

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102618\
 Data File : VN052025.D
 Acq On : 26 Oct 2018 13:53
 Operator : MD\SY
 Sample : PB114195ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114195ZHE#02

Quant Time: Oct 26 23:22:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 24 10:12:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1221492	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1779862	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1720429	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	834061	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	628280	57.75	ug/l	0.00
Spiked Amount			Recovery	=	115.50%	
35) Dibromofluoromethane	7.59	113	658722	58.00	ug/l	0.00
Spiked Amount			Recovery	=	116.00%	
50) Toluene-d8	10.09	98	2436215	59.36	ug/l	0.00
Spiked Amount			Recovery	=	118.72%	
62) 4-Bromofluorobenzene	12.40	95	796818	56.48	ug/l	0.00
Spiked Amount			Recovery	=	112.96%	

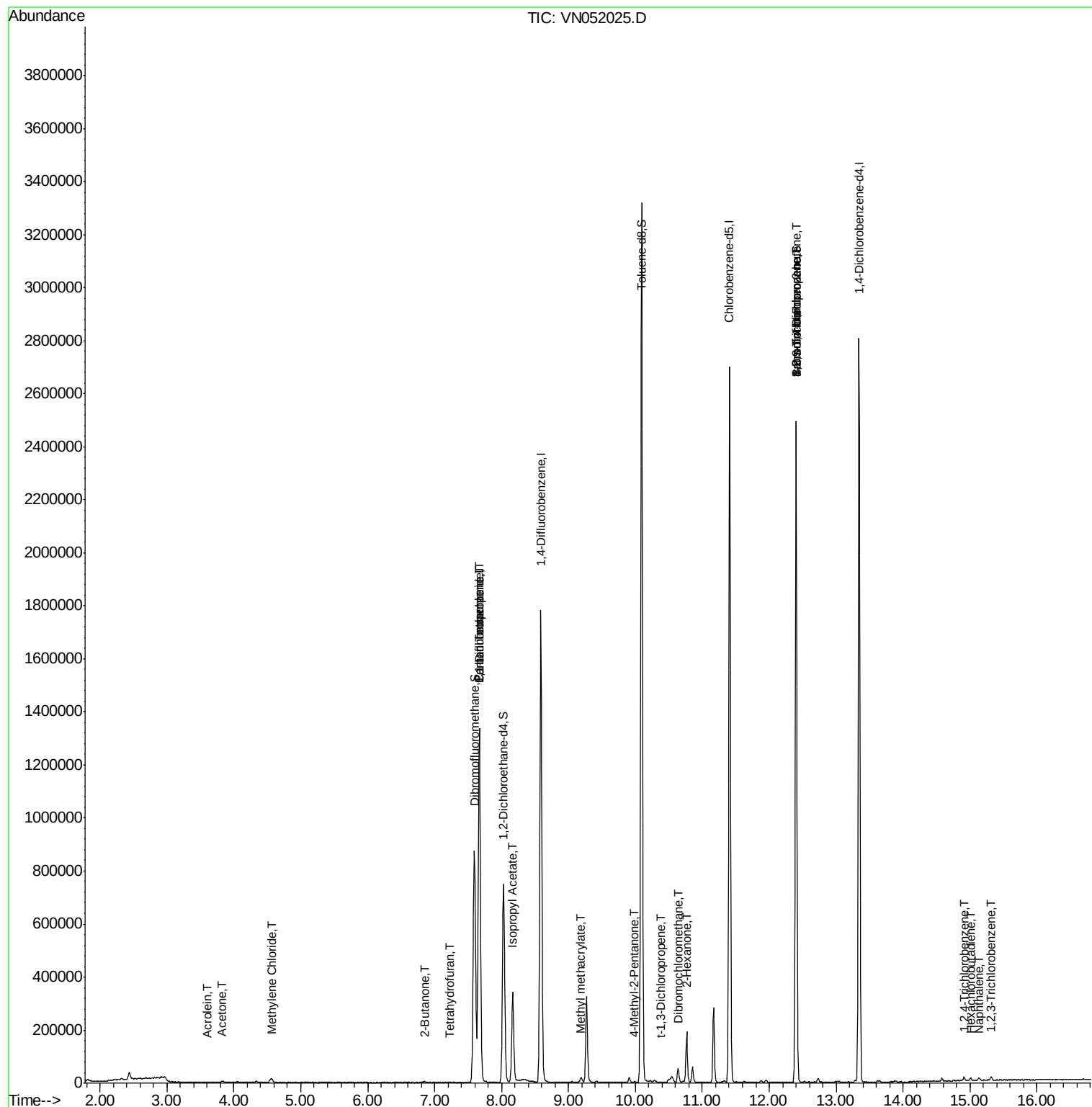
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	135	37.627	ug/l #	18
16) Acetone	3.83	43	10938	6.103	ug/l	100
18) Methyl Acetate	4.34	43	7018	Below Cal	#	82
20) Methylene Chloride	4.56	84	13112	1.247	ug/l	93
25) 2-Butanone	6.84	43	3942	1.543	ug/l #	85
29) Tetrahydrofuran	7.22	42	1280	0.739	ug/l #	52
31) Cyclohexane	7.67	56	18563	Below Cal	#	35
36) 1,1-Dichloropropene	7.67	75	68721	5.033	ug/l #	47
37) Ethyl Acetate	6.93	43	340	Below Cal	#	64
38) Carbon Tetrachloride	7.67	117	107430	6.854	ug/l #	15
43) Isopropyl Acetate	8.17	43	372513	32.579	ug/l	99
48) Methyl methacrylate	9.18	41	4692	0.849	ug/l #	11
51) 4-Methyl-2-Pentanone	9.99	43	1569	0.249	ug/l	91
53) t-1,3-Dichloropropene	10.38	75	160	1.255	ug/l #	58
59) 2-Hexanone	10.76	43	24969	5.909	ug/l #	52
60) Dibromochloromethane	10.63	129	486	2.014	ug/l #	11
71) Bromoform	12.40	173	6335	4.328	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	384091	44.582	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	384091	140.332	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.91	180	4942	0.321	ug/l	96
94) Hexachlorobutadiene	15.01	225	2050	0.259	ug/l	95
95) Naphthalene	15.13	128	9049	0.271	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.31	180	5069	0.345	ug/l	91

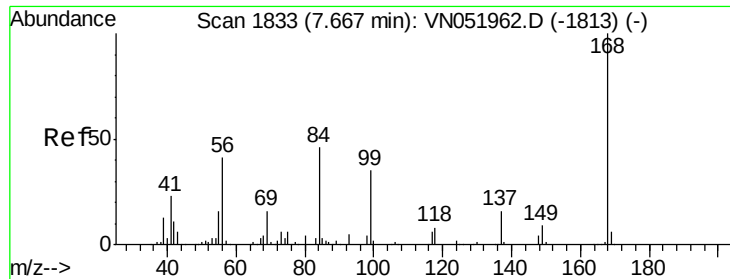
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Oct 24 10:12:55 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN052025.D

Acq: 26 Oct 2018 13:53

Instrument :

MSVOA_N

ClientSampleId :

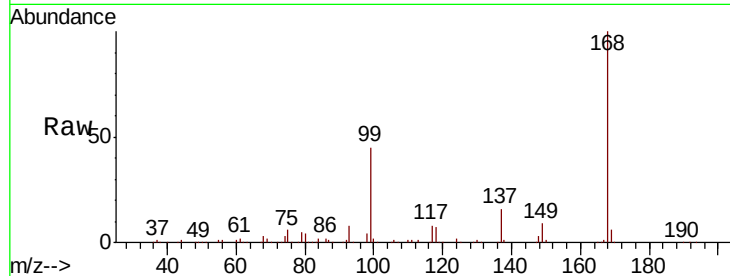
PB114195ZHE#02

Tot Ion:168 Resp: 1221492

Ion Ratio Lower Upper

168 100

99 44.9 37.8 56.6



Abundance Ion 167.90 (167.60 to 168.60): VN051962.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051962.D (-1813) (-)

7.67

600000

500000

400000

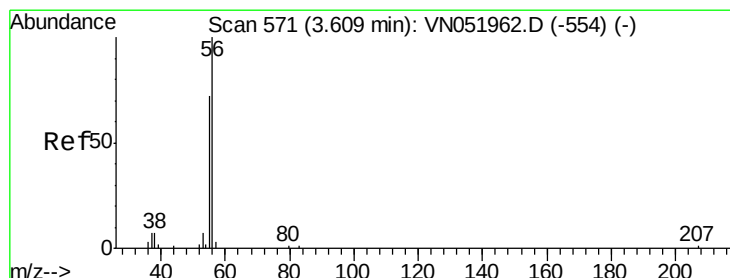
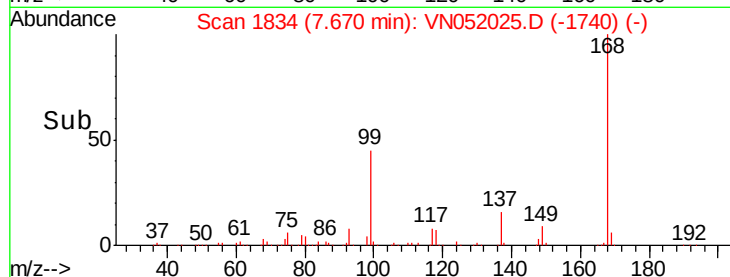
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 37.627 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052025.D

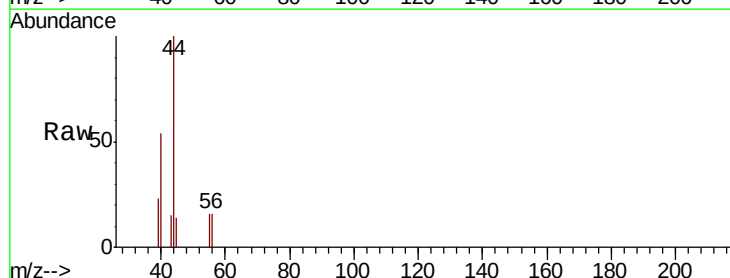
Acq: 26 Oct 2018 13:53

Tgt Ion: 56 Resp: 135

Ion Ratio Lower Upper

56 100

55 138.5 56.6 84.8#



Abundance Ion 56.00 (55.70 to 56.70): VN051962.D (-554) (-)

Ion 55.00 (54.70 to 55.70): VN051962.D (-554) (-)

3.61

250

200

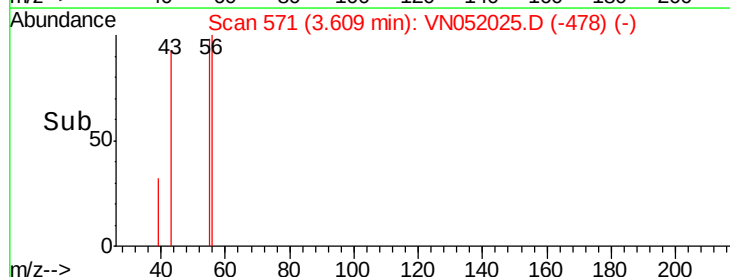
150

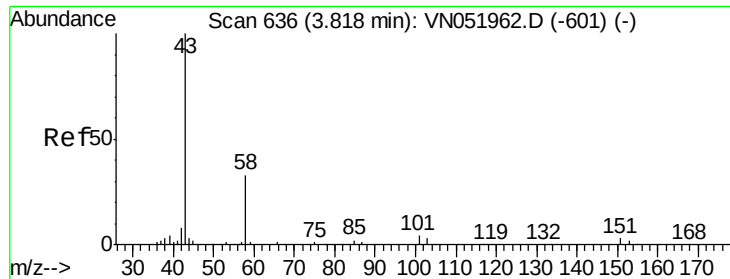
100

50

0

Time-->





#16

Acetone

Concen: 6.103 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN052025.D

Acq: 26 Oct 2018 13:53

Instrument :

MSVOA_N

ClientSampleId :

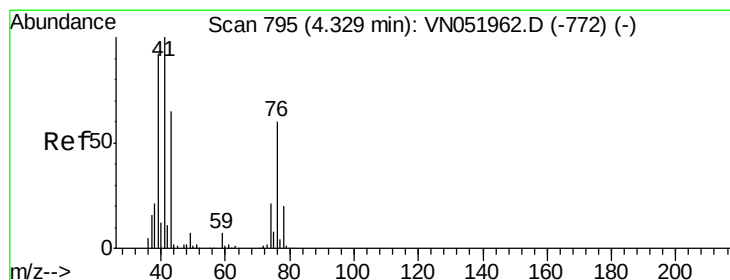
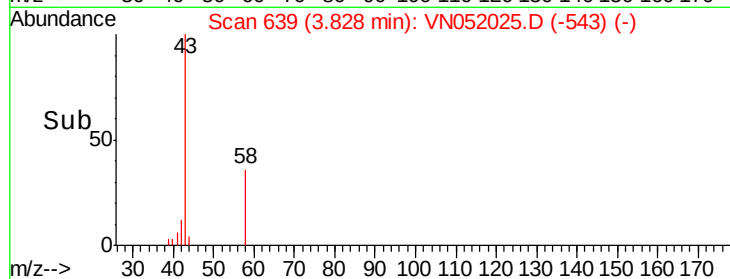
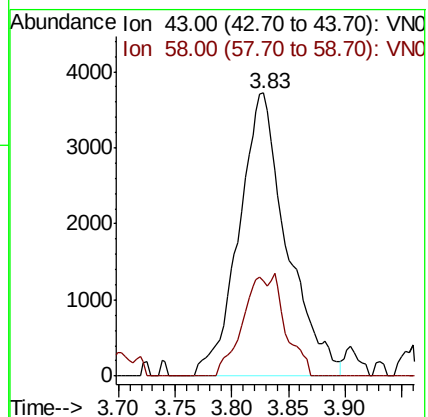
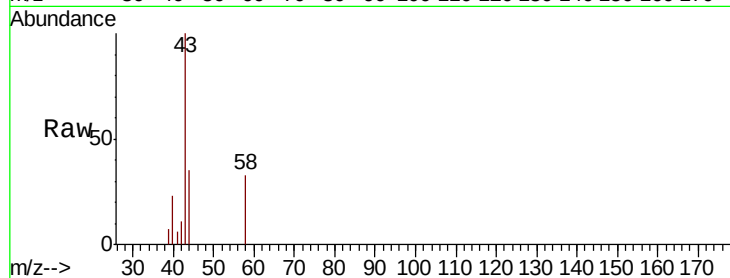
PB114195ZHE#02

Tot Ion: 43 Resp: 10938

Ion Ratio Lower Upper

43 100

58 33.5 26.7 40.1



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN052025.D

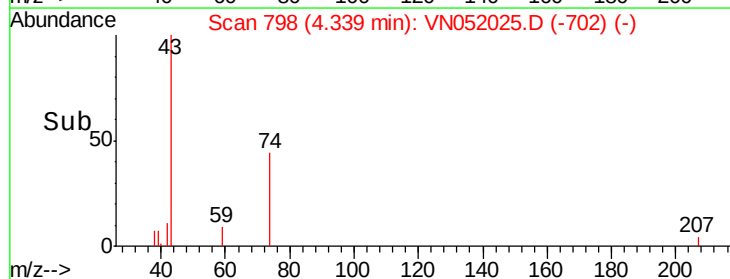
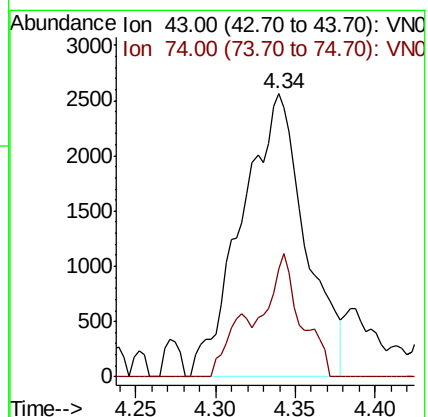
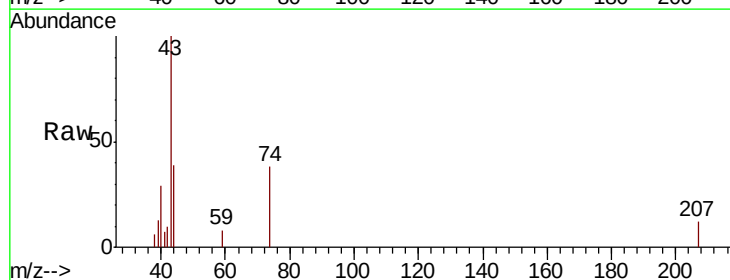
Acq: 26 Oct 2018 13:53

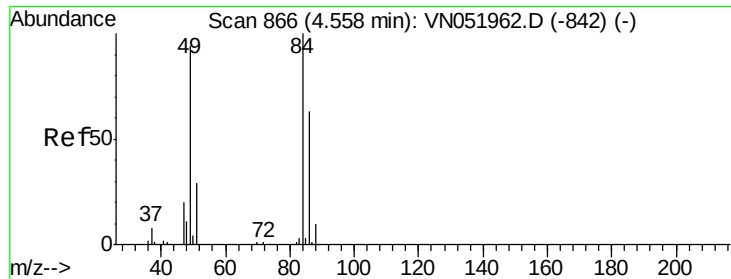
Tgt Ion: 43 Resp: 7018

Ion Ratio Lower Upper

43 100

74 21.8 25.7 38.5#

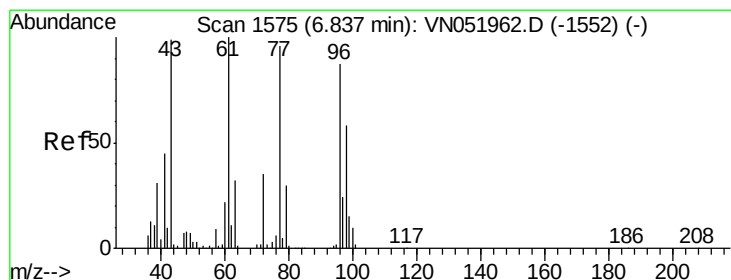
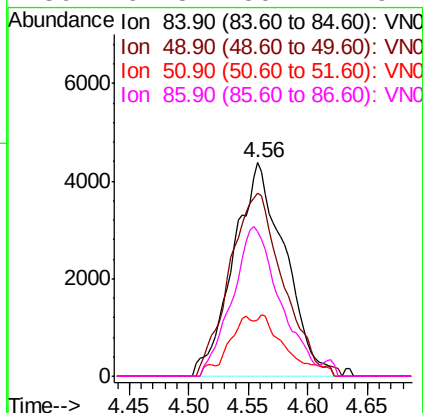
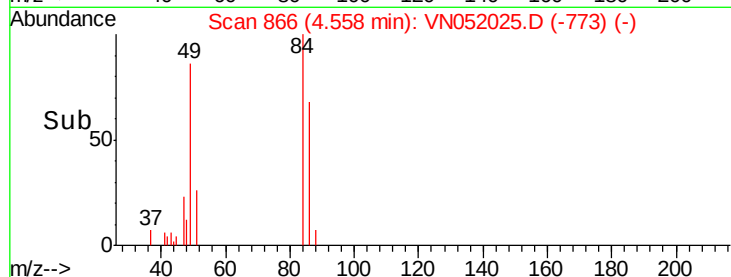
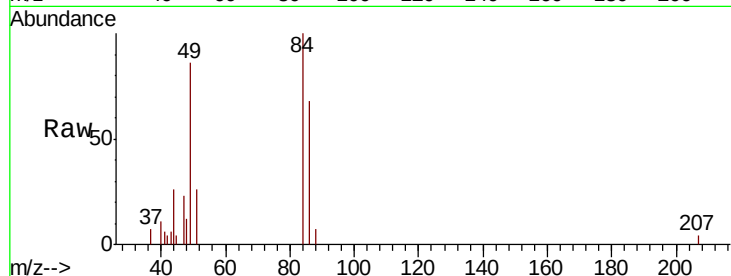




#20
Methvlene Chloride
Concen: 1.247 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052025.D
Acq: 26 Oct 2018 13:53

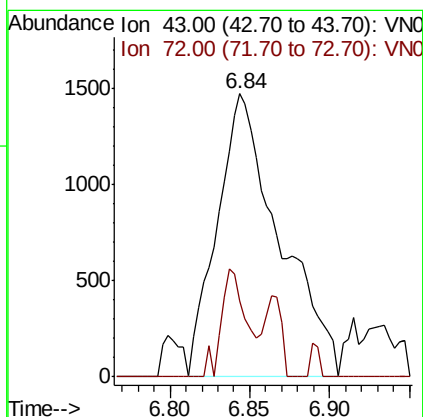
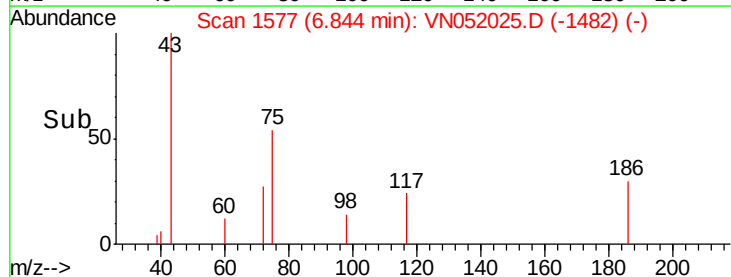
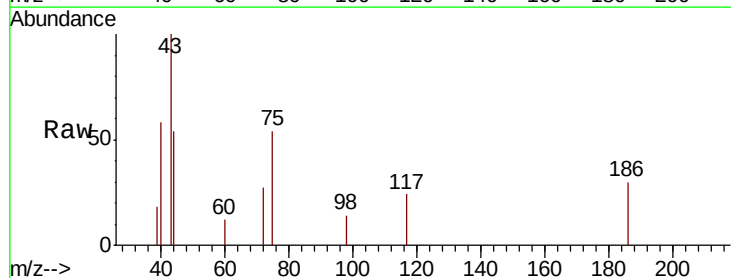
Instrument :
MSVOA_N
ClientSampleId :
PB114195ZHE#02

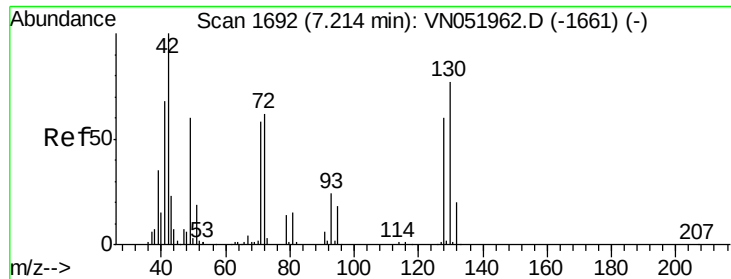
Tot Ion: 84 Resp: 13112
Ion Ratio Lower Upper
84 100
49 85.8 75.4 113.0
51 26.3 23.1 34.7
86 67.8 50.2 75.4



#25
2-Butanone
Concen: 1.543 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN052025.D
Acq: 26 Oct 2018 13:53

Tgt Ion: 43 Resp: 3942
Ion Ratio Lower Upper
43 100
72 26.9 28.5 42.7#





#29

Tetrahydrofuran

Concen: 0.739 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.00 min

Lab File: VN052025.D

Acq: 26 Oct 2018 13:53

Instrument :

MSVOA_N

ClientSampleId :

PB114195ZHE#02

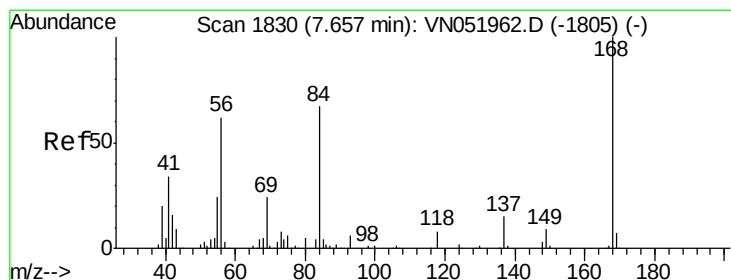
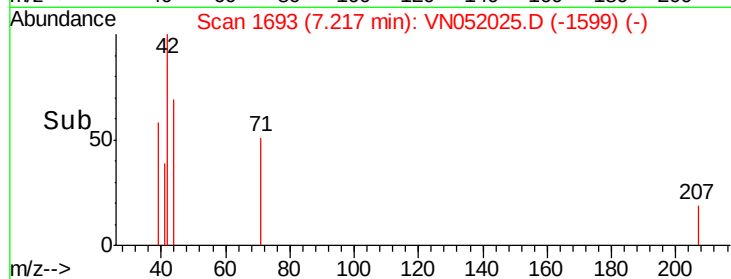
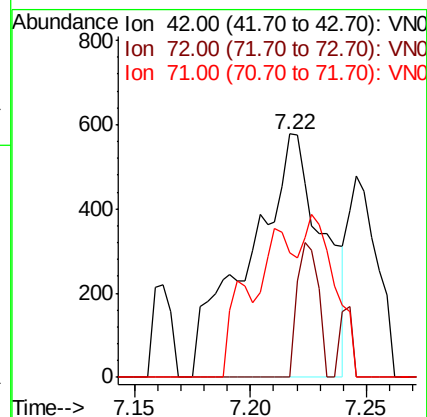
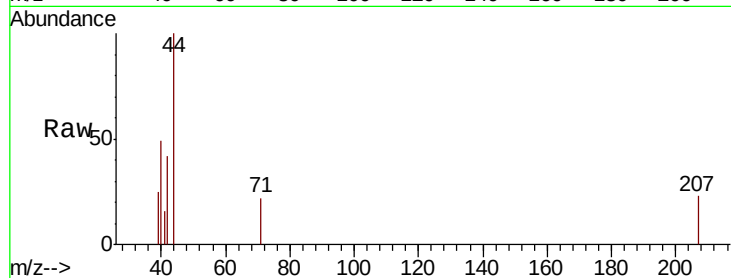
Tot Ion: 42 Resp: 1280

Ion Ratio Lower Upper

42 100

72 16.0 47.5 71.3#

71 29.1 45.4 68.2#



#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1835

Delta R.T. 0.02 min

Lab File: VN052025.D

Acq: 26 Oct 2018 13:53

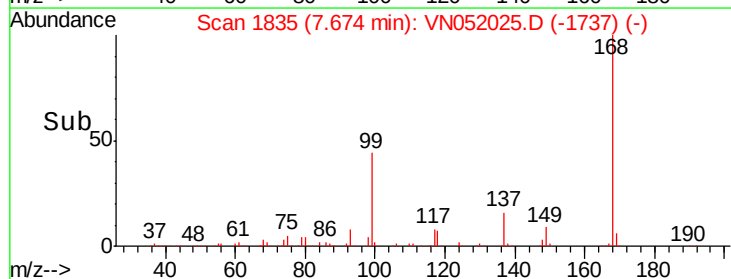
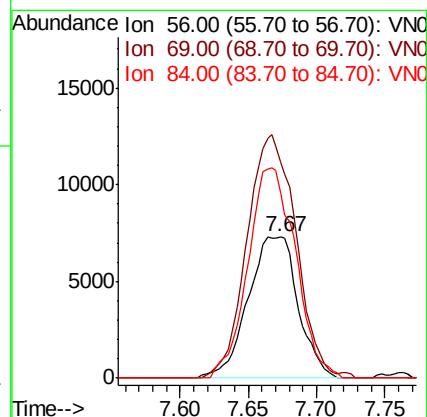
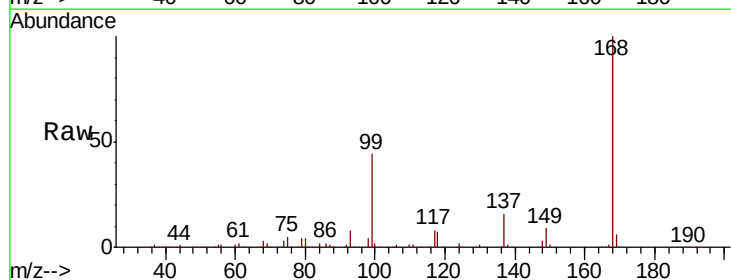
Tgt Ion: 56 Resp: 18563

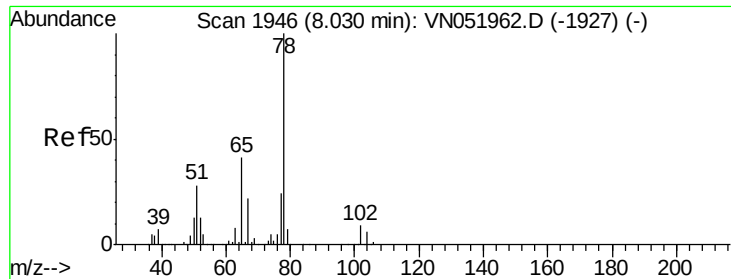
Ion Ratio Lower Upper

56 100

69 152.2 31.2 46.8#

84 130.6 86.3 129.5#

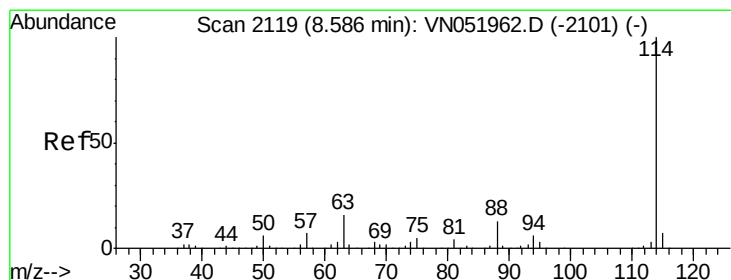
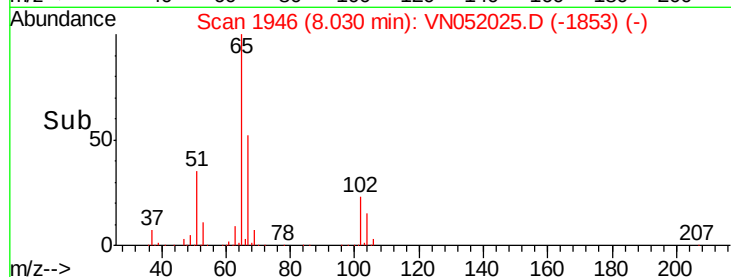
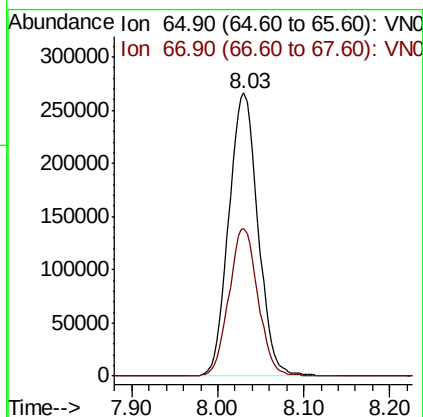
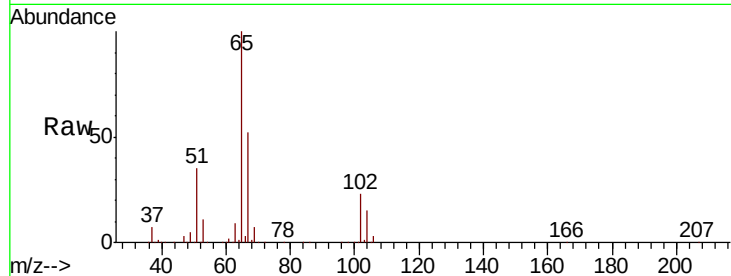




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN052025.D
 Acq: 26 Oct 2018 13:53

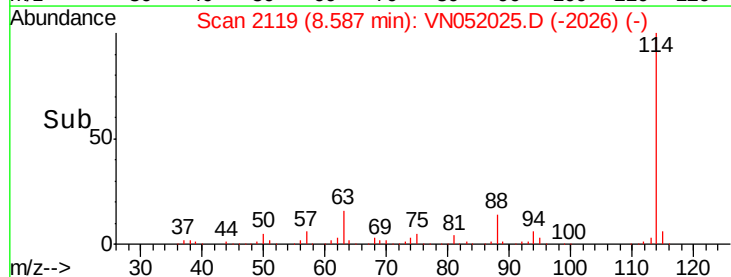
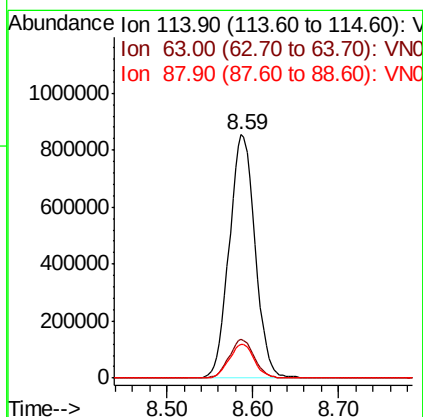
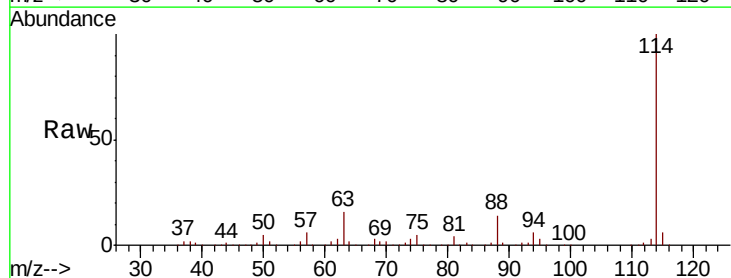
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 PB114195ZHE#02

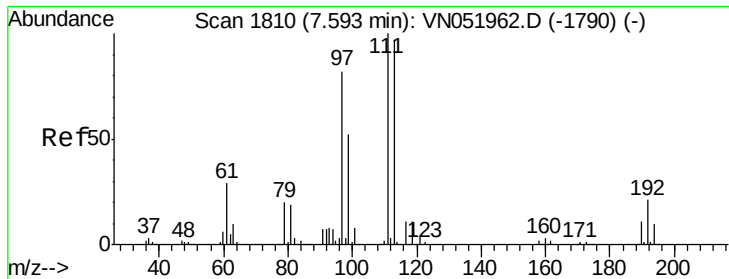
Tot Ion: 65 Resp: 628280
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052025.D
 Acq: 26 Oct 2018 13:53

Tgt Ion: 114 Resp: 1779862
 Ion Ratio Lower Upper
 114 100
 63 15.7 0.0 31.2
 88 14.0 0.0 27.0

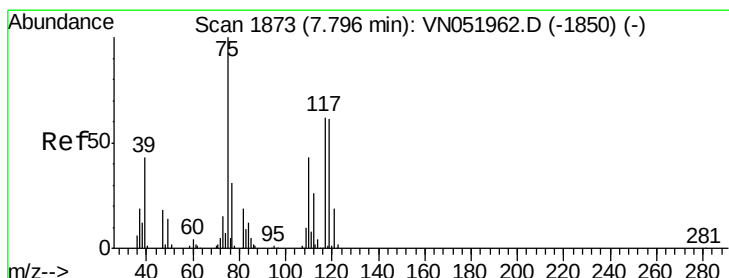
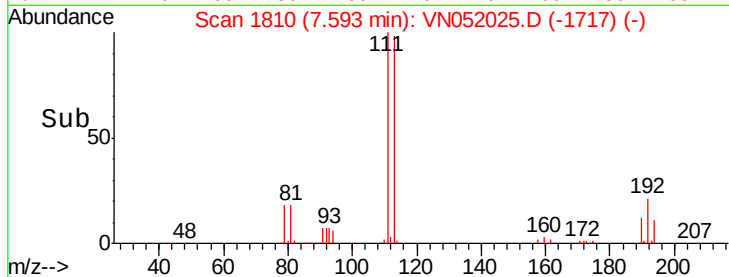
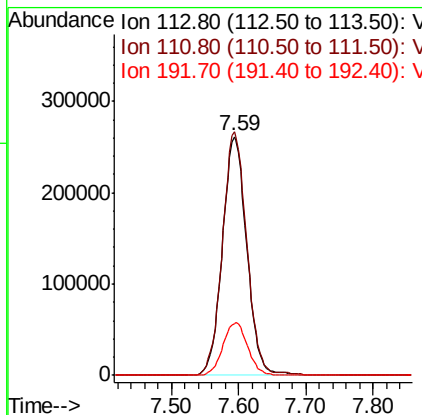
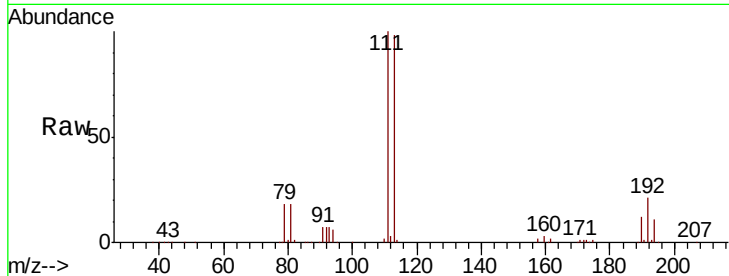




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052025.D
 Acq: 26 Oct 2018 13:53

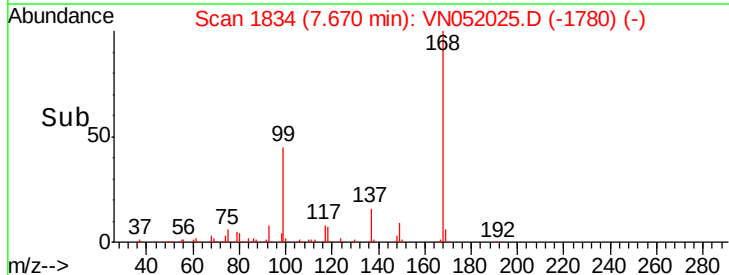
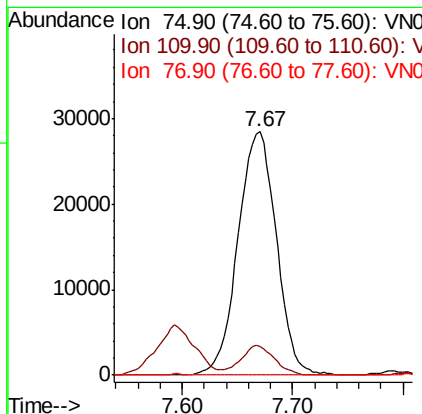
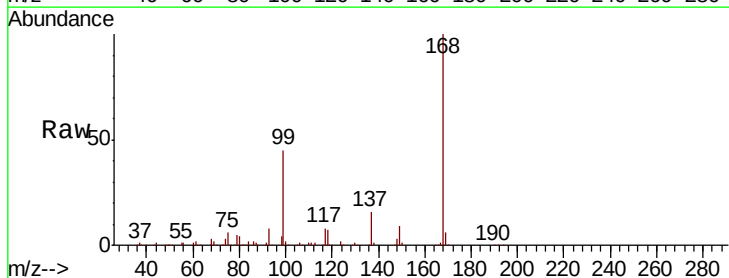
Instrument :
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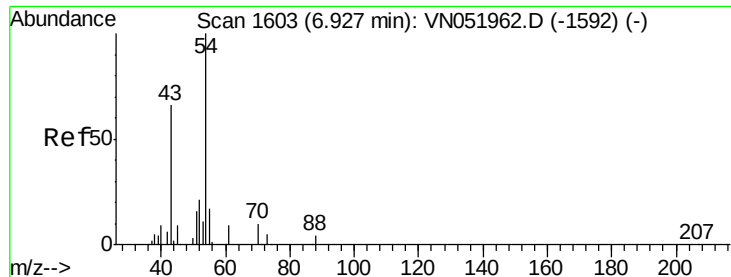
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	80.7	121.1
192	22.5	17.2	25.8



#36
 1,1-Dichloropropene
 Concen: 5.033 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.13 min
 Lab File: VN052025.D
 Acq: 26 Oct 2018 13:53

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.5	20.9	62.8#
77	0.0	24.9	37.3#





#37

Ethyl Acetate

Concen: Below Cal

RT: 6.93 min Scan# 1605

Delta R.T. 0.01 min

Lab File: VN052025.D

Acq: 26 Oct 2018 13:53

Instrument :

MSVOA_N

ClientSampleId :

PB114195ZHE#02

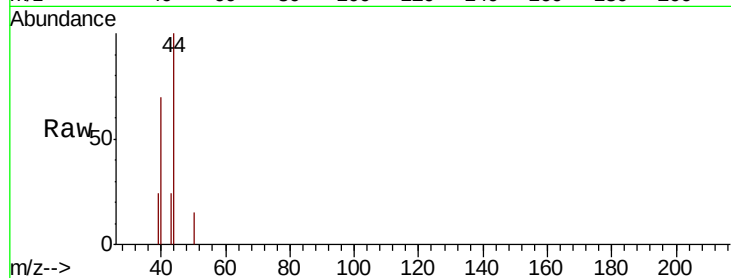
Tot Ion: 43 Resp: 340

Ion Ratio Lower Upper

43 100

61 0.0 13.5 20.3#

70 0.0 9.8 14.6#

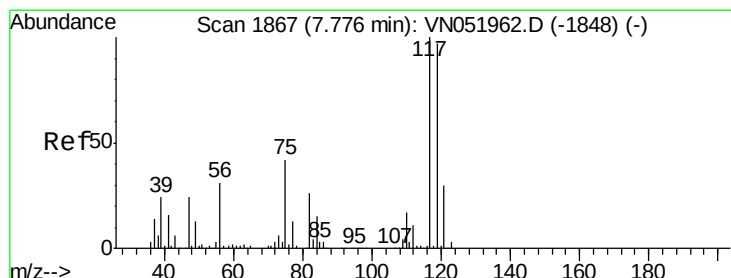
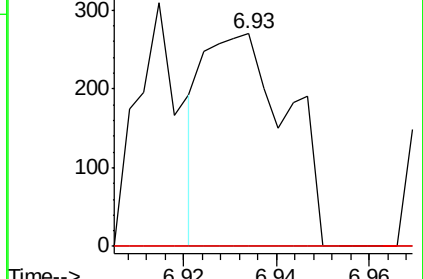
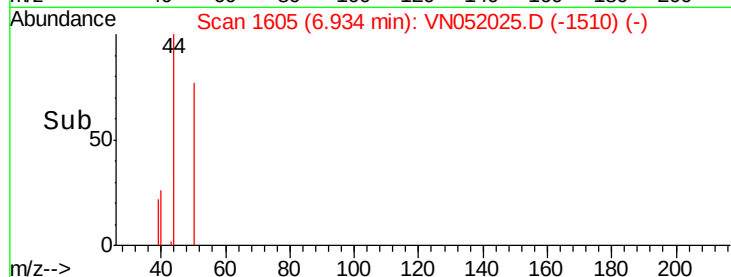


Abundance Ion 43.00 (42.70 to 43.70): VN051962.D (-1592) (-)

Ion 60.90 (60.60 to 61.60): VN051962.D (-1592) (-)

Ion 70.00 (69.70 to 70.70): VN051962.D (-1592) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 6.854 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052025.D

Acq: 26 Oct 2018 13:53

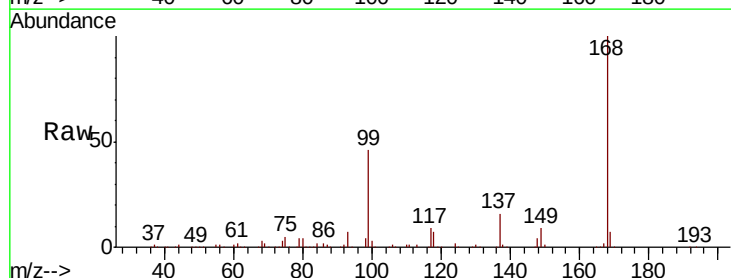
Tgt Ion: 117 Resp: 107430

Ion Ratio Lower Upper

117 100

119 4.8 77.4 116.0#

121 0.0 24.2 36.4#

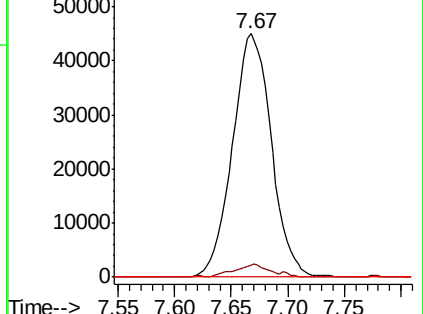
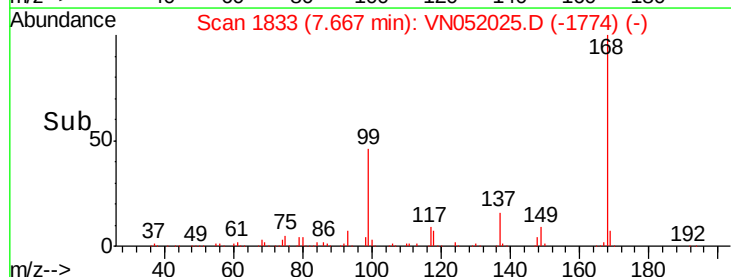


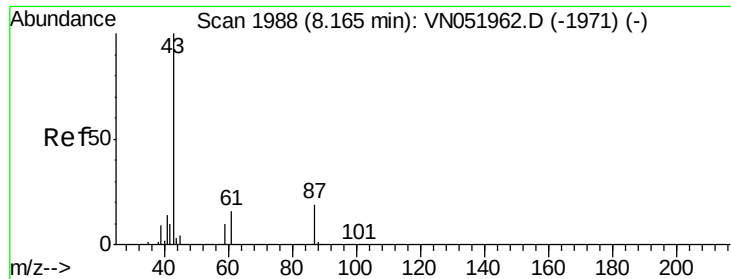
Abundance Ion 116.80 (116.50 to 117.50): VN051962.D (-1848) (-)

Ion 118.80 (118.50 to 119.50): VN051962.D (-1848) (-)

Ion 120.80 (120.50 to 121.50): VN051962.D (-1848) (-)

Time-->





#43

Isopropyl Acetate

Concen: 32.579 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052025.D

Acq: 26 Oct 2018 13:53

Instrument :

MSVOA_N

ClientSampleId :

PB114195ZHE#02

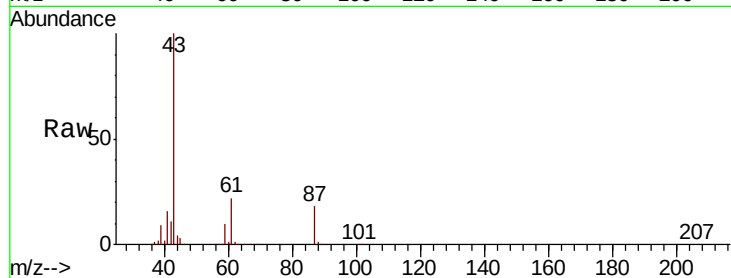
Tot Ion: 43 Resp: 372513

Ion Ratio Lower Upper

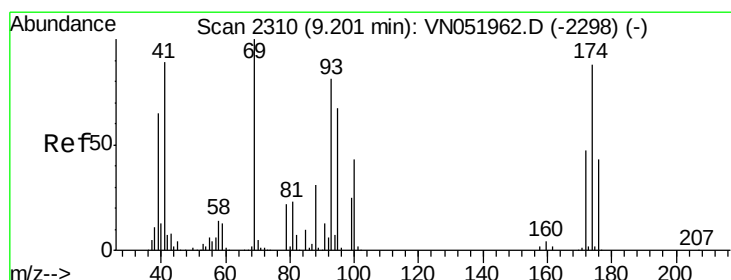
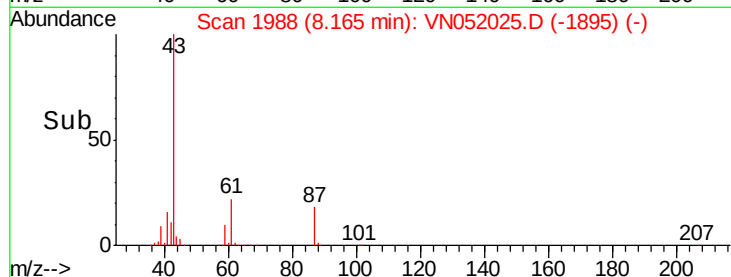
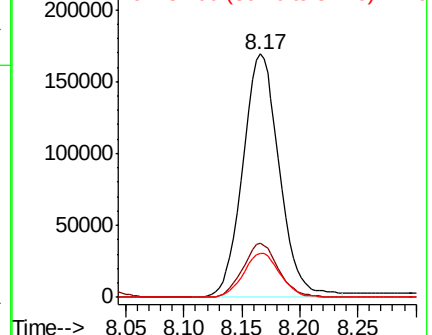
43 100

61 21.6 17.2 25.8

87 18.1 15.2 22.8



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



#48

Methyl methacrylate

Concen: 0.849 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN052025.D

Acq: 26 Oct 2018 13:53

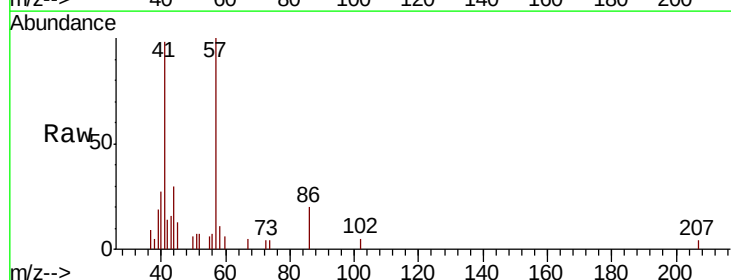
Tgt Ion: 41 Resp: 4692

Ion Ratio Lower Upper

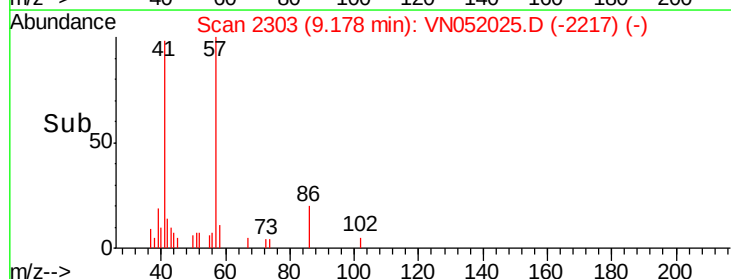
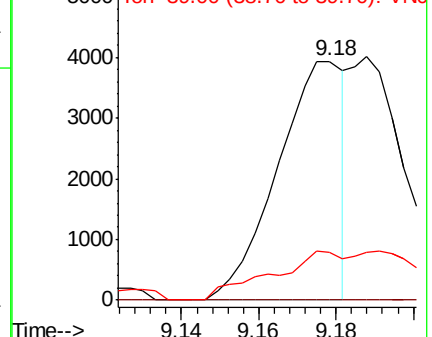
41 100

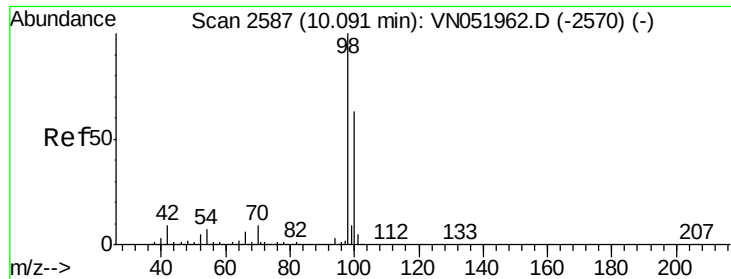
69 0.0 92.2 138.4#

39 21.9 60.2 90.4#



Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052025.D

Acq: 26 Oct 2018 13:53

Instrument :

MSVOA_N

ClientSampleId :

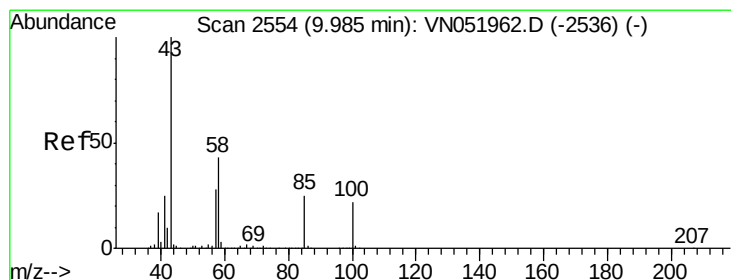
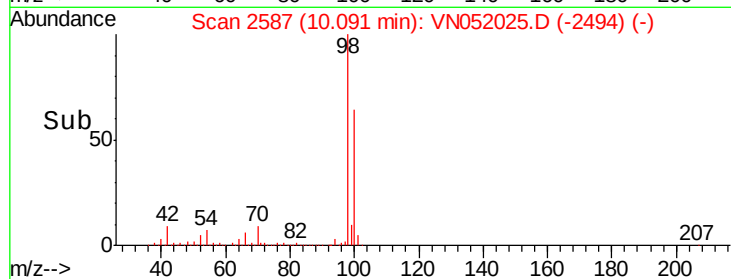
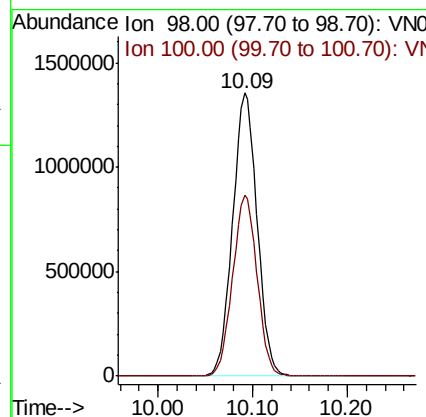
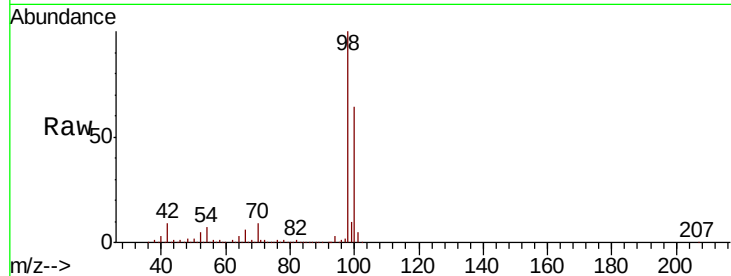
PB114195ZHE#02

Tot Ion: 98 Resp: 2436215

Ion Ratio Lower Upper

98 100

100 63.7 50.7 76.1



#51

4-Methyl-2-Pentanone

Concen: 0.249 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN052025.D

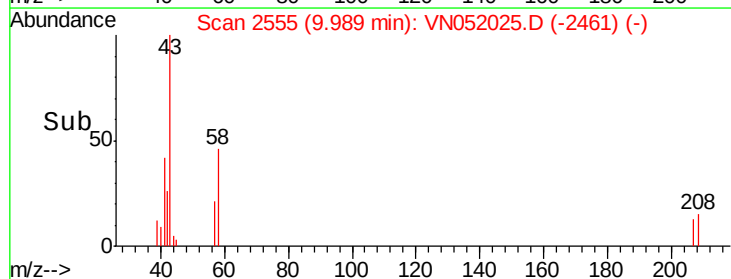
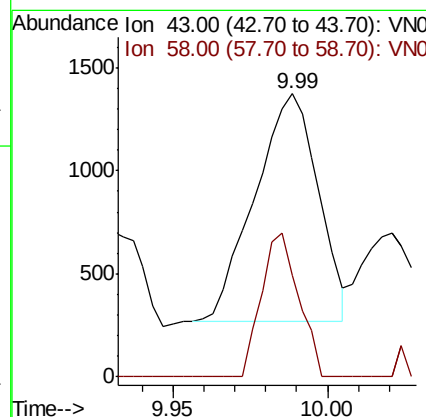
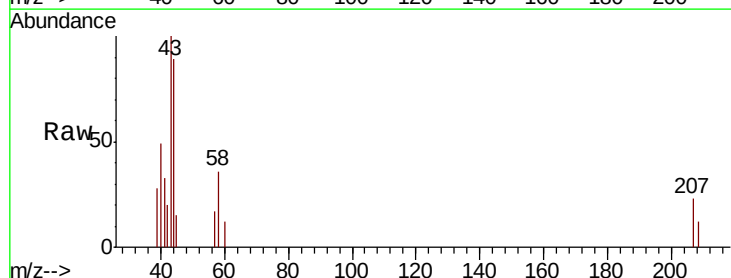
Acq: 26 Oct 2018 13:53

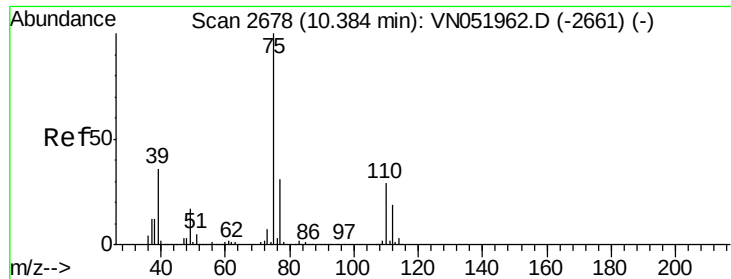
Tgt Ion: 43 Resp: 1569

Ion Ratio Lower Upper

43 100

58 37.5 34.8 52.2

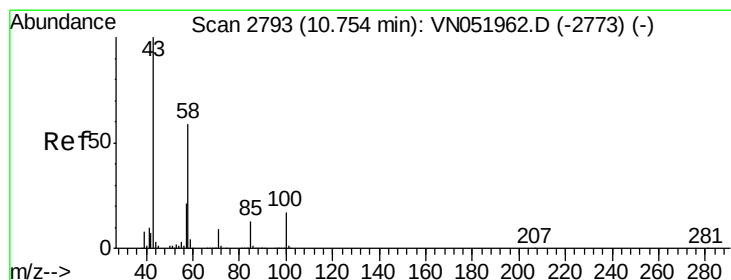
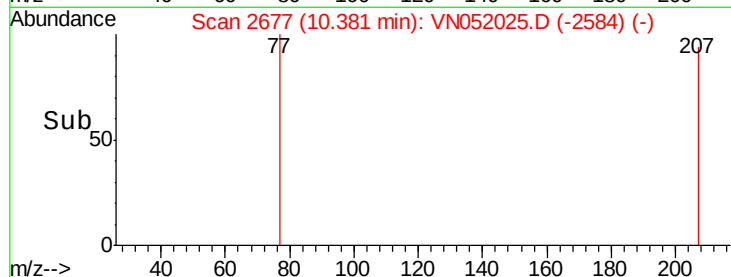
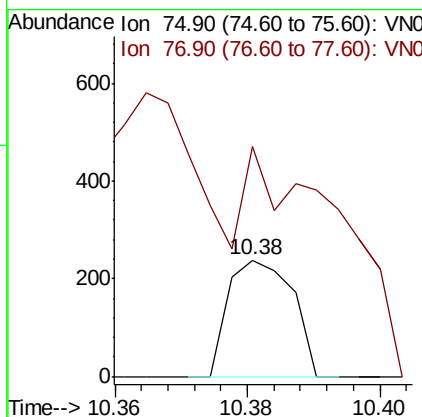
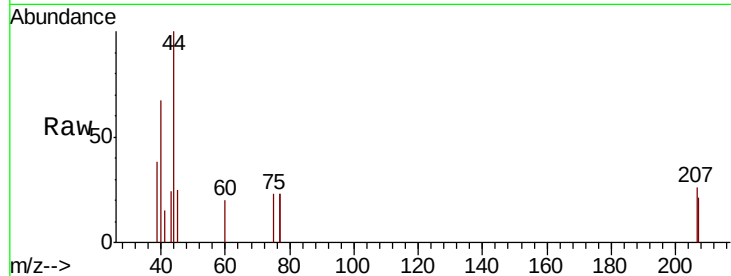




#53
t-1,3-Dichloropropene
Concen: 1.255 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN052025.D
Acq: 26 Oct 2018 13:53

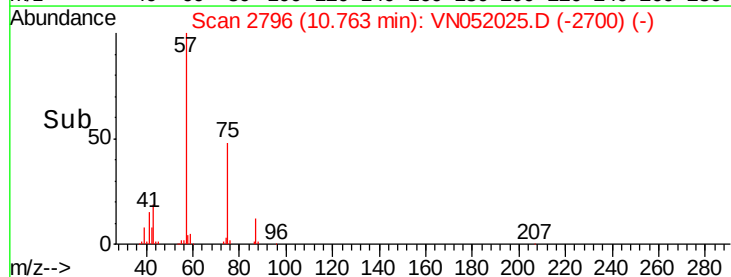
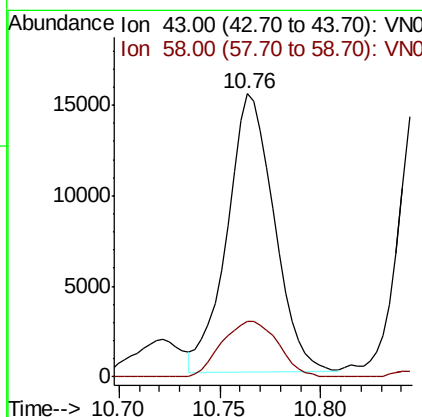
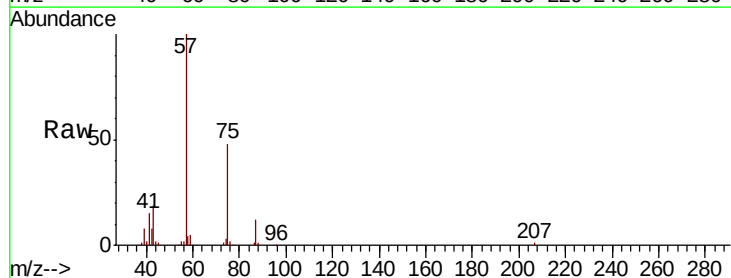
Instrument :
MSVOA_N
ClientSampleId :
PB114195ZHE#02

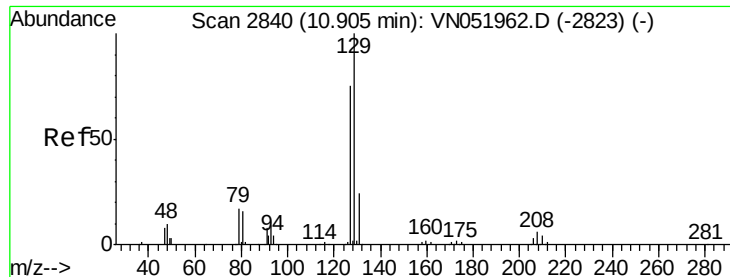
Tot Ion: 75 Resp: 160
Ion Ratio Lower Upper
75 100
77 54.2 25.0 37.4#



#59
2-Hexanone
Concen: 5.909 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052025.D
Acq: 26 Oct 2018 13:53

Tgt Ion: 43 Resp: 24969
Ion Ratio Lower Upper
43 100
58 23.9 29.9 89.8#





#60

Dibromochloromethane

Concen: 2.014 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.27 min

Lab File: VN052025.D

Acq: 26 Oct 2018 13:53

Instrument :

MSVOA_N

ClientSampleId :

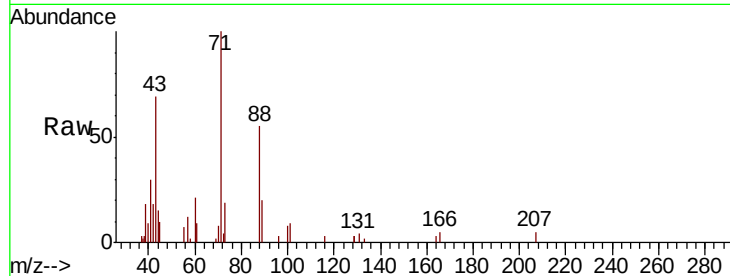
PB114195ZHE#02

Tot Ion:129 Resp: 486

Ion Ratio Lower Upper

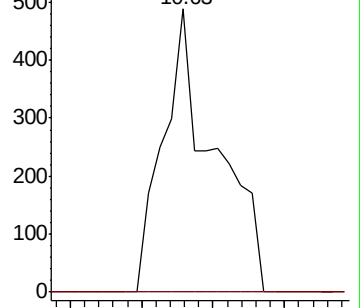
129 100

127 0.0 38.0 114.0#

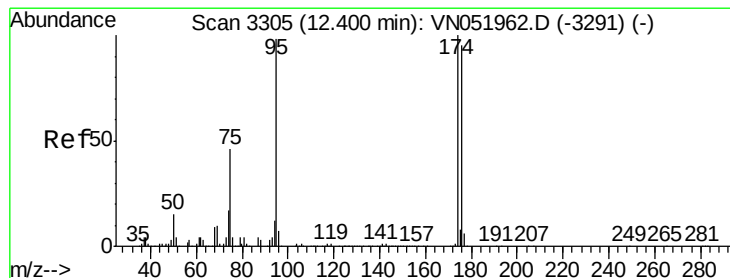
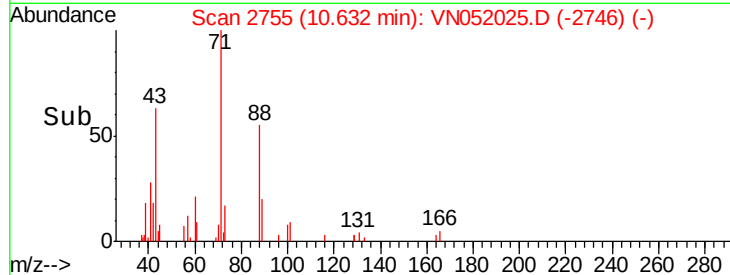


Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



Time-->



#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052025.D

Acq: 26 Oct 2018 13:53

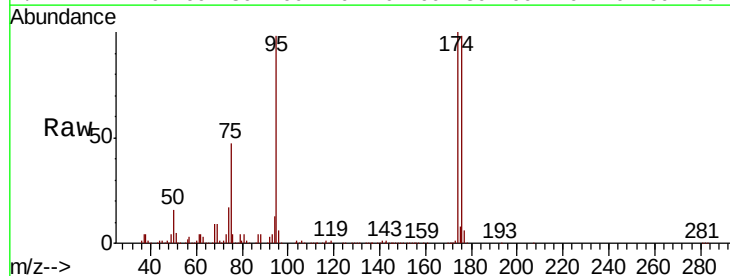
Tgt Ion: 95 Resp: 796818

Ion Ratio Lower Upper

95 100

174 103.4 0.0 206.0

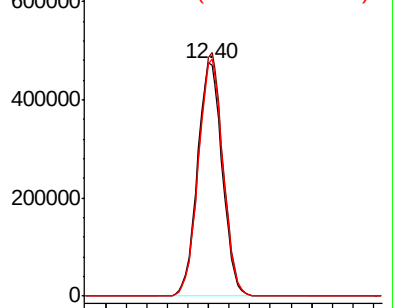
176 100.4 0.0 198.0



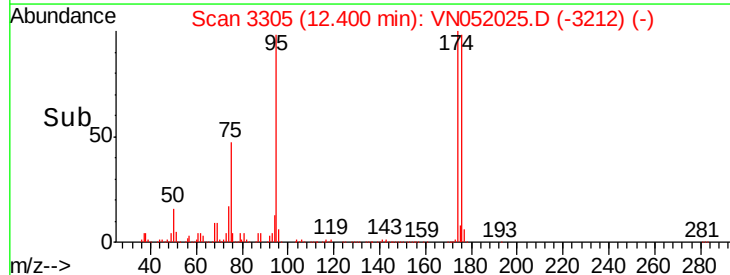
Abundance Ion 94.90 (94.60 to 95.60): V

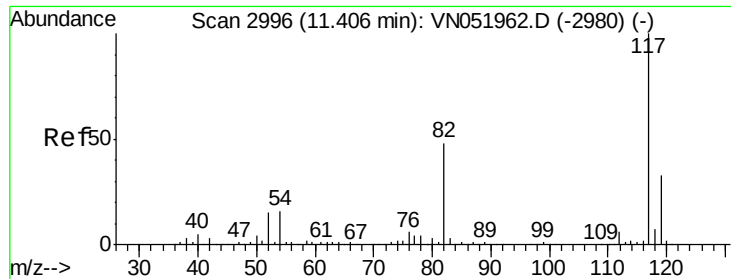
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time-->

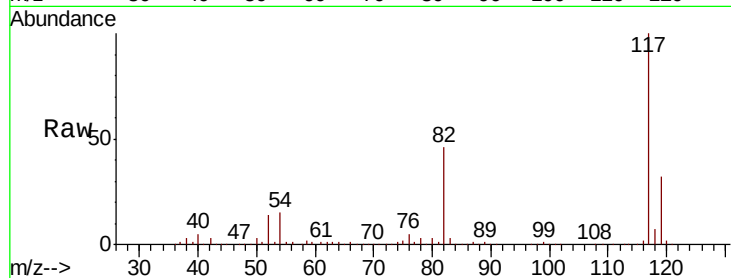




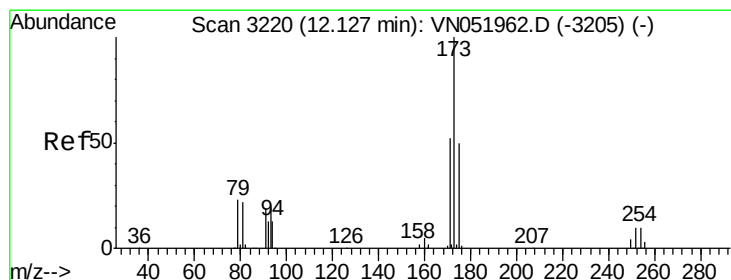
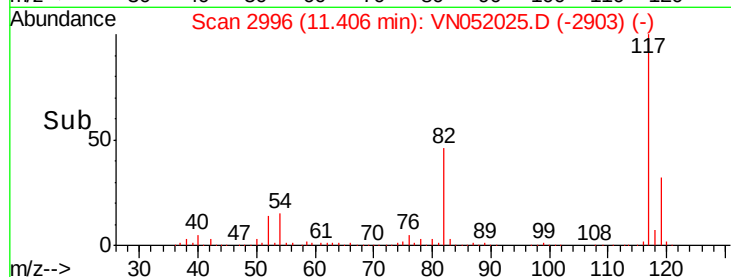
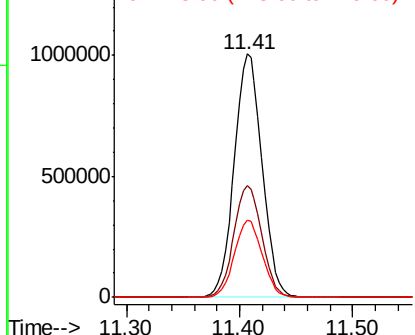
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052025.D
Acq: 26 Oct 2018 13:53

Instrument :
MSVOA_N
ClientSampleId :
PB114195ZHE#02

Tot Ion:117 Resp: 1720429
Ion Ratio Lower Upper
117 100
82 46.0 38.1 57.1
119 31.6 26.4 39.6

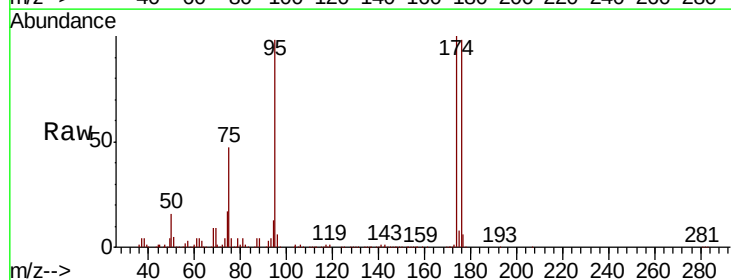


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

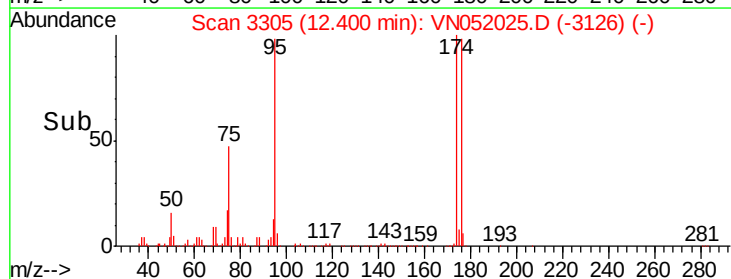
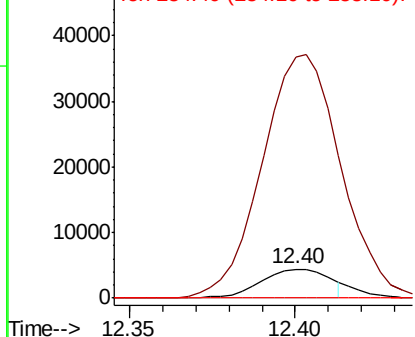


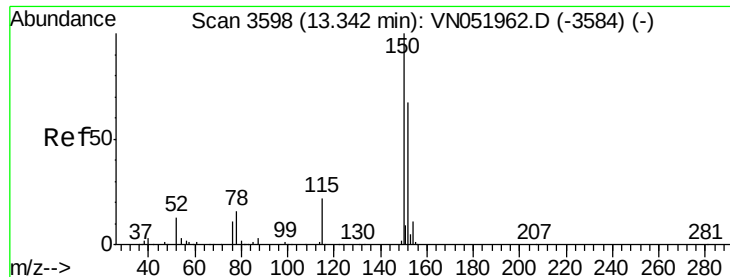
#71
Bromoform
Concen: 4.328 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN052025.D
Acq: 26 Oct 2018 13:53

Tgt Ion:173 Resp: 6335
Ion Ratio Lower Upper
173 100
175 844.4 24.6 74.0#
254 0.0 0.1 0.1#



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052025.D

Acq: 26 Oct 2018 13:53

Instrument :

MSVOA_N

ClientSampleId :

PB114195ZHE#02

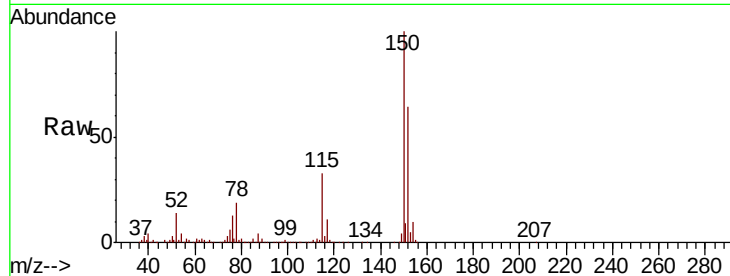
Tot Ion:152 Resp: 834061

Ion Ratio Lower Upper

152 100

115 52.5 25.8 77.3

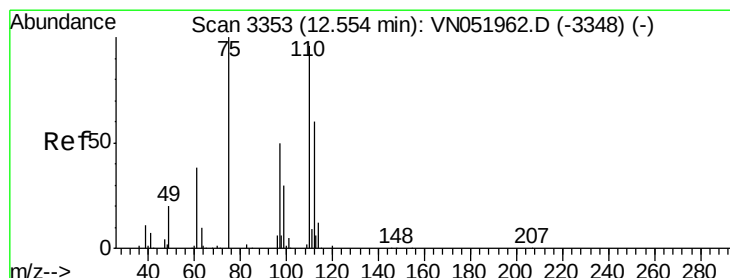
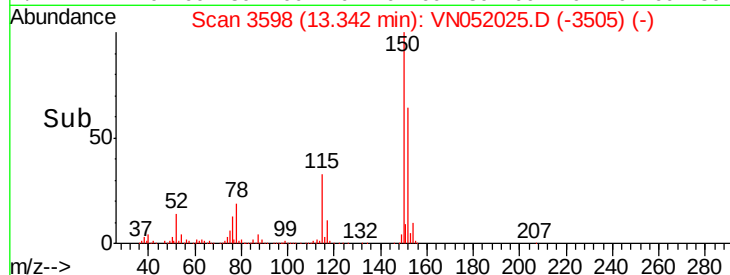
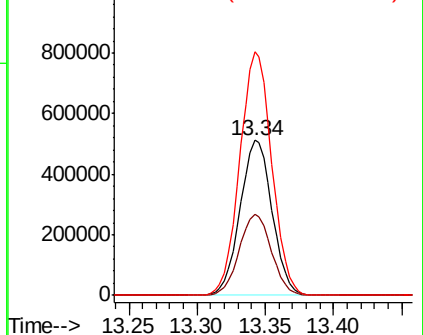
150 156.2 0.0 344.4



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: 44.582 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052025.D

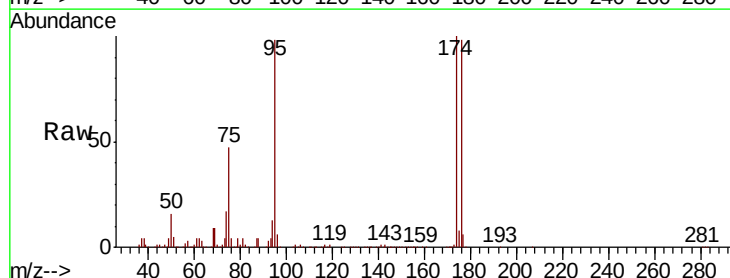
Acq: 26 Oct 2018 13:53

Tgt Ion: 75 Resp: 384091

Ion Ratio Lower Upper

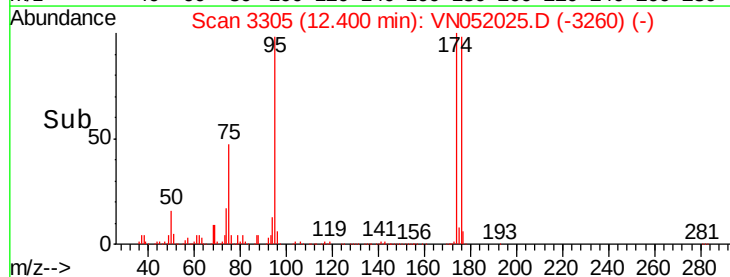
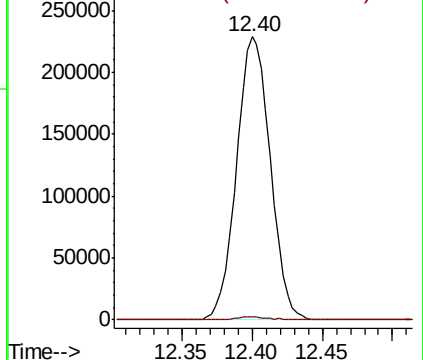
75 100

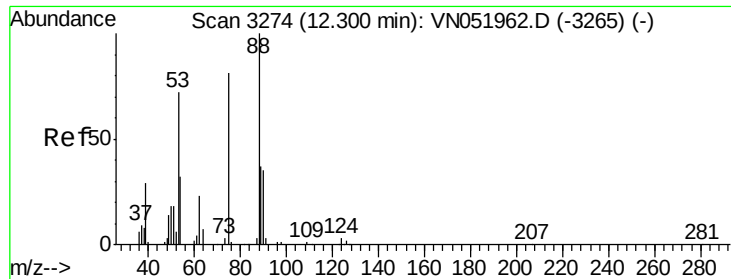
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

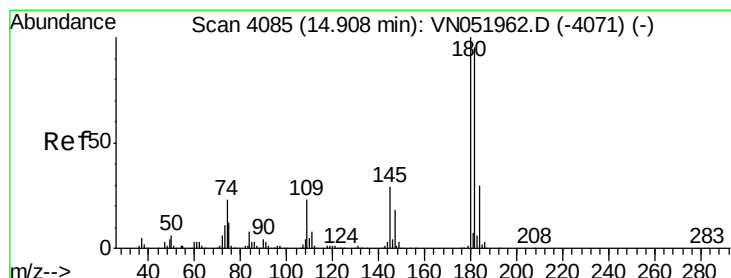
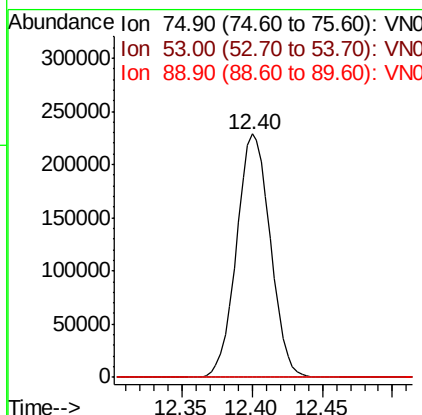
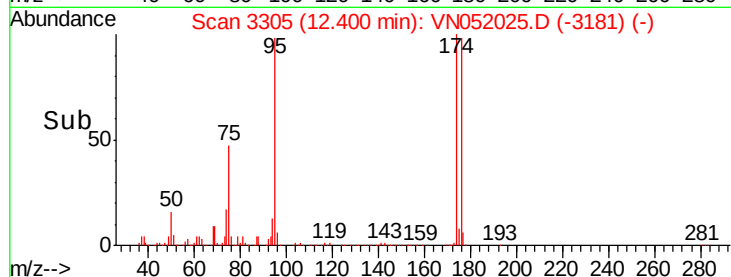
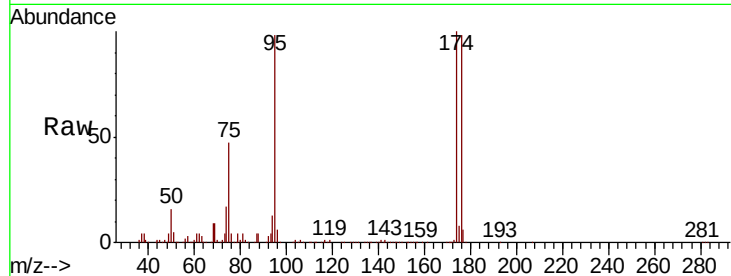




#81
 trans-1,4-Dichloro-2-butene
 Concen: 140.332 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN052025.D
 Acq: 26 Oct 2018 13:53

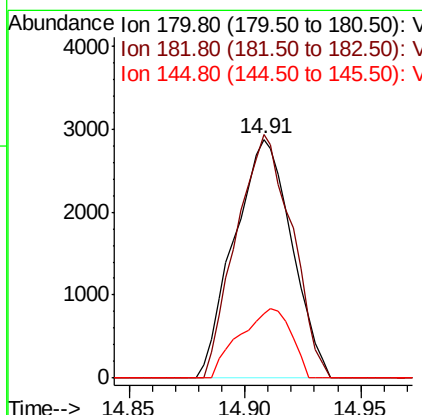
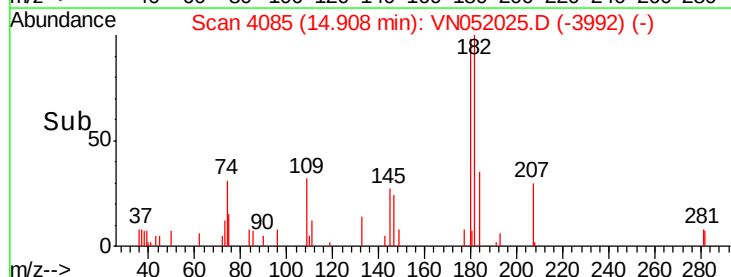
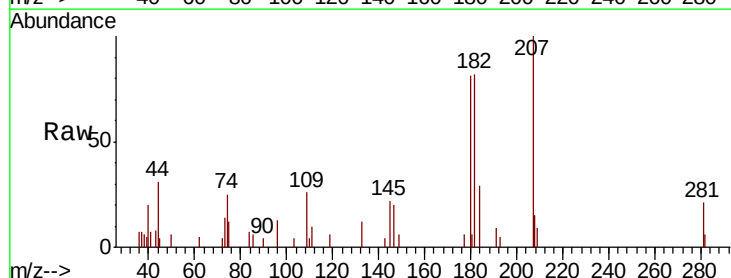
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114195ZHE#02

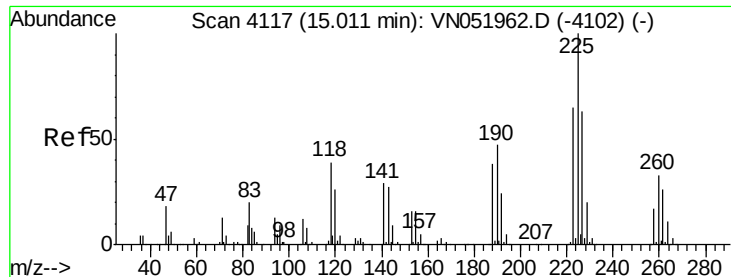
Tot Ion: 75 Resp: 384091
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.5 110.3#
 89 0.0 41.6 62.4#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.321 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN052025.D
 Acq: 26 Oct 2018 13:53

Tgt Ion: 180 Resp: 4942
 Ion Ratio Lower Upper
 180 100
 182 98.6 47.8 143.4
 145 26.2 14.5 43.5





#94

Hexachlorobutadiene

Concen: 0.259 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN052025.D

Acq: 26 Oct 2018 13:53

Instrument :

MSVOA_N

ClientSampleId :

PB114195ZHE#02

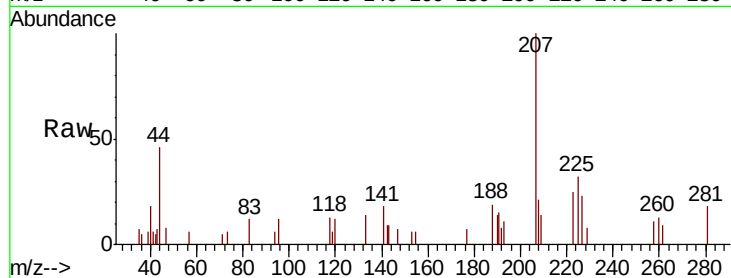
Tot Ion:225 Resp: 2050

Ion Ratio Lower Upper

225 100

223 59.7 31.8 95.4

227 66.6 31.4 94.2

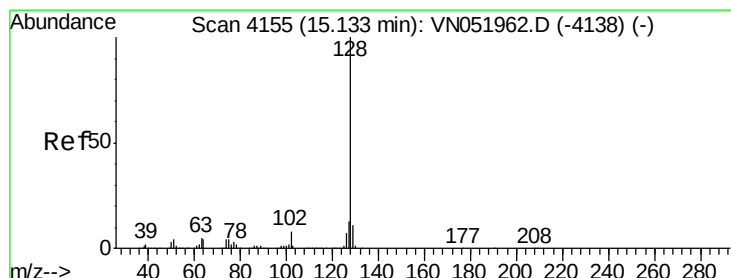
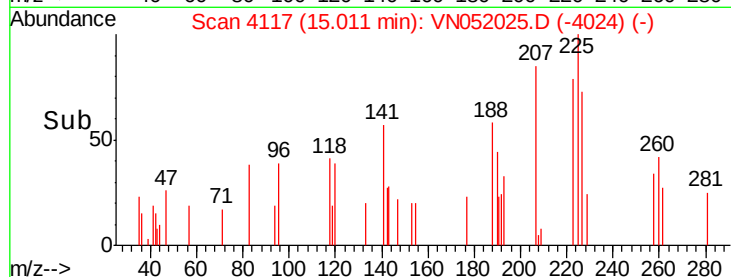
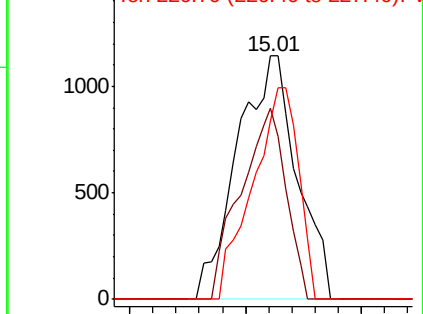


Abundance

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: 0.271 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN052025.D

Acq: 26 Oct 2018 13:53

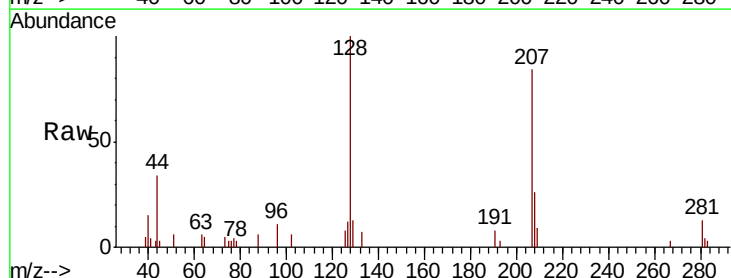
Tgt Ion:128 Resp: 9049

Ion Ratio Lower Upper

128 100

127 16.8 10.3 15.5#

129 10.8 8.6 13.0

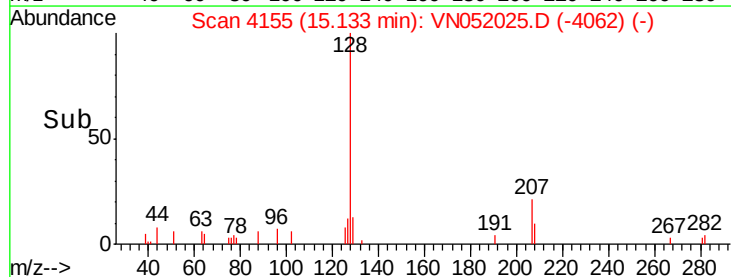
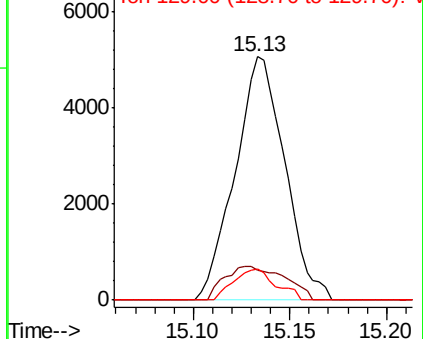


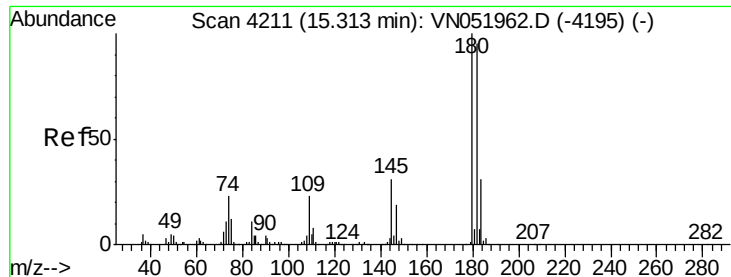
Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

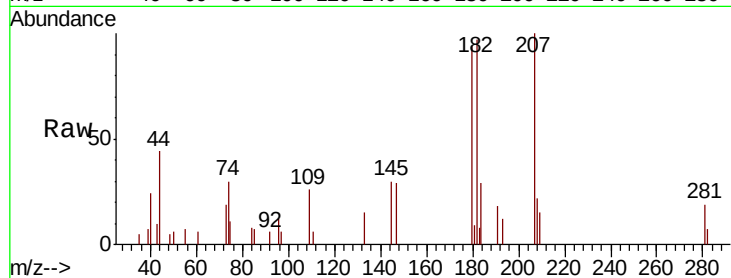




#96
 1,2,3-Trichlorobenzene
 Concen: 0.345 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN052025.D
 Acq: 26 Oct 2018 13:53

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114195ZHE#02

Tot Ion	Ratio	Lower	Upper
180	100		
182	103.4	47.9	143.6
145	36.8	15.4	46.2



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

