

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031920\
 Data File : VN060637.D
 Acq On : 19 Mar 2020 15:23
 Operator : JC/MD
 Sample : L1964-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 20 01:49:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	197306	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	327981	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	307785	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	141403	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	128854	47.57	ug/l	0.00
Spiked Amount						
			Recovery	=	95.14%	
35) Dibromofluoromethane	7.56	113	97576	49.20	ug/l	0.00
Spiked Amount						
			Recovery	=	98.40%	
50) Toluene-d8	10.08	98	403215	49.78	ug/l	0.00
Spiked Amount						
			Recovery	=	99.56%	
62) 4-Bromofluorobenzene	12.40	95	151760	51.12	ug/l	0.00
Spiked Amount						
			Recovery	=	102.24%	

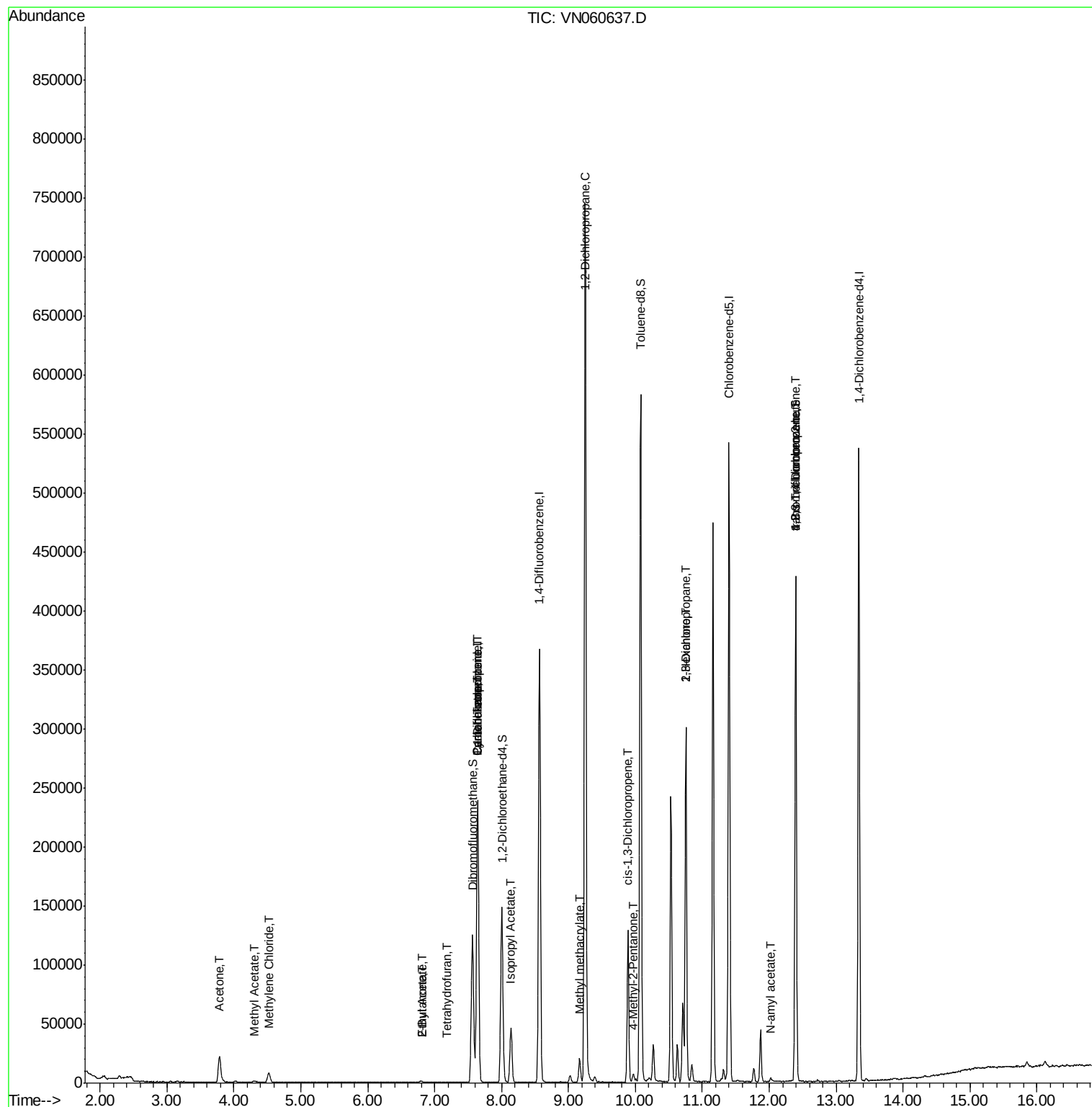
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	38913	40.559	ug/l	99
18) Methyl Acetate	4.30	43	1991	0.737	ug/l #	77
20) Methylene Chloride	4.52	84	6153	2.607	ug/l	97
25) 2-Butanone	6.82	43	1581	1.018	ug/l #	90
29) Tetrahydrofuran	7.19	42	397	0.361	ug/l #	35
31) Cyclohexane	7.64	56	4226	0.969	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15154	4.772	ug/l #	50
37) Ethyl Acetate	6.82	43	1581	0.461	ug/l #	70
38) Carbon Tetrachloride	7.64	117	18823	6.613	ug/l #	16
43) Isopropyl Acetate	8.14	43	55905	9.878	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	892	0.353	ug/l #	43
48) Methyl methacrylate	9.17	41	3302	1.310	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	5218	1.620	ug/l	94
54) cis-1,3-Dichloropropene	9.89	75	22920	5.723	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	3015	0.780	ug/l #	42
59) 2-Hexanone	10.75	43	44284	19.089	ug/l #	51
74) N-amyl acetate	12.02	43	2707	0.552	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	75283	24.673	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	75283	63.369	ug/l #	13

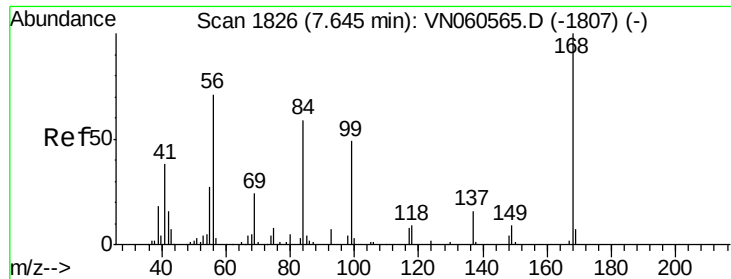
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060637.D

Acq: 19 Mar 2020 15:23

Instrument :

MSVOA_N

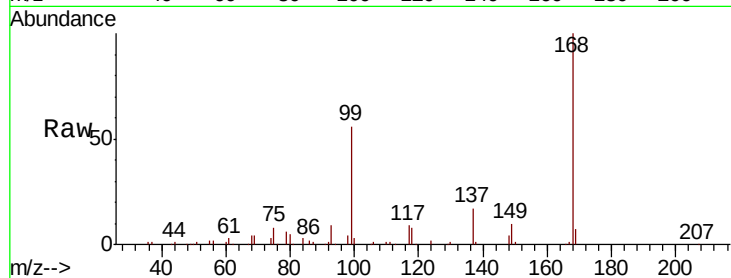
ClientSampleId :

Tot Ion:168 Resp: 197306

Ion Ratio Lower Upper

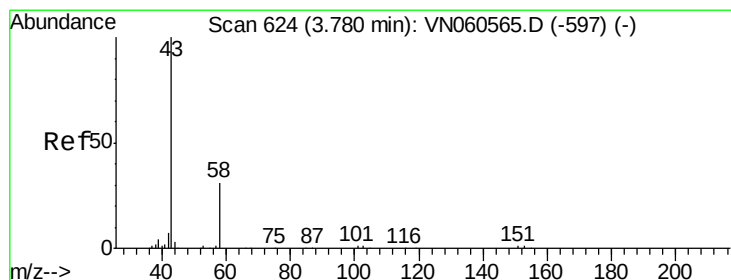
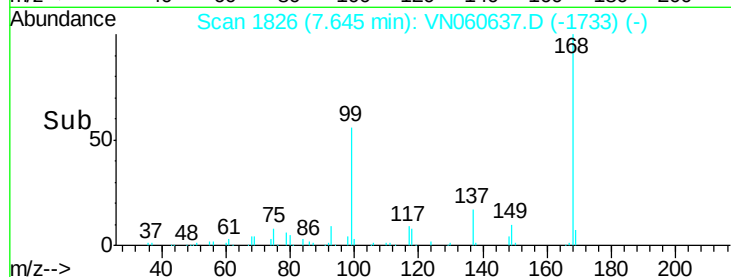
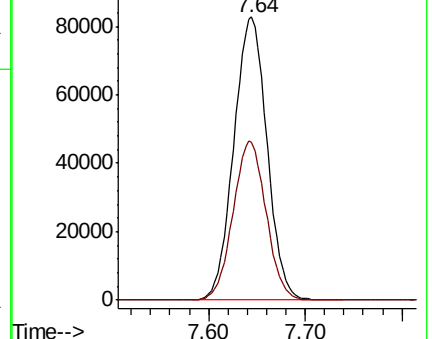
168 100

99 55.7 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 40.559 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060637.D

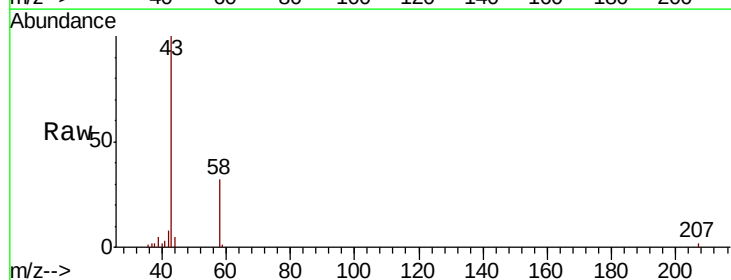
Acq: 19 Mar 2020 15:23

Tgt Ion: 43 Resp: 38913

Ion Ratio Lower Upper

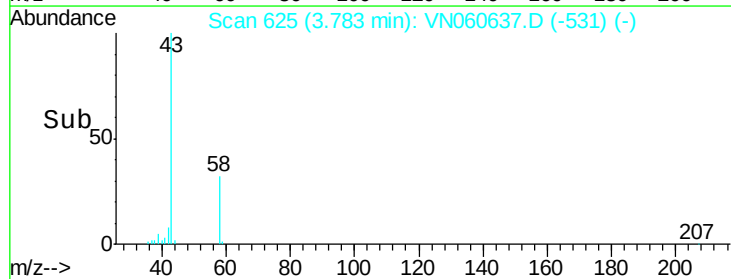
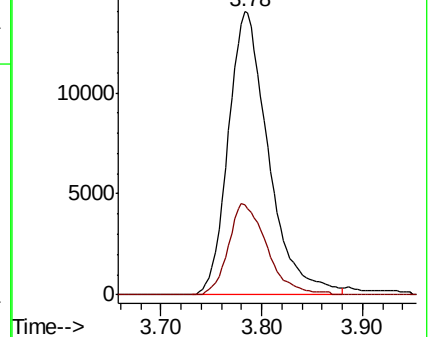
43 100

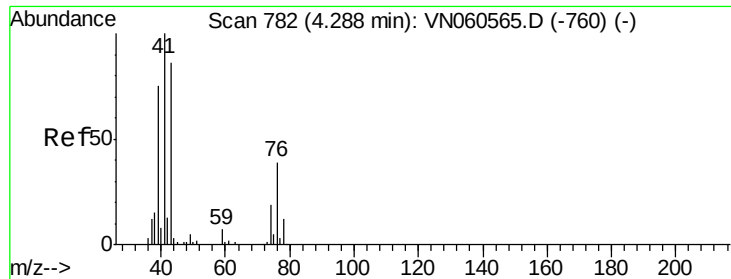
58 31.7 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

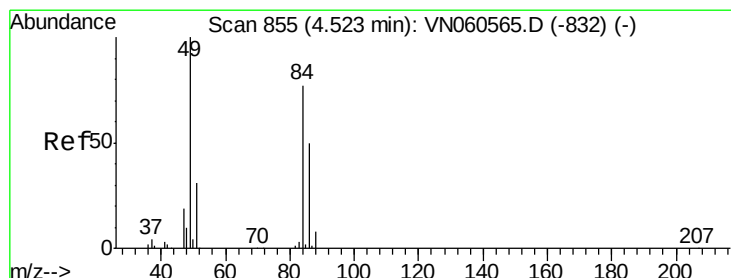
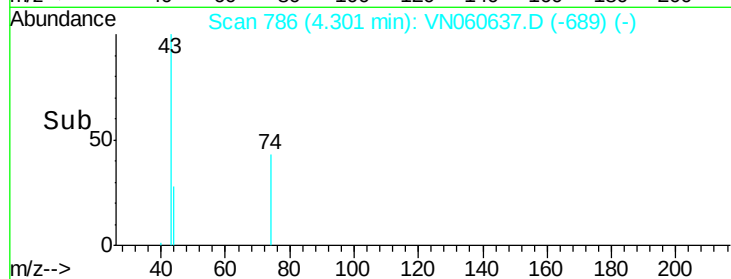
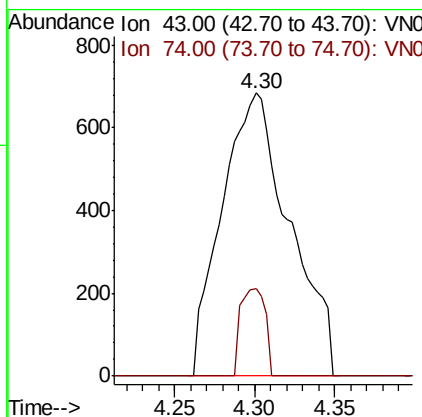
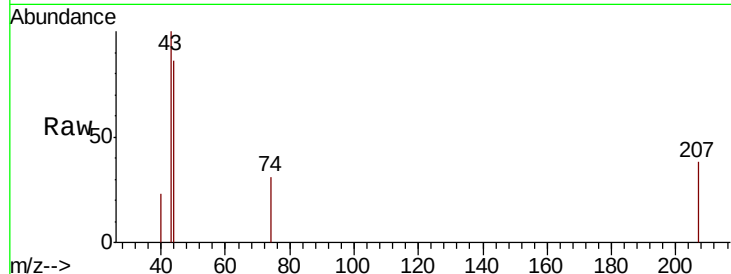




#18
Methyl Acetate
Concen: 0.737 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.01 min
Lab File: VN060637.D
Acq: 19 Mar 2020 15:23

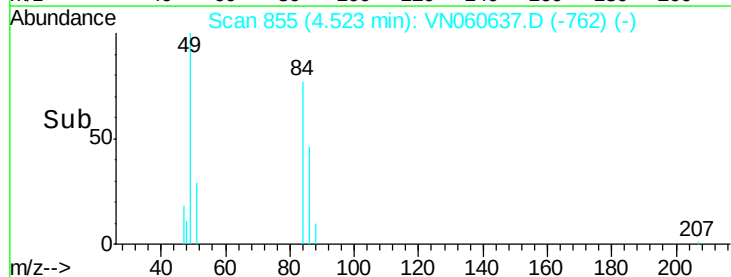
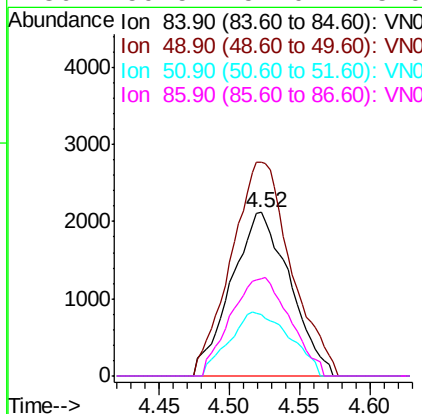
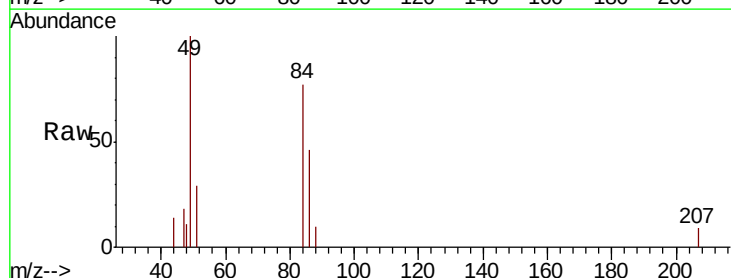
Instrument :
MSVOA_N
ClientSampleId :

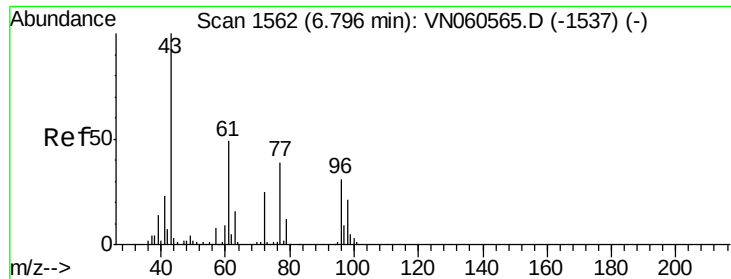
Tot Ion: 43 Resp: 1991
Ion Ratio Lower Upper
43 100
74 10.9 17.5 26.3#



#20
Methylene Chloride
Concen: 2.607 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060637.D
Acq: 19 Mar 2020 15:23

Tgt Ion: 84 Resp: 6153
Ion Ratio Lower Upper
84 100
49 130.4 103.3 154.9
51 37.3 31.6 47.4
86 59.5 52.0 78.0





#25

2-Butanone

Concen: 1.018 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.02 min

Lab File: VN060637.D

Acq: 19 Mar 2020 15:23

Instrument :

MSVOA_N

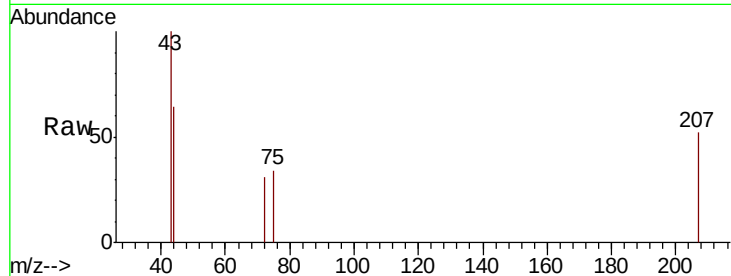
ClientSampled :

Tot Ion: 43 Resp: 1581

Ion Ratio Lower Upper

43 100

72 30.7 20.4 30.6#



Abundance Ion 43.00 (42.70 to 43.70): VN060565.D (-1537) (-)

Ion 72.00 (71.70 to 72.70): VN060565.D (-1537) (-)

6.82

500

400

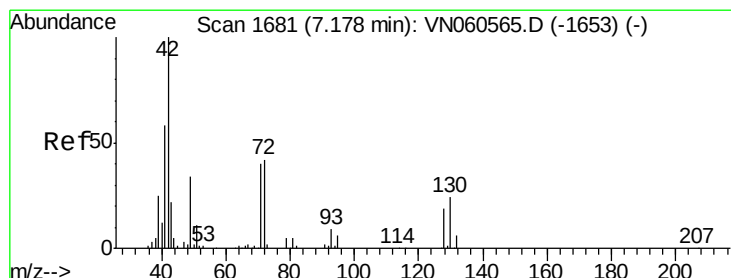
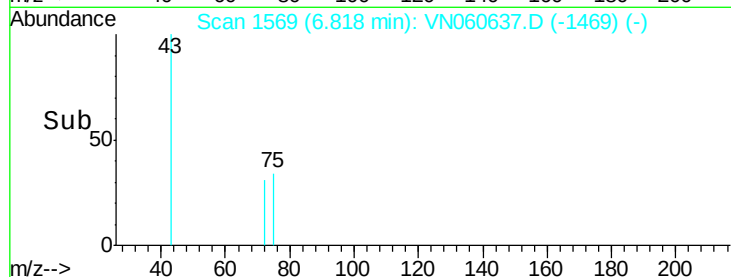
300

200

100

0

Time--> 6.75 6.80 6.85



#29

Tetrahydrofuran

Concen: 0.361 ug/l

RT: 7.19 min Scan# 1685

Delta R.T. 0.01 min

Lab File: VN060637.D

Acq: 19 Mar 2020 15:23

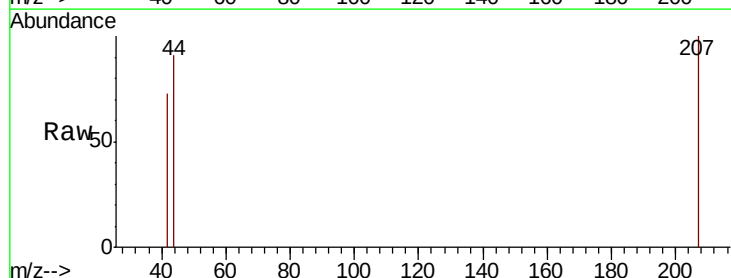
Tgt Ion: 42 Resp: 397

Ion Ratio Lower Upper

42 100

72 0.0 33.2 49.8#

71 0.0 31.1 46.7#



Abundance Ion 42.00 (41.70 to 42.70): VN060565.D (-1653) (-)

Ion 72.00 (71.70 to 72.70): VN060565.D (-1653) (-)

Ion 71.00 (70.70 to 71.70): VN060565.D (-1653) (-)

7.19

300

250

200

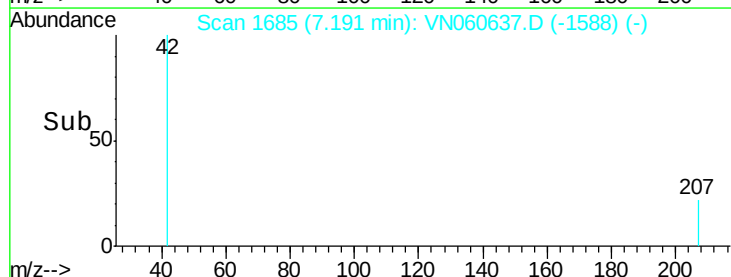
150

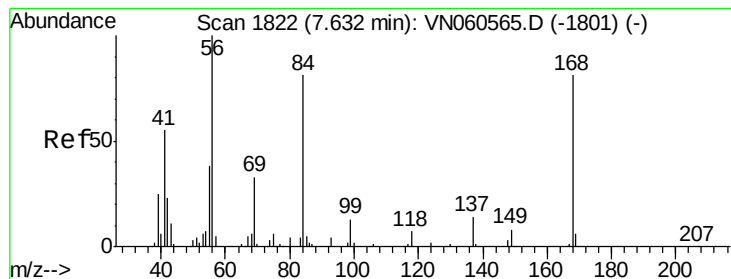
100

50

0

Time--> 7.16 7.18 7.20 7.22





#31

Cyclohexane

Concen: 0.969 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.01 min

Lab File: VN060637.D

Acq: 19 Mar 2020 15:23

Instrument :
MSVOA_N
ClientSampled :

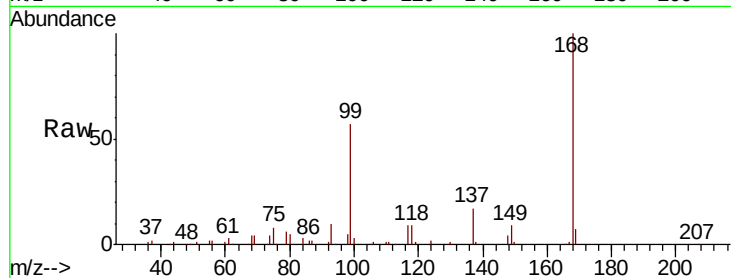
Tot Ion: 56 Resp: 4226

Ion Ratio Lower Upper

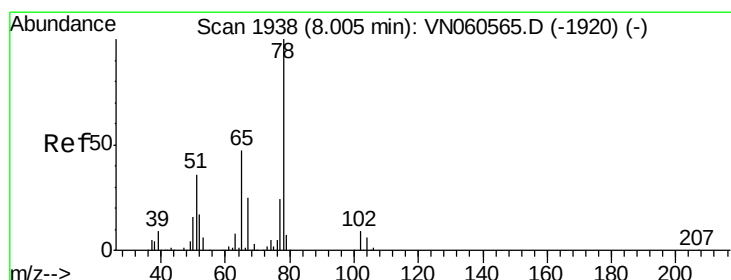
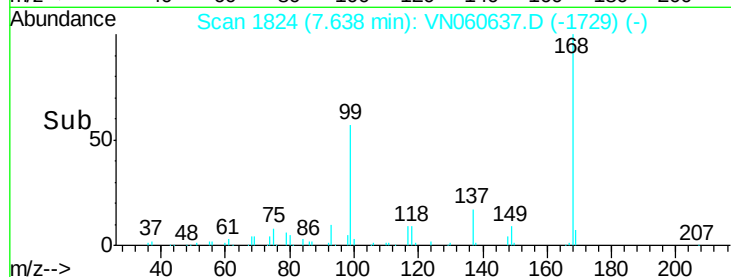
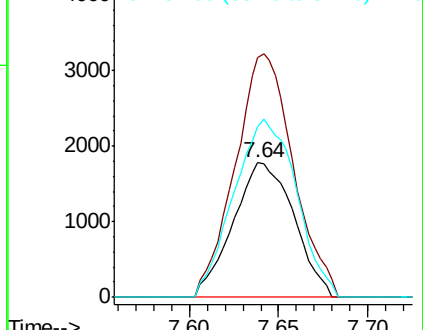
56 100

69 178.9 26.6 40.0#

84 127.1 64.3 96.5#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 47.573 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060637.D

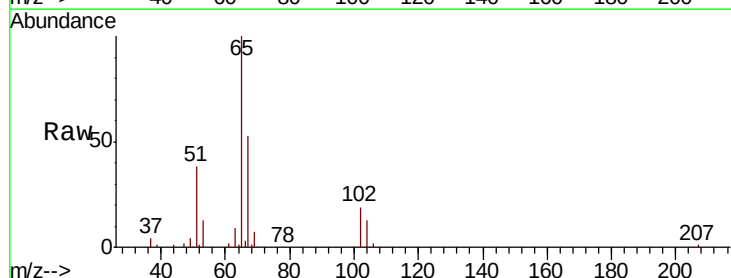
Acq: 19 Mar 2020 15:23

Tgt Ion: 65 Resp: 128854

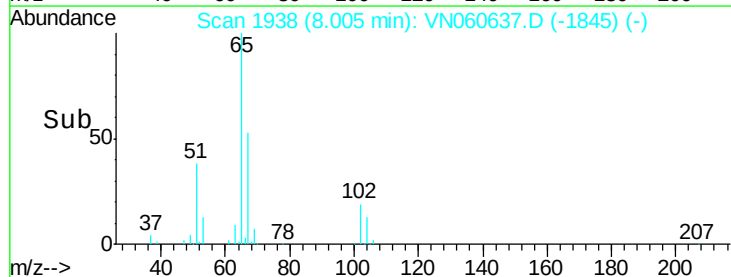
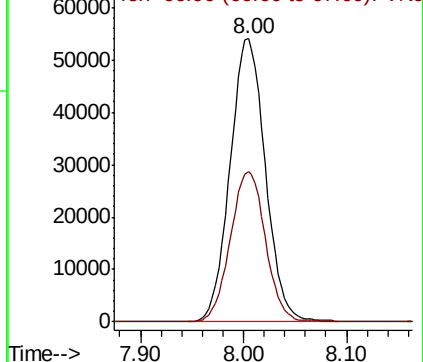
Ion Ratio Lower Upper

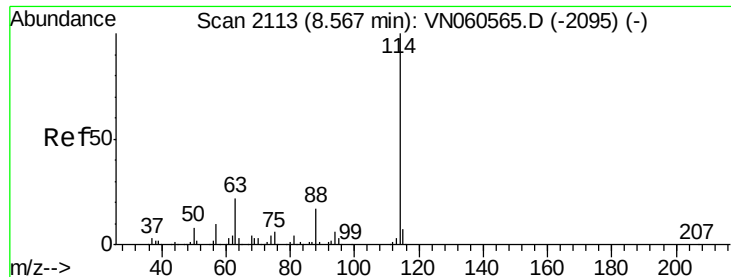
65 100

67 52.9 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

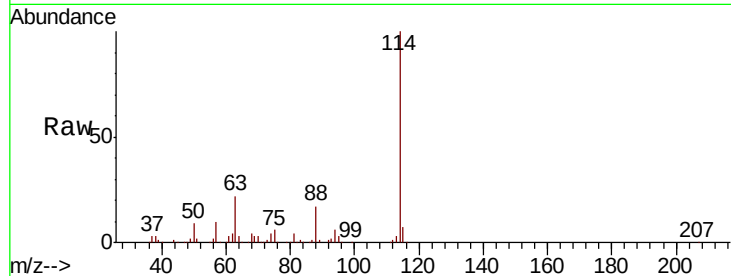




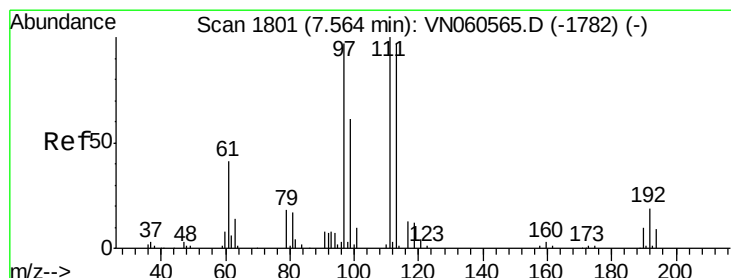
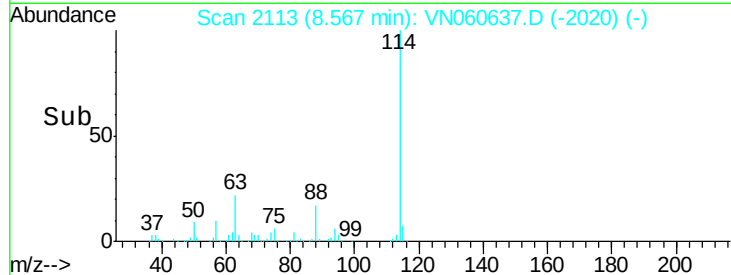
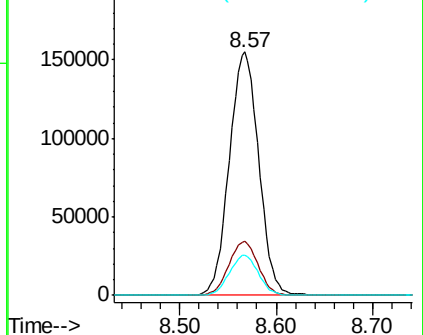
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060637.D
 Acq: 19 Mar 2020 15:23

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	43.8
88	16.5	0.0	33.0

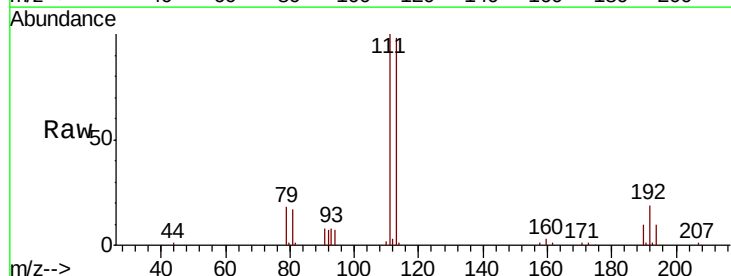


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

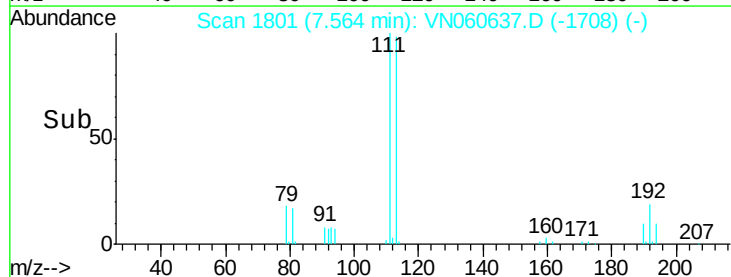
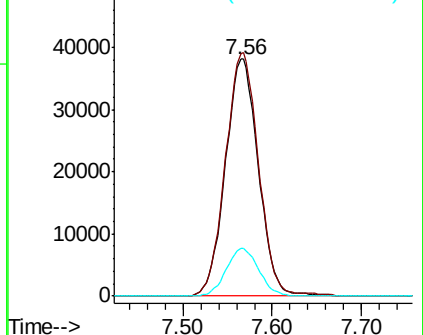


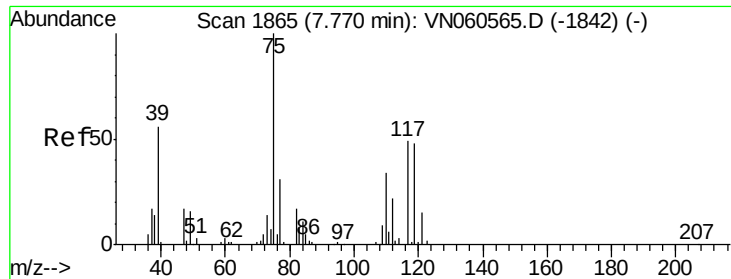
#35
 Dibromofluoromethane
 Concen: 49.201 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN060637.D
 Acq: 19 Mar 2020 15:23

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.9	124.3
192	19.7	15.8	23.8



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: 4.772 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060637.D

Acq: 19 Mar 2020 15:23

Instrument :

MSVOA_N

ClientSampleId :

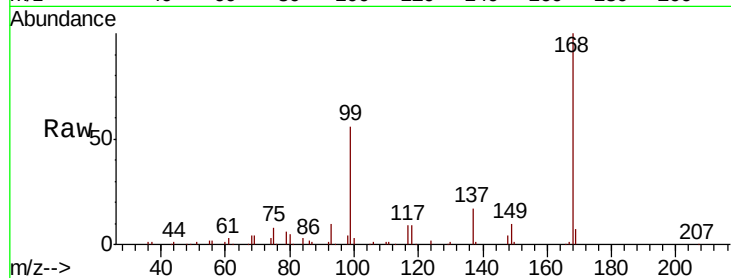
Tot Ion: 75 Resp: 15154

Ion Ratio Lower Upper

75 100

110 7.9 16.9 50.6#

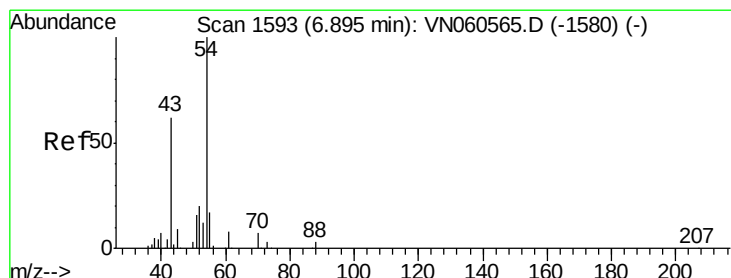
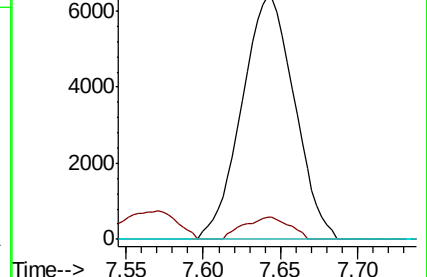
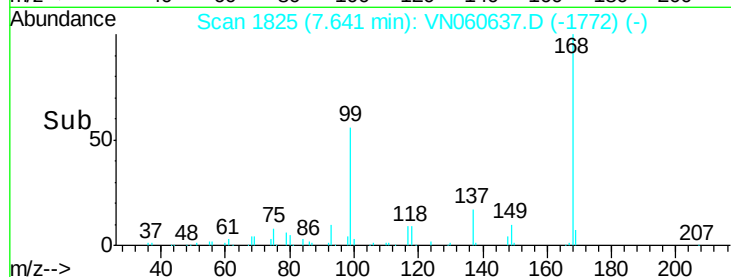
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VN060637.D (-1772) (-)

Ion 109.90 (109.60 to 110.60): VN060637.D (-1772) (-)

Ion 76.90 (76.60 to 77.60): VN060637.D (-1772) (-)



#37

Ethyl Acetate

Concen: 0.461 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. -0.08 min

Lab File: VN060637.D

Acq: 19 Mar 2020 15:23

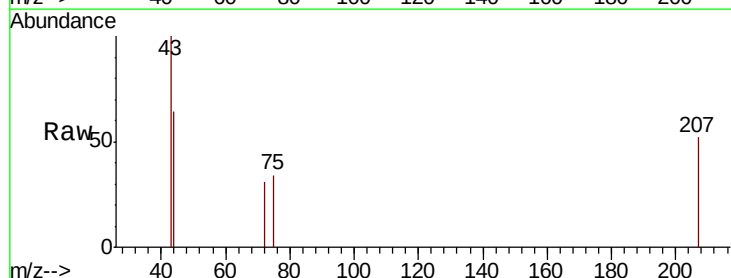
Tgt Ion: 43 Resp: 1581

Ion Ratio Lower Upper

43 100

61 0.0 10.6 15.8#

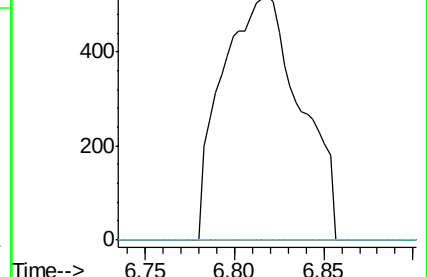
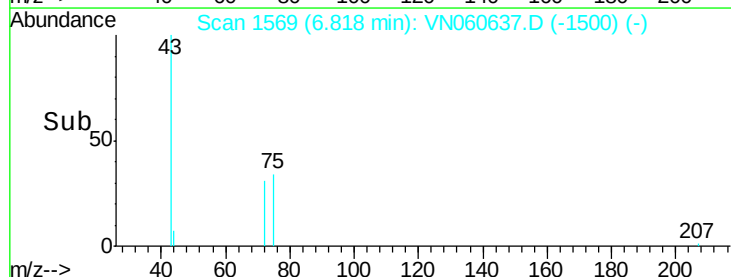
70 0.0 7.9 11.9#

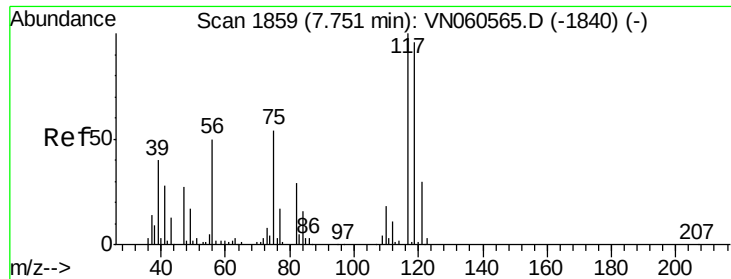


Abundance Ion 43.00 (42.70 to 43.70): VN060637.D (-1500) (-)

Ion 60.90 (60.60 to 61.60): VN060637.D (-1500) (-)

Ion 70.00 (69.70 to 70.70): VN060637.D (-1500) (-)





#38

Carbon Tetrachloride

Concen: 6.613 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060637.D

Acq: 19 Mar 2020 15:23

Instrument :

MSVOA_N

ClientSampled :

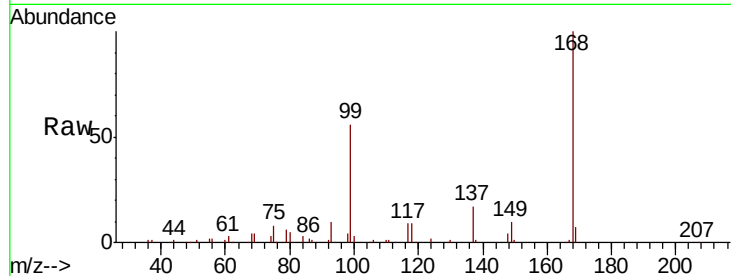
Tot Ion:117 Resp: 18823

Ion Ratio Lower Upper

117 100

119 5.0 76.2 114.2#

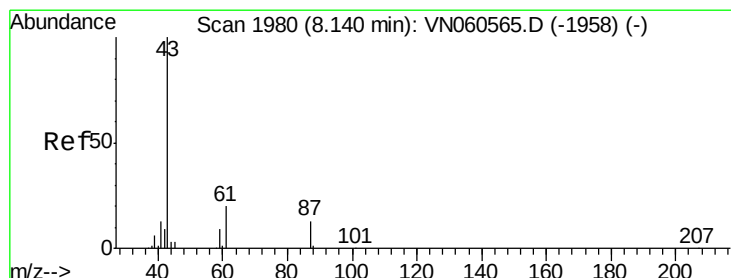
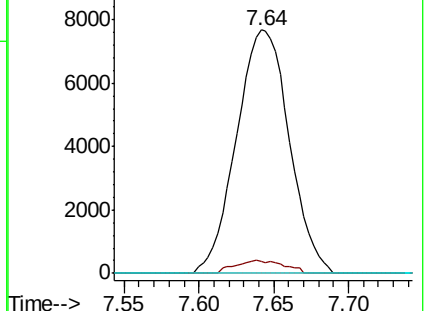
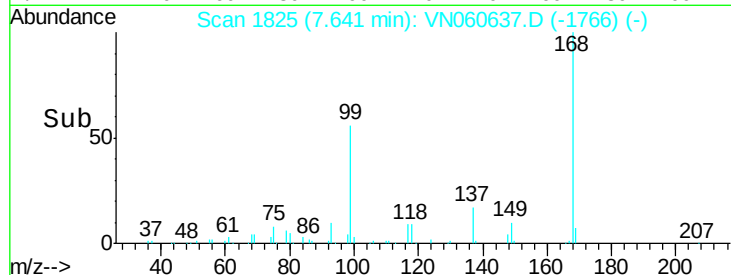
121 0.0 23.7 35.5#



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: 9.878 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060637.D

Acq: 19 Mar 2020 15:23

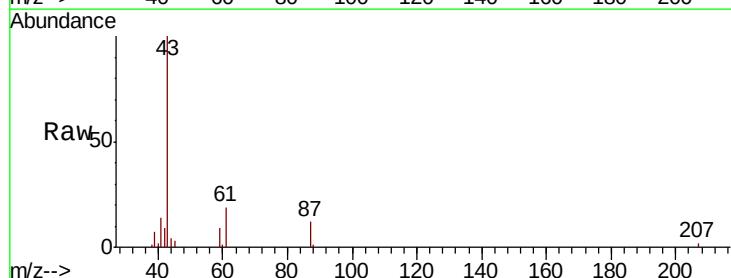
Tgt Ion: 43 Resp: 55905

Ion Ratio Lower Upper

43 100

61 19.1 20.7 31.1#

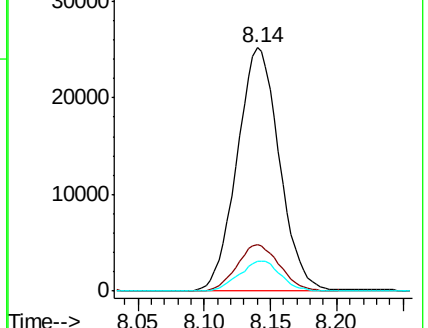
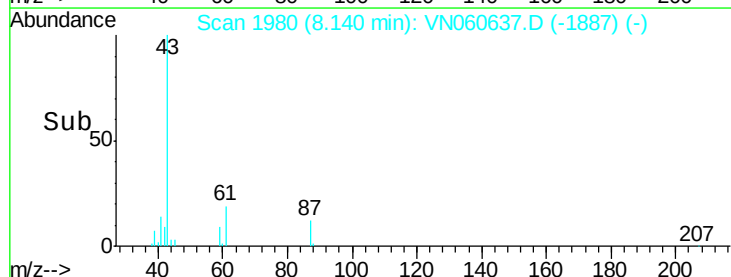
87 11.9 9.8 14.8

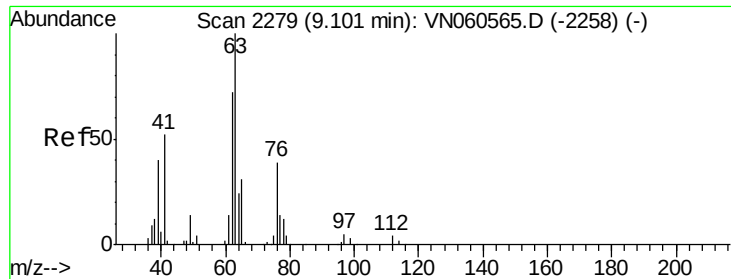


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

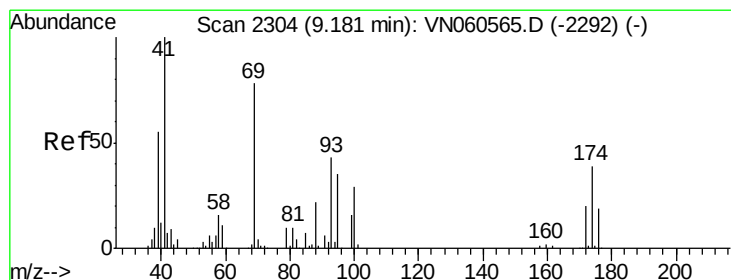
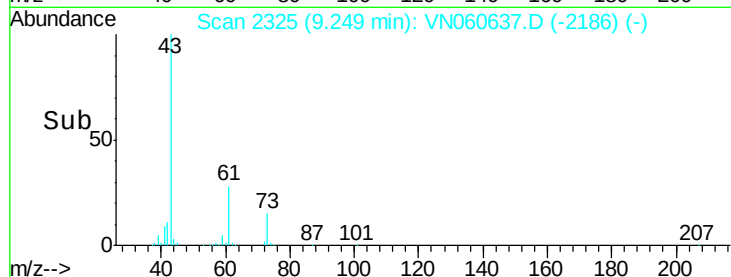
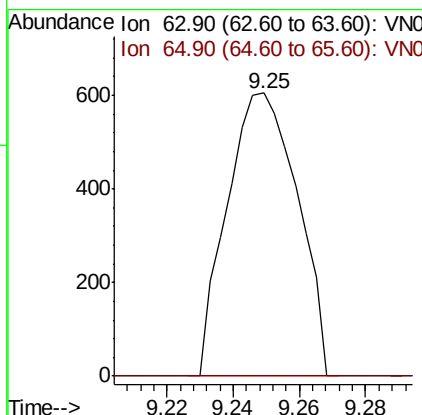
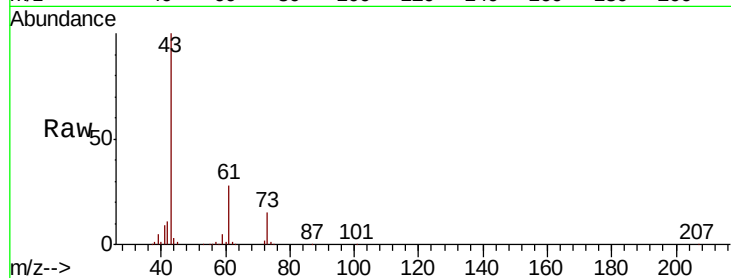




#45
 1,2-Dichloropropane
 Concen: 0.353 ug/l
 RT: 9.25 min Scan# 2325
 Delta R.T. 0.15 min
 Lab File: VN060637.D
 Acq: 19 Mar 2020 15:23

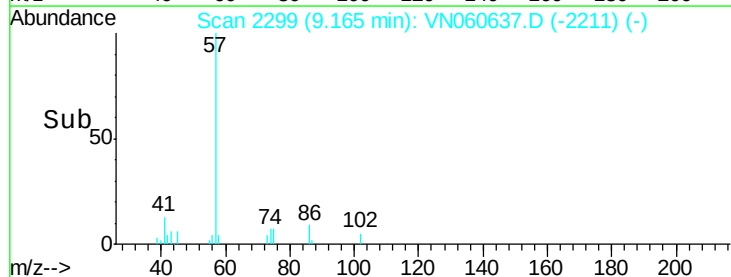
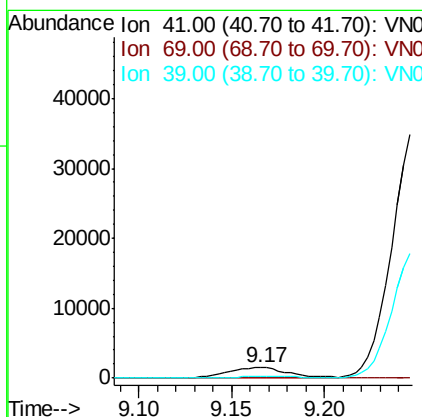
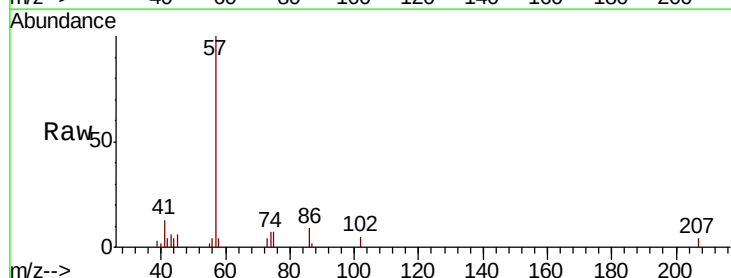
Instrument :
 MSVOA_N
 ClientSampleId :

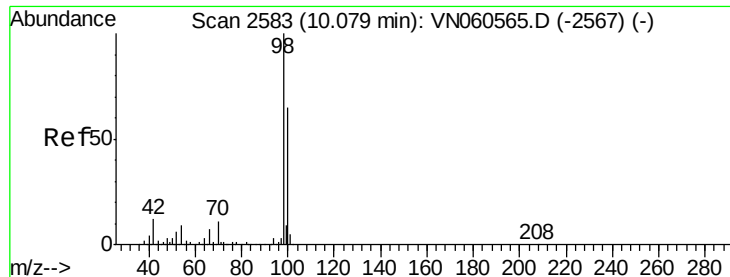
Tot Ion: 63 Resp: 892
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.4 38.0#



#48
 Methyl methacrylate
 Concen: 1.310 ug/l
 RT: 9.17 min Scan# 2299
 Delta R.T. -0.02 min
 Lab File: VN060637.D
 Acq: 19 Mar 2020 15:23

Tgt Ion: 41 Resp: 3302
 Ion Ratio Lower Upper
 41 100
 69 0.0 65.4 98.0#
 39 0.0 44.0 66.0#





#50

Toluene-d8

Concen: 49.776 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060637.D

Acq: 19 Mar 2020 15:23

Instrument :

MSVOA_N

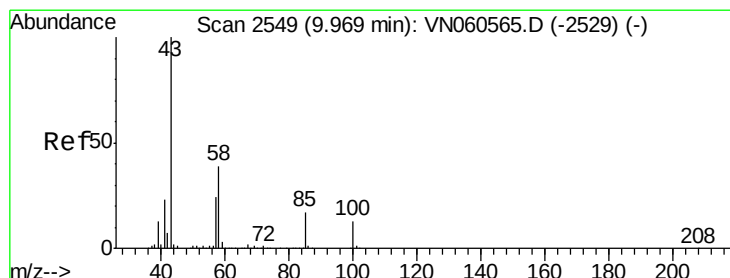
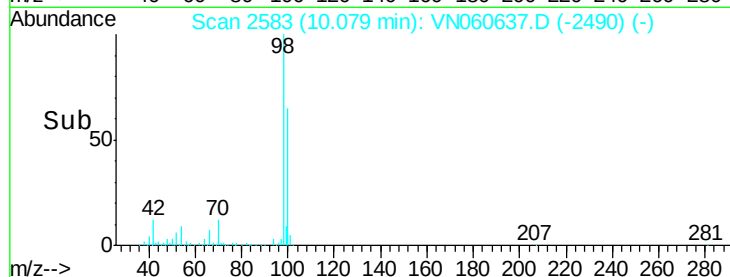
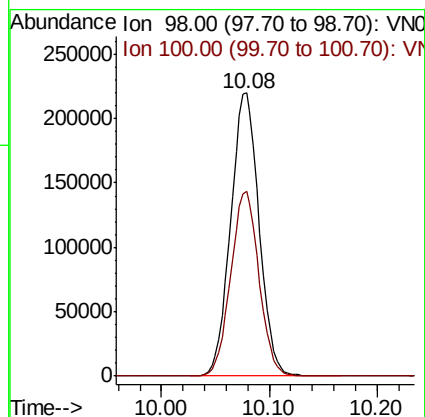
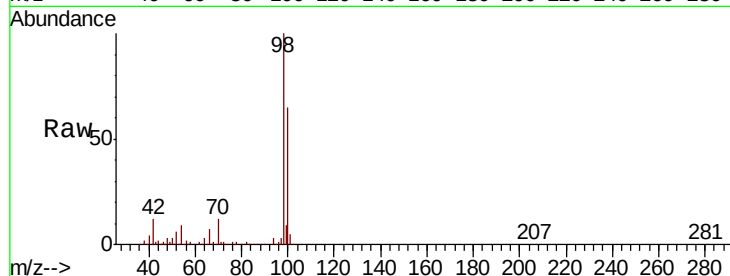
ClientSampleId :

Tot Ion: 98 Resp: 403215

Ion Ratio Lower Upper

98 100

100 65.0 51.8 77.8



#51

4-Methyl-2-Pentanone

Concen: 1.620 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060637.D

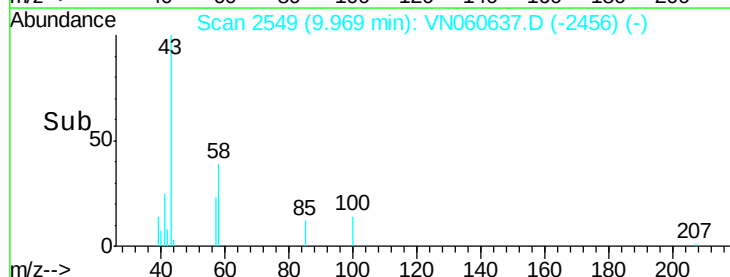
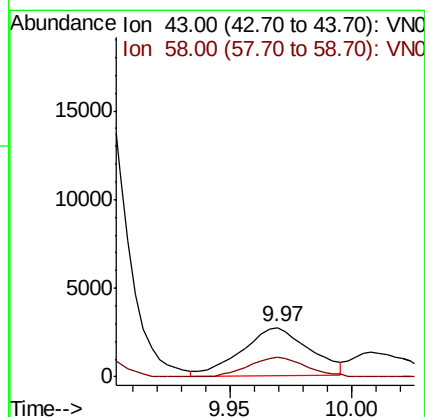
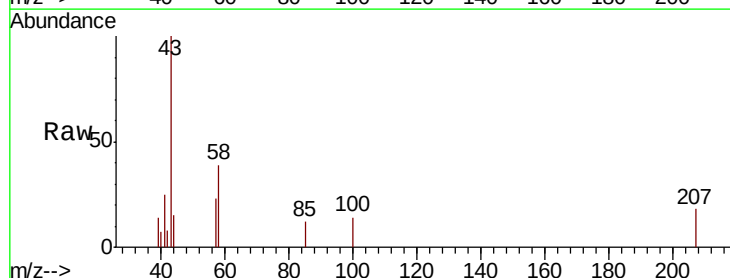
Acq: 19 Mar 2020 15:23

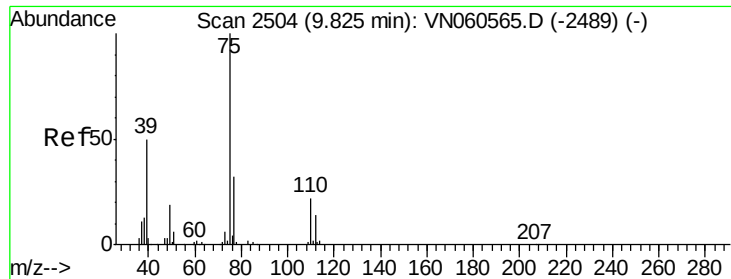
Tgt Ion: 43 Resp: 5218

Ion Ratio Lower Upper

43 100

58 35.1 30.8 46.2





#54

cis-1,3-Dichloropropene

Concen: 5.723 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060637.D

Acq: 19 Mar 2020 15:23

Instrument :

MSVOA_N

ClientSampleId :

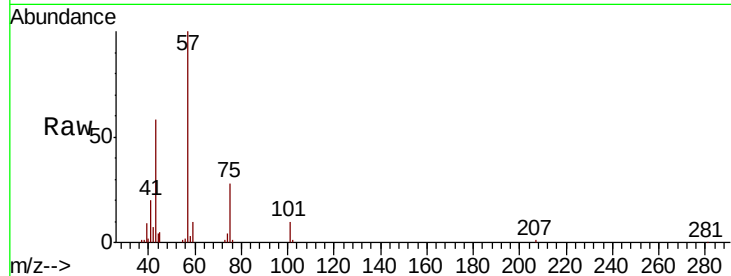
Tot Ion: 75 Resp: 22920

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

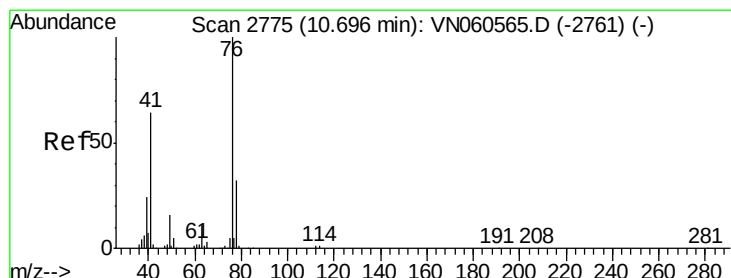
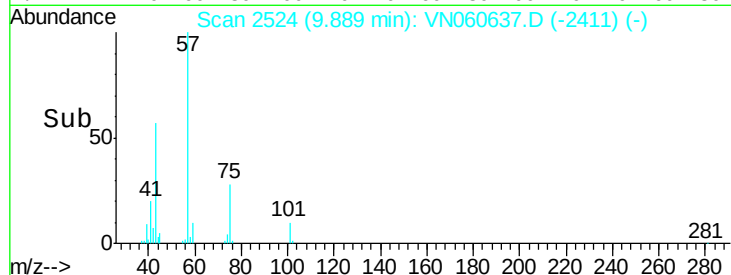
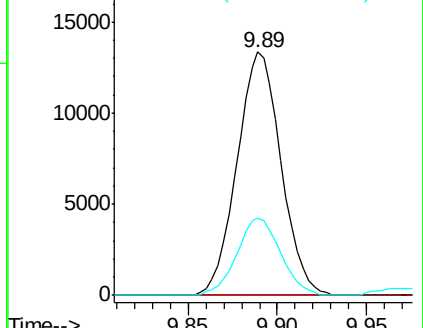
39 31.8 40.2 60.4#



Abundance Ion 74.90 (74.60 to 75.60): VN060565.D (-2489) (-)

Ion 76.90 (76.60 to 77.60): VN060565.D (-2489) (-)

Ion 39.00 (38.70 to 39.70): VN060565.D (-2489) (-)



#57

1,3-Dichloropropane

Concen: 0.780 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060637.D

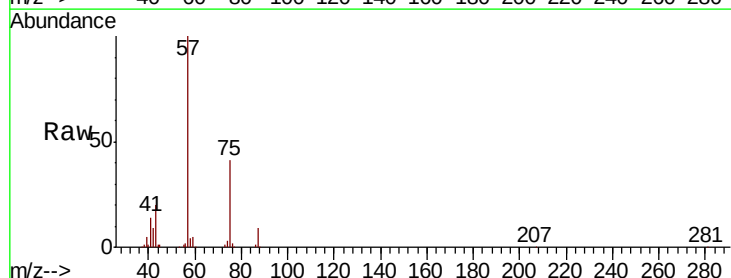
Acq: 19 Mar 2020 15:23

Tgt Ion: 76 Resp: 3015

Ion Ratio Lower Upper

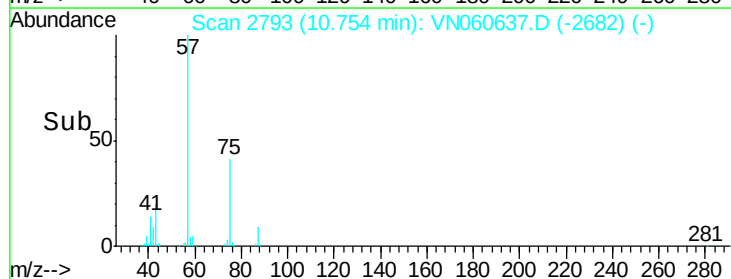
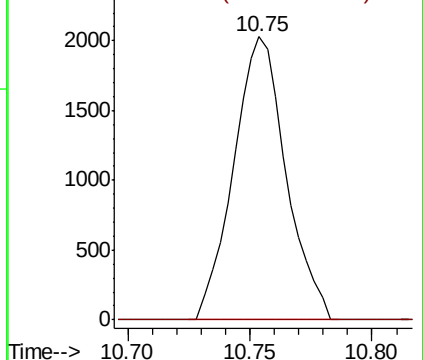
76 100

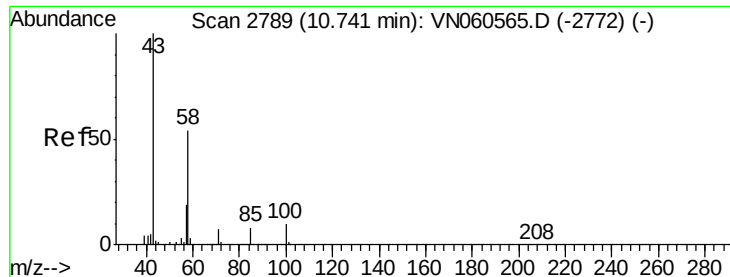
78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN060565.D (-2761) (-)

Ion 77.90 (77.60 to 78.60): VN060565.D (-2761) (-)

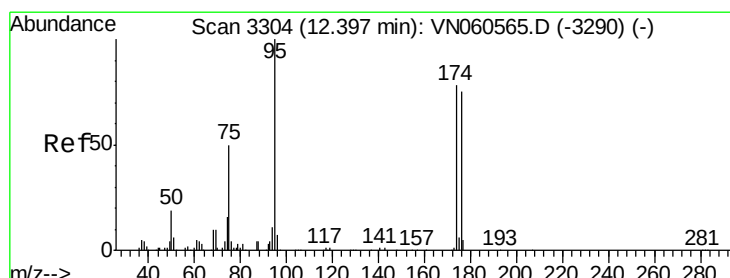
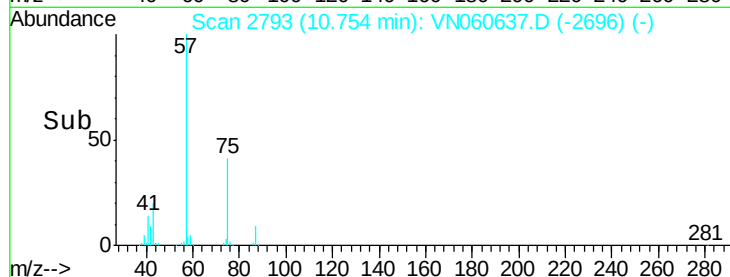
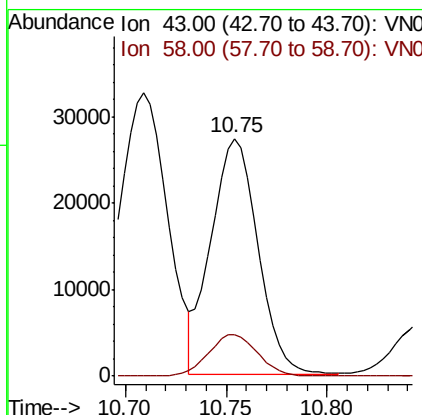
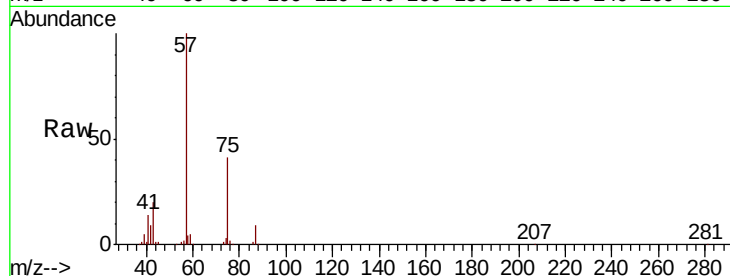




#59
2-Hexanone
Concen: 19.089 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060637.D
Acq: 19 Mar 2020 15:23

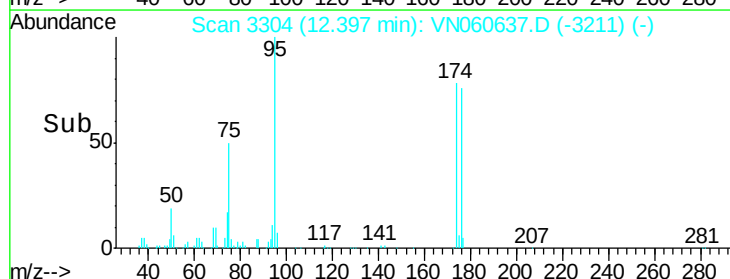
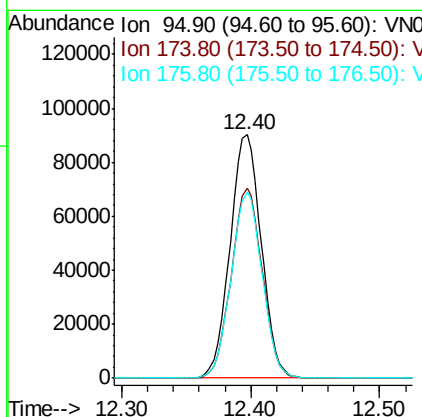
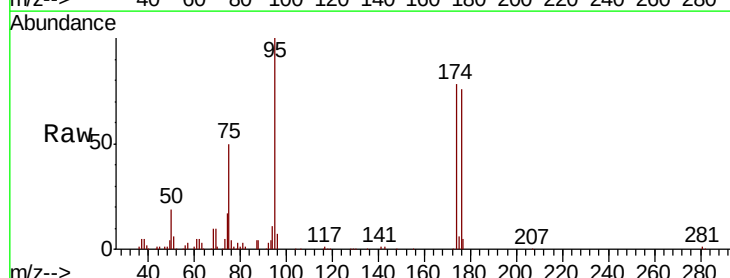
Instrument :
MSVOA_N
ClientSampleId :

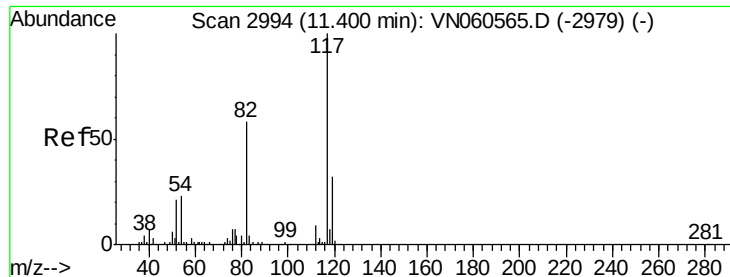
Tot Ion: 43 Resp: 44284
Ion Ratio Lower Upper
43 100
58 18.4 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 51.119 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060637.D
Acq: 19 Mar 2020 15:23

Tgt Ion: 95 Resp: 151760
Ion Ratio Lower Upper
95 100
174 77.4 0.0 157.6
176 75.9 0.0 150.6

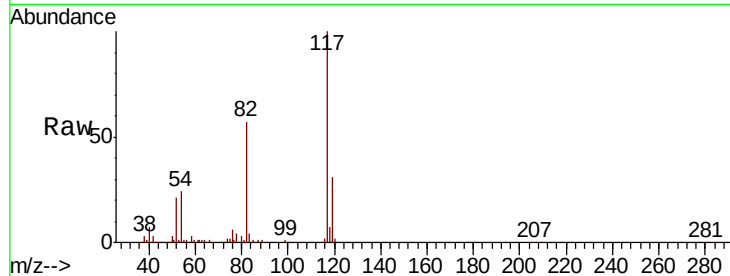




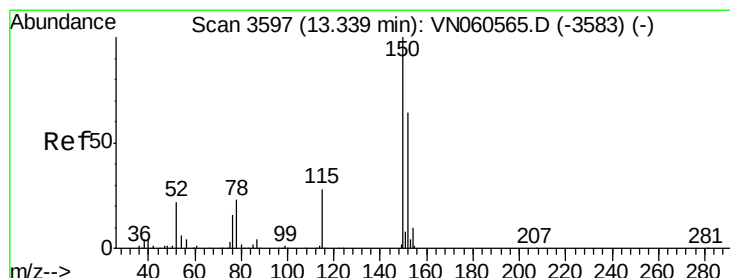
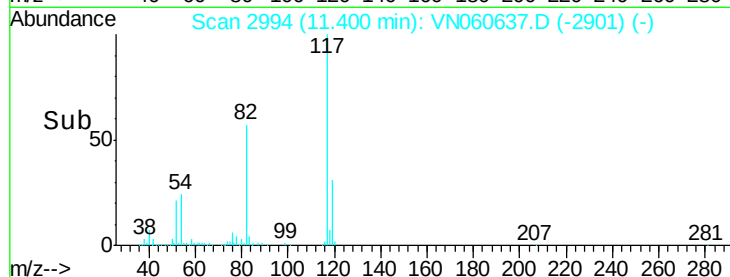
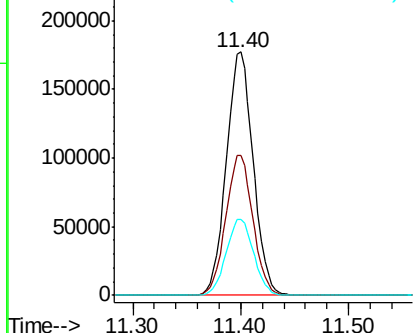
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060637.D
Acq: 19 Mar 2020 15:23

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 307785
Ion Ratio Lower Upper
117 100
82 57.4 46.7 70.1
119 31.4 25.5 38.3

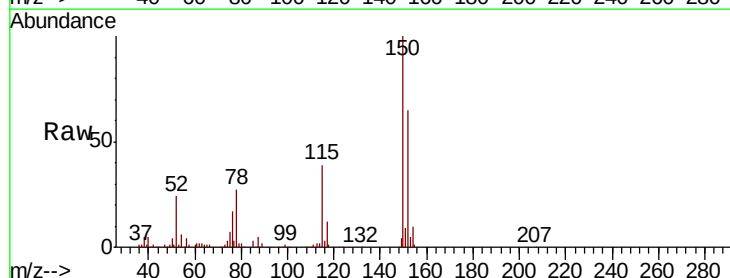


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

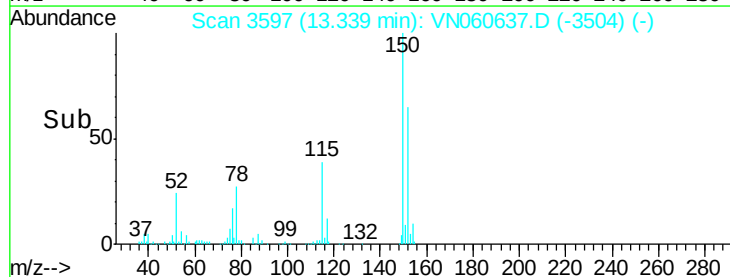
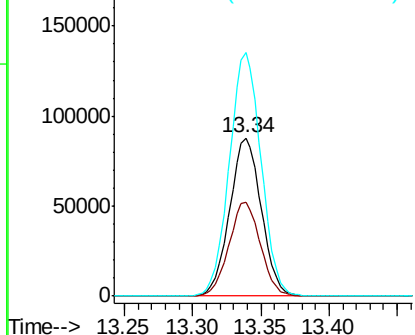


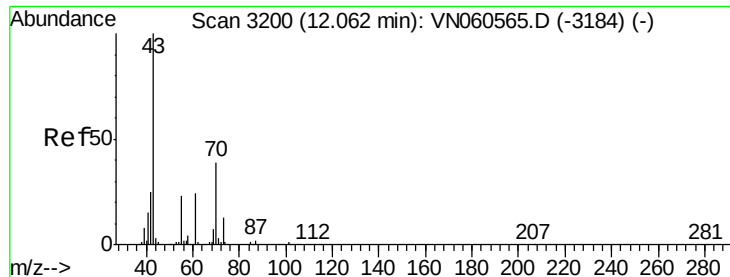
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN060637.D
Acq: 19 Mar 2020 15:23

Tgt Ion:152 Resp: 141403
Ion Ratio Lower Upper
152 100
115 59.2 30.2 90.6
150 154.7 0.0 350.2



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

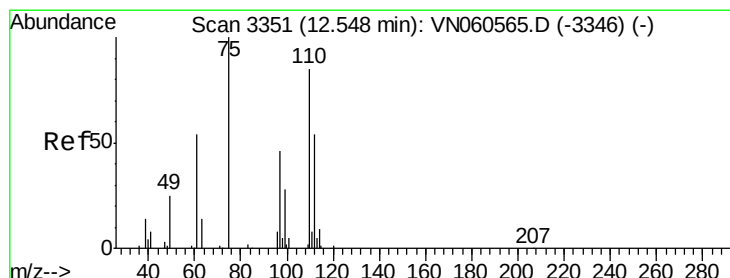
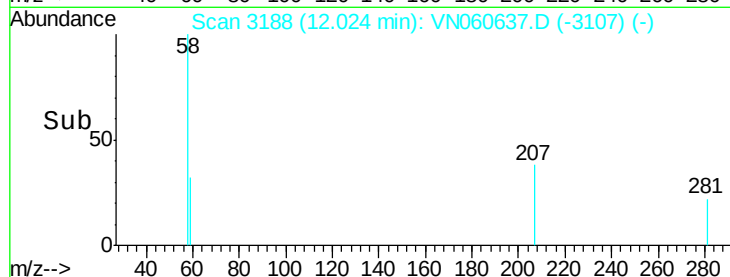
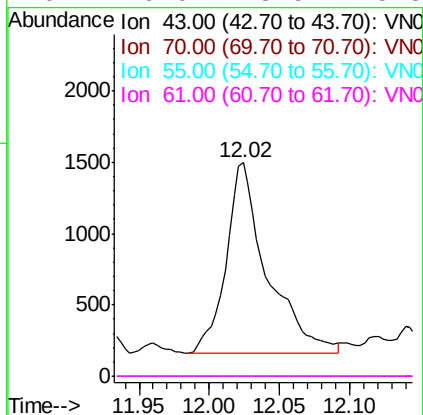
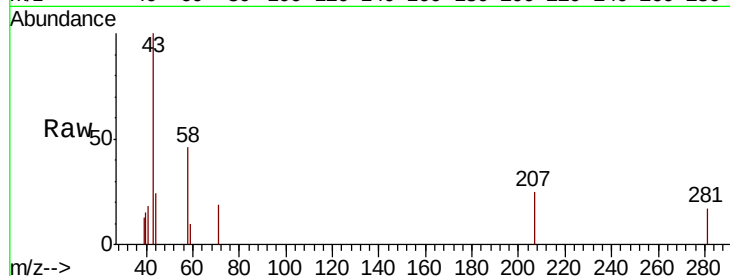




#74
N-amyl acetate
Concen: 0.552 ug/l
RT: 12.02 min Scan# 3188
Delta R.T. -0.04 min
Lab File: VN060637.D
Acq: 19 Mar 2020 15:23

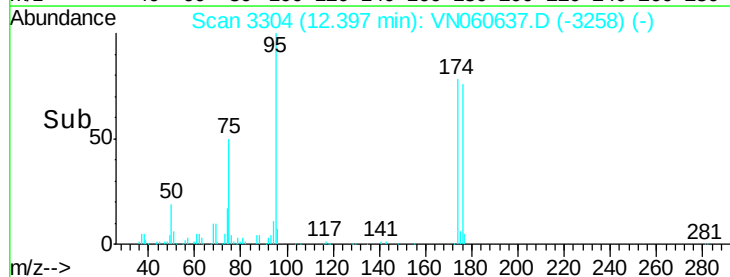
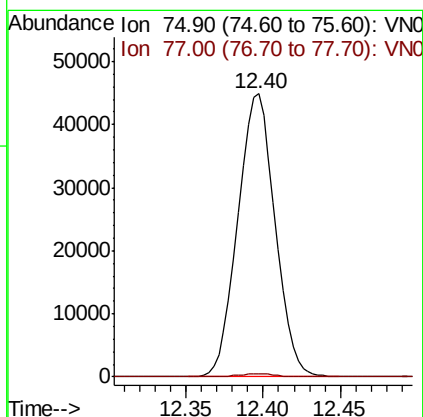
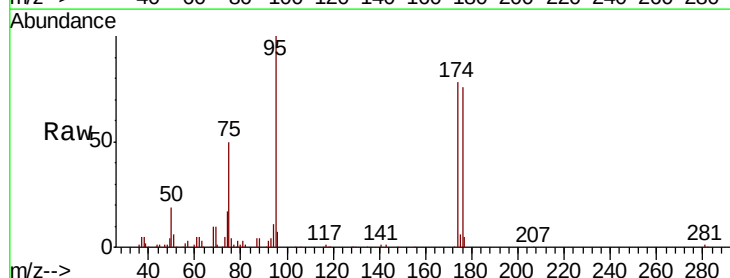
Instrument :
MSVOA_N
ClientSampleId :

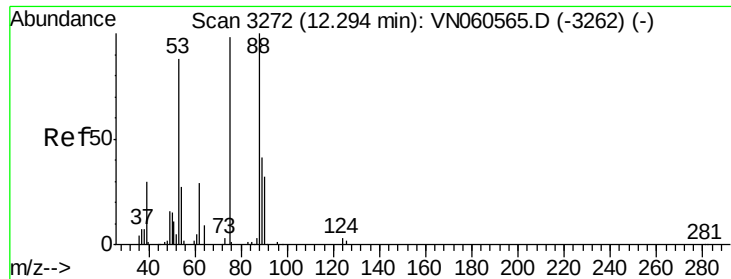
Tot Ion:	43	Resp:	2707
Ion	Ratio	Lower	Upper
43	100		
70	0.0	31.1	46.7#
55	0.0	18.6	27.8#
61	0.0	18.9	28.3#



#76
1,2,3-Trichloropropane
Concen: 24.673 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.15 min
Lab File: VN060637.D
Acq: 19 Mar 2020 15:23

Tgt Ion:	75	Resp:	75283
Ion	Ratio	Lower	Upper
75	100		
77	1.0	0.0	0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.369 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN060637.D
 Acq: 19 Mar 2020 15:23

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 75283
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.0 109.4#
 89 0.0 34.8 52.2#

