

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031720\
 Data File : VN060557.D
 Acq On : 17 Mar 2020 15:26
 Operator : JC/MD
 Sample : PB127594ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127594ZHE#02

Quant Time: Mar 18 06:44:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	203890	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	336118	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	312960	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	139654	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	131976	50.45	ug/l	0.00
Spiked Amount			Recovery	=	100.90%	
35) Dibromofluoromethane	7.57	113	99647	63.87	ug/l	0.00
Spiked Amount			Recovery	=	127.74%	
50) Toluene-d8	10.08	98	413886	52.42	ug/l	0.00
Spiked Amount			Recovery	=	104.84%	
62) 4-Bromofluorobenzene	12.40	95	153291	51.21	ug/l	0.00
Spiked Amount			Recovery	=	102.42%	

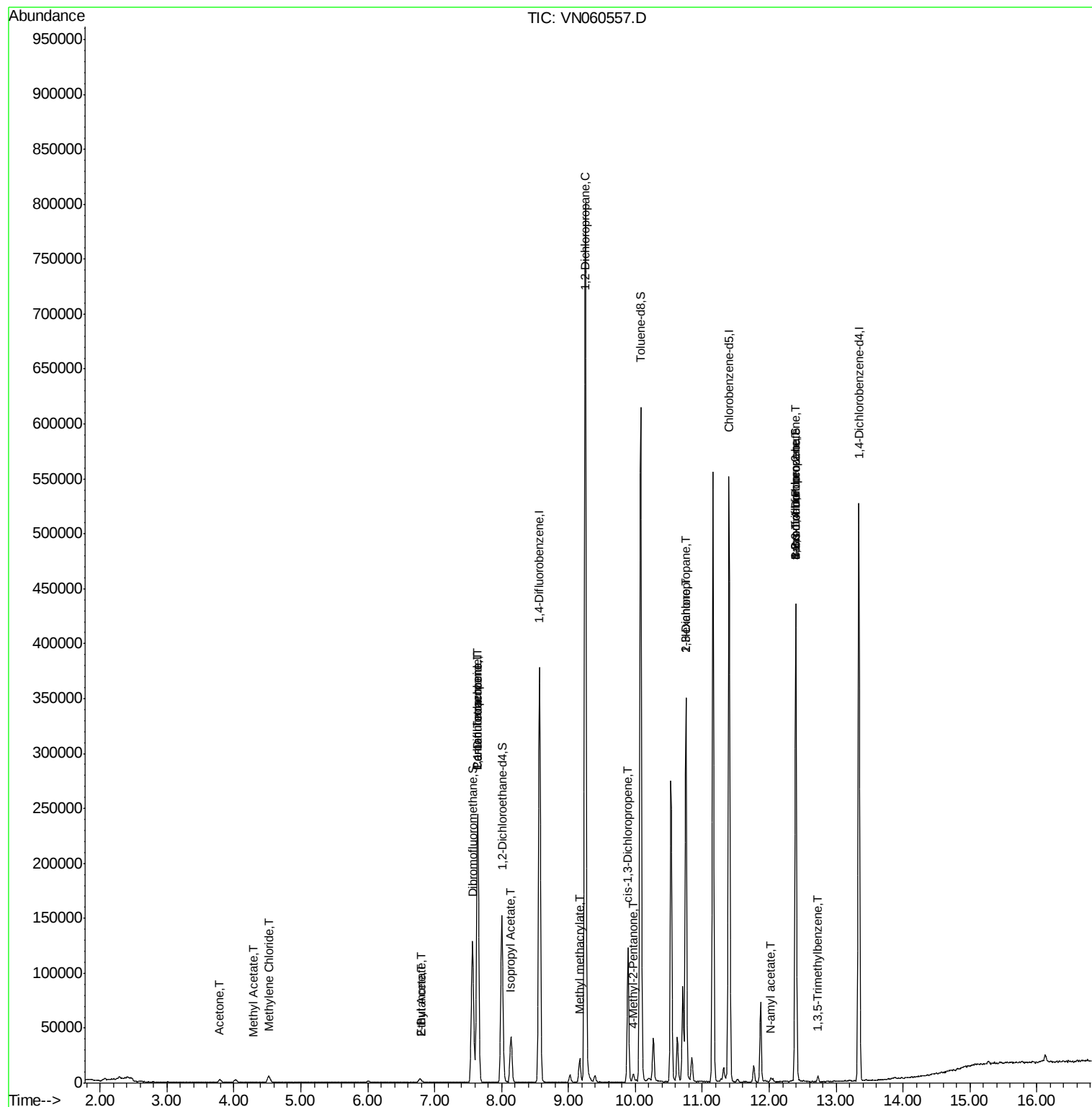
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	4958	5.869	ug/l	94
18) Methyl Acetate	4.29	43	728	0.258	ug/l #	52
20) Methylene Chloride	4.52	84	4571	1.970	ug/l	91
25) 2-Butanone	6.81	43	1277	0.936	ug/l #	49
31) Cyclohexane	7.64	56	4162	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	15777	4.925	ug/l #	48
37) Ethyl Acetate	6.81	43	1277	0.421	ug/l #	68
38) Carbon Tetrachloride	7.64	117	18941	6.073	ug/l #	16
43) Isopropyl Acetate	8.14	43	50939	9.593	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	872	0.358	ug/l #	44
48) Methyl methacrylate	9.16	41	3845	1.588	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	5814	1.931	ug/l	93
54) cis-1,3-Dichloropropene	9.89	75	21700	5.313	ug/l #	58
57) 1,3-Dichloropropane	10.75	76	3212	0.836	ug/l #	42
59) 2-Hexanone	10.75	43	51591	23.338	ug/l #	53
71) Bromoform	12.39	173	583	0.346	ug/l #	1
74) N-amyl acetate	12.03	43	3215	0.711	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	76470	24.957	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3213	0.369	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	76470	68.894	ug/l #	8
95) Naphthalene	15.13	128	98	Below Cal	#	69

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN060557.D

Acq: 17 Mar 2020 15:26

Instrument :

MSVOA_N

ClientSampleId :

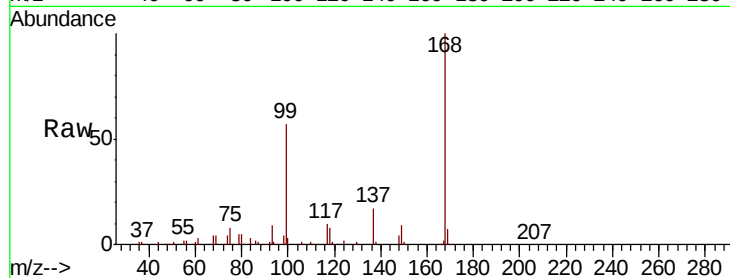
PB127594ZHE#02

Tot Ion:168 Resp: 203890

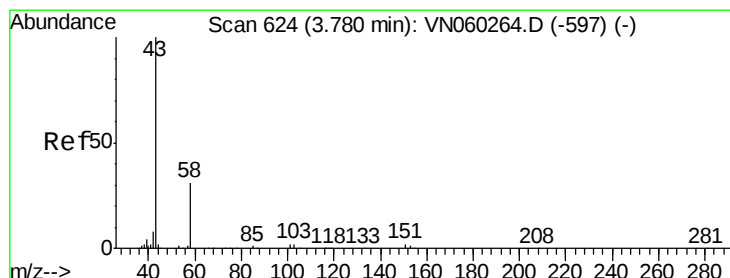
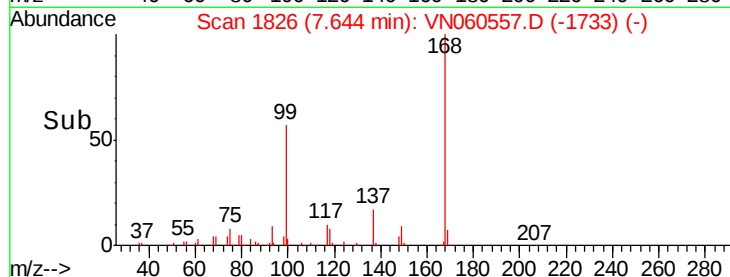
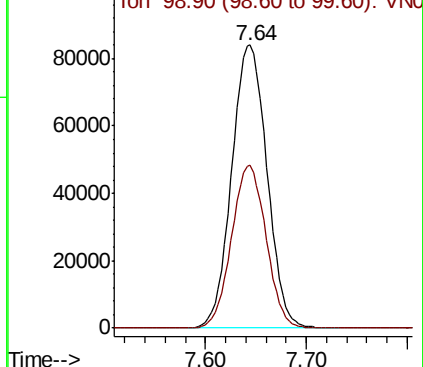
Ion Ratio Lower Upper

168 100

99 57.5 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): VN060557.D (-1733) (-)



#16

Acetone

Concen: 5.869 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060557.D

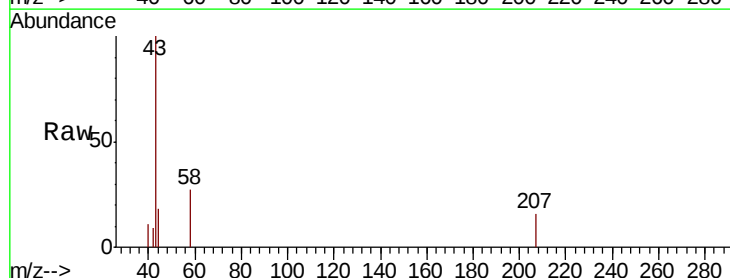
Acq: 17 Mar 2020 15:26

Tgt Ion: 43 Resp: 4958

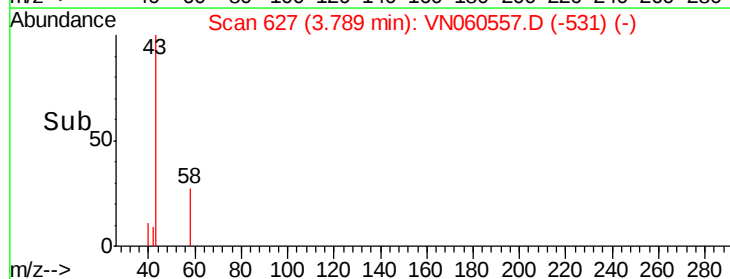
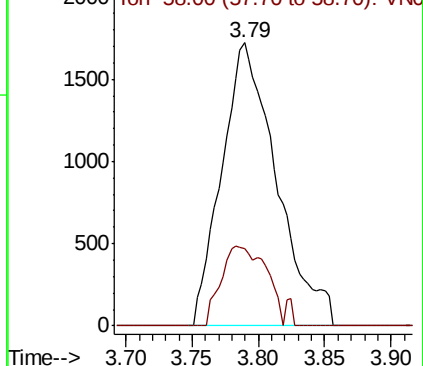
Ion Ratio Lower Upper

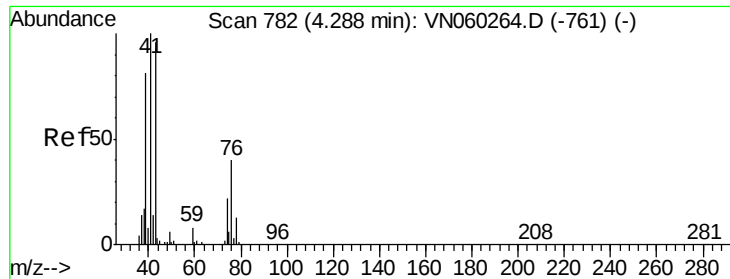
43 100

58 27.3 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN060557.D (-531) (-)

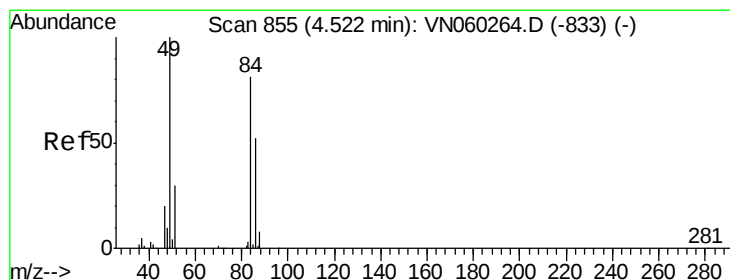
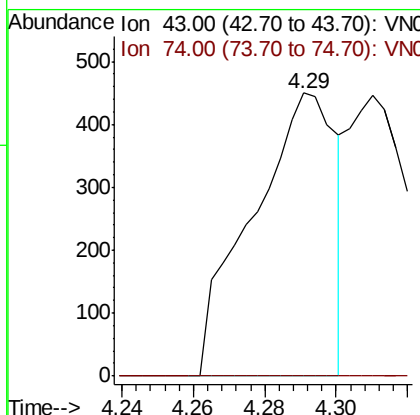
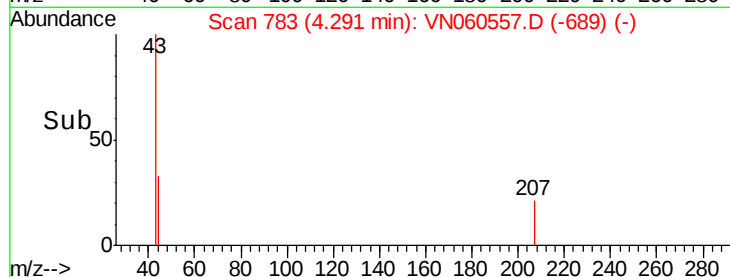
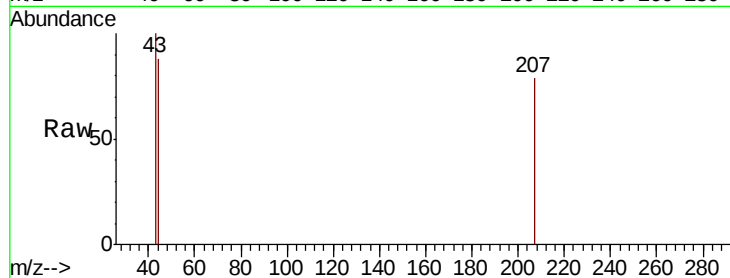




#18
Methyl Acetate
Concen: 0.258 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.00 min
Lab File: VN060557.D
Acq: 17 Mar 2020 15:26

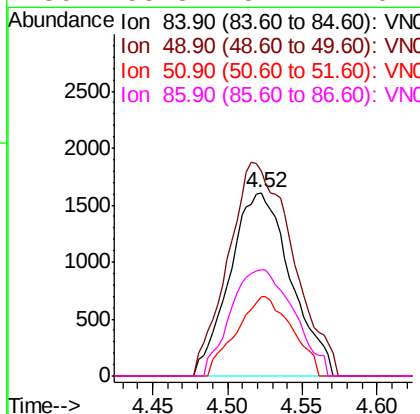
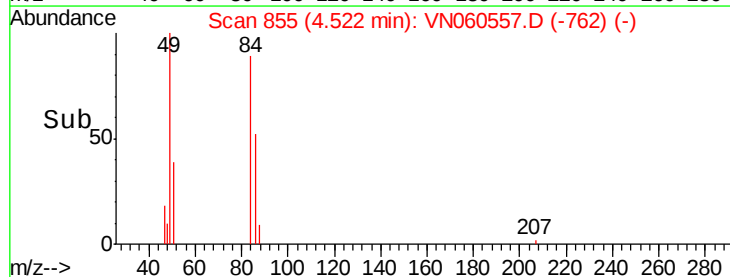
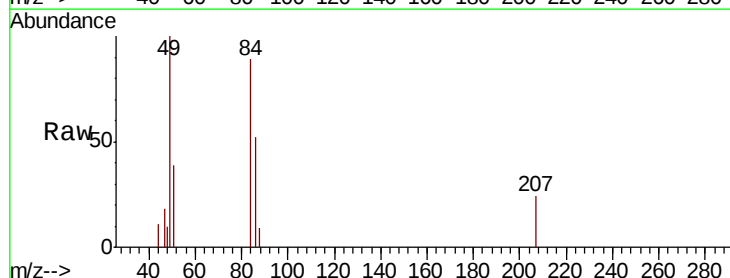
Instrument :
MSVOA_N
ClientSampleId :
PB127594ZHE#02

Tot Ion: 43 Resp: 728
Ion Ratio Lower Upper
43 100
74 0.0 18.8 28.2#



#20
Methylene Chloride
Concen: 1.970 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN060557.D
Acq: 17 Mar 2020 15:26

Tgt Ion: 84 Resp: 4571
Ion Ratio Lower Upper
84 100
49 112.1 99.3 148.9
51 43.3 30.1 45.1
86 58.3 51.1 76.7





#25

2-Butanone

Concen: 0.936 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. 0.01 min

Lab File: VN060557.D

Acq: 17 Mar 2020 15:26

Instrument :

MSVOA_N

ClientSampleId :

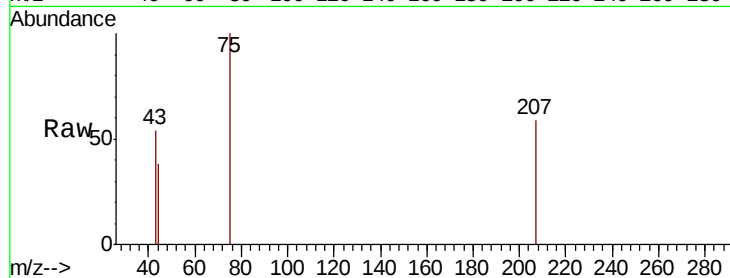
PB127594ZHE#02

Tot Ion: 43 Resp: 1277

Ion Ratio Lower Upper

43 100

72 0.0 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.81

400

300

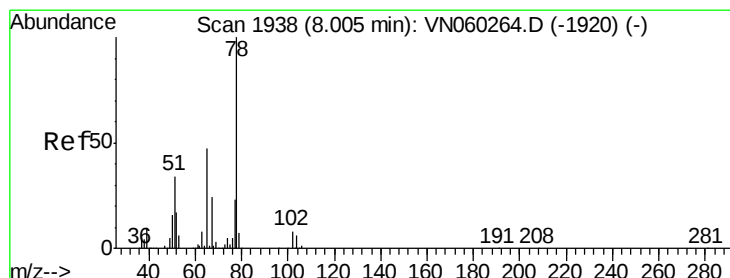
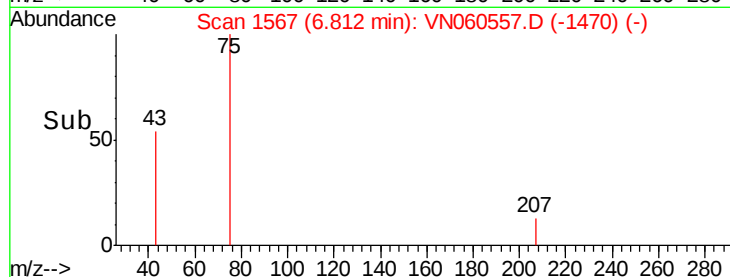
200

100

0

6.75 6.80 6.85

Time-->



#33

1,2-Dichloroethane-d4

Concen: 50.451 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN060557.D

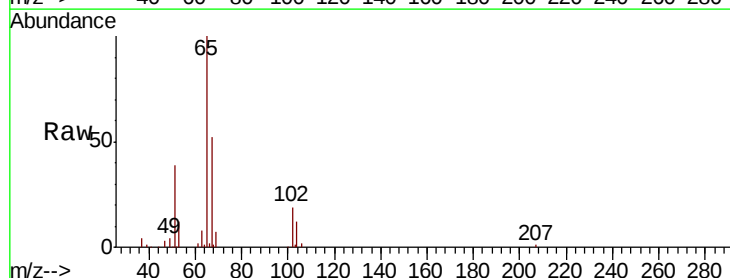
Acq: 17 Mar 2020 15:26

Tgt Ion: 65 Resp: 131976

Ion Ratio Lower Upper

65 100

67 52.5 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.00

60000

50000

40000

30000

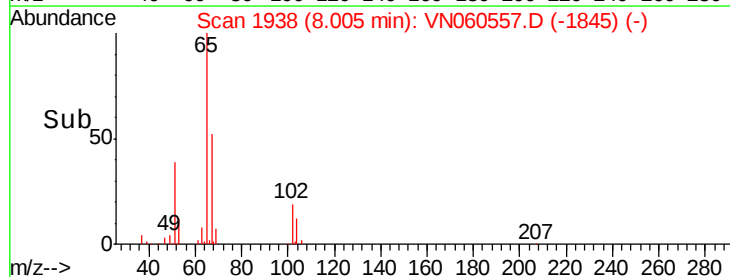
20000

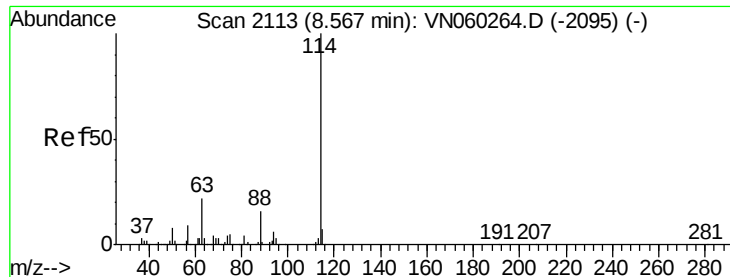
10000

0

7.90 8.00 8.10

Time-->

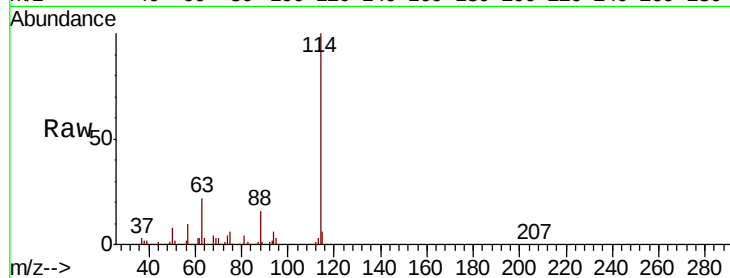




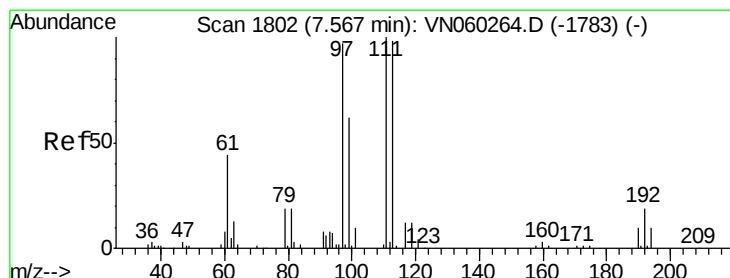
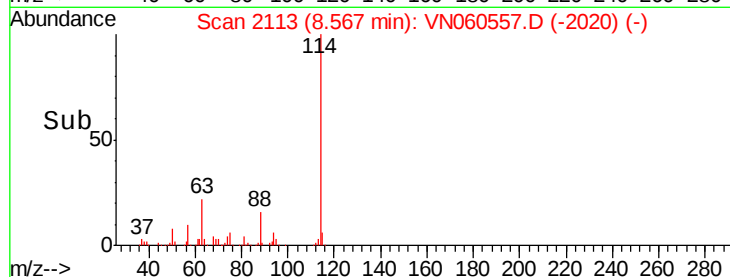
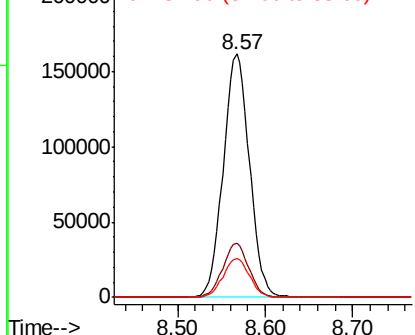
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2113
Delta R.T. -0.00 min
Lab File: VN060557.D
Acq: 17 Mar 2020 15:26

Instrument :
MSVOA_N
ClientSampleId :
PB127594ZHE#02

Tot Ion:114 Resp: 336118
Ion Ratio Lower Upper
114 100
63 22.2 0.0 43.2
88 15.8 0.0 31.6

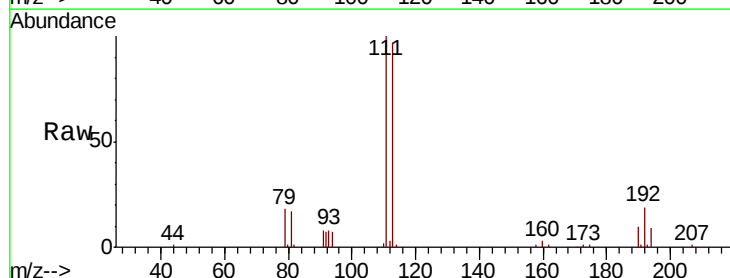


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

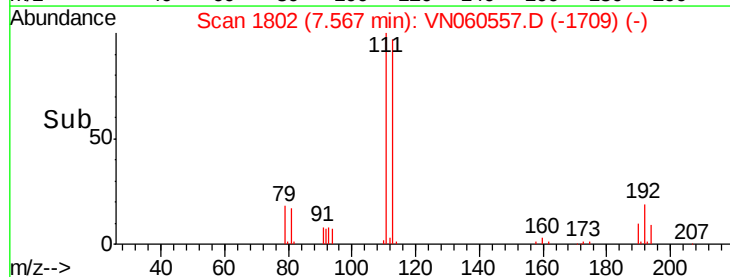
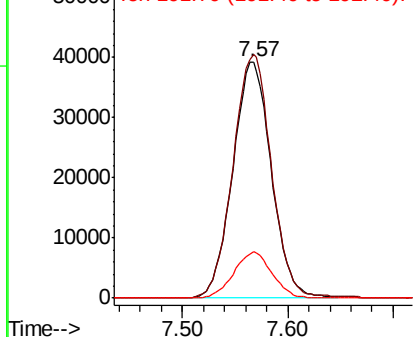


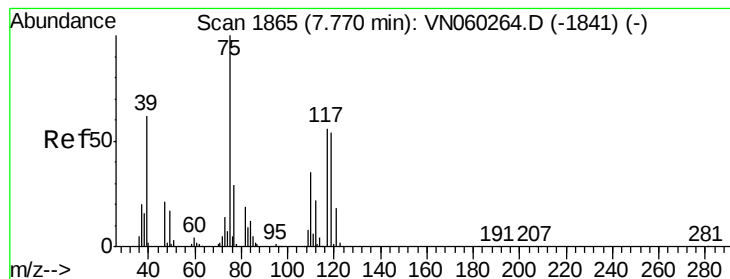
#35
Dibromofluoromethane
Concen: 63.870 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN060557.D
Acq: 17 Mar 2020 15:26

Tgt Ion:113 Resp: 99647
Ion Ratio Lower Upper
113 100
111 103.3 82.4 123.6
192 19.3 16.2 24.2



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.925 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060557.D

Acq: 17 Mar 2020 15:26

Instrument :

MSVOA_N

ClientSampleId :

PB127594ZHE#02

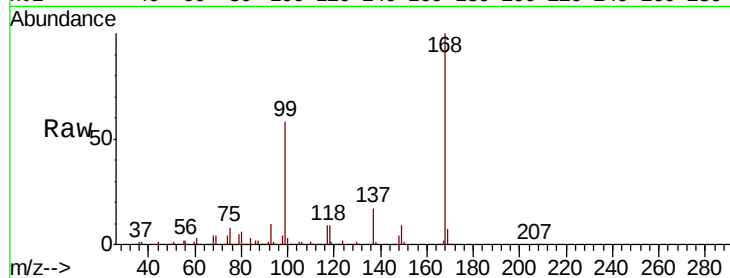
Tot Ion: 75 Resp: 15777

Ion Ratio Lower Upper

75 100

110 6.7 17.3 52.0#

77 0.0 24.2 36.2#

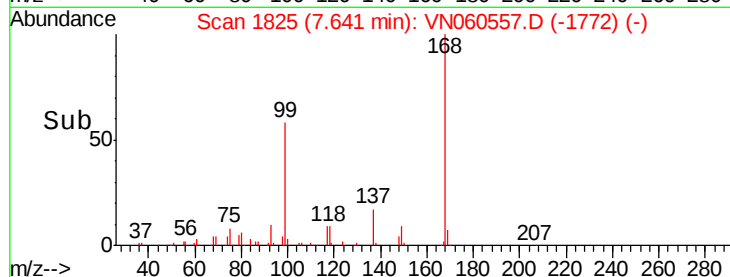


Abundance Ion 74.90 (74.60 to 75.60): VN060264.D (-1841) (-)

Ion 109.90 (109.60 to 110.60): VN060264.D (-1841) (-)

Ion 76.90 (76.60 to 77.60): VN060264.D (-1841) (-)

Time-->

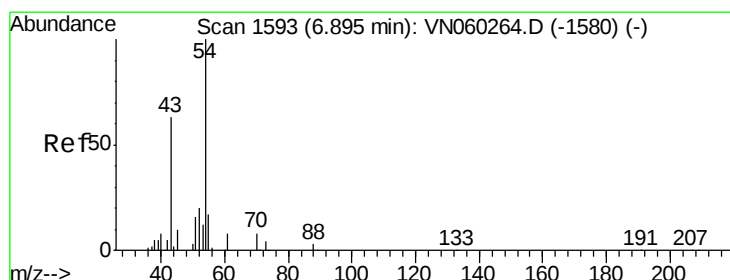


Abundance Ion 74.90 (74.60 to 75.60): VN060557.D (-1772) (-)

Ion 109.90 (109.60 to 110.60): VN060557.D (-1772) (-)

Ion 76.90 (76.60 to 77.60): VN060557.D (-1772) (-)

Time-->



#37

Ethyl Acetate

Concen: 0.421 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. -0.08 min

Lab File: VN060557.D

Acq: 17 Mar 2020 15:26

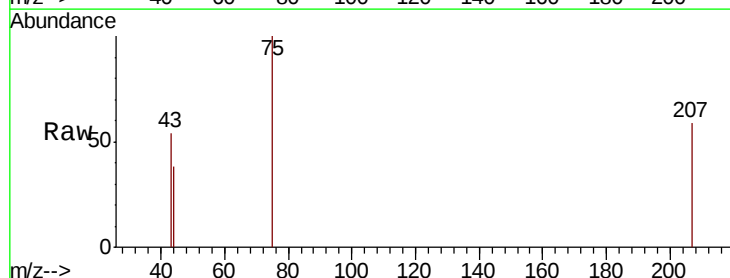
Tgt Ion: 43 Resp: 1277

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 8.4 12.6#

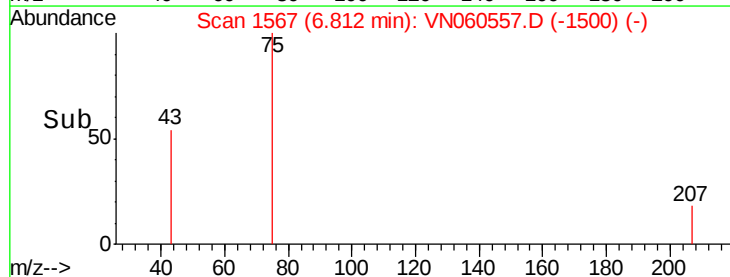


Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-1580) (-)

Ion 60.90 (60.60 to 61.60): VN060264.D (-1580) (-)

Ion 70.00 (69.70 to 70.70): VN060264.D (-1580) (-)

Time-->

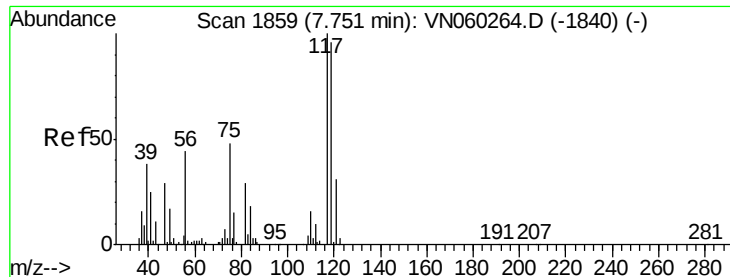


Abundance Ion 43.00 (42.70 to 43.70): VN060557.D (-1500) (-)

Ion 60.90 (60.60 to 61.60): VN060557.D (-1500) (-)

Ion 70.00 (69.70 to 70.70): VN060557.D (-1500) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 6.073 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060557.D

Acq: 17 Mar 2020 15:26

Instrument :

MSVOA_N

ClientSampleId :

PB127594ZHE#02

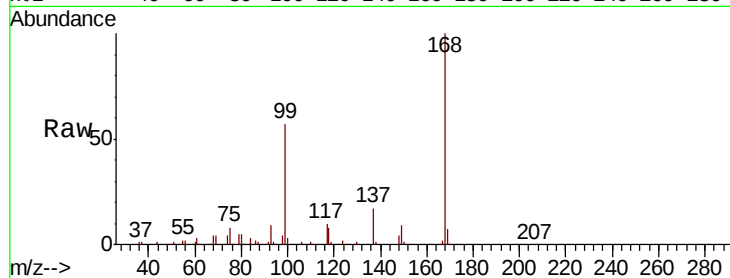
Tot Ion:117 Resp: 18941

Ion Ratio Lower Upper

117 100

119 5.3 76.7 115.1#

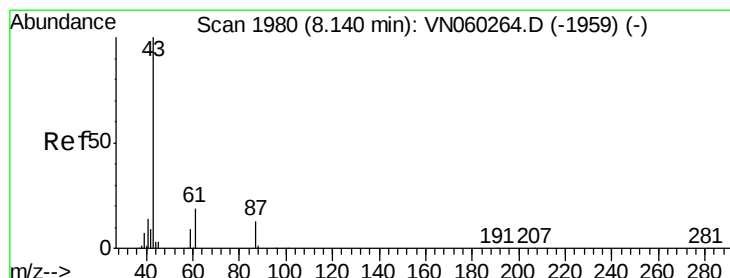
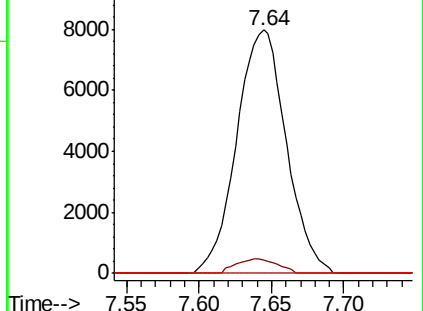
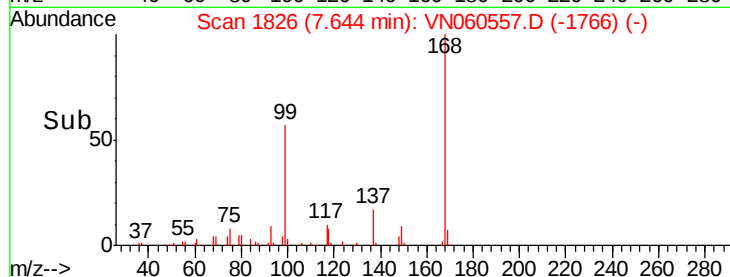
121 0.0 24.5 36.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 9.593 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060557.D

Acq: 17 Mar 2020 15:26

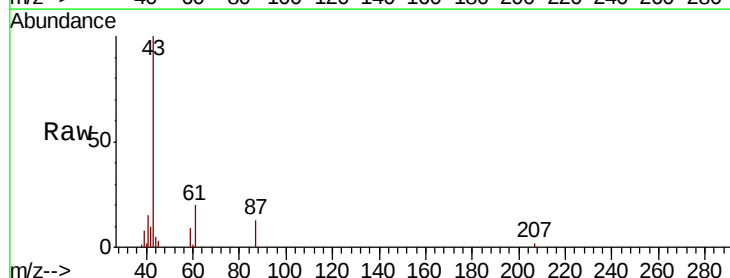
Tgt Ion: 43 Resp: 50939

Ion Ratio Lower Upper

43 100

61 19.3 20.9 31.3#

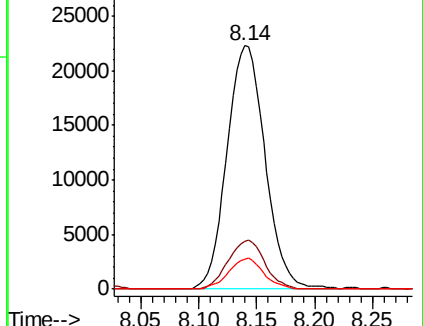
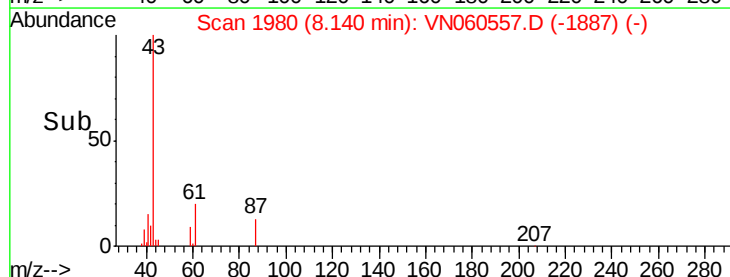
87 11.5 10.6 16.0

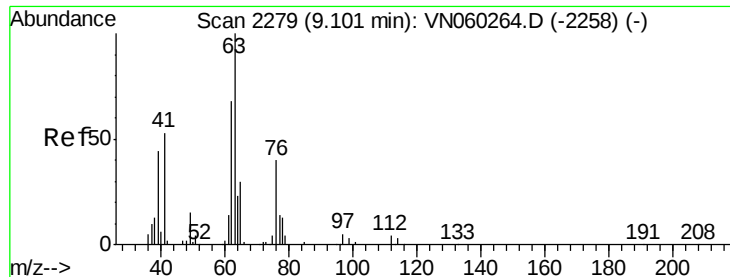


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.358 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060557.D

Acq: 17 Mar 2020 15:26

Instrument :

MSVOA_N

ClientSampleId :

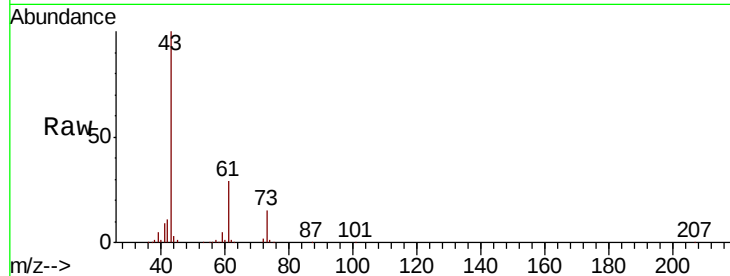
PB127594ZHE#02

Tot Ion: 63 Resp: 872

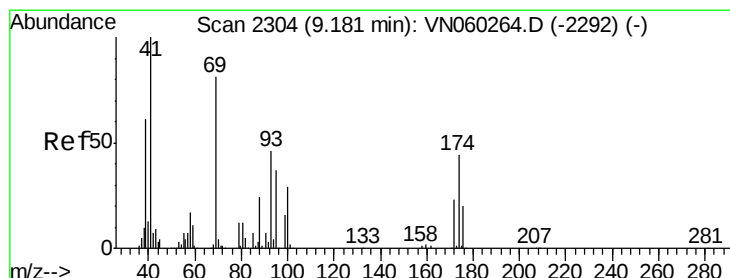
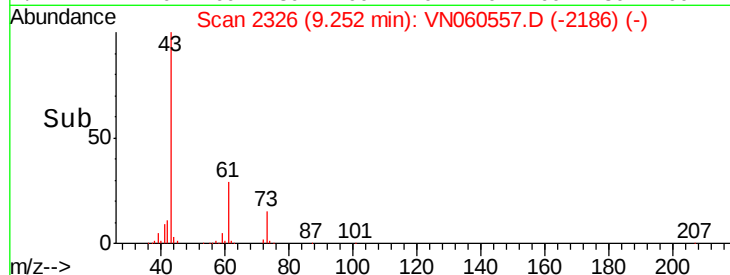
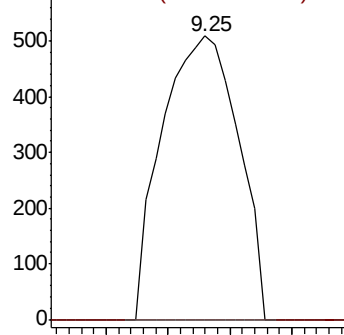
Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VNO
Ion 64.90 (64.60 to 65.60): VNO



#48

Methyl methacrylate

Concen: 1.588 ug/l

RT: 9.16 min Scan# 2297

Delta R.T. -0.02 min

Lab File: VN060557.D

Acq: 17 Mar 2020 15:26

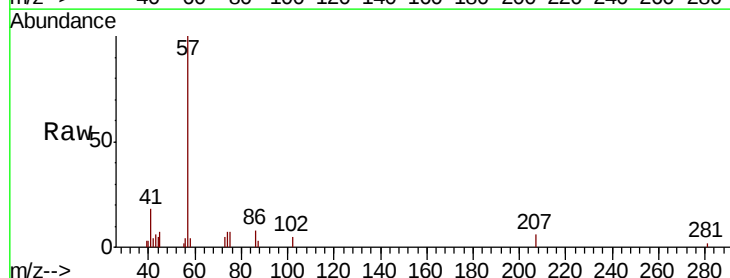
Tgt Ion: 41 Resp: 3845

Ion Ratio Lower Upper

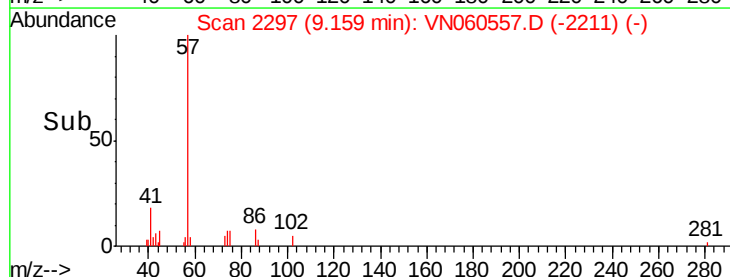
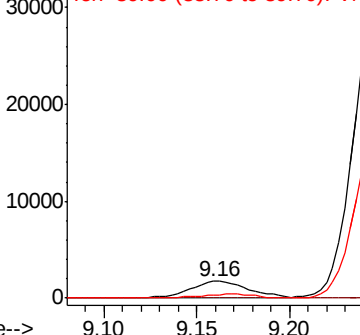
41 100

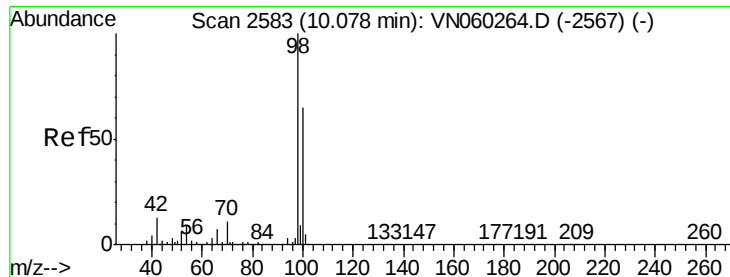
69 0.0 66.7 100.1#

39 0.0 50.1 75.1#



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





#50

Toluene-d8

Concen: 52.416 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN060557.D

Acq: 17 Mar 2020 15:26

Instrument :

MSVOA_N

ClientSampleId :

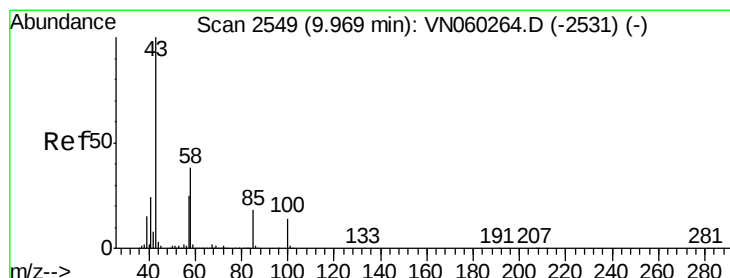
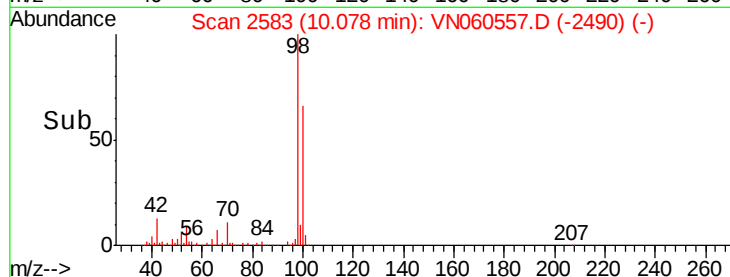
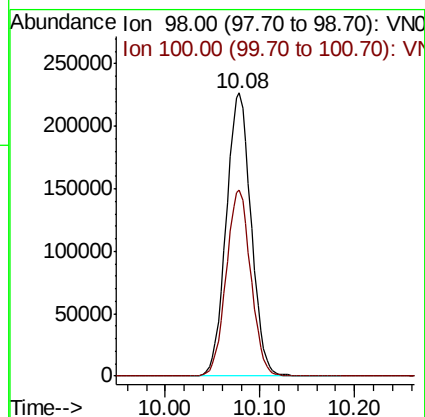
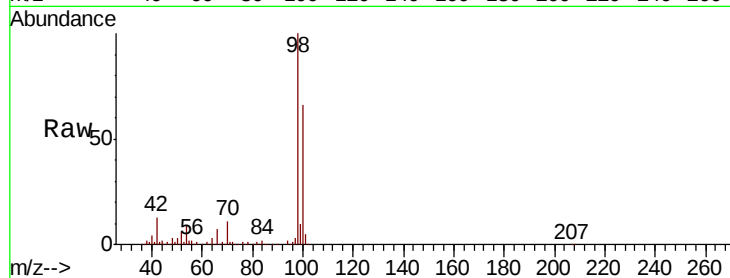
PB127594ZHE#02

Tot Ion: 98 Resp: 413886

Ion Ratio Lower Upper

98 100

100 65.2 52.2 78.2



#51

4-Methyl-2-Pentanone

Concen: 1.931 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060557.D

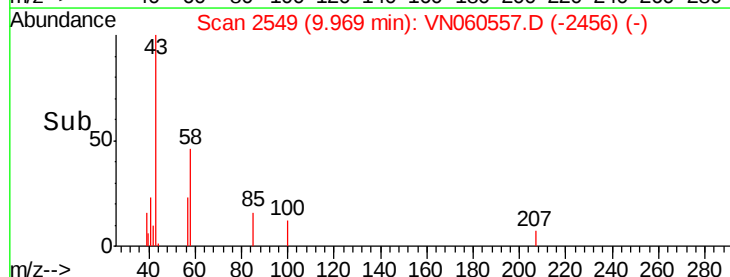
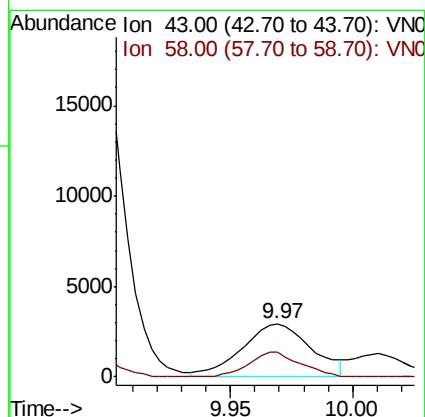
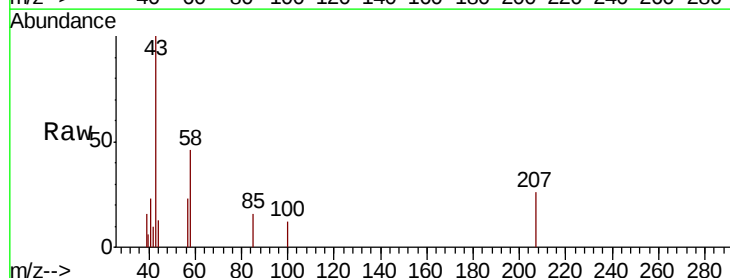
Acq: 17 Mar 2020 15:26

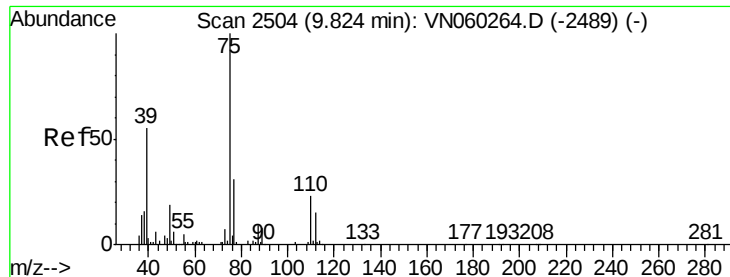
Tgt Ion: 43 Resp: 5814

Ion Ratio Lower Upper

43 100

58 34.6 30.9 46.3





#54

cis-1,3-Dichloropropene

Concen: 5.313 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060557.D

Acq: 17 Mar 2020 15:26

Instrument :

MSVOA_N

ClientSampleId :

PB127594ZHE#02

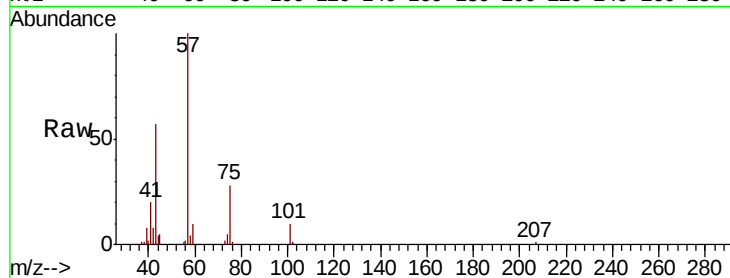
Tot Ion: 75 Resp: 21700

Ion Ratio Lower Upper

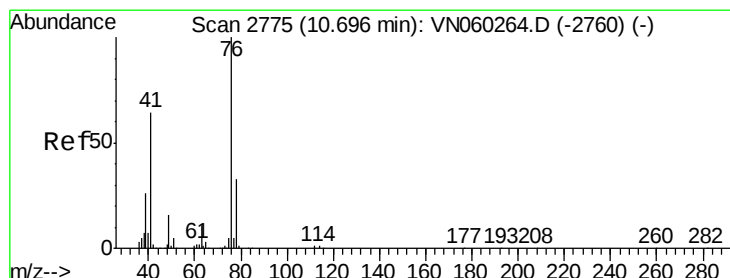
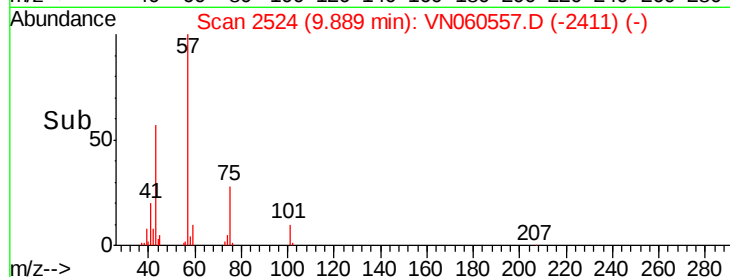
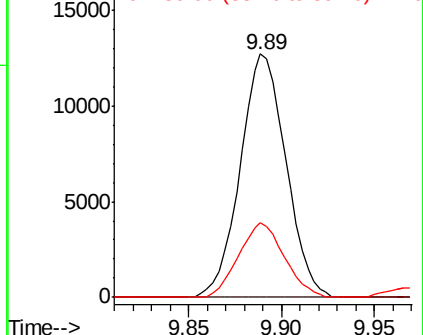
75 100

77 0.0 24.8 37.2#

39 30.5 43.8 65.8#



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: 0.836 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060557.D

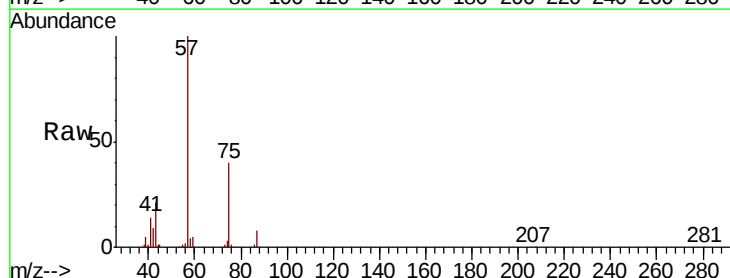
Acq: 17 Mar 2020 15:26

Tgt Ion: 76 Resp: 3212

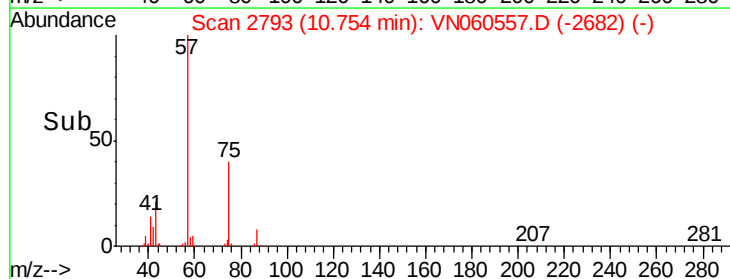
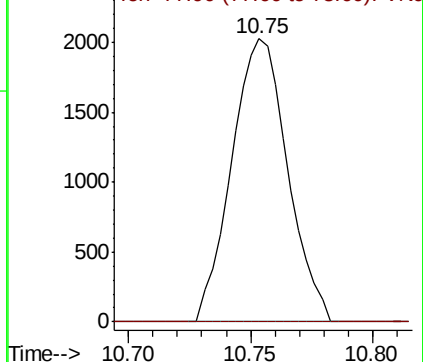
Ion Ratio Lower Upper

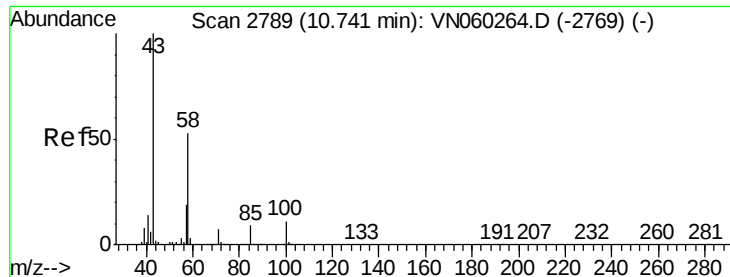
76 100

78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VNO
Ion 77.90 (77.60 to 78.60): VNO

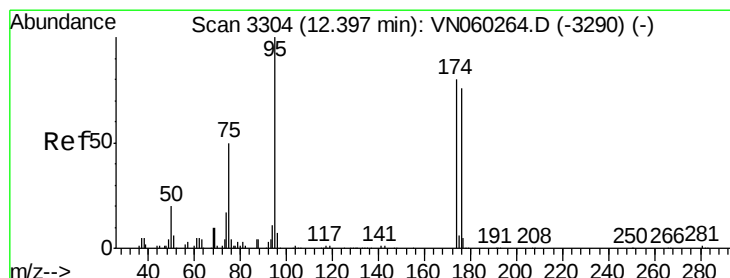
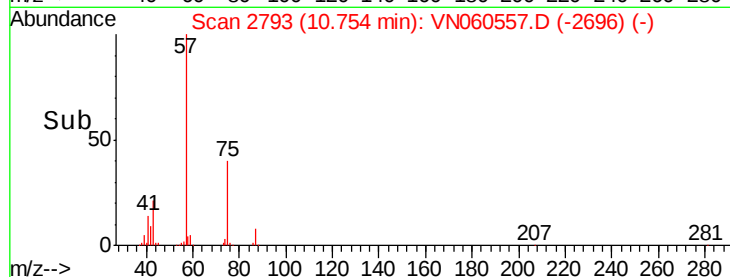
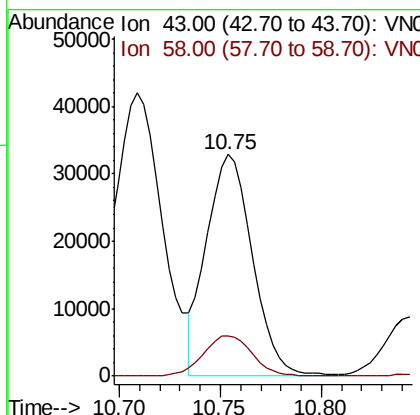
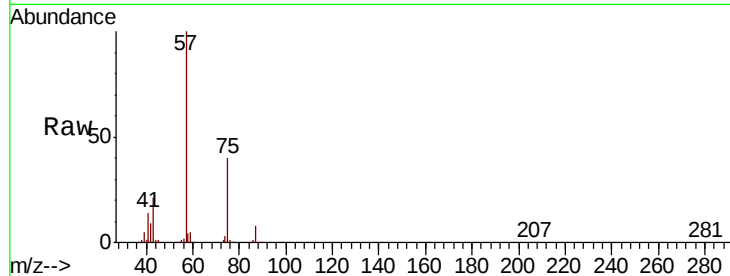




#59
2-Hexanone
Concen: 23.338 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060557.D
Acq: 17 Mar 2020 15:26

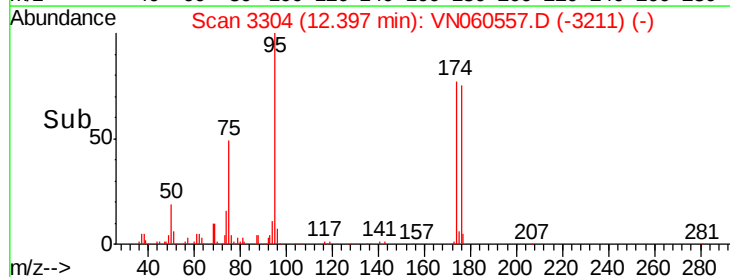
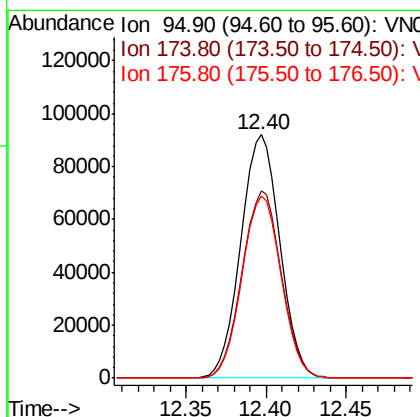
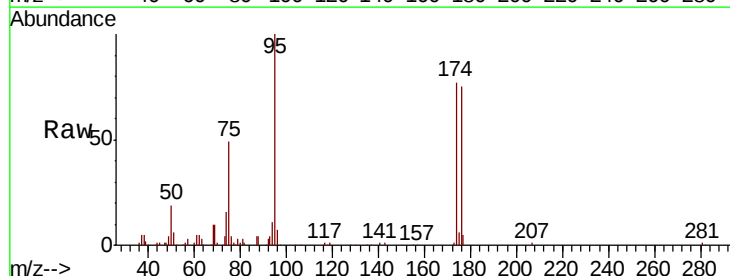
Instrument :
MSVOA_N
ClientSampleId :
PB127594ZHE#02

Tot Ion: 43 Resp: 51591
Ion Ratio Lower Upper
43 100
58 19.5 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 51.213 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060557.D
Acq: 17 Mar 2020 15:26

Tgt Ion: 95 Resp: 153291
Ion Ratio Lower Upper
95 100
174 77.5 0.0 159.2
176 75.3 0.0 153.8

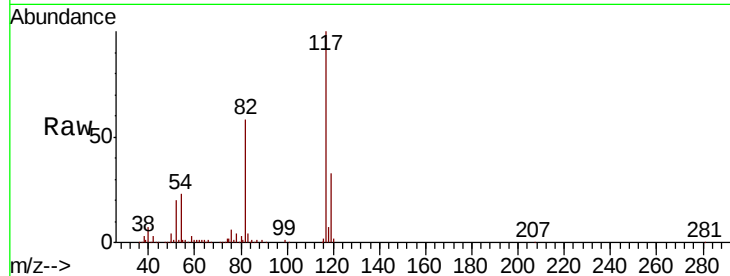




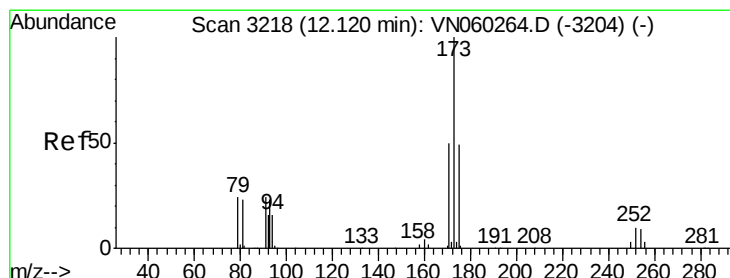
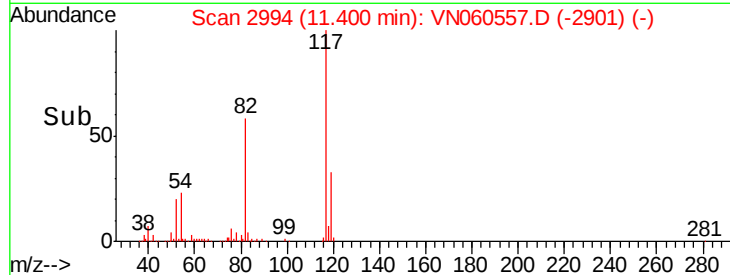
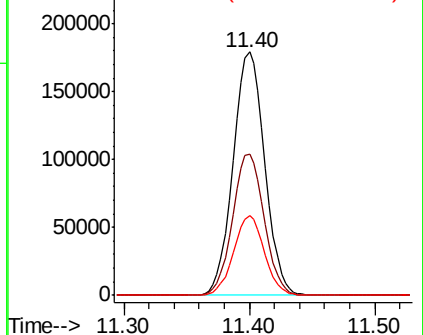
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060557.D
Acq: 17 Mar 2020 15:26

Instrument :
MSVOA_N
ClientSampleId :
PB127594ZHE#02

Tot Ion:117 Resp: 312960
Ion Ratio Lower Upper
117 100
82 58.2 45.8 68.6
119 32.5 25.8 38.8

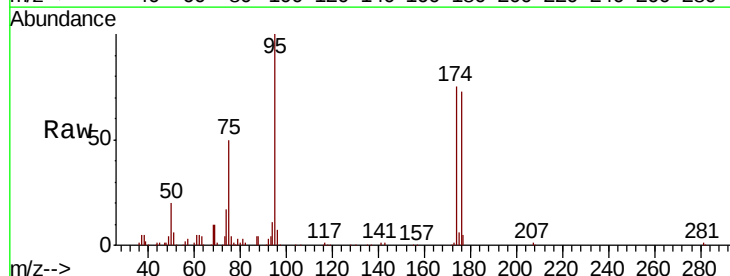


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

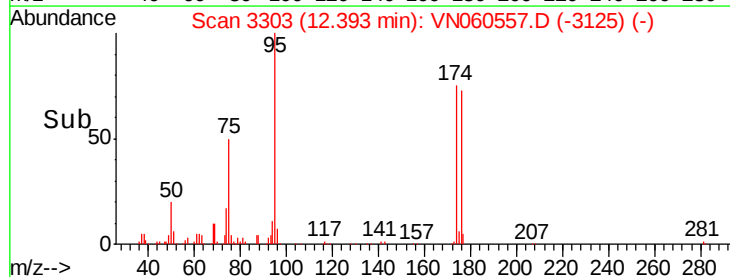
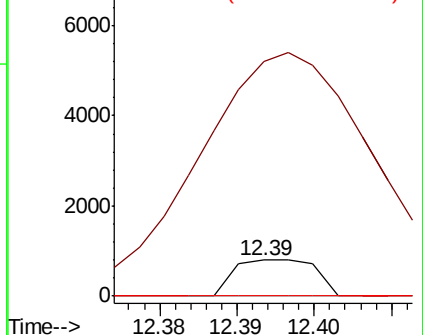


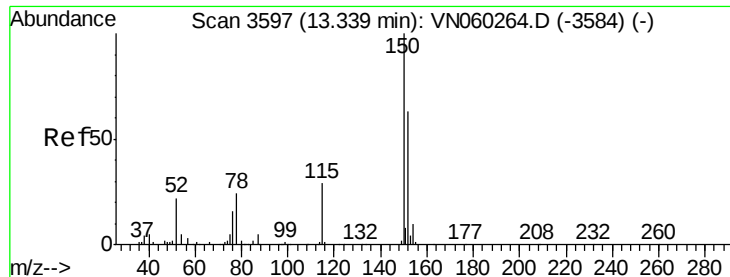
#71
Bromoform
Concen: 0.346 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN060557.D
Acq: 17 Mar 2020 15:26

Tgt Ion:173 Resp: 583
Ion Ratio Lower Upper
173 100
175 1278.9 24.1 72.2#
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# 3597

Delta R.T. -0.00 min

Lab File: VN060557.D

Acq: 17 Mar 2020 15:26

Instrument :

MSVOA_N

ClientSampleId :

PB127594ZHE#02

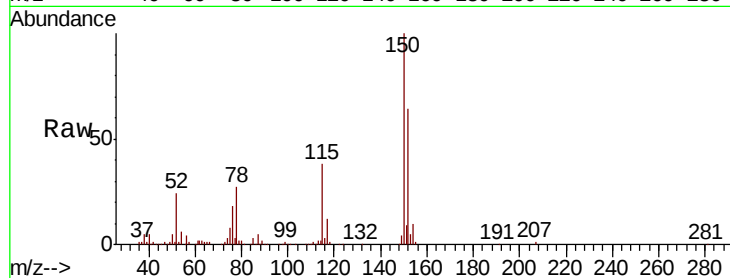
Tot Ion:152 Resp: 139654

Ion Ratio Lower Upper

152 100

115 60.7 30.0 90.0

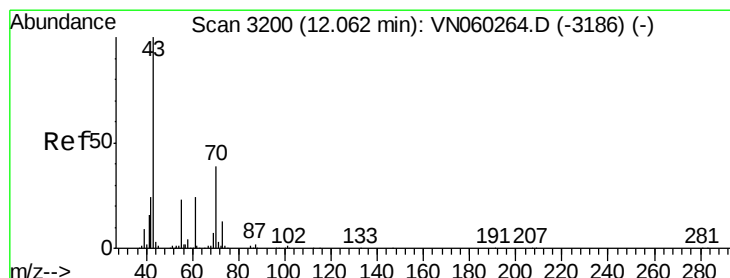
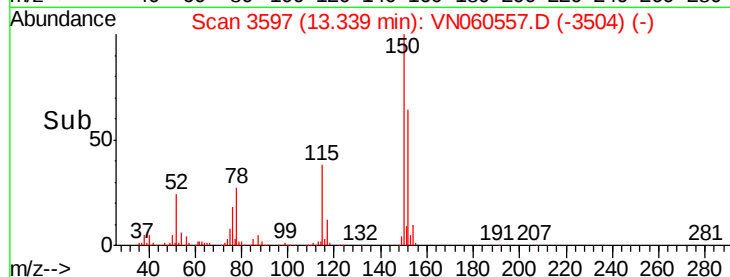
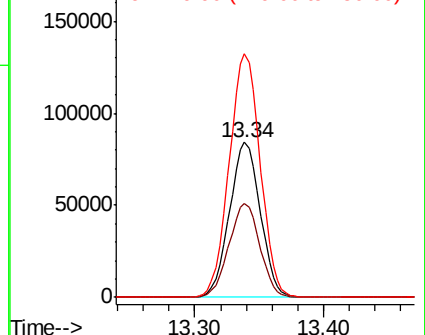
150 158.0 0.0 349.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.711 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN060557.D

Acq: 17 Mar 2020 15:26

Tgt Ion: 43 Resp: 3215

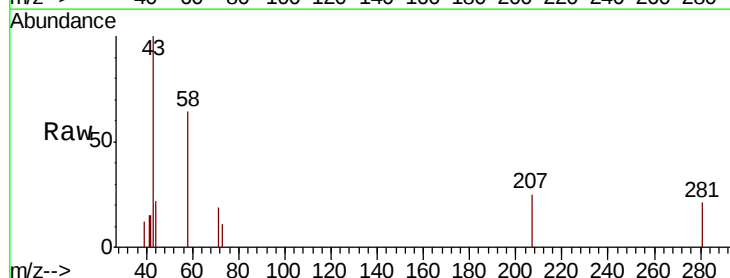
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

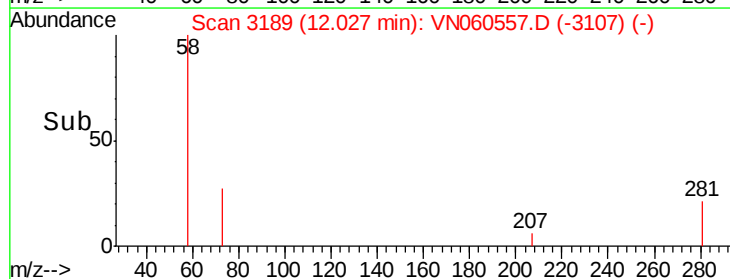
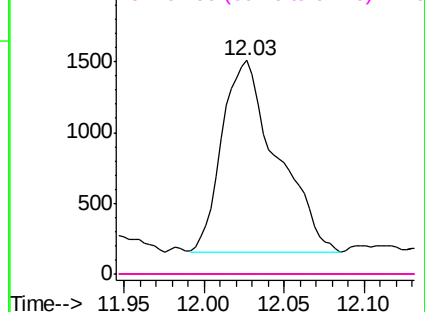


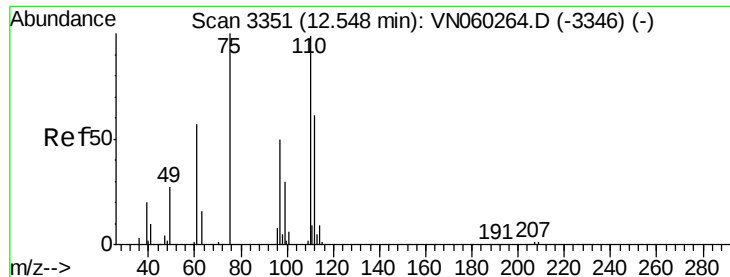
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 24.957 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060557.D

Acq: 17 Mar 2020 15:26

Instrument :

MSVOA_N

ClientSampleId :

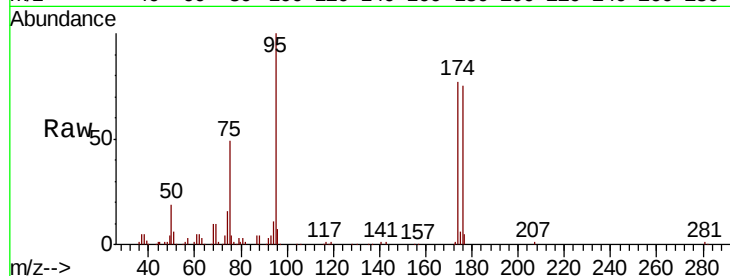
PB127594ZHE#02

Tot Ion: 75 Resp: 76470

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060264.D (-3346) (-)

Ion 77.00 (76.70 to 77.70): VN060264.D (-3346) (-)

12.40

50000

40000

30000

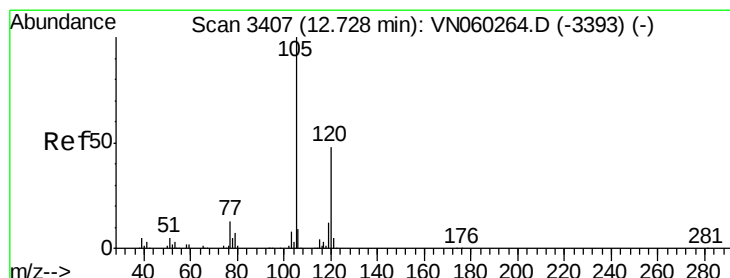
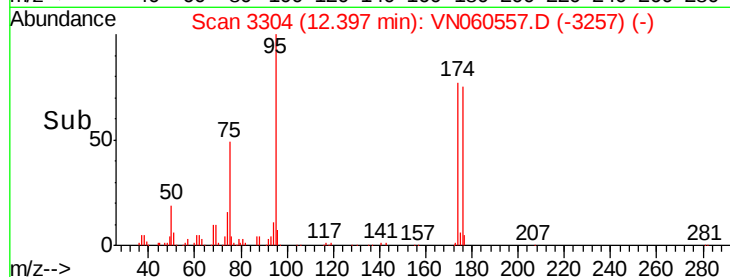
20000

10000

0

12.35 12.40 12.45

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.369 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN060557.D

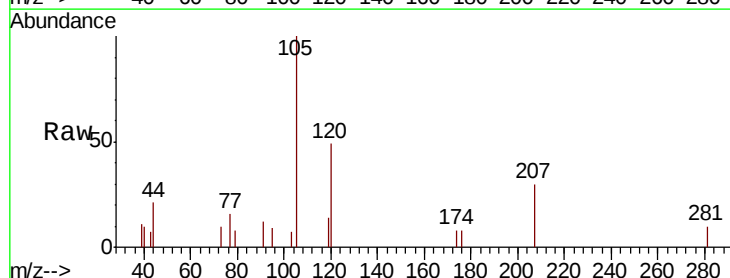
Acq: 17 Mar 2020 15:26

Tgt Ion: 105 Resp: 3213

Ion Ratio Lower Upper

105 100

120 47.1 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN060264.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN060264.D (-3393) (-)

12.73

2000

1500

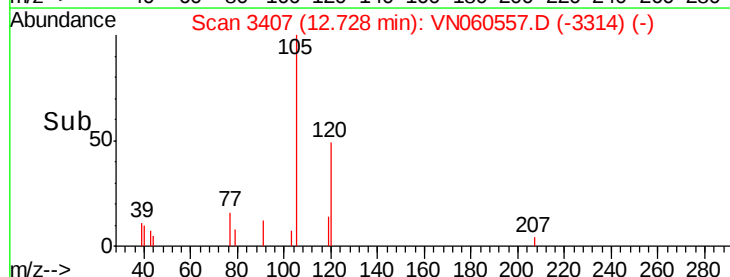
1000

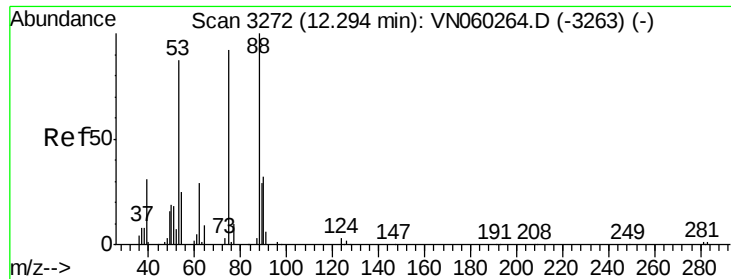
500

0

12.70 12.75

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 68.894 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060557.D

Acq: 17 Mar 2020 15:26

Instrument :

MSVOA_N

ClientSampleId :

PB127594ZHE#02

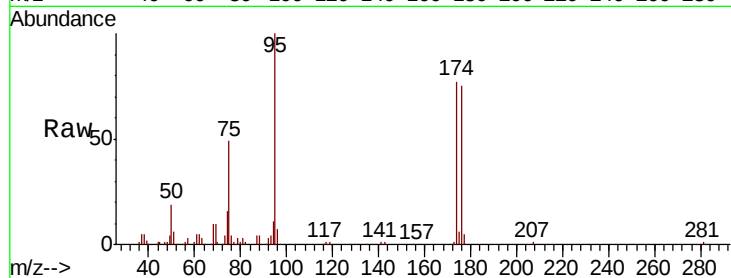
Tot Ion: 75 Resp: 76470

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

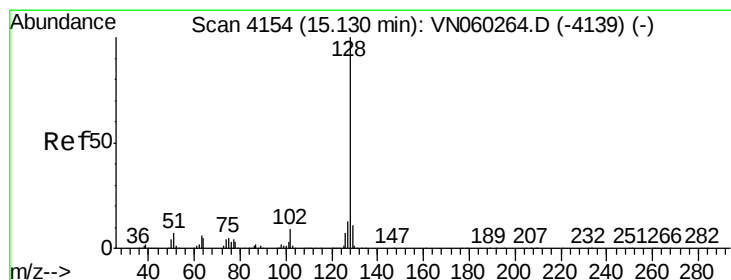
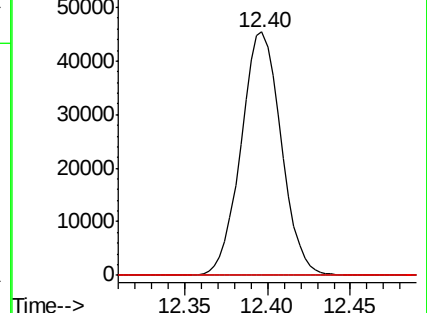
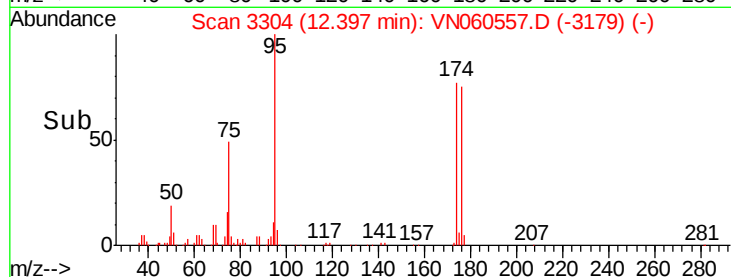
89 0.0 57.1 85.7#



Abundance Ion 74.90 (74.60 to 75.60): VN060557.D (-3179) (-)

Ion 53.00 (52.70 to 53.70): VN060557.D (-3179) (-)

Ion 88.90 (88.60 to 89.60): VN060557.D (-3179) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4153

Delta R.T. -0.00 min

Lab File: VN060557.D

Acq: 17 Mar 2020 15:26

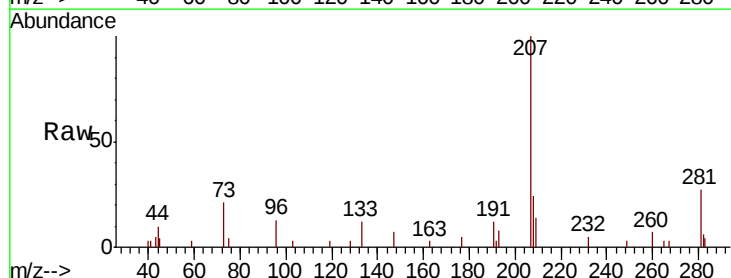
Tgt Ion: 128 Resp: 98

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN060557.D (-4060) (-)

Ion 127.00 (126.70 to 127.70): VN060557.D (-4060) (-)

Ion 129.00 (128.70 to 129.70): VN060557.D (-4060) (-)

