

Data File : VN060451.D
Acq On : 11 Mar 2020 15:34
Operator : JC/MD
Sample : L1864-05
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
SP-2

Quant Time: Mar 12 03:38:55 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	190311	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	312469	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	301245	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	141402	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	123795	50.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.40%	
35) Dibromofluoromethane	7.56	113	93652	64.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	129.14%	
50) Toluene-d8	10.08	98	389838	53.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.22%	
62) 4-Bromofluorobenzene	12.40	95	147661	53.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.14%	

Target Compounds

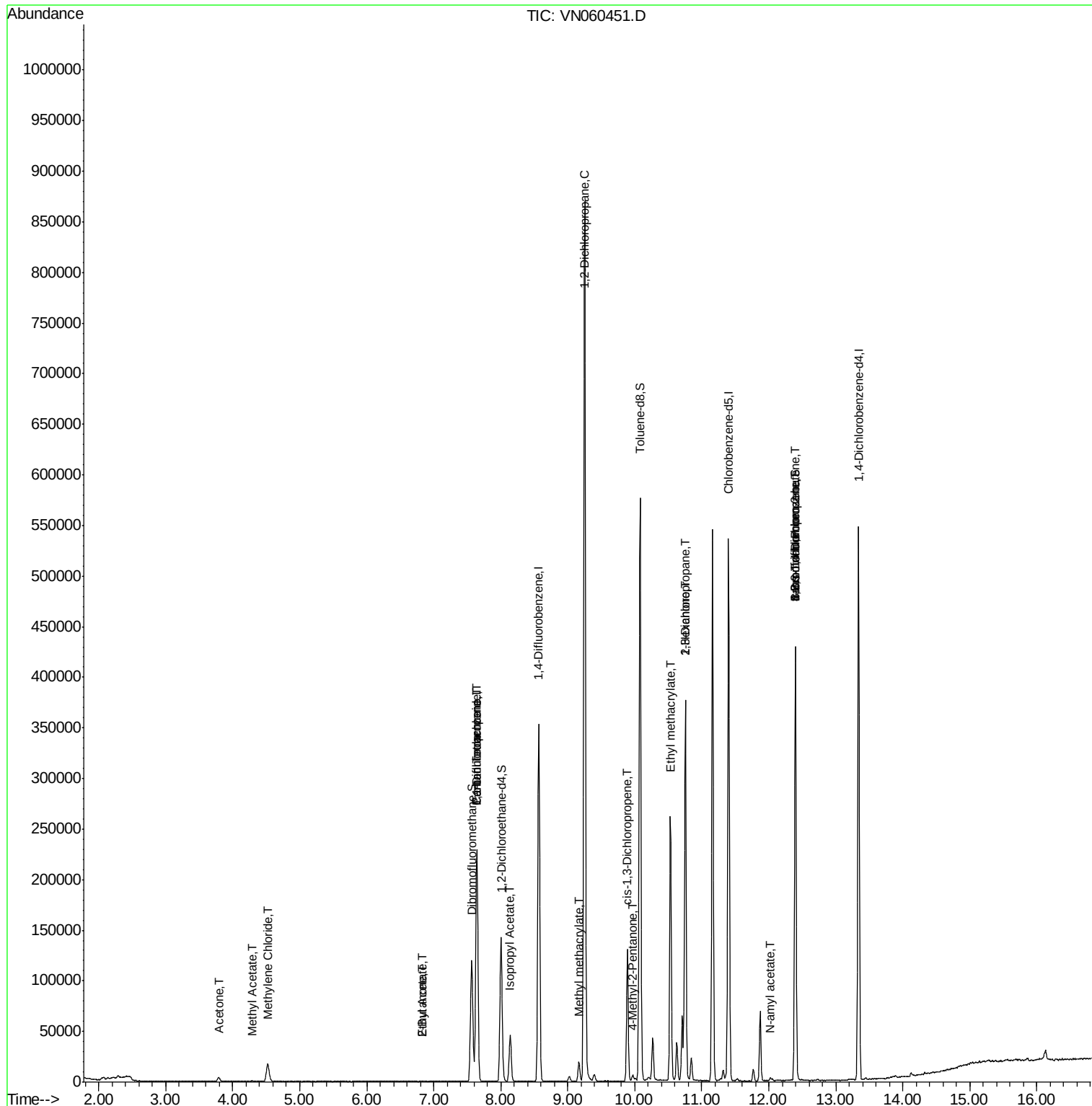
						Qvalue
16) Acetone	3.79	43	6790	8.611	ug/l	99
18) Methyl Acetate	4.29	43	738	0.280	ug/l #	77
20) Methylene Chloride	4.52	84	12930	5.971	ug/l	97
25) 2-Butanone	6.82	43	969	0.761	ug/l #	49
31) Cyclohexane	7.64	56	3835	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	14635	4.914	ug/l #	50
37) Ethyl Acetate	6.82	43	969	0.344	ug/l #	68
38) Carbon Tetrachloride	7.64	117	18303	6.313	ug/l #	16
43) Isopropyl Acetate	8.14	43	54777	11.096	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1062	0.469	ug/l #	44
48) Methyl methacrylate	9.16	41	2892	1.285	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	4133	1.477	ug/l	90
54) cis-1,3-Dichloropropene	9.89	75	23334	6.145	ug/l #	59
56) Ethyl methacrylate	10.54	69	702	0.223	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	3581	1.003	ug/l #	42
59) 2-Hexanone	10.75	43	54964	26.746	ug/l #	52
71) Bromoform	12.40	173	775	0.478	ug/l #	1
74) N-amyl acetate	12.02	43	2615	0.571	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	76320	24.601	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	76320	67.909	ug/l #	8
95) Naphthalene	15.13	128	225	Below Cal	#	69

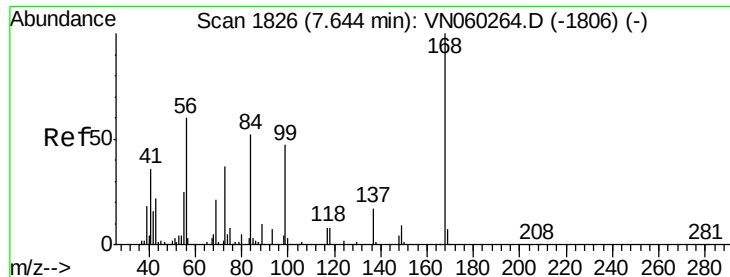
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN060451.D

Acq: 11 Mar 2020 15:34

Instrument :

MSVOA_N

ClientSampled :

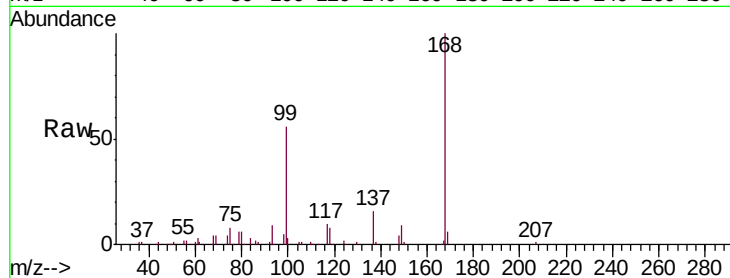
SP-2

Tgt Ion:168 Resp: 190311

Ion Ratio Lower Upper

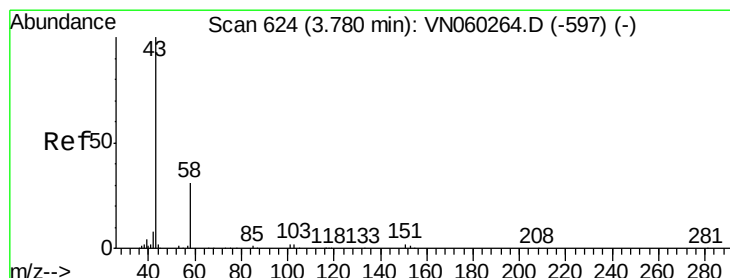
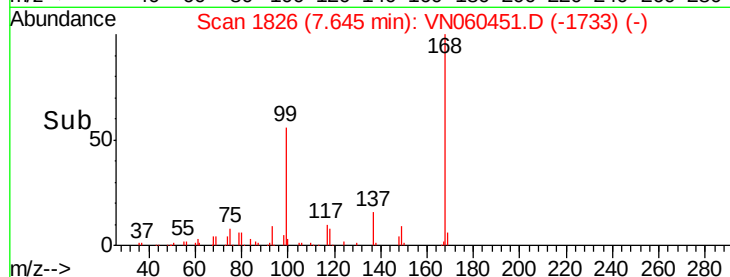
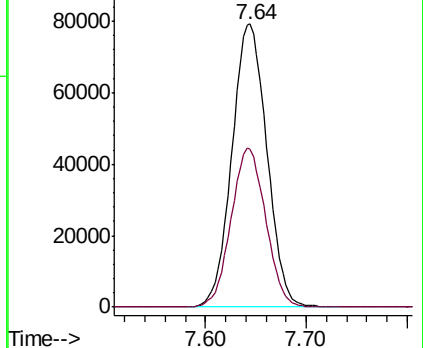
168 100

99 55.8 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 8.611 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060451.D

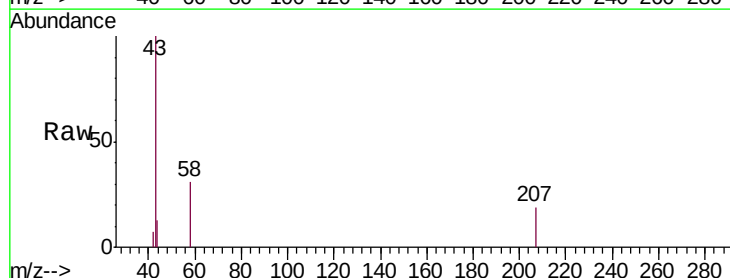
Acq: 11 Mar 2020 15:34

Tgt Ion: 43 Resp: 6790

Ion Ratio Lower Upper

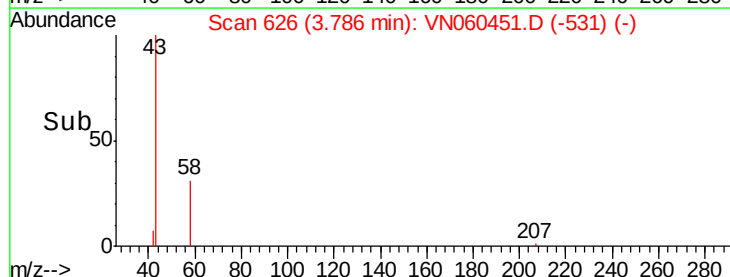
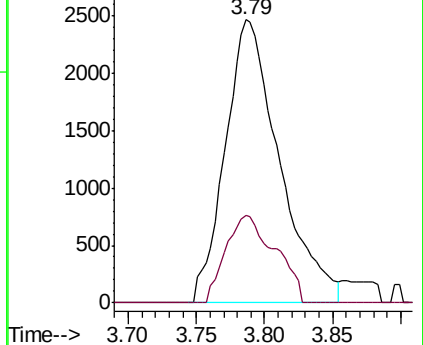
43 100

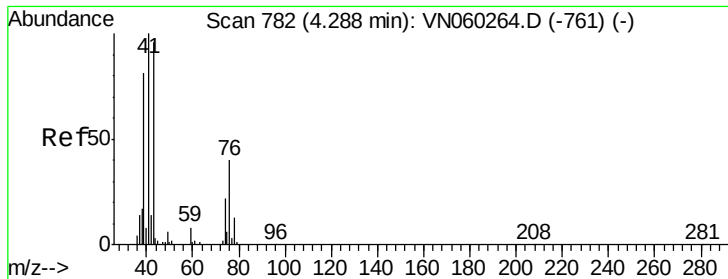
58 31.1 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

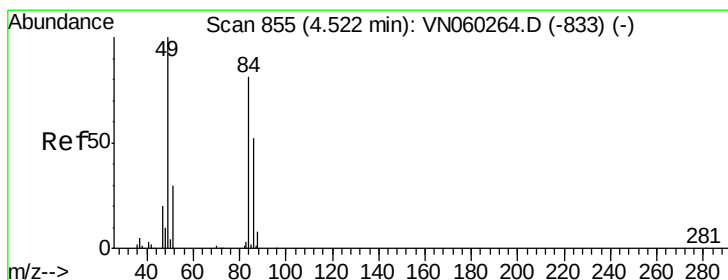
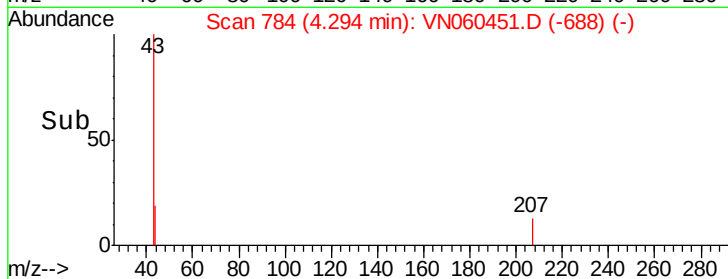
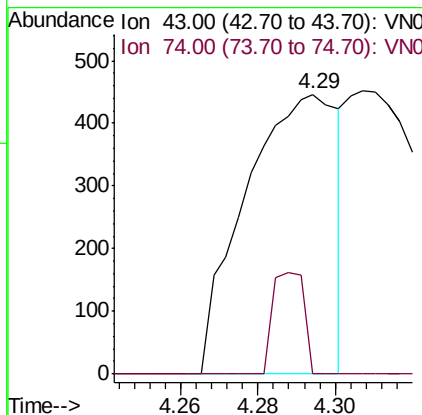
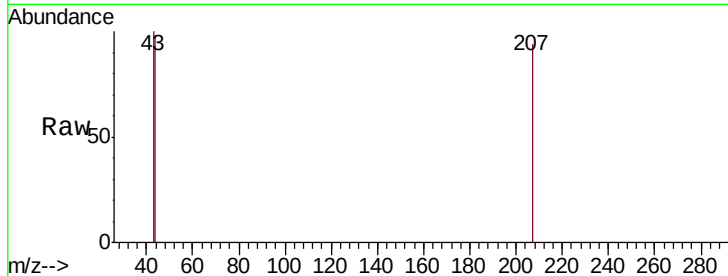




#18
Methyl Acetate
Concen: 0.280 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN060451.D
Acq: 11 Mar 2020 15:34

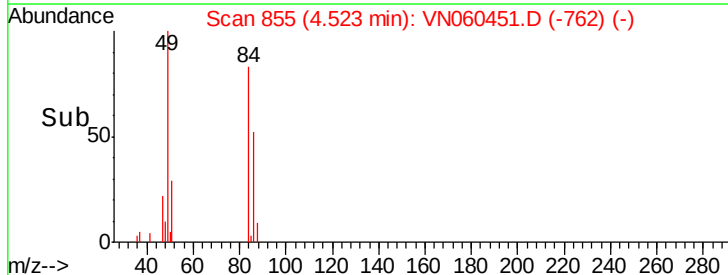
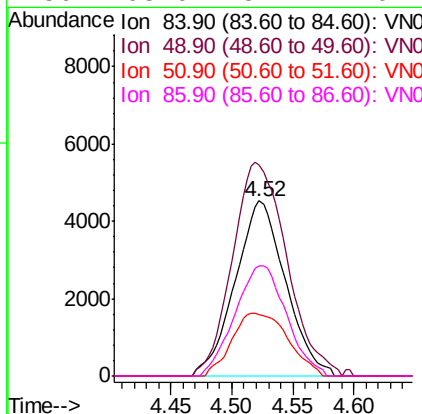
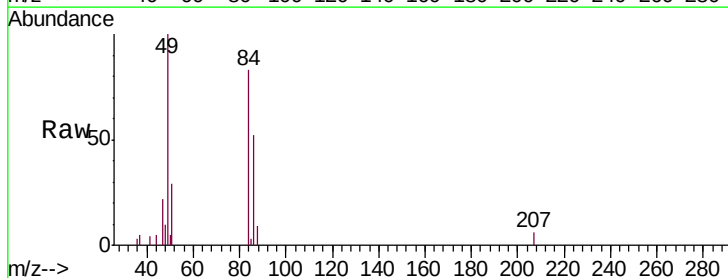
Instrument :
MSVOA_N
ClientSampled :
SP-2

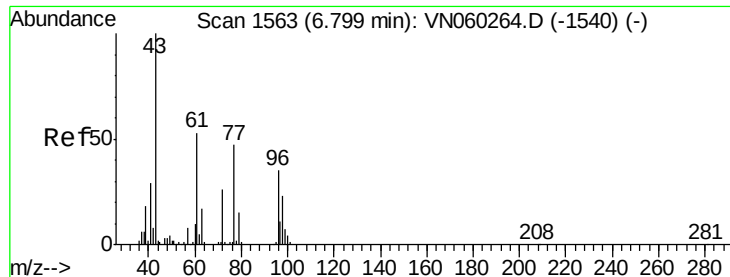
Tgt Ion: 43 Resp: 738
Ion Ratio Lower Upper
43 100
74 12.3 18.8 28.2#



#20
Methylene Chloride
Concen: 5.971 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060451.D
Acq: 11 Mar 2020 15:34

Tgt Ion: 84 Resp: 12930
Ion Ratio Lower Upper
84 100
49 120.7 99.3 148.9
51 34.7 30.1 45.1
86 63.0 51.1 76.7

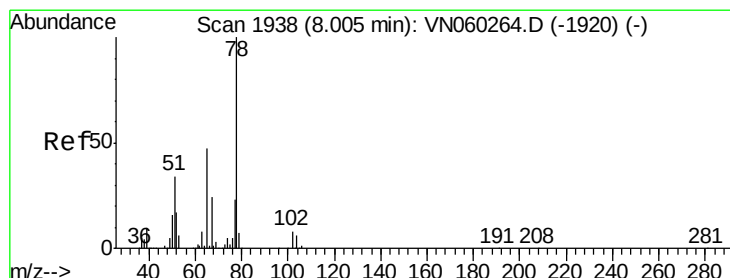
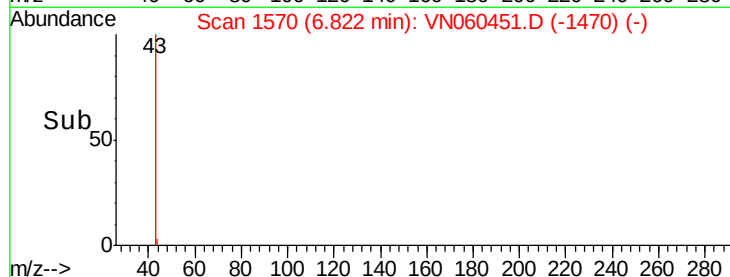
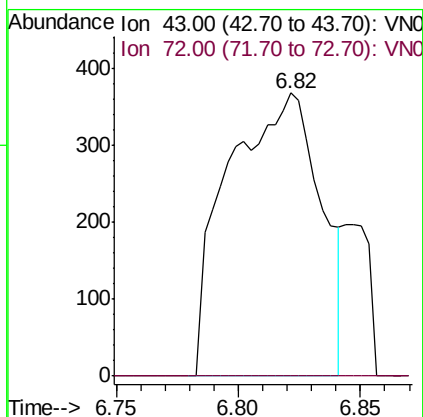
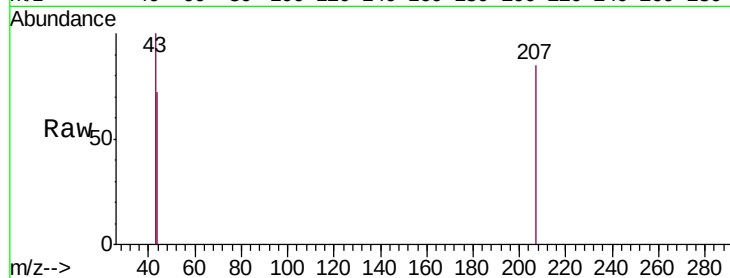




#25
2-Butanone
Concen: 0.761 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. 0.02 min
Lab File: VN060451.D
Acq: 11 Mar 2020 15:34

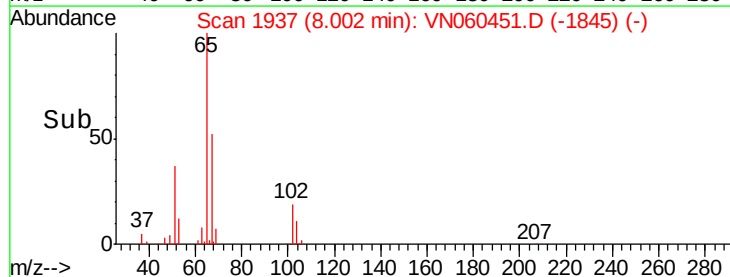
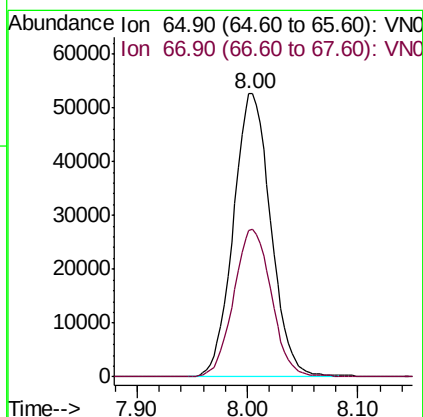
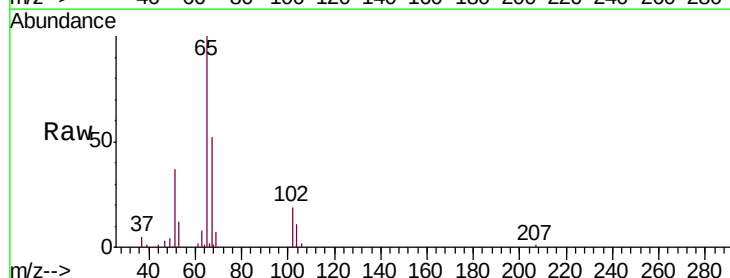
Instrument :
MSVOA_N
ClientSampled :
SP-2

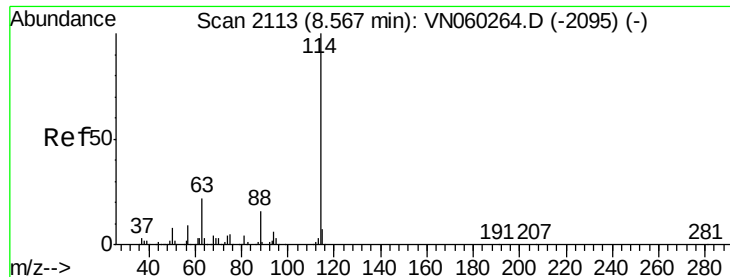
Tgt Ion: 43 Resp: 969
Ion Ratio Lower Upper
43 100
72 0.0 20.9 31.3#



#33
1,2-Dichloroethane-d4
Concen: 50.700 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VN060451.D
Acq: 11 Mar 2020 15:34

Tgt Ion: 65 Resp: 123795
Ion Ratio Lower Upper
65 100
67 52.5 0.0 103.8

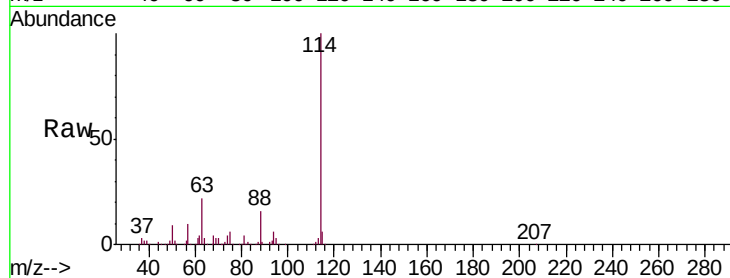




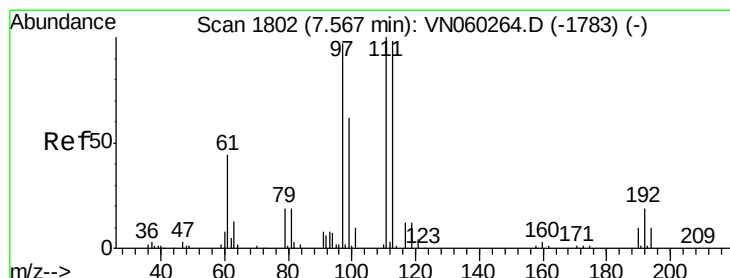
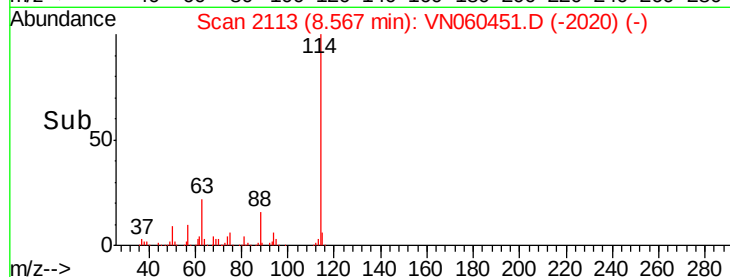
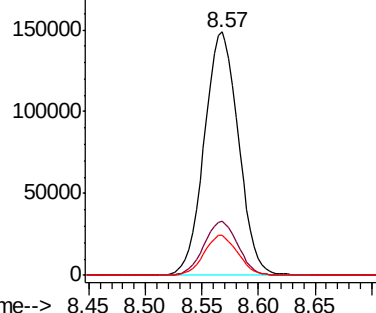
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2113
Delta R.T. 0.00 min
Lab File: VN060451.D
Acq: 11 Mar 2020 15:34

Instrument :
MSVOA_N
ClientSampleId :
SP-2

Tgt Ion:	114	Resp:	312469
Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	43.2
88	16.2	0.0	31.6

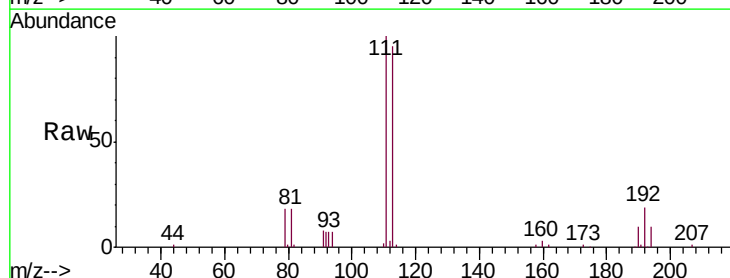


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

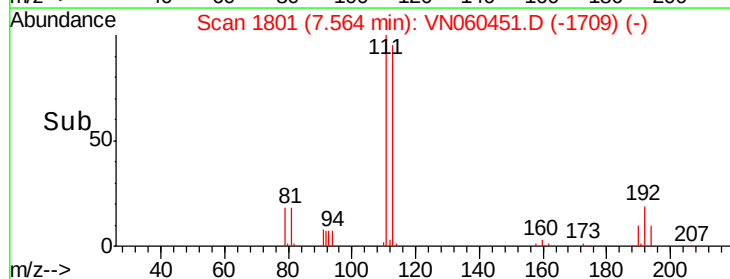
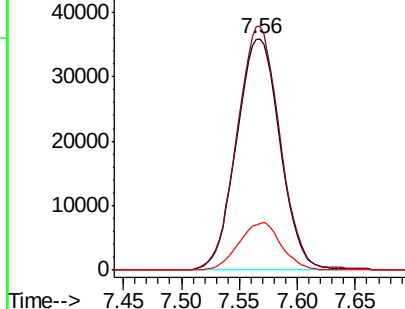


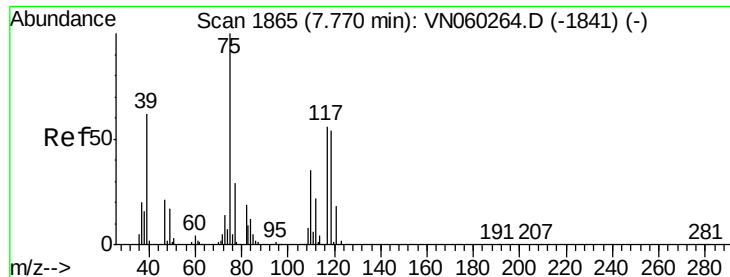
#35
Dibromofluoromethane
Concen: 64.571 ug/l
RT: 7.56 min Scan# 1801
Delta R.T. -0.00 min
Lab File: VN060451.D
Acq: 11 Mar 2020 15:34

Tgt Ion:	113	Resp:	93652
Ion	Ratio	Lower	Upper
113	100		
111	104.1	82.4	123.6
192	20.0	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: 4.914 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060451.D

Acq: 11 Mar 2020 15:34

Instrument :

MSVOA_N

ClientSampled :

SP-2

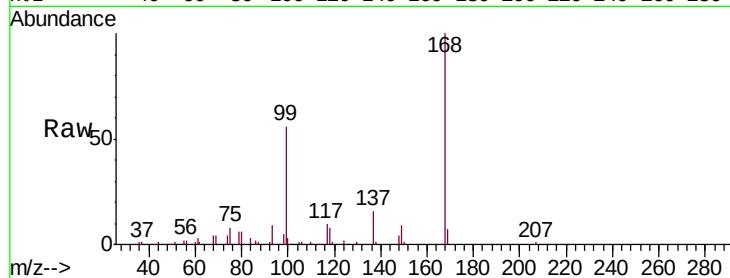
Tgt Ion: 75 Resp: 14635

Ion Ratio Lower Upper

75 100

110 8.2 17.3 52.0#

77 0.0 24.2 36.2#

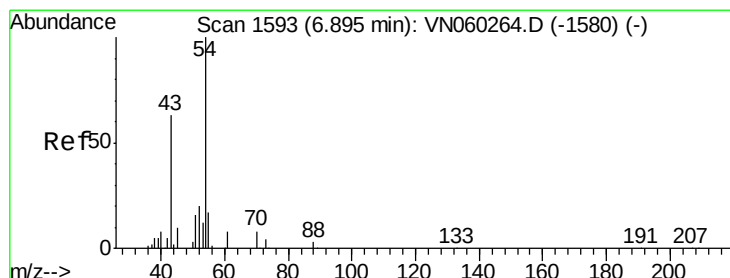
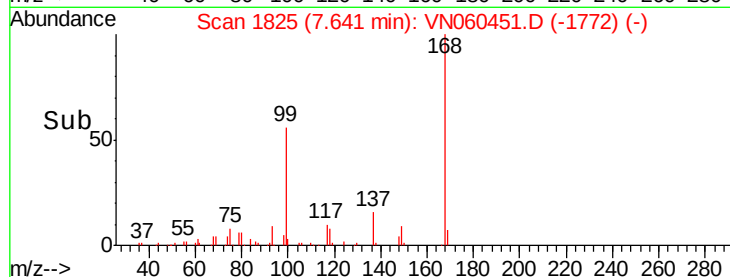


Abundance Ion 74.90 (74.60 to 75.60): VN060264.D (-1841) (-)

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

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

Time-->



#37

Ethyl Acetate

Concen: 0.344 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.07 min

Lab File: VN060451.D

Acq: 11 Mar 2020 15:34

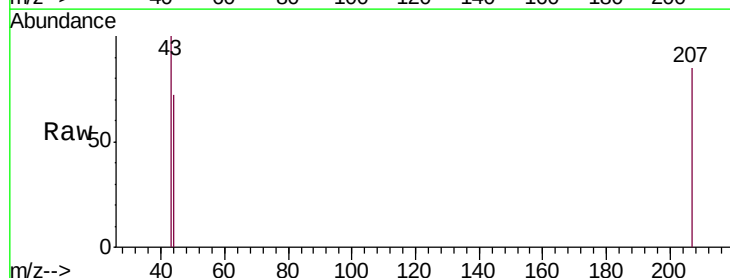
Tgt Ion: 43 Resp: 969

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 8.4 12.6#

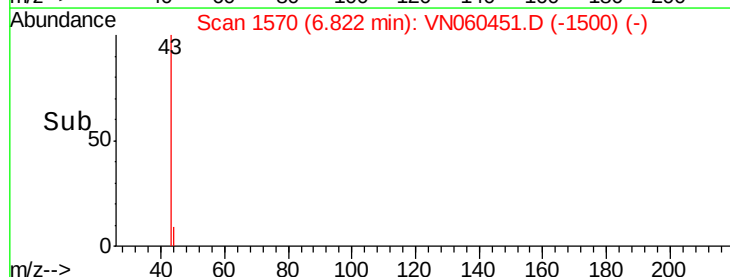


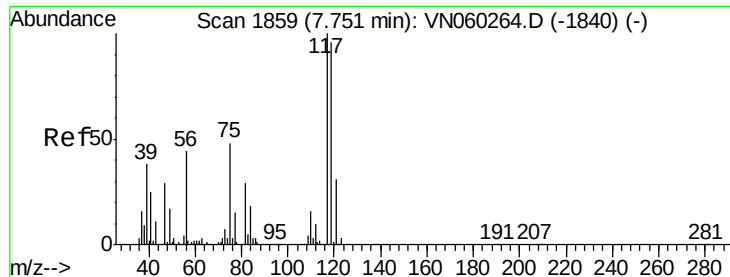
Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-1580) (-)

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

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

Time-->





#38

Carbon Tetrachloride

Concen: 6.313 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060451.D

Acq: 11 Mar 2020 15:34

Instrument :

MSVOA_N

ClientSampled :

SP-2

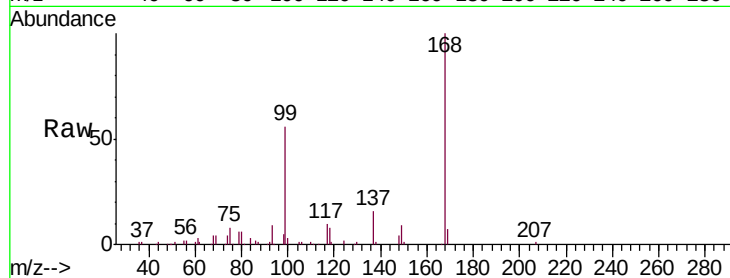
Tgt Ion:117 Resp: 18303

Ion Ratio Lower Upper

117 100

119 5.4 76.7 115.1#

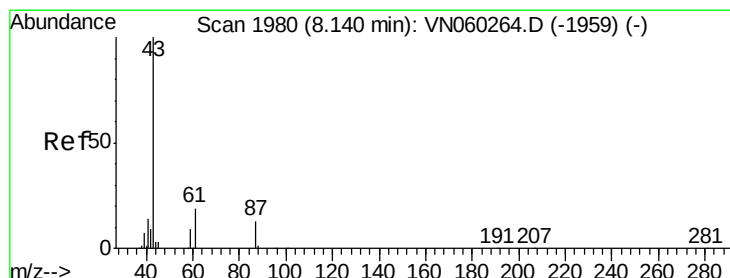
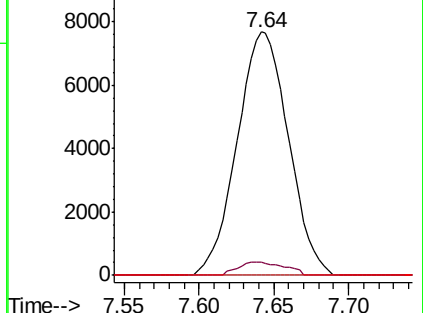
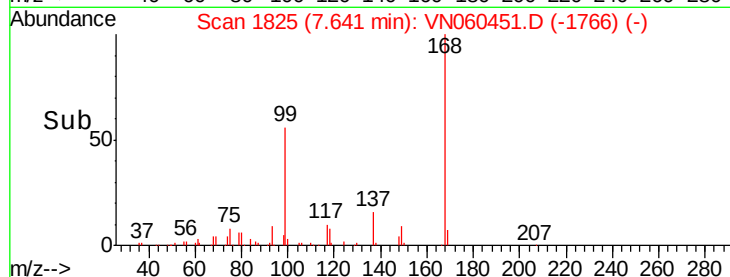
121 0.0 24.5 36.7#



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: 11.096 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060451.D

Acq: 11 Mar 2020 15:34

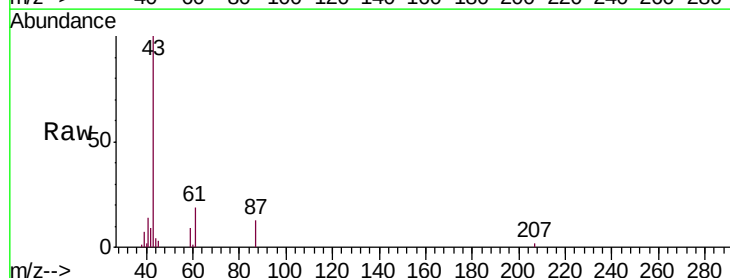
Tgt Ion: 43 Resp: 54777

Ion Ratio Lower Upper

43 100

61 19.3 20.9 31.3#

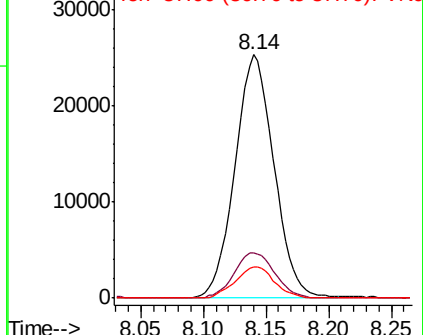
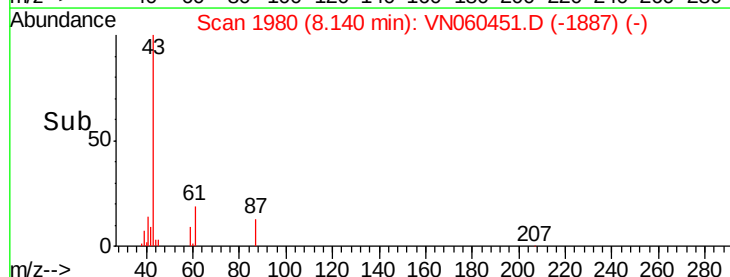
87 12.7 10.6 16.0

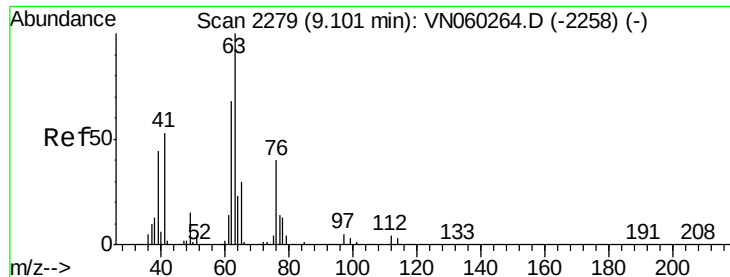


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

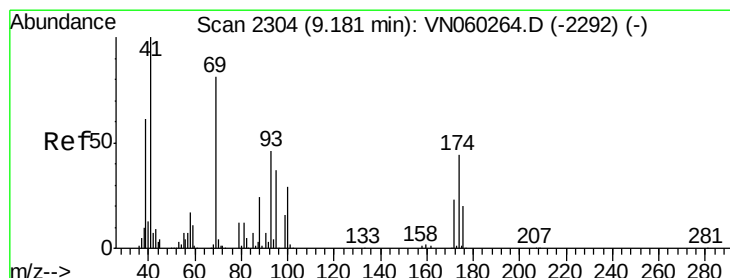
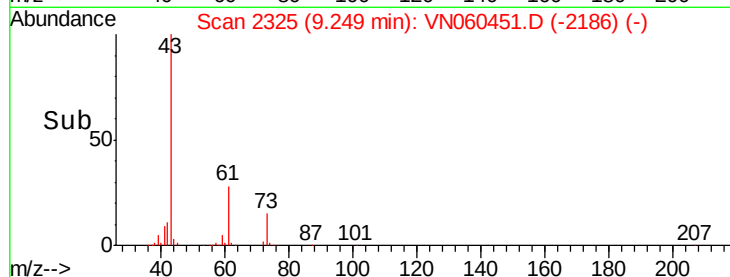
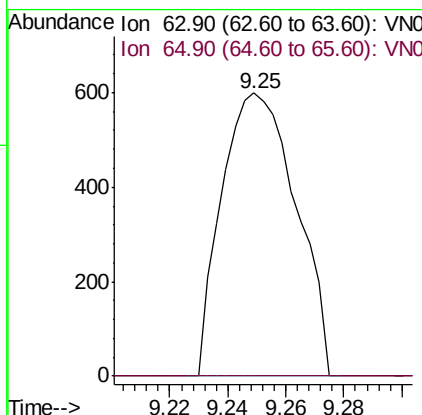
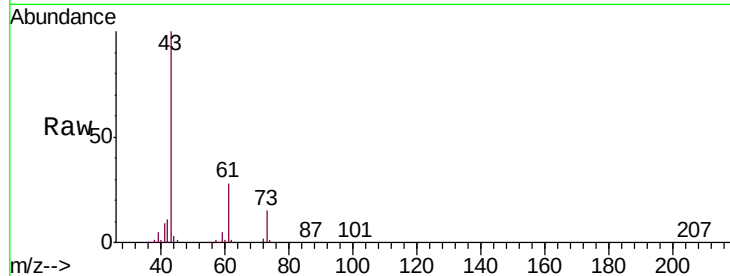




#45
 1,2-Dichloropropane
 Concen: 0.469 ug/l
 RT: 9.25 min Scan# 2325
 Delta R.T. 0.15 min
 Lab File: VN060451.D
 Acq: 11 Mar 2020 15:34

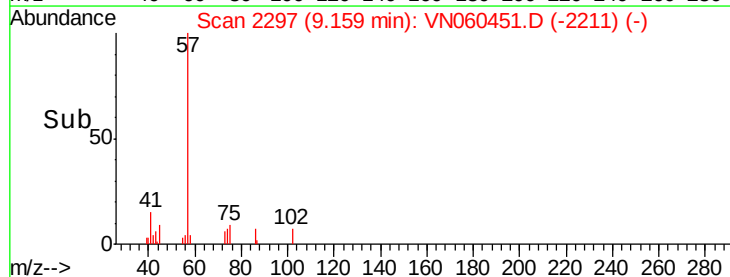
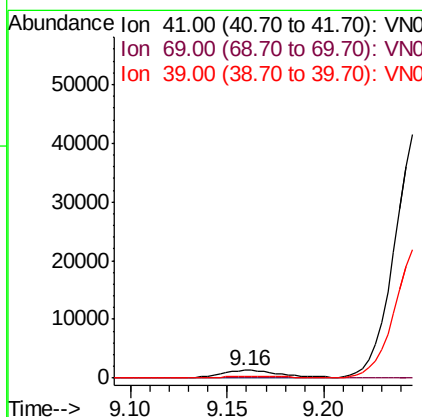
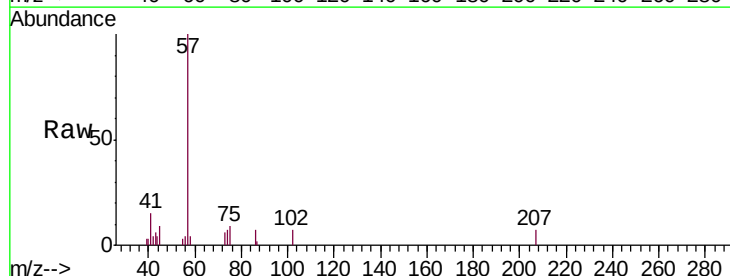
Instrument :
 MSVOA_N
 ClientSampled :
 SP-2

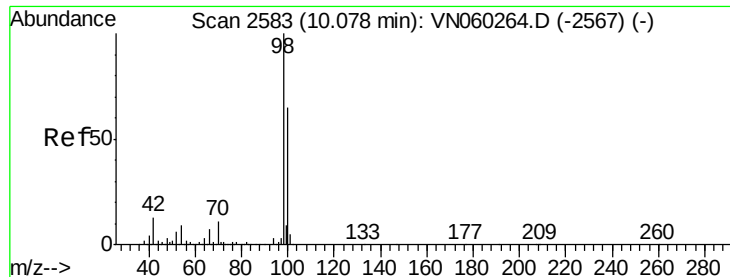
Tgt Ion: 63 Resp: 1062
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



#48
 Methyl methacrylate
 Concen: 1.285 ug/l
 RT: 9.16 min Scan# 2297
 Delta R.T. -0.02 min
 Lab File: VN060451.D
 Acq: 11 Mar 2020 15:34

Tgt Ion: 41 Resp: 2892
 Ion Ratio Lower Upper
 41 100
 69 0.0 66.7 100.1#
 39 0.0 50.1 75.1#





#50

Toluene-d8

Concen: 53.107 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060451.D

Acq: 11 Mar 2020 15:34

Instrument :

MSVOA_N

ClientSampleId :

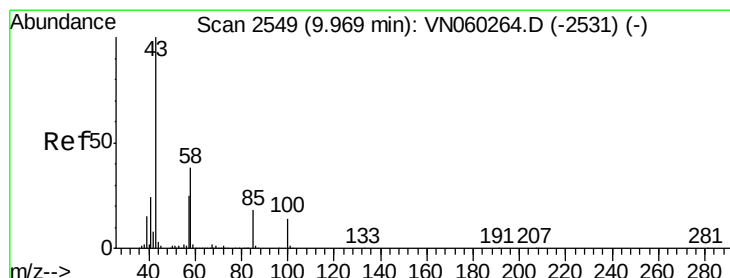
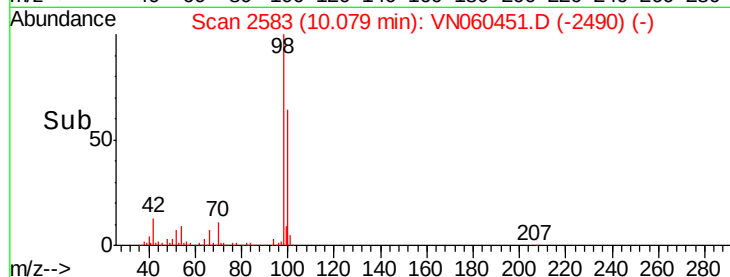
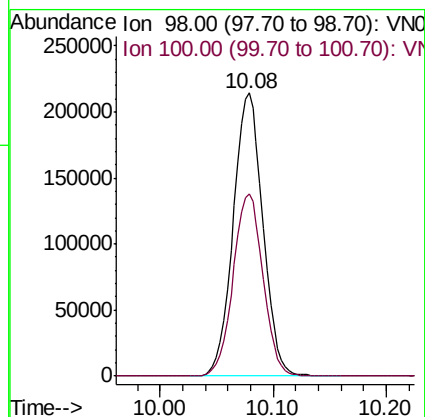
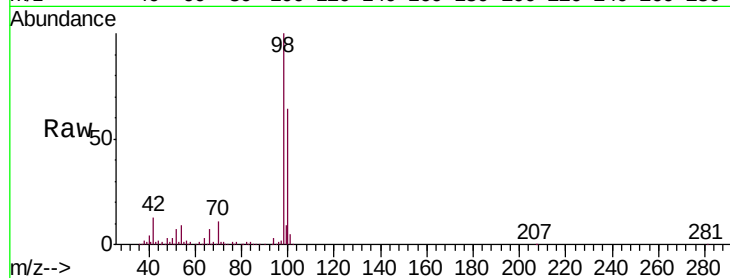
SP-2

Tgt Ion: 98 Resp: 389838

Ion Ratio Lower Upper

98 100

100 64.9 52.2 78.2



#51

4-Methyl-2-Pentanone

Concen: 1.477 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060451.D

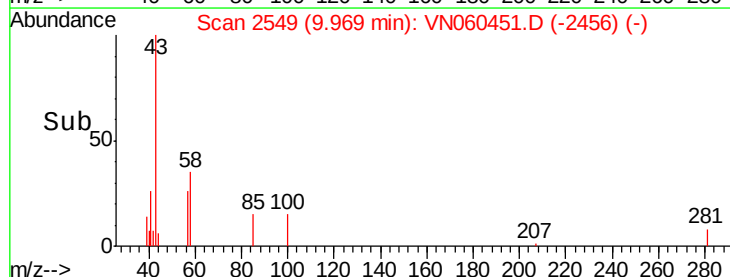
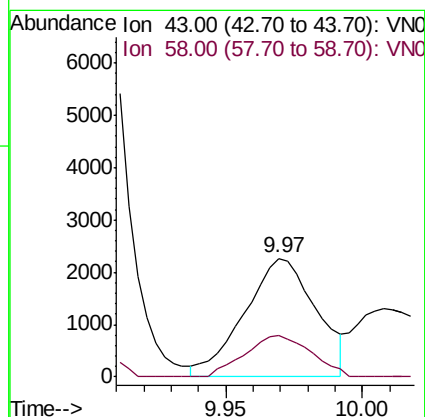
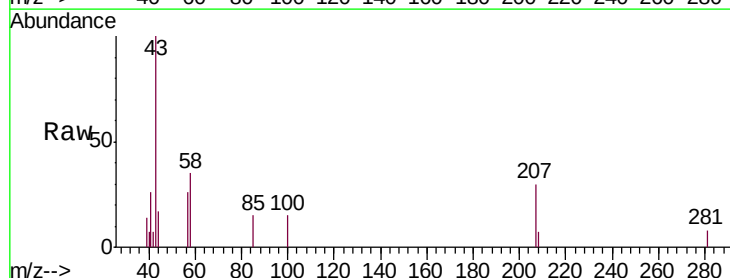
Acq: 11 Mar 2020 15:34

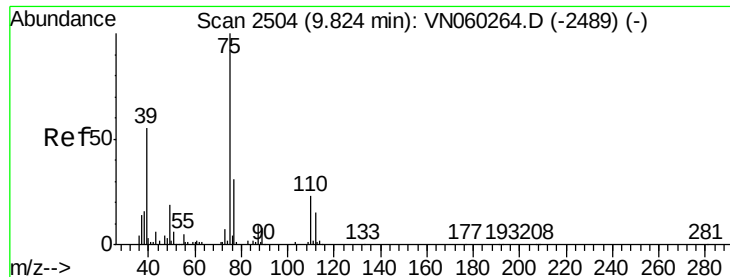
Tgt Ion: 43 Resp: 4133

Ion Ratio Lower Upper

43 100

58 32.5 30.9 46.3





#54

cis-1,3-Dichloropropene

Concen: 6.145 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060451.D

Acq: 11 Mar 2020 15:34

Instrument :

MSVOA_N

ClientSampleId :

SP-2

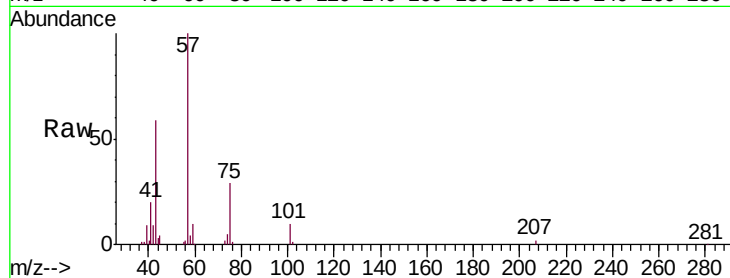
Tgt Ion: 75 Resp: 23334

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

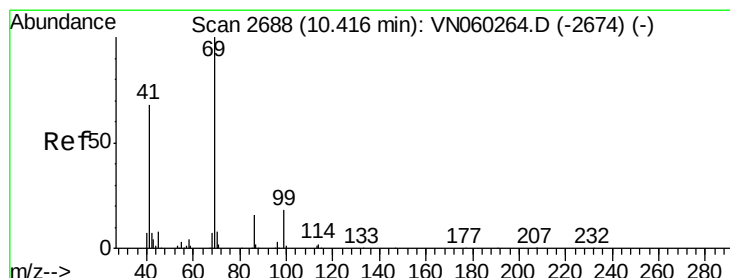
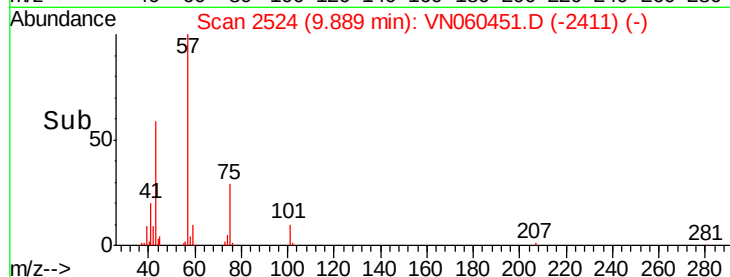
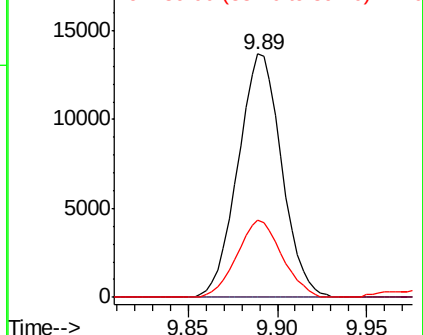
39 31.5 43.8 65.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 0.223 ug/l

RT: 10.54 min Scan# 2725

Delta R.T. 0.12 min

Lab File: VN060451.D

Acq: 11 Mar 2020 15:34

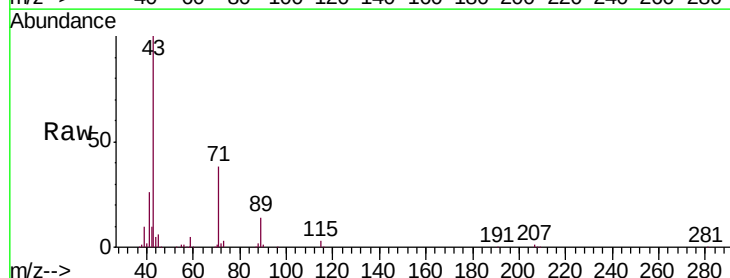
Tgt Ion: 69 Resp: 702

Ion Ratio Lower Upper

69 100

41 6878.1 54.1 81.1#

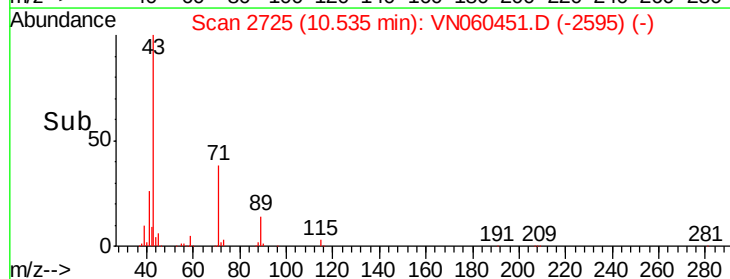
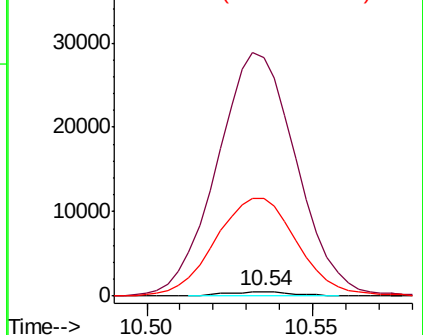
39 2848.0 32.5 48.7#

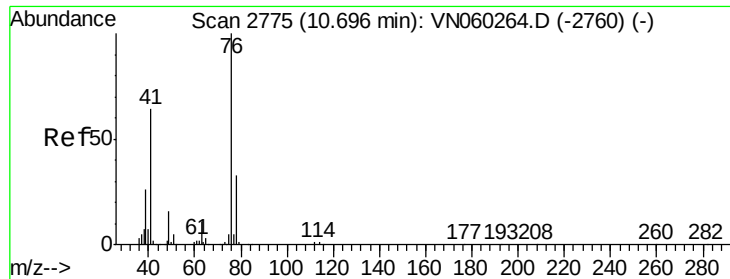


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.003 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.06 min

Lab File: VN060451.D

Acq: 11 Mar 2020 15:34

Instrument :

MSVOA_N

ClientSampled :

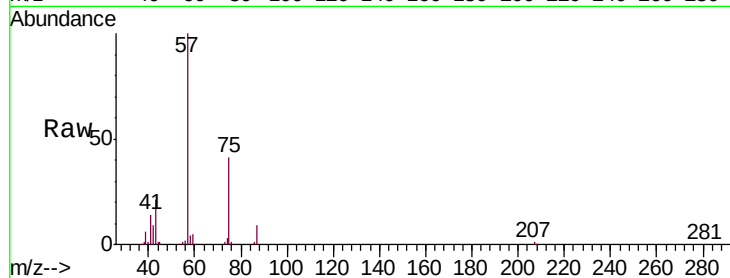
SP-2

Tgt Ion: 76 Resp: 3581

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.76

2500

2000

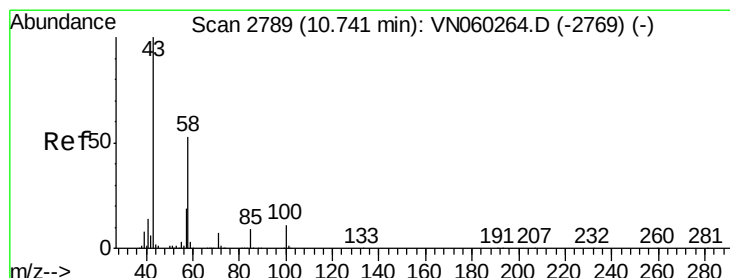
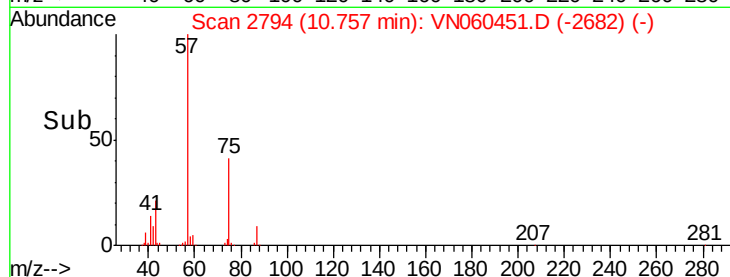
1500

1000

500

0

Time-->



#59

2-Hexanone

Concen: 26.746 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060451.D

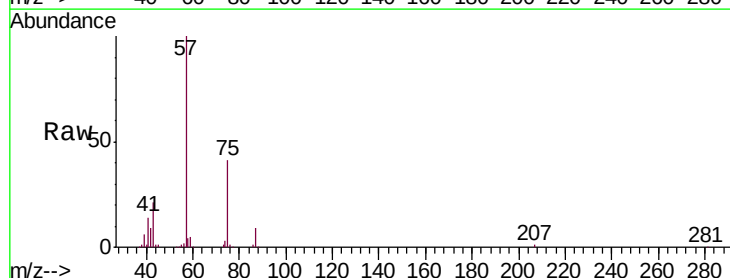
Acq: 11 Mar 2020 15:34

Tgt Ion: 43 Resp: 54964

Ion Ratio Lower Upper

43 100

58 18.7 26.5 79.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

40000

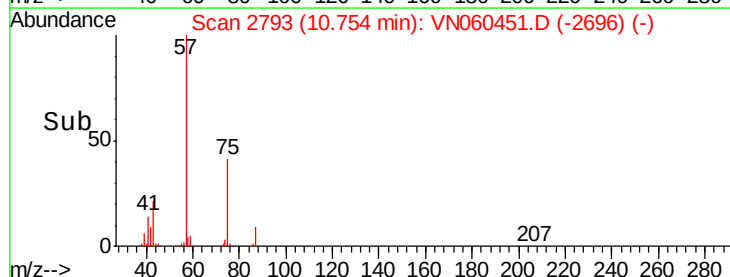
30000

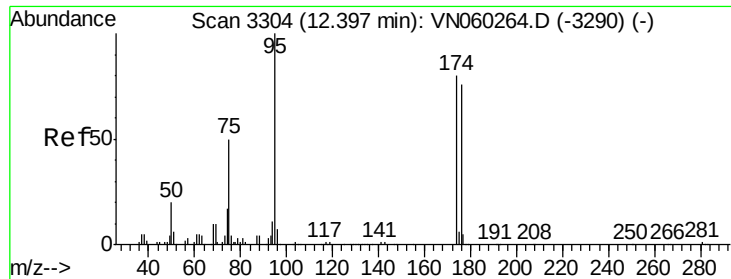
20000

10000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 53.065 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060451.D

Acq: 11 Mar 2020 15:34

Instrument :

MSVOA_N

ClientSampleId :

SP-2

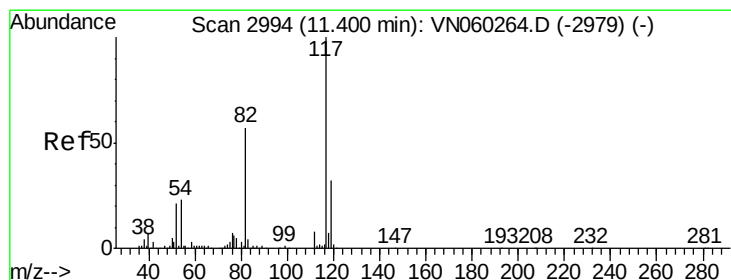
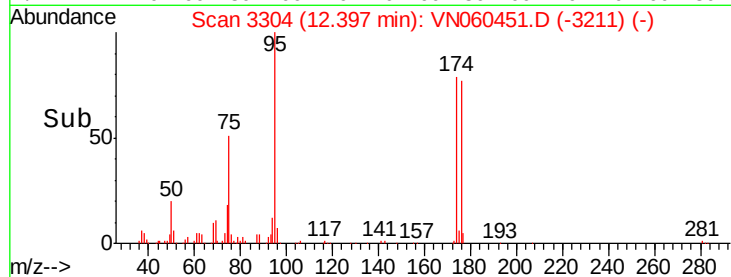
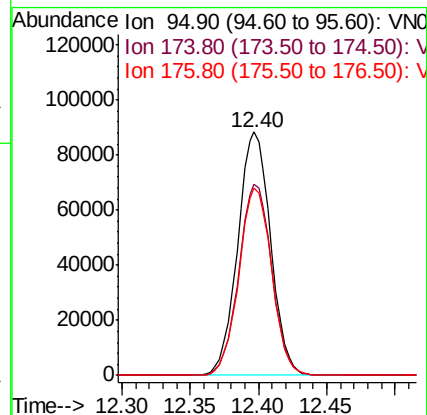
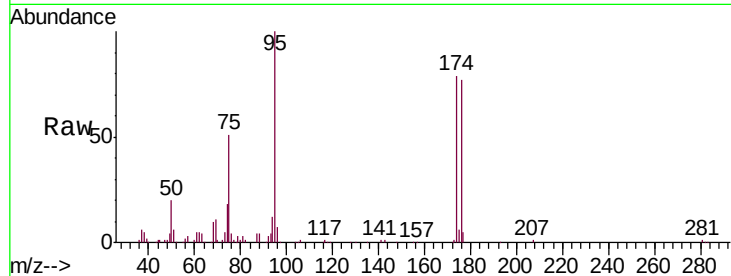
Tgt Ion: 95 Resp: 147661

Ion Ratio Lower Upper

95 100

174 78.7 0.0 159.2

176 76.8 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: VN060451.D

Acq: 11 Mar 2020 15:34

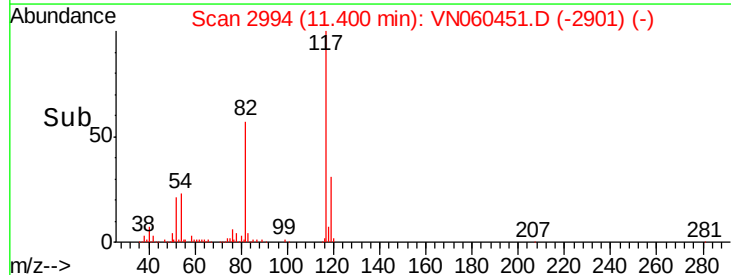
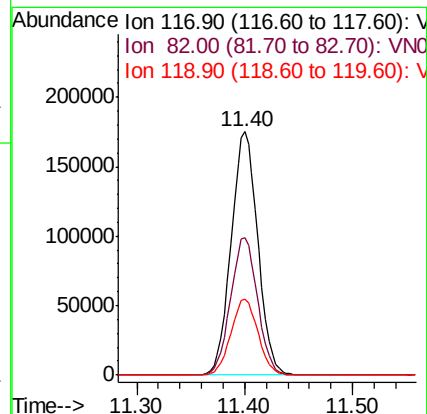
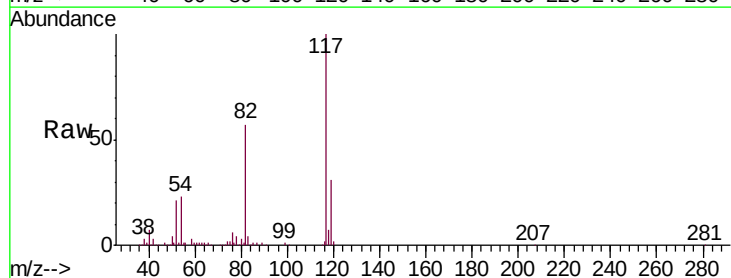
Tgt Ion: 117 Resp: 301245

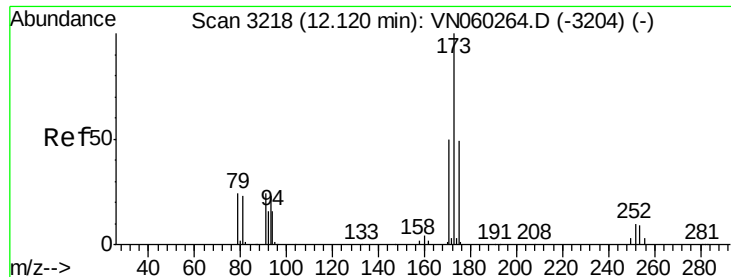
Ion Ratio Lower Upper

117 100

82 56.6 45.8 68.6

119 31.3 25.8 38.8





#71

Bromoform

Concen: 0.478 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN060451.D

Acq: 11 Mar 2020 15:34

Instrument :

MSVOA_N

ClientSampleId :

SP-2

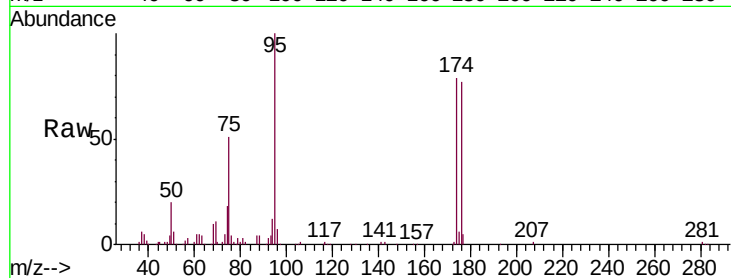
Tgt Ion:173 Resp: 775

Ion Ratio Lower Upper

173 100

175 957.0 24.1 72.2#

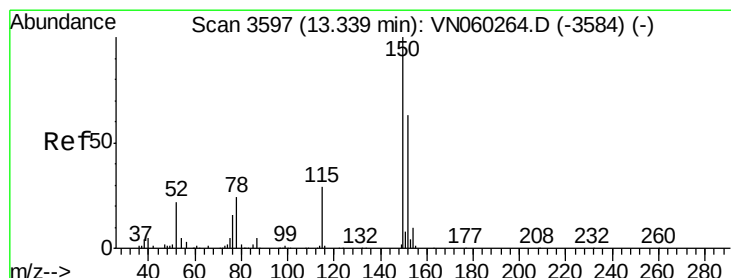
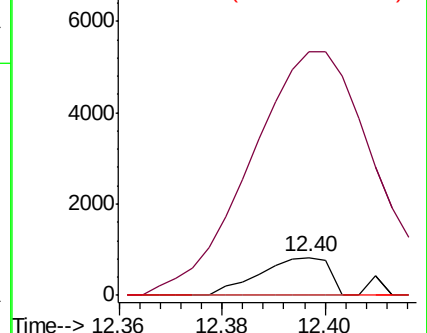
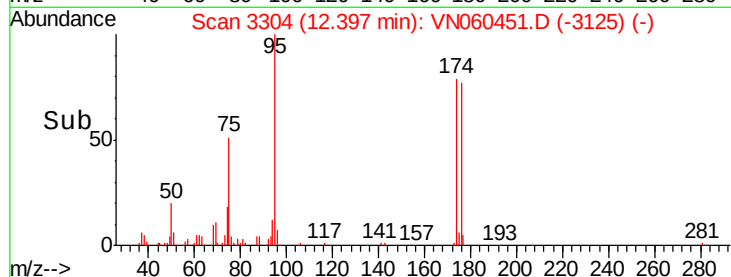
254 0.0 0.0 0.0



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: VN060451.D

Acq: 11 Mar 2020 15:34

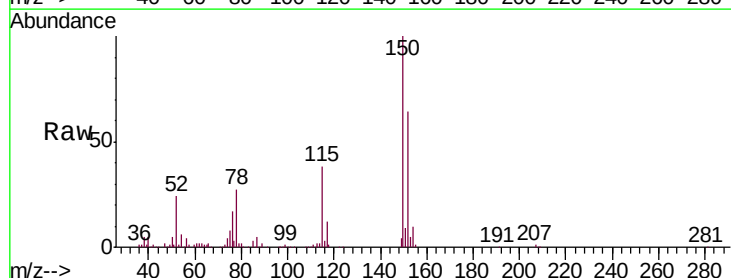
Tgt Ion:152 Resp: 141402

Ion Ratio Lower Upper

152 100

115 59.5 30.0 90.0

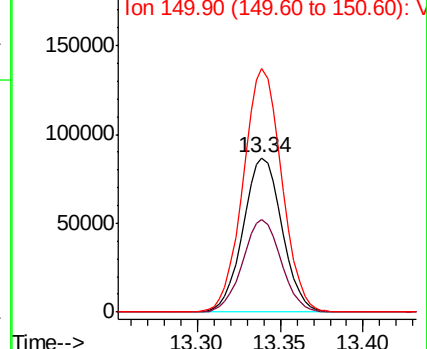
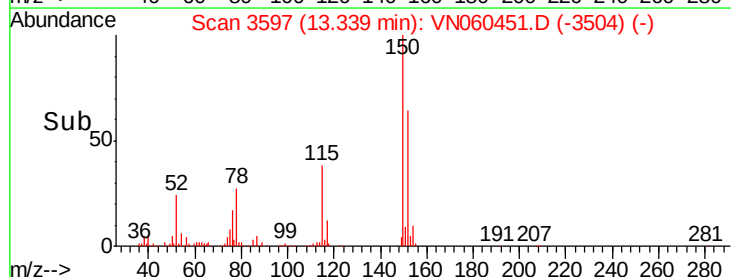
150 156.6 0.0 349.6

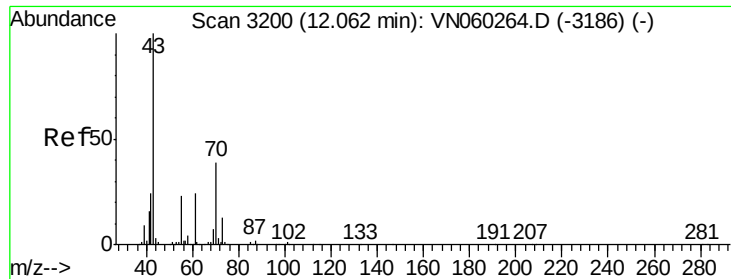


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

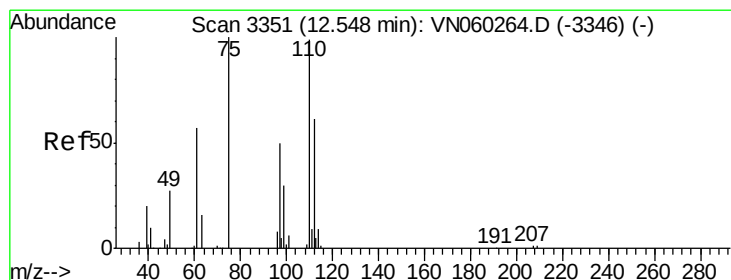
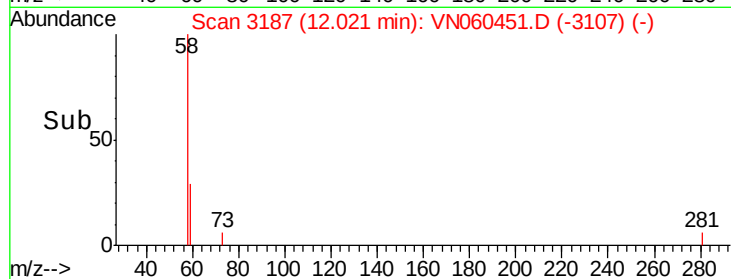
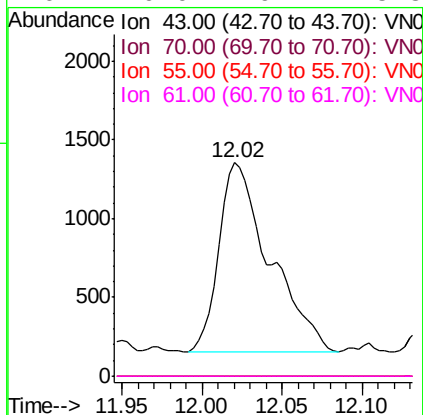
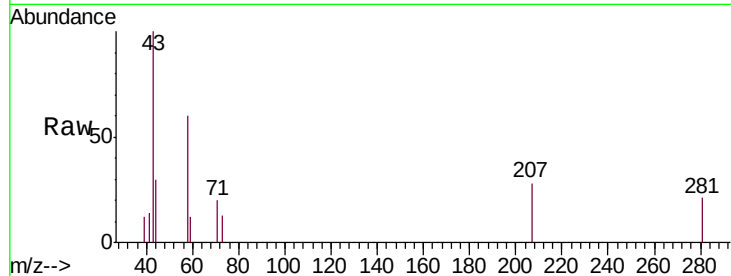




#74
N-ethyl acetate
Concen: 0.571 ug/l
RT: 12.02 min Scan# 3187
Delta R.T. -0.04 min
Lab File: VN060451.D
Acq: 11 Mar 2020 15:34

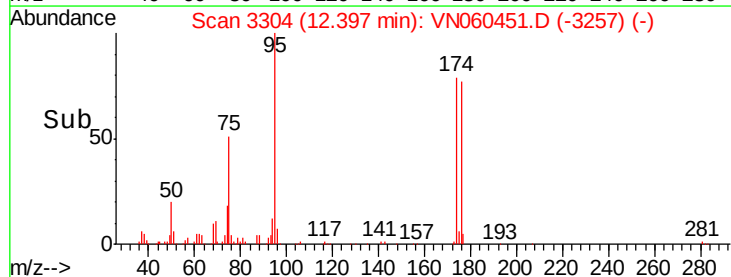
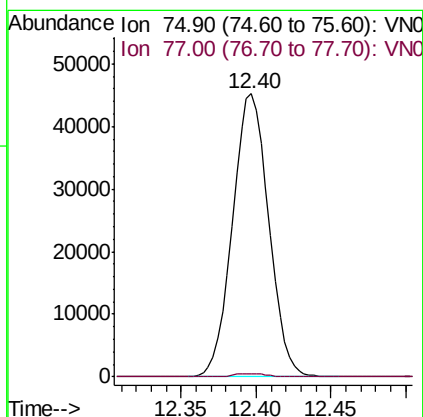
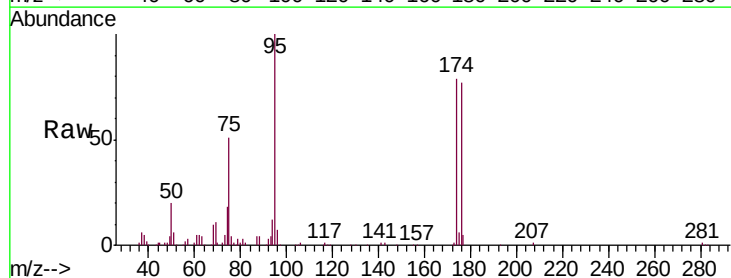
Instrument :
MSVOA_N
ClientSampled :
SP-2

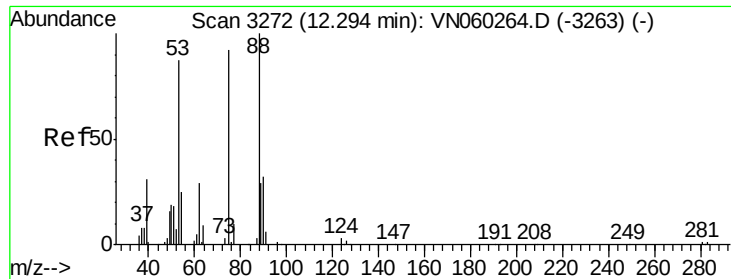
Tgt Ion:	43	Resp:	2615
Ion	Ratio	Lower	Upper
43	100		
70	0.0	32.2	48.2#
55	0.0	18.2	27.4#
61	0.0	19.2	28.8#



#76
1,2,3-Trichloropropane
Concen: 24.601 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.15 min
Lab File: VN060451.D
Acq: 11 Mar 2020 15:34

Tgt Ion:	75	Resp:	76320
Ion	Ratio	Lower	Upper
75	100		
77	1.1	0.0	0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 67.909 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060451.D

Acq: 11 Mar 2020 15:34

Instrument :

MSVOA_N

ClientSampleId :

SP-2

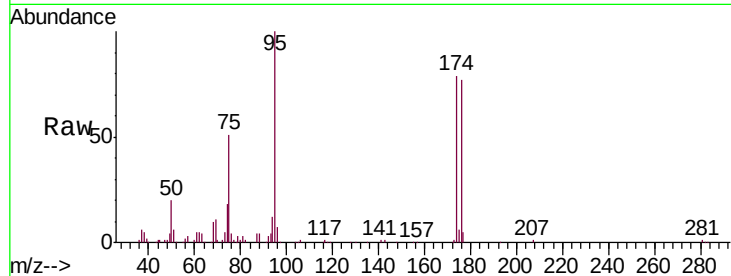
Tgt Ion: 75 Resp: 76320

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

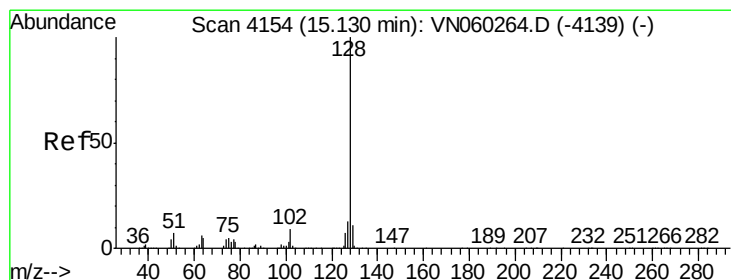
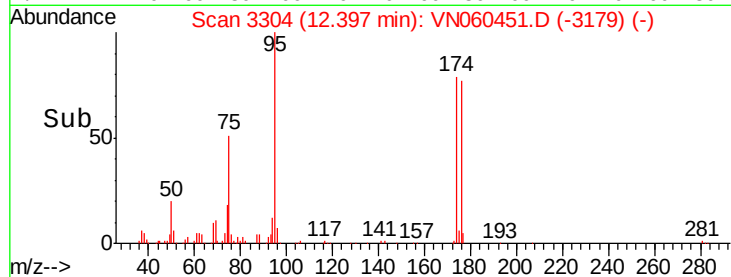
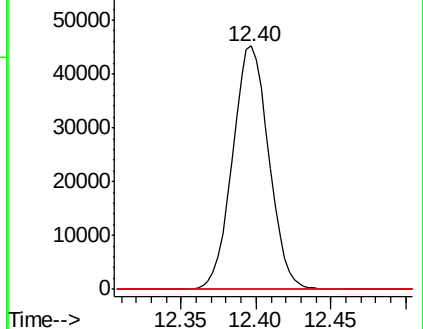
89 0.0 57.1 85.7#



Abundance Ion 74.90 (74.60 to 75.60): VN060451.D (-3179) (-)

Ion 53.00 (52.70 to 53.70): VN060451.D (-3179) (-)

Ion 88.90 (88.60 to 89.60): VN060451.D (-3179) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN060451.D

Acq: 11 Mar 2020 15:34

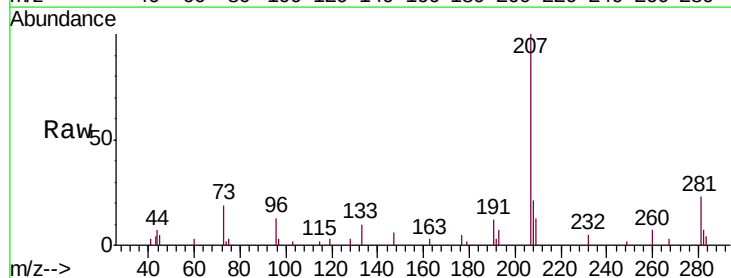
Tgt Ion: 128 Resp: 225

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): VN060451.D (-4060) (-)

Ion 127.00 (126.70 to 127.70): VN060451.D (-4060) (-)

Ion 129.00 (128.70 to 129.70): VN060451.D (-4060) (-)

