

Data File : VN060457.D
Acq On : 11 Mar 2020 17:50
Operator : JC/MD
Sample : L1873-04
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TP-2

Quant Time: Mar 12 03:41:17 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	184057	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	302206	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	283861	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	129569	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	118468	50.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.34%	
35) Dibromofluoromethane	7.57	113	89848	64.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	128.10%	
50) Toluene-d8	10.08	98	376486	53.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.06%	
62) 4-Bromofluorobenzene	12.40	95	137538	51.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.22%	

Target Compounds

						Qvalue
14) Allyl chloride	4.51	41	939	0.288	ug/l #	24
16) Acetone	3.78	43	2267	2.973	ug/l	98
18) Methyl Acetate	4.29	43	857	0.337	ug/l #	52
20) Methylene Chloride	4.53	84	47060	22.470	ug/l	98
25) 2-Butanone	6.81	43	955	0.775	ug/l #	49
31) Cyclohexane	7.64	56	3981	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	13988	4.857	ug/l #	50
37) Ethyl Acetate	6.81	43	955	0.350	ug/l #	68
38) Carbon Tetrachloride	7.64	117	17876	6.375	ug/l #	15
43) Isopropyl Acetate	8.14	43	52478	10.992	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	923	0.421	ug/l #	44
48) Methyl methacrylate	9.16	41	2566	1.179	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	4085	1.509	ug/l	92
54) cis-1,3-Dichloropropene	9.89	75	23045	6.275	ug/l #	58
57) 1,3-Dichloropropane	10.75	76	3726	1.079	ug/l #	42
59) 2-Hexanone	10.75	43	53910	27.124	ug/l #	52
74) N-amyl acetate	12.02	43	1913	0.456	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	70265	24.717	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	70265	68.231	ug/l #	8
95) Naphthalene	15.13	128	64	Below Cal	#	69

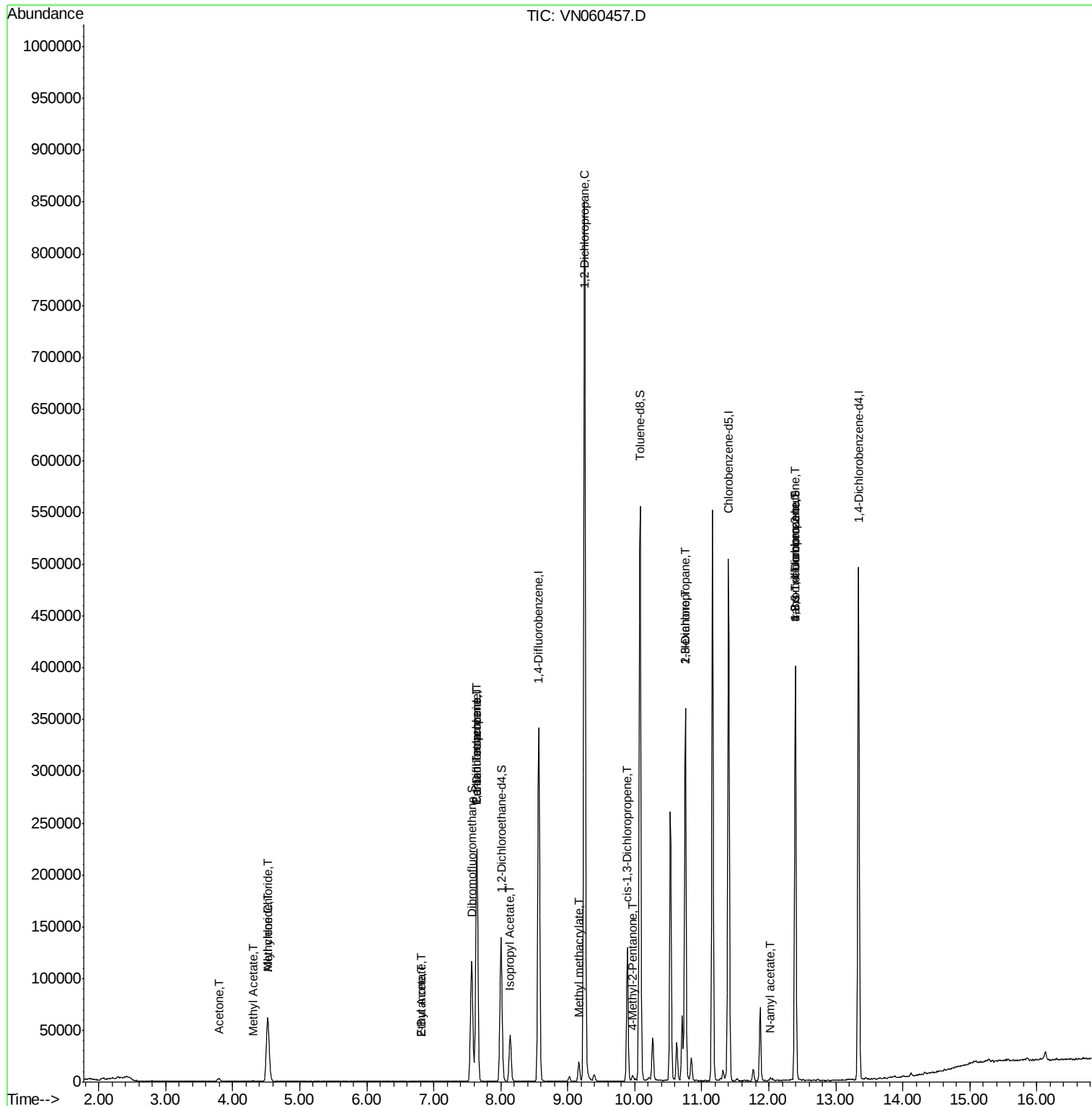
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN060457.D

Acq: 11 Mar 2020 17:50

Instrument :

MSVOA_N

ClientSampled :

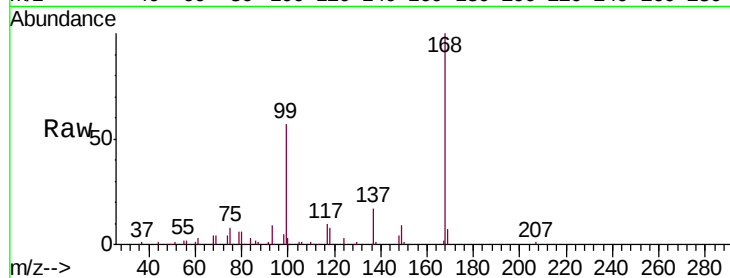
TP-2

Tgt Ion:168 Resp: 184057

Ion Ratio Lower Upper

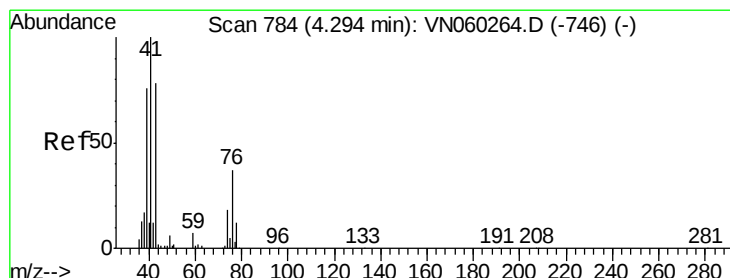
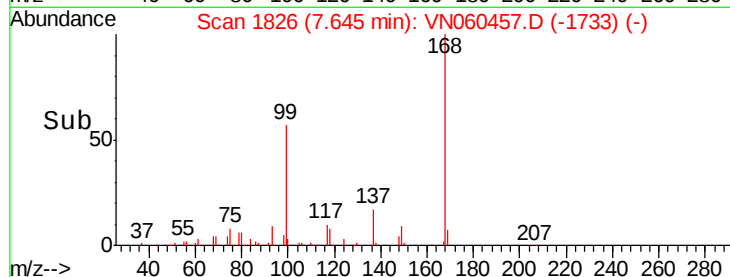
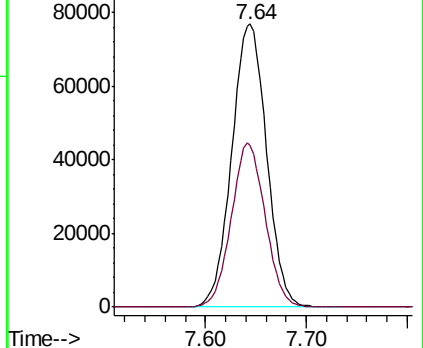
168 100

99 57.2 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#14

Allyl chloride

Concen: 0.288 ug/l

RT: 4.51 min Scan# 852

Delta R.T. 0.22 min

Lab File: VN060457.D

Acq: 11 Mar 2020 17:50

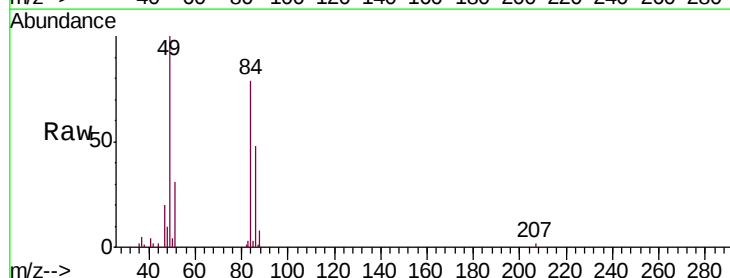
Tgt Ion: 41 Resp: 939

Ion Ratio Lower Upper

41 100

39 0.0 55.4 83.2#

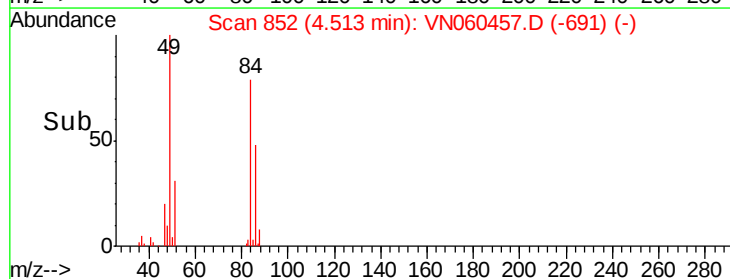
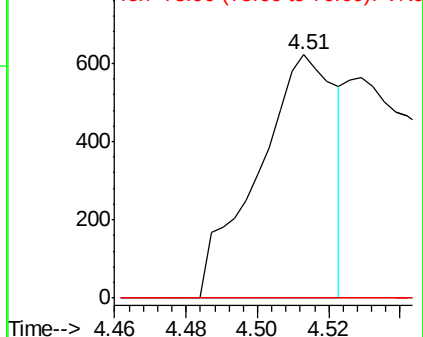
76 0.0 27.0 40.6#

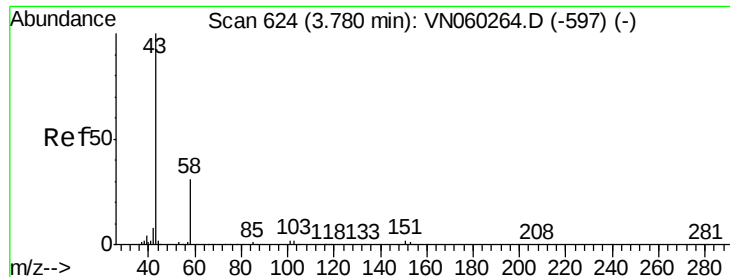


Abundance Ion 41.00 (40.70 to 41.70): VN

Ion 39.00 (38.70 to 39.70): VN

Ion 75.90 (75.60 to 76.60): VN





#16

Acetone

Concen: 2.973 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.00 min

Lab File: VN060457.D

Acq: 11 Mar 2020 17:50

Instrument :

MSVOA_N

ClientSampled :

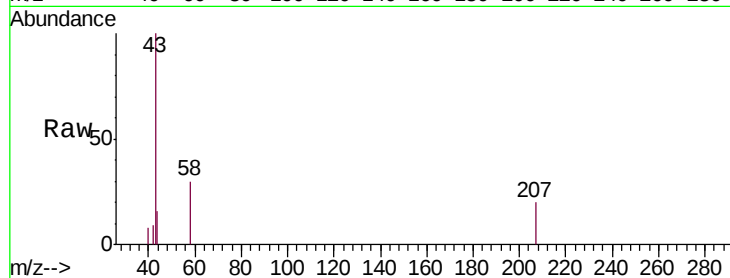
TP-2

Tgt Ion: 43 Resp: 2267

Ion Ratio Lower Upper

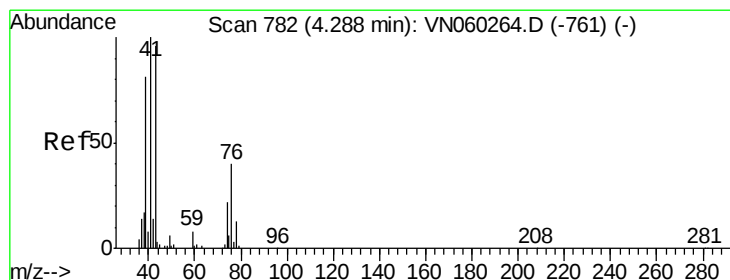
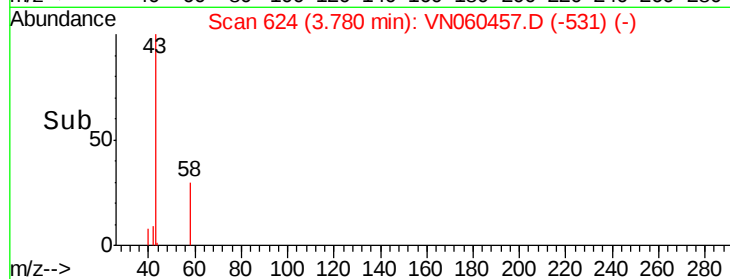
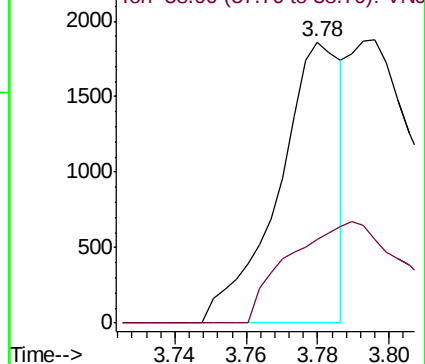
43 100

58 29.7 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.337 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.01 min

Lab File: VN060457.D

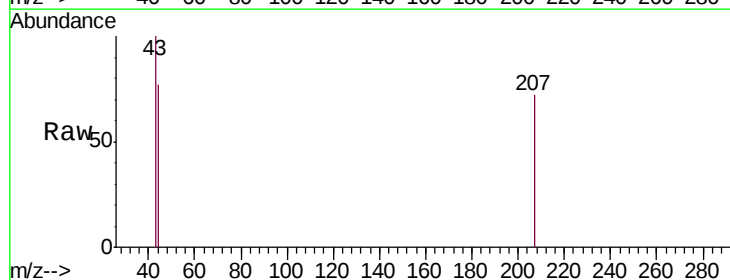
Acq: 11 Mar 2020 17:50

Tgt Ion: 43 Resp: 857

Ion Ratio Lower Upper

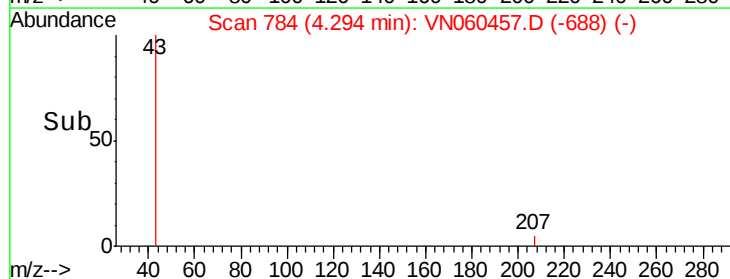
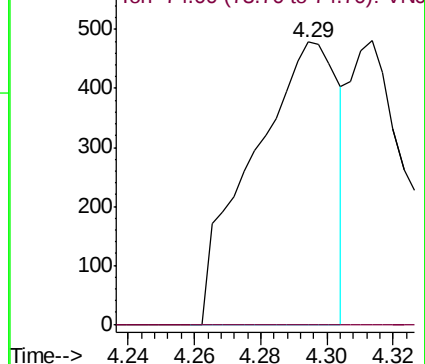
43 100

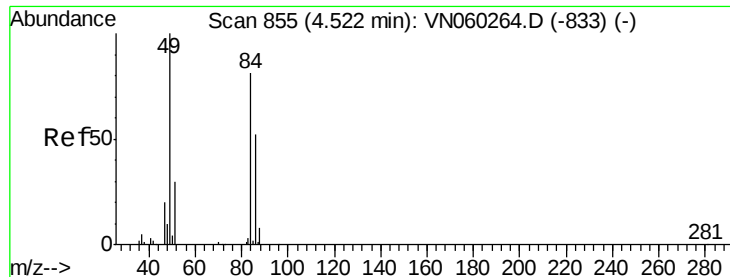
74 0.0 18.8 28.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

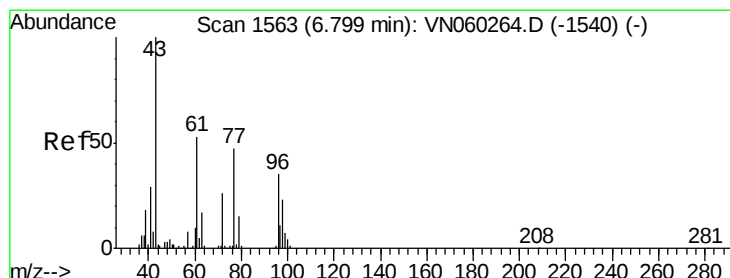
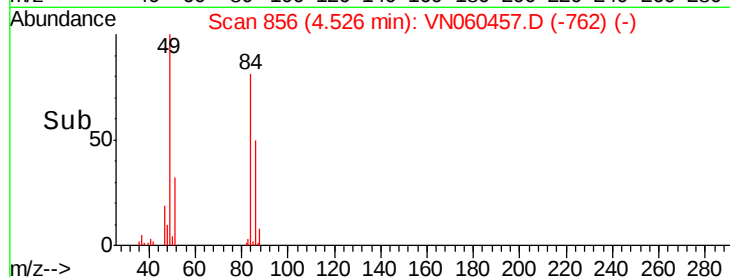
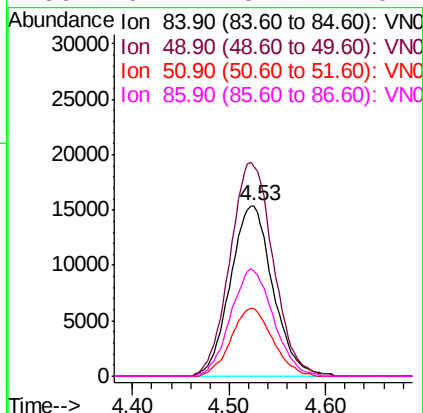
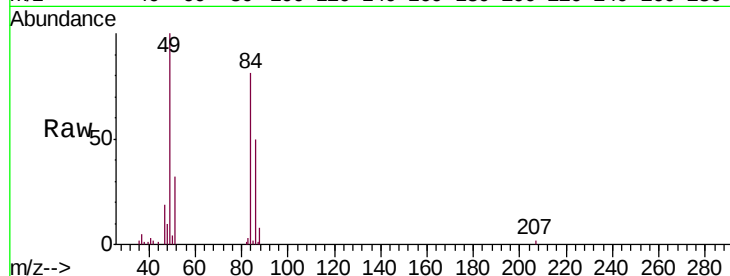




#20
Methylene Chloride
Concen: 22.470 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060457.D
Acq: 11 Mar 2020 17:50

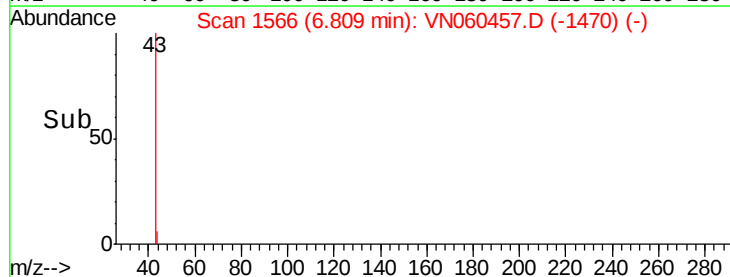
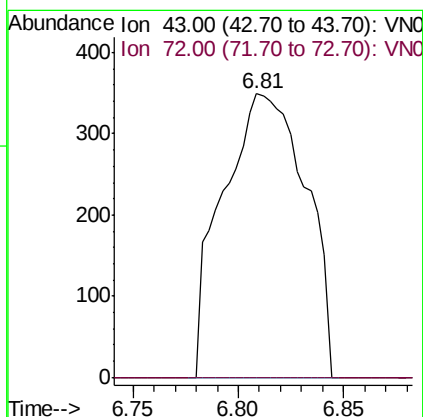
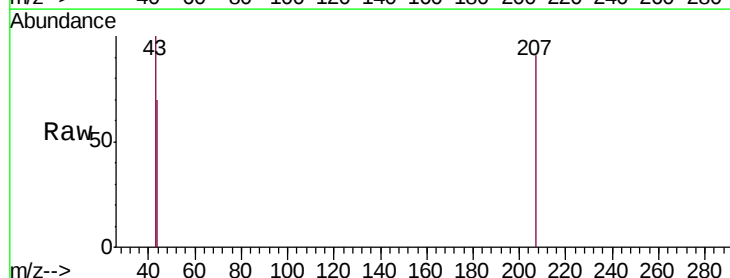
Instrument :
MSVOA_N
ClientSampleId :
TP-2

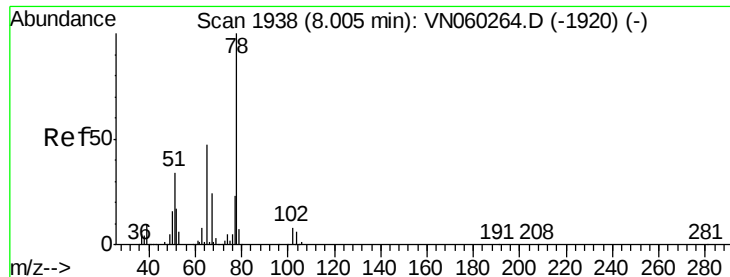
Tgt Ion:	84	Resp:	47060
Ion	Ratio	Lower	Upper
84	100		
49	123.3	99.3	148.9
51	39.4	30.1	45.1
86	61.7	51.1	76.7



#25
2-Butanone
Concen: 0.775 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VN060457.D
Acq: 11 Mar 2020 17:50

Tgt Ion:	43	Resp:	955
Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.9	31.3#

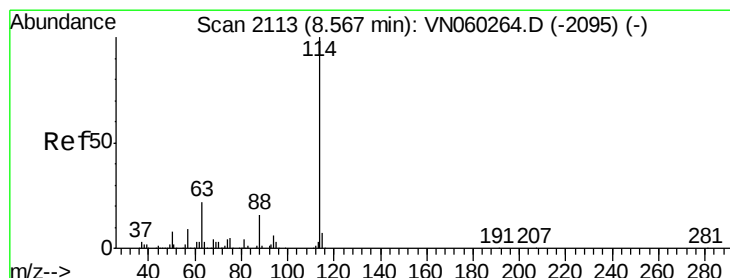
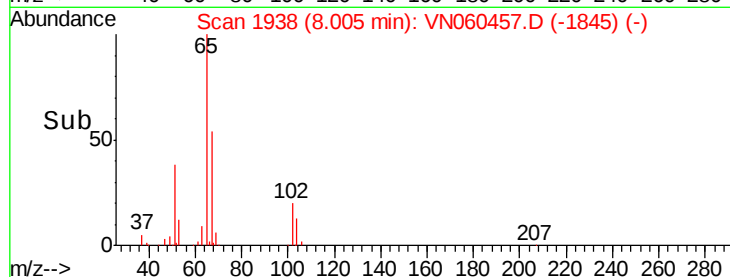
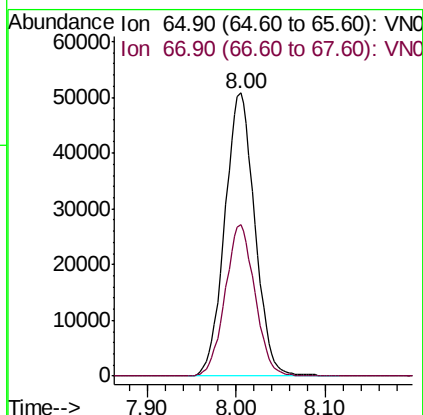
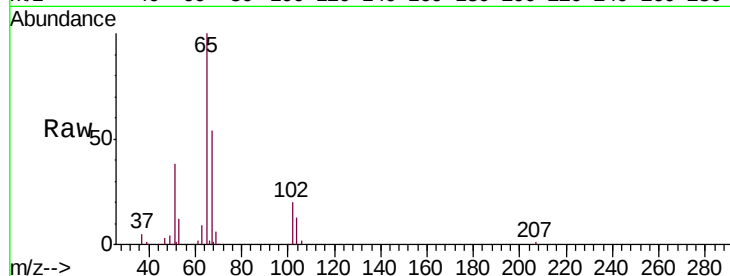




#33
 1,2-Dichloroethane-d4
 Concen: 50.167 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060457.D
 Acq: 11 Mar 2020 17:50

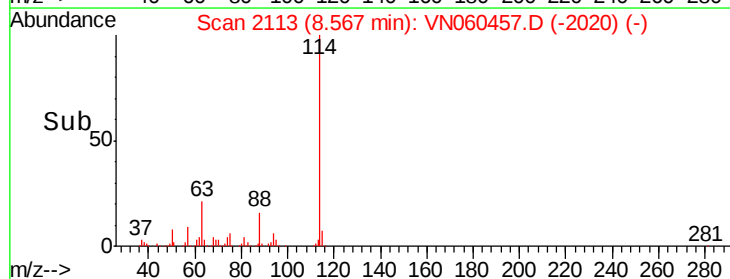
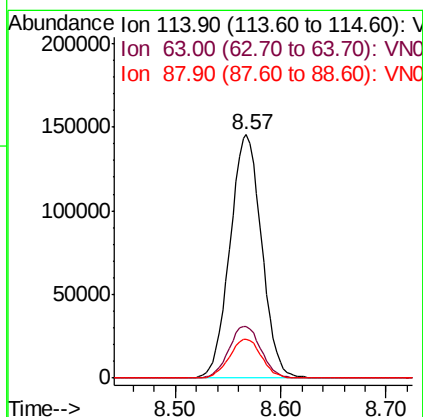
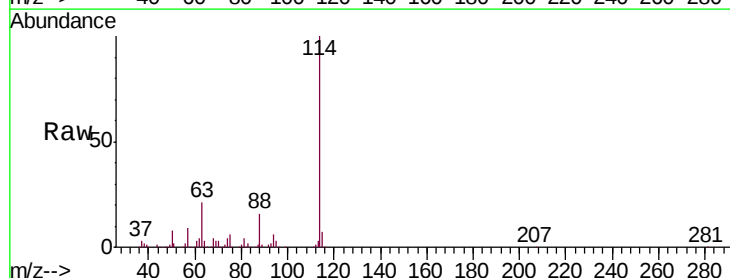
Instrument :
 MSVOA_N
 ClientSampled :
 TP-2

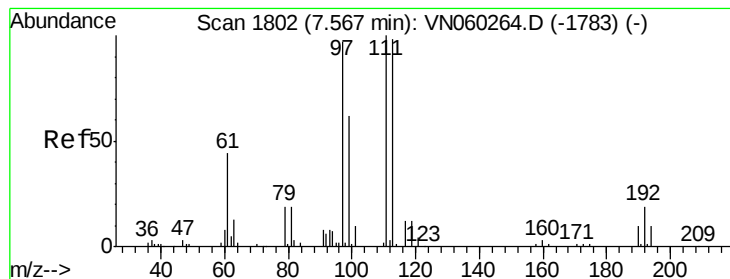
Tgt Ion: 65 Resp: 118468
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060457.D
 Acq: 11 Mar 2020 17:50

Tgt Ion: 114 Resp: 302206
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 43.2
 88 16.1 0.0 31.6





#35

Dibromofluoromethane

Concen: 64.052 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN060457.D

Acq: 11 Mar 2020 17:50

Instrument :

MSVOA_N

ClientSampleId :

TP-2

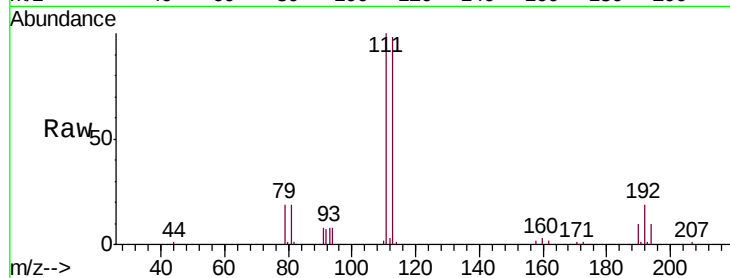
Tgt Ion:113 Resp: 89848

Ion Ratio Lower Upper

113 100

111 102.7 82.4 123.6

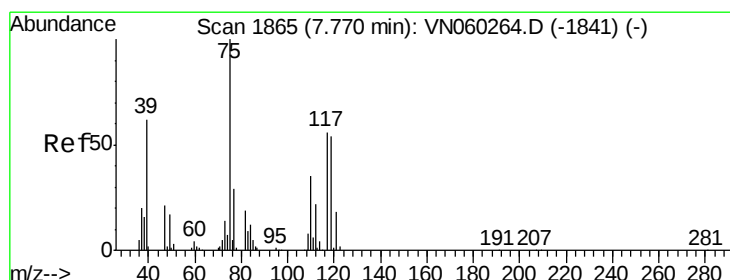
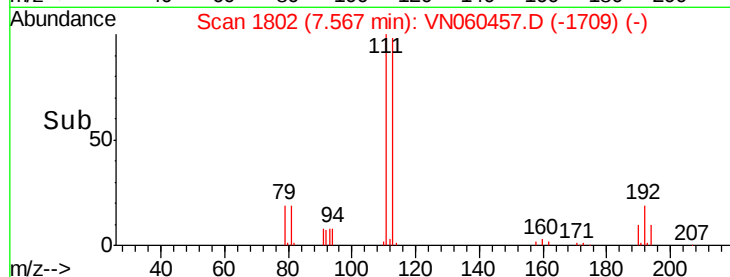
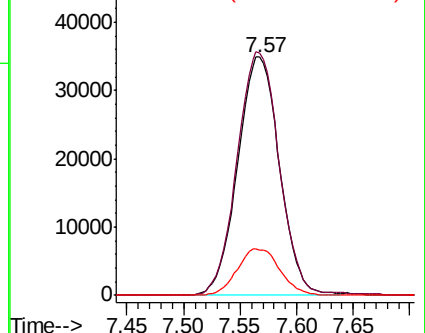
192 19.9 16.2 24.2



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: 4.857 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.13 min

Lab File: VN060457.D

Acq: 11 Mar 2020 17:50

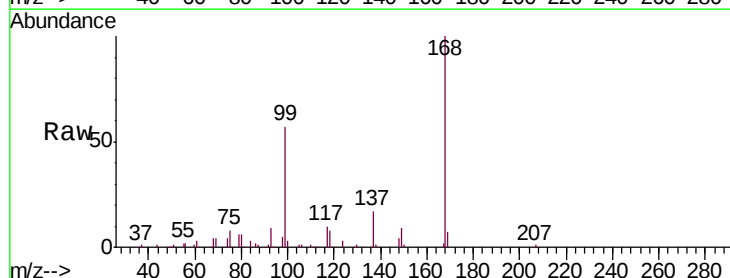
Tgt Ion: 75 Resp: 13988

Ion Ratio Lower Upper

75 100

110 8.5 17.3 52.0#

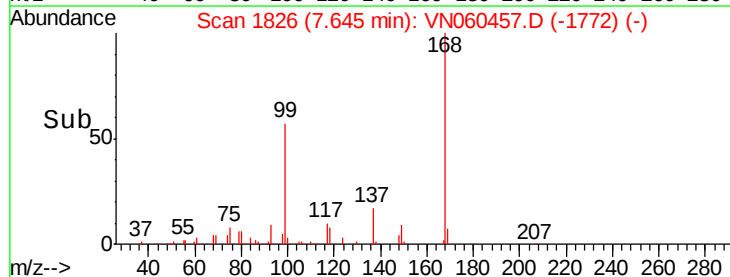
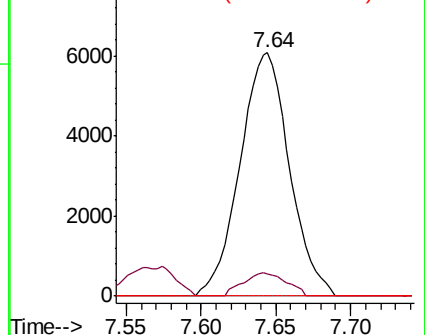
77 0.0 24.2 36.2#

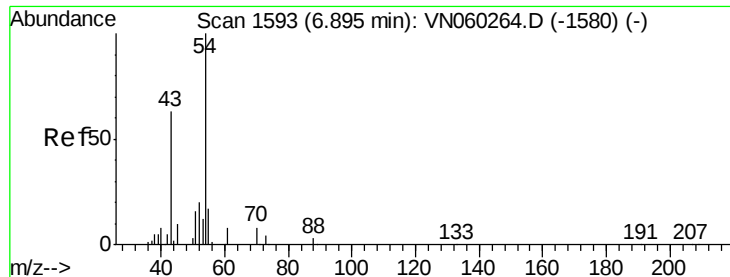


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

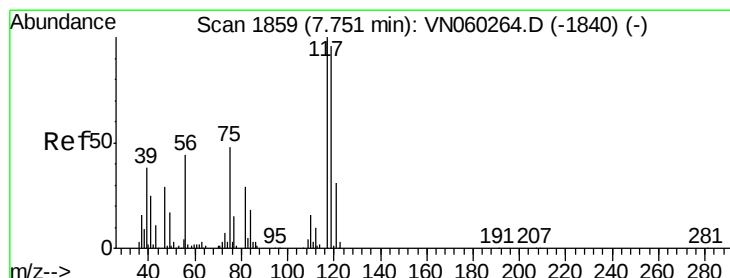
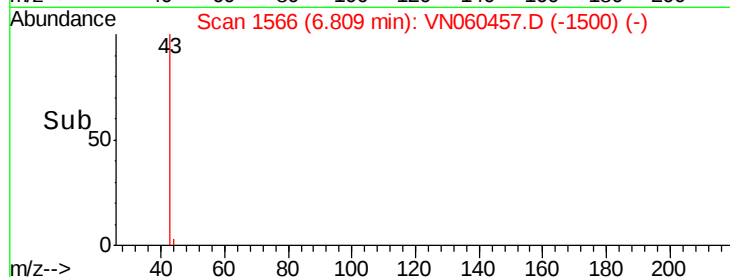
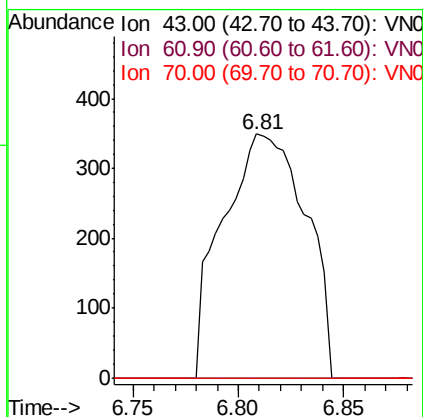
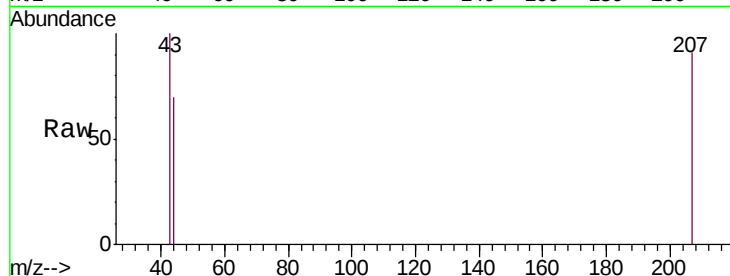




#37
 Ethyl Acetate
 Concen: 0.350 ug/l
 RT: 6.81 min Scan# 1566
 Delta R.T. -0.09 min
 Lab File: VN060457.D
 Acq: 11 Mar 2020 17:50

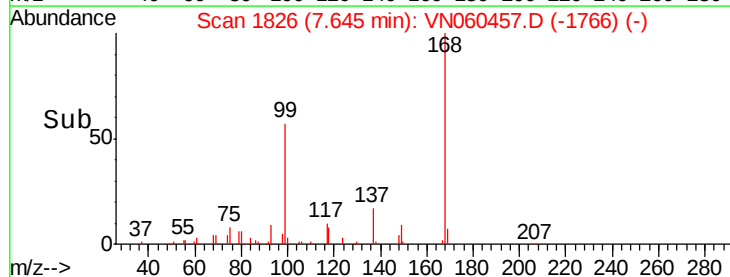
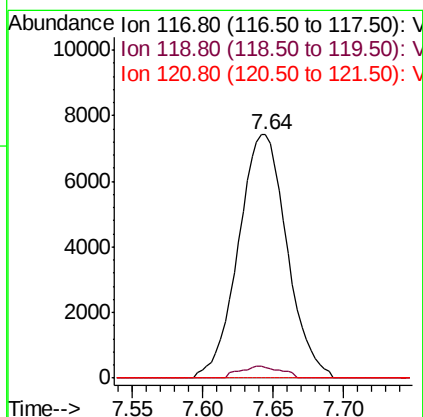
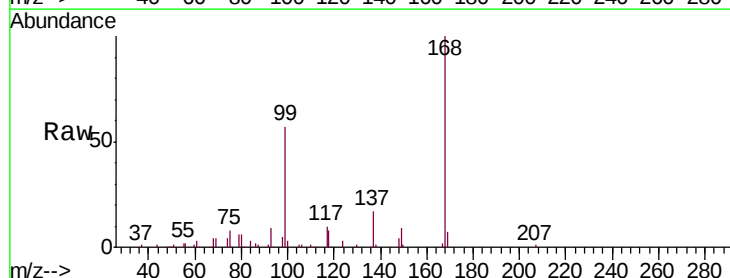
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2

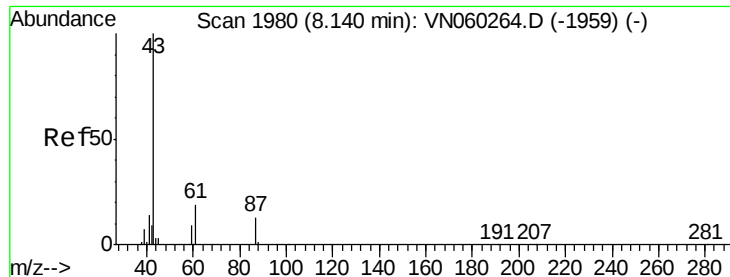
Tgt Ion: 43 Resp: 955
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.1 16.7#
 70 0.0 8.4 12.6#



#38
 Carbon Tetrachloride
 Concen: 6.375 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN060457.D
 Acq: 11 Mar 2020 17:50

Tgt Ion: 117 Resp: 17876
 Ion Ratio Lower Upper
 117 100
 119 4.3 76.7 115.1#
 121 0.0 24.5 36.7#





#43

Isopropyl Acetate

Concen: 10.992 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060457.D

Acq: 11 Mar 2020 17:50

Instrument :

MSVOA_N

ClientSampleId :

TP-2

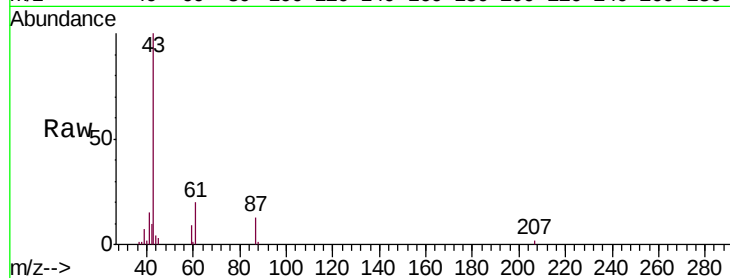
Tgt Ion: 43 Resp: 52478

Ion Ratio Lower Upper

43 100

61 19.7 20.9 31.3#

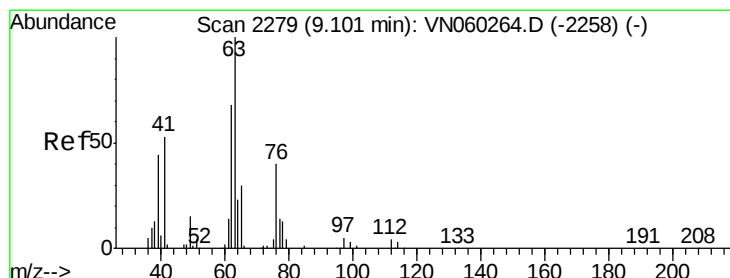
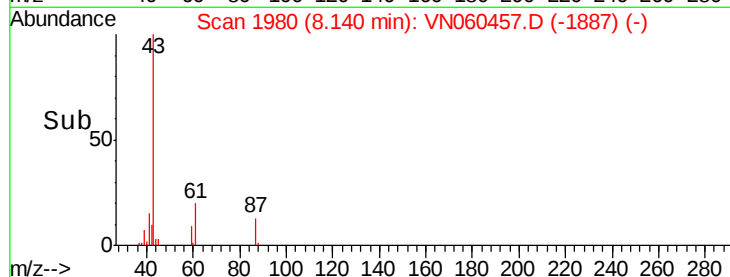
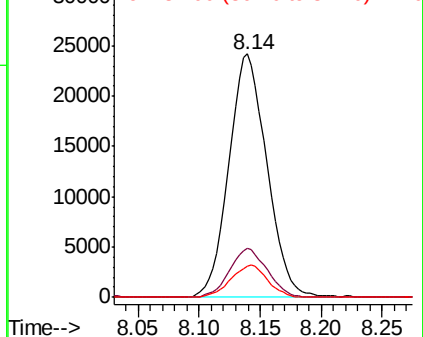
87 12.7 10.6 16.0



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-1959) (-)

Ion 61.00 (60.70 to 61.70): VN060264.D (-1959) (-)

Ion 87.00 (86.70 to 87.70): VN060264.D (-1959) (-)



#45

1,2-Dichloropropane

Concen: 0.421 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060457.D

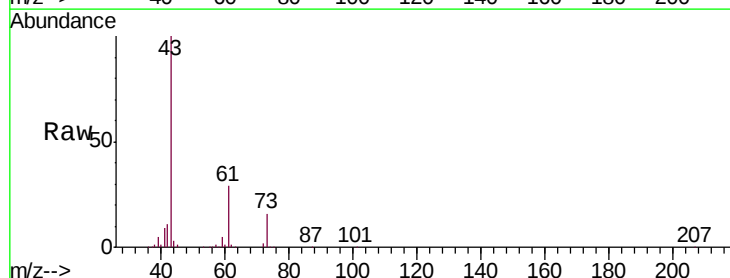
Acq: 11 Mar 2020 17:50

Tgt Ion: 63 Resp: 923

Ion Ratio Lower Upper

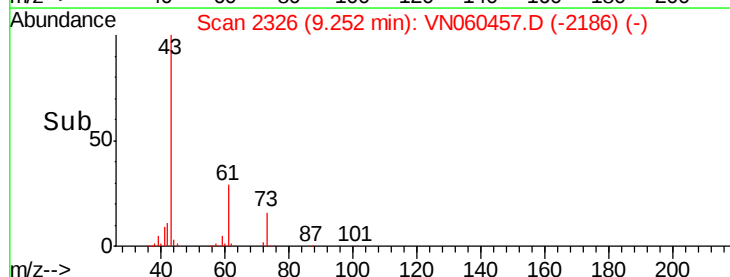
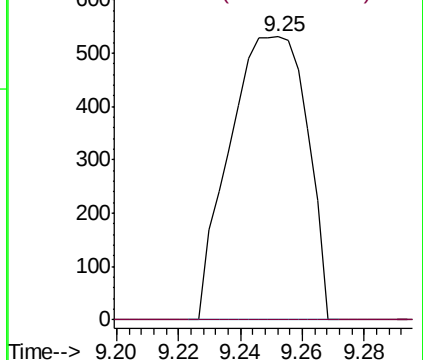
63 100

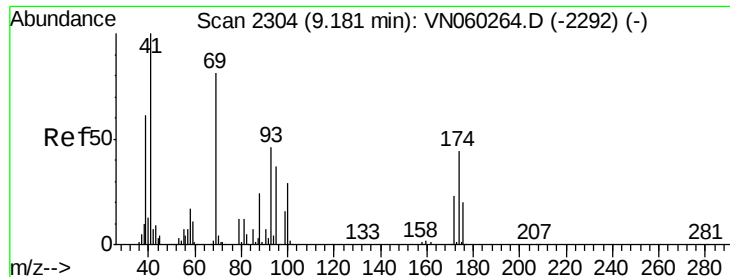
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN060264.D (-2258) (-)

Ion 64.90 (64.60 to 65.60): VN060264.D (-2258) (-)

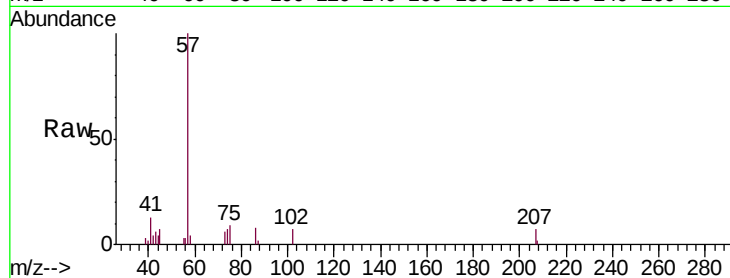




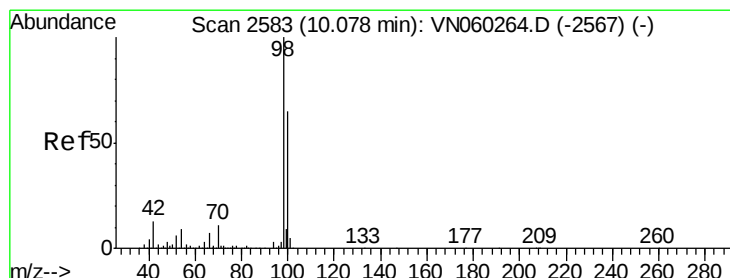
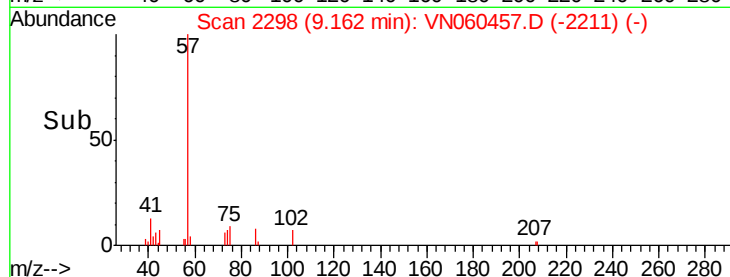
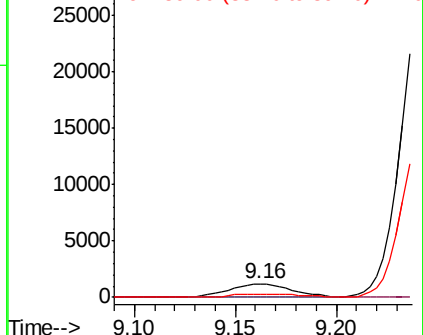
#48
Methyl methacrylate
Concen: 1.179 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060457.D
Acq: 11 Mar 2020 17:50

Instrument :
MSVOA_N
ClientSampleId :
TP-2

Tgt Ion: 41 Resp: 2566
Ion Ratio Lower Upper
41 100
69 0.0 66.7 100.1#
39 0.0 50.1 75.1#

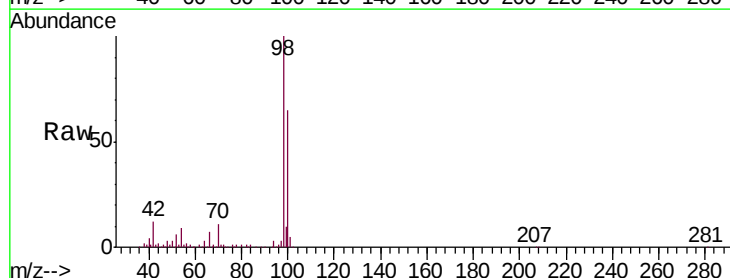


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

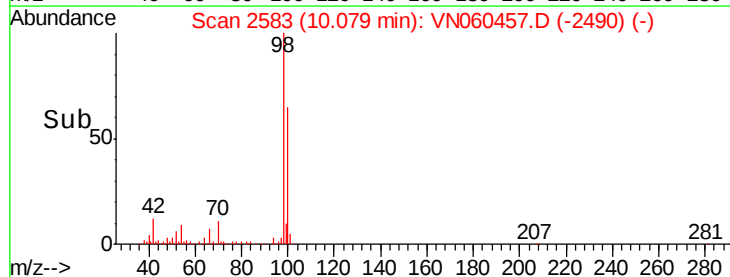
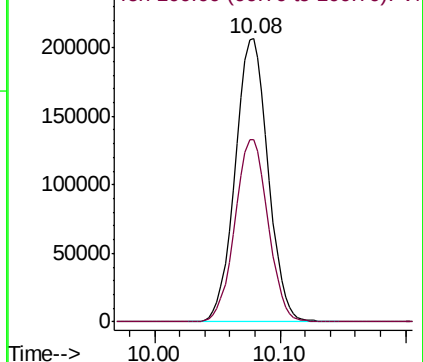


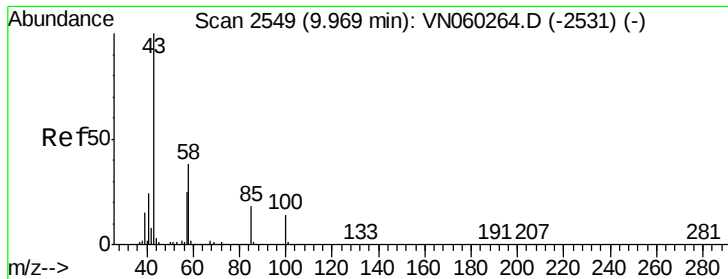
#50
Toluene-d8
Concen: 53.030 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060457.D
Acq: 11 Mar 2020 17:50

Tgt Ion: 98 Resp: 376486
Ion Ratio Lower Upper
98 100
100 64.9 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.509 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060457.D

Acq: 11 Mar 2020 17:50

Instrument :

MSVOA_N

ClientSampled :

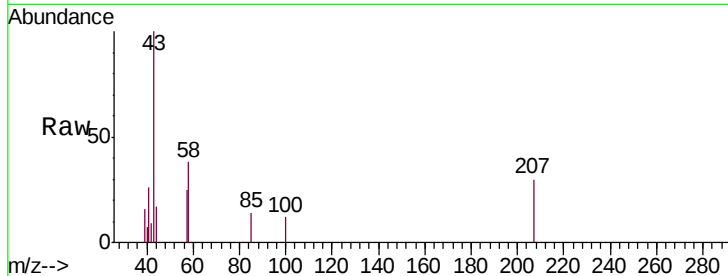
TP-2

Tgt Ion: 43 Resp: 4085

Ion Ratio Lower Upper

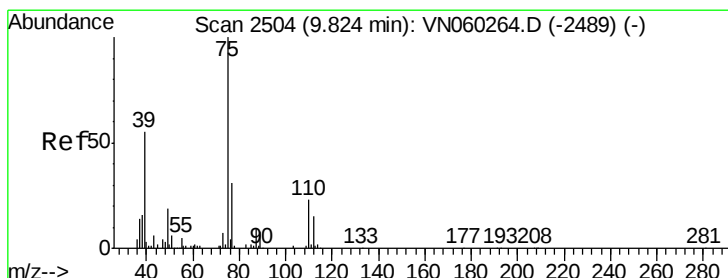
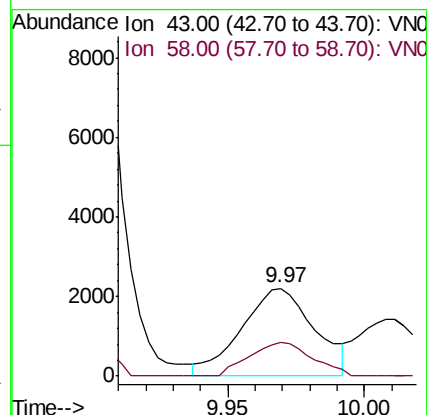
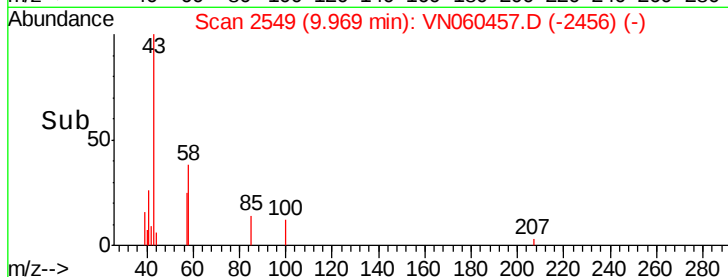
43 100

58 33.7 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VN060457.D (-2456) (-)

Ion 58.00 (57.70 to 58.70): VN060457.D (-2456) (-)



#54

cis-1,3-Dichloropropene

Concen: 6.275 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060457.D

Acq: 11 Mar 2020 17:50

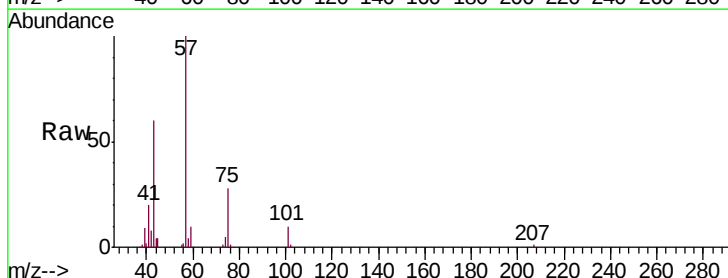
Tgt Ion: 75 Resp: 23045

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

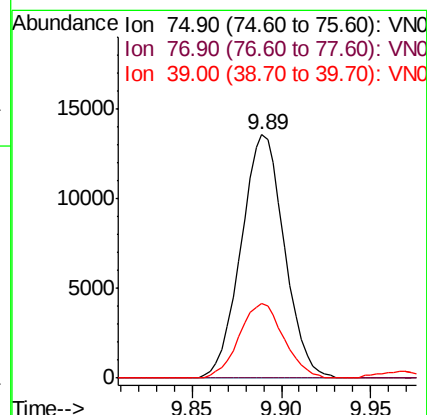
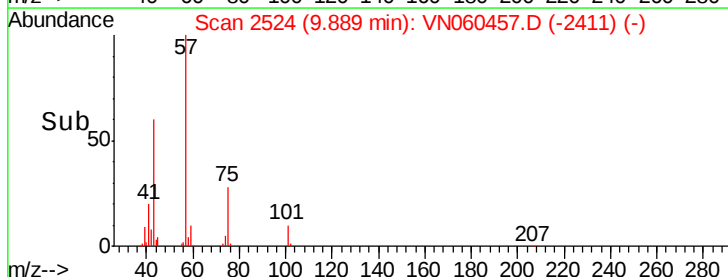
39 30.5 43.8 65.8#

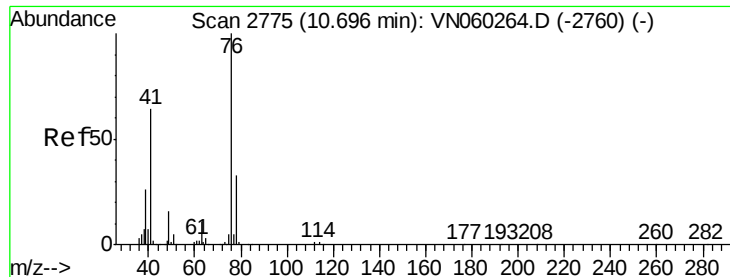


Abundance Ion 74.90 (74.60 to 75.60): VN060457.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN060457.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060457.D (-2411) (-)





#57

1,3-Dichloropropane

Concen: 1.079 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060457.D

Acq: 11 Mar 2020 17:50

Instrument :

MSVOA_N

ClientSampled :

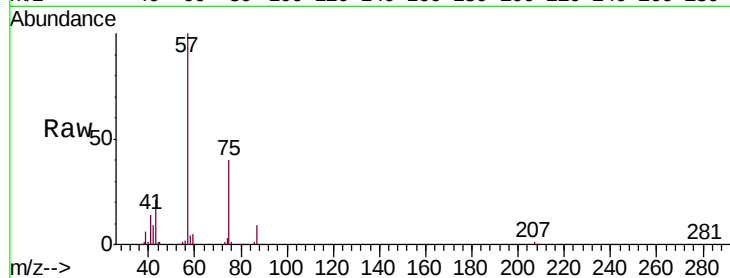
TP-2

Tgt Ion: 76 Resp: 3726

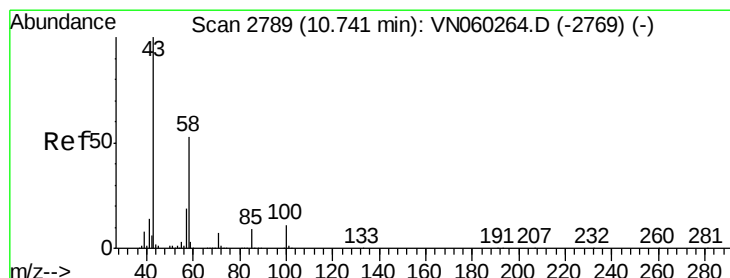
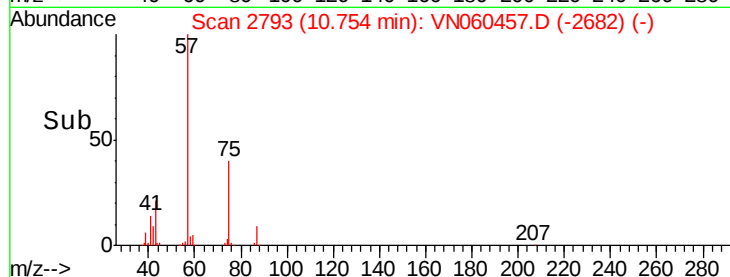
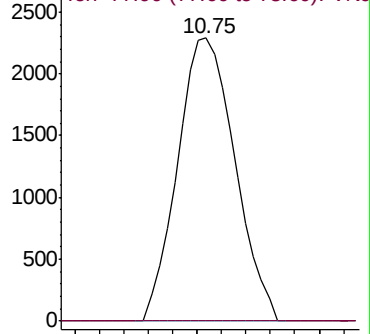
Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN060457.D (-2682) (-)



#59

2-Hexanone

Concen: 27.124 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060457.D

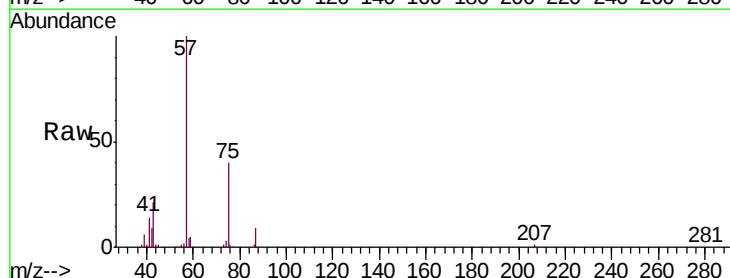
Acq: 11 Mar 2020 17:50

Tgt Ion: 43 Resp: 53910

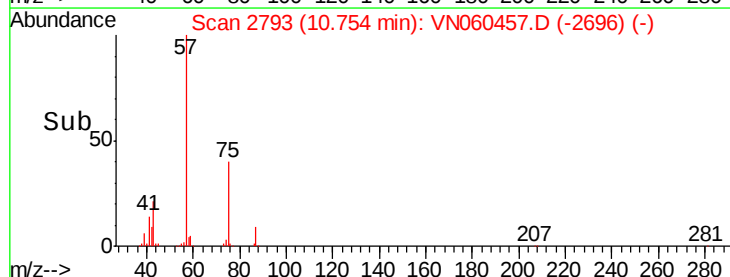
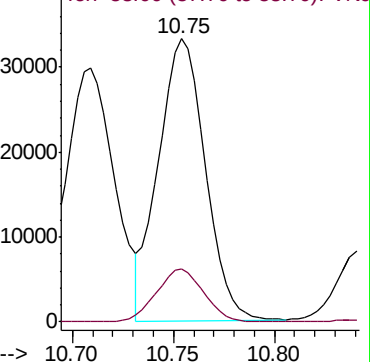
Ion Ratio Lower Upper

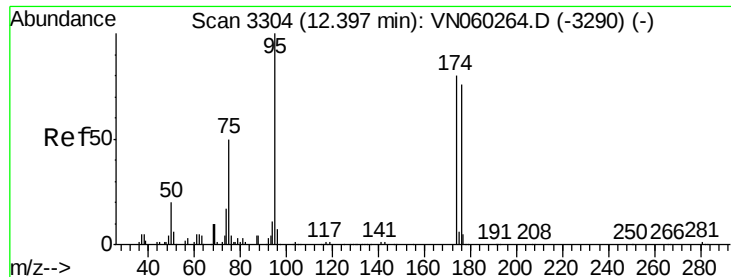
43 100

58 18.7 26.5 79.5#



Abundance Ion 43.00 (42.70 to 43.70): VN060457.D (-2696) (-)





#62

4-Bromofluorobenzene

Concen: 51.106 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060457.D

Acq: 11 Mar 2020 17:50

Instrument :

MSVOA_N

ClientSampled :

TP-2

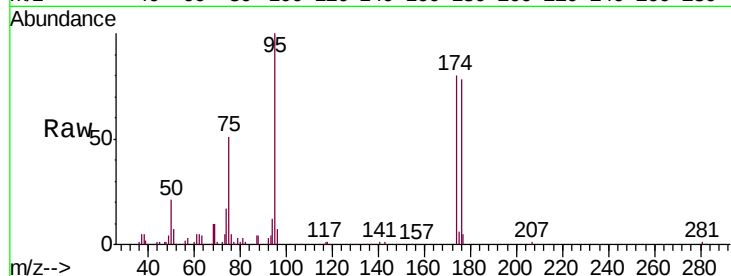
Tgt Ion: 95 Resp: 137538

Ion Ratio Lower Upper

95 100

174 79.4 0.0 159.2

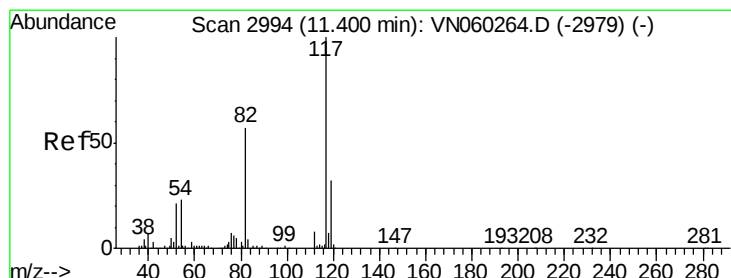
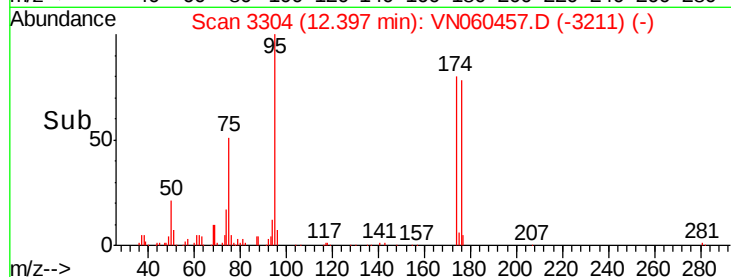
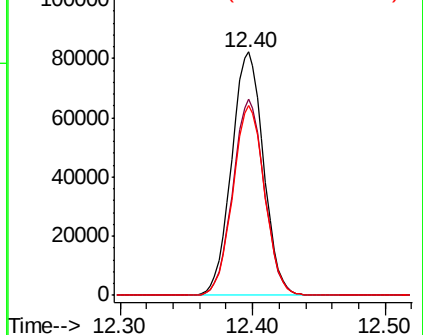
176 77.5 0.0 153.8



Abundance Ion 94.90 (94.60 to 95.60): VN060264.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060264.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060264.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060457.D

Acq: 11 Mar 2020 17:50

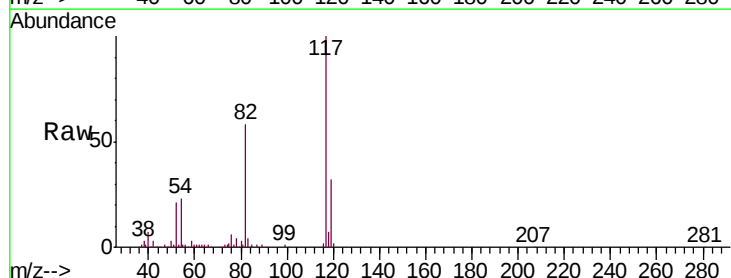
Tgt Ion: 117 Resp: 283861

Ion Ratio Lower Upper

117 100

82 58.0 45.8 68.6

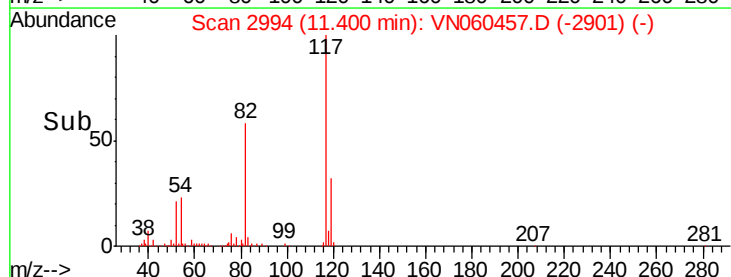
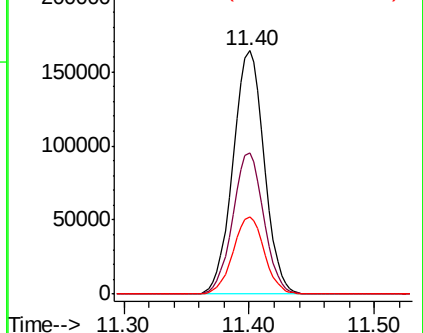
119 31.7 25.8 38.8

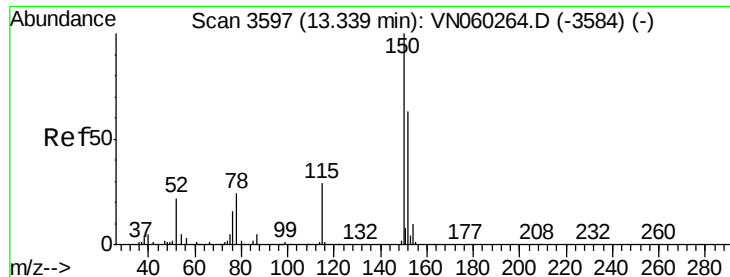


Abundance Ion 116.90 (116.60 to 117.60): VN060264.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060264.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060264.D (-2979) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060457.D

Acq: 11 Mar 2020 17:50

Instrument :

MSVOA_N

ClientSampleId :

TP-2

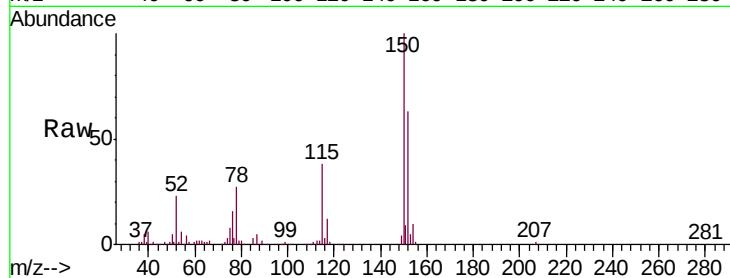
Tgt Ion:152 Resp: 129569

Ion Ratio Lower Upper

152 100

115 59.5 30.0 90.0

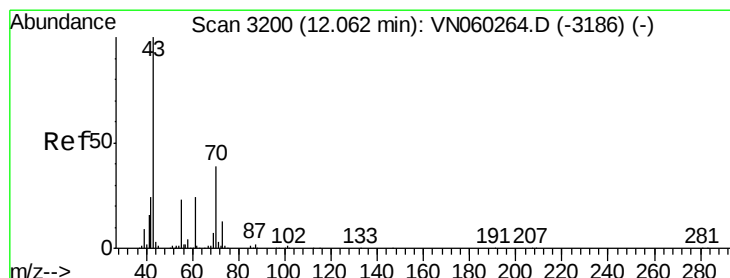
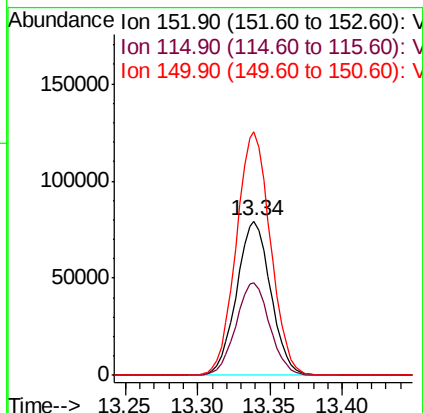
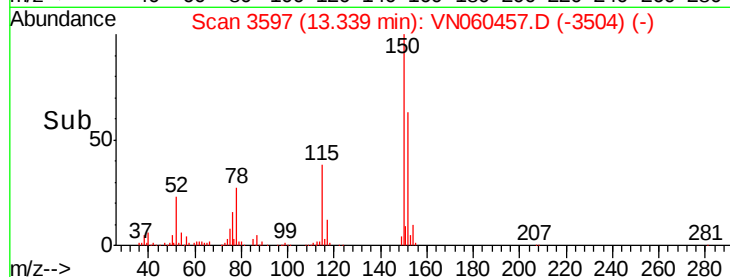
150 158.8 0.0 349.6



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: 0.456 ug/l

RT: 12.02 min Scan# 3186

Delta R.T. -0.04 min

Lab File: VN060457.D

Acq: 11 Mar 2020 17:50

Tgt Ion: 43 Resp: 1913

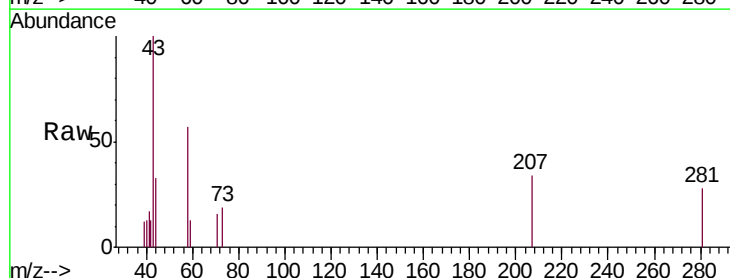
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

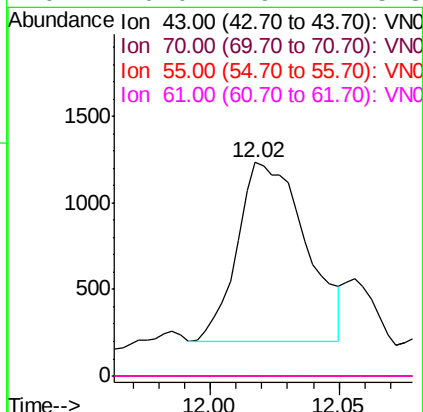
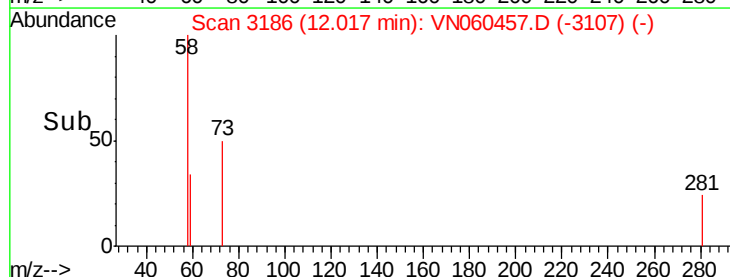


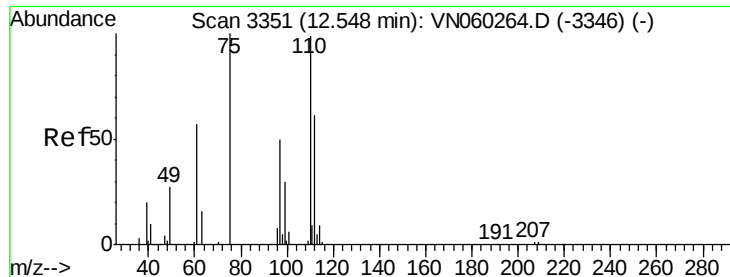
Abundance Ion 43.00 (42.70 to 43.70): VN0

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





#76

1,2,3-Trichloropropane

Concen: 24.717 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060457.D

Acq: 11 Mar 2020 17:50

Instrument :

MSVOA_N

ClientSampleId :

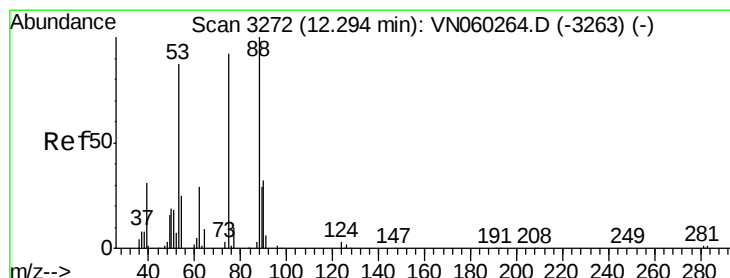
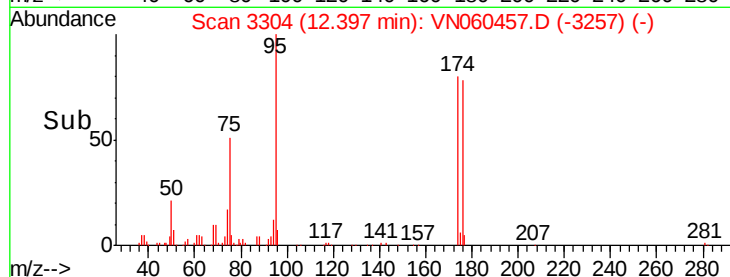
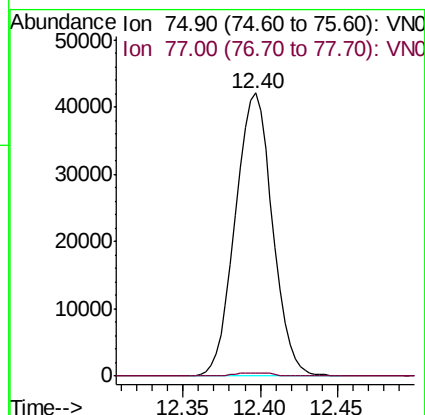
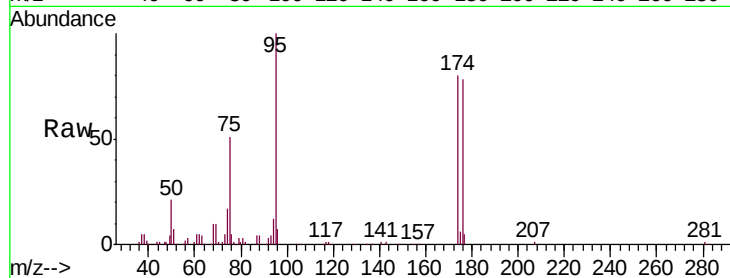
TP-2

Tgt Ion: 75 Resp: 70265

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 68.231 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060457.D

Acq: 11 Mar 2020 17:50

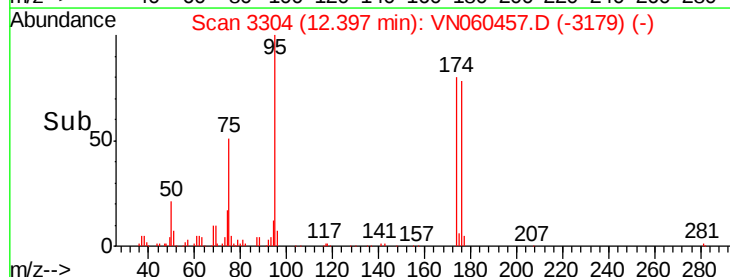
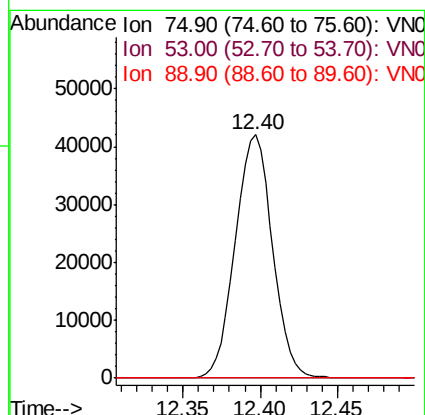
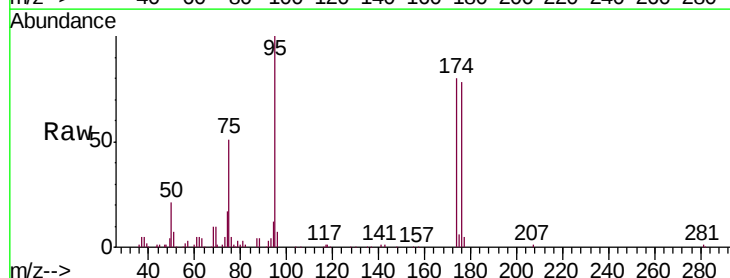
Tgt Ion: 75 Resp: 70265

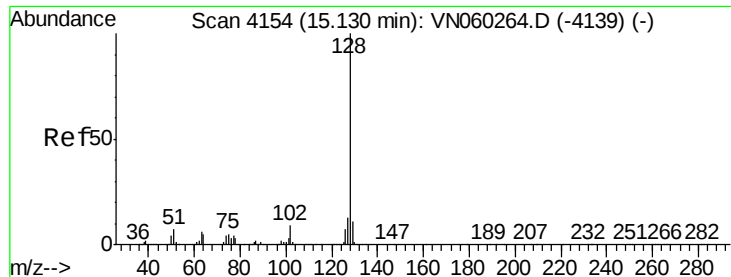
Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 57.1 85.7#

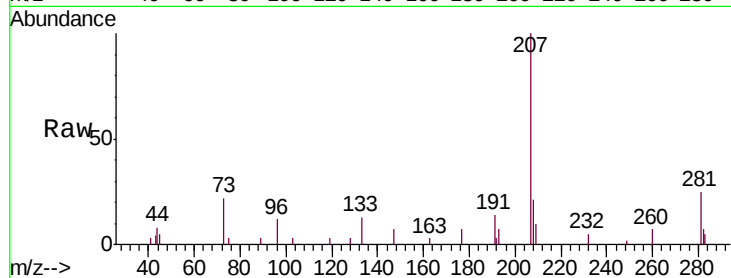




#95
Naphthalene
Concen: Below Cal
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN060457.D
Acq: 11 Mar 2020 17:50

Instrument :
MSVOA_N
ClientSampleId :
TP-2

Tgt 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): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

