

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022120\
 Data File : VN060184.D
 Acq On : 21 Feb 2020 12:52
 Operator : JC/MD
 Sample : L1645-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 21 22:24:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

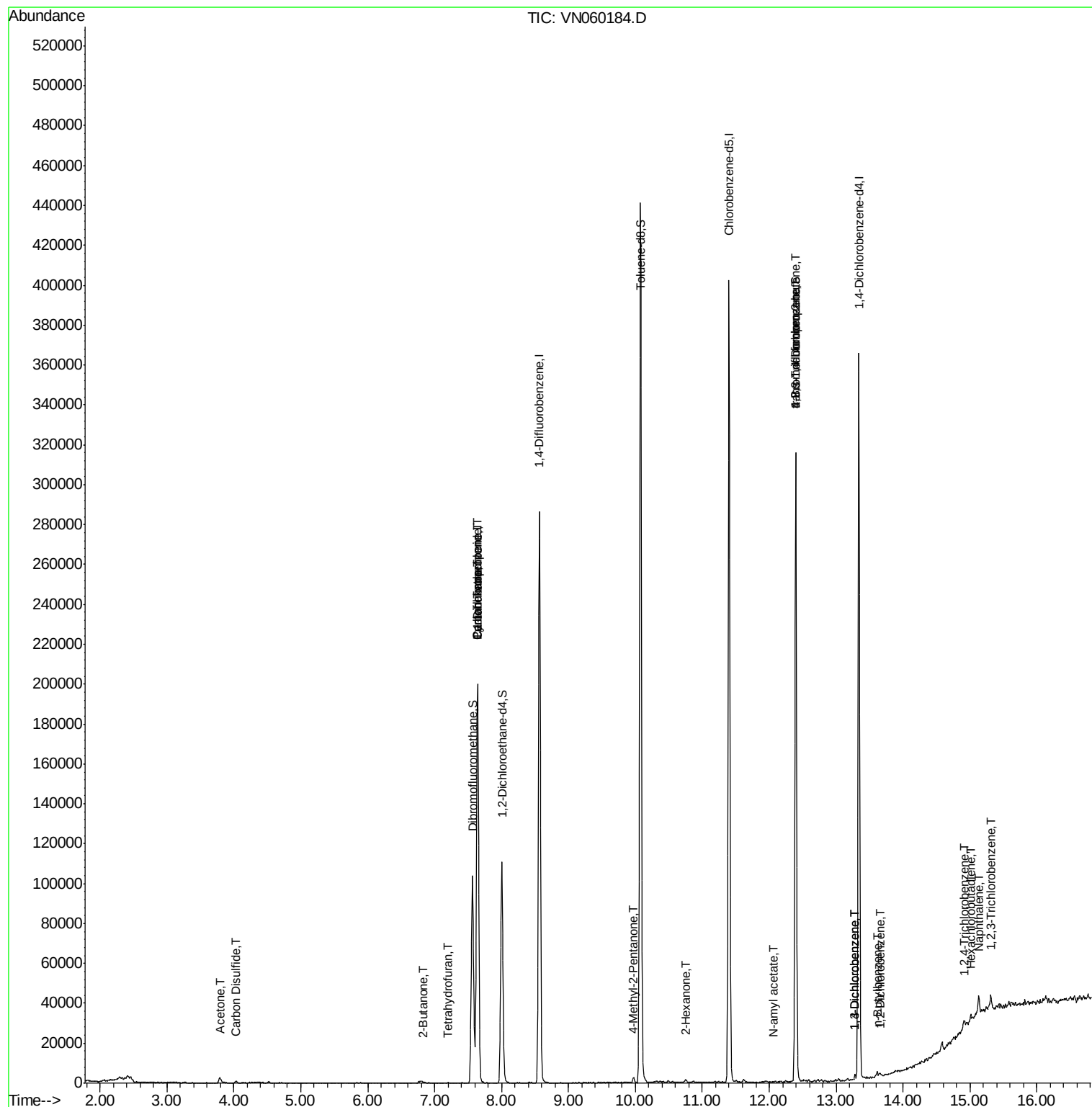
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	168037	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	261163	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	237016	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	99979	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	97845	47.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.70%	
35) Dibromofluoromethane	7.57	113	79154	49.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.62%	
50) Toluene-d8	10.08	98	312259	49.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.78%	
62) 4-Bromofluorobenzene	12.40	95	107283	46.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.36%	
Target Compounds						
					Qvalue	
16) Acetone	3.79	43	4916	5.512	ug/l	97
17) Carbon Disulfide	4.03	76	1114	0.233	ug/l #	76
25) 2-Butanone	6.83	43	1359	1.212	ug/l #	46
29) Tetrahydrofuran	7.20	42	152	0.221	ug/l #	30
31) Cyclohexane	7.64	56	3484	1.205	ug/l #	26
36) 1,1-Dichloropropene	7.64	75	11967	4.947	ug/l #	48
38) Carbon Tetrachloride	7.64	117	15837	6.028	ug/l #	15
51) 4-Methyl-2-Pentanone	9.98	43	1820	0.841	ug/l	99
59) 2-Hexanone	10.75	43	1077	0.645	ug/l	63
74) N-amyl acetate	12.06	43	614	0.228	ug/l #	43
76) 1,2,3-Trichloropropane	12.40	75	54284	28.379	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	54284	69.486	ug/l #	12
87) 1,3-Dichlorobenzene	13.28	146	858	0.262	ug/l	85
88) 1,4-Dichlorobenzene	13.28	146	858	0.262	ug/l	86
89) n-Butylbenzene	13.62	91	1794	0.310	ug/l	96
91) 1,2-Dichlorobenzene	13.65	146	943	0.294	ug/l	80
92) 1,2-Dibromo-3-Chloropropan	14.26	75	260	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.91	180	1883	0.998	ug/l	95
94) Hexachlorobutadiene	15.00	225	472	0.428	ug/l	99
95) Naphthalene	15.13	128	7709	1.513	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	2283	1.216	ug/l	93

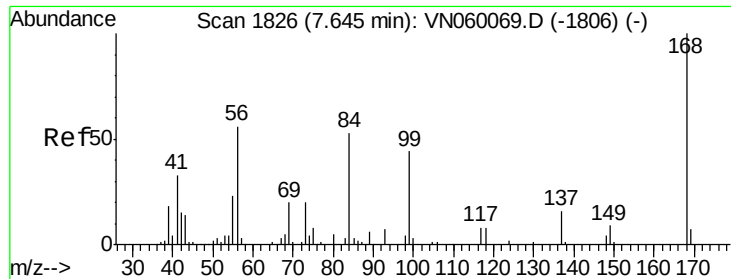
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 12 14:12:21 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060184.D

Acq: 21 Feb 2020 12:52

Instrument :

MSVOA_N

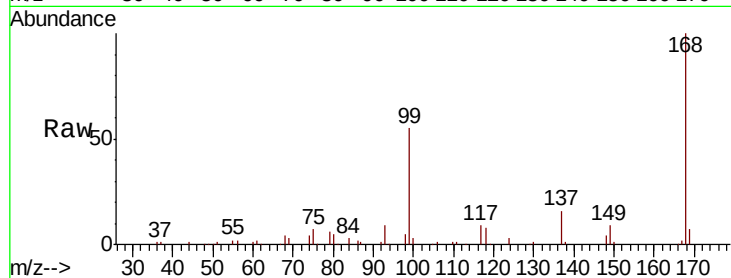
ClientSampled :

Tot Ion:168 Resp: 168037

Ion Ratio Lower Upper

168 100

99 54.6 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

60000

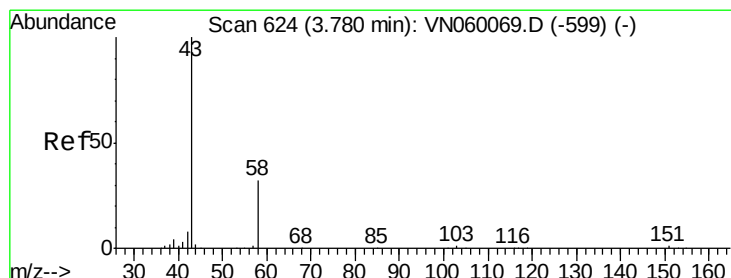
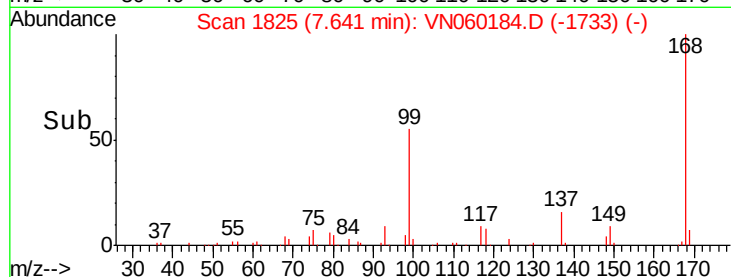
40000

20000

0

7.60 7.70

Time-->



#16

Acetone

Concen: 5.512 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060184.D

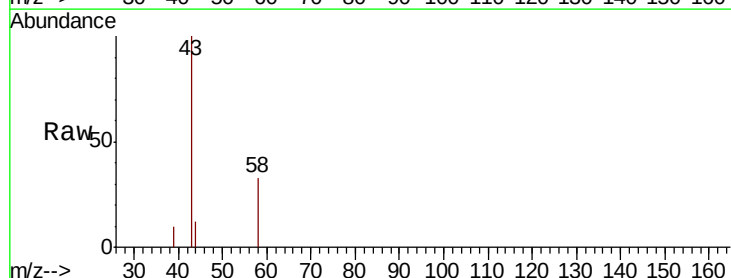
Acq: 21 Feb 2020 12:52

Tgt Ion: 43 Resp: 4916

Ion Ratio Lower Upper

43 100

58 33.0 25.2 37.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.79

1500

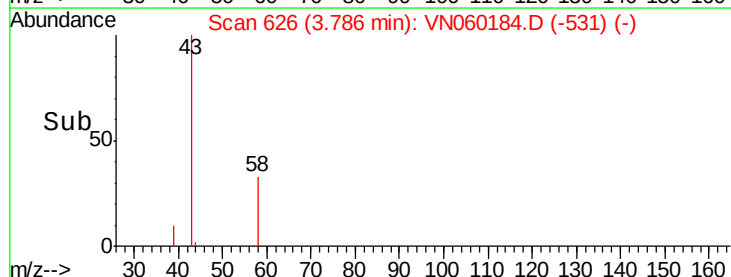
1000

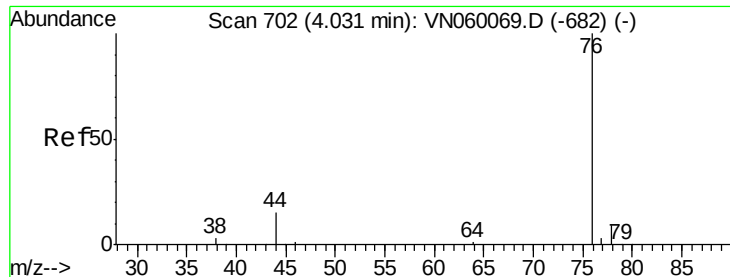
500

0

3.70 3.75 3.80 3.85

Time-->





#17

Carbon Disulfide

Concen: 0.233 ug/l

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN060184.D

Acq: 21 Feb 2020 12:52

Instrument :

MSVOA_N

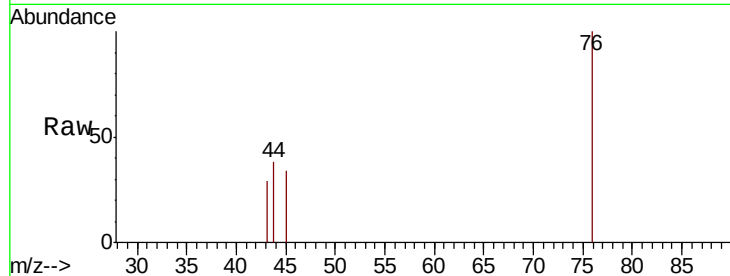
ClientSampleId :

Tot Ion: 76 Resp: 1114

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.03

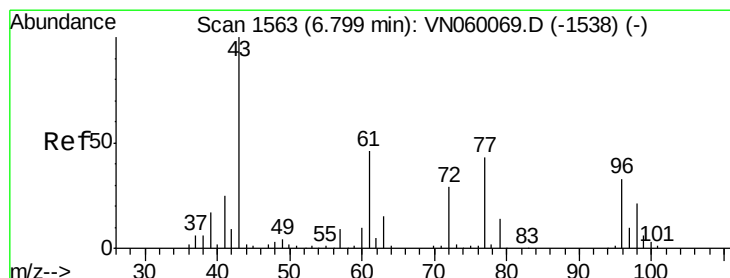
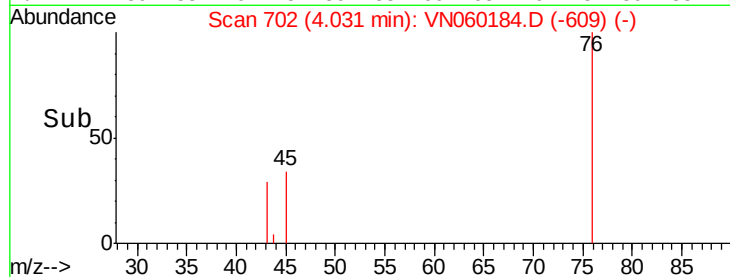
600

400

200

0

Time-->



#25

2-Butanone

Concen: 1.212 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.03 min

Lab File: VN060184.D

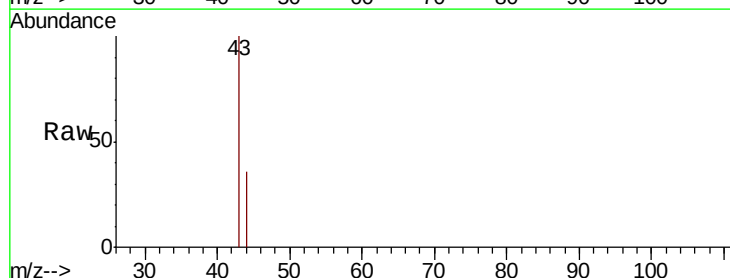
Acq: 21 Feb 2020 12:52

Tgt Ion: 43 Resp: 1359

Ion Ratio Lower Upper

43 100

72 0.0 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.83

400

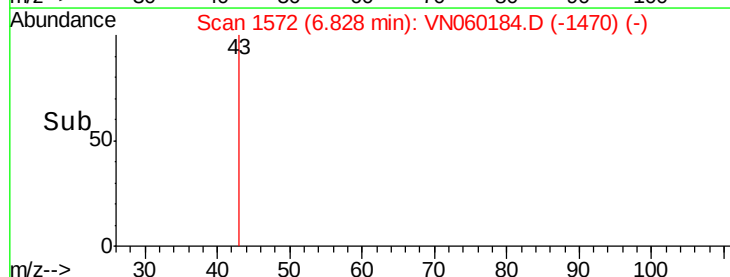
300

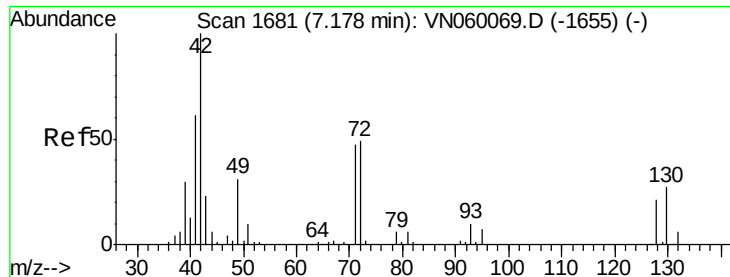
200

100

0

Time-->

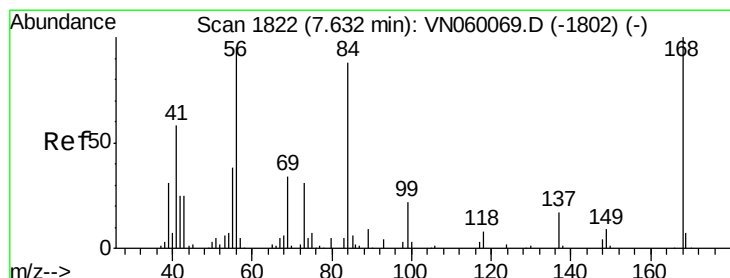
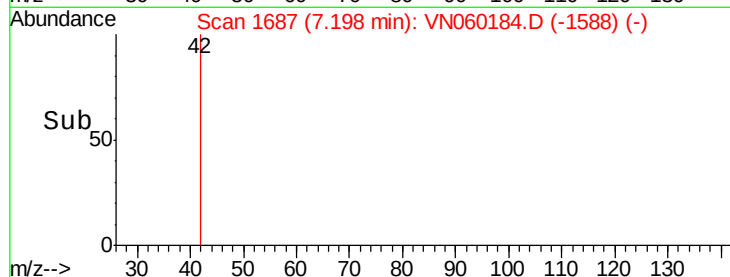
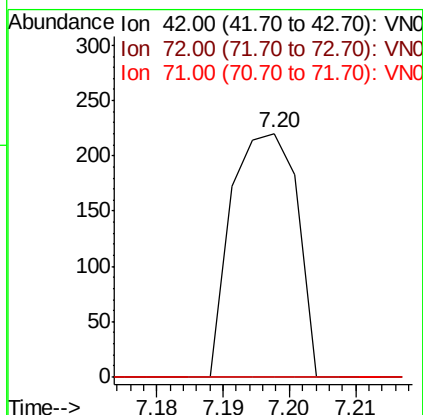
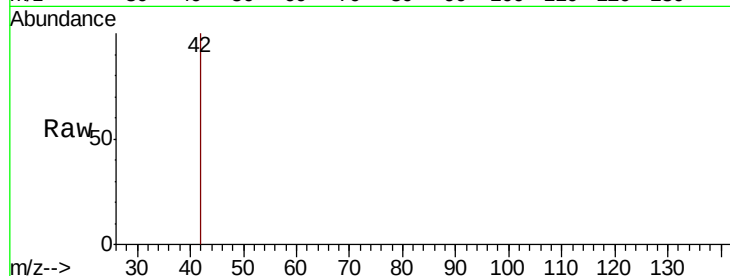




#29
Tetrahydrofuran
Concen: 0.221 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.02 min
Lab File: VN060184.D
Acq: 21 Feb 2020 12:52

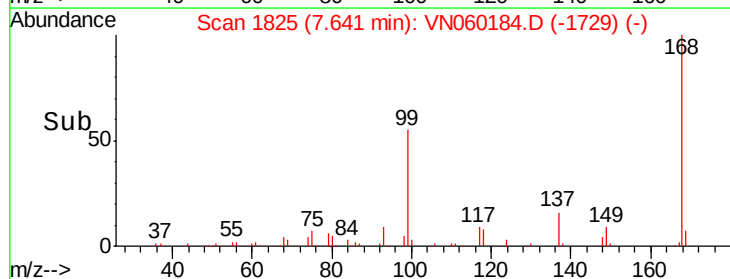
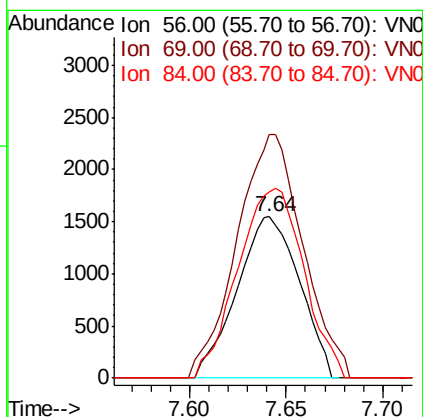
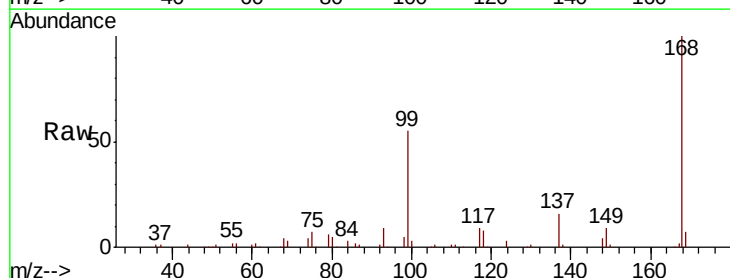
Instrument :
MSVOA_N
ClientSampleId :

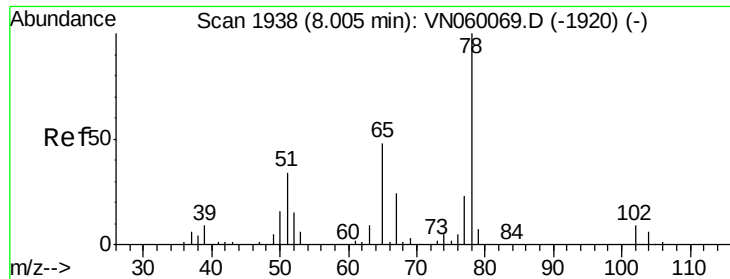
Tot Ion: 42 Resp: 152
Ion Ratio Lower Upper
42 100
72 0.0 38.2 57.4#
71 0.0 36.6 54.8#



#31
Cyclohexane
Concen: 1.205 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN060184.D
Acq: 21 Feb 2020 12:52

Tgt Ion: 56 Resp: 3484
Ion Ratio Lower Upper
56 100
69 150.8 28.3 42.5#
84 115.1 72.6 108.8#

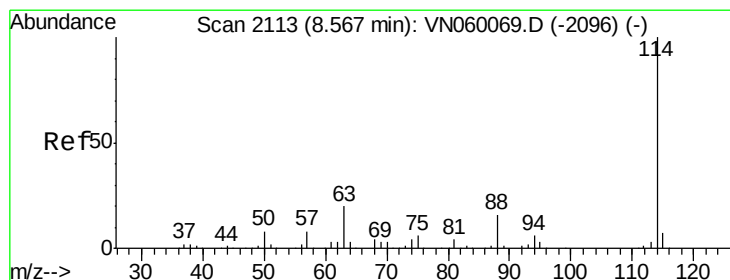
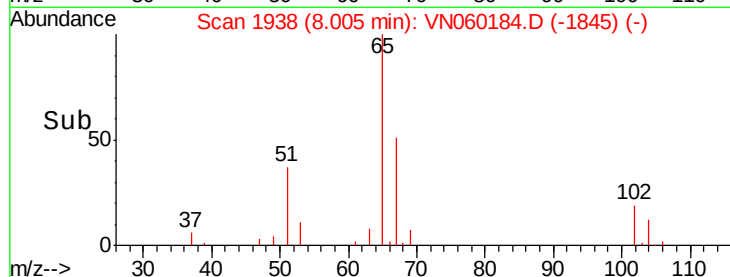
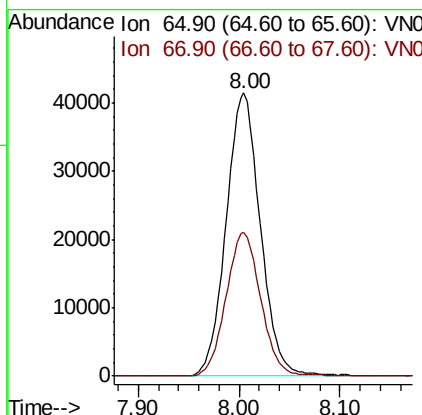
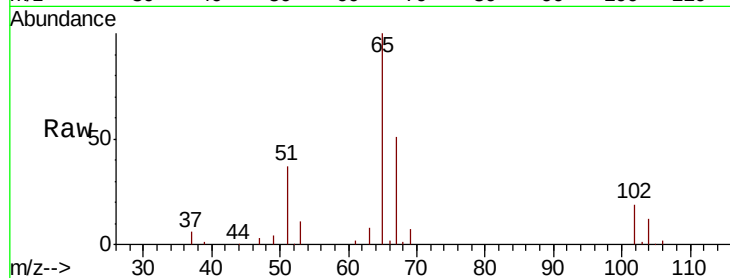




#33
 1,2-Dichloroethane-d4
 Concen: 47.852 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060184.D
 Acq: 21 Feb 2020 12:52

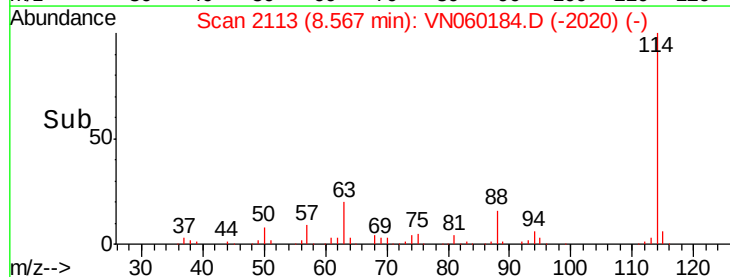
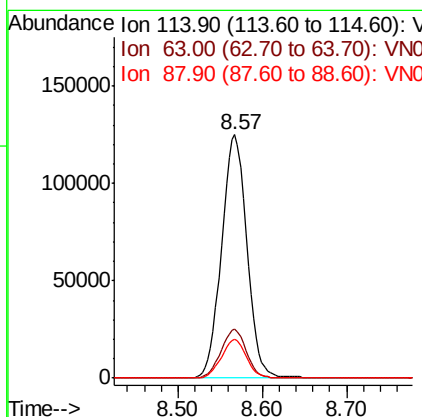
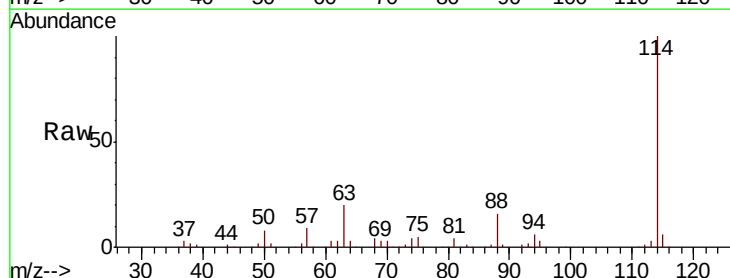
Instrument :
 MSVOA_N
 ClientSampleId :

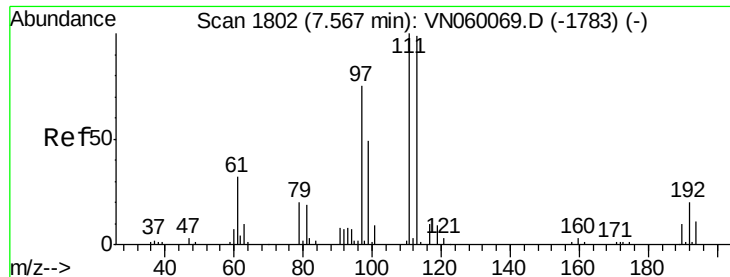
Tot Ion: 65 Resp: 97845
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060184.D
 Acq: 21 Feb 2020 12:52

Tgt Ion: 114 Resp: 261163
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 40.0
 88 16.0 0.0 31.6

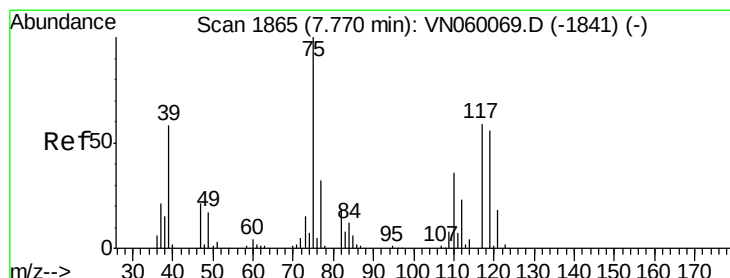
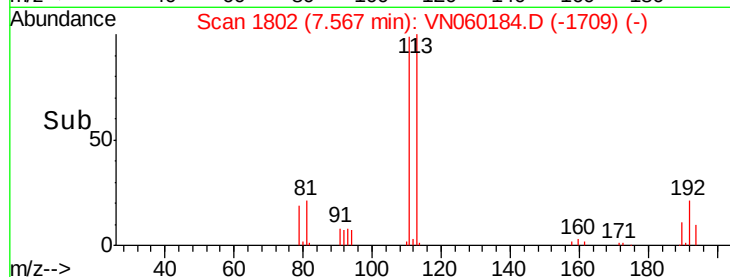
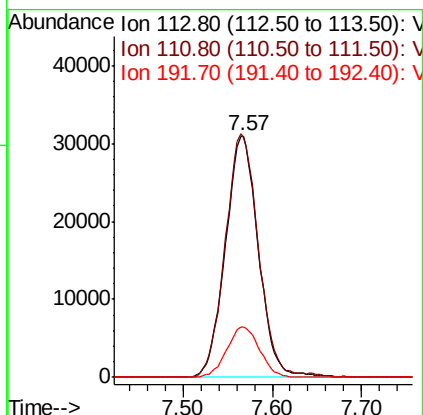
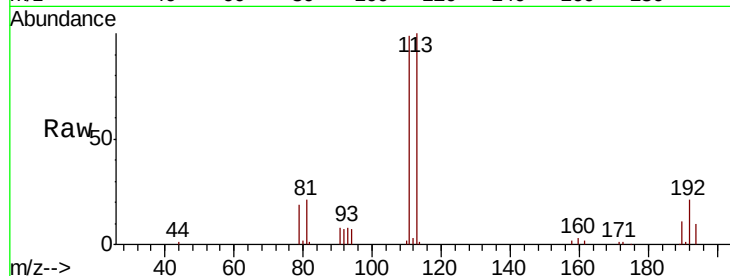




#35
 Dibromofluoromethane
 Concen: 49.306 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060184.D
 Acq: 21 Feb 2020 12:52

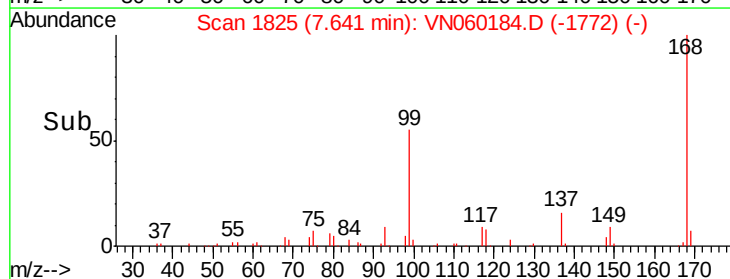
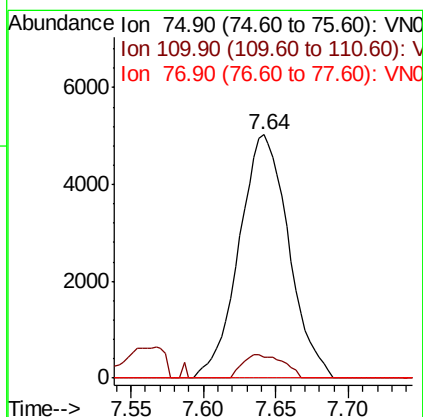
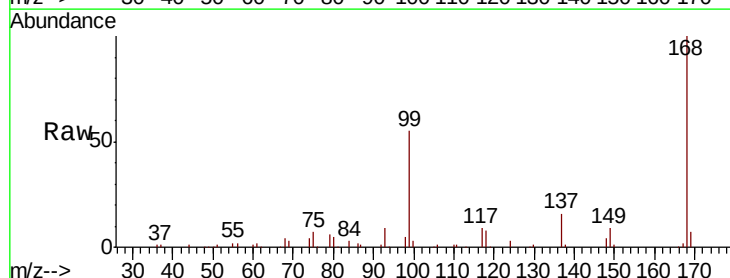
Instrument :
 MSVOA_N
 ClientSampleId :

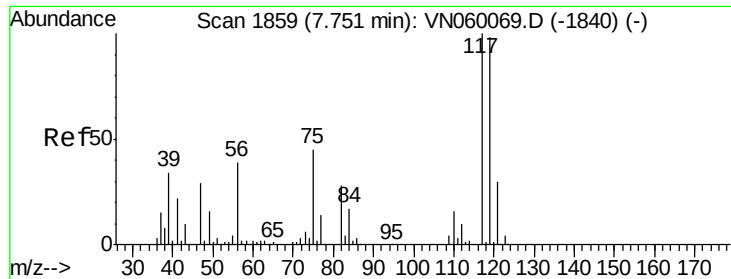
Tot Ion:113 Resp: 79154
 Ion Ratio Lower Upper
 113 100
 111 101.9 81.4 122.2
 192 20.6 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 4.947 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060184.D
 Acq: 21 Feb 2020 12:52

Tgt Ion: 75 Resp: 11967
 Ion Ratio Lower Upper
 75 100
 110 7.9 18.1 54.3#
 77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 6.028 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.11 min

Lab File: VN060184.D

Acq: 21 Feb 2020 12:52

Instrument :

MSVOA_N

ClientSampleId :

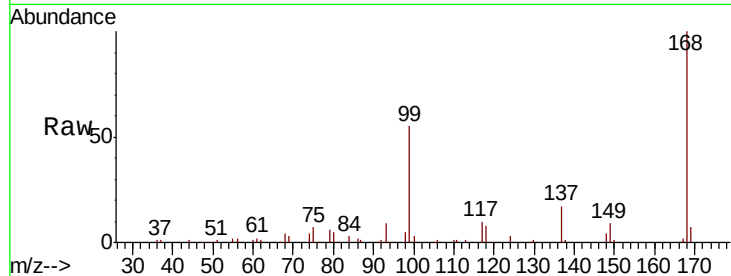
Tot Ion:117 Resp: 15837

Ion Ratio Lower Upper

117 100

119 4.3 78.2 117.4#

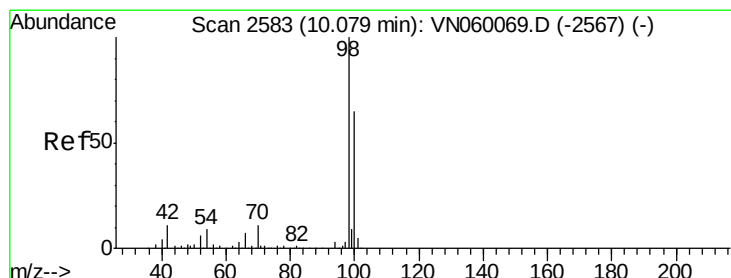
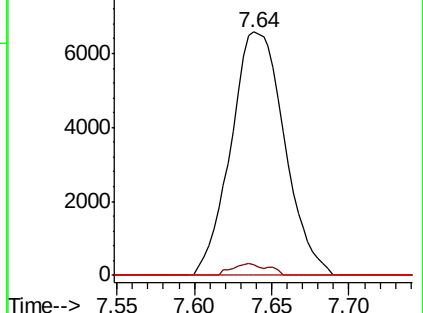
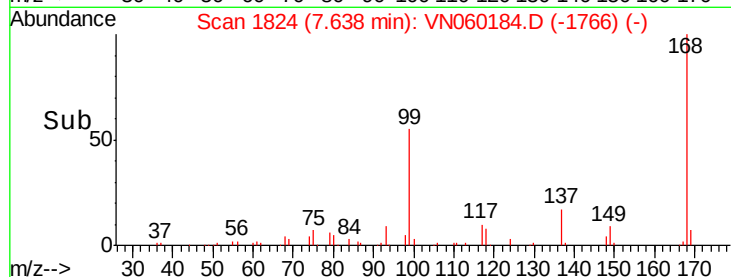
121 0.0 24.2 36.2#



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



#50

Toluene-d8

Concen: 49.394 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060184.D

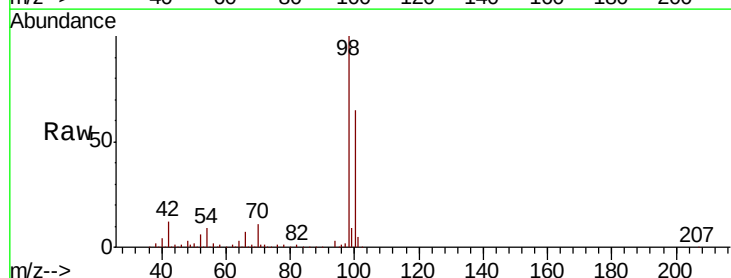
Acq: 21 Feb 2020 12:52

Tgt Ion: 98 Resp: 312259

Ion Ratio Lower Upper

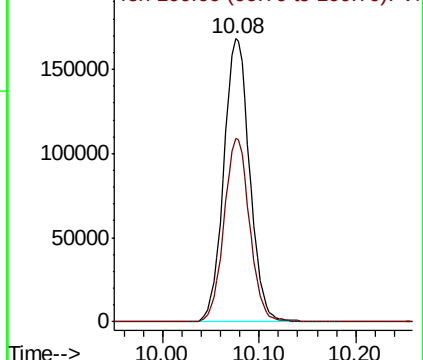
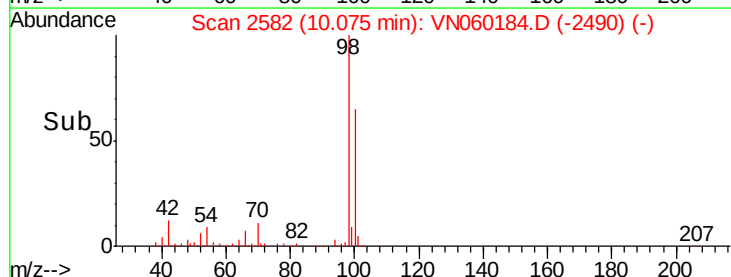
98 100

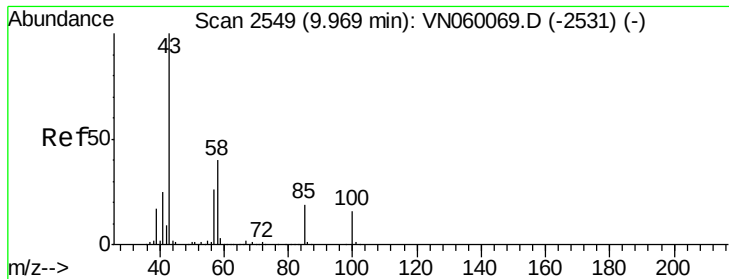
100 64.1 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#51

4-Methyl-2-Pentanone

Concen: 0.841 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.01 min

Lab File: VN060184.D

Acq: 21 Feb 2020 12:52

Instrument :

MSVOA_N

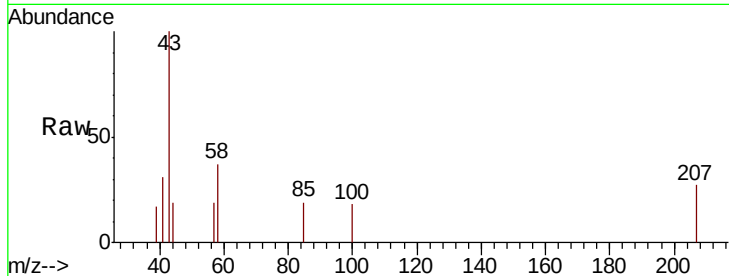
ClientSampled :

Tot Ion: 43 Resp: 1820

Ion Ratio Lower Upper

43 100

58 40.3 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VN060069.D (-2531) (-)

Ion 58.00 (57.70 to 58.70): VN060069.D (-2531) (-)

9.98

1000

800

600

400

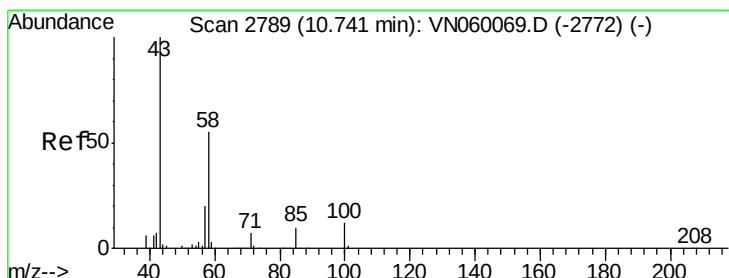
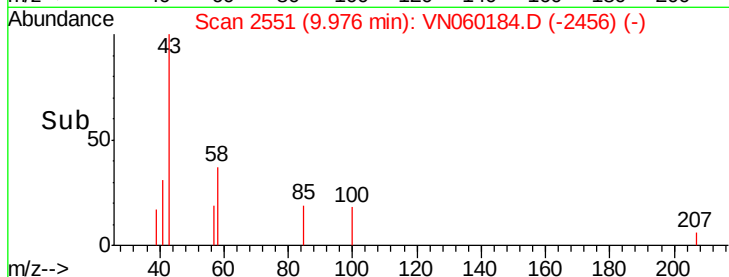
200

0

9.95

10.00

Time-->



#59

2-Hexanone

Concen: 0.645 ug/l

RT: 10.75 min Scan# 2791

Delta R.T. 0.01 min

Lab File: VN060184.D

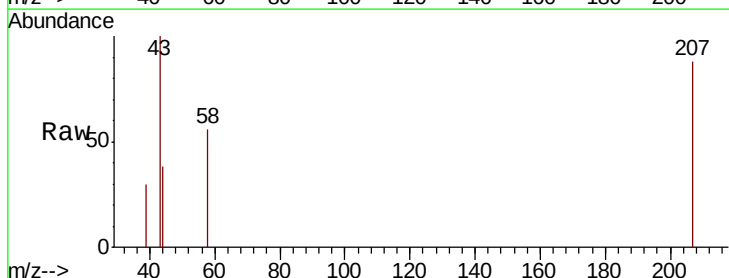
Acq: 21 Feb 2020 12:52

Tgt Ion: 43 Resp: 1077

Ion Ratio Lower Upper

43 100

58 28.3 27.5 82.4



Abundance Ion 43.00 (42.70 to 43.70): VN060069.D (-2772) (-)

Ion 58.00 (57.70 to 58.70): VN060069.D (-2772) (-)

10.75

600

500

400

300

200

100

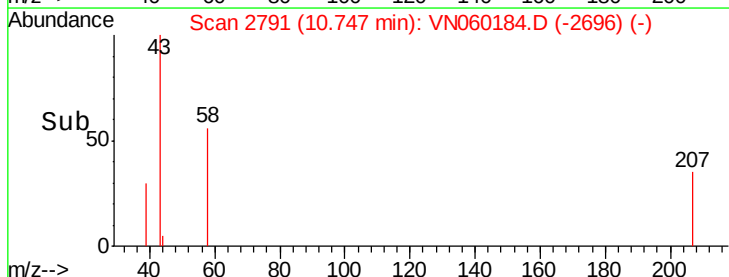
0

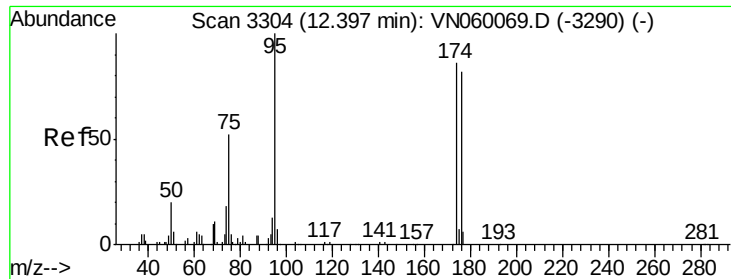
10.70

10.75

10.80

Time-->

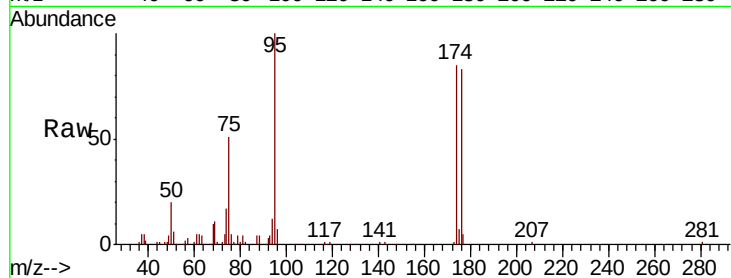




#62
4-Bromofluorobenzene
Concen: 46.183 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060184.D
Acq: 21 Feb 2020 12:52

Instrument :
MSVOA_N
ClientSampled :

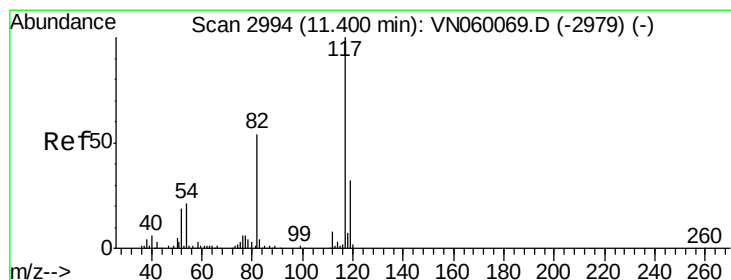
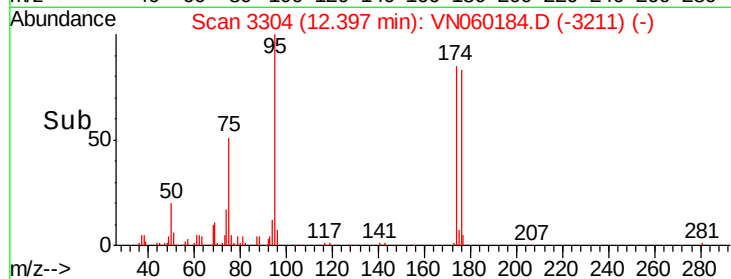
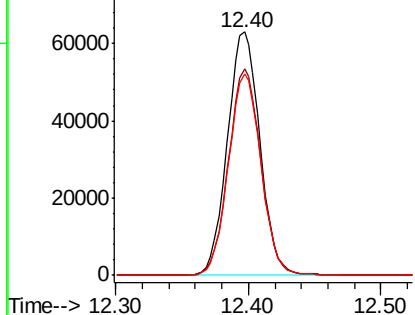
Tot Ion	Ratio	Lower	Upper
95	100		
174	84.7	0.0	169.8
176	82.9	0.0	164.8



Abundance Ion 94.90 (94.60 to 95.60): VN060069.D (-3290) (-)

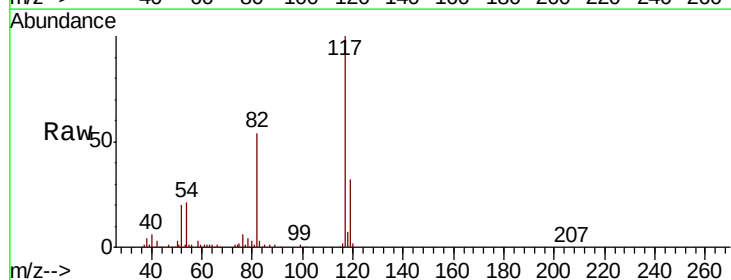
Ion 173.80 (173.50 to 174.50): VN060069.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060069.D (-3290) (-)



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060184.D
Acq: 21 Feb 2020 12:52

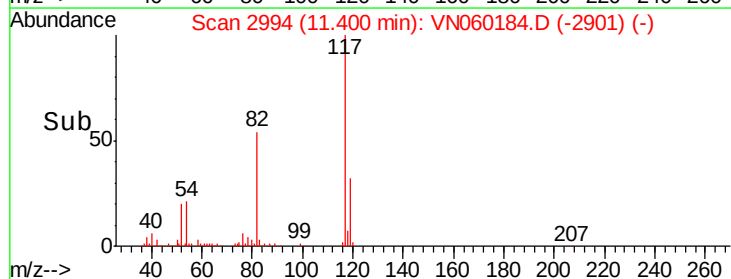
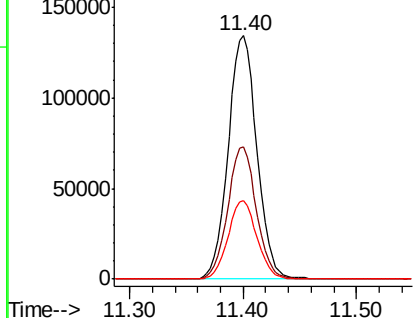
Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.1	43.4	65.0
119	32.2	25.8	38.6

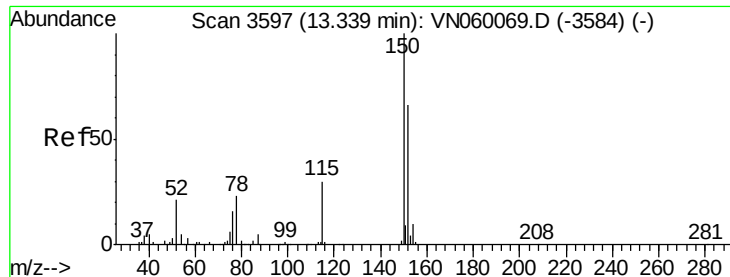


Abundance Ion 116.90 (116.60 to 117.60): VN060069.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060069.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060069.D (-2979) (-)



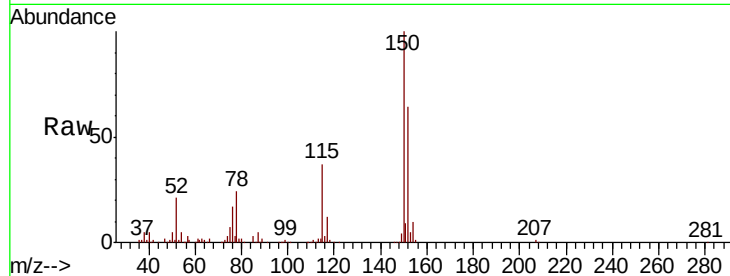


#72

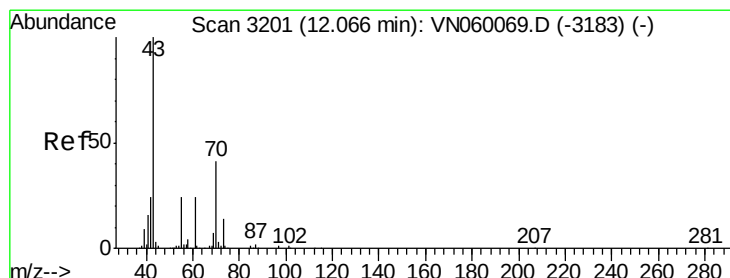
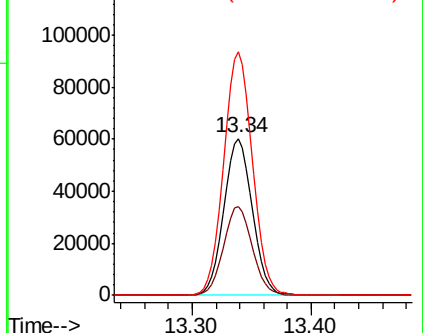
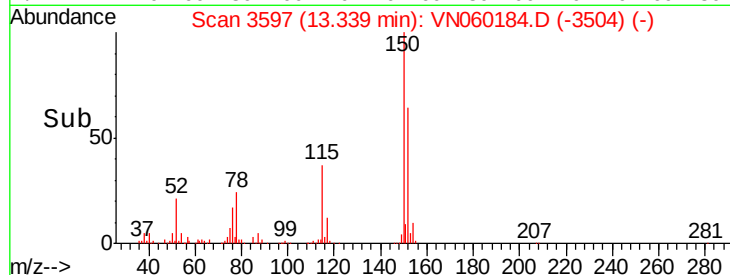
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN060184.D
Acq: 21 Feb 2020 12:52

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:152 Resp: 99979
Ion Ratio Lower Upper
152 100
115 57.3 28.9 86.8
150 156.7 0.0 342.4



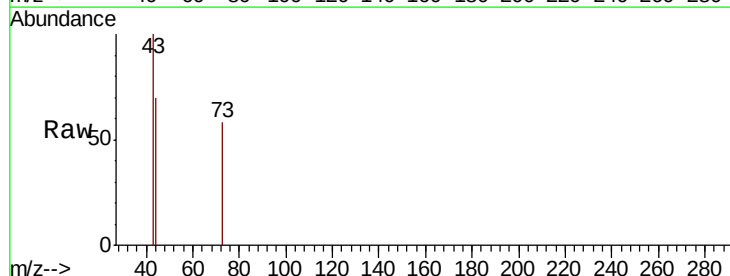
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



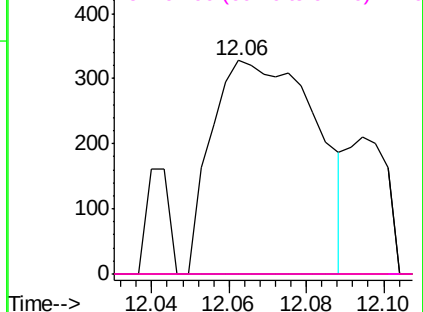
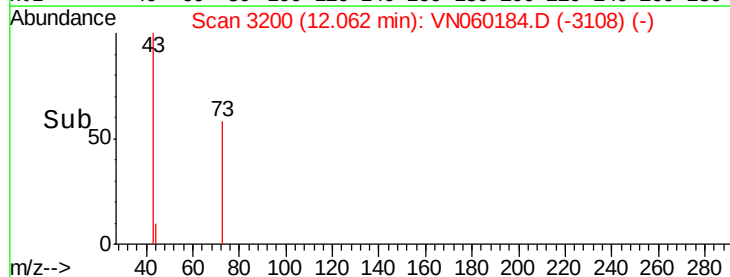
#74

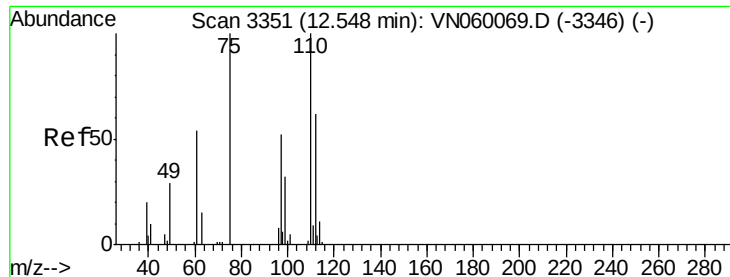
N-ethyl acetate
Concen: 0.228 ug/l
RT: 12.06 min Scan# 3200
Delta R.T. -0.00 min
Lab File: VN060184.D
Acq: 21 Feb 2020 12:52

Tgt Ion: 43 Resp: 614
Ion Ratio Lower Upper
43 100
70 0.0 33.4 50.0#
55 0.0 18.8 28.2#
61 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 70.00 (69.70 to 70.70): V
Ion 55.00 (54.70 to 55.70): V
Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 28.379 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060184.D

Acq: 21 Feb 2020 12:52

Instrument :

MSVOA_N

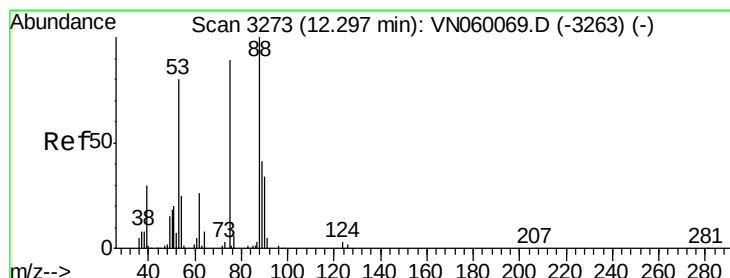
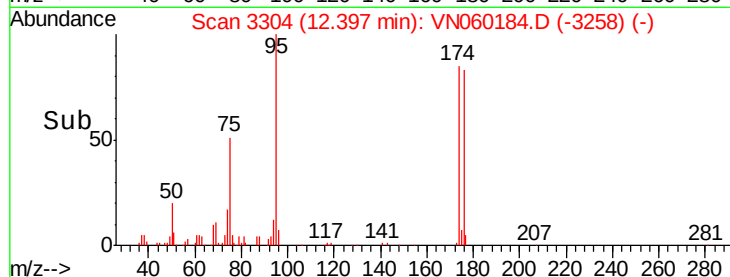
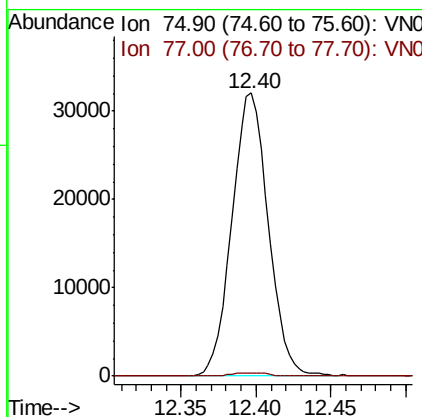
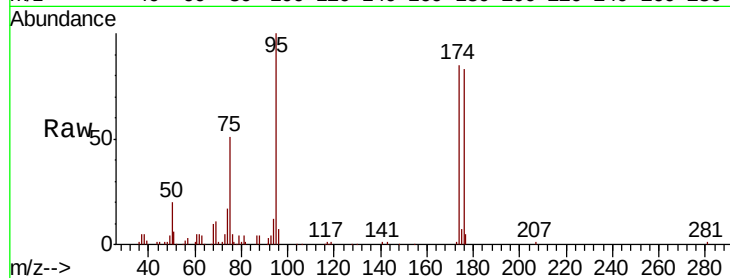
ClientSampleId :

Tot Ion: 75 Resp: 54284

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 69.486 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060184.D

Acq: 21 Feb 2020 12:52

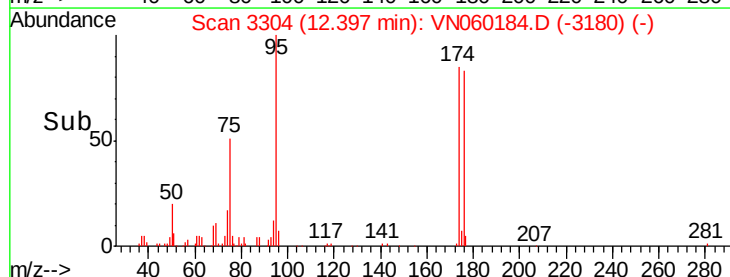
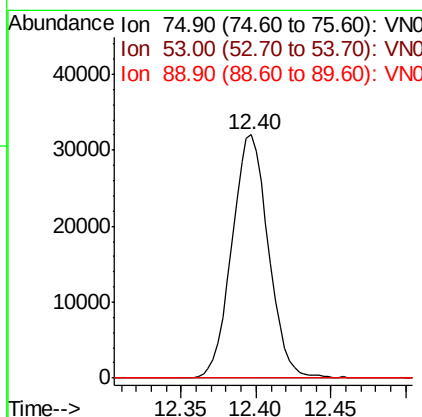
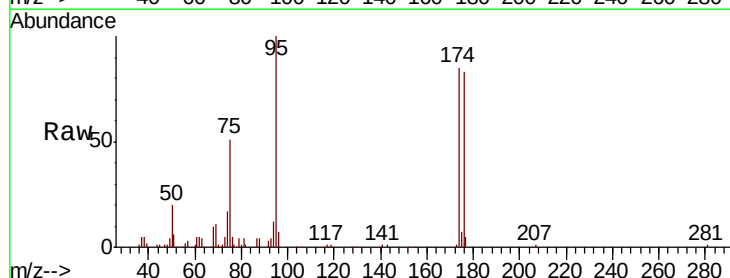
Tgt Ion: 75 Resp: 54284

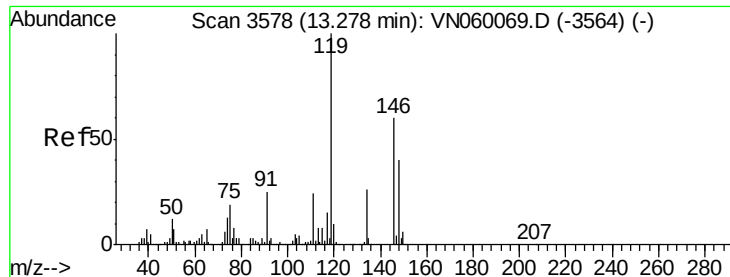
Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

89 0.0 37.0 55.4#





#87

1,3-Dichlorobenzene

Concen: 0.262 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. 0.00 min

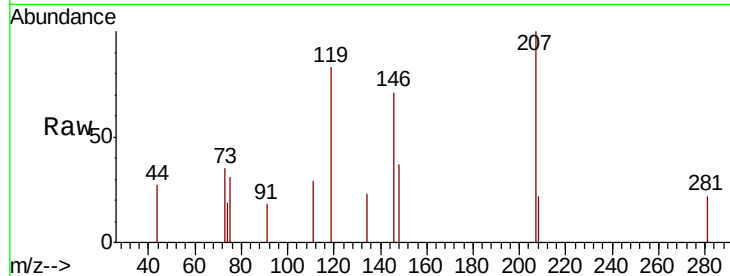
Lab File: VN060184.D

Acq: 21 Feb 2020 12:52

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:146 Resp: 858

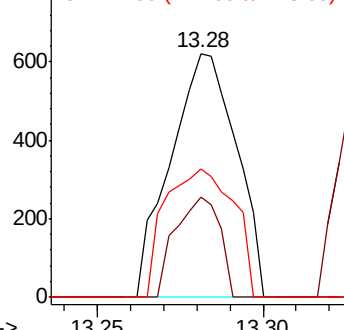
Ion	Ratio	Lower	Upper
146	100		
111	27.6	19.8	59.3
148	54.5	32.0	96.2



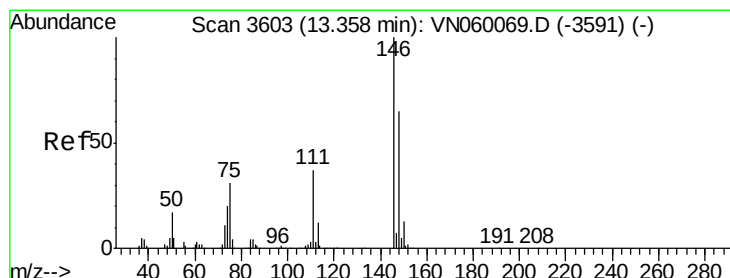
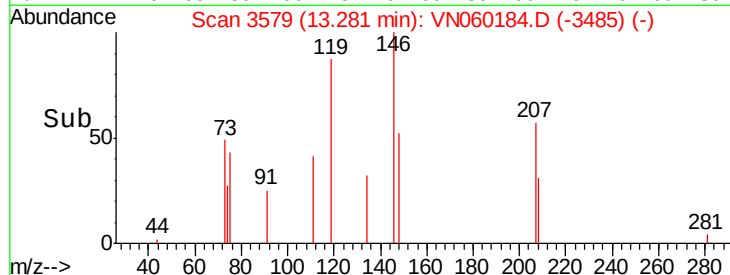
Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



Time-->



#88

1,4-Dichlorobenzene

Concen: 0.262 ug/l

RT: 13.28 min Scan# 3579

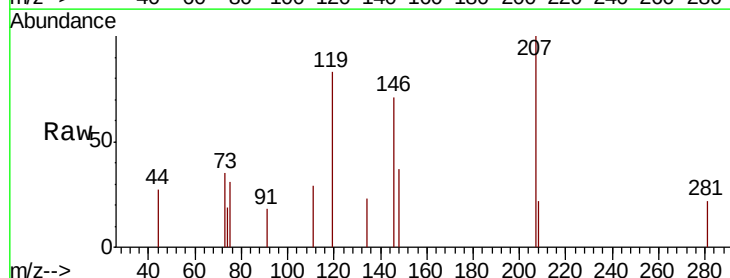
Delta R.T. -0.08 min

Lab File: VN060184.D

Acq: 21 Feb 2020 12:52

Tgt Ion:146 Resp: 858

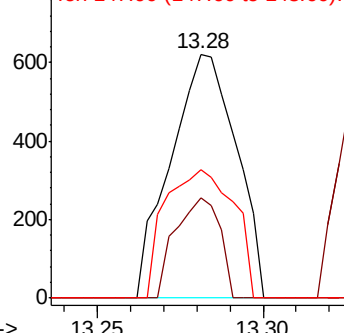
Ion	Ratio	Lower	Upper
146	100		
111	27.6	18.9	56.5
148	54.5	32.0	96.0



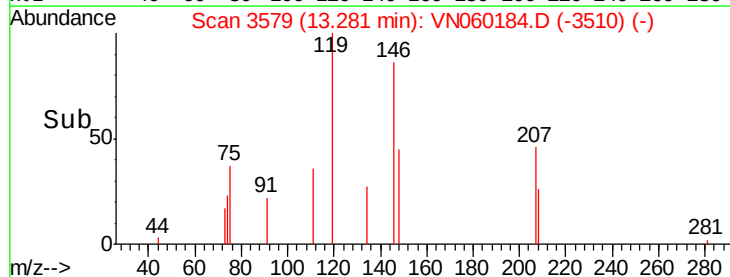
Abundance Ion 145.90 (145.60 to 146.60): V

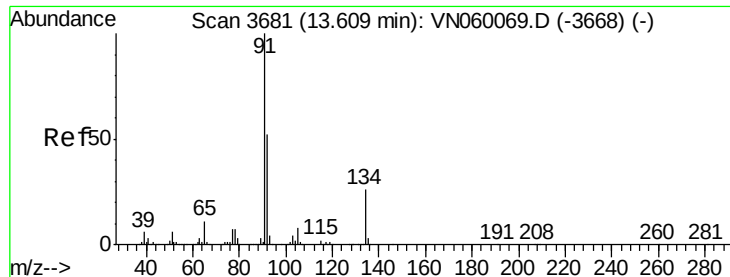
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



Time-->

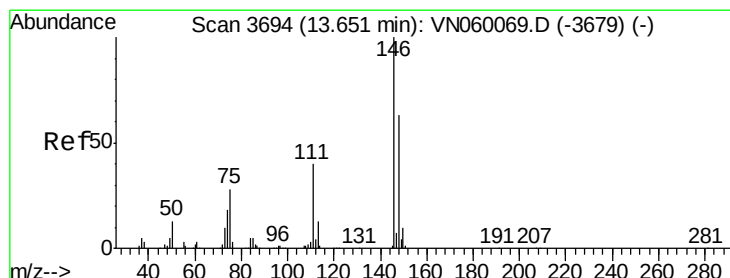
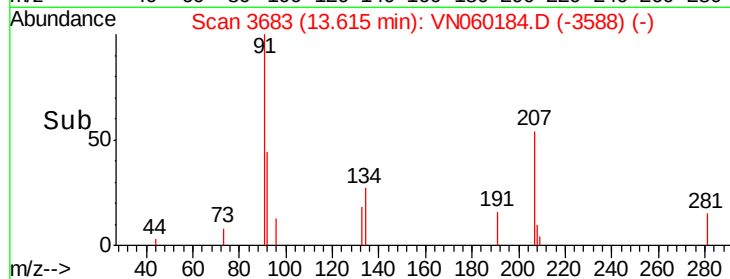
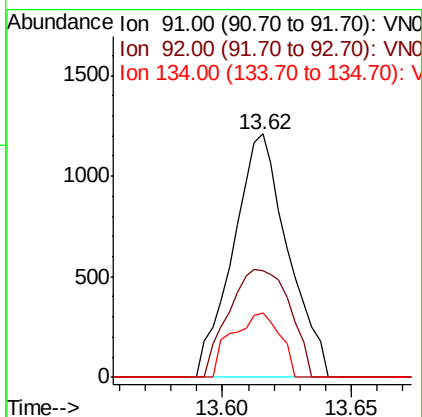
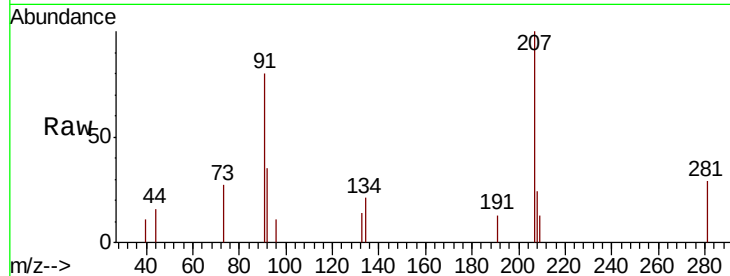




#89
n-Butylbenzene
Concen: 0.310 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.01 min
Lab File: VN060184.D
Acq: 21 Feb 2020 12:52

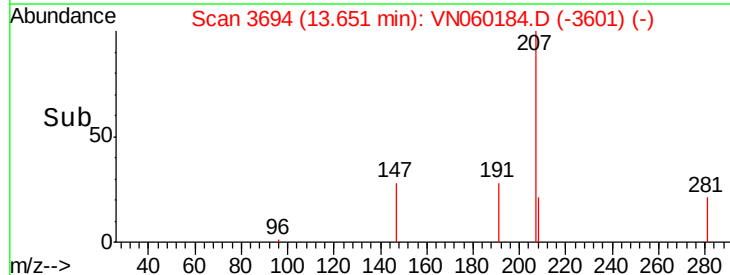
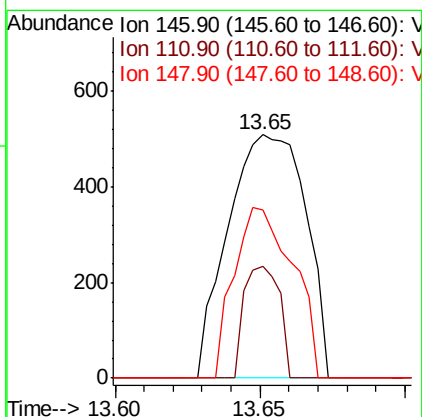
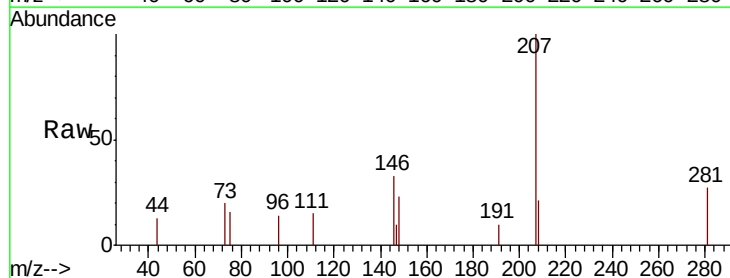
Instrument :
MSVOA_N
ClientSampled :

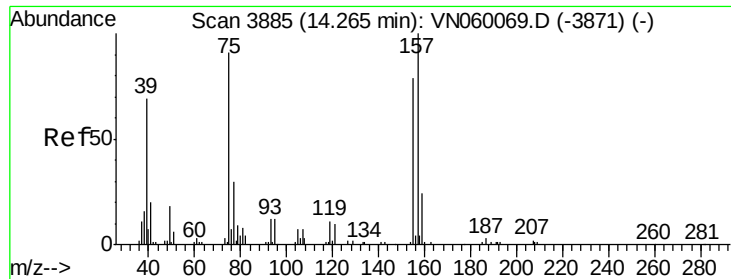
Tot Ion: 91 Resp: 1794
Ion Ratio Lower Upper
91 100
92 49.3 26.1 78.2
134 23.4 13.1 39.3



#91
1,2-Dichlorobenzene
Concen: 0.294 ug/l
RT: 13.65 min Scan# 3694
Delta R.T. 0.00 min
Lab File: VN060184.D
Acq: 21 Feb 2020 12:52

Tgt Ion: 146 Resp: 943
Ion Ratio Lower Upper
146 100
111 21.1 20.1 60.2
148 53.3 31.9 95.5





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.26 min Scan# 3885

Delta R.T. 0.00 min

Lab File: VN060184.D

Acq: 21 Feb 2020 12:52

Instrument :

MSVOA_N

ClientSampled :

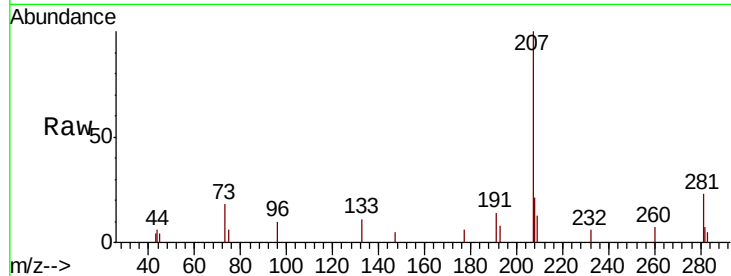
Tot Ion: 75 Resp: 260

Ion Ratio Lower Upper

75 100

155 0.0 43.0 129.0#

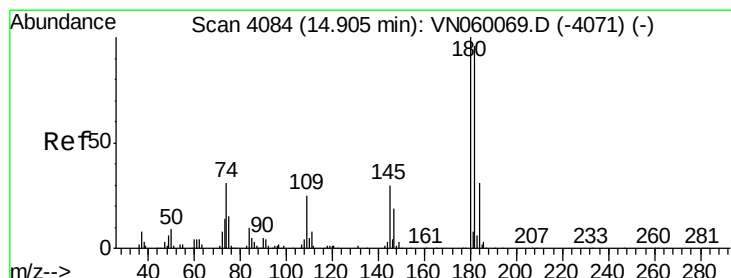
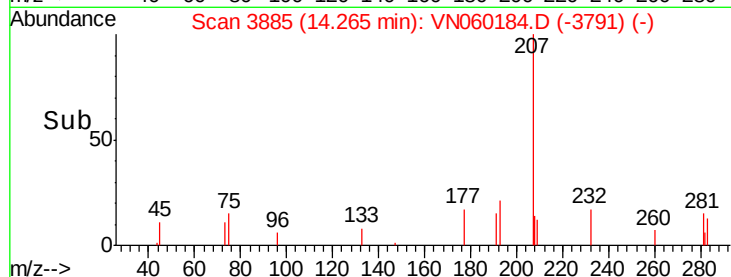
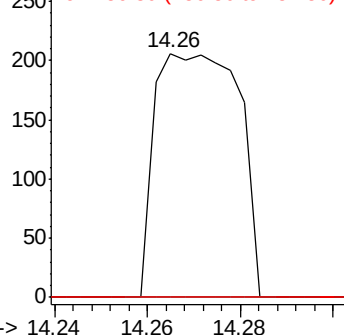
157 0.0 54.9 164.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#93

1,2,4-Trichlorobenzene

Concen: 0.998 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.01 min

Lab File: VN060184.D

Acq: 21 Feb 2020 12:52

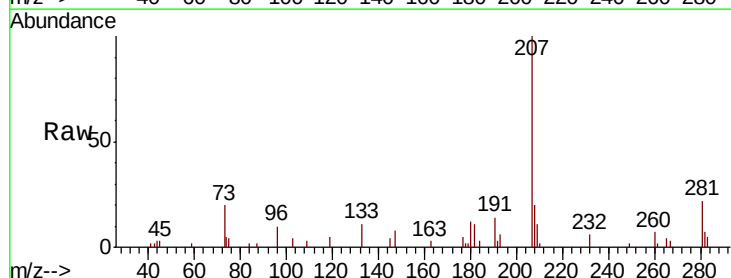
Tgt Ion: 180 Resp: 1883

Ion Ratio Lower Upper

180 100

182 90.2 47.9 143.8

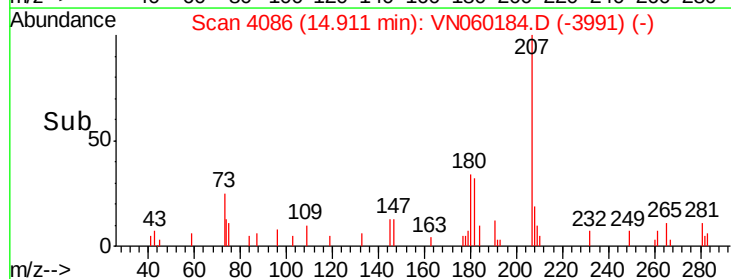
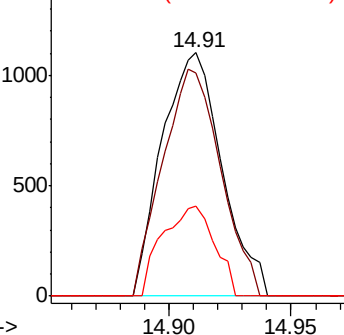
145 32.0 15.2 45.5

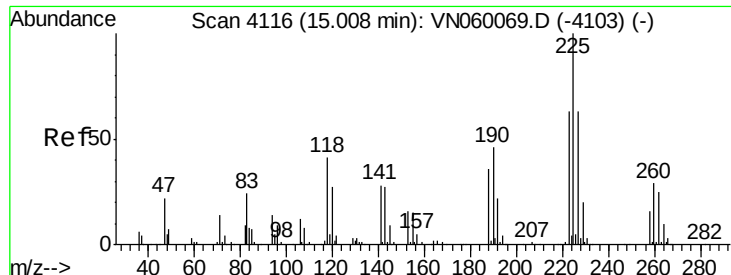


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.428 ug/l

RT: 15.00 min Scan# 4115

Delta R.T. -0.00 min

Lab File: VN060184.D

Acq: 21 Feb 2020 12:52

Instrument :

MSVOA_N

ClientSampled :

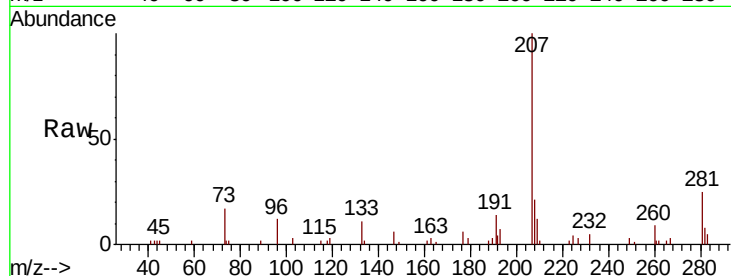
Tot Ion:225 Resp: 472

Ion Ratio Lower Upper

225 100

223 63.3 31.5 94.5

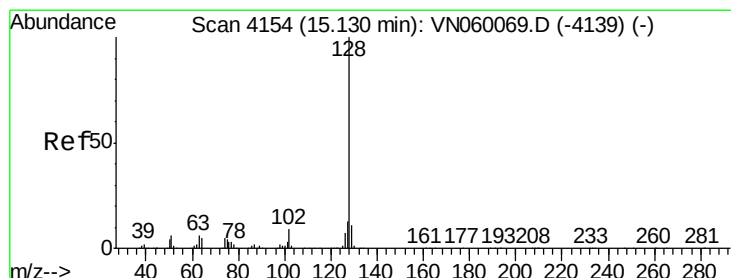
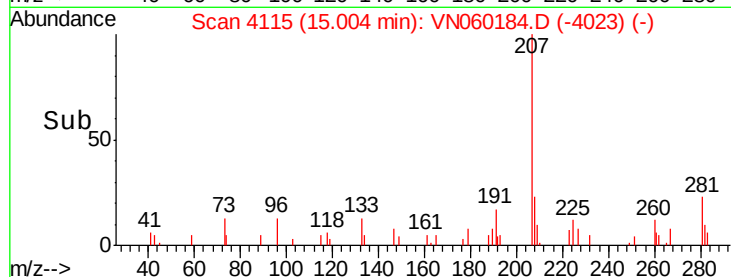
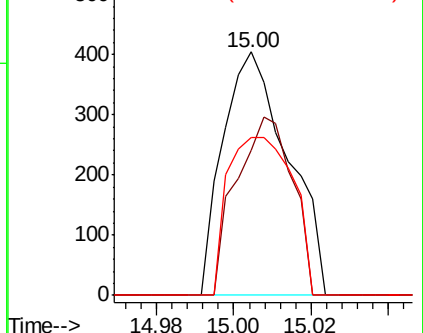
227 65.0 31.8 95.4



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 1.513 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060184.D

Acq: 21 Feb 2020 12:52

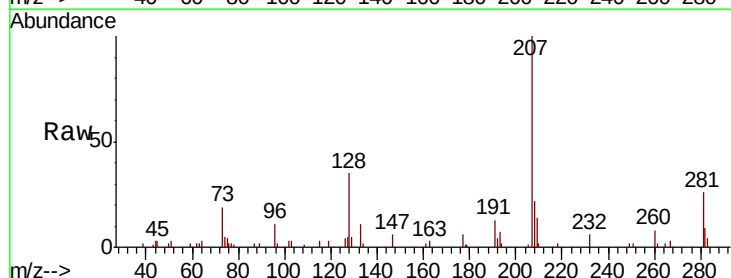
Tgt Ion:128 Resp: 7709

Ion Ratio Lower Upper

128 100

127 13.1 10.3 15.5

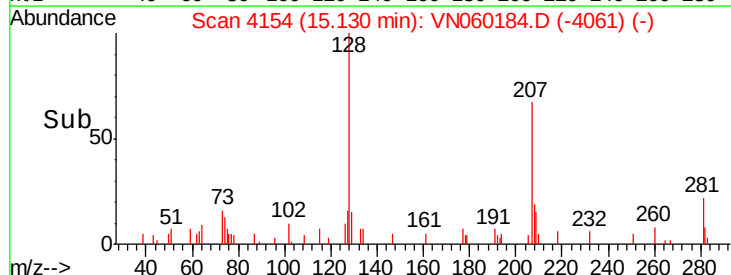
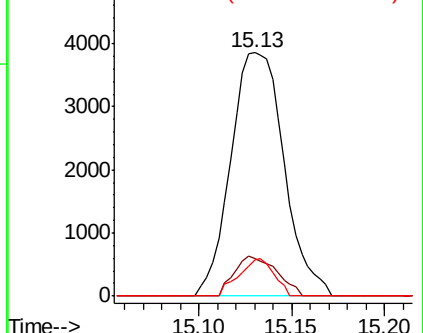
129 10.0 8.6 13.0

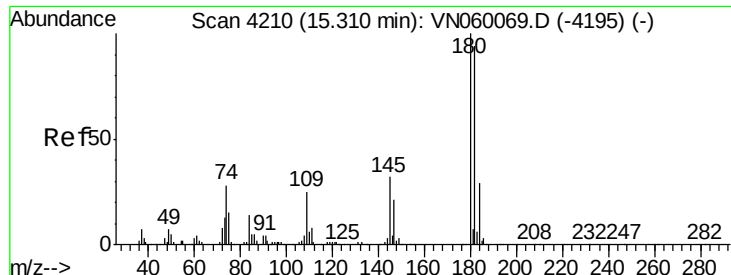


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 1.216 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN060184.D
 Acq: 21 Feb 2020 12:52

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 2283
 Ion Ratio Lower Upper
 180 100
 182 102.6 47.5 142.5
 145 34.9 16.1 48.3

