

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030620\
 Data File : VN060385.D
 Acq On : 6 Mar 2020 16:59
 Operator : JC/MD
 Sample : L1753-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 07 00:57:31 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

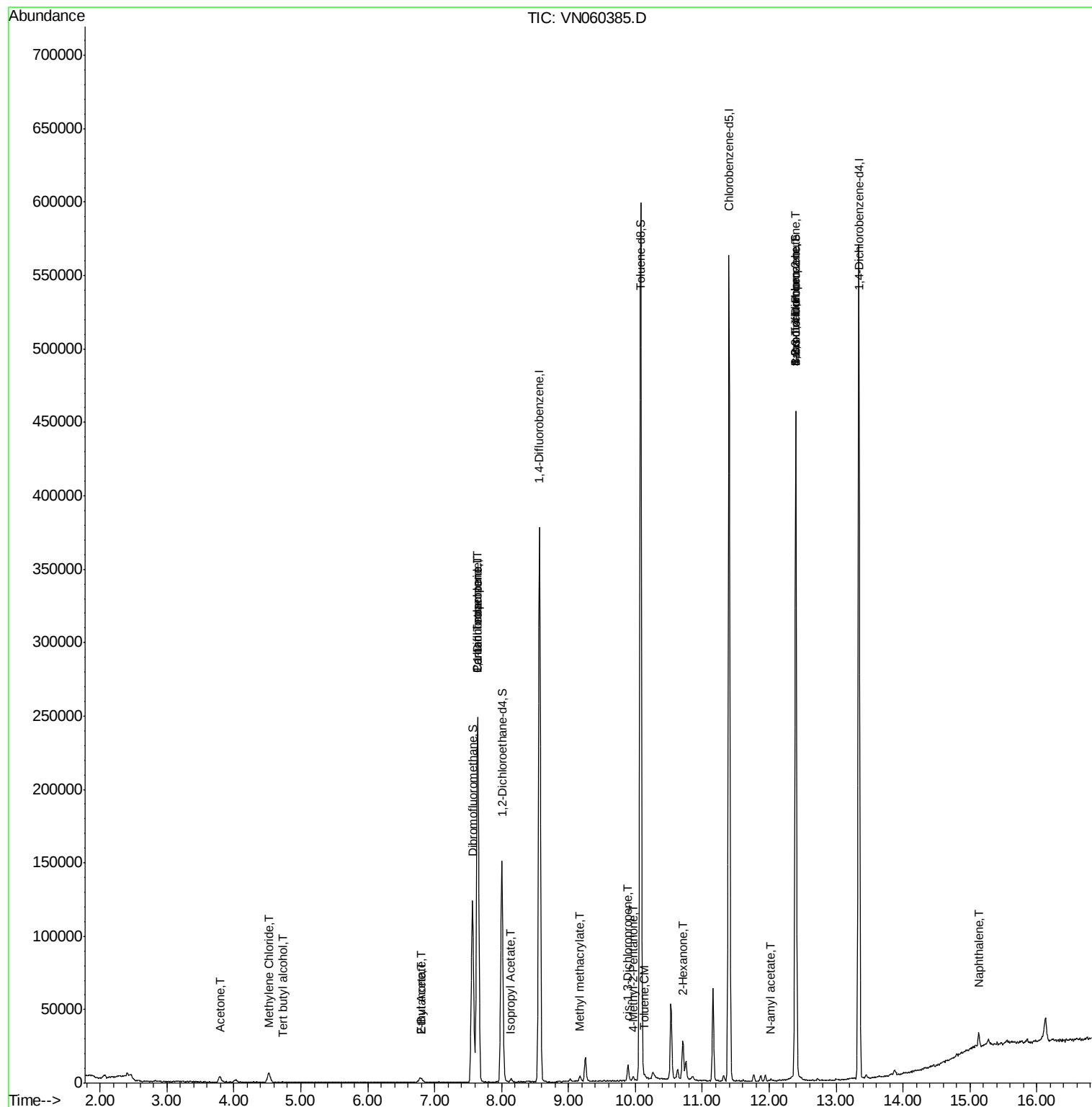
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	203053	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	332674	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	314735	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	147728	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	130275	50.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.02%	
35) Dibromofluoromethane	7.57	113	94493	61.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	122.38%	
50) Toluene-d8	10.08	98	410737	52.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.12%	
62) 4-Bromofluorobenzene	12.40	95	155066	52.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.68%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.73	59	98	0.253	ug/l #	73
16) Acetone	3.79	43	7445	8.849	ug/l	99
20) Methylene Chloride	4.52	84	4984	2.157	ug/l #	96
25) 2-Butanone	6.81	43	2816	2.072	ug/l #	90
31) Cyclohexane	7.64	56	4538	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	15674	4.944	ug/l #	49
37) Ethyl Acetate	6.81	43	2816	0.938	ug/l #	68
38) Carbon Tetrachloride	7.64	117	19381	6.278	ug/l #	16
43) Isopropyl Acetate	8.14	43	2721	0.518	ug/l #	80
48) Methyl methacrylate	9.16	41	937	0.391	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	1927	0.647	ug/l	96
52) Toluene	10.15	92	1227	0.212	ug/l	95
54) cis-1,3-Dichloropropene	9.89	75	1856	0.459	ug/l #	59
59) 2-Hexanone	10.71	43	22518	10.292	ug/l #	25
71) Bromoform	12.39	173	726	0.429	ug/l #	1
74) N-amyl acetate	12.02	43	1198	0.250	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	80443	24.819	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	80443	68.513	ug/l #	8
87) 1,3-Dichlorobenzene	13.36	146	69	Below Cal	#	1
88) 1,4-Dichlorobenzene	13.36	146	69	Below Cal	#	1
95) Naphthalene	15.13	128	7842	0.623	ug/l	97

(#) = 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: VN060385.D

Acq: 6 Mar 2020 16:59

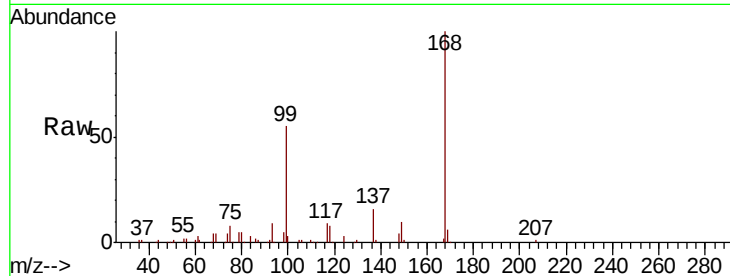
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 203053

Ion Ratio Lower Upper

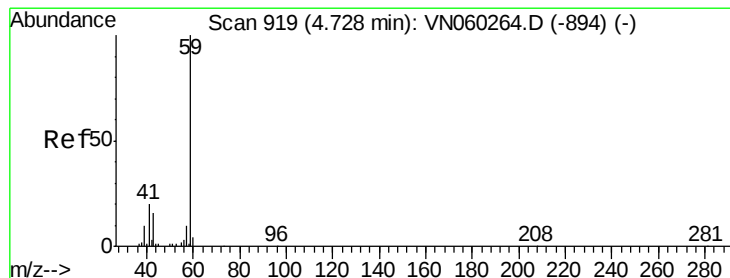
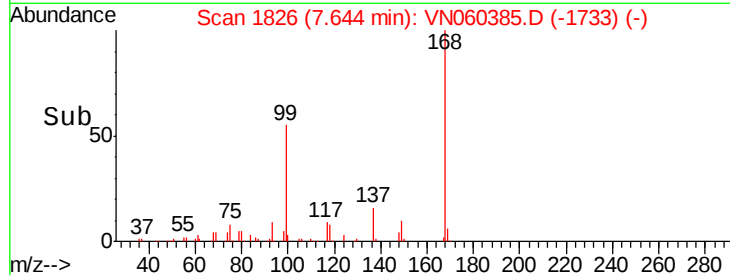
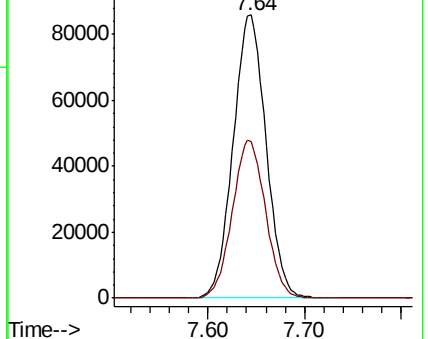
168 100

99 55.2 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 0.253 ug/l

RT: 4.73 min Scan# 920

Delta R.T. 0.00 min

Lab File: VN060385.D

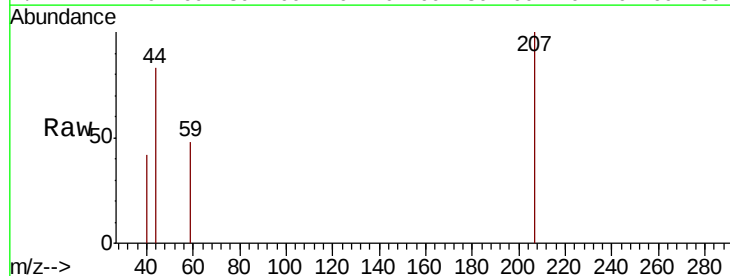
Acq: 6 Mar 2020 16:59

Tgt Ion: 59 Resp: 98

Ion Ratio Lower Upper

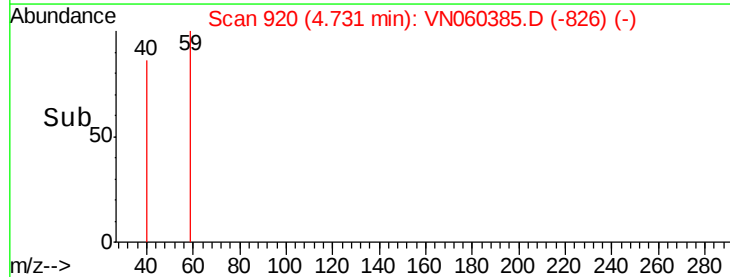
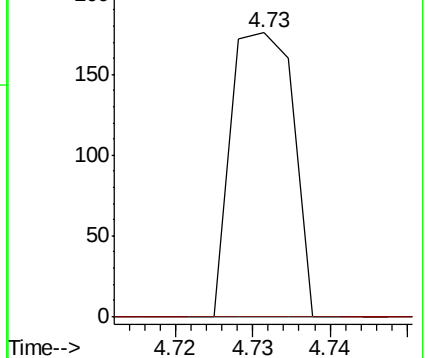
59 100

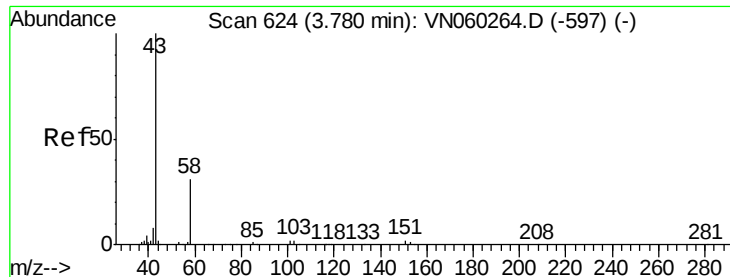
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 8.849 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060385.D

Acq: 6 Mar 2020 16:59

Instrument :

MSVOA_N

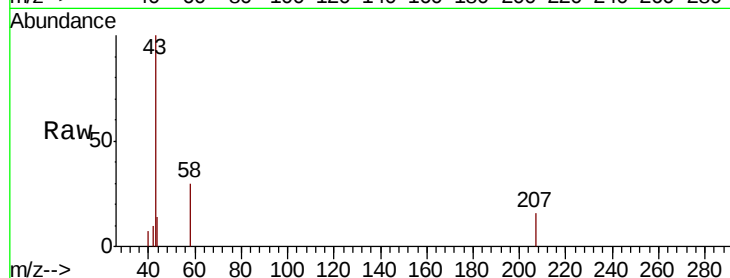
ClientSampleId :

Tot Ion: 43 Resp: 7445

Ion Ratio Lower Upper

43 100

58 30.4 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-597) (-)

Ion 58.00 (57.70 to 58.70): VN060264.D (-597) (-)

3.79

2500

2000

1500

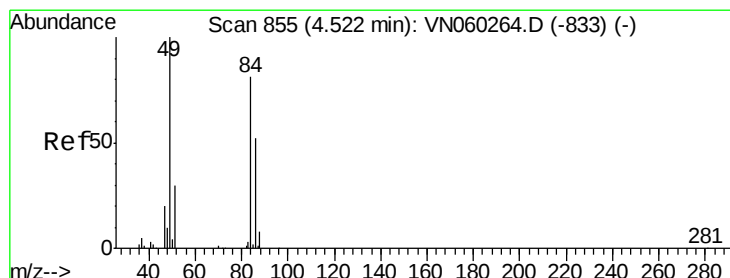
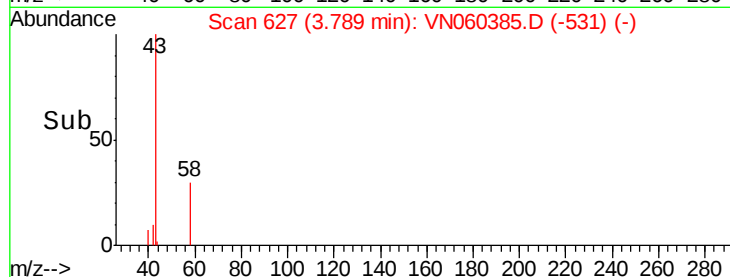
1000

500

0

Time-->

3.70 3.75 3.80 3.85 3.90



#20

Methylene Chloride

Concen: 2.157 ug/l

RT: 4.52 min Scan# 855

Delta R.T. 0.00 min

Lab File: VN060385.D

Acq: 6 Mar 2020 16:59

Tgt Ion: 84 Resp: 4984

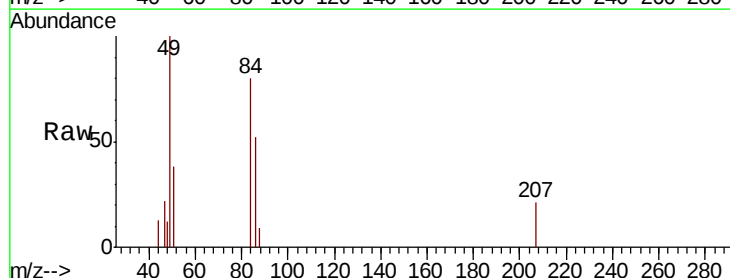
Ion Ratio Lower Upper

84 100

49 125.3 99.3 148.9

51 47.2 30.1 45.1#

86 64.8 51.1 76.7



Abundance Ion 83.90 (83.60 to 84.60): VN060264.D (-833) (-)

Ion 48.90 (48.60 to 49.60): VN060264.D (-833) (-)

Ion 50.90 (50.60 to 51.60): VN060264.D (-833) (-)

Ion 85.90 (85.60 to 86.60): VN060264.D (-833) (-)

4.52

3000

2500

2000

1500

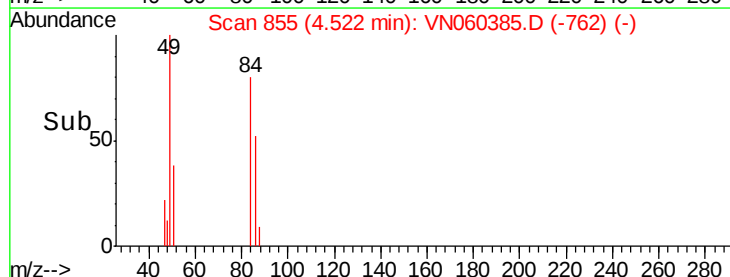
1000

500

0

Time-->

4.45 4.50 4.55 4.60





#25

2-Butanone

Concen: 2.072 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.01 min

Lab File: VN060385.D

Acq: 6 Mar 2020 16:59

Instrument :

MSVOA_N

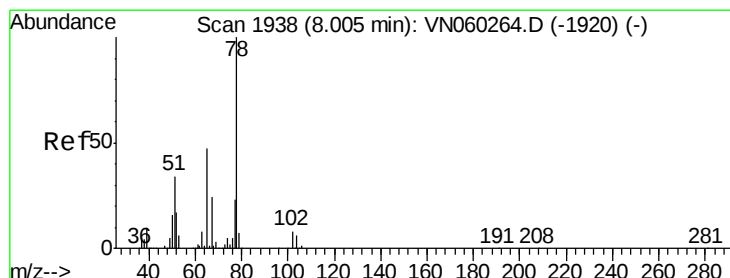
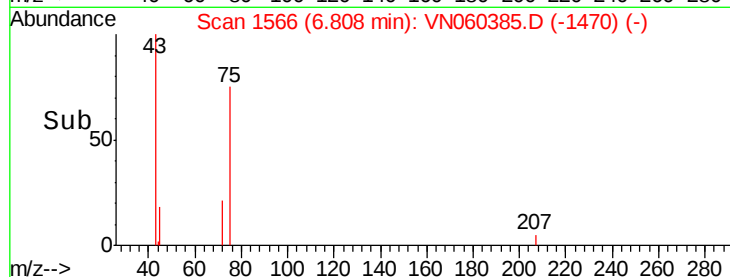
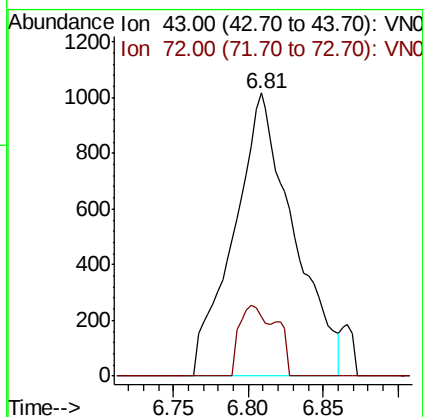
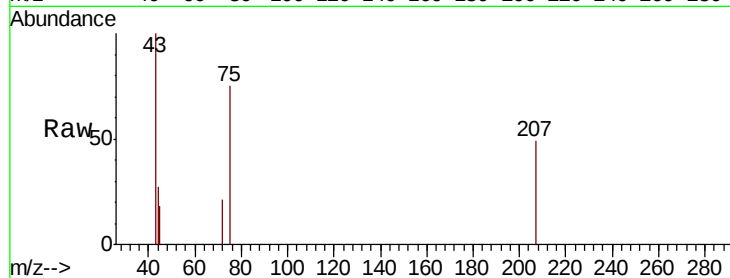
ClientSampleId :

Tot Ion: 43 Resp: 2816

Ion Ratio Lower Upper

43 100

72 20.8 20.9 31.3#



#33

1,2-Dichloroethane-d4

Concen: 50.006 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060385.D

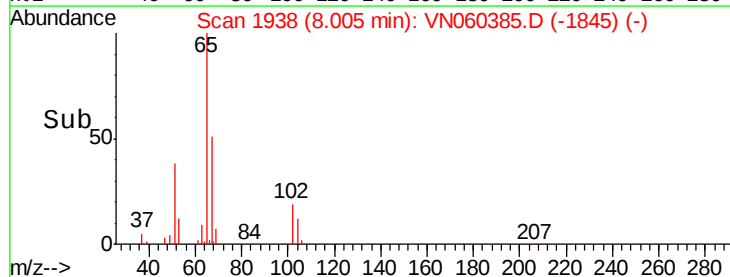
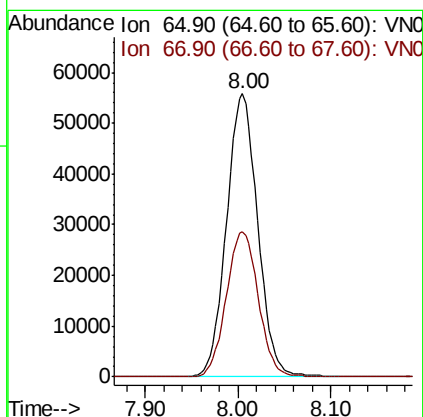
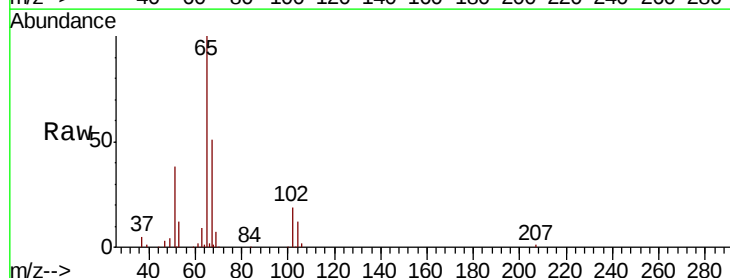
Acq: 6 Mar 2020 16:59

Tgt Ion: 65 Resp: 130275

Ion Ratio Lower Upper

65 100

67 52.6 0.0 103.8

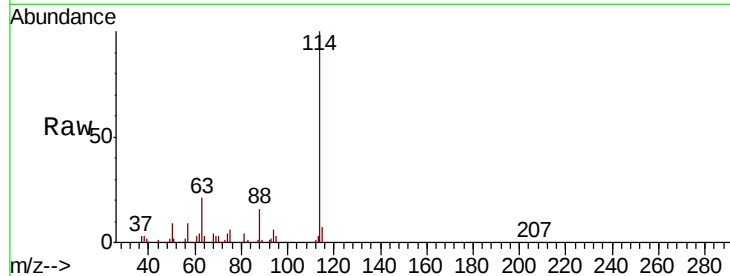




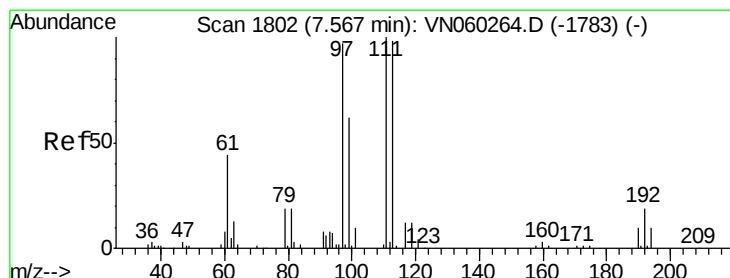
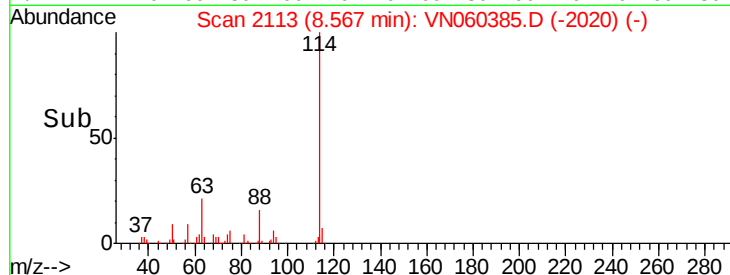
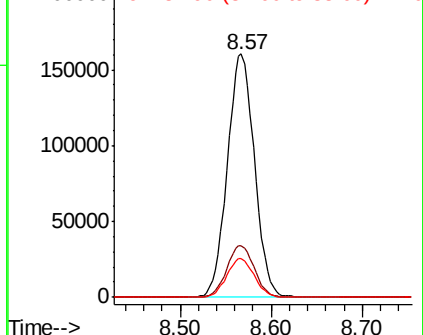
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060385.D
 Acq: 6 Mar 2020 16:59

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 332674
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 43.2
 88 16.0 0.0 31.6

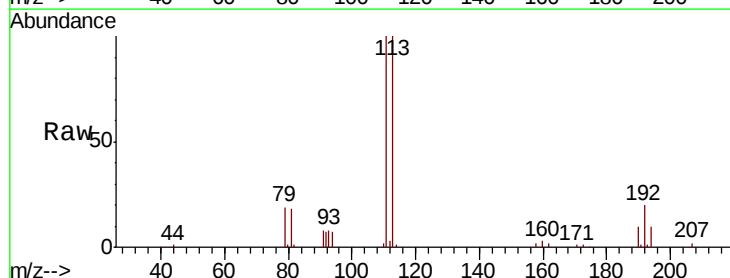


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

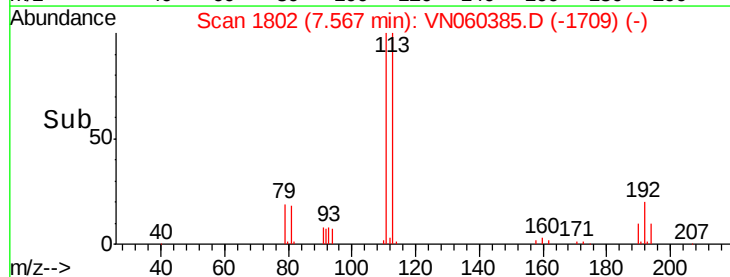
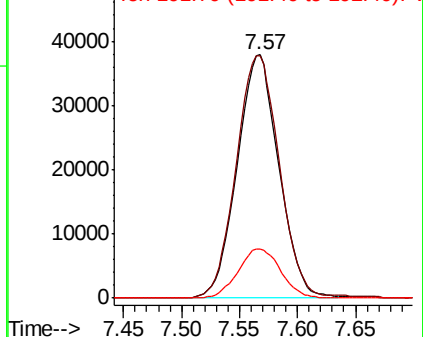


#35
 Dibromofluoromethane
 Concen: 61.194 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060385.D
 Acq: 6 Mar 2020 16:59

Tgt Ion:113 Resp: 94493
 Ion Ratio Lower Upper
 113 100
 111 103.0 82.4 123.6
 192 20.6 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: 4.944 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060385.D

Acq: 6 Mar 2020 16:59

Instrument :

MSVOA_N

ClientSampleId :

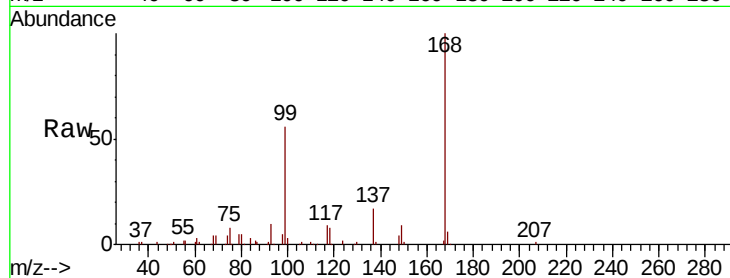
Tot Ion: 75 Resp: 15674

Ion Ratio Lower Upper

75 100

110 7.8 17.3 52.0#

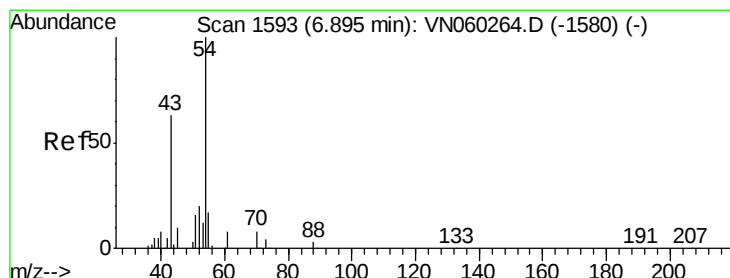
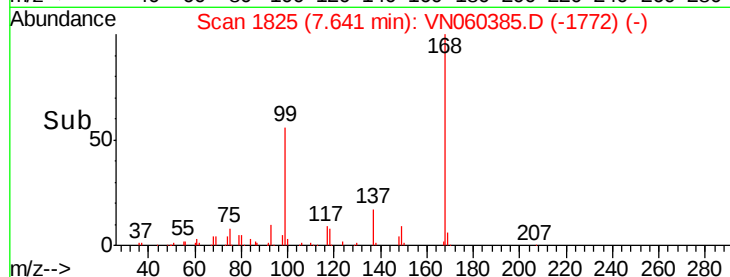
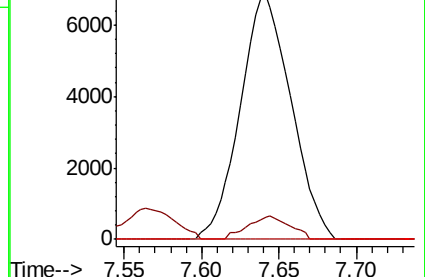
77 0.0 24.2 36.2#



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) (-)



#37

Ethyl Acetate

Concen: 0.938 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.09 min

Lab File: VN060385.D

Acq: 6 Mar 2020 16:59

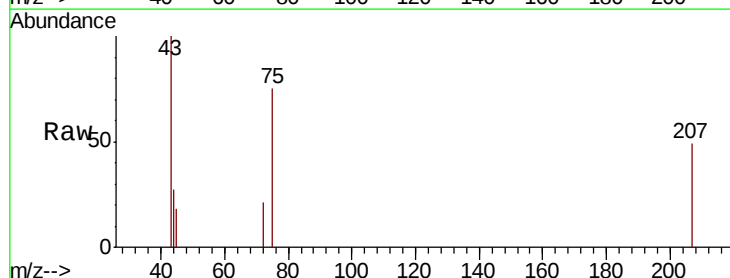
Tgt Ion: 43 Resp: 2816

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

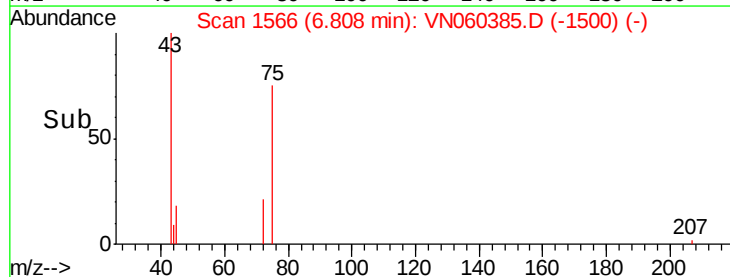
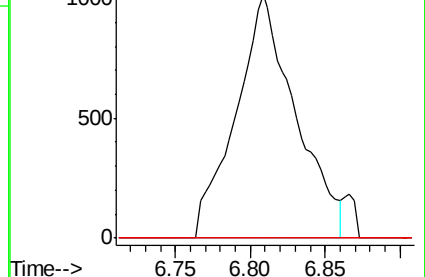
70 0.0 8.4 12.6#

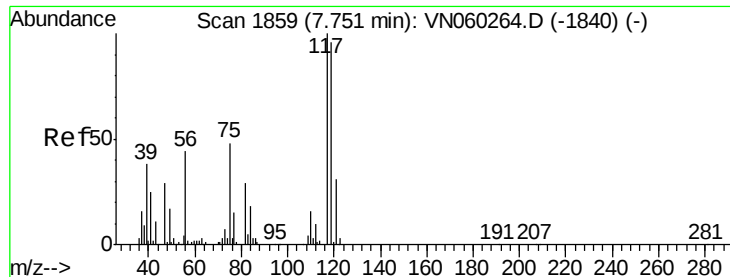


Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-1580) (-)

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

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





#38

Carbon Tetrachloride

Concen: 6.278 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060385.D

Acq: 6 Mar 2020 16:59

Instrument :

MSVOA_N

ClientSampleId :

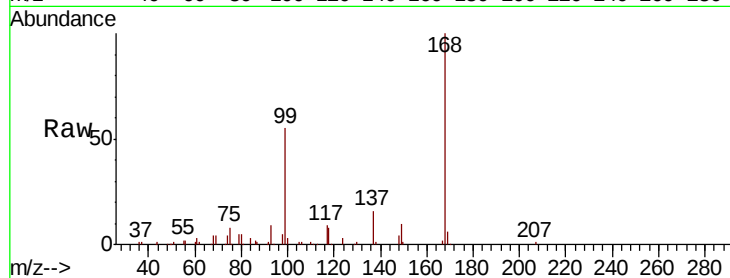
Tot Ion:117 Resp: 19381

Ion Ratio Lower Upper

117 100

119 5.1 76.7 115.1#

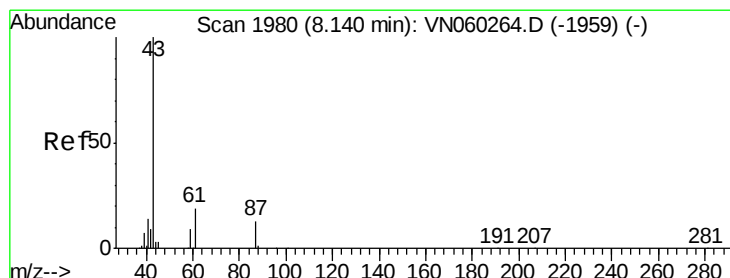
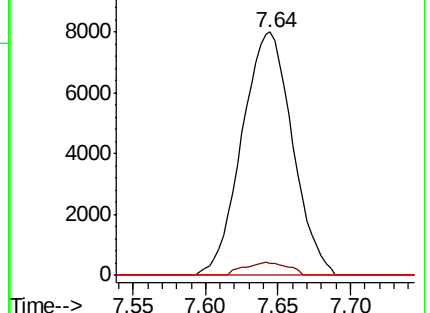
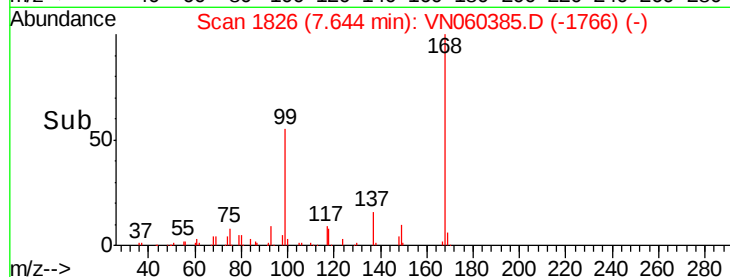
121 0.0 24.5 36.7#



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: 0.518 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060385.D

Acq: 6 Mar 2020 16:59

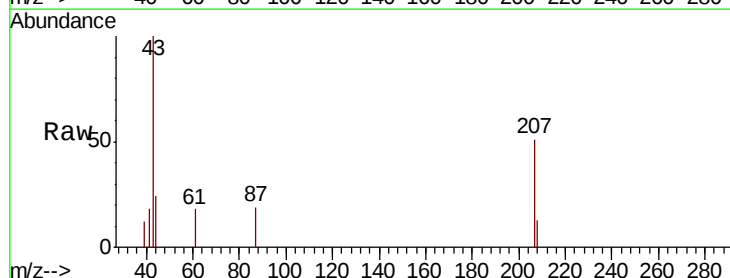
Tgt Ion: 43 Resp: 2721

Ion Ratio Lower Upper

43 100

61 14.3 20.9 31.3#

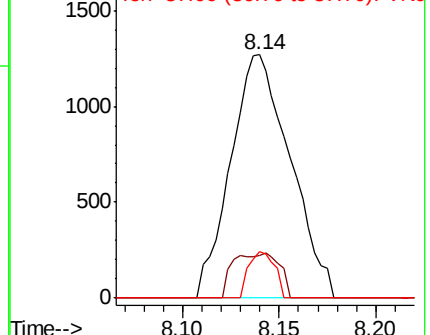
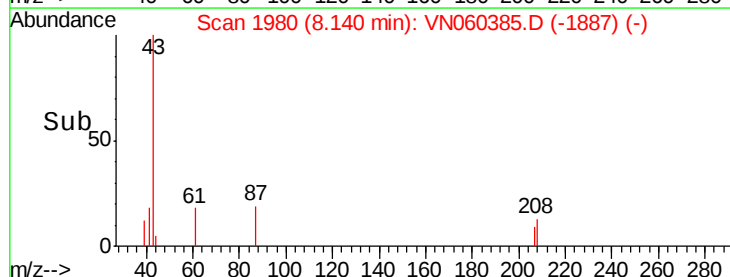
87 8.3 10.6 16.0#

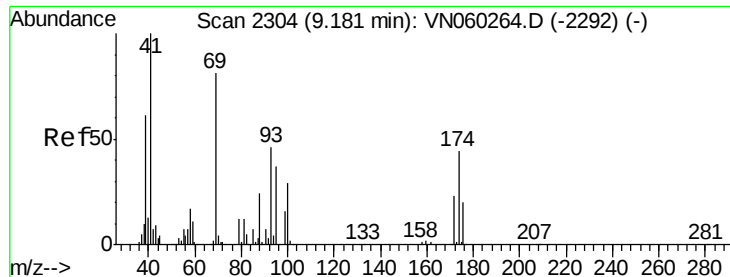


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

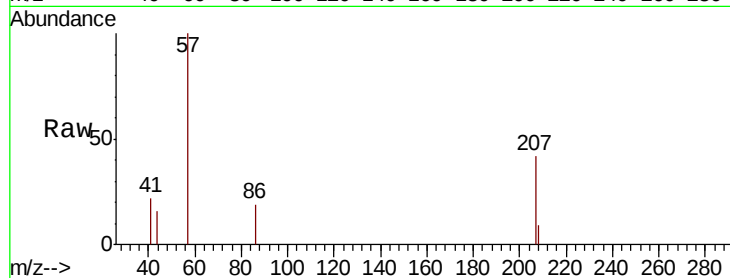




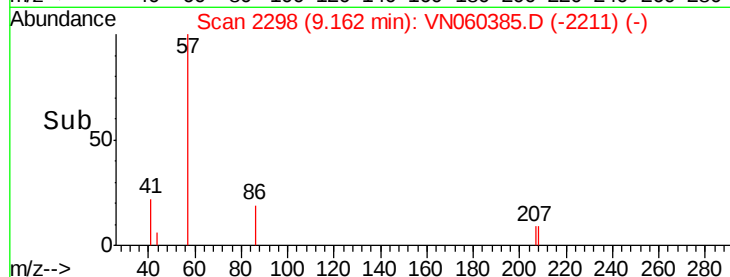
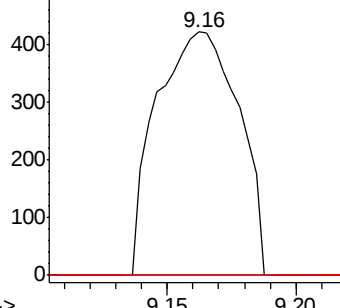
#48
Methyl methacrylate
Concen: 0.391 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060385.D
Acq: 6 Mar 2020 16:59

Instrument :
MSVOA_N
ClientSampled :

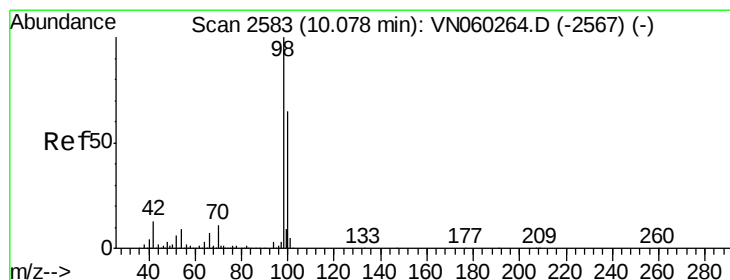
Tot Ion: 41 Resp: 937
Ion Ratio Lower Upper
41 100
69 0.0 66.7 100.1#
39 0.0 50.1 75.1#



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

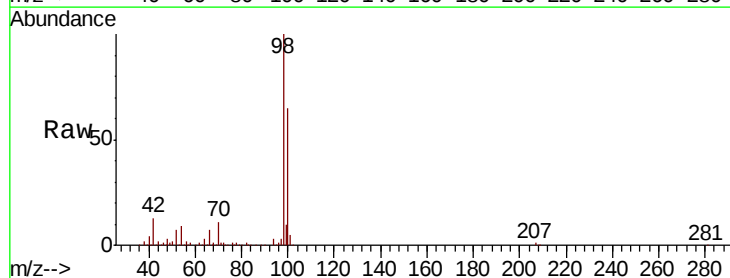


Time-->

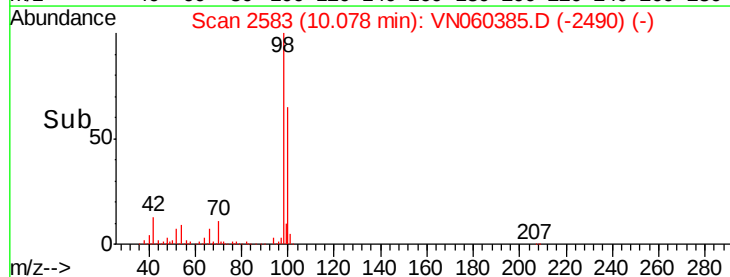
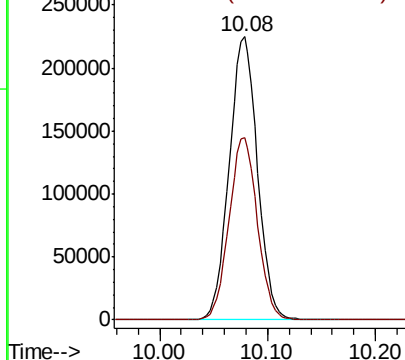


#50
Toluene-d8
Concen: 52.556 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060385.D
Acq: 6 Mar 2020 16:59

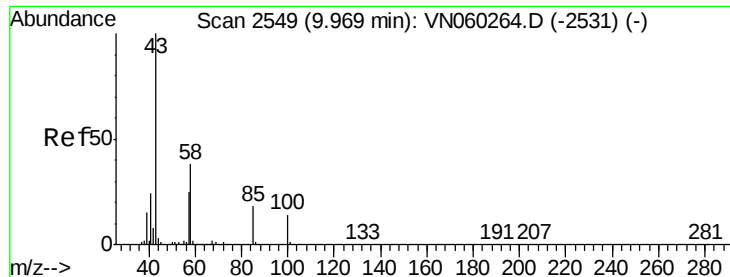
Tgt Ion: 98 Resp: 410737
Ion Ratio Lower Upper
98 100
100 64.6 52.2 78.2



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



Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.647 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060385.D

Acq: 6 Mar 2020 16:59

Instrument :

MSVOA_N

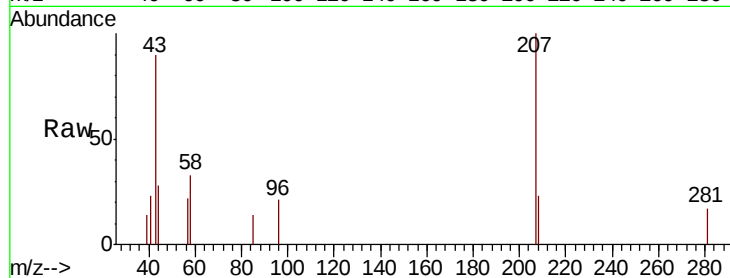
ClientSampled :

Tot Ion: 43 Resp: 1927

Ion Ratio Lower Upper

43 100

58 36.1 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-2531) (-)

Ion 58.00 (57.70 to 58.70): VN060264.D (-2531) (-)

9.97

1200

1000

800

600

400

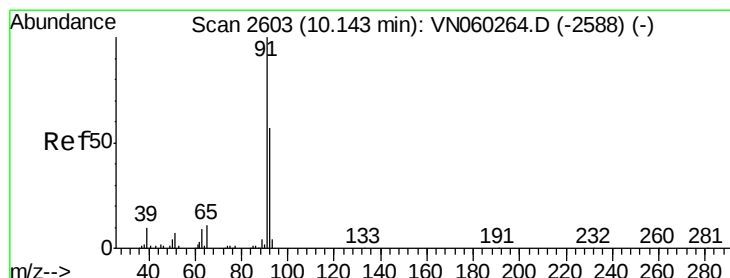
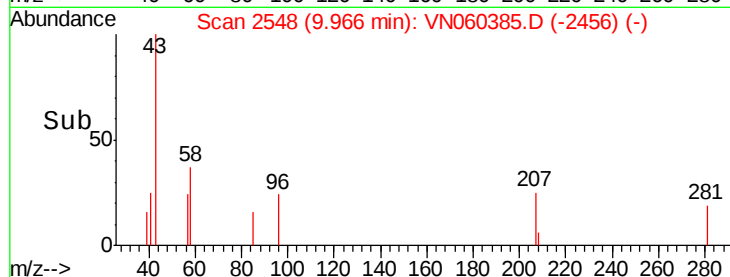
200

0

9.95

10.00

Time-->



#52

Toluene

Concen: 0.212 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN060385.D

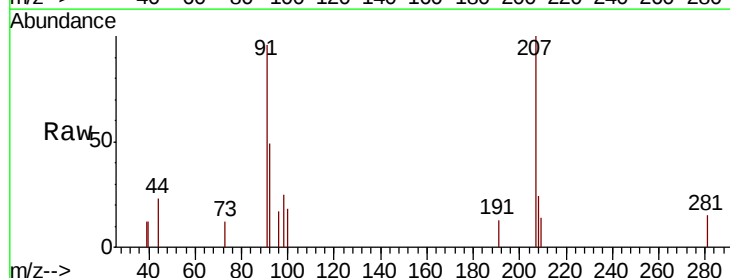
Acq: 6 Mar 2020 16:59

Tgt Ion: 92 Resp: 1227

Ion Ratio Lower Upper

92 100

91 179.2 138.1 207.1



Abundance Ion 92.00 (91.70 to 92.70): VN060264.D (-2588) (-)

Ion 91.00 (90.70 to 91.70): VN060264.D (-2588) (-)

1500

1000

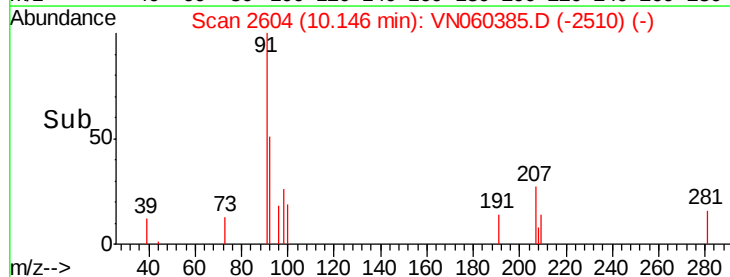
500

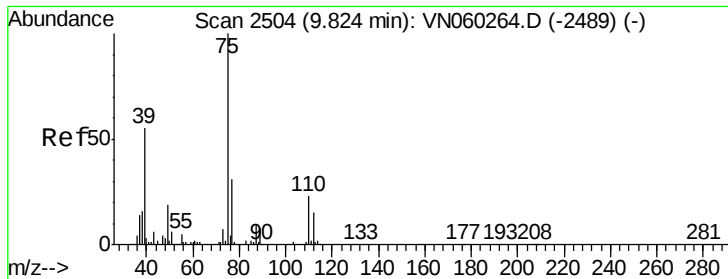
0

10.10

10.15

Time-->



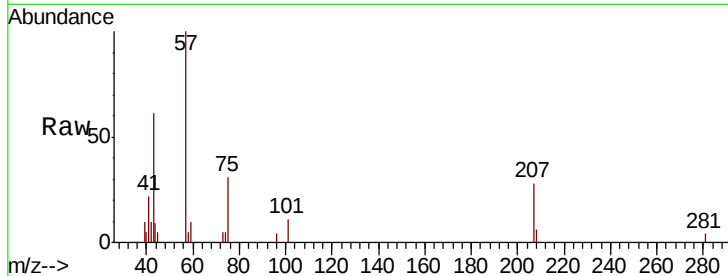


#54

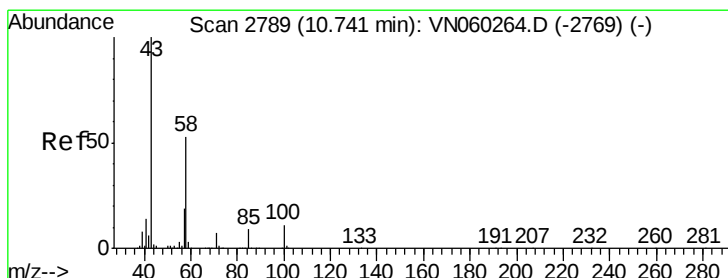
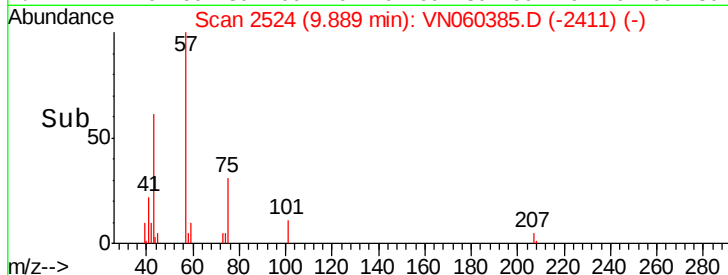
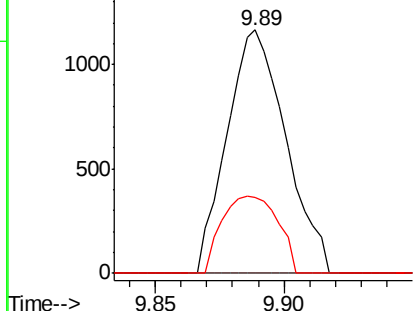
cis-1,3-Dichloropropene
 Concen: 0.459 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060385.D
 Acq: 6 Mar 2020 16:59

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.8	37.2#
39	31.2	43.8	65.8#



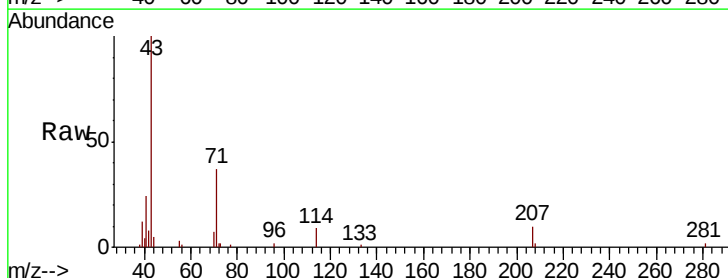
Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO



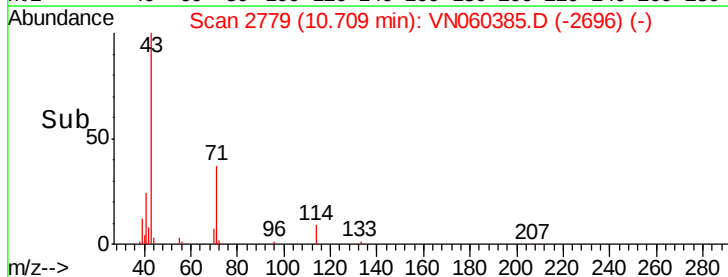
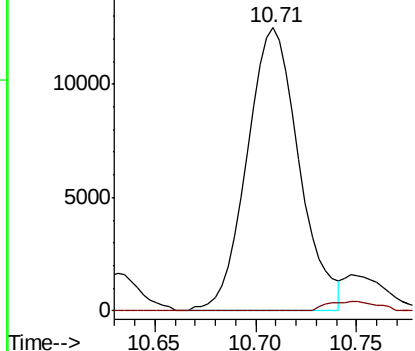
#59

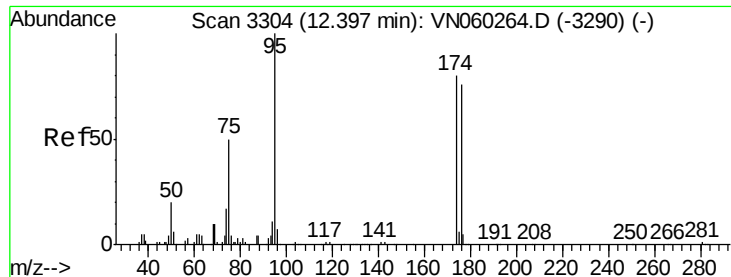
2-Hexanone
 Concen: 10.292 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. -0.03 min
 Lab File: VN060385.D
 Acq: 6 Mar 2020 16:59

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	26.5	79.5#



Abundance Ion 43.00 (42.70 to 43.70): VNO
 Ion 58.00 (57.70 to 58.70): VNO





#62

4-Bromofluorobenzene

Concen: 52.342 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060385.D

Acq: 6 Mar 2020 16:59

Instrument :

MSVOA_N

ClientSampleId :

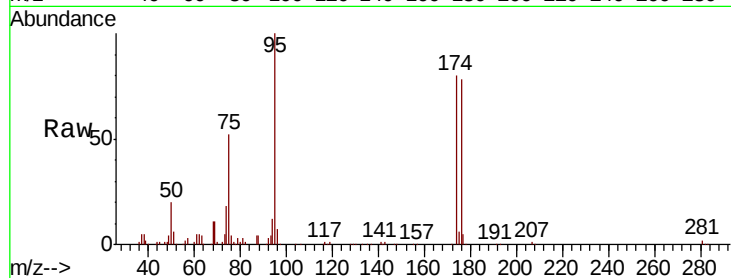
Tot Ion: 95 Resp: 155066

Ion Ratio Lower Upper

95 100

174 79.7 0.0 159.2

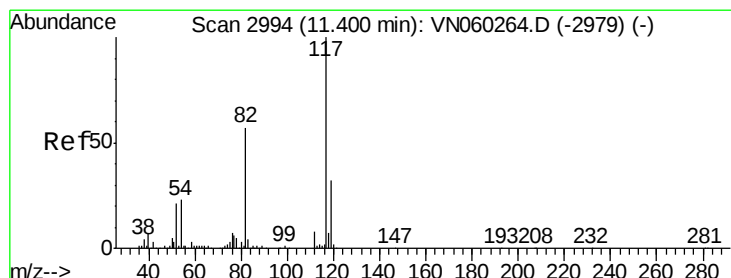
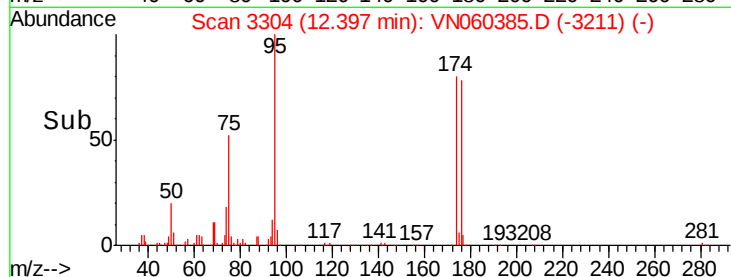
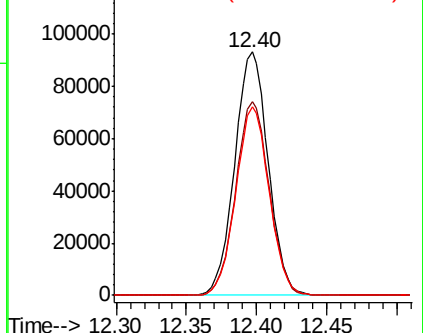
176 77.1 0.0 153.8



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: VN060385.D

Acq: 6 Mar 2020 16:59

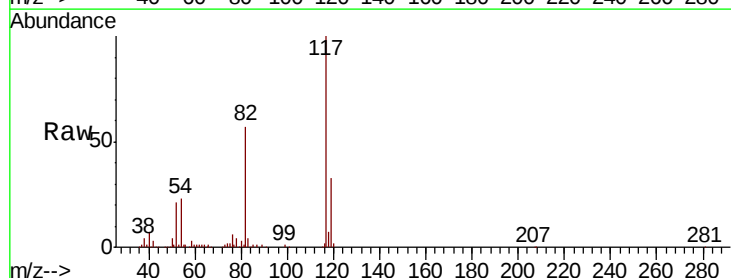
Tgt Ion: 117 Resp: 314735

Ion Ratio Lower Upper

117 100

82 57.3 45.8 68.6

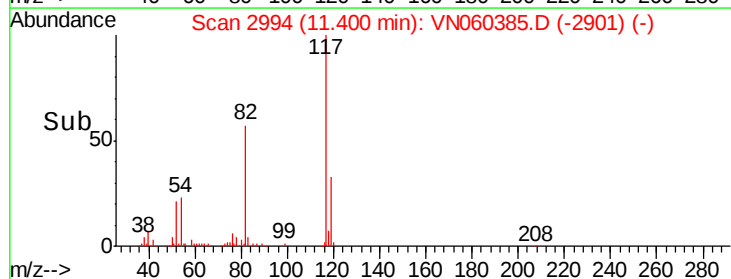
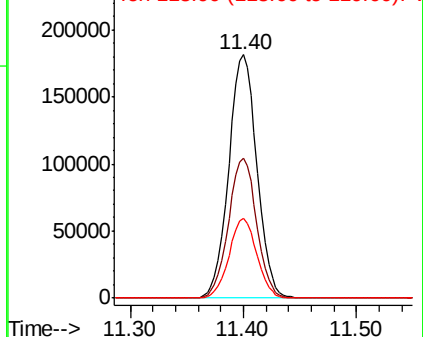
119 32.6 25.8 38.8

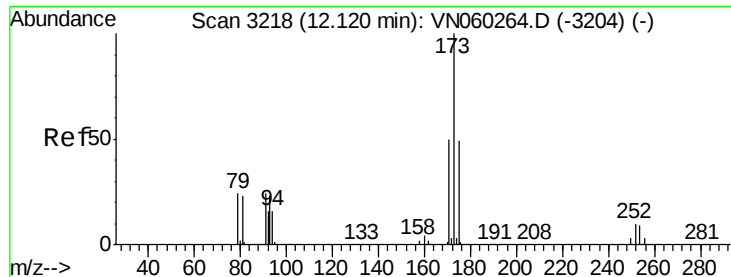


Abundance Ion 116.90 (116.60 to 117.60): VN060264.D (-2979) (-)

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

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





#71

Bromoform

Concen: 0.429 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN060385.D

Acq: 6 Mar 2020 16:59

Instrument :

MSVOA_N

ClientSampled :

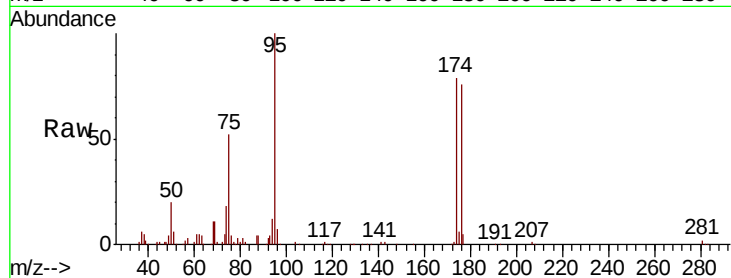
Tot Ion:173 Resp: 726

Ion Ratio Lower Upper

173 100

175 1056.9 24.1 72.2#

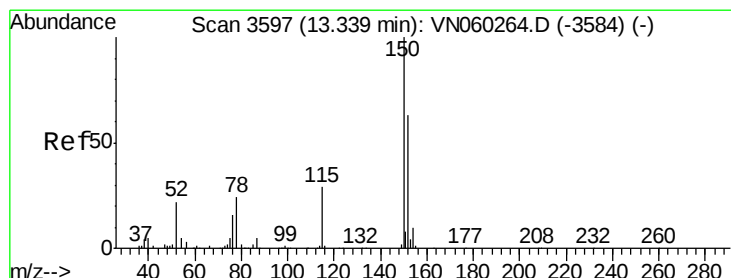
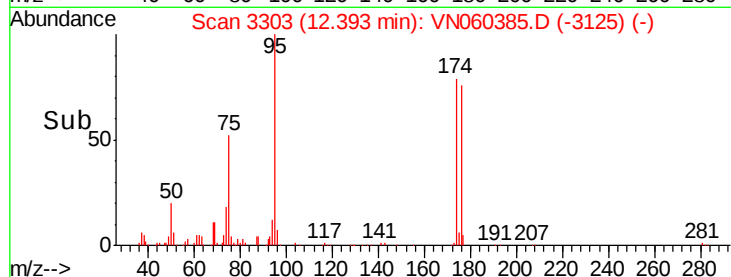
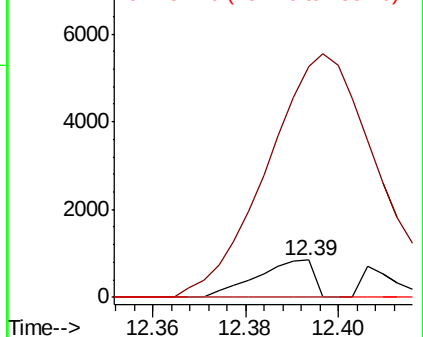
254 0.0 0.0 0.0



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: VN060385.D

Acq: 6 Mar 2020 16:59

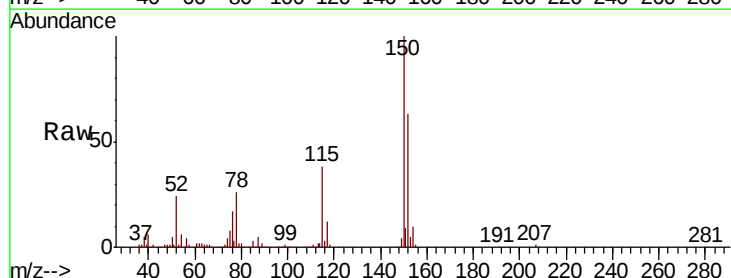
Tgt Ion:152 Resp: 147728

Ion Ratio Lower Upper

152 100

115 59.4 30.0 90.0

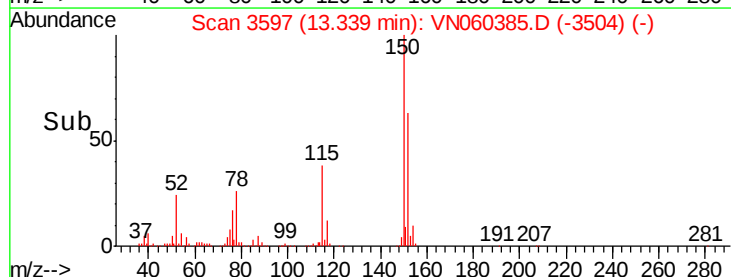
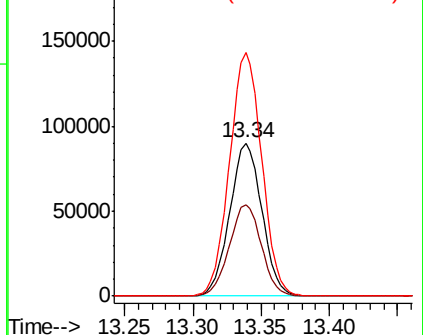
150 159.7 0.0 349.6

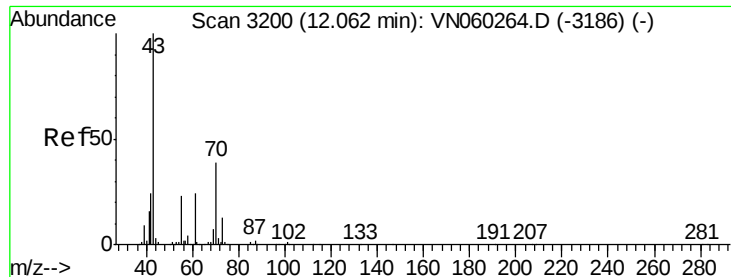


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.250 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060385.D

Acq: 6 Mar 2020 16:59

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 1198

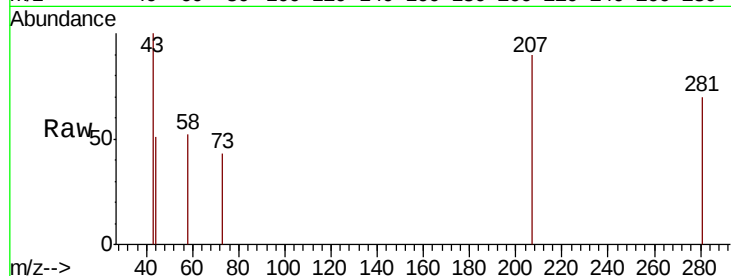
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

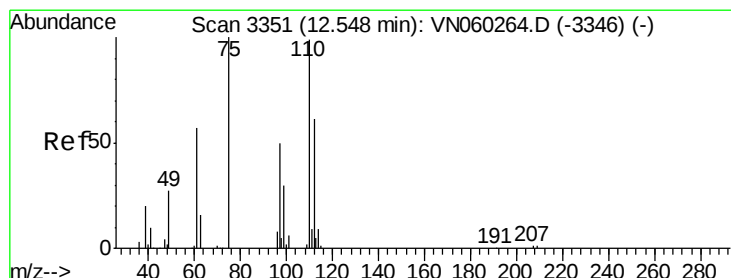
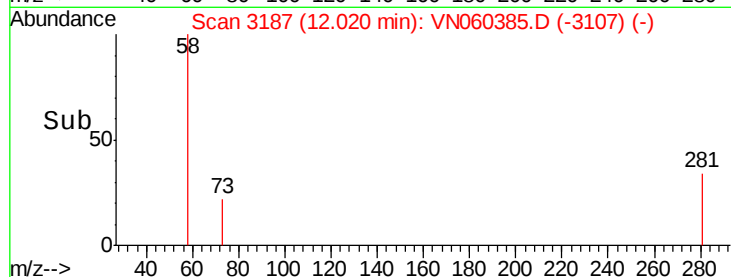
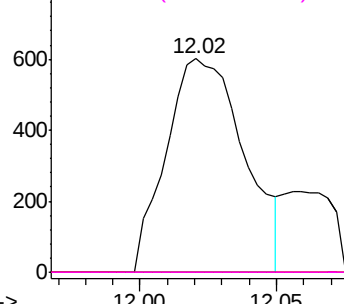


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 24.819 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060385.D

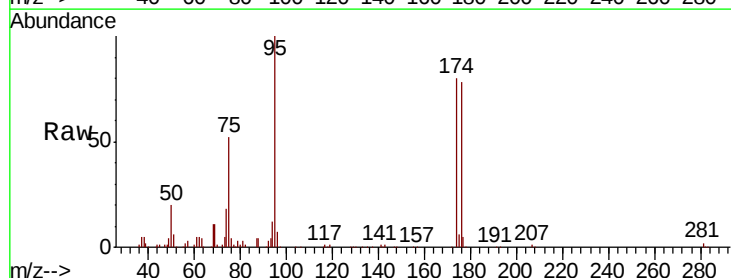
Acq: 6 Mar 2020 16:59

Tgt Ion: 75 Resp: 80443

Ion Ratio Lower Upper

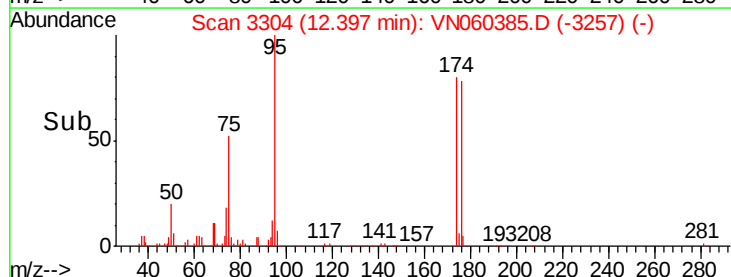
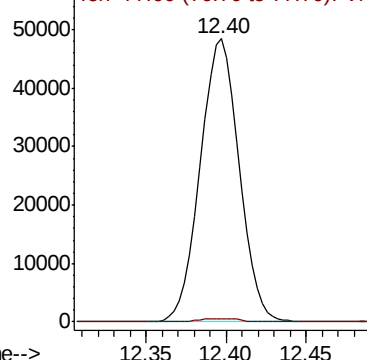
75 100

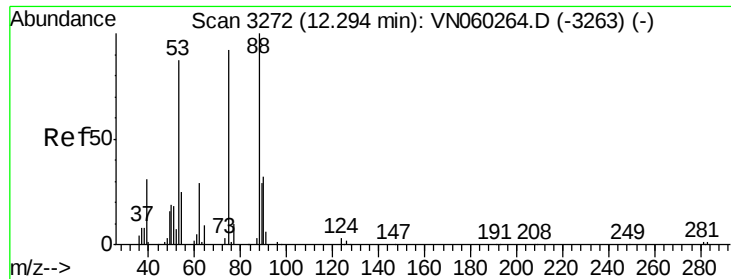
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

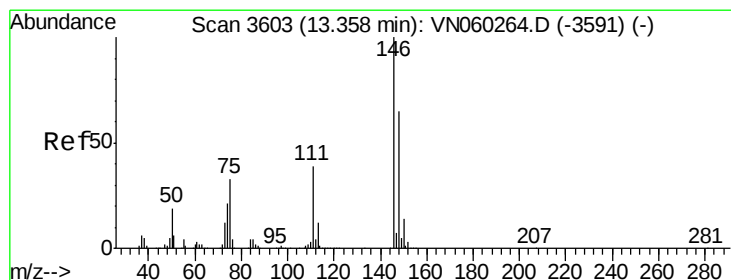
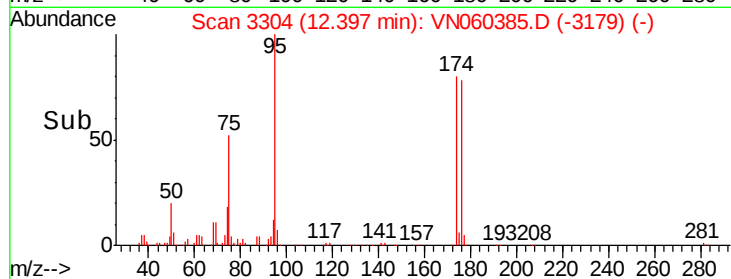
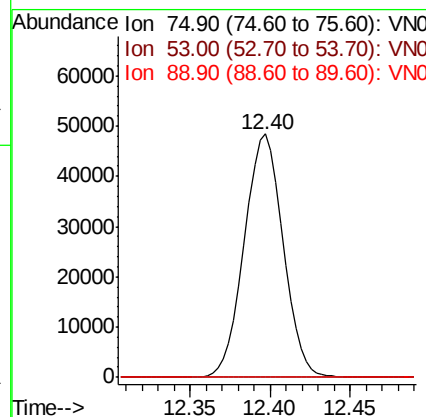
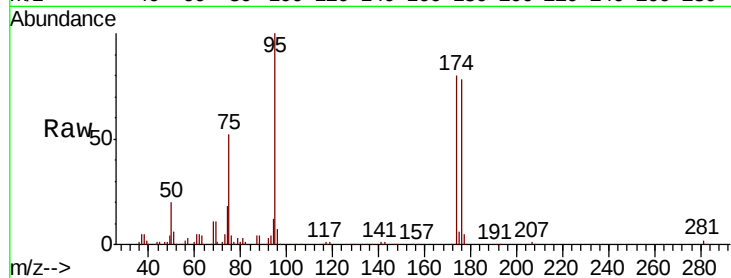




#81
trans-1,4-Dichloro-2-butene
Concen: 68.513 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN060385.D
Acq: 6 Mar 2020 16:59

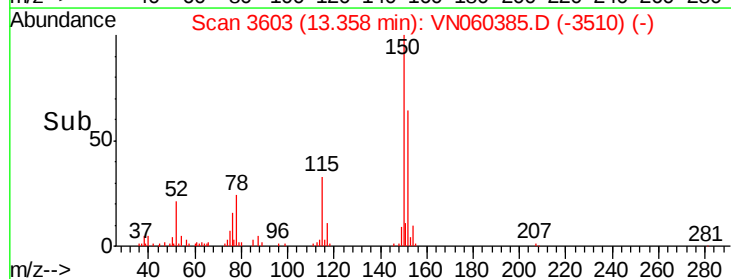
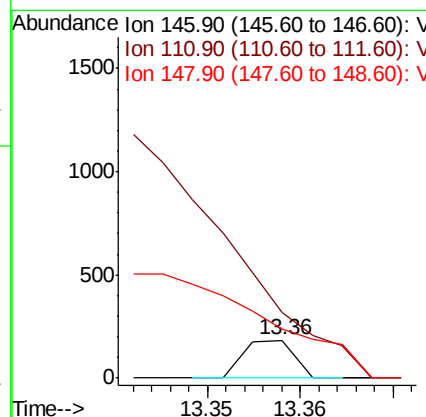
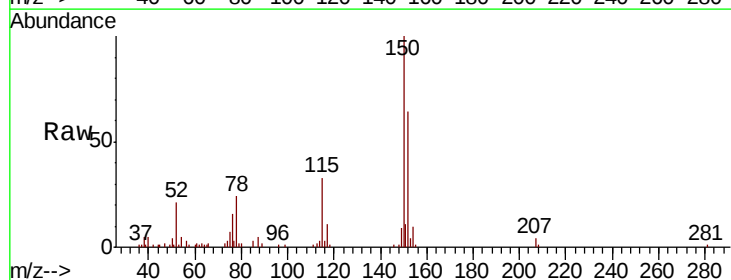
Instrument :
MSVOA_N
ClientSampleId :

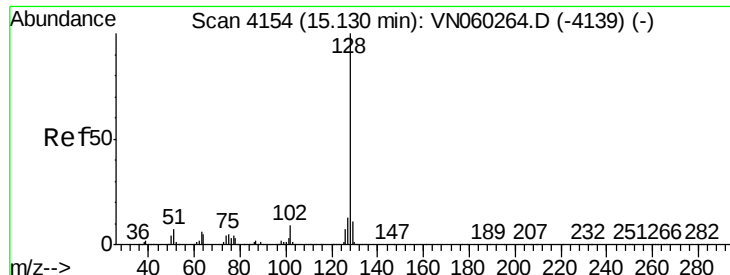
Tot Ion: 75 Resp: 80443
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.0 57.1 85.7#



#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 13.36 min Scan# 3603
Delta R.T. 0.00 min
Lab File: VN060385.D
Acq: 6 Mar 2020 16:59

Tgt Ion: 146 Resp: 69
Ion Ratio Lower Upper
146 100
111 3030.4 19.8 59.4#
148 1165.2 32.3 96.9#





#95

Naphthalene

Concen: 0.623 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060385.D

Acq: 6 Mar 2020 16:59

Instrument :

MSVOA_N

ClientSampleId :

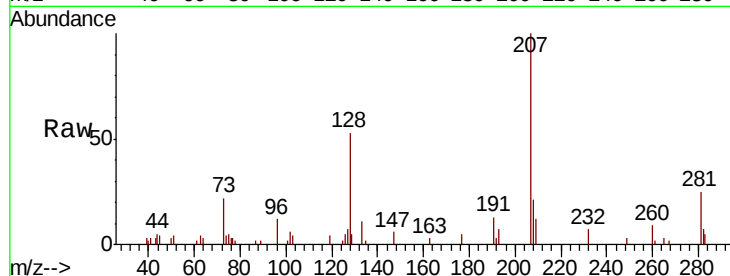
Tot Ion:128 Resp: 7842

Ion Ratio Lower Upper

128 100

127 11.9 10.4 15.6

129 9.3 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

