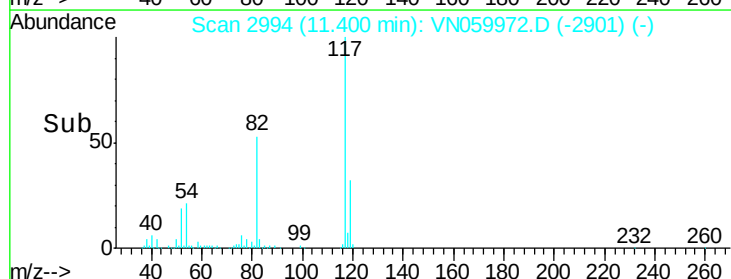
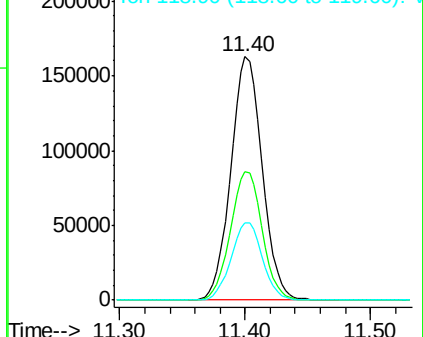
119 31.8 25.5 38.3

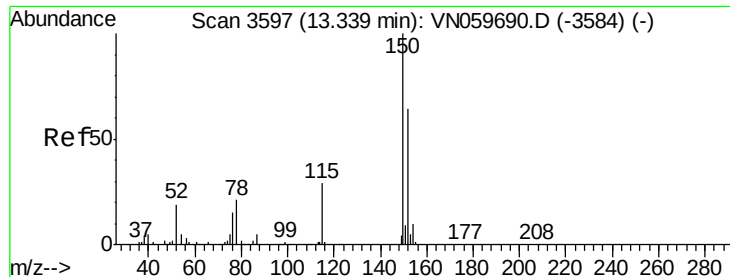


Abundance Ion 116.90 (116.60 to 117.60): VN059972.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN059972.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN059972.D (-2901) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN059972.D

Acq: 3 Feb 2020 14:17

Instrument :

MSVOA_N

ClientSampleId :

SU-02-013120

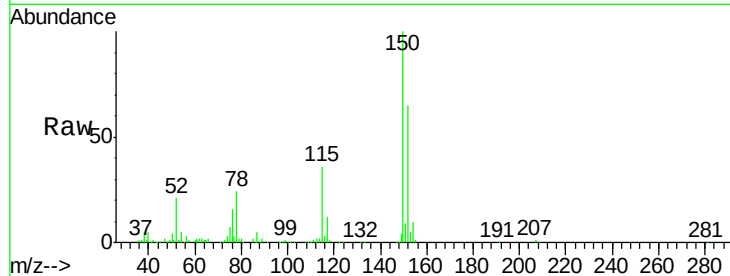
Tgt Ion:152 Resp: 127881

Ion Ratio Lower Upper

152 100

115 57.4 30.3 90.9

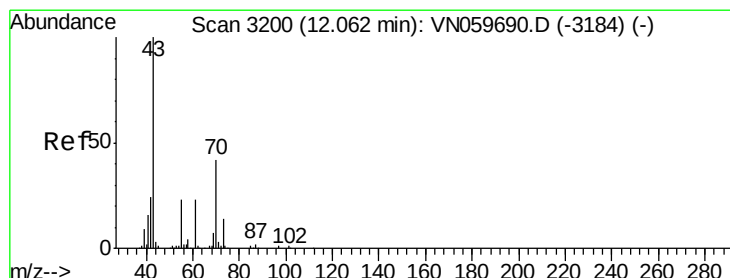
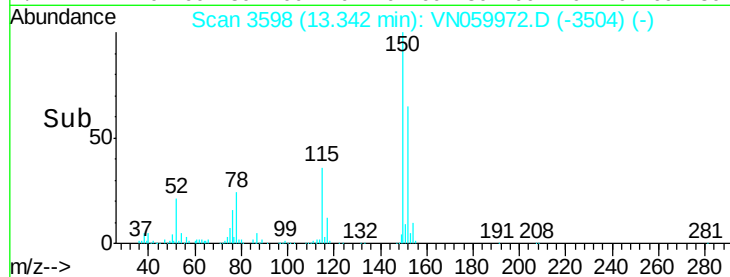
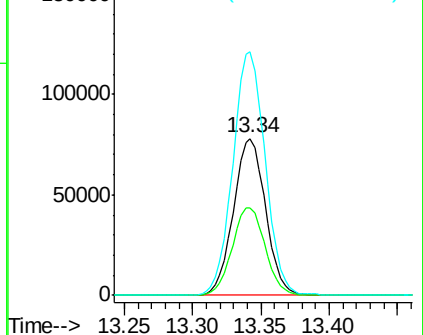
150 156.4 0.0 345.2



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: 0.77 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN059972.D

Acq: 3 Feb 2020 14:17

Tgt Ion: 43 Resp: 2802

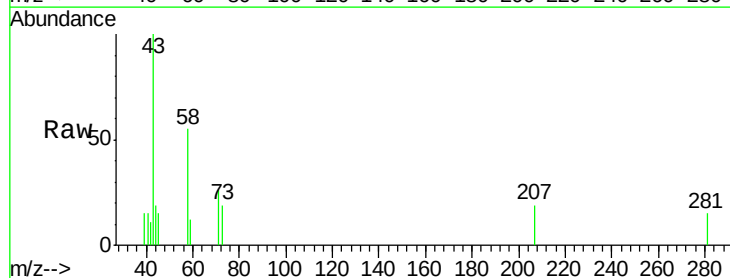
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

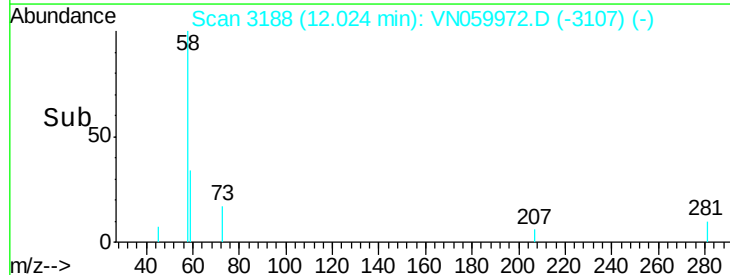
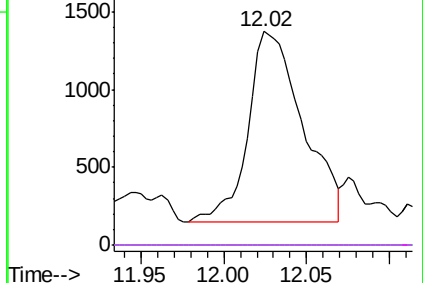


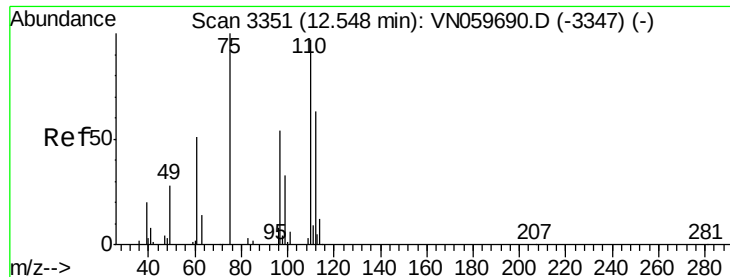
Abundance Ion 43.00 (42.70 to 43.70): V

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





#76

1,2,3-Trichloropropane

Concen: 30.90 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059972.D

Acq: 3 Feb 2020 14:17

Instrument :

MSVOA_N

ClientSampleId :

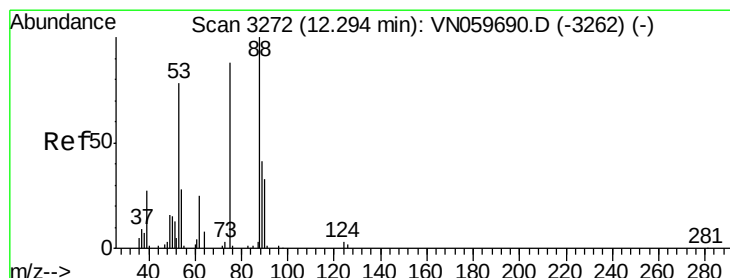
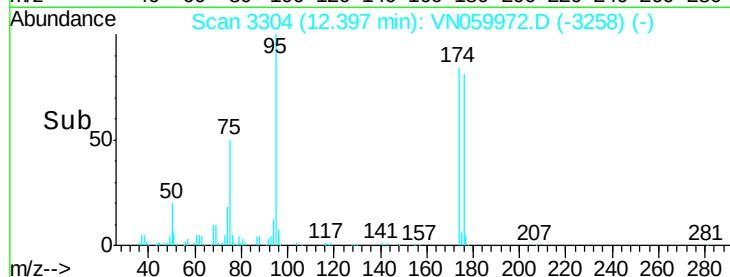
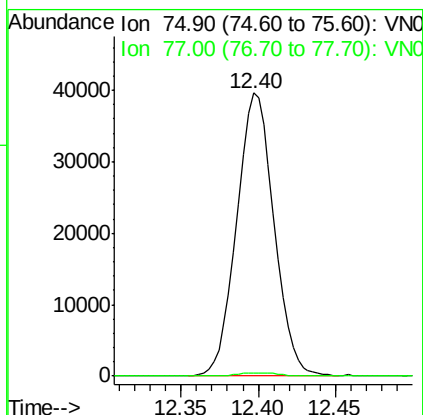
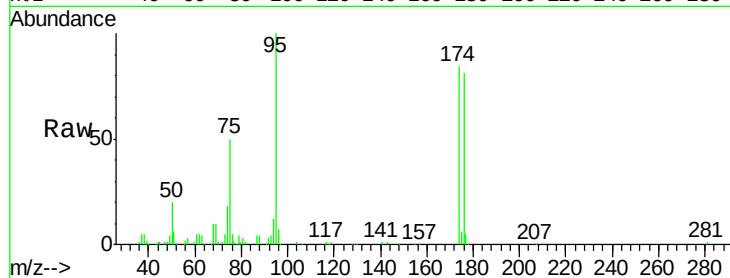
SU-02-013120

Tgt Ion: 75 Resp: 66505

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.36 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059972.D

Acq: 3 Feb 2020 14:17

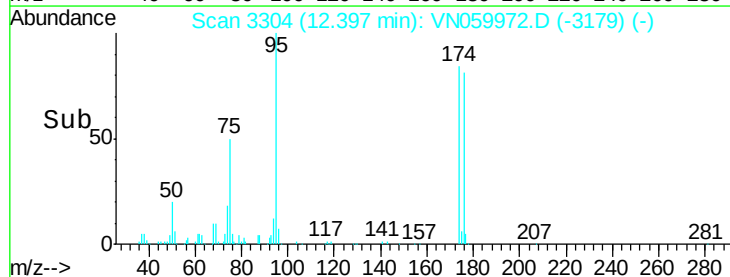
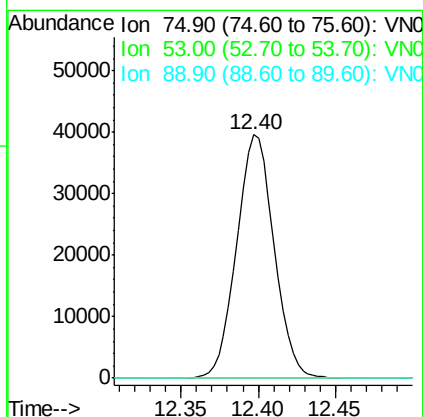
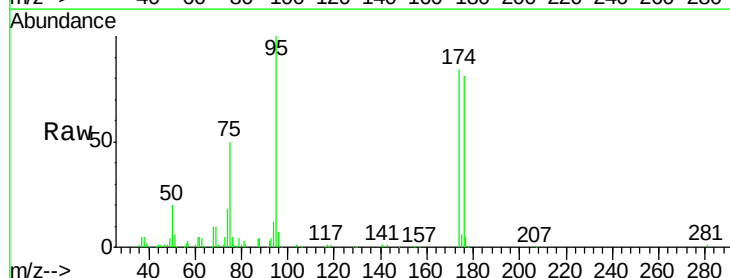
Tgt Ion: 75 Resp: 66505

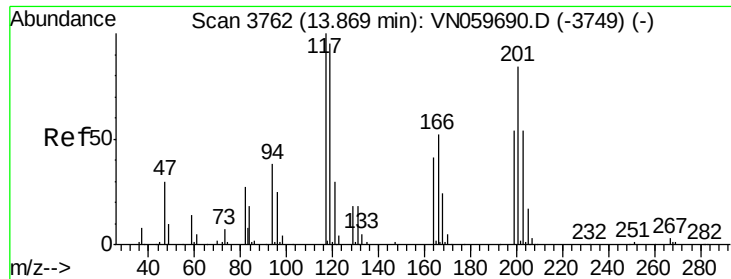
Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

89 0.0 35.4 53.2#





#90

Hexachloroethane

Concen: 0.31 ug/l

RT: 13.99 min Scan# 3801

Delta R.T. 0.13 min

Lab File: VN059972.D

Acq: 3 Feb 2020 14:17

Instrument :

MSVOA_N

ClientSampleId :

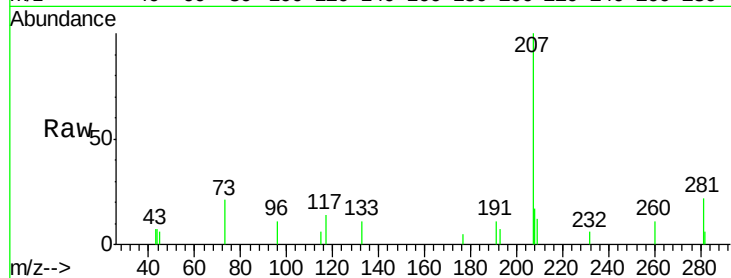
SU-02-013120

Tgt Ion: 117 Resp: 477

Ion Ratio Lower Upper

117 100

201 0.0 37.8 113.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.99

400

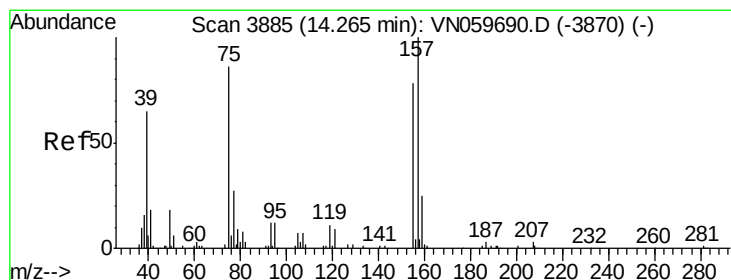
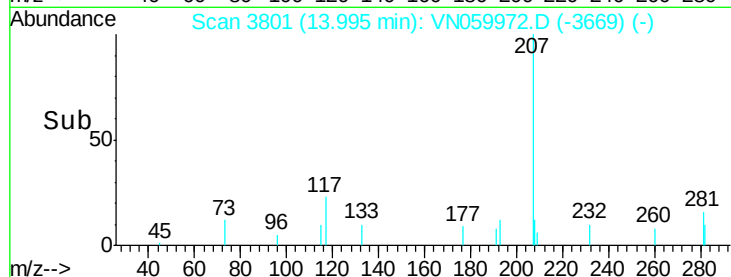
300

200

100

0

Time--> 13.96 13.98 14.00 14.02



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.28 min Scan# 3890

Delta R.T. 0.02 min

Lab File: VN059972.D

Acq: 3 Feb 2020 14:17

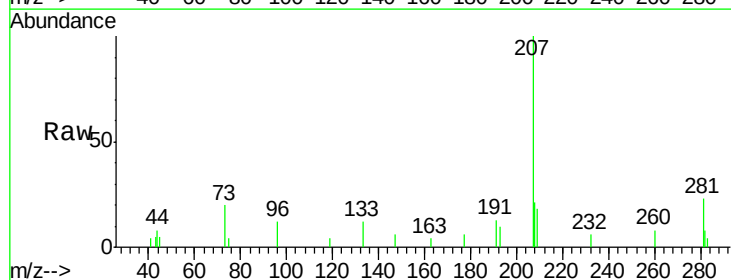
Tgt Ion: 75 Resp: 64

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): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

14.28

200

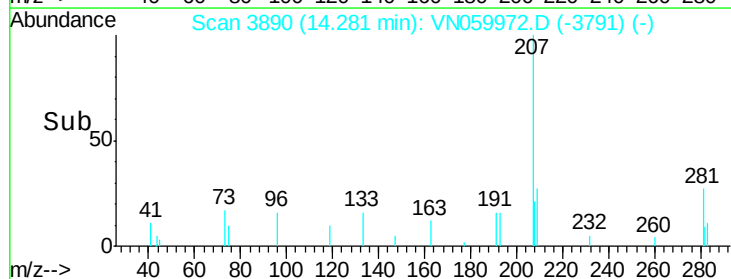
150

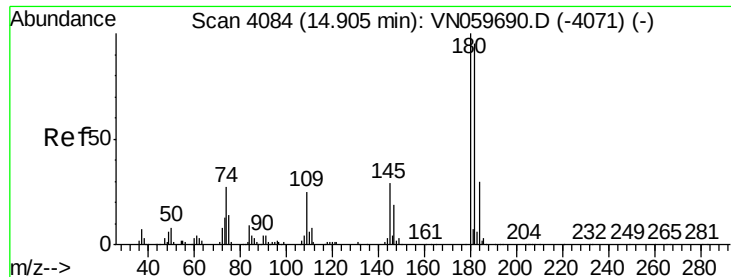
100

50

0

Time--> 14.27 14.28 14.29





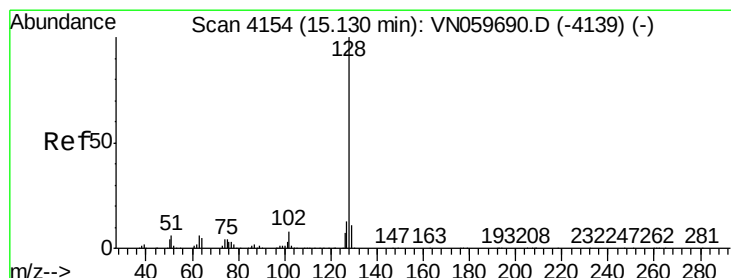
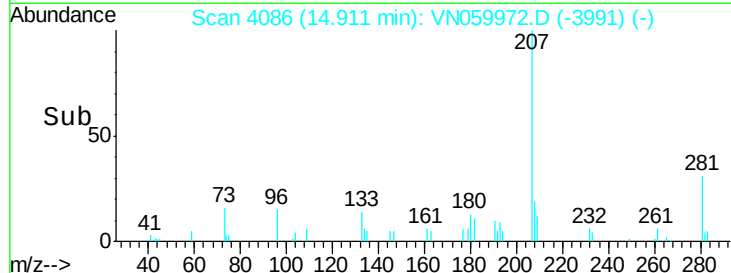
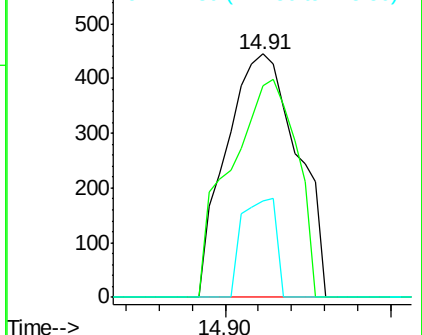
#93
 1,2,4-Trichlorobenzene
 Concen: 0.27 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.01 min
 Lab File: VN059972.D
 Acq: 3 Feb 2020 14:17

Instrument :
 MSVOA_N
 ClientSampleId :
 SU-02-013120

Tgt Ion:180 Resp: 664
 Ion Ratio Lower Upper
 180 100
 182 83.4 46.9 140.7
 145 19.7 15.0 45.1

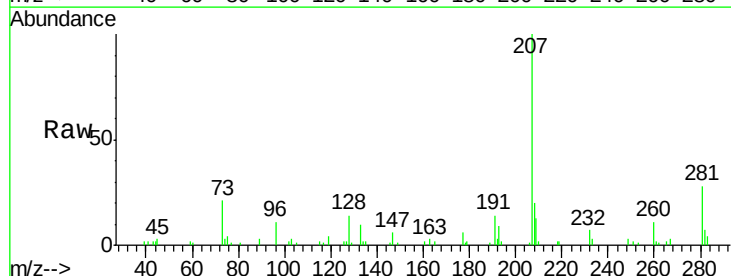


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

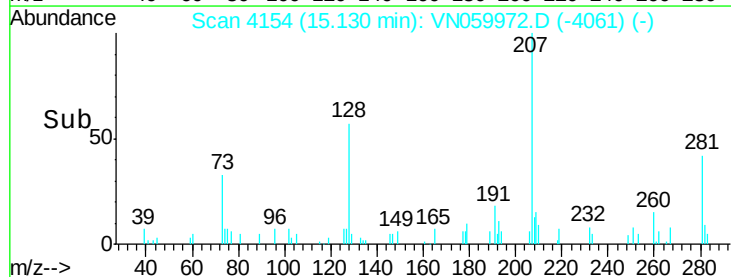
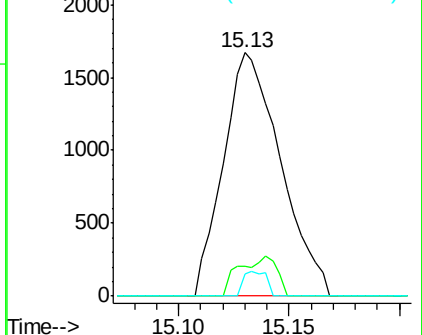


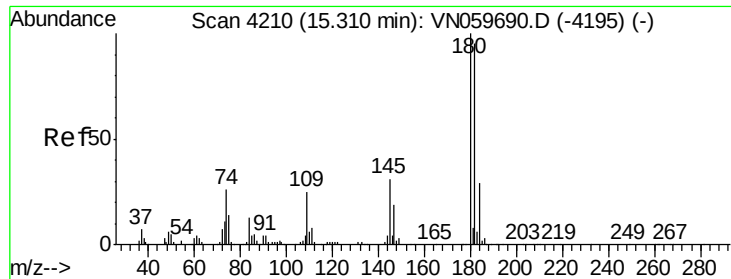
#95
 Naphthalene
 Concen: 0.43 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. 0.00 min
 Lab File: VN059972.D
 Acq: 3 Feb 2020 14:17

Tgt Ion:128 Resp: 3009
 Ion Ratio Lower Upper
 128 100
 127 10.7 10.4 15.6
 129 4.1 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: 0.34 ug/l

RT: 15.32 min Scan# 4213

Delta R.T. 0.01 min

Lab File: VN059972.D

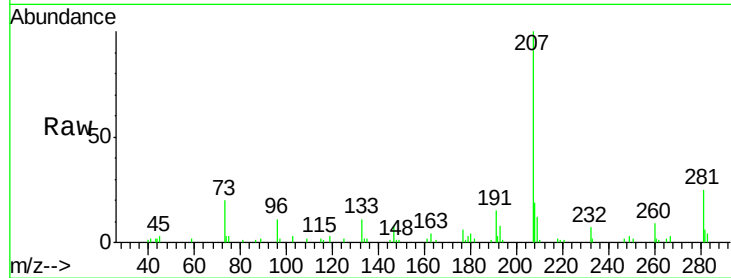
Acq: 3 Feb 2020 14:17

Instrument :

MSVOA_N

ClientSampleId :

SU-02-013120



Tgt Ion:	180	Resp:	817
Ion	Ratio	Lower	Upper
180	100		
182	73.3	47.4	142.3
145	26.8	16.3	48.9

