

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071919\
 Data File : VN056824.D
 Acq On : 19 Jul 2019 12:11
 Operator : JC/SP
 Sample : PB121463ZHE#10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB121463ZHE#10

Quant Time: Jul 19 23:13:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 07:03:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	246709	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	446637	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	484433	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	168550	50.00	ug/l	0.00

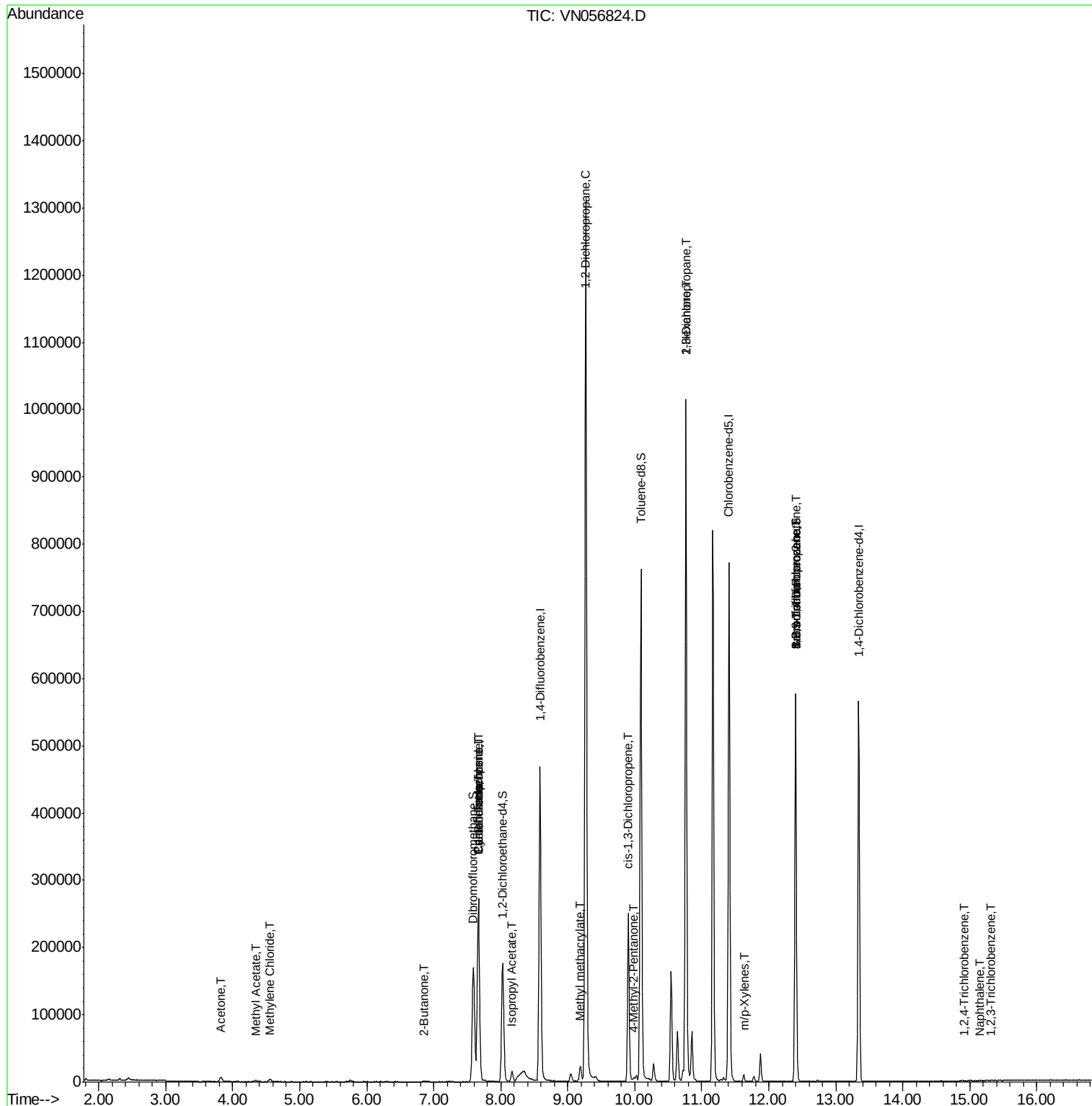
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	148304	54.34	ug/l	0.00
Spiked Amount			Recovery	=	108.68%	
35) Dibromofluoromethane	7.59	113	134689	48.46	ug/l	0.00
Spiked Amount			Recovery	=	96.92%	
50) Toluene-d8	10.09	98	572874	53.36	ug/l	0.00
Spiked Amount			Recovery	=	106.72%	
62) 4-Bromofluorobenzene	12.40	95	201897	55.77	ug/l	0.00
Spiked Amount			Recovery	=	111.54%	

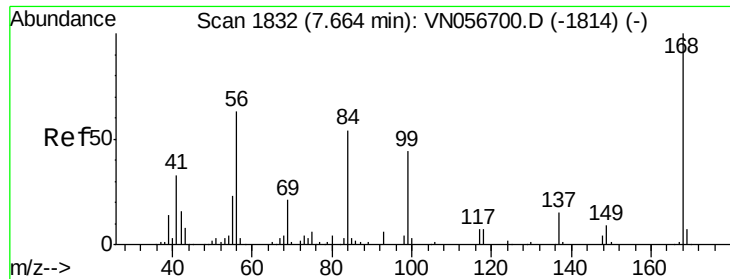
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	12566	9.992	ug/l	99
18) Methyl Acetate	4.34	43	4344	0.576	ug/l #	80
20) Methylene Chloride	4.55	84	2483	0.904	ug/l #	86
25) 2-Butanone	6.86	43	2230	1.213	ug/l #	87
31) Cyclohexane	7.67	56	4015	0.920	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	15445	3.737	ug/l #	48
38) Carbon Tetrachloride	7.67	117	21329	5.503	ug/l #	16
43) Isopropyl Acetate	8.17	43	17952	2.803	ug/l #	91
45) 1,2-Dichloropropane	9.27	63	1714	0.509	ug/l #	45
48) Methyl methacrylate	9.18	41	8535	2.756	ug/l #	13
51) 4-Methyl-2-Pentanone	9.99	43	4102	0.989	ug/l	91
54) cis-1,3-Dichloropropene	9.90	75	46704	9.735	ug/l #	62
57) 1,3-Dichloropropane	10.76	76	11059	2.147	ug/l #	42
59) 2-Hexanone	10.76	43	144413	48.524	ug/l #	51
68) m/p-Xylenes	11.63	106	2985	0.459	ug/l	92
71) Bromoform	12.40	173	1266	0.456	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	93511	25.366	ug/l #	100
79) 2-Chlorotoluene	12.40	91	465	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	93511	78.339	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.91	180	146	3.732	ug/l #	29
95) Naphthalene	15.14	128	455	4.571	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	237	3.391	ug/l #	65

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

```
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN071919\  
Data File : VN056824.D  
Acq On    : 19 Jul 2019 12:11  
Operator  : JC/SP  
Sample    : PB121463ZHE#10  
Misc      : 5.00mL/MSVOA N/WATER  
ALS Vial  : 7 Sample Multiplier: 1
```

Quant Time: Jul 19 23:13:00 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 16 07:03:34 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056824.D

Acq: 19 Jul 2019 12:11

Instrument :

MSVOA_N

ClientSampleId :

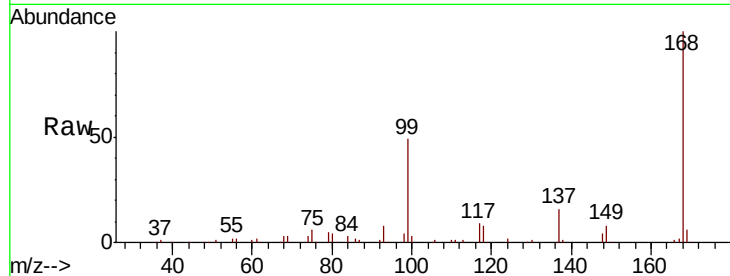
PB121463ZHE#10

Tot Ion:168 Resp: 246709

Ion Ratio Lower Upper

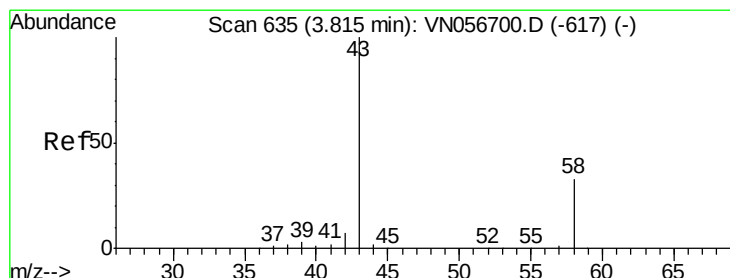
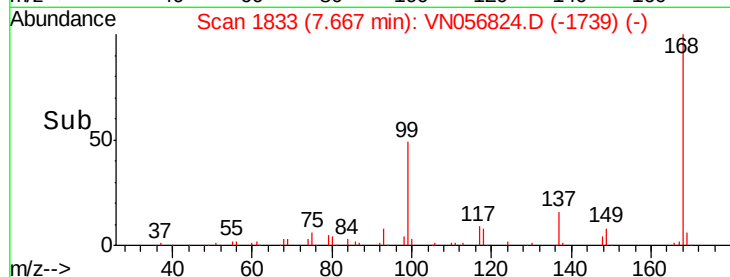
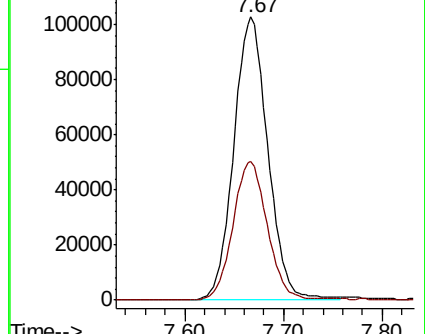
168 100

99 49.0 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 9.992 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056824.D

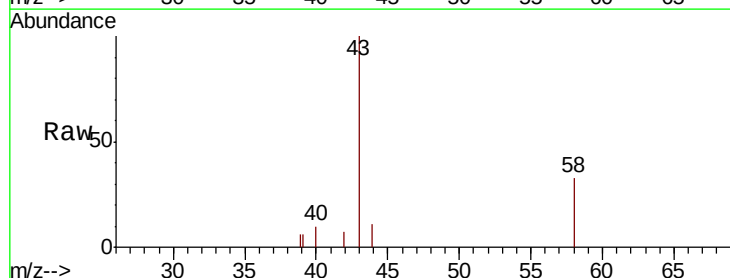
Acq: 19 Jul 2019 12:11

Tgt Ion: 43 Resp: 12566

Ion Ratio Lower Upper

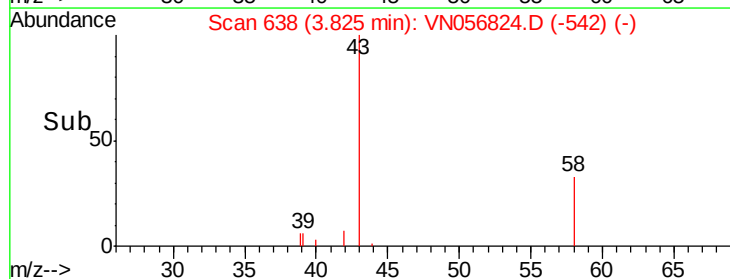
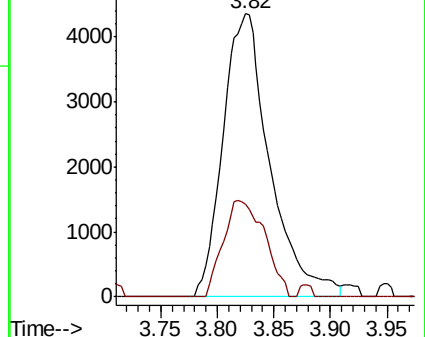
43 100

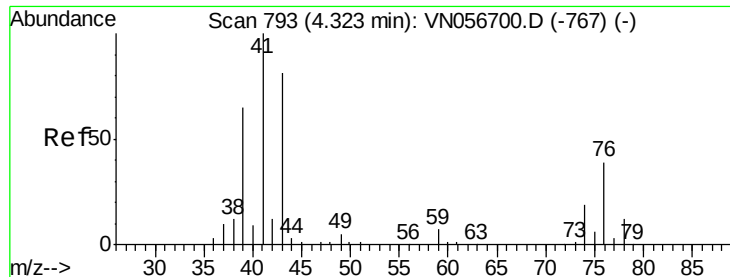
58 32.8 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

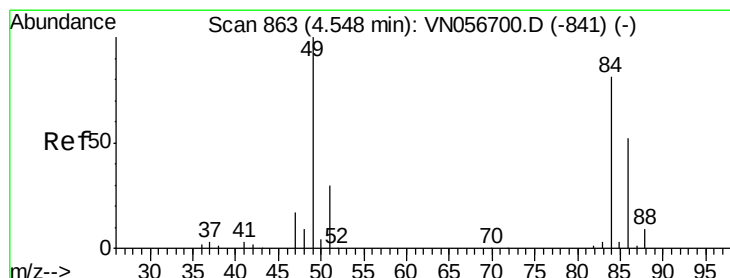
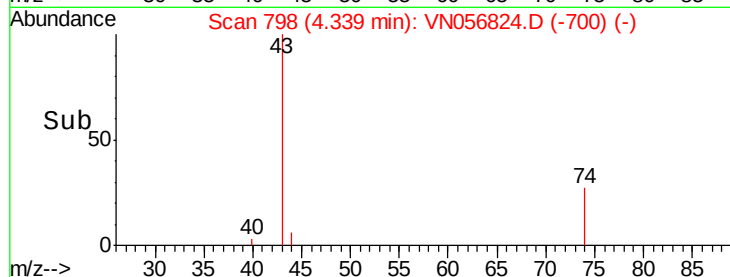
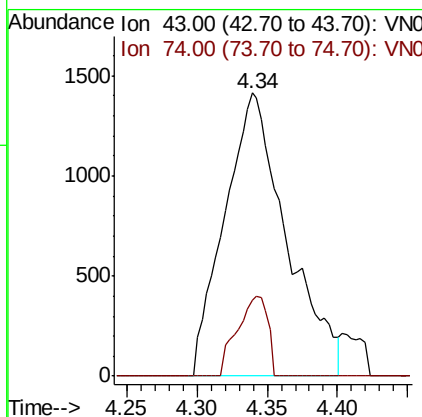
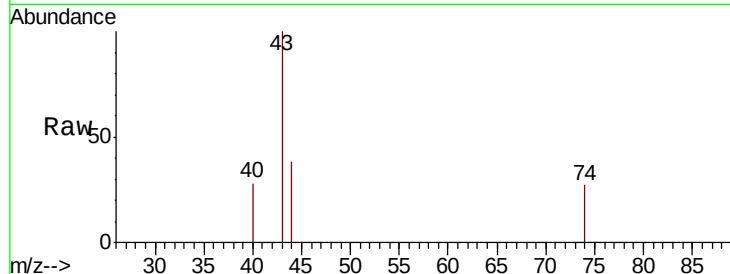




#18
Methyl Acetate
Concen: 0.576 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.02 min
Lab File: VN056824.D
Acq: 19 Jul 2019 12:11

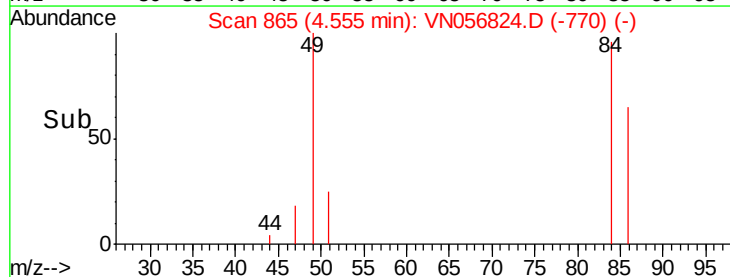
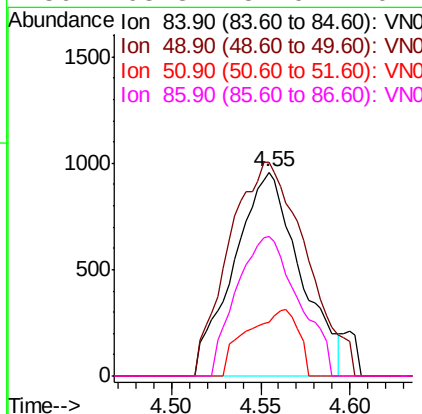
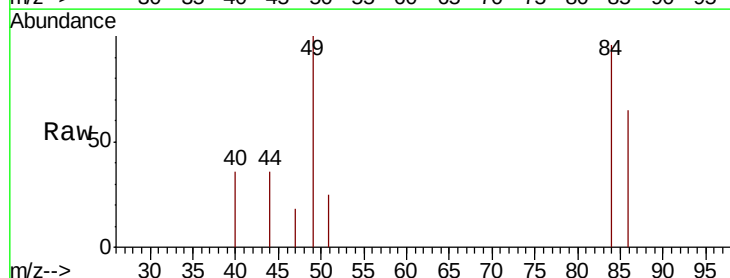
Instrument :
MSVOA_N
ClientSampleId :
PB121463ZHE#10

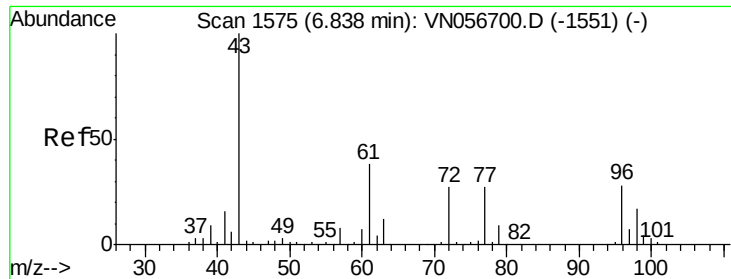
Tot Ion: 43 Resp: 4344
Ion Ratio Lower Upper
43 100
74 13.9 18.9 28.3#



#20
Methylene Chloride
Concen: 0.904 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.01 min
Lab File: VN056824.D
Acq: 19 Jul 2019 12:11

Tgt Ion: 84 Resp: 2483
Ion Ratio Lower Upper
84 100
49 104.5 98.2 147.4
51 26.6 29.6 44.4#
86 68.3 51.0 76.4

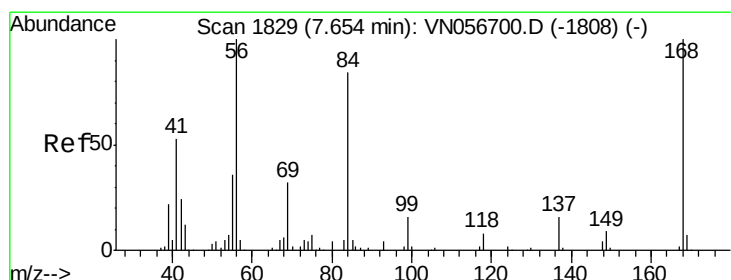
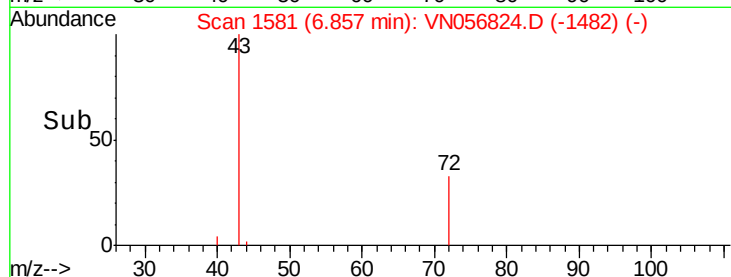
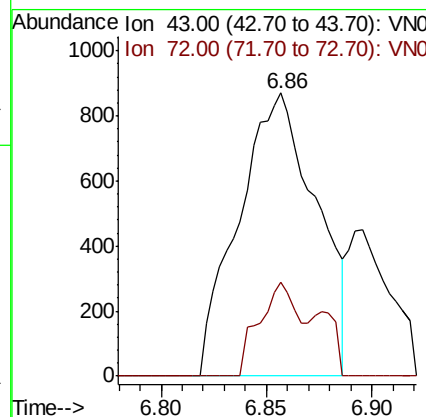
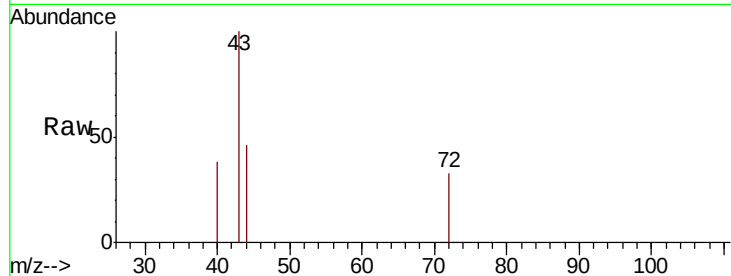




#25
2-Butanone
Concen: 1.213 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. 0.02 min
Lab File: VN056824.D
Acq: 19 Jul 2019 12:11

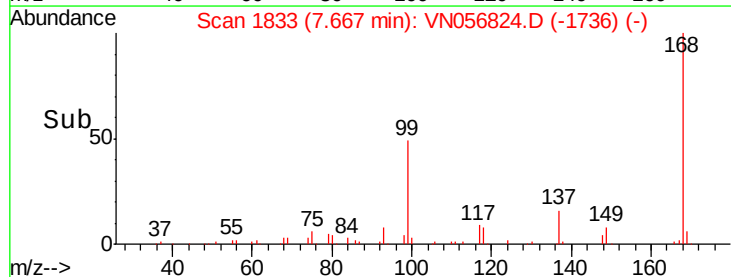
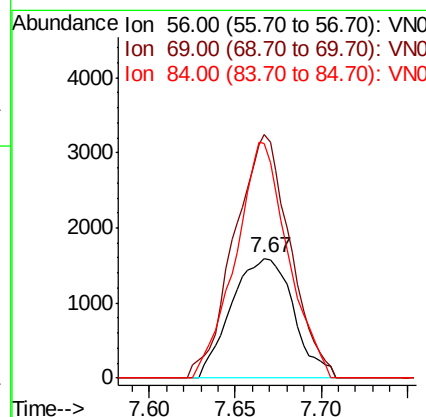
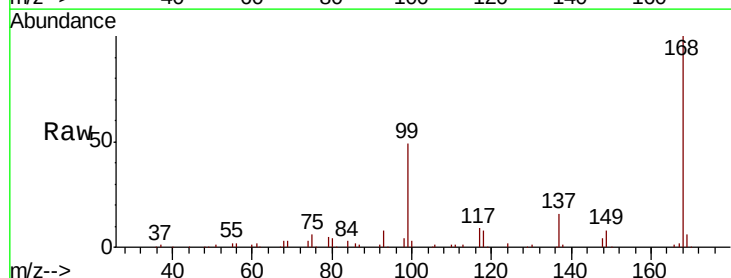
Instrument :
MSVOA_N
ClientSampleId :
PB121463ZHE#10

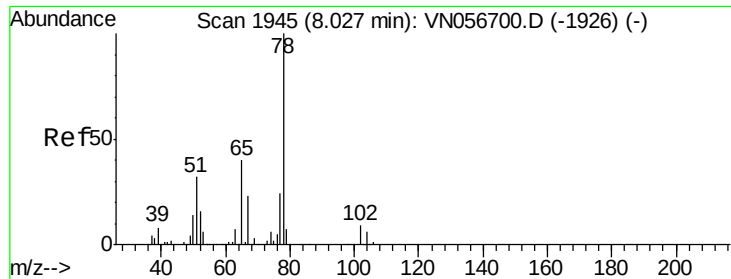
Tot Ion: 43 Resp: 2230
Ion Ratio Lower Upper
43 100
72 33.2 21.2 31.8#



#31
Cyclohexane
Concen: 0.920 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN056824.D
Acq: 19 Jul 2019 12:11

Tgt Ion: 56 Resp: 4015
Ion Ratio Lower Upper
56 100
69 203.3 25.8 38.8#
84 196.4 67.4 101.0#

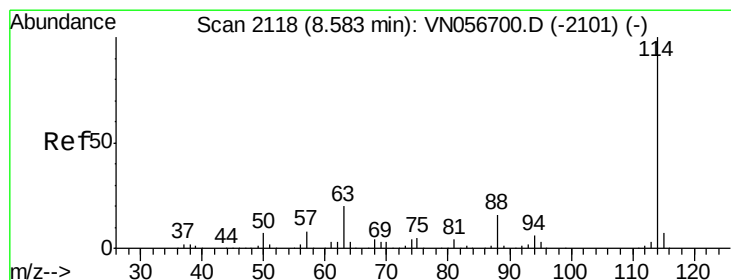
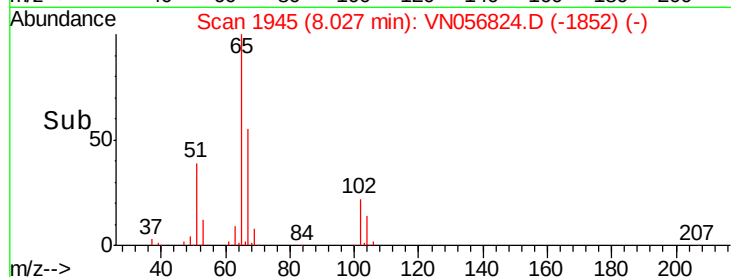
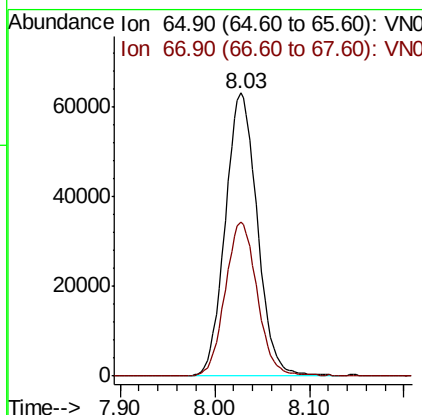
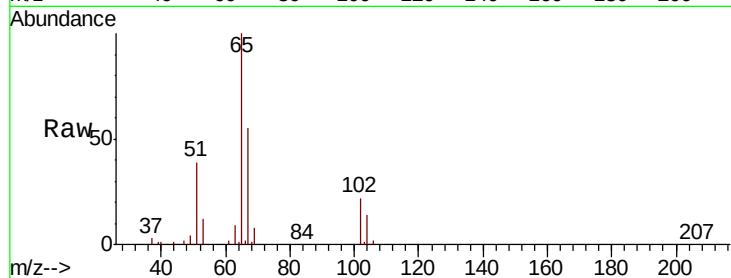




#33
 1,2-Dichloroethane-d4
 Concen: 54.345 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN056824.D
 Acq: 19 Jul 2019 12:11

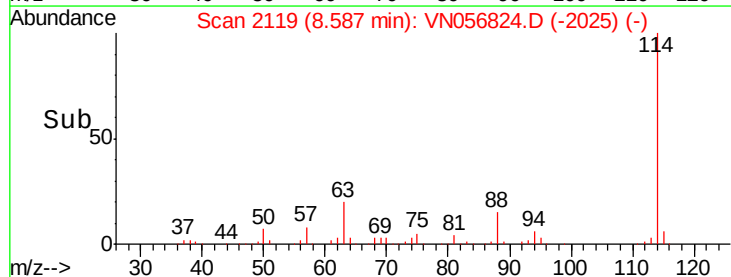
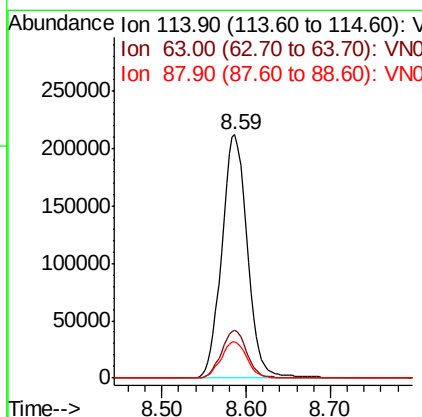
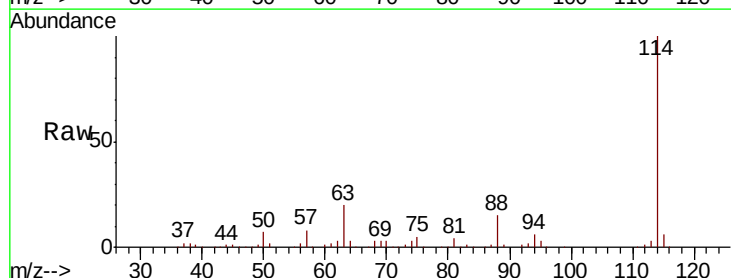
Instrument :
 MSVOA_N
 ClientSampleId :
 PB121463ZHE#10

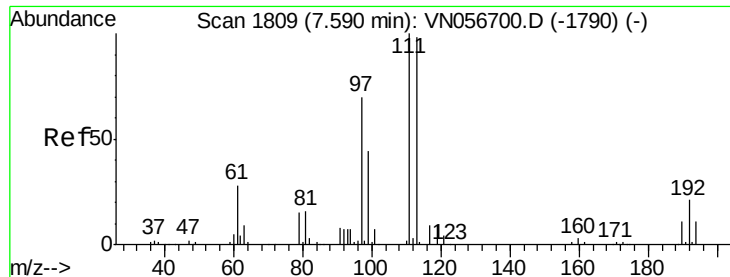
Tot Ion: 65 Resp: 148304
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056824.D
 Acq: 19 Jul 2019 12:11

Tgt Ion: 114 Resp: 446637
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.4
 88 14.9 0.0 31.2

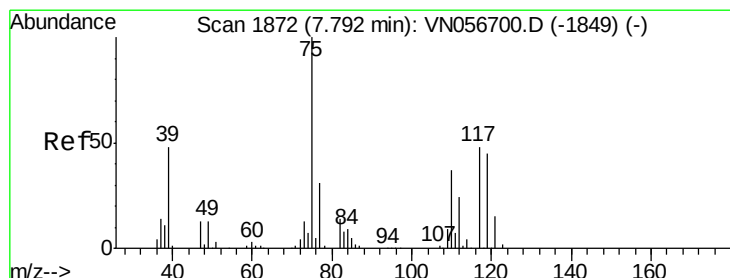
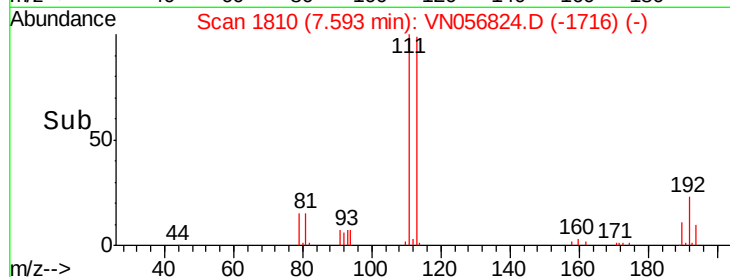
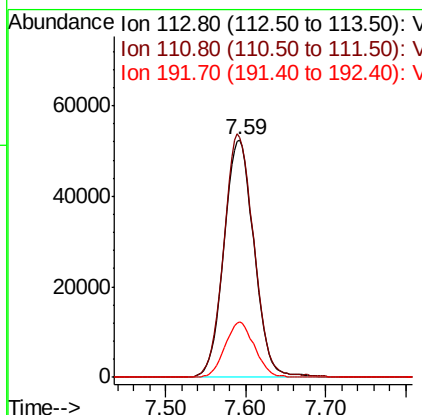
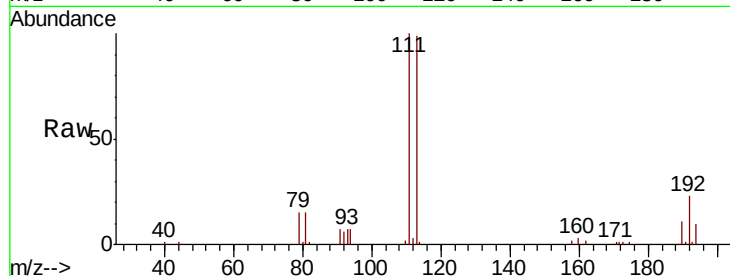




#35
 Dibromofluoromethane
 Concen: 48.458 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN056824.D
 Acq: 19 Jul 2019 12:11

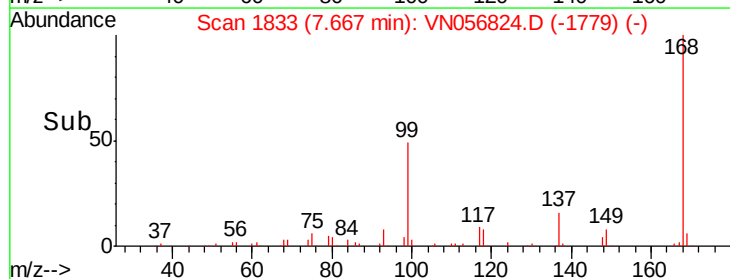
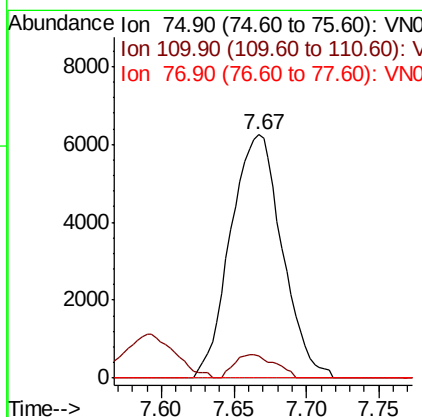
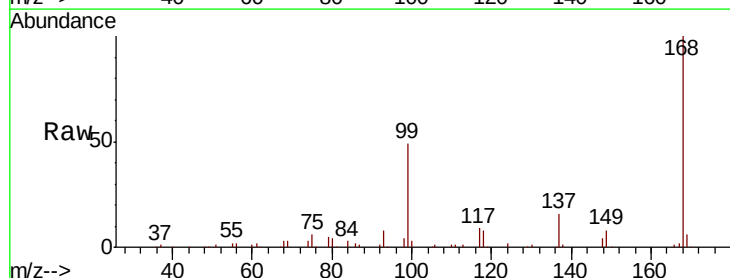
Instrument :
 MSVOA_N
 ClientSampleId :
 PB121463ZHE#10

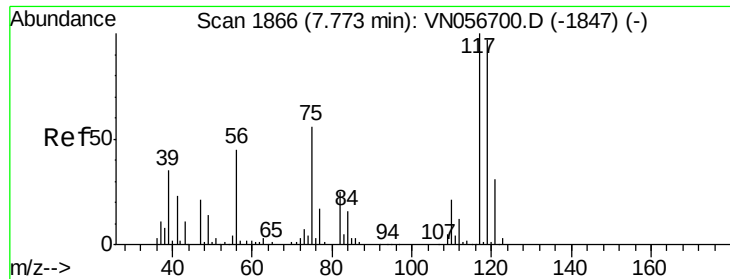
Tot Ion:113 Resp: 134689
 Ion Ratio Lower Upper
 113 100
 111 102.2 81.8 122.6
 192 22.9 17.5 26.3



#36
 1,1-Dichloropropene
 Concen: 3.737 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN056824.D
 Acq: 19 Jul 2019 12:11

Tgt Ion: 75 Resp: 15445
 Ion Ratio Lower Upper
 75 100
 110 7.6 18.4 55.4#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 5.503 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN056824.D

Acq: 19 Jul 2019 12:11

Instrument :

MSVOA_N

ClientSampleId :

PB121463ZHE#10

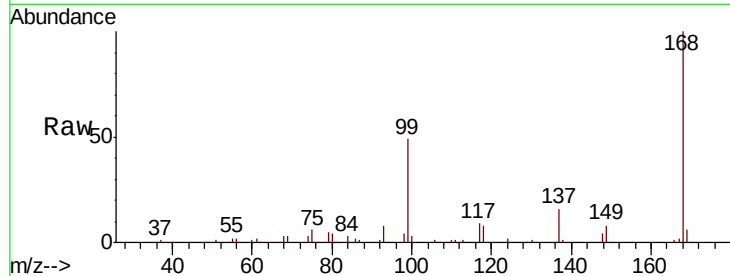
Tot Ion:117 Resp: 21329

Ion Ratio Lower Upper

117 100

119 5.1 77.5 116.3#

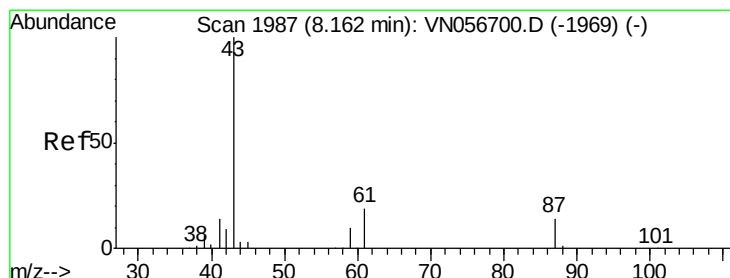
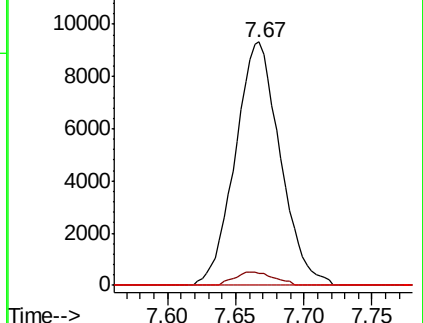
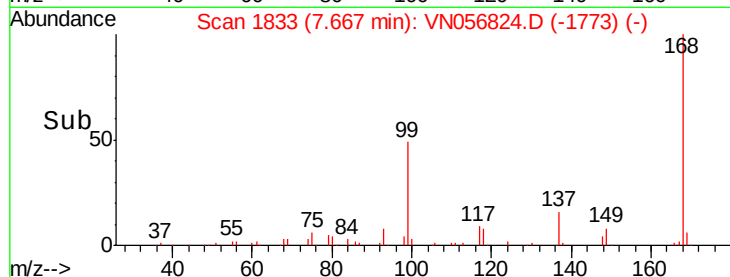
121 0.0 24.7 37.1#



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: 2.803 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN056824.D

Acq: 19 Jul 2019 12:11

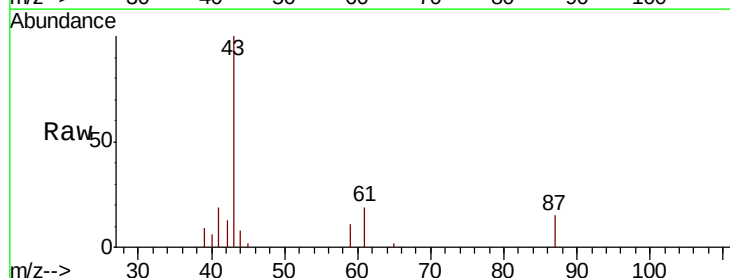
Tgt Ion: 43 Resp: 17952

Ion Ratio Lower Upper

43 100

61 20.6 22.3 33.5#

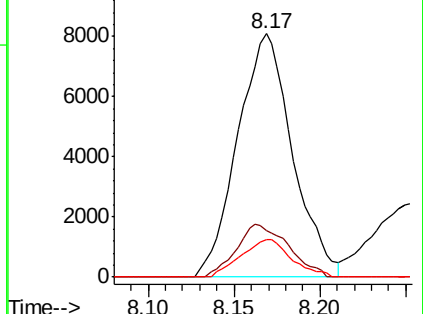
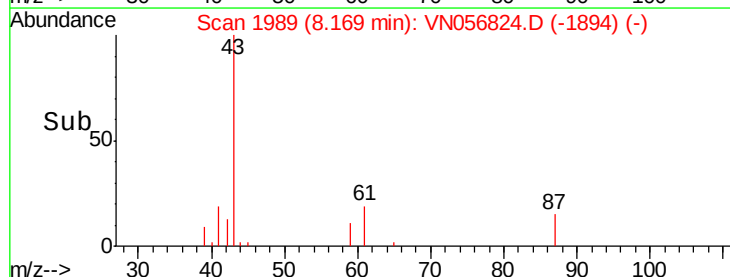
87 14.1 11.1 16.7

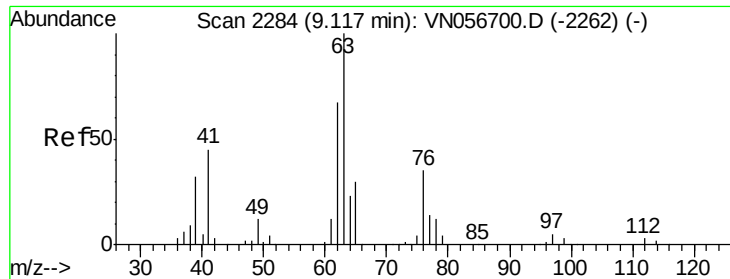


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

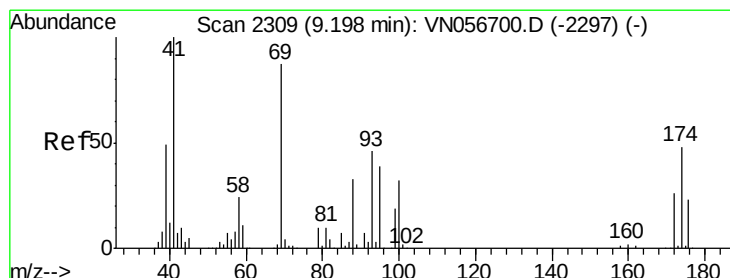
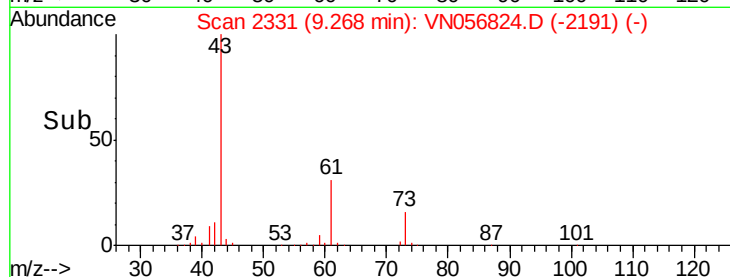
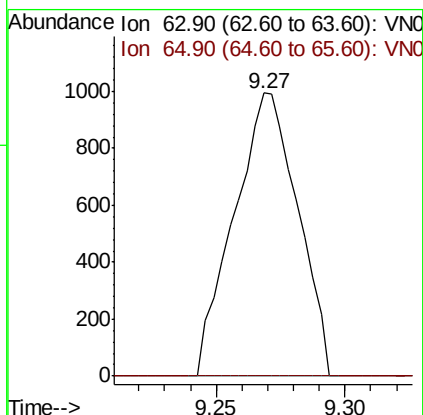
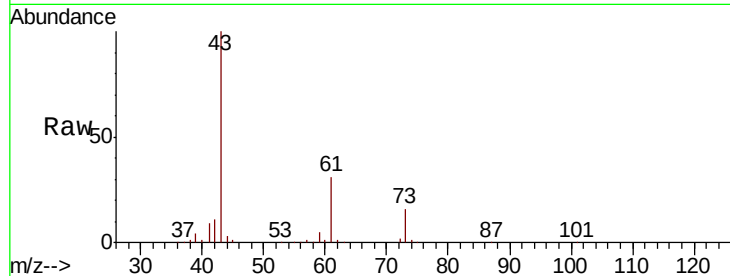




#45
 1,2-Dichloropropane
 Concen: 0.509 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN056824.D
 Acq: 19 Jul 2019 12:11

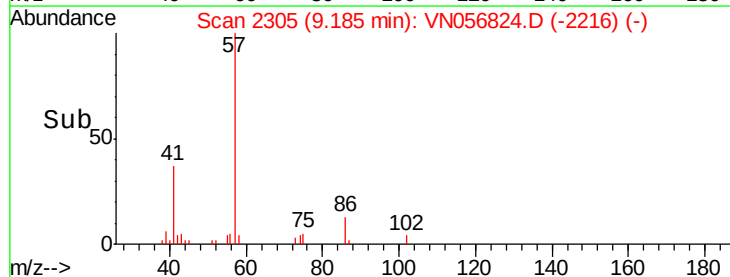
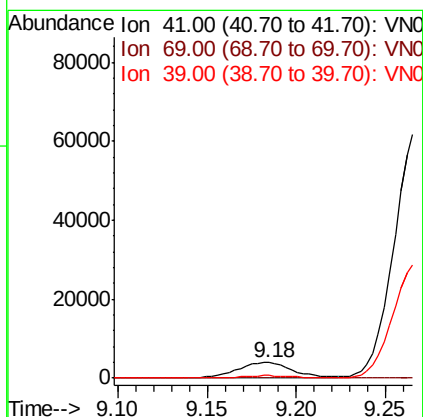
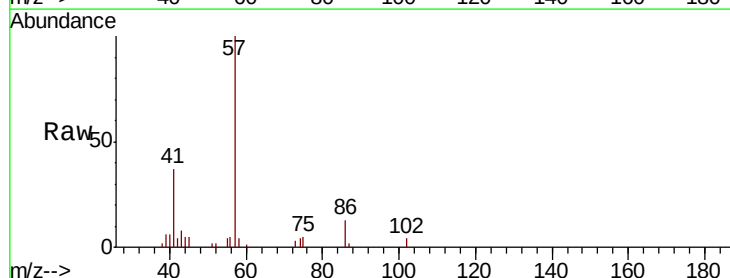
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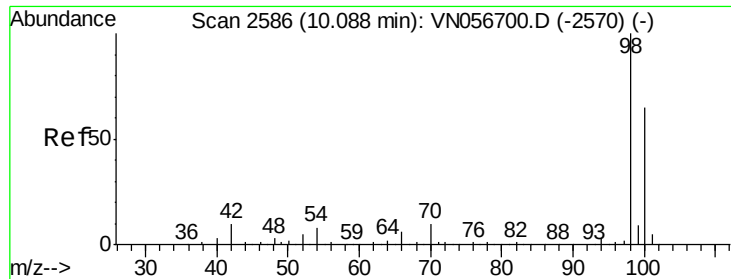
Tot Ion: 63 Resp: 1714
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.0 36.0#



#48
 Methyl methacrylate
 Concen: 2.756 ug/l
 RT: 9.18 min Scan# 2305
 Delta R.T. -0.01 min
 Lab File: VN056824.D
 Acq: 19 Jul 2019 12:11

Tgt Ion: 41 Resp: 8535
 Ion Ratio Lower Upper
 41 100
 69 0.0 71.4 107.0#
 39 0.0 41.2 61.8#

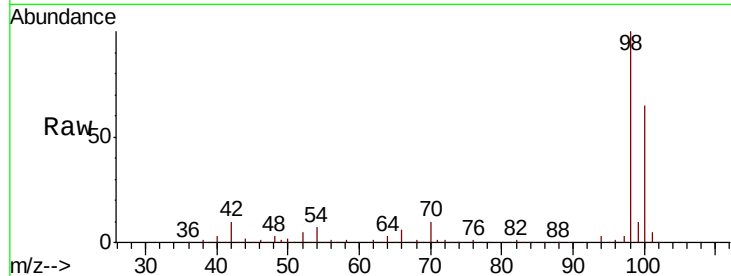




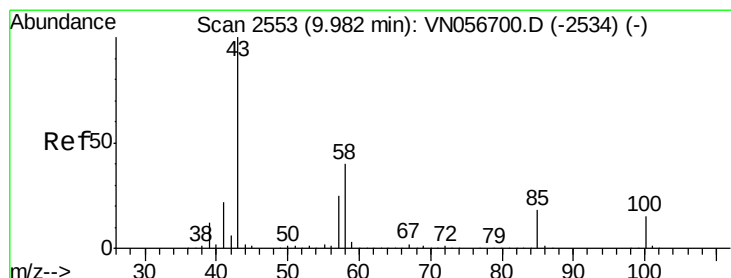
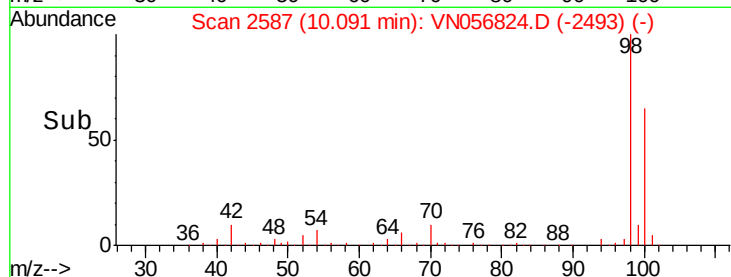
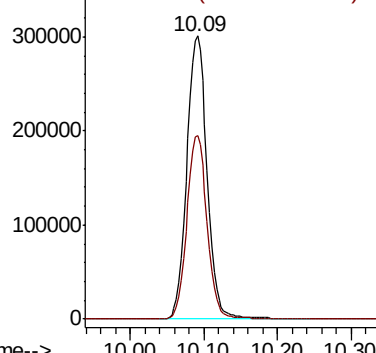
#50
Toluene-d8
Concen: 53.364 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN056824.D
Acq: 19 Jul 2019 12:11

Instrument :
MSVOA_N
ClientSampleId :
PB121463ZHE#10

Tot Ion: 98 Resp: 572874
Ion Ratio Lower Upper
98 100
100 64.8 52.0 78.0

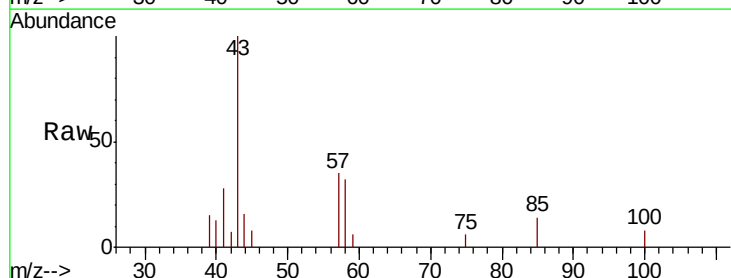


Abundance Ion 98.00 (97.70 to 98.70): VN056700.D
Ion 100.00 (99.70 to 100.70): VN056700.D

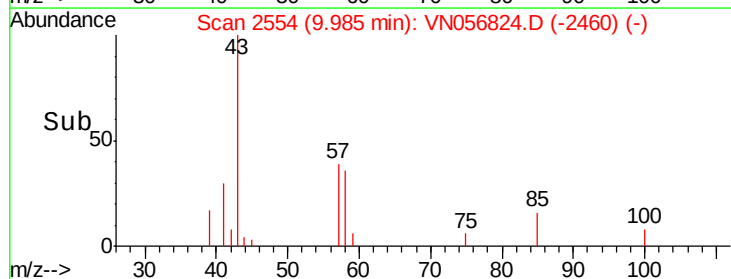
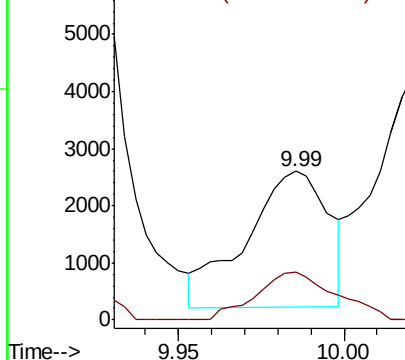


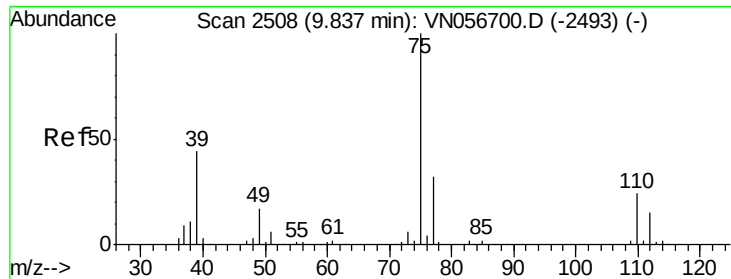
#51
4-Methyl-2-Pentanone
Concen: 0.989 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN056824.D
Acq: 19 Jul 2019 12:11

Tgt Ion: 43 Resp: 4102
Ion Ratio Lower Upper
43 100
58 34.5 32.0 48.0



Abundance Ion 43.00 (42.70 to 43.70): VN056700.D
Ion 58.00 (57.70 to 58.70): VN056700.D





#54

cis-1,3-Dichloropropene

Concen: 9.735 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN056824.D

Acq: 19 Jul 2019 12:11

Instrument :

MSVOA_N

ClientSampleId :

PB121463ZHE#10

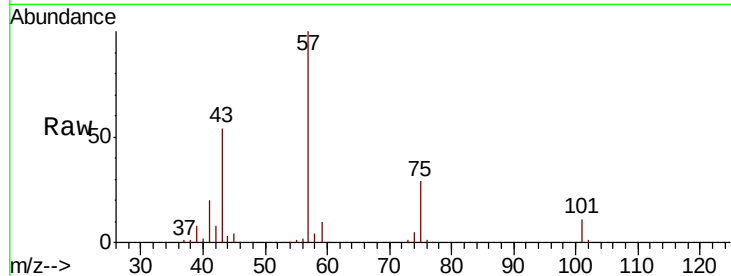
Tot Ion: 75 Resp: 46704

Ion Ratio Lower Upper

75 100

77 0.8 26.0 39.0#

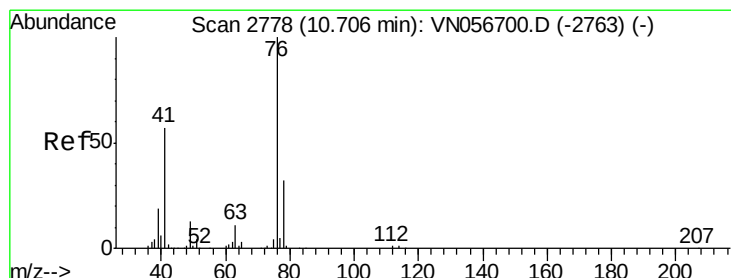
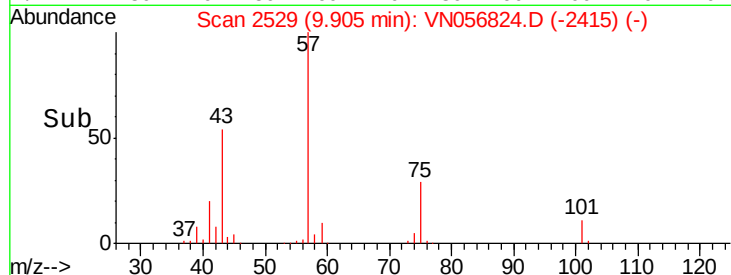
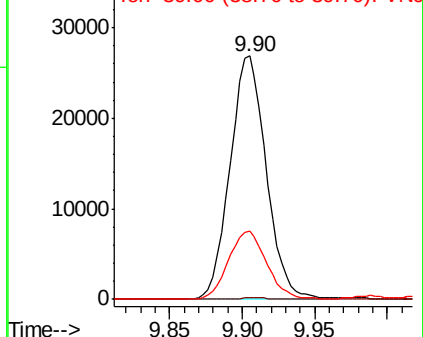
39 28.0 35.1 52.7#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 76.90 (76.60 to 77.60): VNO

Ion 39.00 (38.70 to 39.70): VNO



#57

1,3-Dichloropropane

Concen: 2.147 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN056824.D

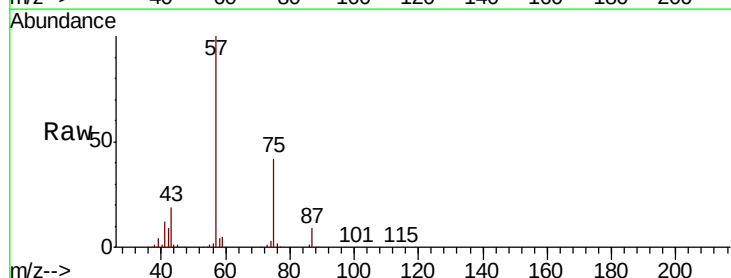
Acq: 19 Jul 2019 12:11

Tgt Ion: 76 Resp: 11059

Ion Ratio Lower Upper

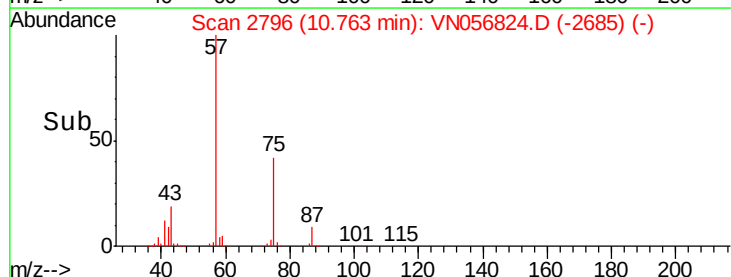
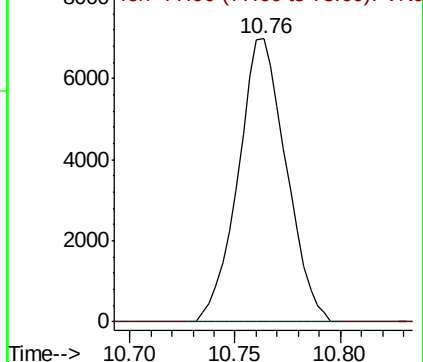
76 100

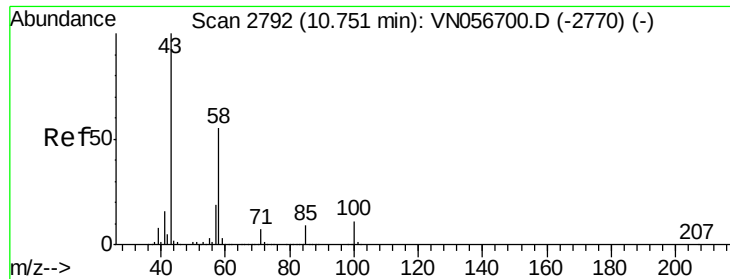
78 0.0 26.0 39.0#



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO

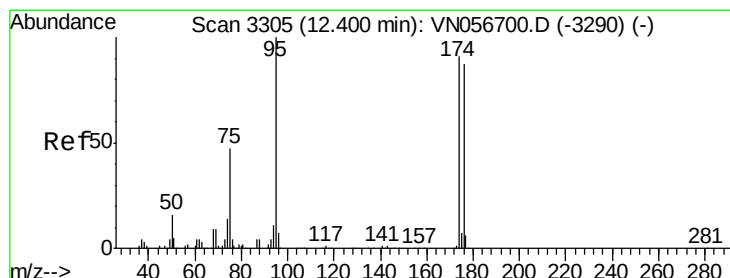
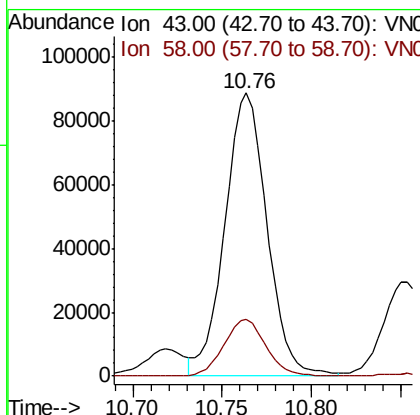
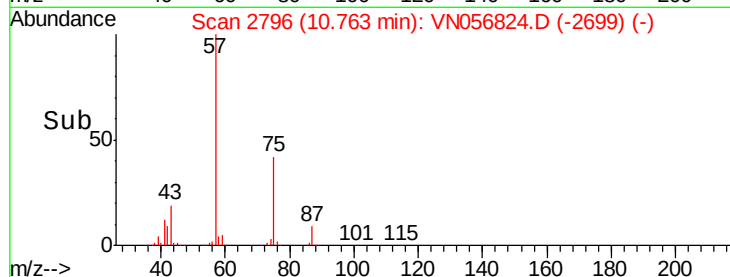
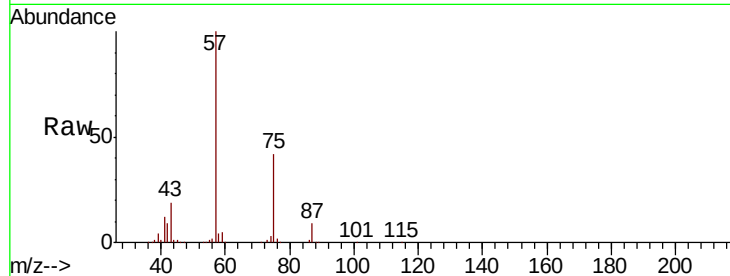




#59
2-Hexanone
Concen: 48.524 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN056824.D
Acq: 19 Jul 2019 12:11

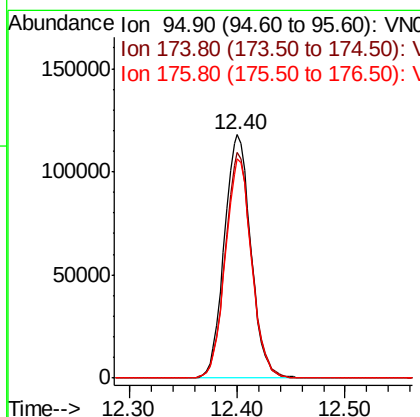
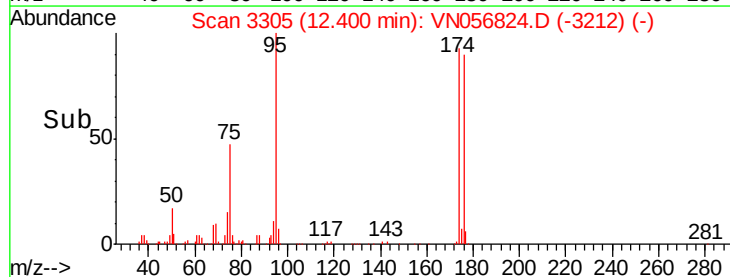
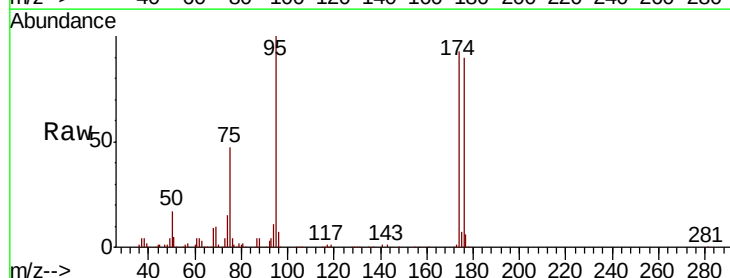
Instrument :
MSVOA_N
ClientSampleId :
PB121463ZHE#10

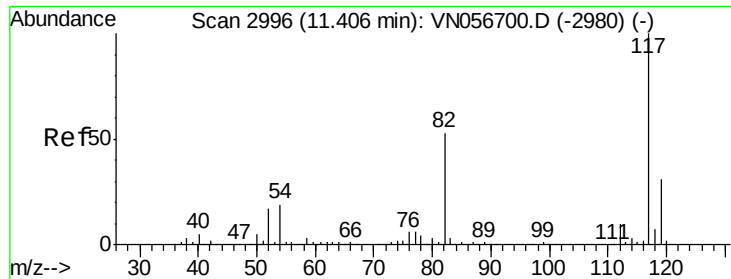
Tot Ion: 43 Resp: 144413
Ion Ratio Lower Upper
43 100
58 20.3 27.9 83.6#



#62
4-Bromofluorobenzene
Concen: 55.769 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056824.D
Acq: 19 Jul 2019 12:11

Tgt Ion: 95 Resp: 201897
Ion Ratio Lower Upper
95 100
174 91.8 0.0 180.0
176 89.0 0.0 173.2

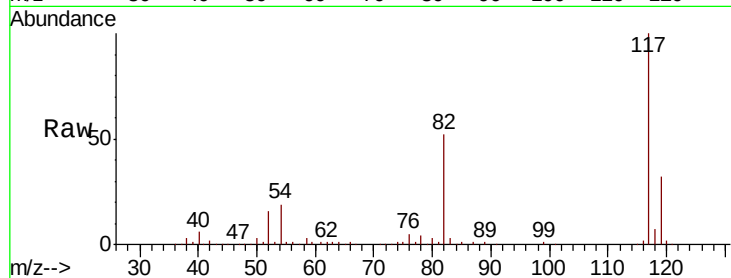




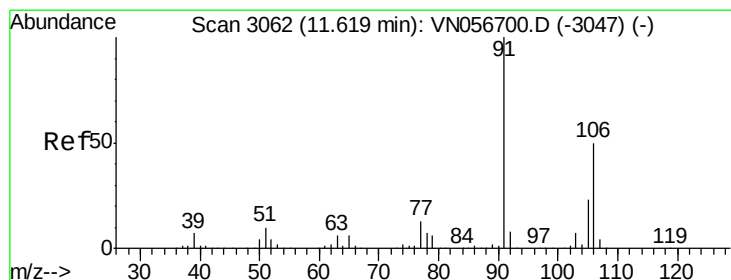
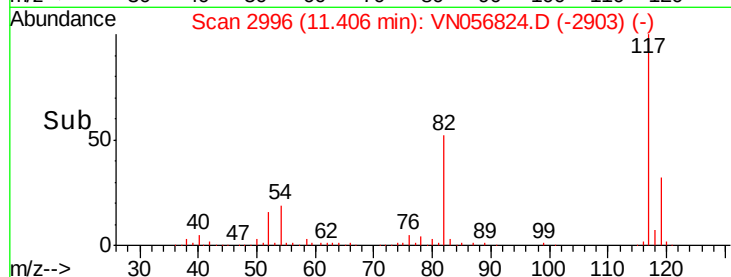
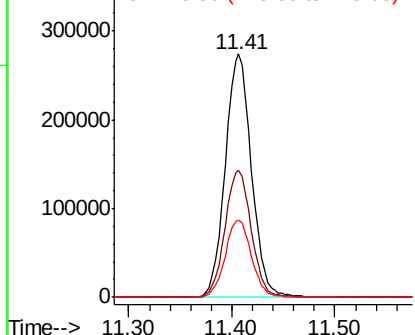
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056824.D
Acq: 19 Jul 2019 12:11

Instrument :
MSVOA_N
ClientSampleId :
PB121463ZHE#10

Tot Ion:117 Resp: 484433
Ion Ratio Lower Upper
117 100
82 52.4 42.2 63.2
119 32.0 25.2 37.8

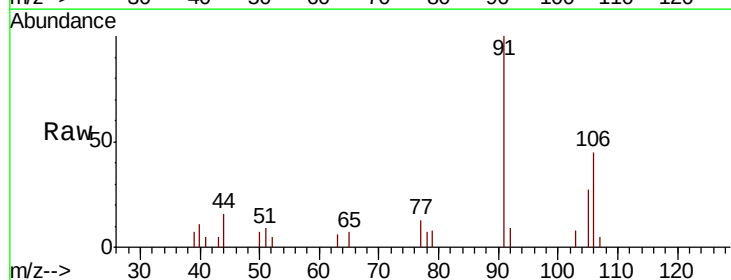


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

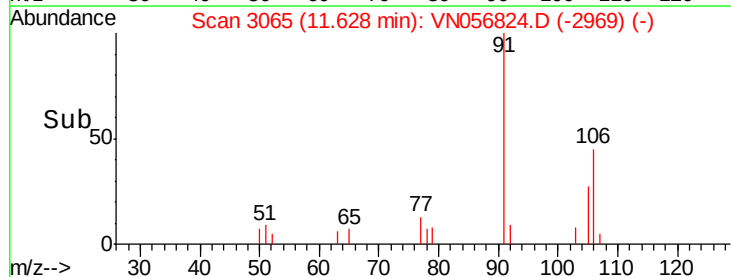
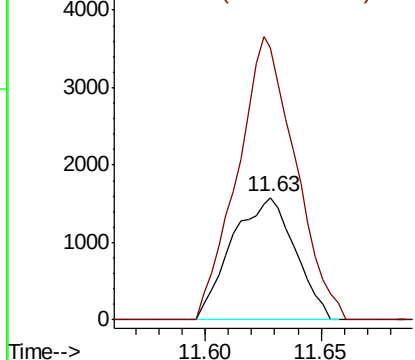


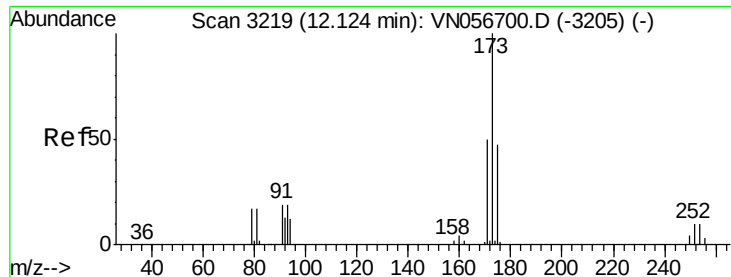
#68
m/p-Xylenes
Concen: 0.459 ug/l
RT: 11.63 min Scan# 3065
Delta R.T. 0.01 min
Lab File: VN056824.D
Acq: 19 Jul 2019 12:11

Tgt Ion:106 Resp: 2985
Ion Ratio Lower Upper
106 100
91 212.7 160.5 240.7



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN





#71

Bromoform

Concen: 0.456 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN056824.D

Acq: 19 Jul 2019 12:11

Instrument :

MSVOA_N

ClientSampleId :

PB121463ZHE#10

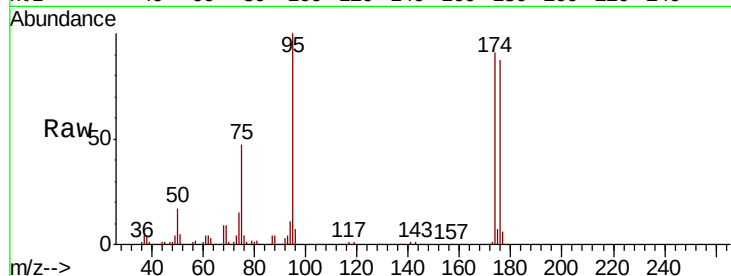
Tot Ion:173 Resp: 1266

Ion Ratio Lower Upper

173 100

175 903.6 23.8 71.4#

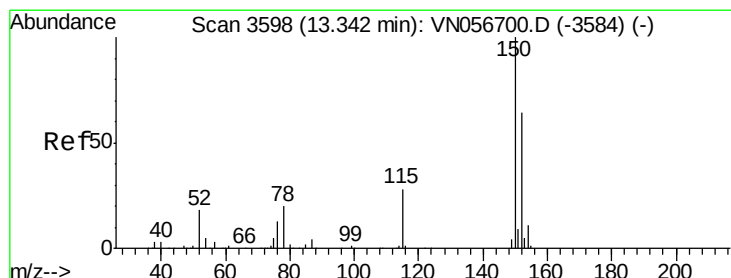
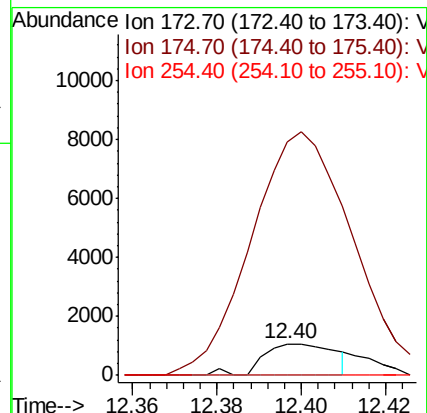
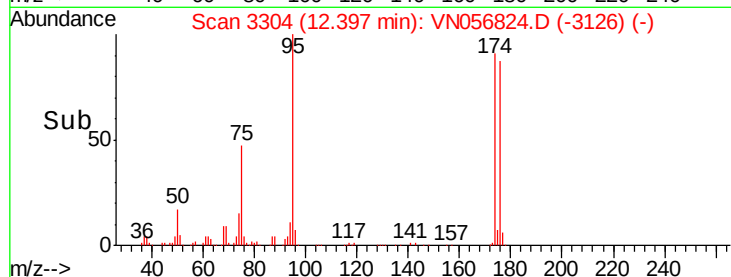
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN056824.D

Acq: 19 Jul 2019 12:11

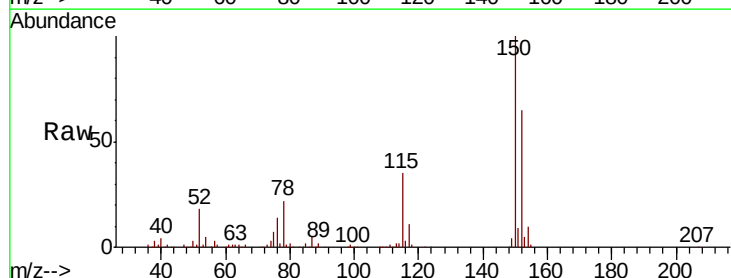
Tgt Ion:152 Resp: 168550

Ion Ratio Lower Upper

152 100

115 54.2 28.2 84.7

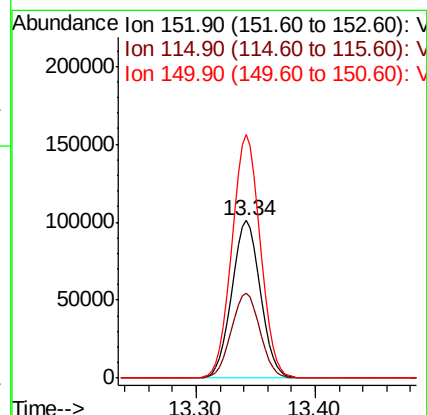
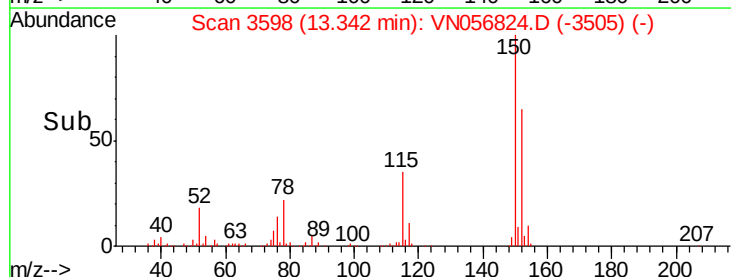
150 153.3 0.0 345.8

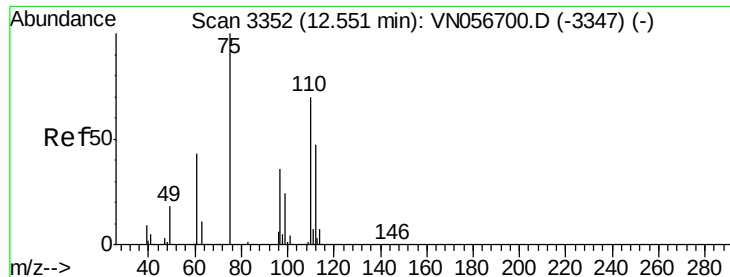


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.366 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056824.D

Acq: 19 Jul 2019 12:11

Instrument :

MSVOA_N

ClientSampleId :

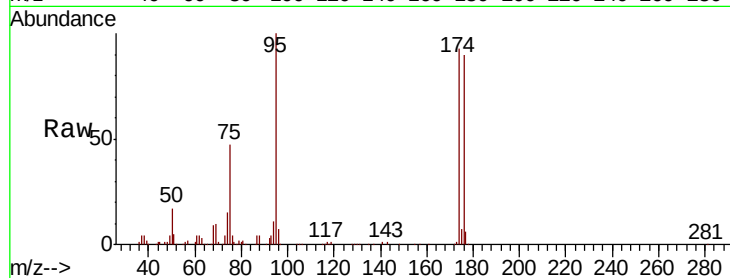
PB121463ZHE#10

Tot Ion: 75 Resp: 93511

Ion Ratio Lower Upper

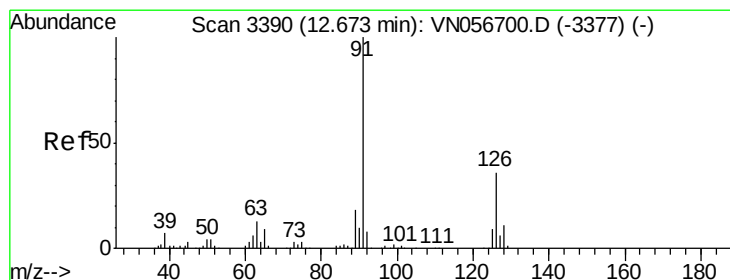
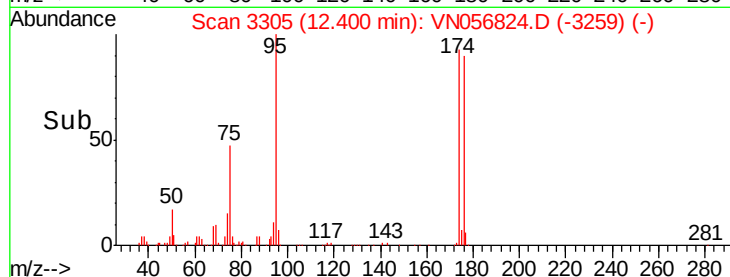
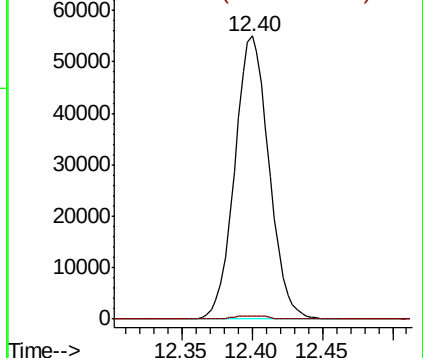
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3304

Delta R.T. -0.28 min

Lab File: VN056824.D

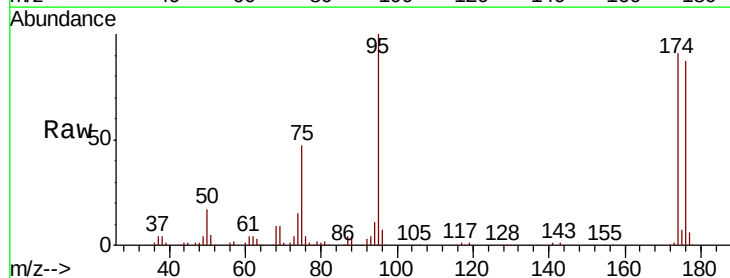
Acq: 19 Jul 2019 12:11

Tgt Ion: 91 Resp: 465

Ion Ratio Lower Upper

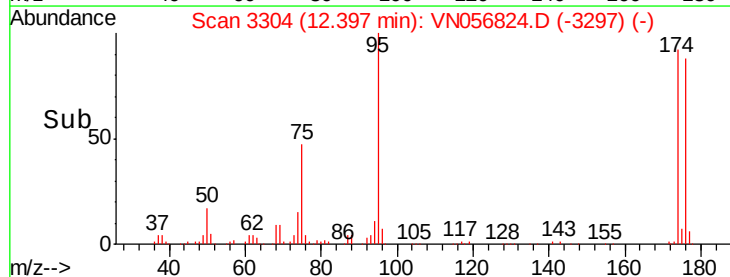
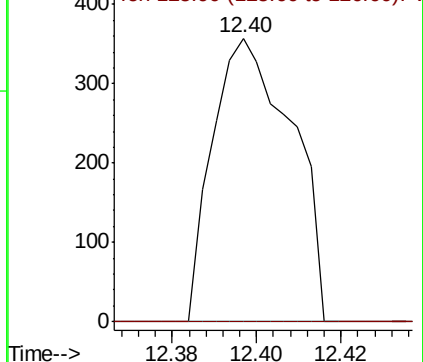
91 100

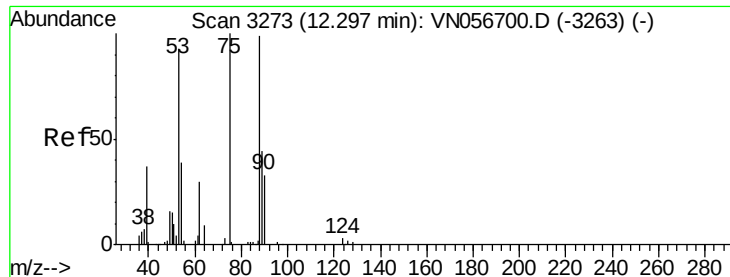
126 0.0 17.9 53.7#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 78.339 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056824.D

Acq: 19 Jul 2019 12:11

Instrument :

MSVOA_N

ClientSampleId :

PB121463ZHE#10

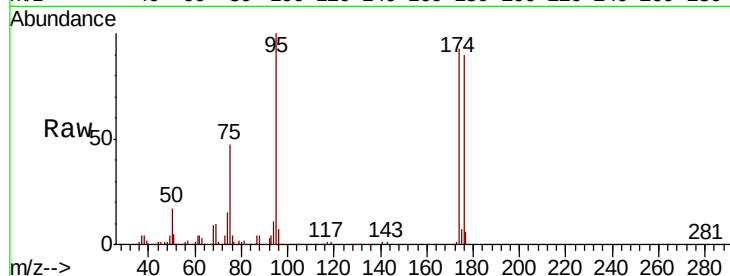
Tot Ion: 75 Resp: 93511

Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

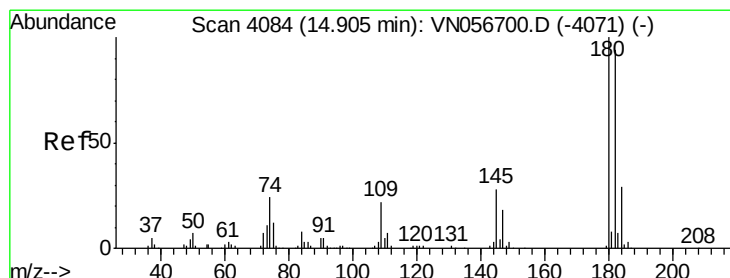
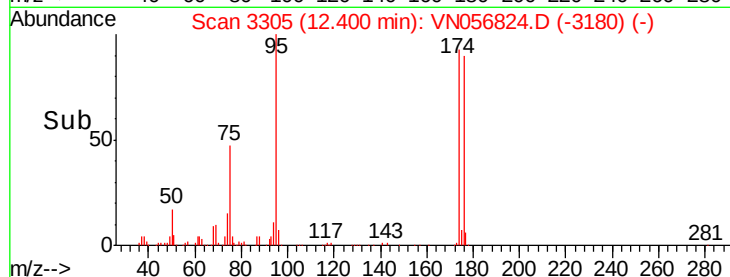
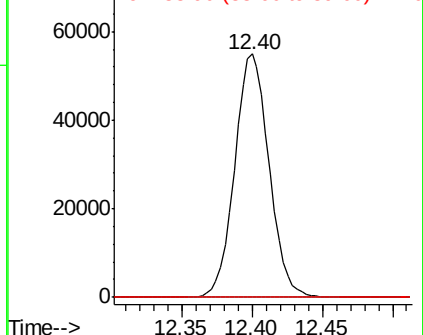
89 0.0 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#93

1,2,4-Trichlorobenzene

Concen: 3.732 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.01 min

Lab File: VN056824.D

Acq: 19 Jul 2019 12:11

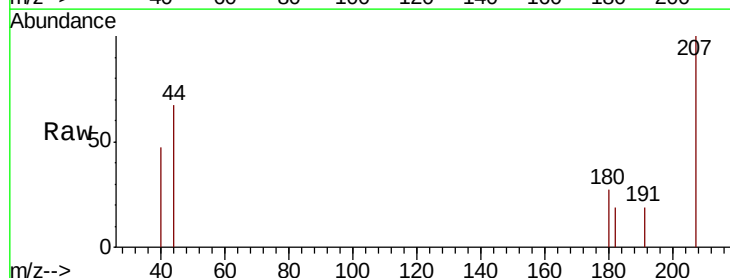
Tgt Ion:180 Resp: 146

Ion Ratio Lower Upper

180 100

182 20.5 47.2 141.6#

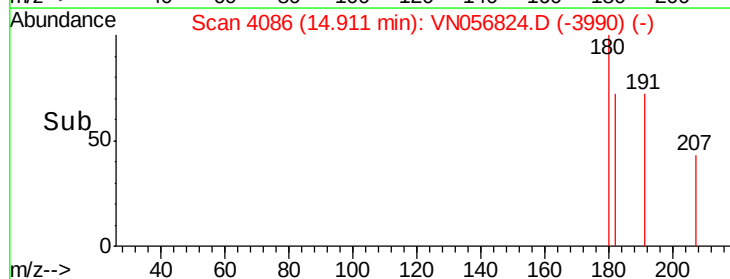
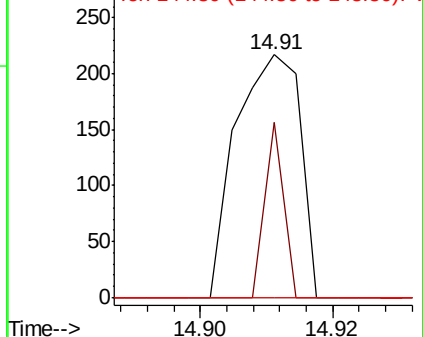
145 0.0 14.2 42.8#

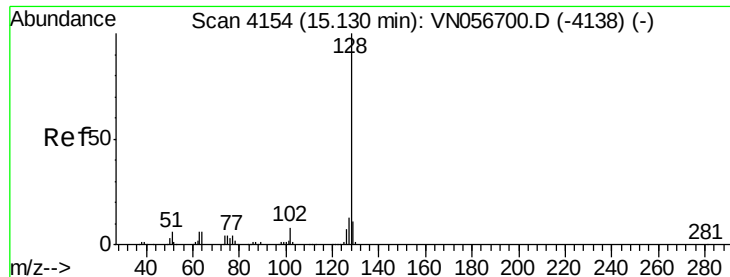


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 4.571 ug/l

RT: 15.14 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN056824.D

Acq: 19 Jul 2019 12:11

Instrument :

MSVOA_N

ClientSampleId :

PB121463ZHE#10

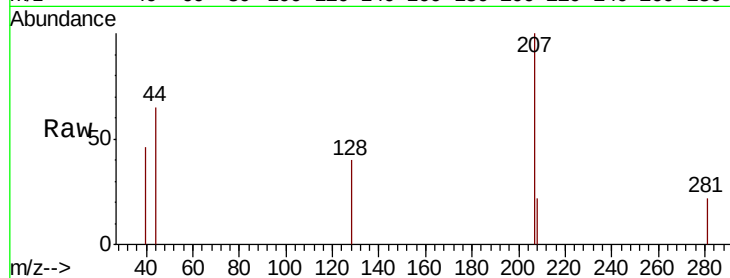
Tot Ion:128 Resp: 455

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.7 13.1#



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

15.14

400

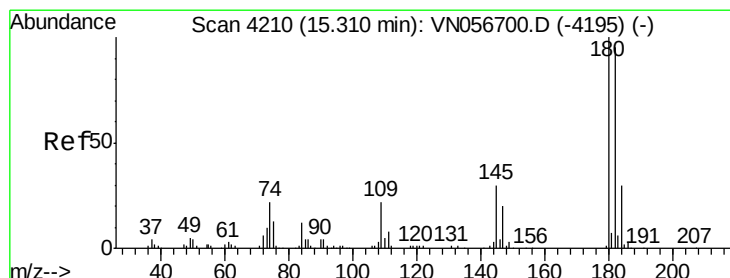
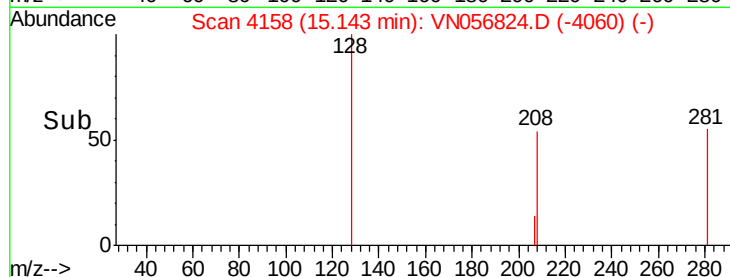
300

200

100

0

Time--> 15.10 15.12 15.14 15.16



#96

1,2,3-Trichlorobenzene

Concen: 3.391 ug/l

RT: 15.32 min Scan# 4213

Delta R.T. 0.01 min

Lab File: VN056824.D

Acq: 19 Jul 2019 12:11

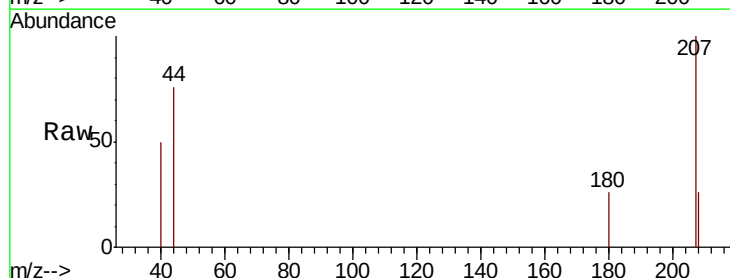
Tgt Ion:180 Resp: 237

Ion Ratio Lower Upper

180 100

182 66.2 47.1 141.3

145 0.0 15.0 45.1#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

15.32

300

250

200

150

100

50

0

Time--> 15.30 15.32

