

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN012220\
 Data File : VN059826.D
 Acq On : 22 Jan 2020 12:55
 Operator : JC/MD
 Sample : L1205-02
 Misc : 8.61g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EP-6

Quant Time: Jan 22 17:32:08 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	208735	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	312601	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	264492	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	115272	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	110248	47.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.12%	
35) Dibromofluoromethane	7.56	113	93625	50.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.44%	
50) Toluene-d8	10.08	98	361282	50.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.04%	
62) 4-Bromofluorobenzene	12.40	95	115923	44.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.04%	

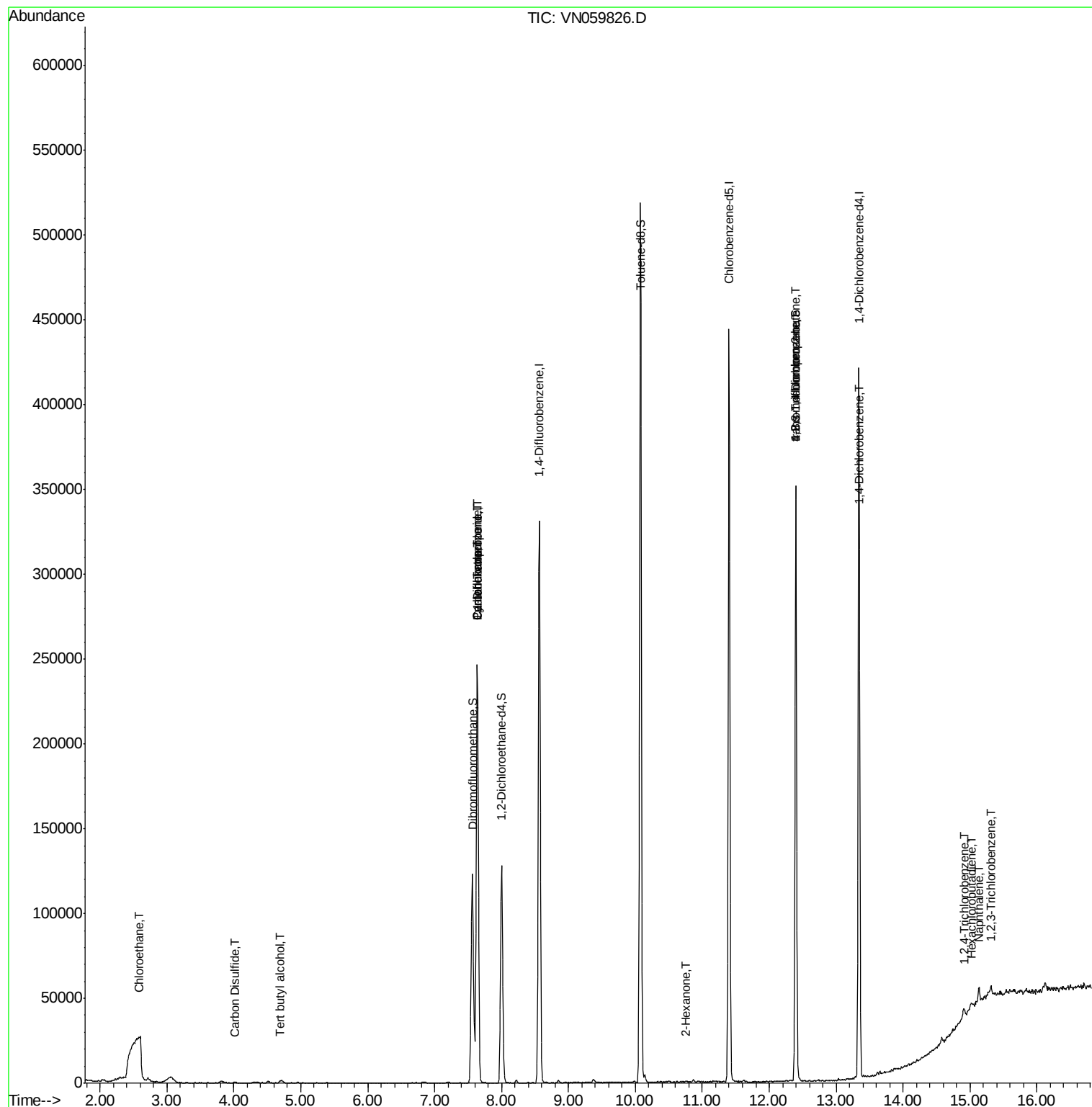
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	2.58	64	311	0.24	ug/l #	43
11) Tert butyl alcohol	4.69	59	336	0.86	ug/l #	72
16) Acetone	3.80	43	2187	Below Cal		93
17) Carbon Disulfide	4.01	76	1209	0.22	ug/l #	75
20) Methylene Chloride	4.51	84	518	Below Cal	#	69
31) Cyclohexane	7.64	56	3959	1.15	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	14613	5.37	ug/l #	50
38) Carbon Tetrachloride	7.64	117	19263	6.51	ug/l #	16
59) 2-Hexanone	10.75	43	594	0.32	ug/l #	26
76) 1,2,3-Trichloropropane	12.40	75	59430	30.64	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	59430	65.79	ug/l #	11
88) 1,4-Dichlorobenzene	13.36	146	782	0.21	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	14.27	75	224	Below Cal	#	6
93) 1,2,4-Trichlorobenzene	14.91	180	1905	0.86	ug/l	96
94) Hexachlorobutadiene	15.01	225	305	0.25	ug/l #	77
95) Naphthalene	15.13	128	6812	1.08	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.31	180	2557	1.19	ug/l	95

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.00 min

Lab File: VN059826.D

Acq: 22 Jan 2020 12:55

Instrument :

MSVOA_N

ClientSampled :

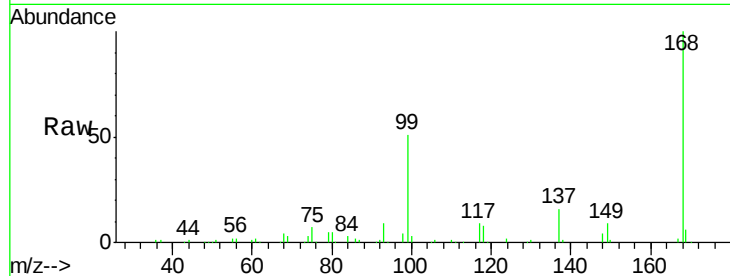
EP-6

Tgt Ion:168 Resp: 208735

Ion Ratio Lower Upper

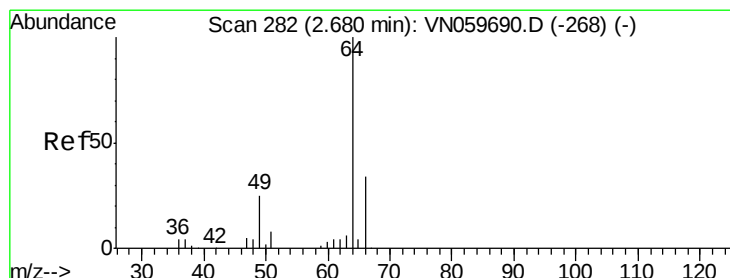
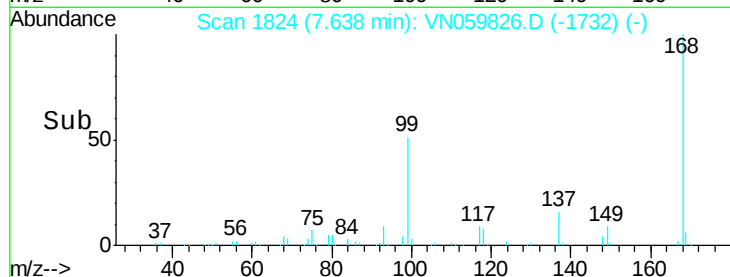
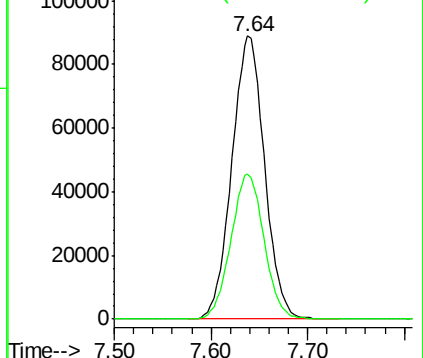
168 100

99 51.4 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#6

Chloroethane

Concen: 0.24 ug/l

RT: 2.58 min Scan# 250

Delta R.T. -0.10 min

Lab File: VN059826.D

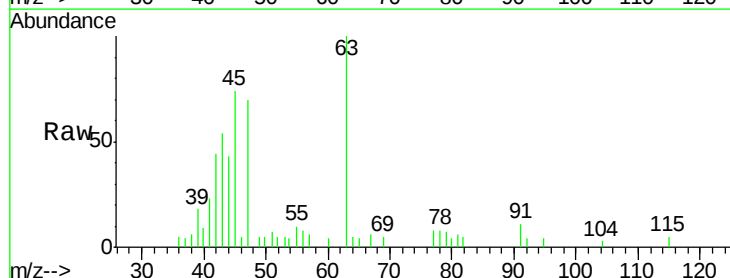
Acq: 22 Jan 2020 12:55

Tgt Ion: 64 Resp: 311

Ion Ratio Lower Upper

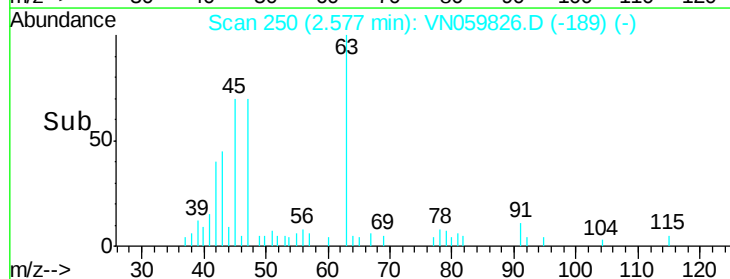
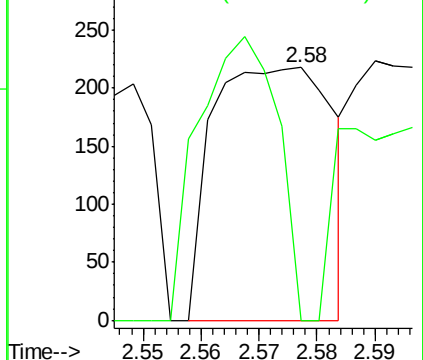
64 100

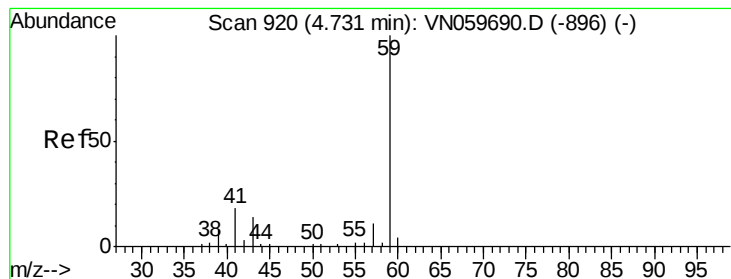
66 0.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VN

Ion 65.90 (65.60 to 66.60): VN





#11

Tert butyl alcohol

Concen: 0.86 ug/l

RT: 4.69 min Scan# 908

Delta R.T. -0.04 min

Lab File: VN059826.D

Acq: 22 Jan 2020 12:55

Instrument :

MSVOA_N

ClientSampled :

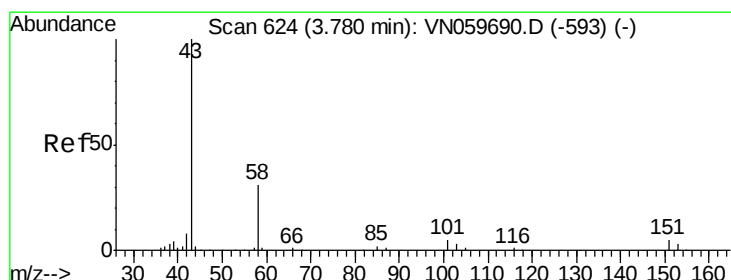
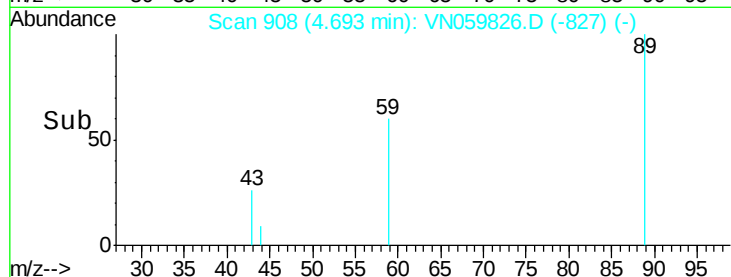
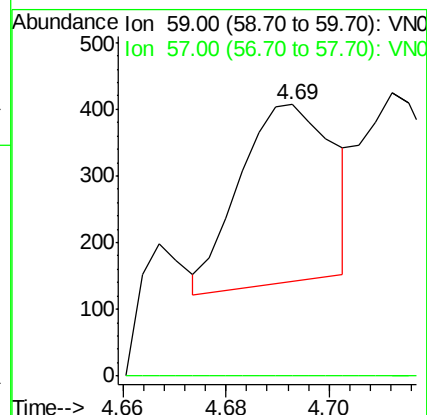
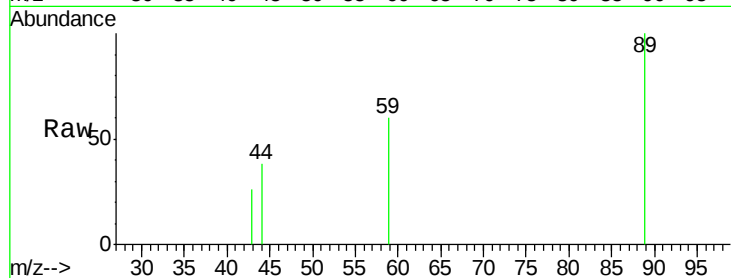
EP-6

Tgt Ion: 59 Resp: 336

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



#16

Acetone

Concen: Below Cal

RT: 3.80 min Scan# 631

Delta R.T. 0.02 min

Lab File: VN059826.D

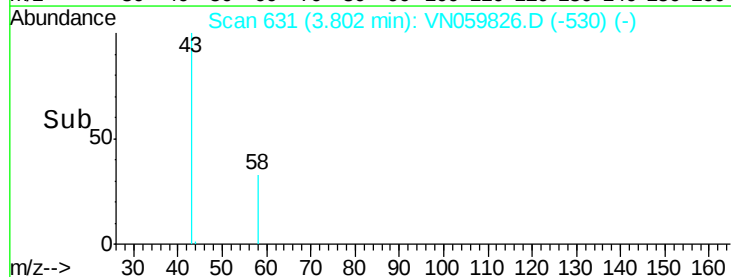
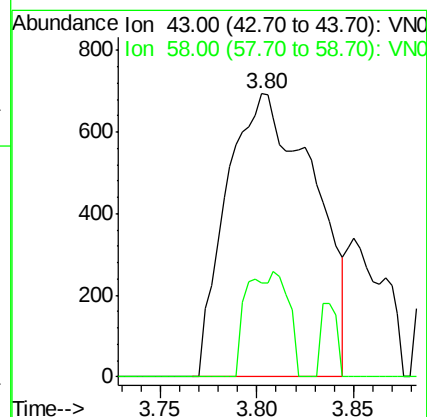
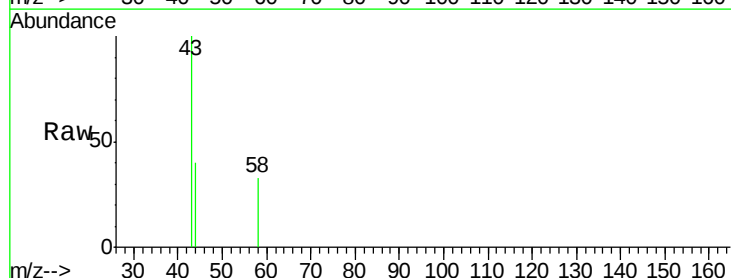
Acq: 22 Jan 2020 12:55

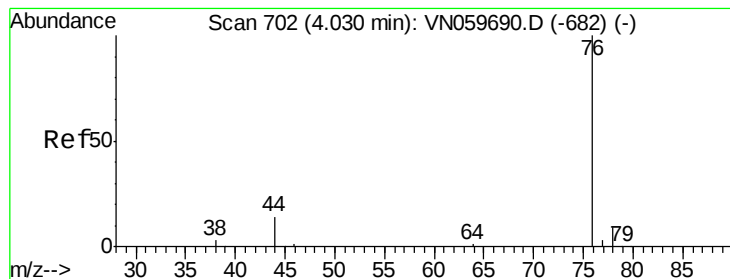
Tgt Ion: 43 Resp: 2187

Ion Ratio Lower Upper

43 100

58 33.0 23.6 35.4





#17

Carbon Disulfide

Concen: 0.22 ug/l

RT: 4.01 min Scan# 697

Delta R.T. -0.02 min

Lab File: VN059826.D

Acq: 22 Jan 2020 12:55

Instrument :

MSVOA_N

ClientSampleId :

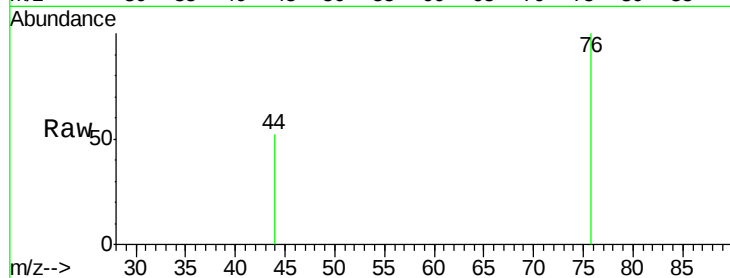
EP-6

Tgt Ion: 76 Resp: 1209

Ion Ratio Lower Upper

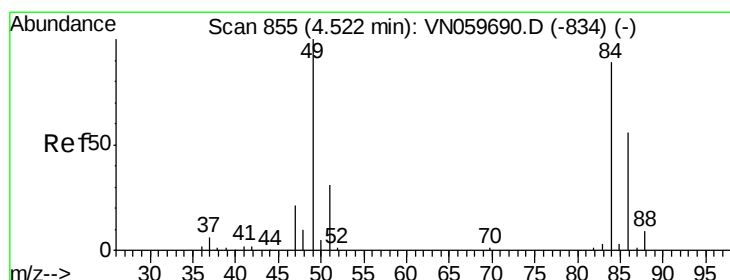
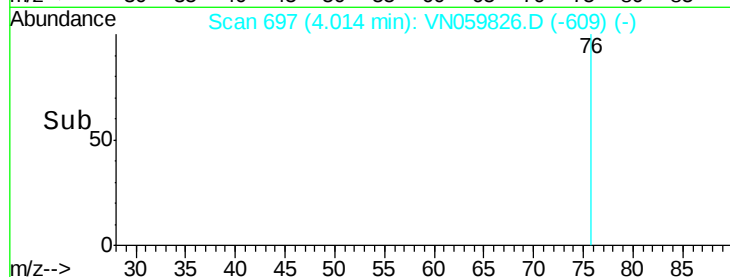
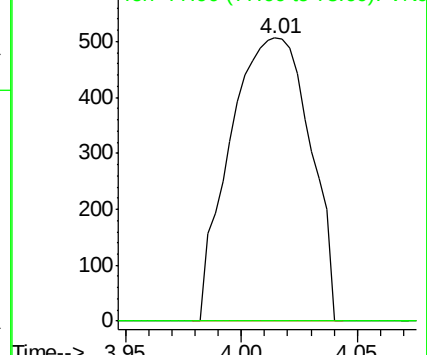
76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#20

Methylene Chloride

Concen: Below Cal

RT: 4.51 min Scan# 852

Delta R.T. -0.01 min

Lab File: VN059826.D

Acq: 22 Jan 2020 12:55

Tgt Ion: 84 Resp: 518

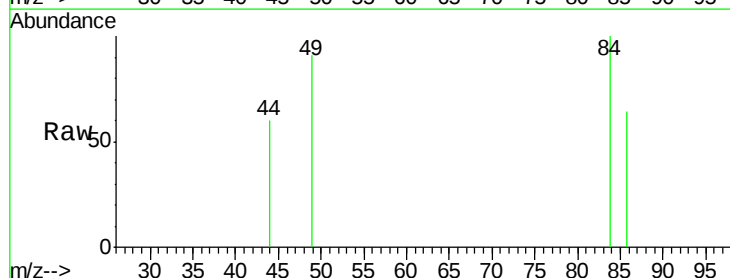
Ion Ratio Lower Upper

84 100

49 90.7 106.6 160.0#

51 0.0 31.9 47.9#

86 64.1 50.8 76.2

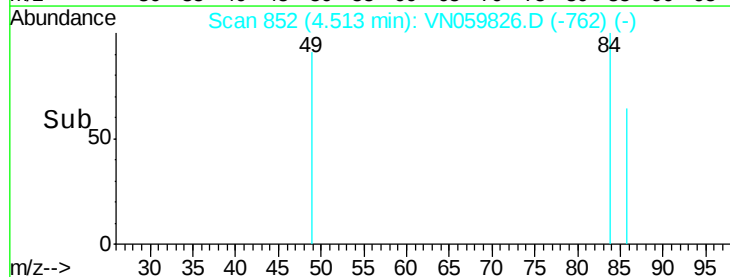
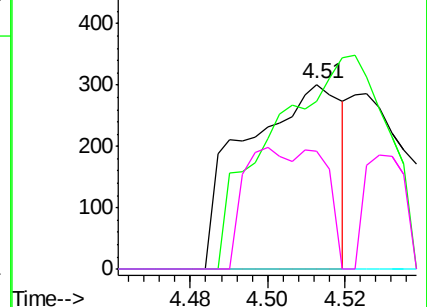


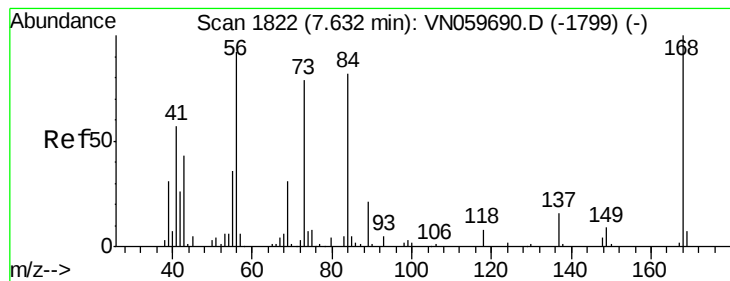
Abundance Ion 83.90 (83.60 to 84.60): VN0

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





#31

Cyclohexane

Concen: 1.15 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN059826.D

Acq: 22 Jan 2020 12:55

Instrument :

MSVOA_N

ClientSampled :

EP-6

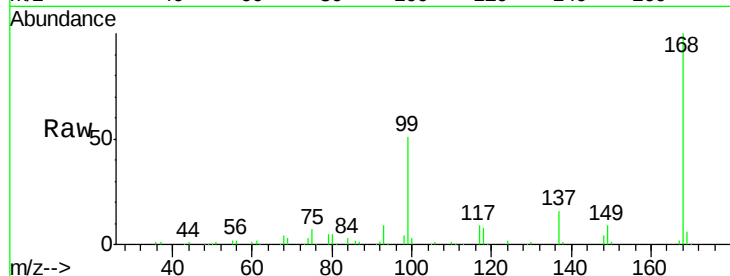
Tgt Ion: 56 Resp: 3959

Ion Ratio Lower Upper

56 100

69 167.1 26.5 39.7#

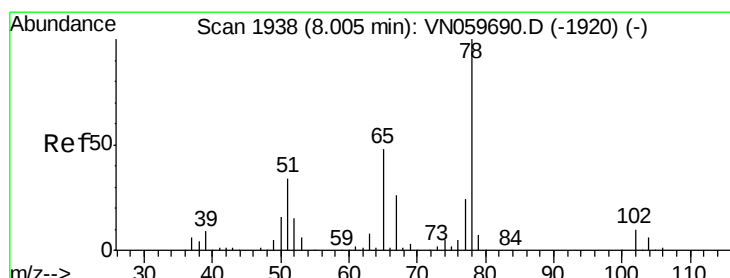
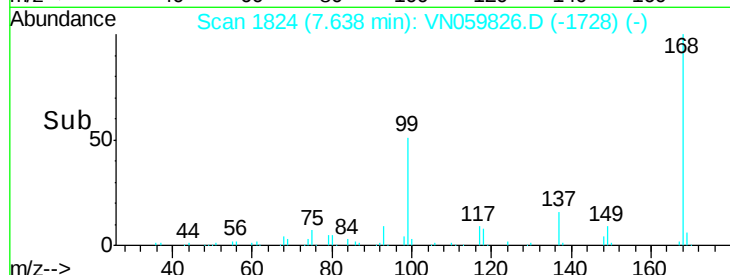
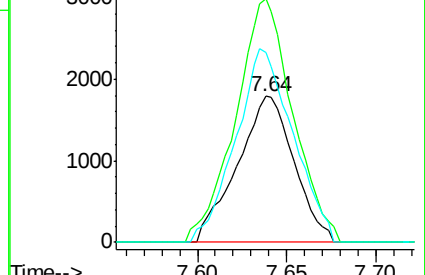
84 130.3 65.3 97.9#



Abundance Ion 56.00 (55.70 to 56.70): VN059826.D (-1728) (-)

Ion 69.00 (68.70 to 69.70): VN059826.D (-1728) (-)

Ion 84.00 (83.70 to 84.70): VN059826.D (-1728) (-)



#33

1,2-Dichloroethane-d4

Concen: 47.56 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN059826.D

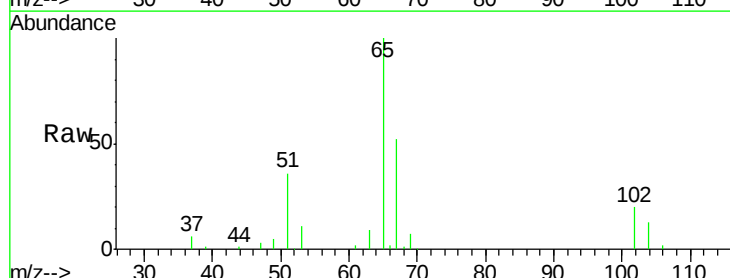
Acq: 22 Jan 2020 12:55

Tgt Ion: 65 Resp: 110248

Ion Ratio Lower Upper

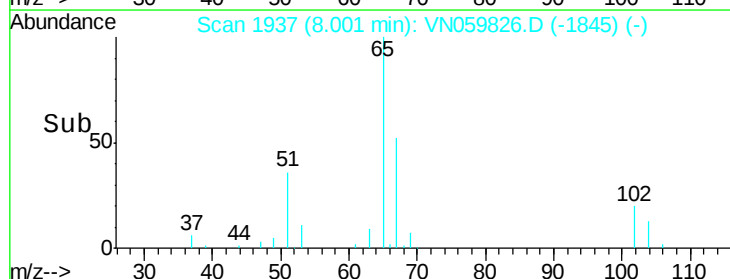
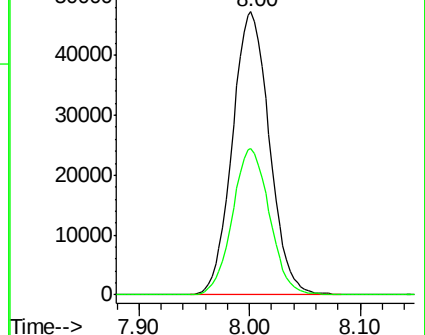
65 100

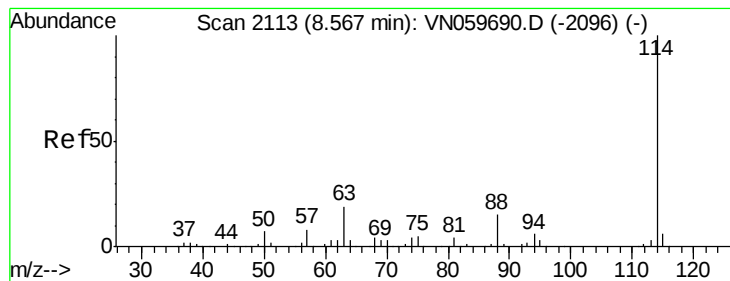
67 51.6 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN059826.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN059826.D (-1845) (-)





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.56 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VN059826.D

Acq: 22 Jan 2020 12:55

Instrument :

MSVOA_N

ClientSampleId :

EP-6

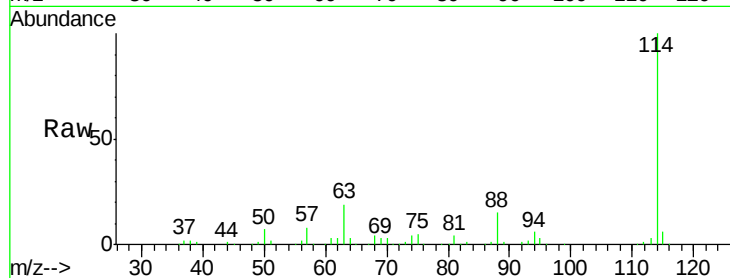
Tgt Ion:114 Resp: 312601

Ion Ratio Lower Upper

114 100

63 18.7 0.0 43.6

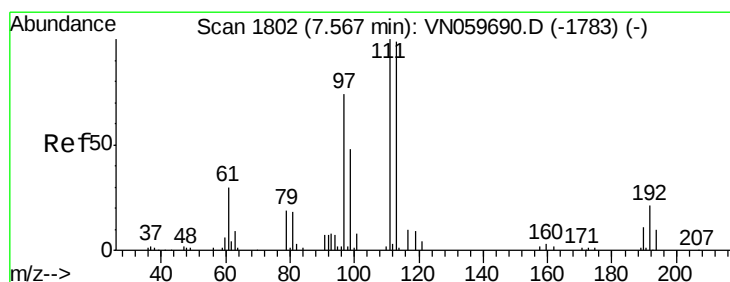
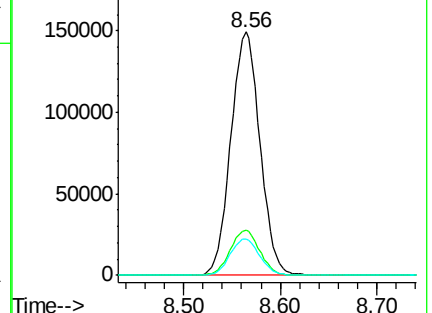
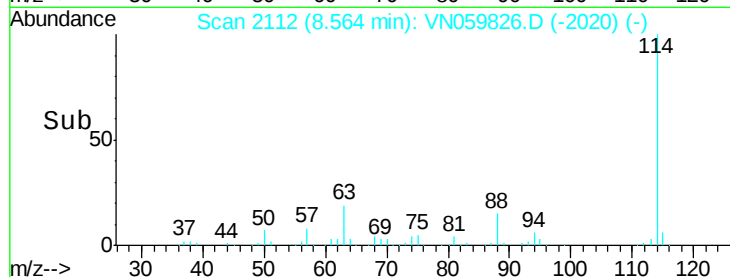
88 14.9 0.0 31.4



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: 50.22 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN059826.D

Acq: 22 Jan 2020 12:55

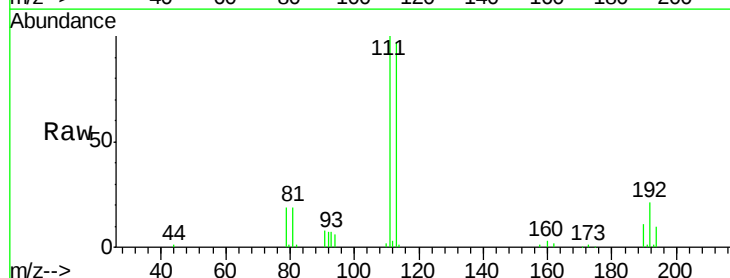
Tgt Ion:113 Resp: 93625

Ion Ratio Lower Upper

113 100

111 102.1 83.5 125.3

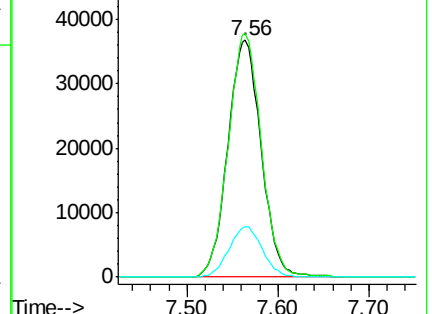
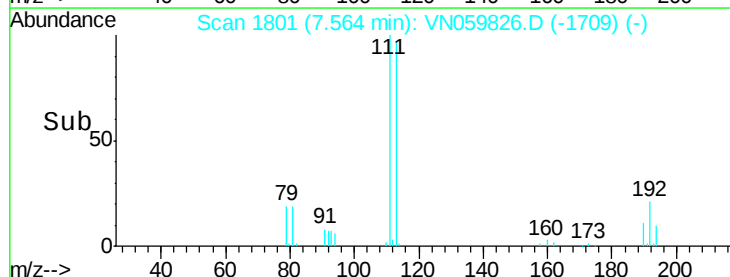
192 21.2 15.4 23.2

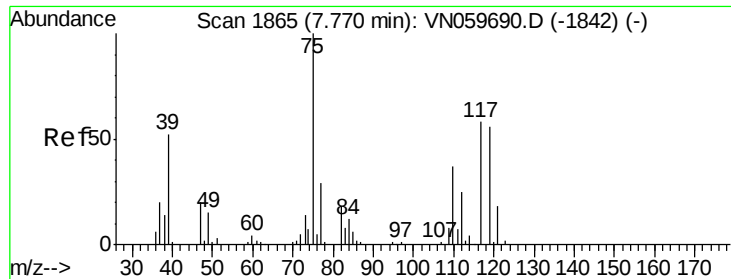


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

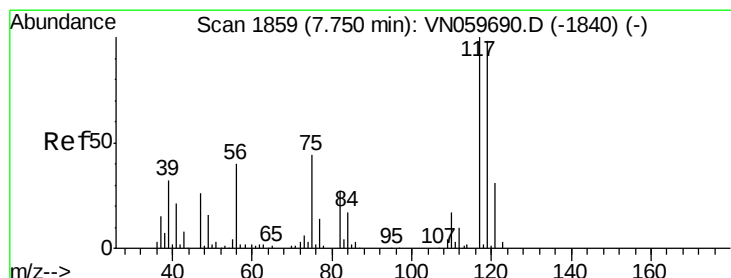
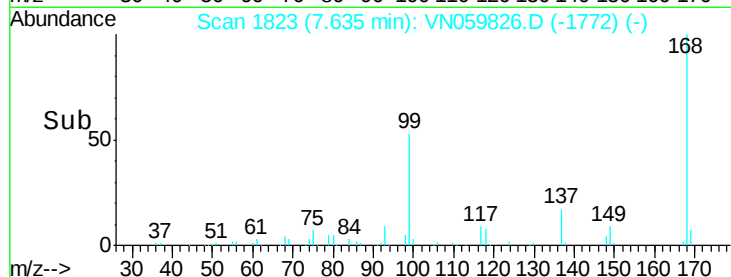
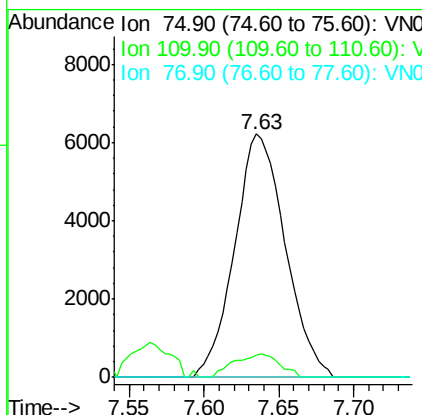
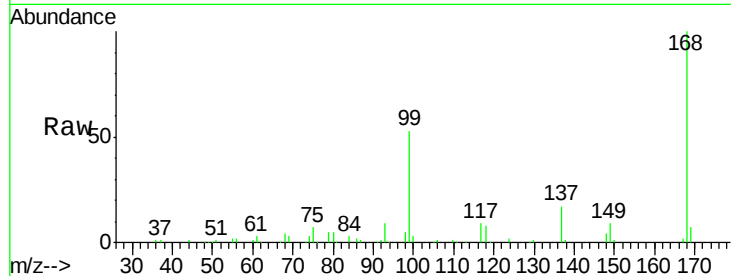




#36
 1,1-Dichloropropene
 Concen: 5.37 ug/l
 RT: 7.63 min Scan# 1823
 Delta R.T. -0.13 min
 Lab File: VN059826.D
 Acq: 22 Jan 2020 12:55

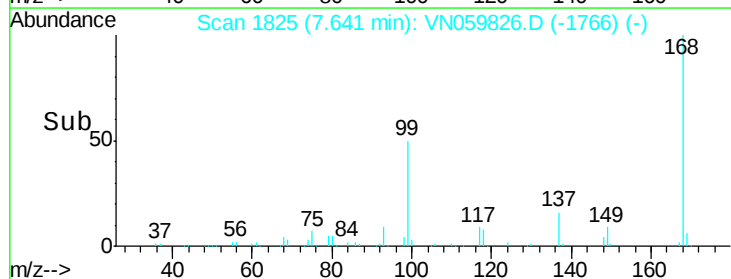
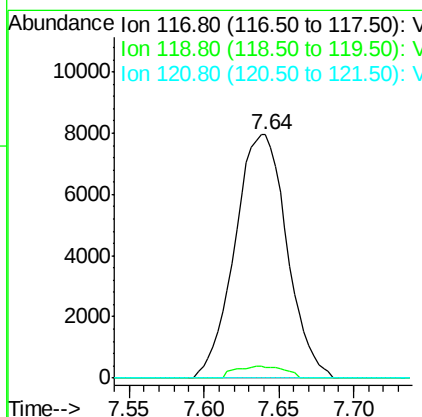
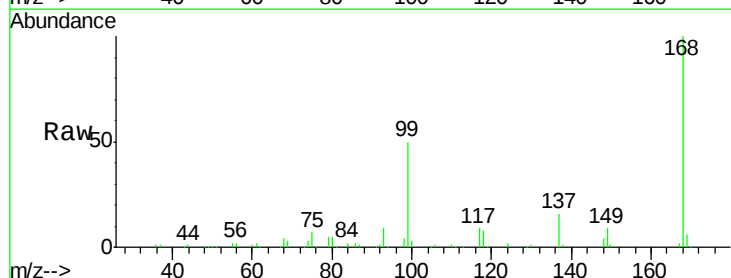
Instrument :
 MSVOA_N
 ClientSampleId :
 EP-6

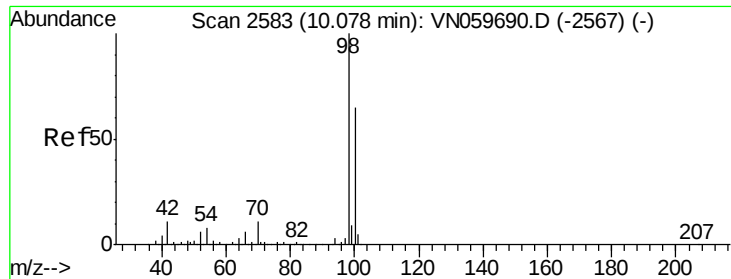
Tgt Ion: 75 Resp: 14613
 Ion Ratio Lower Upper
 75 100
 110 8.5 16.6 49.7#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 6.51 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN059826.D
 Acq: 22 Jan 2020 12:55

Tgt Ion: 117 Resp: 19263
 Ion Ratio Lower Upper
 117 100
 119 4.5 76.5 114.7#
 121 0.0 25.1 37.7#





#50

Toluene-d8

Concen: 50.02 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN059826.D

Acq: 22 Jan 2020 12:55

Instrument :

MSVOA_N

ClientSampled :

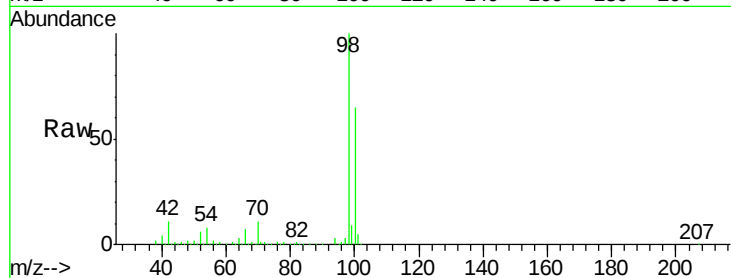
EP-6

Tgt Ion: 98 Resp: 361282

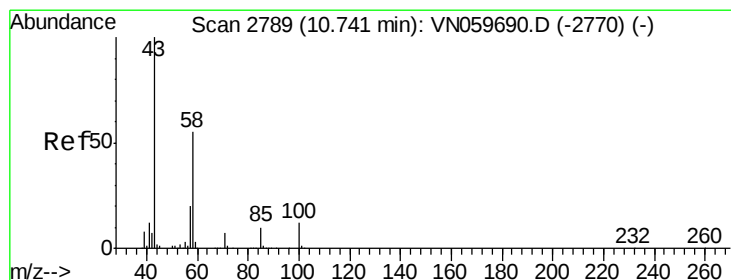
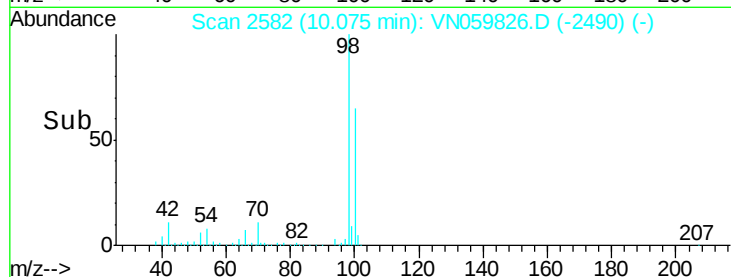
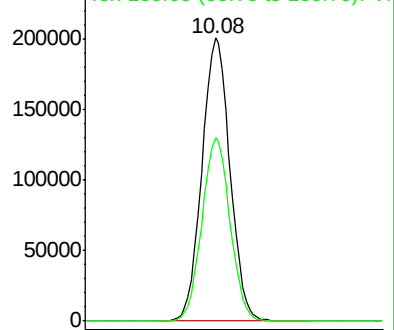
Ion Ratio Lower Upper

98 100

100 64.9 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN059826.D (-2490) (-)



#59

2-Hexanone

Concen: 0.32 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN059826.D

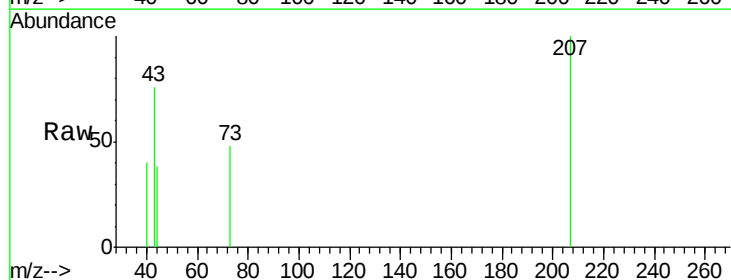
Acq: 22 Jan 2020 12:55

Tgt Ion: 43 Resp: 594

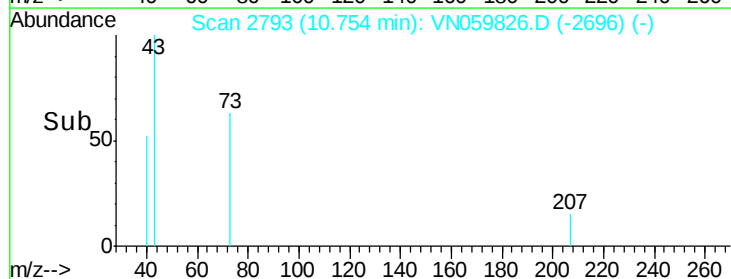
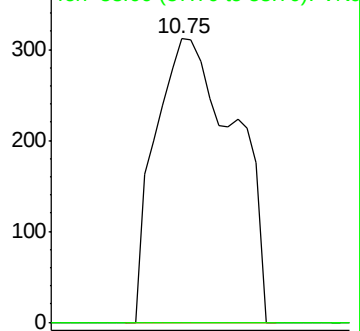
Ion Ratio Lower Upper

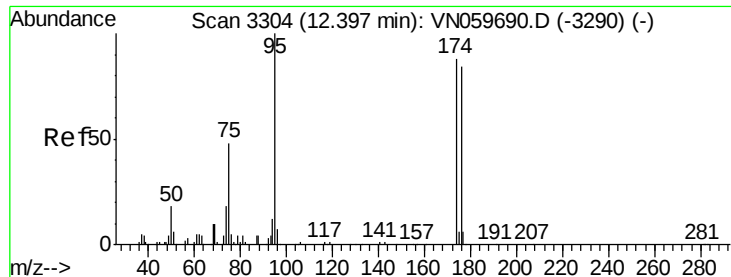
43 100

58 0.0 25.8 77.3#



Abundance Ion 43.00 (42.70 to 43.70): VN059826.D (-2696) (-)





#62

4-Bromofluorobenzene

Concen: 44.52 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN059826.D

Acq: 22 Jan 2020 12:55

Instrument :

MSVOA_N

ClientSampleId :

EP-6

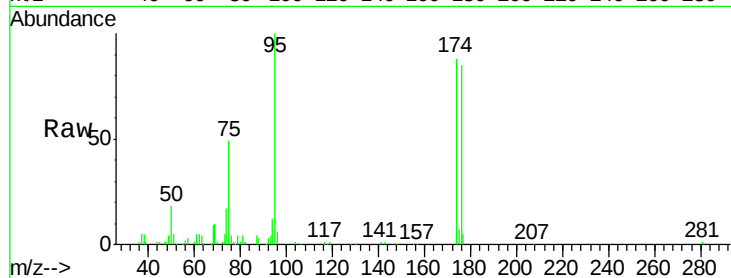
Tgt Ion: 95 Resp: 115923

Ion Ratio Lower Upper

95 100

174 88.6 0.0 151.4

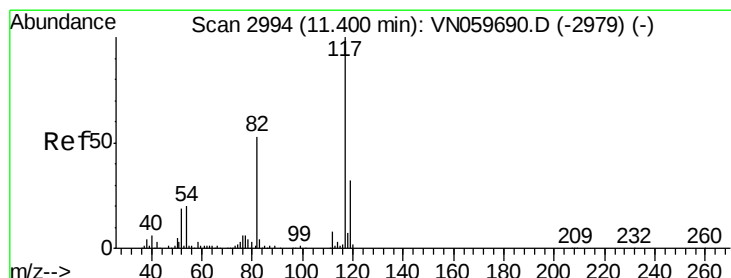
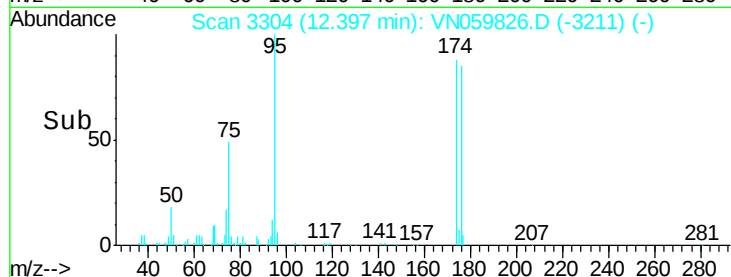
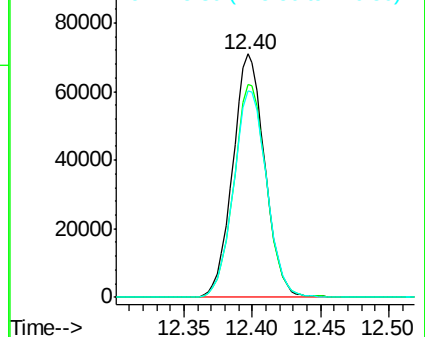
176 87.6 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN059826.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN059826.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN059826.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN059826.D

Acq: 22 Jan 2020 12:55

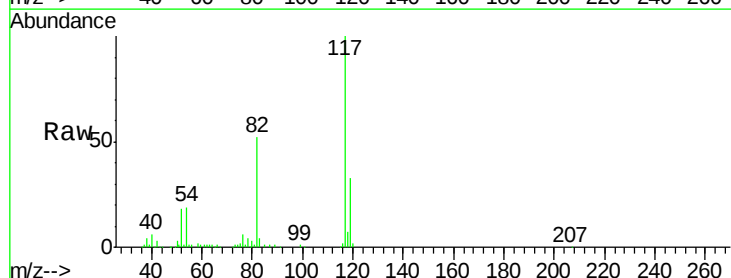
Tgt Ion: 117 Resp: 264492

Ion Ratio Lower Upper

117 100

82 52.0 45.9 68.9

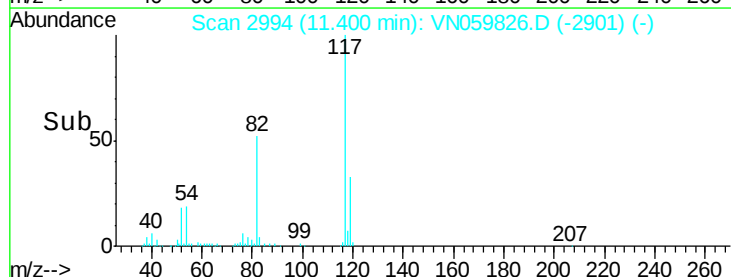
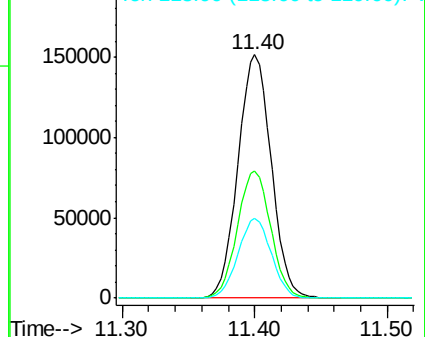
119 32.6 25.5 38.3

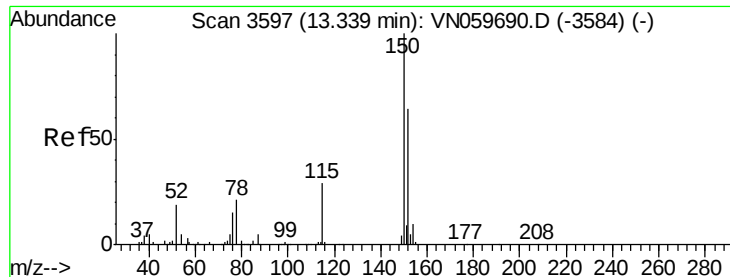


Abundance Ion 116.90 (116.60 to 117.60): VN059826.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN059826.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN059826.D (-2901) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN059826.D

Acq: 22 Jan 2020 12:55

Instrument :

MSVOA_N

ClientSampled :

EP-6

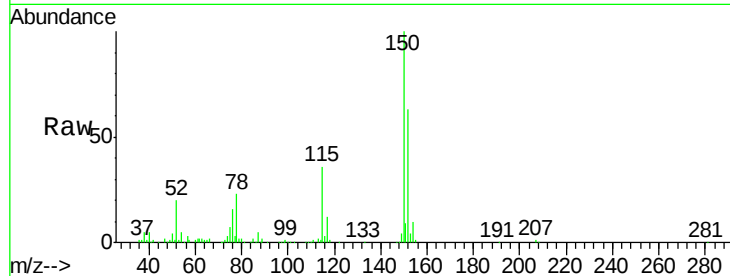
Tgt Ion:152 Resp: 115272

Ion Ratio Lower Upper

152 100

115 57.8 30.3 90.9

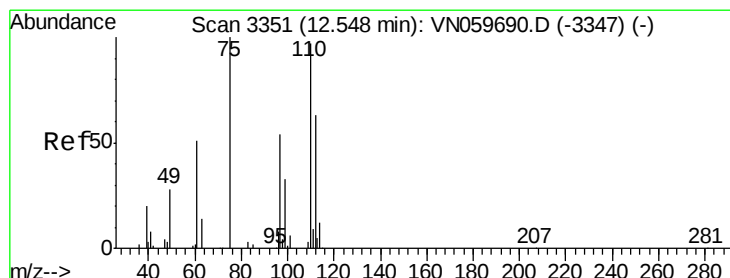
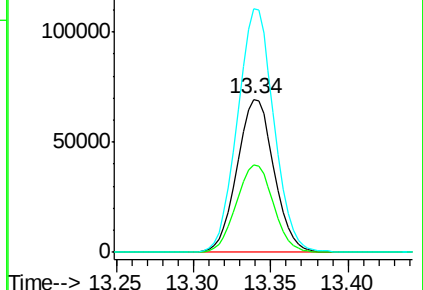
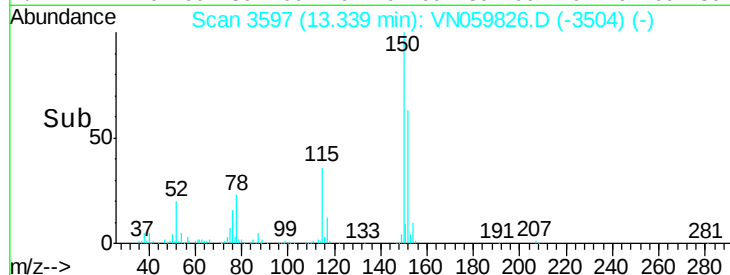
150 157.2 0.0 345.2



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



#76

1,2,3-Trichloropropane

Concen: 30.64 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059826.D

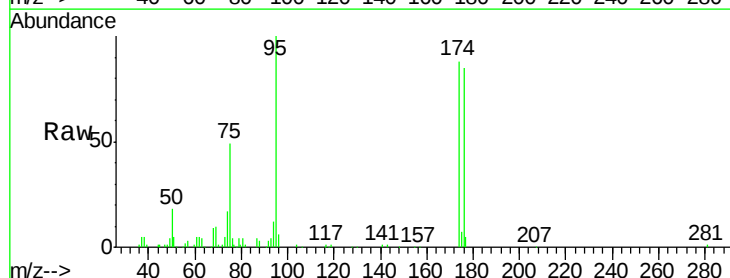
Acq: 22 Jan 2020 12:55

Tgt Ion: 75 Resp: 59430

Ion Ratio Lower Upper

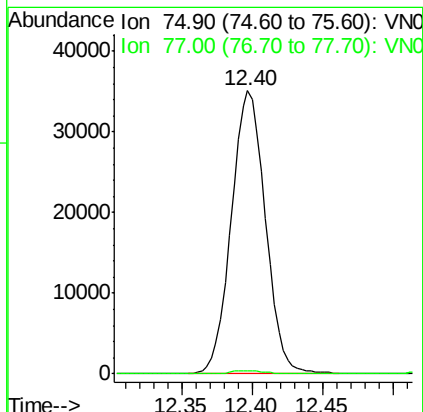
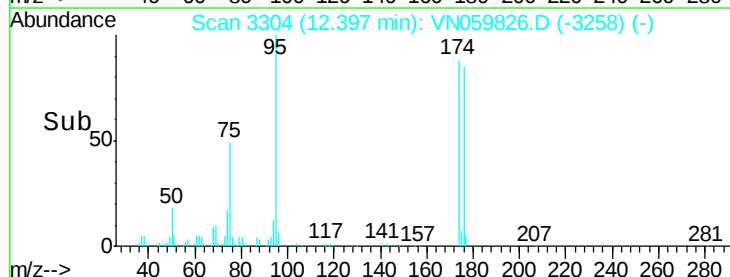
75 100

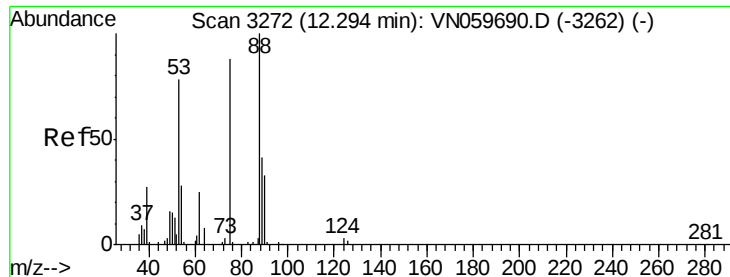
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 65.79 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059826.D

Acq: 22 Jan 2020 12:55

Instrument :

MSVOA_N

ClientSampleId :

EP-6

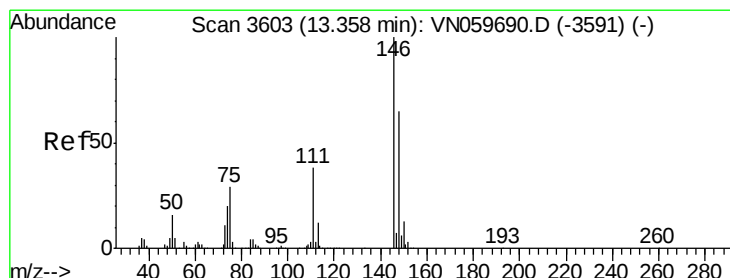
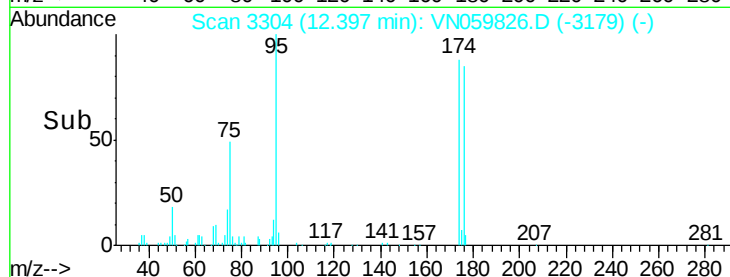
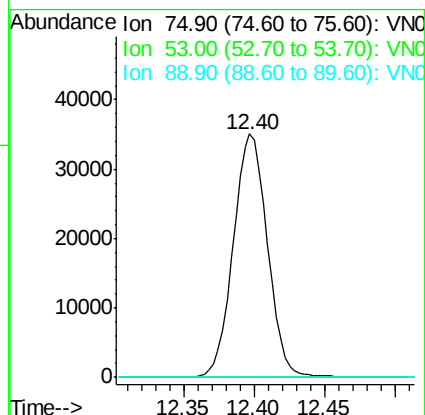
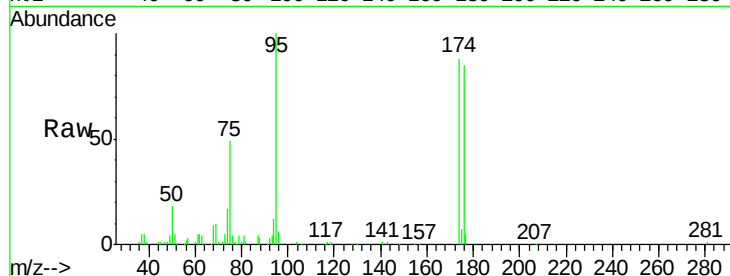
Tgt Ion: 75 Resp: 59430

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

89 0.0 35.4 53.2#



#88

1,4-Dichlorobenzene

Concen: 0.21 ug/l

RT: 13.36 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN059826.D

Acq: 22 Jan 2020 12:55

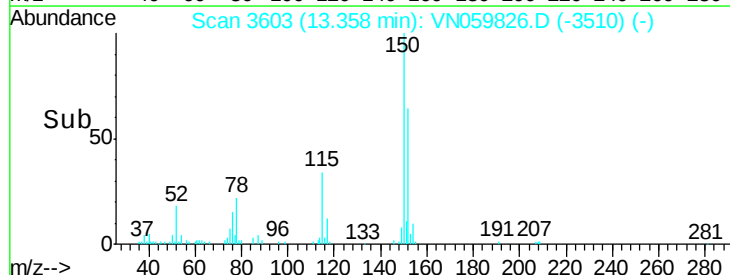
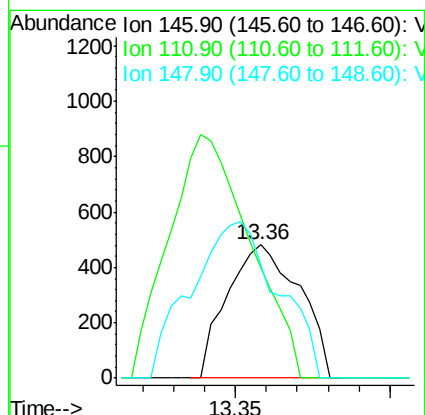
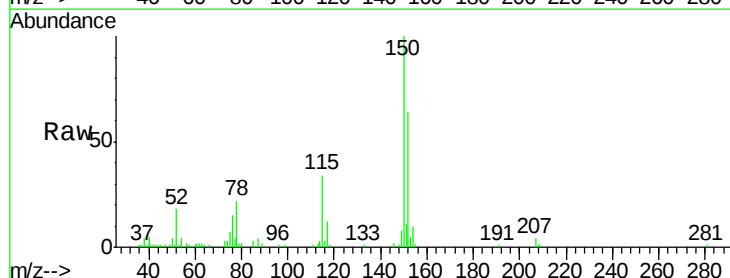
Tgt Ion: 146 Resp: 782

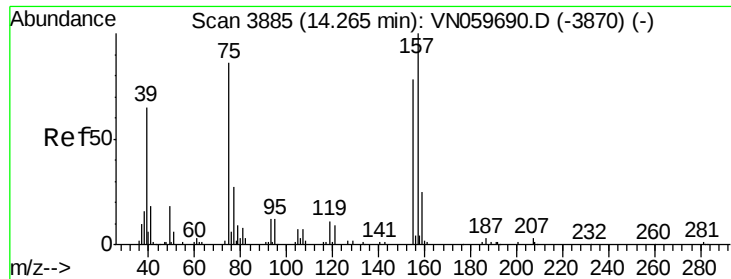
Ion Ratio Lower Upper

146 100

111 204.7 20.8 62.2#

148 141.4 31.8 95.4#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.27 min Scan# 3886

Delta R.T. 0.00 min

Lab File: VN059826.D

Acq: 22 Jan 2020 12:55

Instrument :

MSVOA_N

ClientSampled :

EP-6

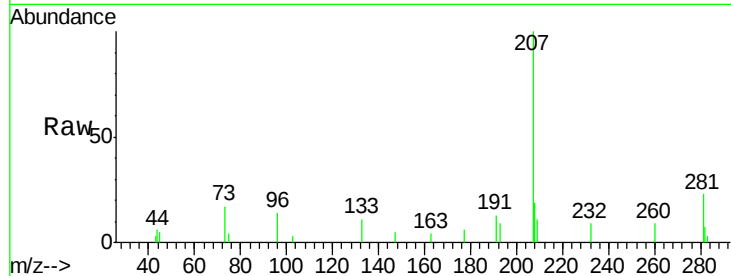
Tgt Ion: 75 Resp: 224

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

157 0.0 48.4 145.2#

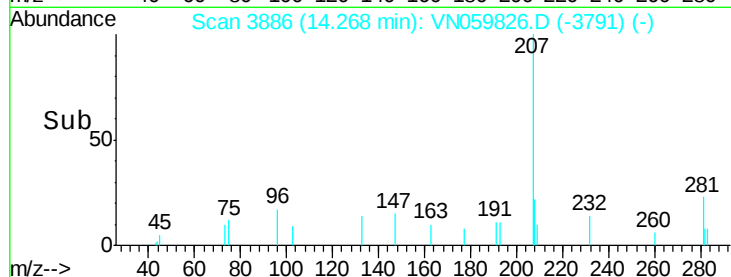


Abundance Ion 74.90 (74.60 to 75.60): VN059690.D (-3870) (-)

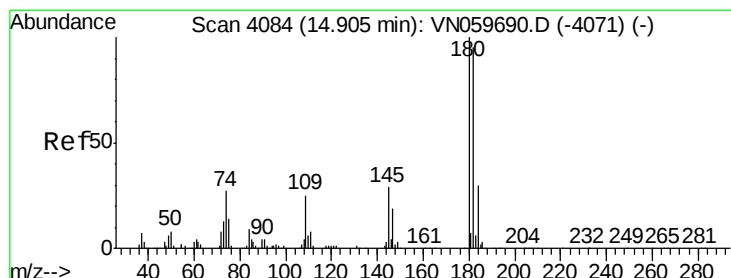
Ion 154.80 (154.50 to 155.50): VN059690.D (-3870) (-)

Ion 156.80 (156.50 to 157.50): VN059690.D (-3870) (-)

Time-->



Time-->



#93

1,2,4-Trichlorobenzene

Concen: 0.86 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.01 min

Lab File: VN059826.D

Acq: 22 Jan 2020 12:55

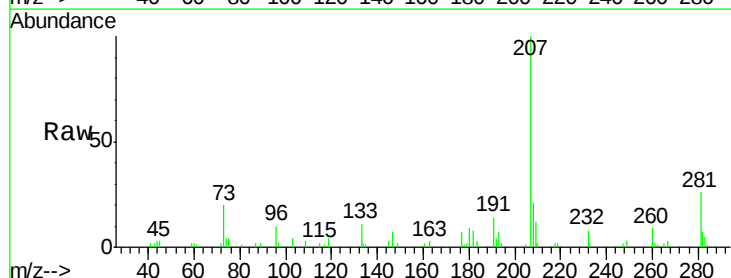
Tgt Ion: 180 Resp: 1905

Ion Ratio Lower Upper

180 100

182 88.7 46.9 140.7

145 29.4 15.0 45.1

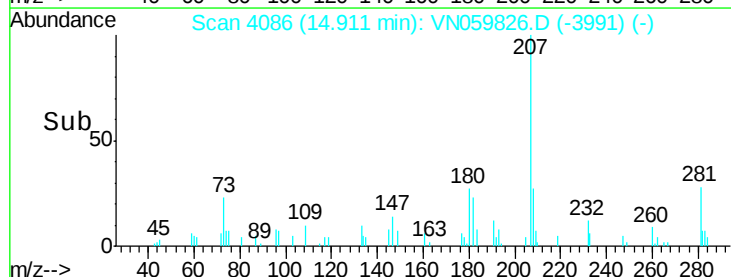


Abundance Ion 179.80 (179.50 to 180.50): VN059690.D (-4071) (-)

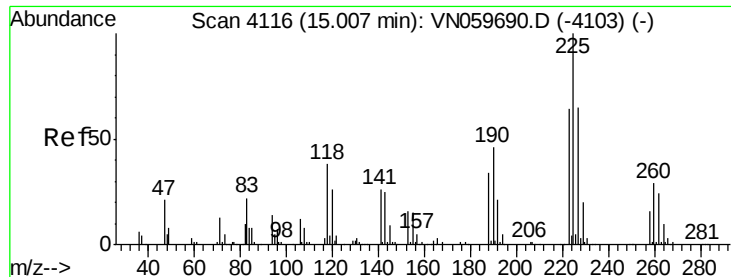
Ion 181.80 (181.50 to 182.50): VN059690.D (-4071) (-)

Ion 144.80 (144.50 to 145.50): VN059690.D (-4071) (-)

Time-->



Time-->



#94

Hexachlorobutadiene

Concen: 0.25 ug/l

RT: 15.01 min Scan# 4116

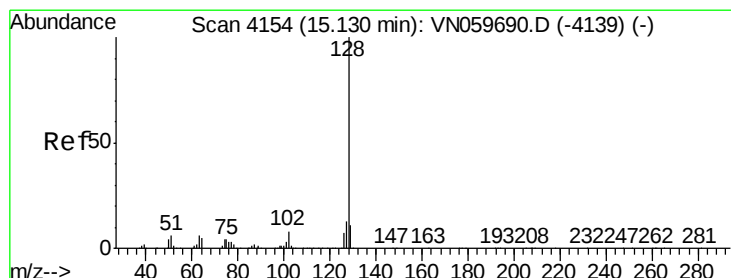
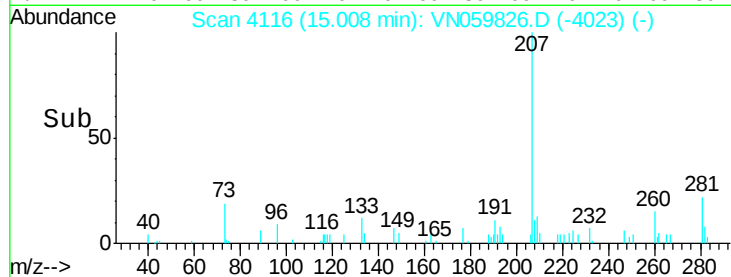
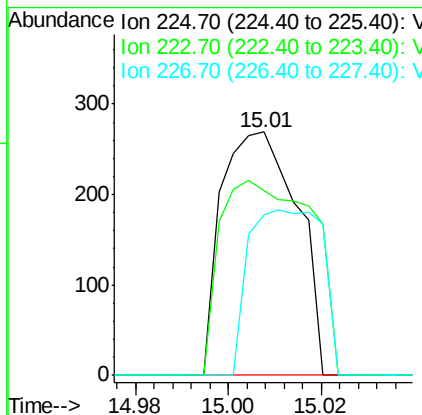
Delta R.T. 0.00 min

Lab File: VN059826.D

Acq: 22 Jan 2020 12:55

Instrument :
MSVOA_N
ClientSampled :
EP-6

Tgt Ion:	225	Resp:	305
Ion	Ratio	Lower	Upper
225	100		
223	97.4	31.8	95.3#
227	65.9	32.1	96.5



#95

Naphthalene

Concen: 1.08 ug/l

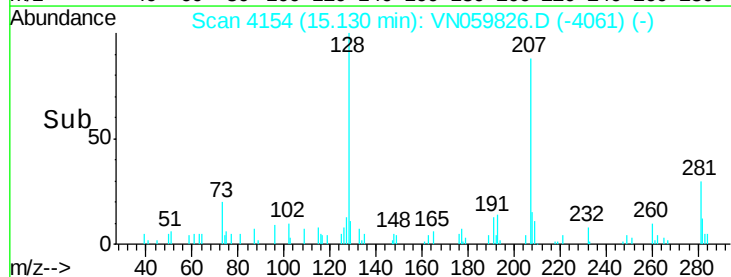
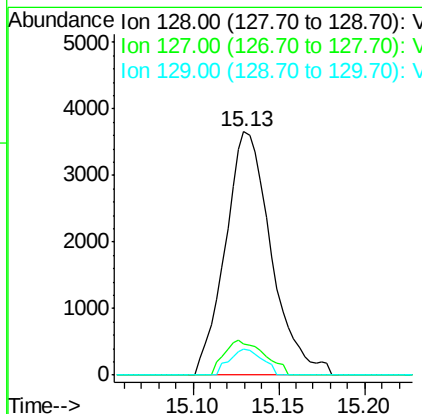
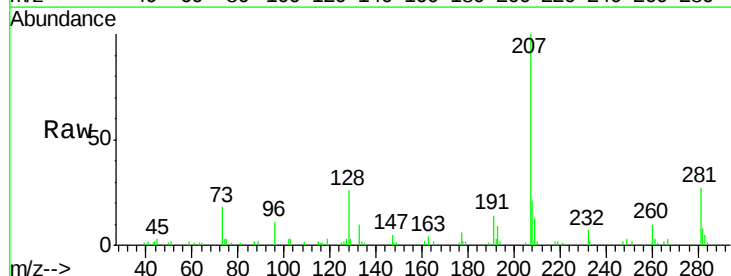
RT: 15.13 min Scan# 4154

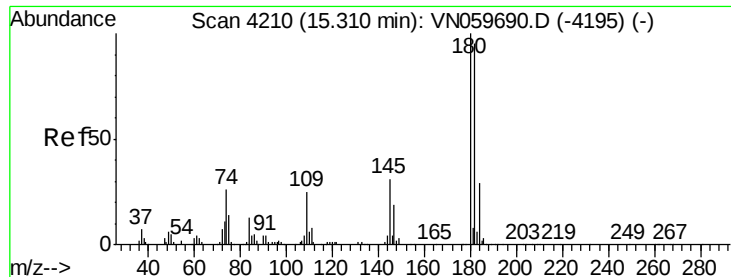
Delta R.T. 0.00 min

Lab File: VN059826.D

Acq: 22 Jan 2020 12:55

Tgt Ion:	128	Resp:	6812
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.4	15.6
129	7.6	8.6	12.8#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.19 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN059826.D
 Acq: 22 Jan 2020 12:55

Instrument :
 MSVOA_N
 ClientSampleId :
 EP-6

Tgt Ion:180 Resp: 2557
 Ion Ratio Lower Upper
 180 100
 182 93.0 47.4 142.3
 145 39.8 16.3 48.9

