

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100818\
 Data File : VN051727.D
 Acq On : 8 Oct 2018 11:41
 Operator : MD\SY
 Sample : PB113584ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113584ZHE#02

Quant Time: Oct 09 03:50:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 05 02:22:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	713493	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1016369	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	884862	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	333866	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	426039	45.20	ug/l	0.00
Spiked Amount			Recovery	=	90.40%	
35) Dibromofluoromethane	7.59	113	385848	49.10	ug/l	0.00
Spiked Amount			Recovery	=	98.20%	
50) Toluene-d8	10.09	98	1448787	49.42	ug/l	0.00
Spiked Amount			Recovery	=	98.84%	
62) 4-Bromofluorobenzene	12.40	95	409449	39.46	ug/l	0.00
Spiked Amount			Recovery	=	78.92%	

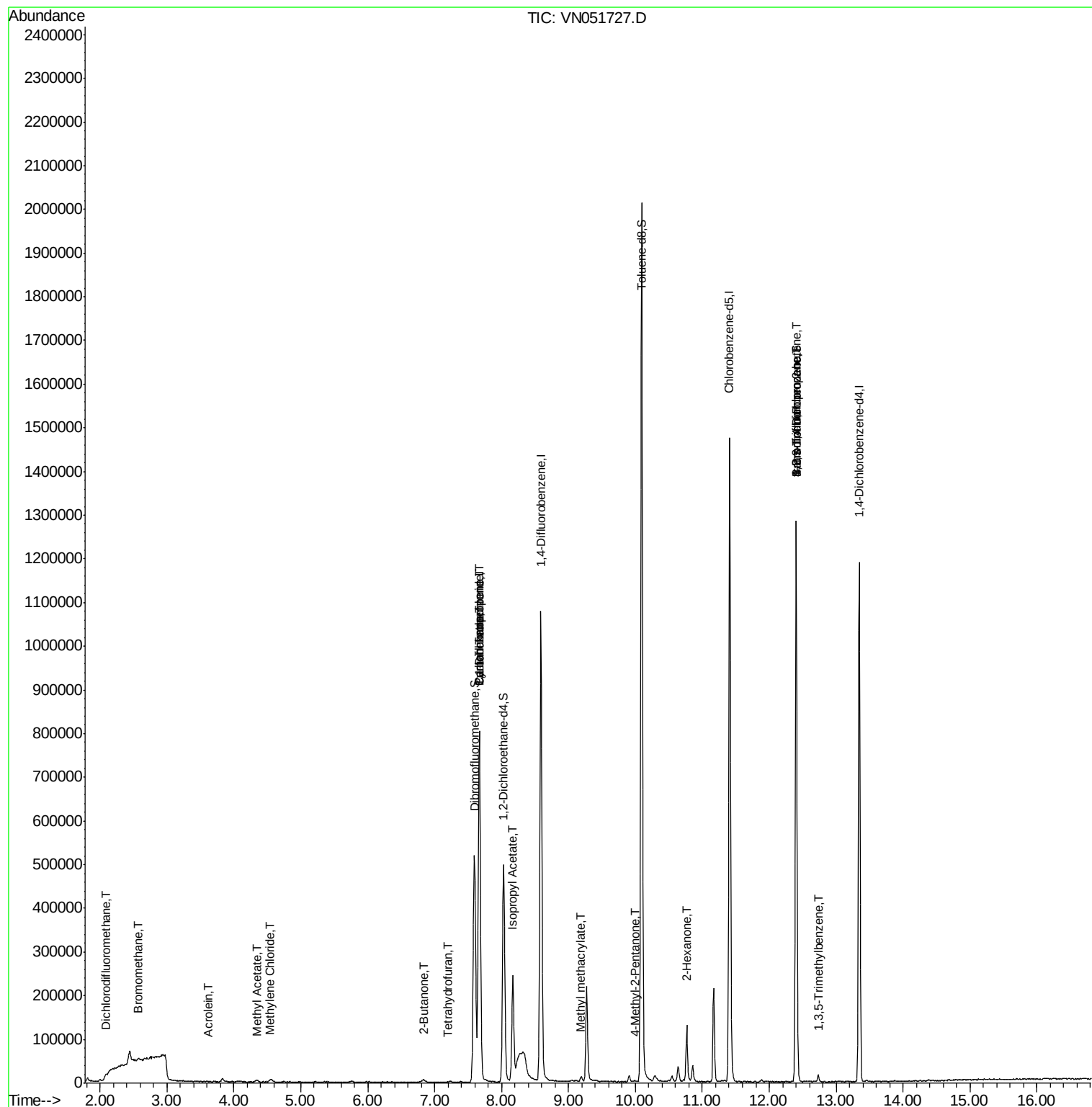
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.09	85	99	1.160	ug/l #	42
5) Bromomethane	2.57	94	2532	0.257	ug/l	84
7) Trichlorofluoromethane	3.04	101	36	Below Cal	#	18
13) Acrolein	3.61	56	279	0.697	ug/l #	62
16) Acetone	3.83	43	11475	Below Cal		95
18) Methyl Acetate	4.34	43	5324	1.023	ug/l #	84
20) Methylene Chloride	4.54	84	1729	0.223	ug/l #	80
25) 2-Butanone	6.84	43	572	0.210	ug/l	92
29) Tetrahydrofuran	7.20	42	564	0.338	ug/l #	38
31) Cyclohexane	7.67	56	14168	1.107	ug/l #	13
36) 1,1-Dichloropropene	7.67	75	47218	4.445	ug/l #	49
38) Carbon Tetrachloride	7.67	117	64010	5.021	ug/l #	16
41) Methacrylonitrile	7.17	41	128	Below Cal	#	24
43) Isopropyl Acetate	8.17	43	292530	25.323	ug/l	97
48) Methyl methacrylate	9.19	41	5460	1.034	ug/l #	23
51) 4-Methyl-2-Pentanone	9.98	43	1429	0.244	ug/l #	35
59) 2-Hexanone	10.77	43	16967	4.268	ug/l #	50
71) Bromoform	12.40	173	3320	0.509	ug/l #	1
74) N-amyl acetate	12.09	43	161	Below Cal	#	33
75) 1,1,2,2-Tetrachloroethane	12.40	83	386	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	217845	52.738	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	6065	0.253	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	217845	119.941	ug/l #	14

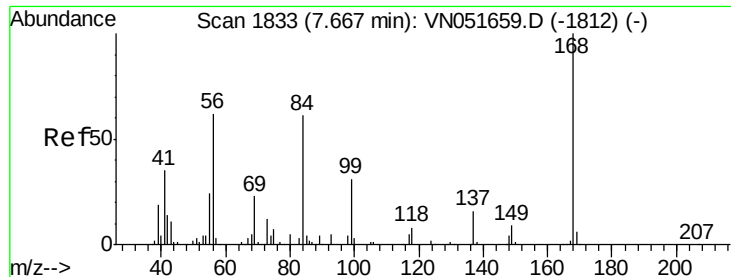
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 05 02:22:33 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: VN051727.D

Acq: 8 Oct 2018 11:41

Instrument :

MSVOA_N

ClientSampleId :

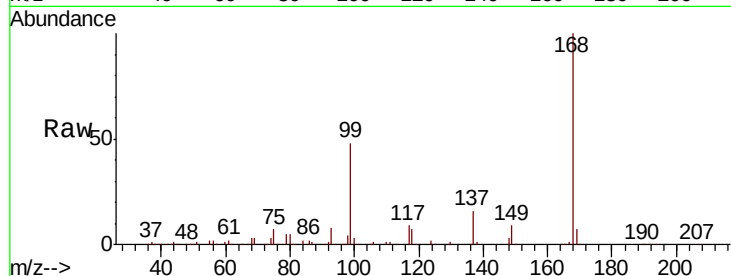
PB113584ZHE#02

Tot Ion:168 Resp: 713493

Ion Ratio Lower Upper

168 100

99 48.3 40.4 60.6



Abundance Ion 167.90 (167.60 to 168.60): VN051659.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN051659.D (-1812) (-)

7.67

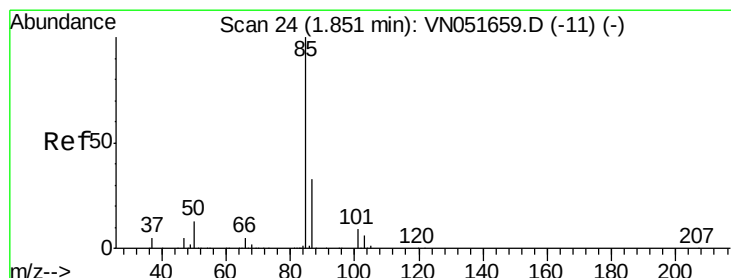
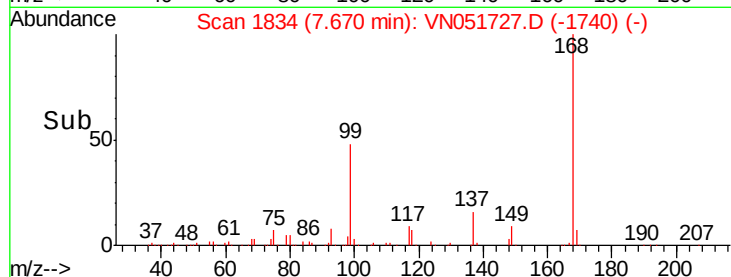
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.160 ug/l

RT: 2.09 min Scan# 99

Delta R.T. 0.24 min

Lab File: VN051727.D

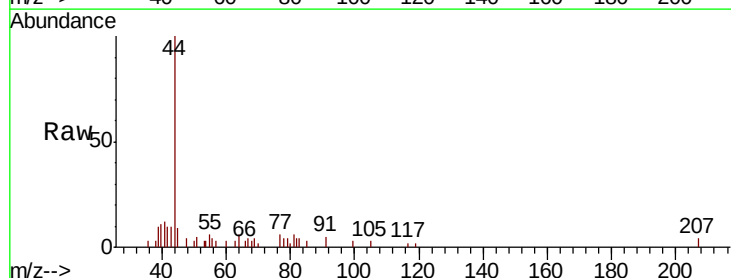
Acq: 8 Oct 2018 11:41

Tgt Ion: 85 Resp: 99

Ion Ratio Lower Upper

85 100

87 0.0 16.4 49.4#



Abundance Ion 84.90 (84.60 to 85.60): VN051659.D (-11) (-)

Ion 86.90 (86.60 to 87.60): VN051659.D (-11) (-)

2.09

200

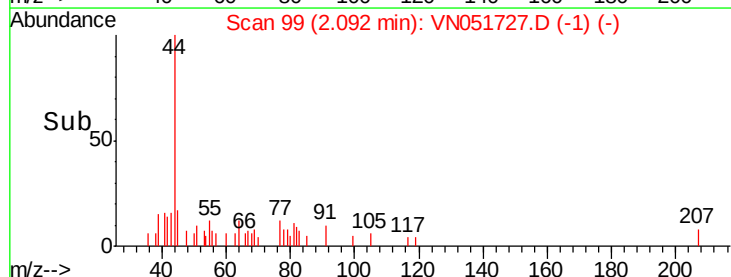
150

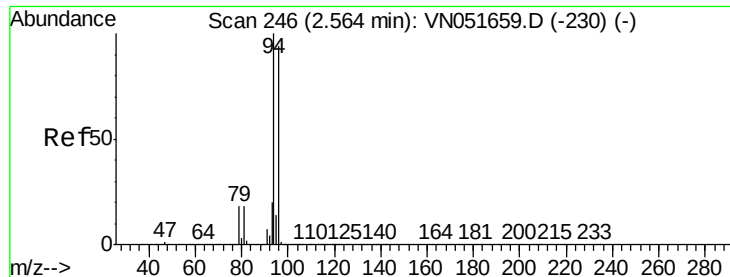
100

50

0

Time-->





#5

Bromomethane

Concen: 0.257 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051727.D

Acq: 8 Oct 2018 11:41

Instrument :

MSVOA_N

ClientSampleId :

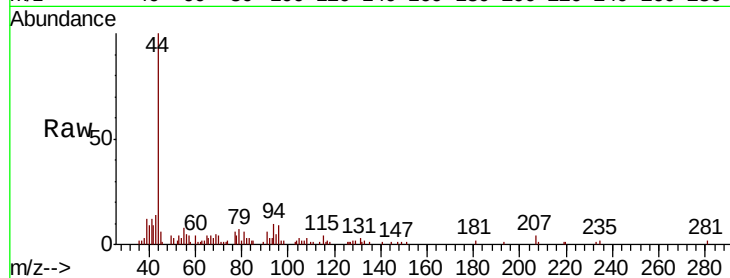
PB113584ZHE#02

Tot Ion: 94 Resp: 2532

Ion Ratio Lower Upper

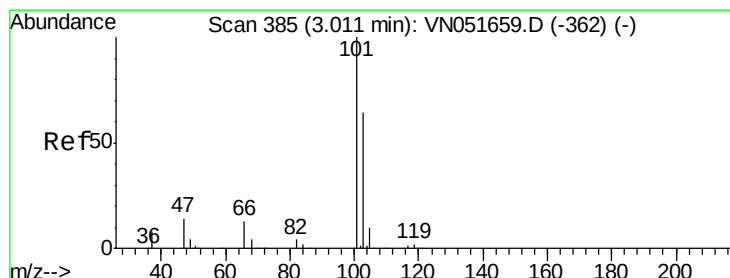
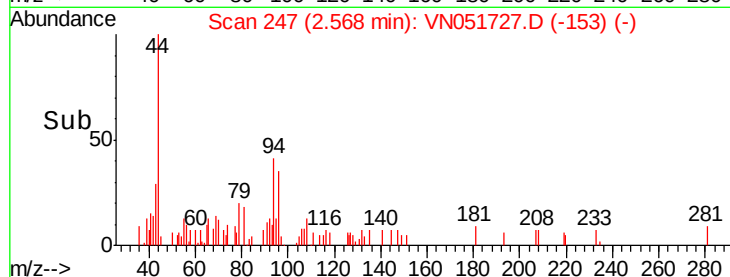
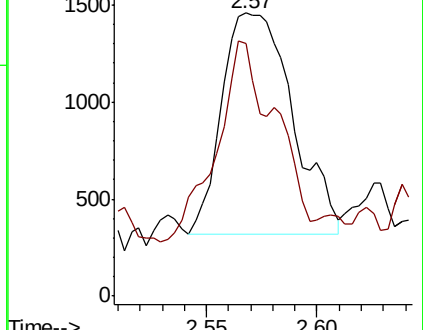
94 100

96 78.5 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VN051659.D (-230) (-)

Ion 95.90 (95.60 to 96.60): VN051659.D (-230) (-)



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 3.04 min Scan# 393

Delta R.T. 0.03 min

Lab File: VN051727.D

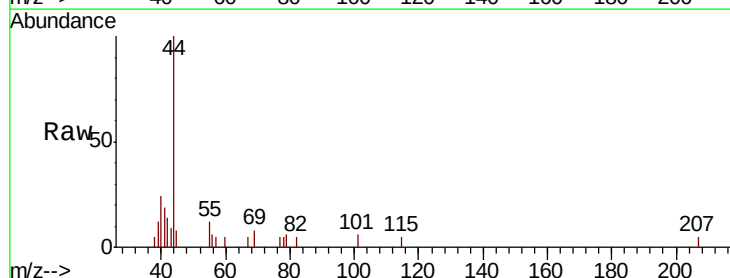
Acq: 8 Oct 2018 11:41

Tgt Ion: 101 Resp: 36

Ion Ratio Lower Upper

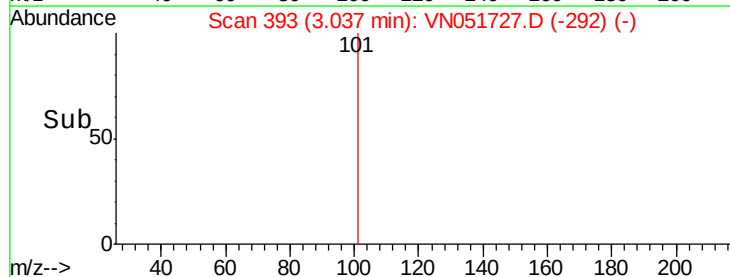
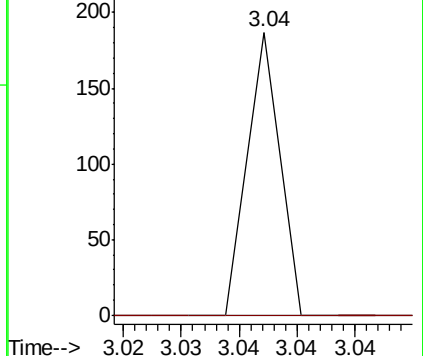
101 100

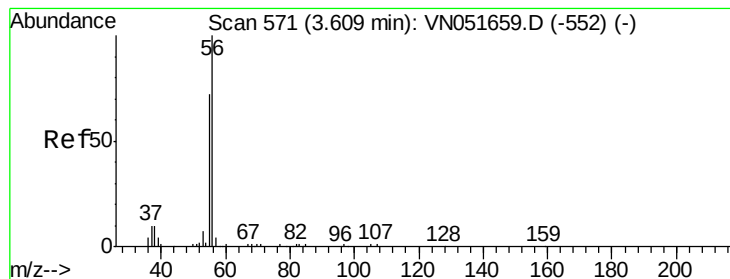
103 0.0 51.1 76.7#



Abundance Ion 100.90 (100.60 to 101.60): VN051659.D (-362) (-)

Ion 102.80 (102.50 to 103.50): VN051659.D (-362) (-)





#13

Acrolein

Concen: 0.697 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN051727.D

Acq: 8 Oct 2018 11:41

Instrument :

MSVOA_N

ClientSampleId :

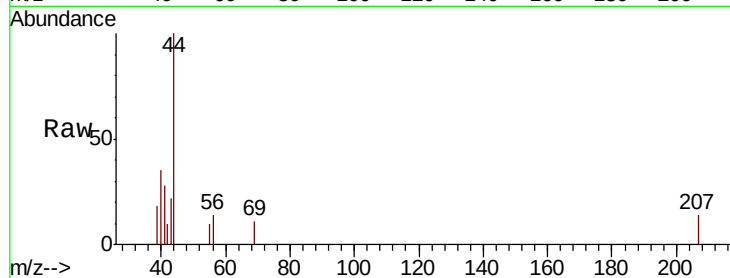
PB113584ZHE#02

Tot Ion: 56 Resp: 279

Ion Ratio Lower Upper

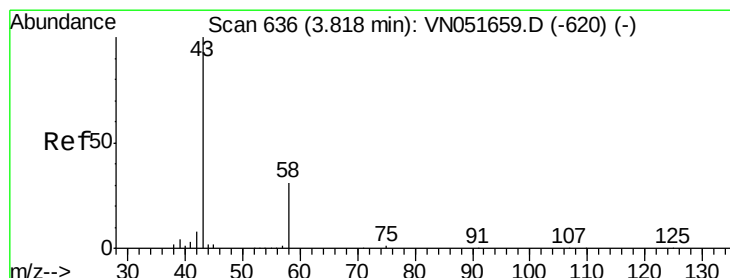
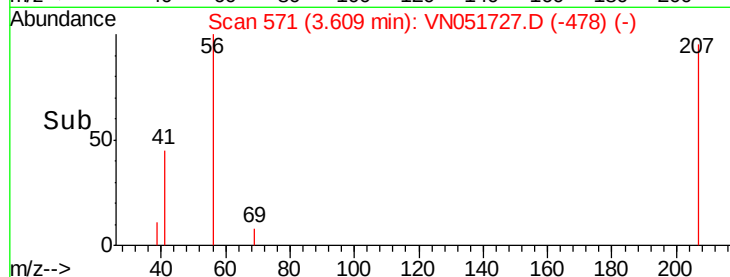
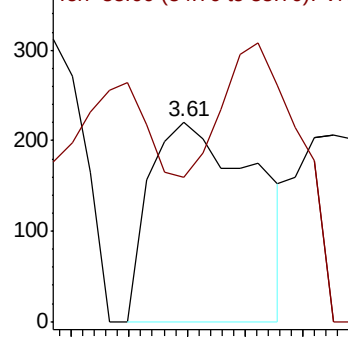
56 100

55 103.2 57.5 86.3#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051727.D

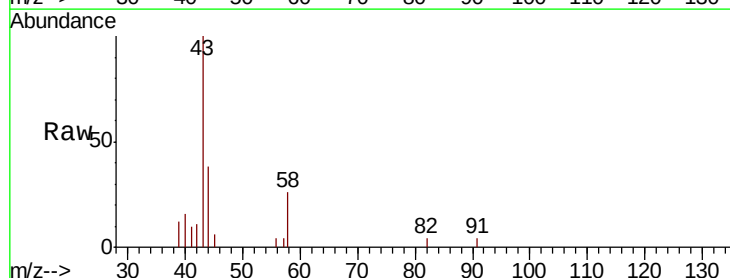
Acq: 8 Oct 2018 11:41

Tgt Ion: 43 Resp: 11475

Ion Ratio Lower Upper

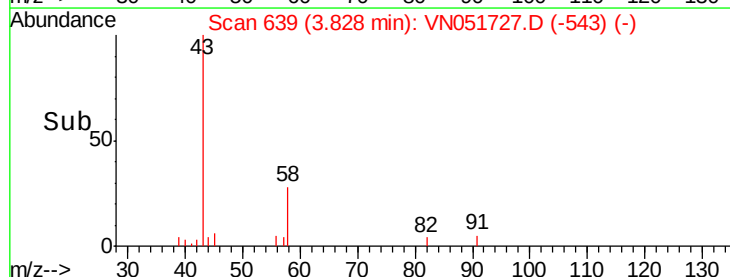
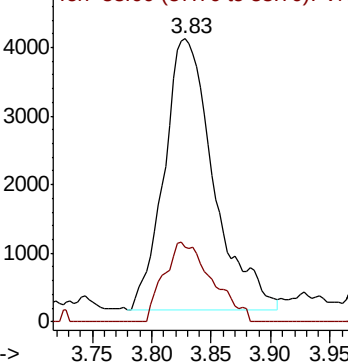
43 100

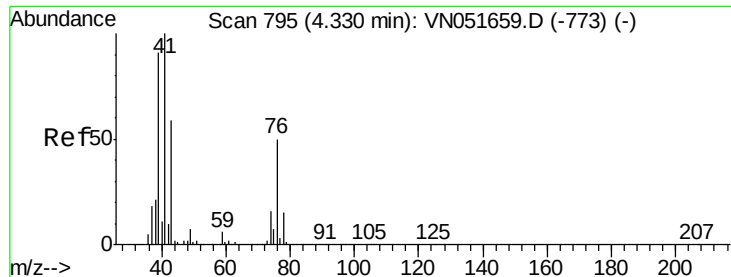
58 27.6 24.3 36.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

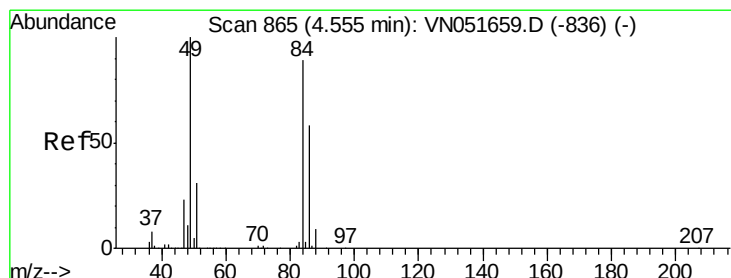
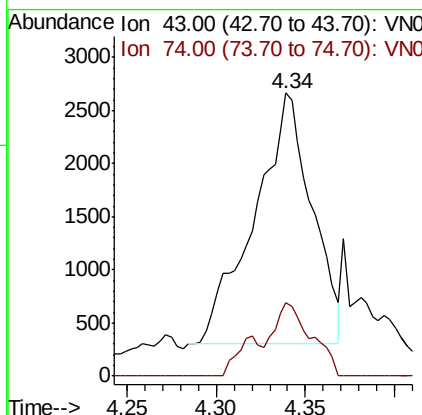
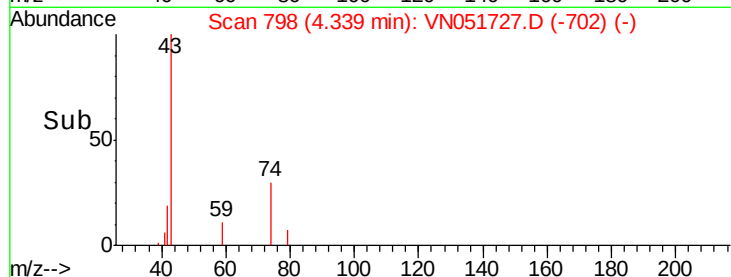
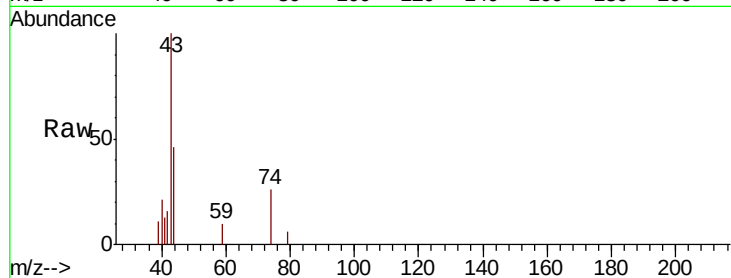




#18
Methvl Acetate
Concen: 1.023 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN051727.D
Acq: 8 Oct 2018 11:41

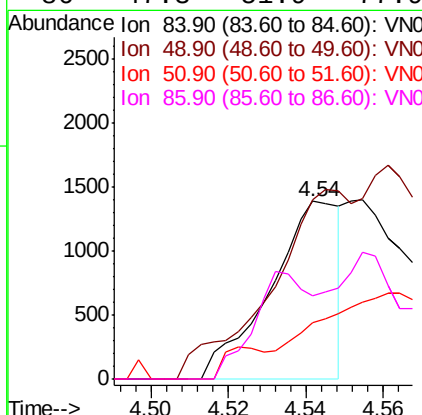
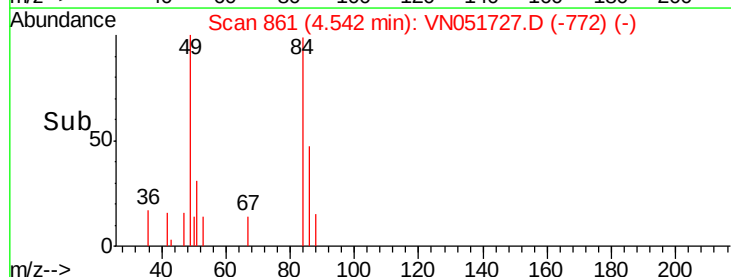
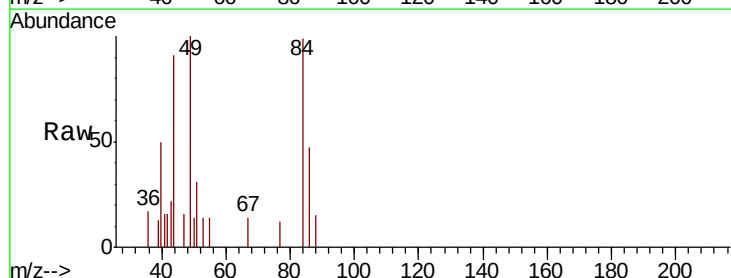
Instrument :
MSVOA_N
ClientSampleId :
PB113584ZHE#02

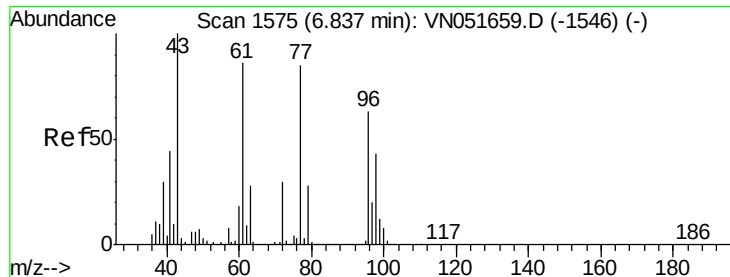
Tot Ion: 43 Resp: 5324
Ion Ratio Lower Upper
43 100
74 18.8 21.5 32.3#



#20
Methylene Chloride
Concen: 0.223 ug/l
RT: 4.54 min Scan# 861
Delta R.T. -0.01 min
Lab File: VN051727.D
Acq: 8 Oct 2018 11:41

Tgt Ion: 84 Resp: 1729
Ion Ratio Lower Upper
84 100
49 87.8 89.5 134.3#
51 31.7 27.4 41.0
86 47.3 51.9 77.9#





#25

2-Butanone

Concen: 0.210 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VN051727.D

Acq: 8 Oct 2018 11:41

Instrument :

MSVOA_N

ClientSampleId :

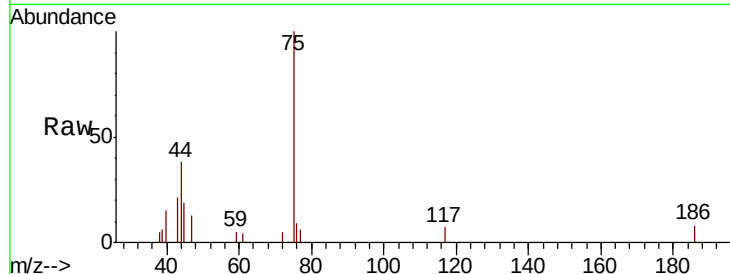
PB113584ZHE#02

Tot Ion: 43 Resp: 572

Ion Ratio Lower Upper

43 100

72 34.4 24.2 36.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.84

800

600

400

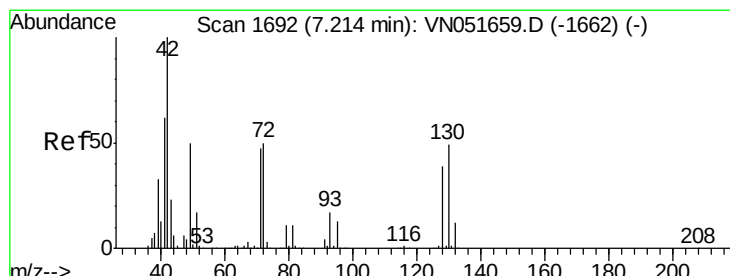
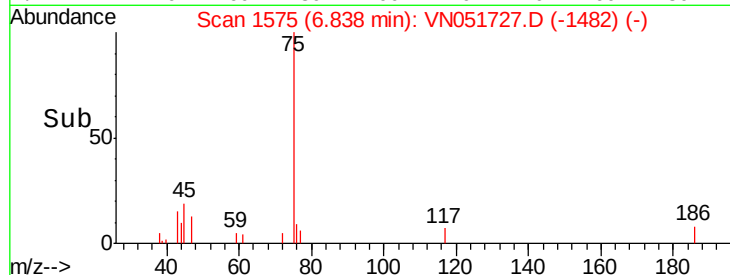
200

0

6.82

6.84

Time-->



#29

Tetrahydrofuran

Concen: 0.338 ug/l

RT: 7.20 min Scan# 1689

Delta R.T. -0.01 min

Lab File: VN051727.D

Acq: 8 Oct 2018 11:41

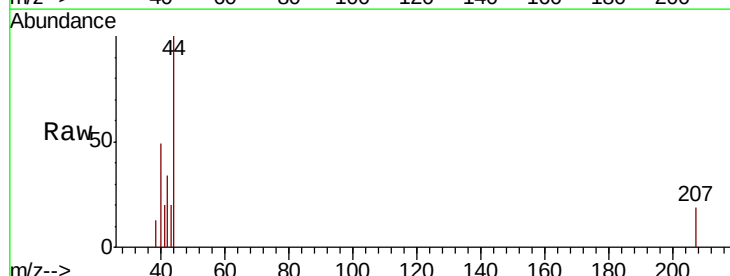
Tgt Ion: 42 Resp: 564

Ion Ratio Lower Upper

42 100

72 12.6 40.1 60.1#

71 0.0 38.0 57.0#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

600

500

400

300

200

100

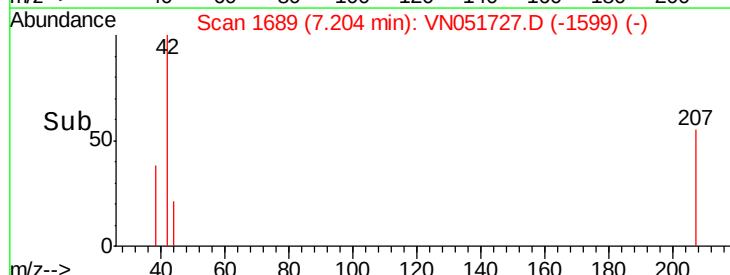
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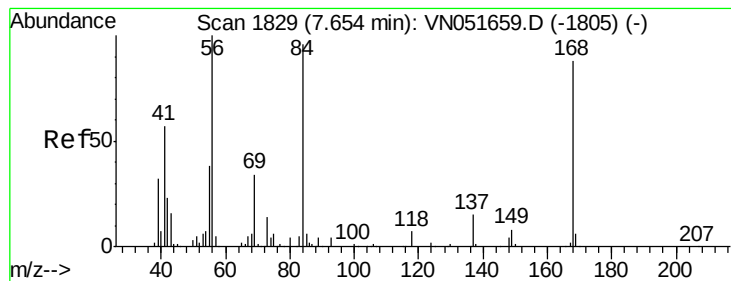
7.18

7.20

7.22

Time-->





#31

Cyclohexane

Concen: 1.107 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051727.D

Acq: 8 Oct 2018 11:41

Instrument :

MSVOA_N

ClientSampleId :

PB113584ZHE#02

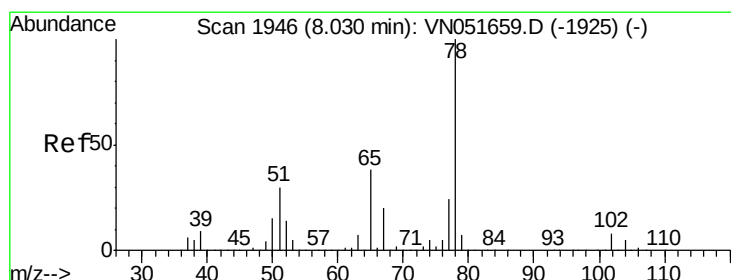
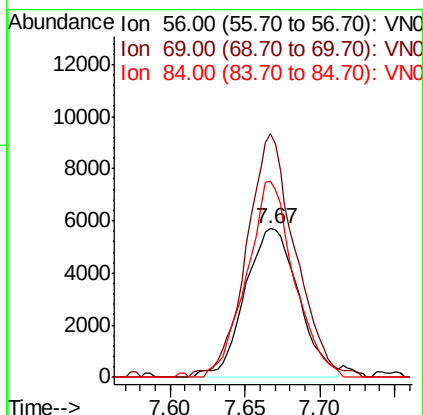
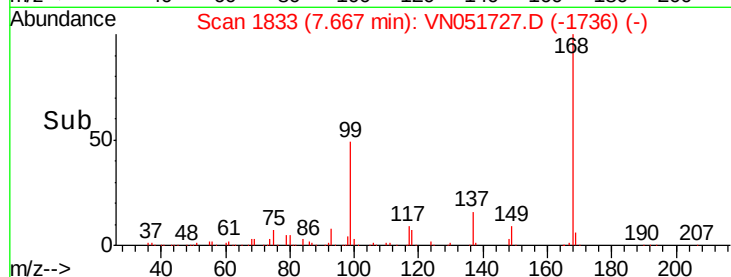
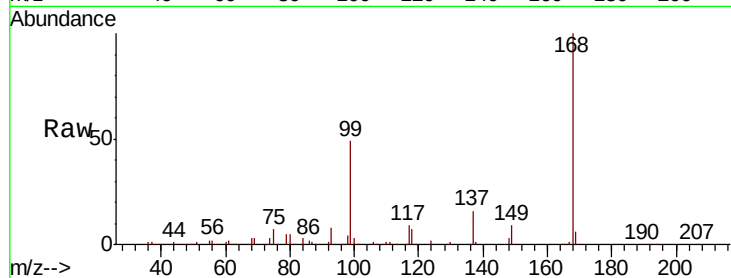
Tot Ion: 56 Resp: 14168

Ion Ratio Lower Upper

56 100

69 163.9 27.5 41.3#

84 132.3 76.7 115.1#



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051727.D

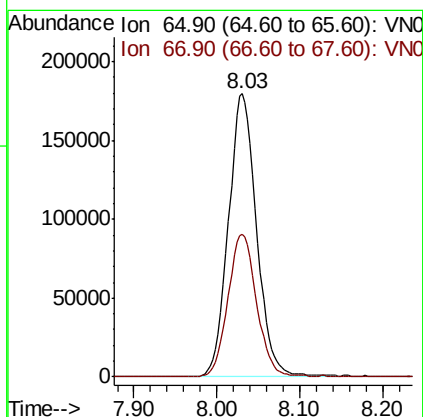
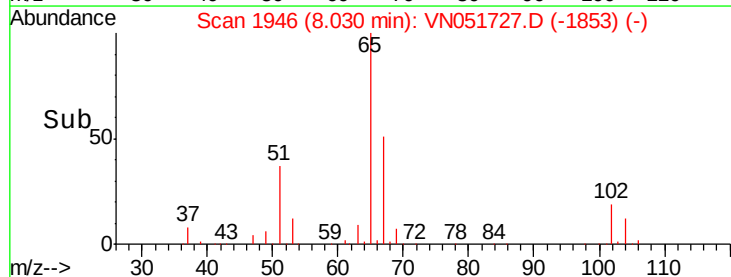
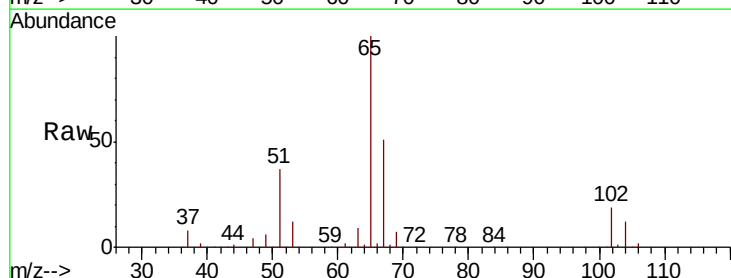
Acq: 8 Oct 2018 11:41

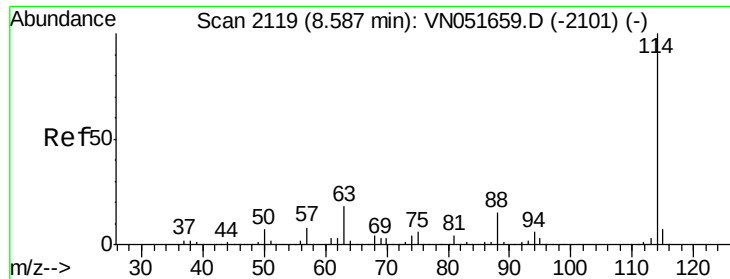
Tgt Ion: 65 Resp: 426039

Ion Ratio Lower Upper

65 100

67 51.2 0.0 103.6

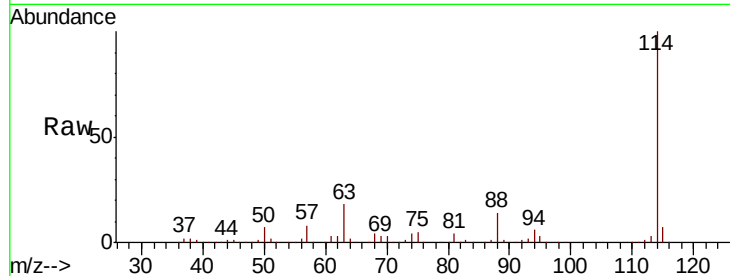




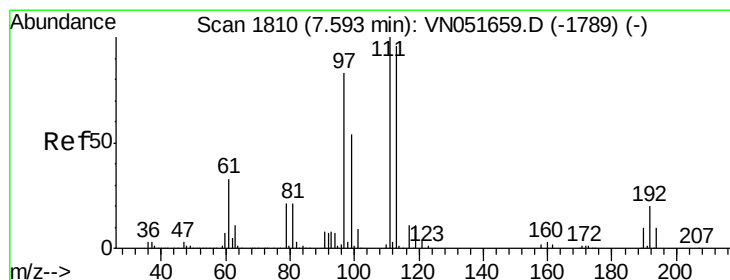
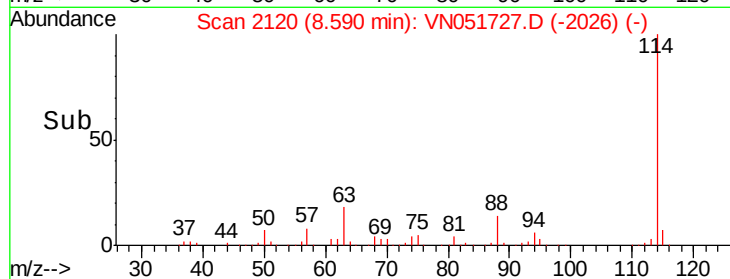
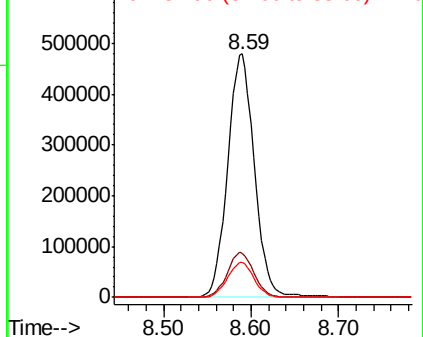
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN051727.D
 Acq: 8 Oct 2018 11:41

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113584ZHE#02

Tot Ion:114 Resp: 1016369
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 36.2
 88 14.4 0.0 30.2

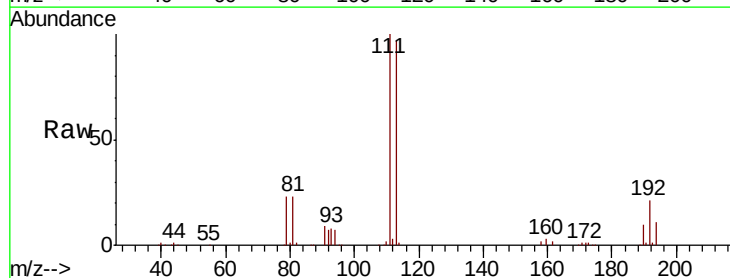


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

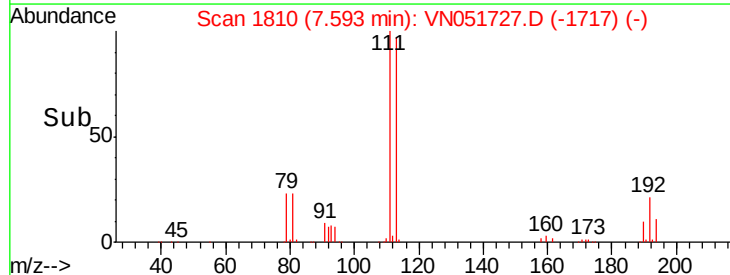
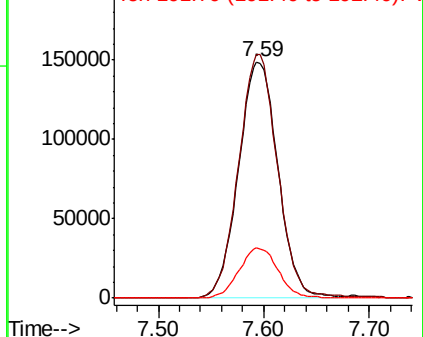


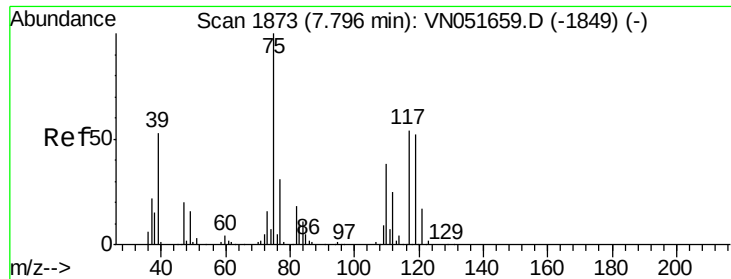
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051727.D
 Acq: 8 Oct 2018 11:41

Tgt Ion:113 Resp: 385848
 Ion Ratio Lower Upper
 113 100
 111 101.9 81.8 122.8
 192 21.2 16.5 24.7



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

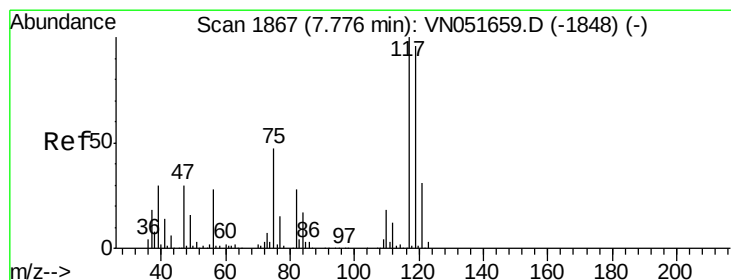
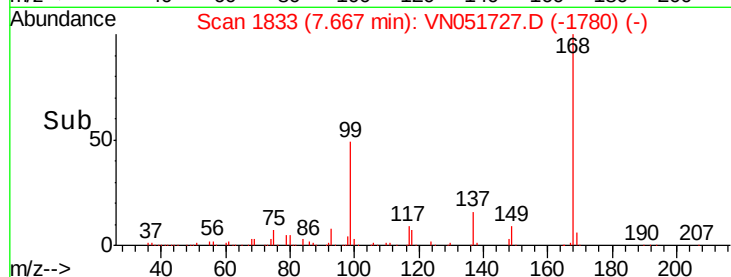
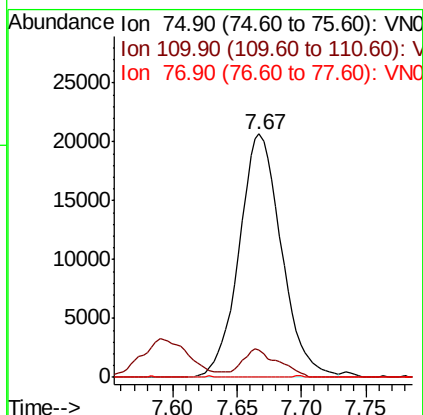
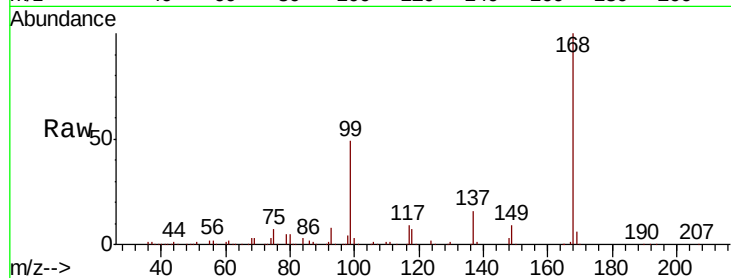




#36
 1,1-Dichloropropene
 Concen: 4.445 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051727.D
 Acq: 8 Oct 2018 11:41

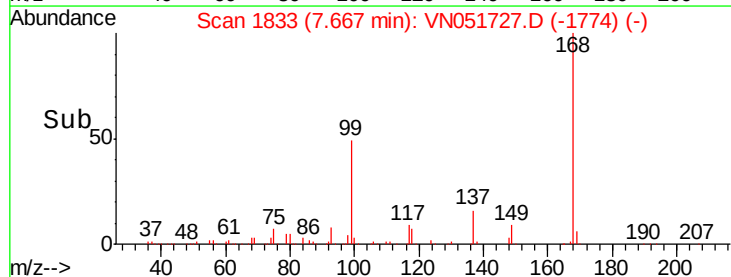
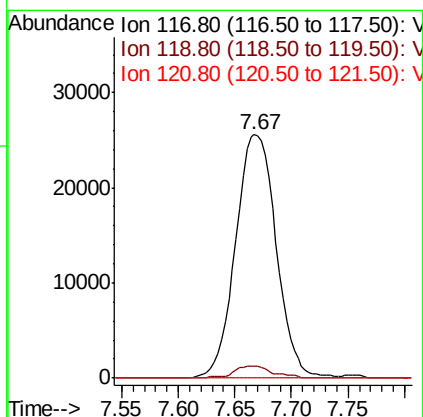
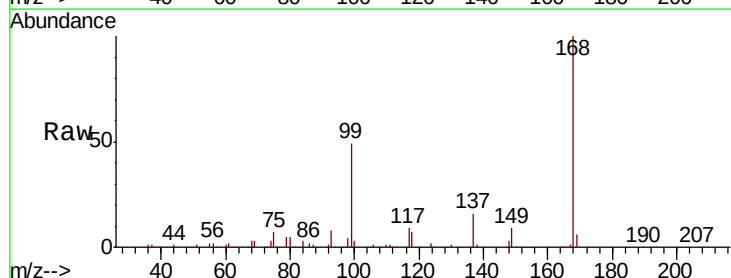
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113584ZHE#02

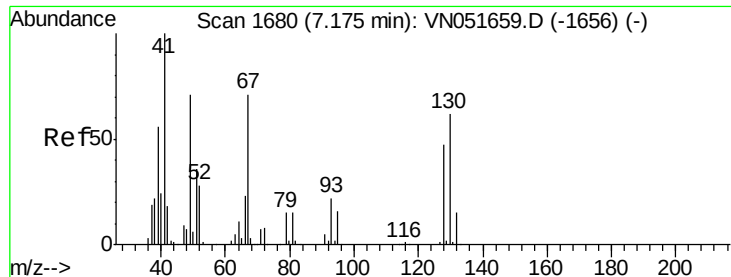
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.9	19.3	57.8#
77	0.0	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 5.021 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051727.D
 Acq: 8 Oct 2018 11:41

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.9	77.0	115.6#
121	0.0	25.0	37.6#

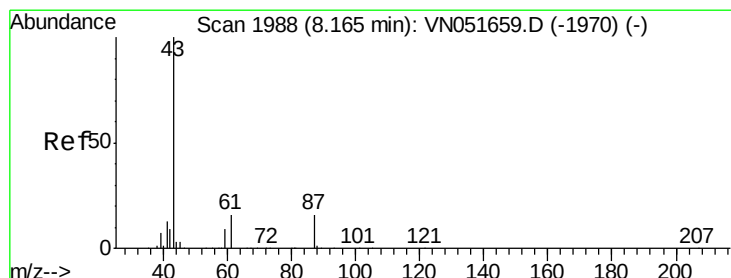
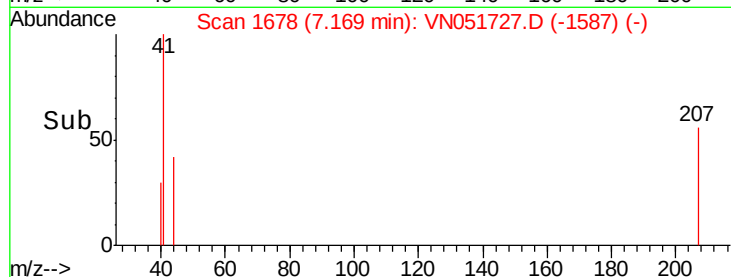
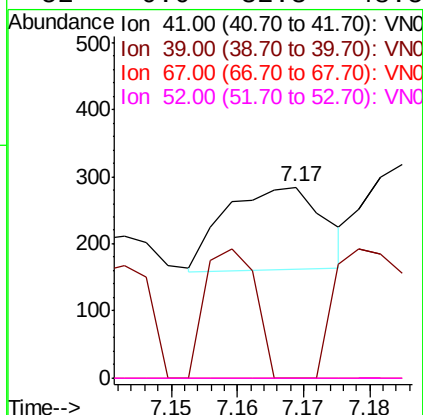
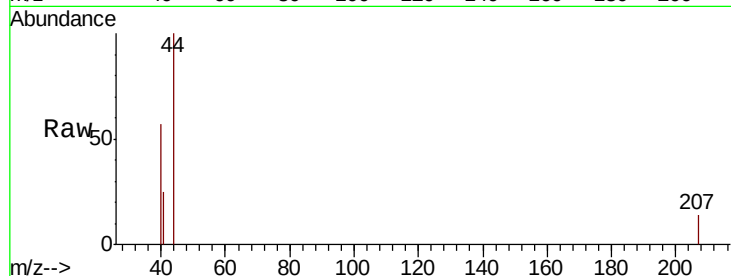




#41
Methacrylonitrile
Concen: Below Cal
RT: 7.17 min Scan# 1678
Delta R.T. -0.01 min
Lab File: VN051727.D
Acq: 8 Oct 2018 11:41

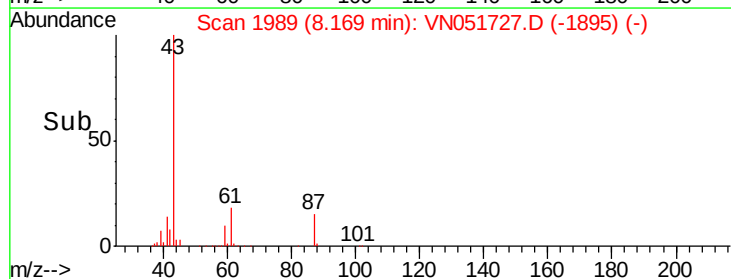
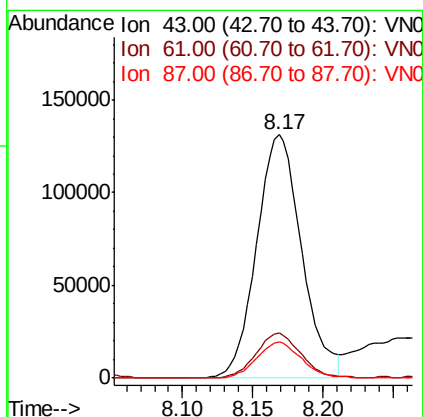
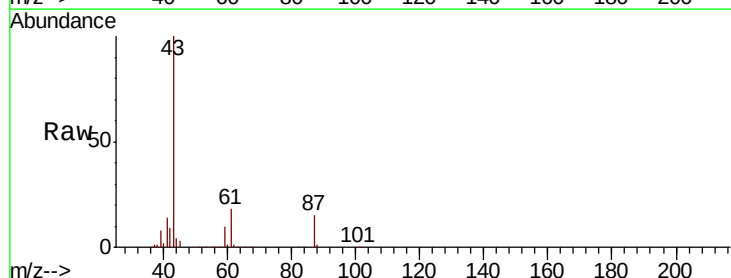
Instrument :
MSVOA_N
ClientSampleId :
PB113584ZHE#02

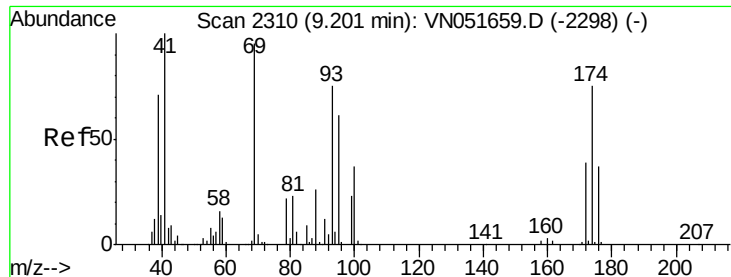
Tot Ion: 41 Resp: 128
Ion Ratio Lower Upper
41 100
39 106.3 53.9 80.9#
67 0.0 78.1 117.1#
52 0.0 32.3 48.5#



#43
Isopropyl Acetate
Concen: 25.323 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VN051727.D
Acq: 8 Oct 2018 11:41

Tgt Ion: 43 Resp: 292530
Ion Ratio Lower Upper
43 100
61 18.5 15.8 23.6
87 14.7 12.6 19.0

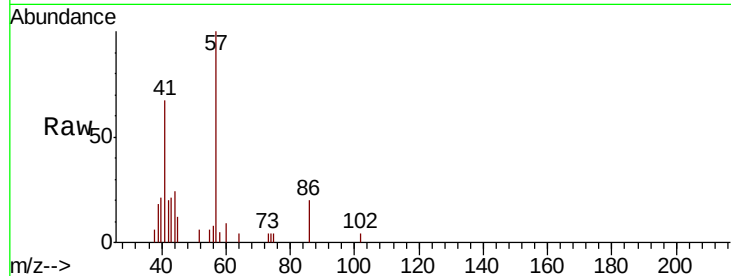




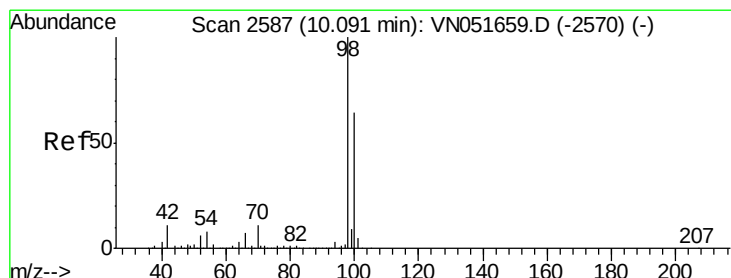
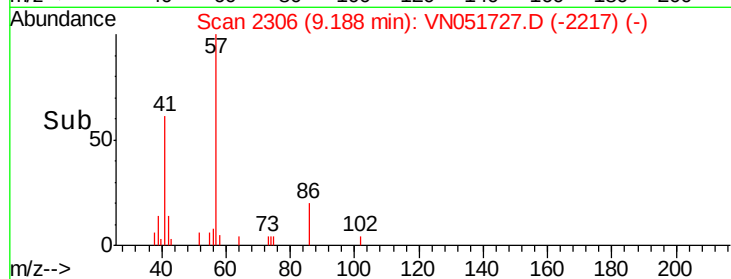
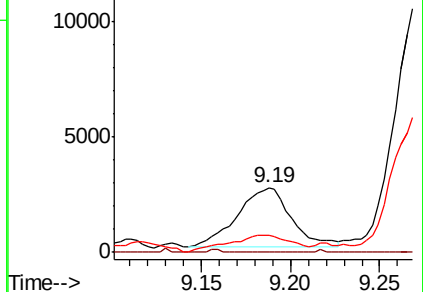
#48
Methvl methacrylate
Concen: 1.034 ug/l
RT: 9.19 min Scan# 2306
Delta R.T. -0.01 min
Lab File: VN051727.D
Acq: 8 Oct 2018 11:41

Instrument :
MSVOA_N
ClientSampleId :
PB113584ZHE#02

Tot Ion: 41 Resp: 5460
Ion Ratio Lower Upper
41 100
69 0.0 78.6 118.0#
39 33.7 59.2 88.8#

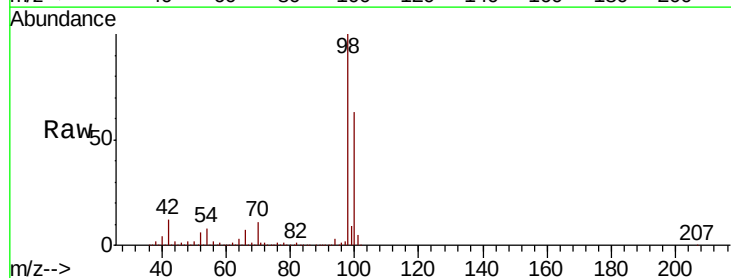


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

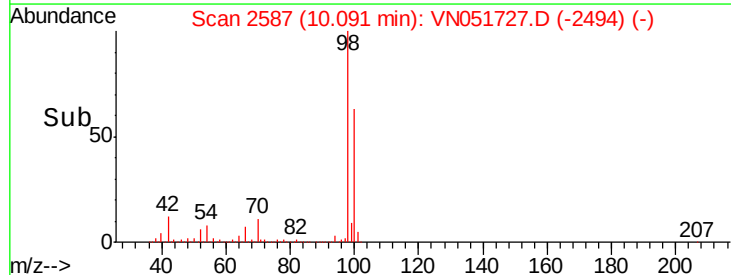
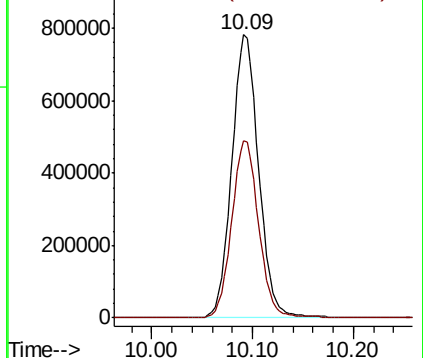


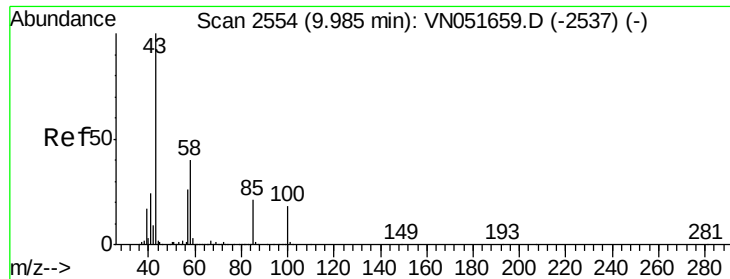
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051727.D
Acq: 8 Oct 2018 11:41

Tgt Ion: 98 Resp: 1448787
Ion Ratio Lower Upper
98 100
100 63.0 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VNC
Ion 100.00 (99.70 to 100.70): VNC

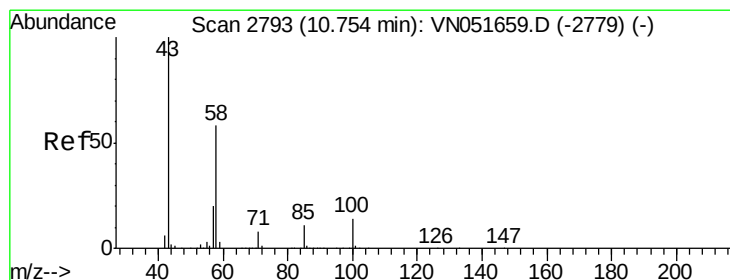
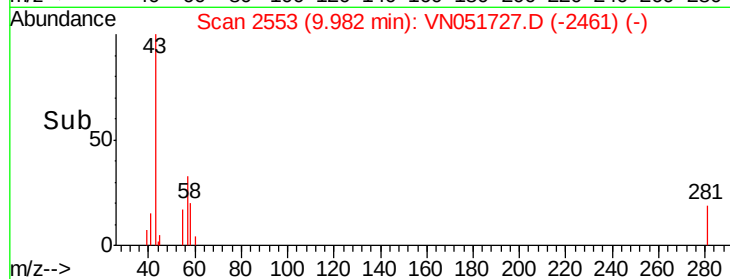
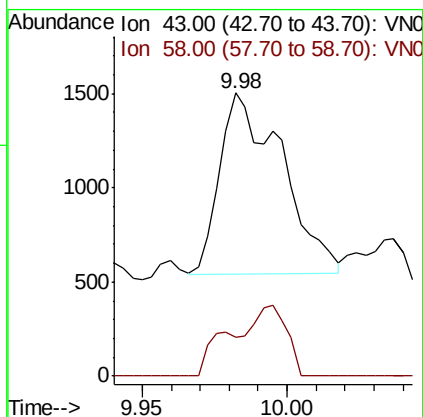
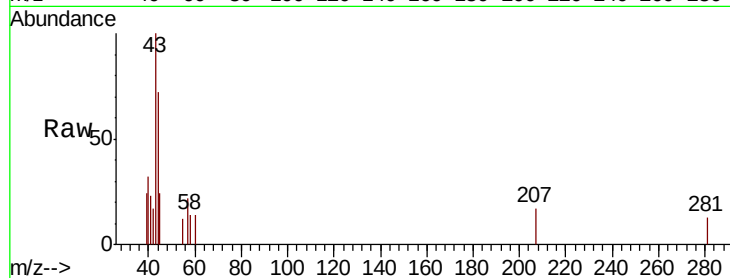




#51
 4-Methyl-2-Pentanone
 Concen: 0.244 ug/l
 RT: 9.98 min Scan# 2553
 Delta R.T. -0.00 min
 Lab File: VN051727.D
 Acq: 8 Oct 2018 11:41

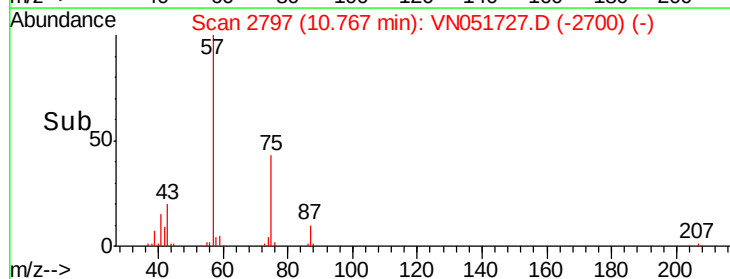
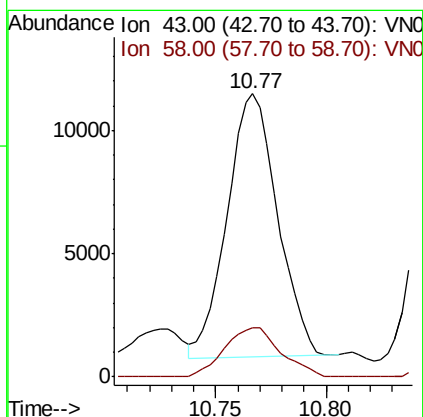
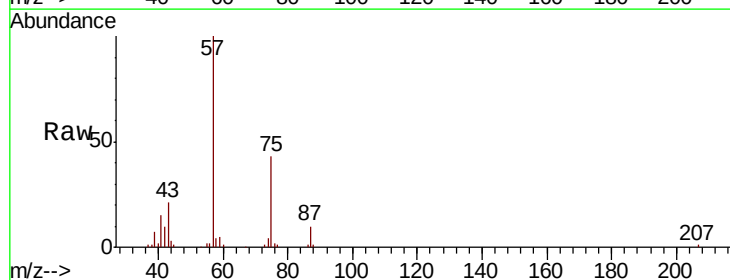
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113584ZHE#02

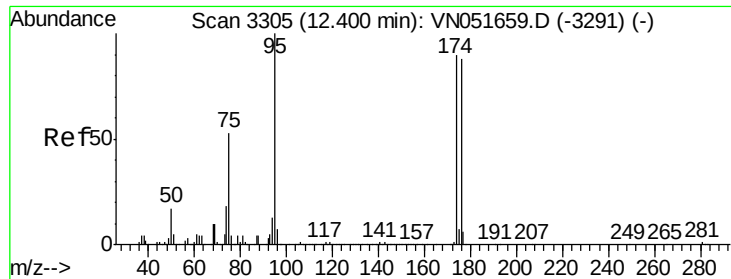
Tot Ion: 43 Resp: 1429
 Ion Ratio Lower Upper
 43 100
 58 0.0 32.2 48.2#



#59
 2-Hexanone
 Concen: 4.268 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN051727.D
 Acq: 8 Oct 2018 11:41

Tgt Ion: 43 Resp: 16967
 Ion Ratio Lower Upper
 43 100
 58 20.9 28.8 86.4#

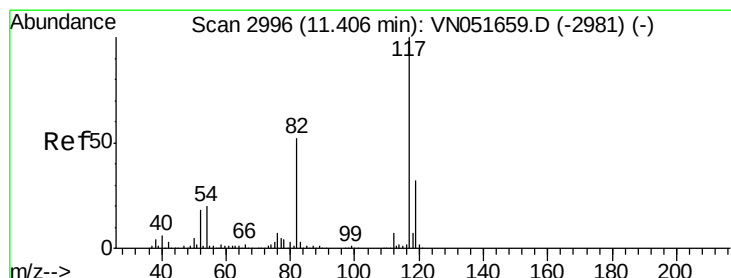
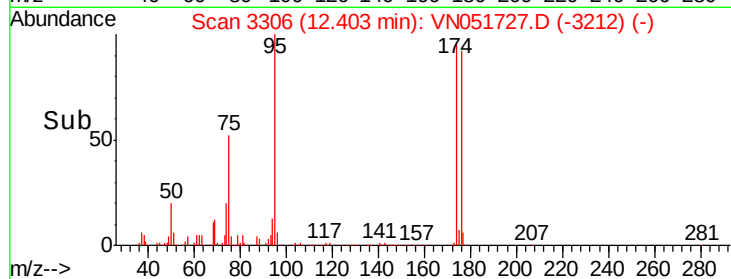
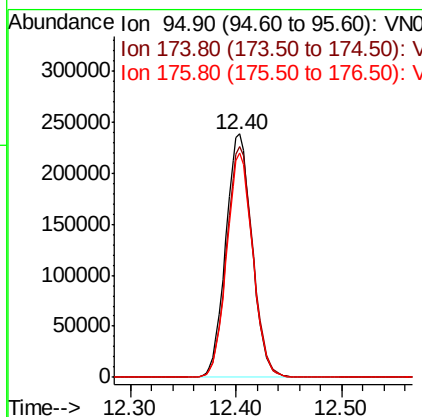
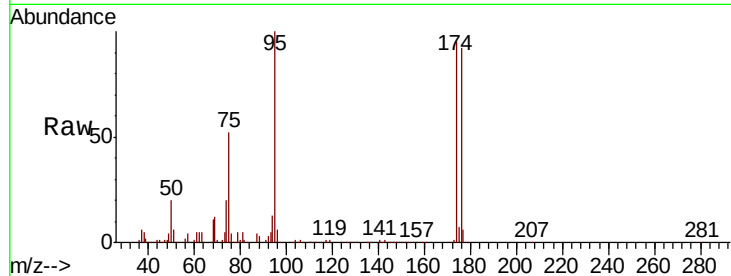




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051727.D
Acq: 8 Oct 2018 11:41

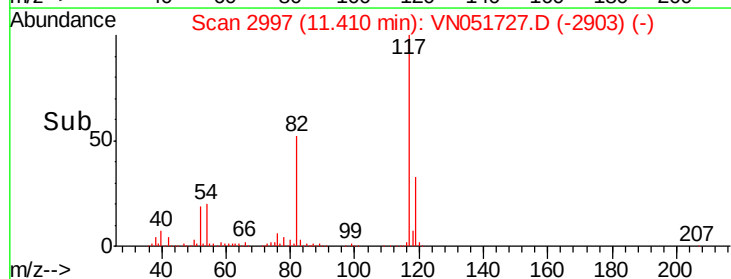
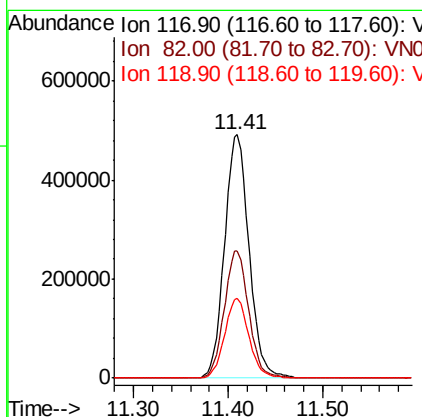
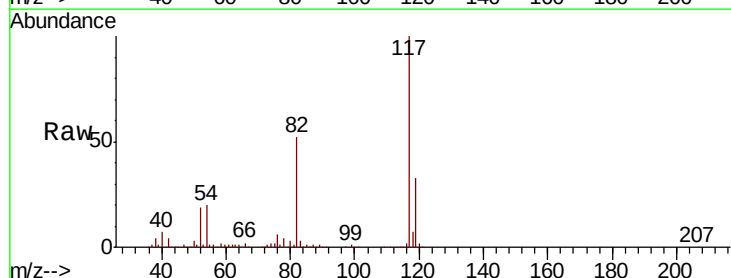
Instrument :
MSVOA_N
ClientSampleId :
PB113584ZHE#02

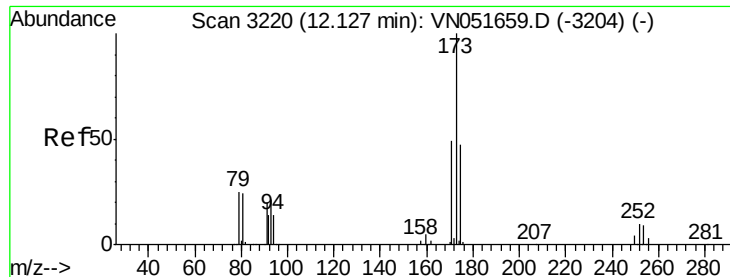
Tot Ion: 95 Resp: 409449
Ion Ratio Lower Upper
95 100
174 95.1 0.0 182.8
176 91.1 0.0 176.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051727.D
Acq: 8 Oct 2018 11:41

Tgt Ion: 117 Resp: 884862
Ion Ratio Lower Upper
117 100
82 52.1 41.3 61.9
119 32.7 25.9 38.9





#71

Bromoform

Concen: 0.509 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN051727.D

Acq: 8 Oct 2018 11:41

Instrument :

MSVOA_N

ClientSampleId :

PB113584ZHE#02

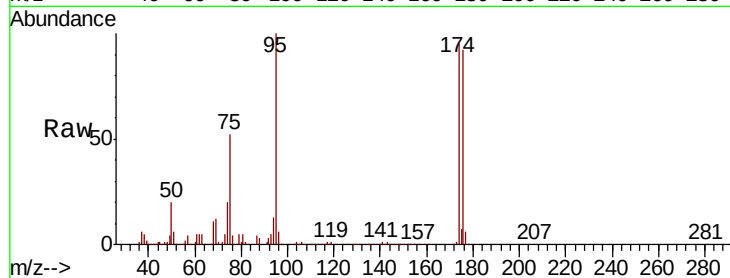
Tot Ion:173 Resp: 3320

Ion Ratio Lower Upper

173 100

175 733.9 24.0 72.0#

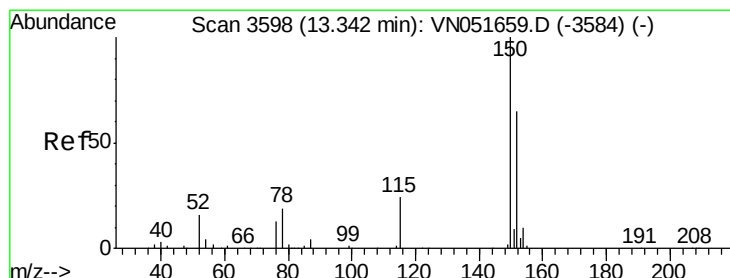
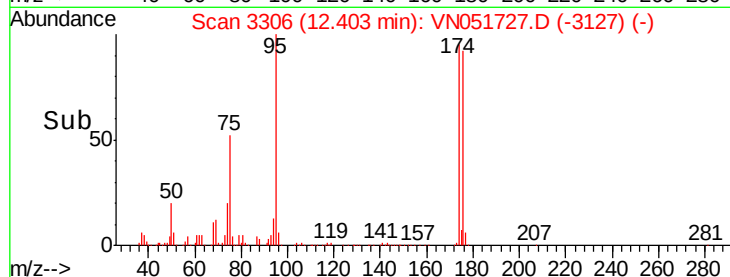
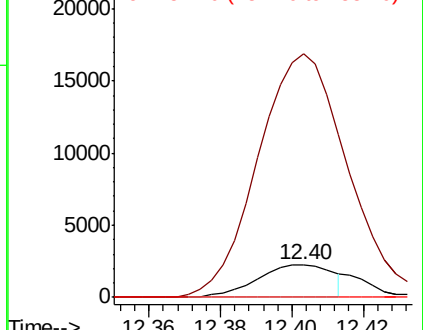
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051727.D

Acq: 8 Oct 2018 11:41

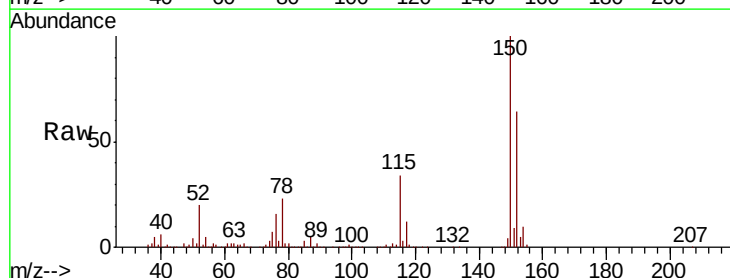
Tgt Ion:152 Resp: 333866

Ion Ratio Lower Upper

152 100

115 53.6 28.6 85.8

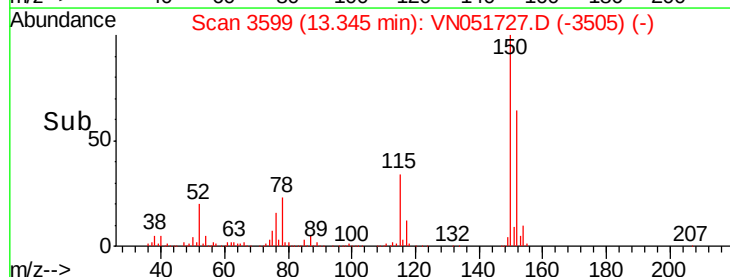
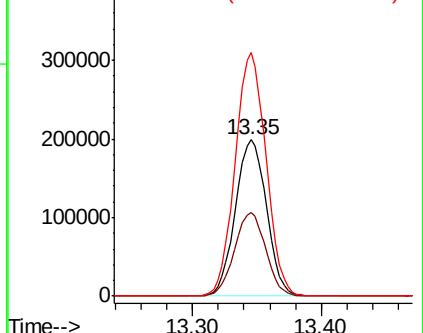
150 154.6 0.0 352.4

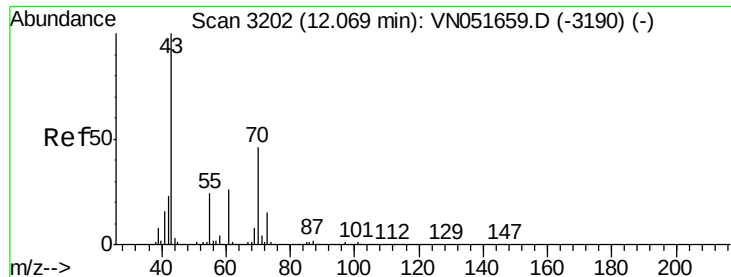


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: Below Cal

RT: 12.09 min Scan# 3208

Delta R.T. 0.02 min

Lab File: VN051727.D

Acq: 8 Oct 2018 11:41

Instrument :

MSVOA_N

ClientSampleId :

PB113584ZHE#02

Tot Ion: 43 Resp: 161

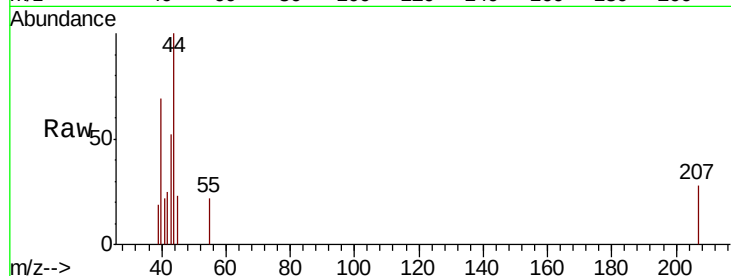
Ion Ratio Lower Upper

43 100

70 0.0 37.1 55.7#

55 63.4 19.1 28.7#

61 0.0 20.8 31.2#

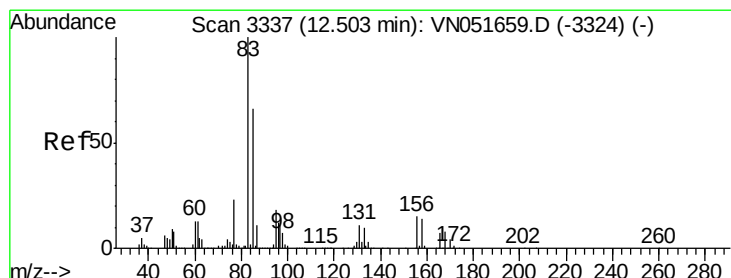
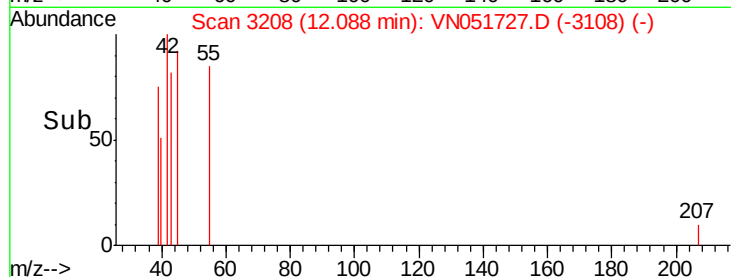
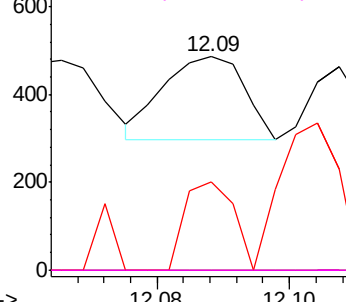


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. -0.10 min

Lab File: VN051727.D

Acq: 8 Oct 2018 11:41

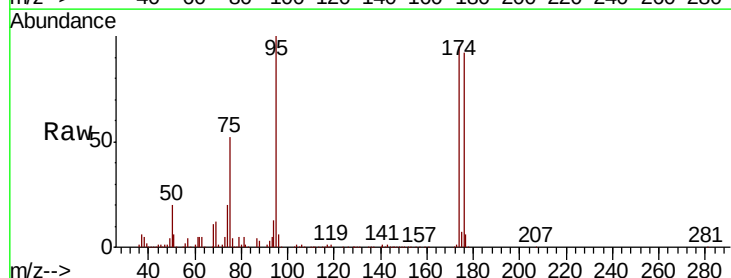
Tgt Ion: 83 Resp: 386

Ion Ratio Lower Upper

83 100

131 184.2 5.7 17.1#

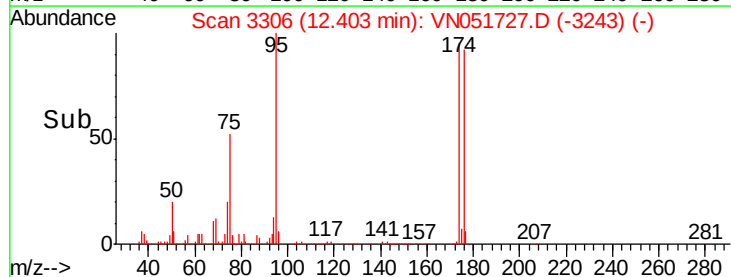
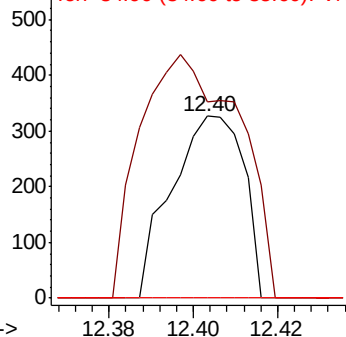
85 0.0 33.0 98.9#

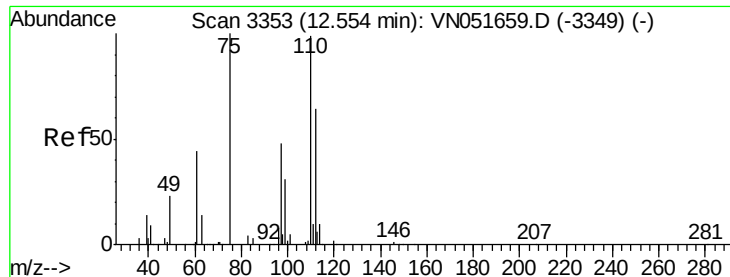


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0





#76

1,2,3-Trichloropropane

Concen: 52.738 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051727.D

Acq: 8 Oct 2018 11:41

Instrument :

MSVOA_N

ClientSampleId :

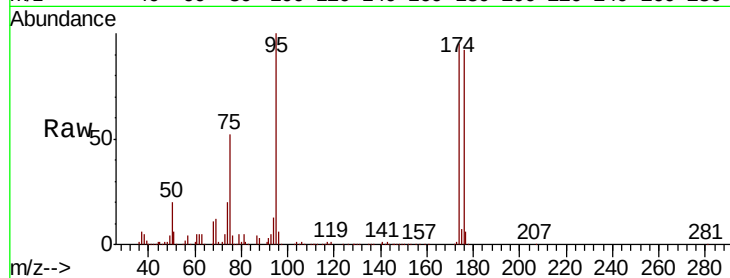
PB113584ZHE#02

Tot Ion: 75 Resp: 217845

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN051659.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN051659.D (-3349) (-)

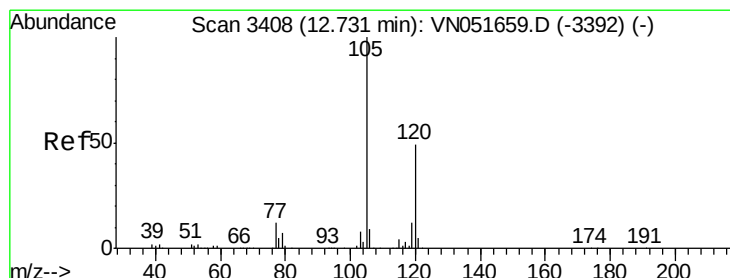
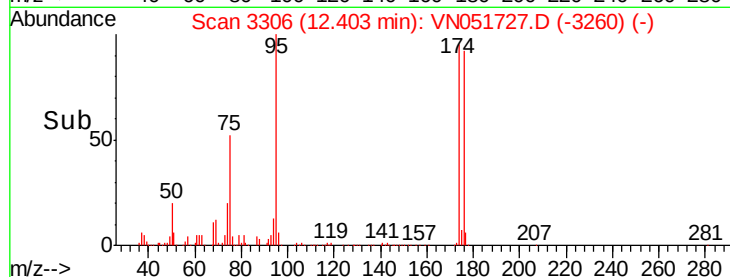
12.40

100000

50000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.253 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051727.D

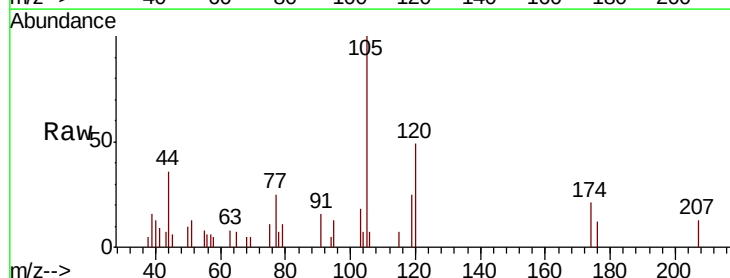
Acq: 8 Oct 2018 11:41

Tgt Ion: 105 Resp: 6065

Ion Ratio Lower Upper

105 100

120 49.8 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): VN051659.D (-3392) (-)

Ion 120.00 (119.70 to 120.70): VN051659.D (-3392) (-)

12.73

4000

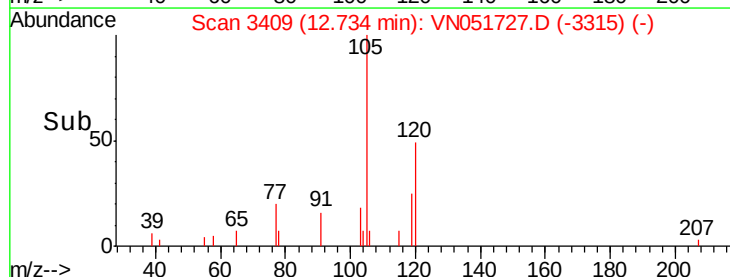
3000

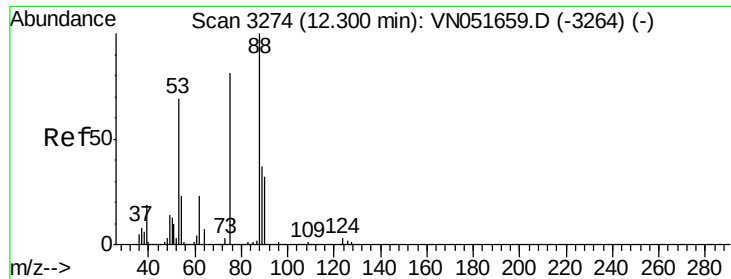
2000

1000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 119.941 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051727.D

Acq: 8 Oct 2018 11:41

Instrument :

MSVOA_N

ClientSampleId :

PB113584ZHE#02

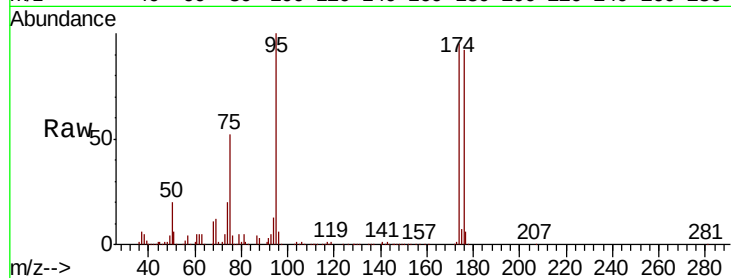
Tot Ion: 75 Resp: 217845

Ion Ratio Lower Upper

75 100

53 0.0 68.6 102.8#

89 0.0 39.4 59.2#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

