

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012920\
 Data File : VN059905.D
 Acq On : 29 Jan 2020 12:27
 Operator : JC/MD
 Sample : PB126412TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 30 00:01:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	220119	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	331171	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	298674	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	125371	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	115580	47.28	ug/l	0.00
Spiked Amount						
			Recovery	=	94.56%	
35) Dibromofluoromethane	7.57	113	97919	49.58	ug/l	0.00
Spiked Amount						
			Recovery	=	99.16%	
50) Toluene-d8	10.08	98	392367	51.28	ug/l	0.00
Spiked Amount						
			Recovery	=	102.56%	
62) 4-Bromofluorobenzene	12.40	95	131909	47.82	ug/l	0.00
Spiked Amount						
			Recovery	=	95.64%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	3781	Below Cal		94
18) Methyl Acetate	4.30	43	1911	0.669	ug/l #	72
20) Methylene Chloride	4.52	84	14845	5.562	ug/l	87
31) Cyclohexane	7.64	56	4191	1.159	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14864	5.154	ug/l #	50
38) Carbon Tetrachloride	7.64	117	19960	6.362	ug/l #	15
43) Isopropyl Acetate	8.14	43	43076	9.259	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	728	0.342	ug/l #	44
48) Methyl methacrylate	9.17	41	2325	1.117	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3049	1.134	ug/l	95
54) cis-1,3-Dichloropropene	9.89	75	20261	5.700	ug/l #	58
57) 1,3-Dichloropropane	10.75	76	3468	1.015	ug/l #	42
59) 2-Hexanone	10.75	43	44090	22.252	ug/l #	57
74) N-amyl acetate	12.03	43	1438	0.403	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	67268	31.883	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	1837	0.238	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	67268	68.468	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.26	75	61	Below Cal	#	6
93) 1,2,4-Trichlorobenzene	14.91	180	1278	0.532	ug/l	93
94) Hexachlorobutadiene	15.01	225	316	0.239	ug/l #	63
95) Naphthalene	15.13	128	5865	0.858	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.31	180	1785	0.763	ug/l	90

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059905.D

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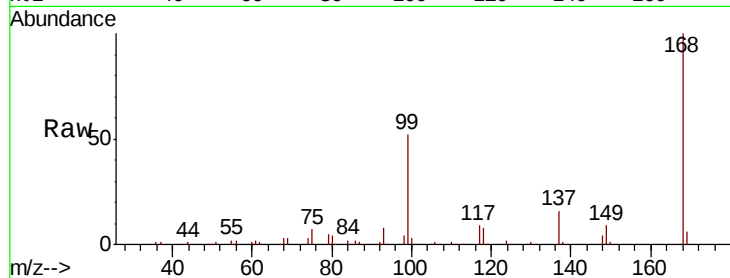
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 220119

Ion Ratio Lower Upper

168 100

99 51.9 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

100000

80000

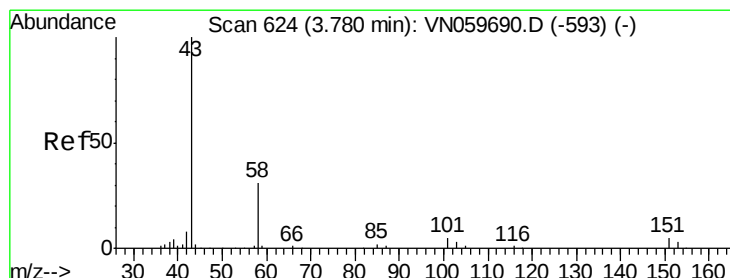
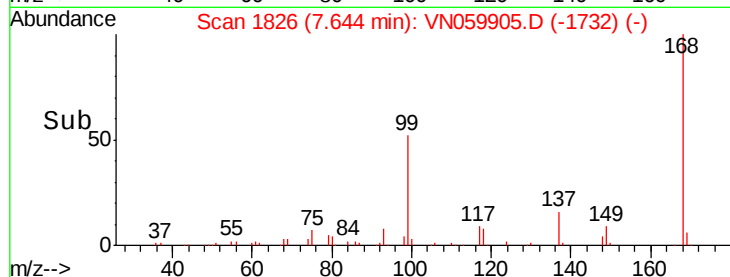
60000

40000

20000

0

Time-->



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN059905.D

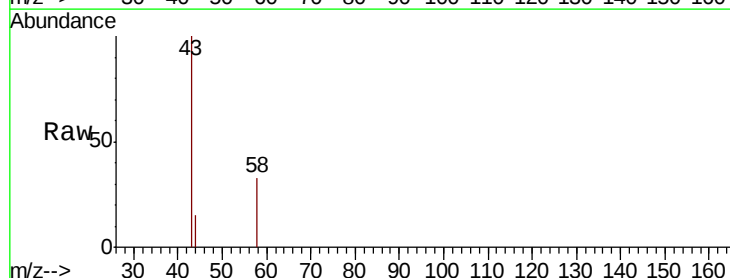
Acq: 29 Jan 2020 12:27

Tgt Ion: 43 Resp: 3781

Ion Ratio Lower Upper

43 100

58 32.5 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

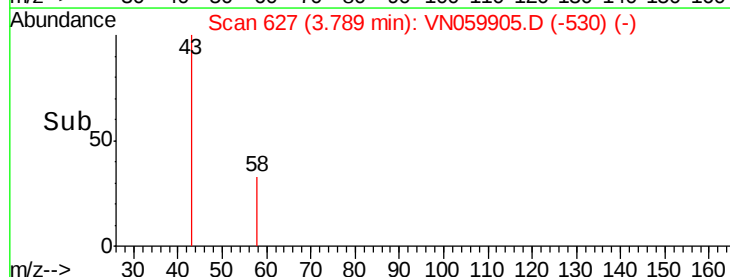
1500

1000

500

0

Time-->

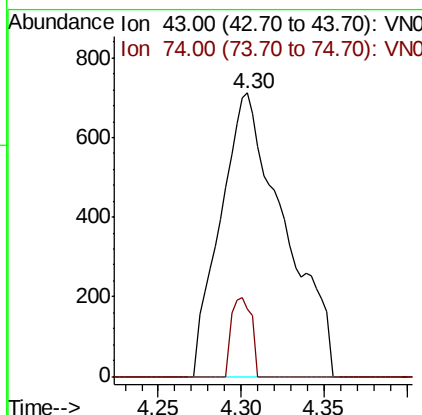
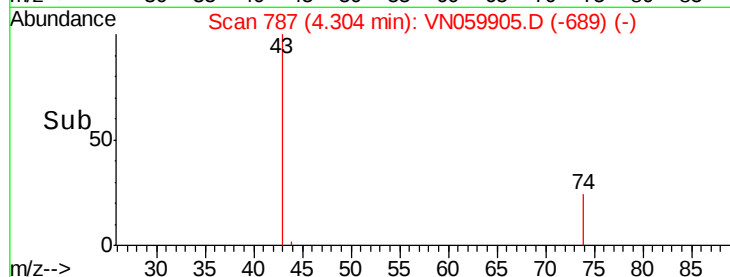
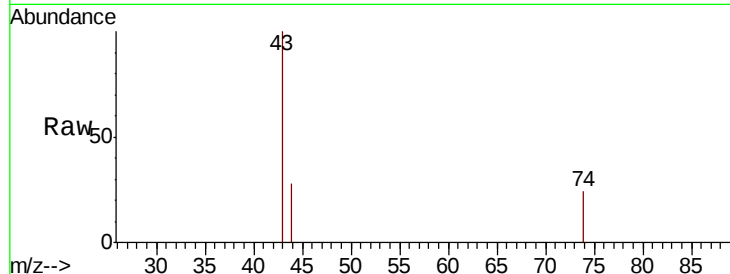




#18
Methyl Acetate
Concen: 0.669 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.02 min
Lab File: VN059905.D
Acq: 29 Jan 2020 12:27

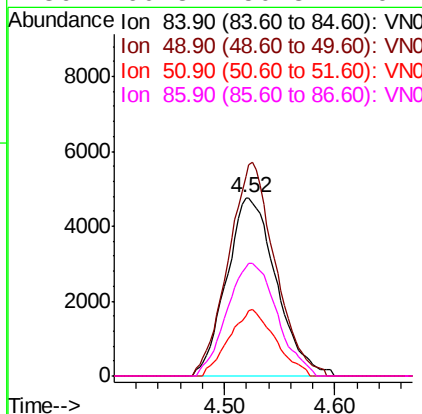
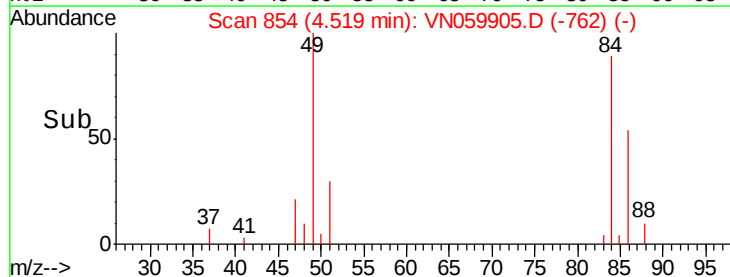
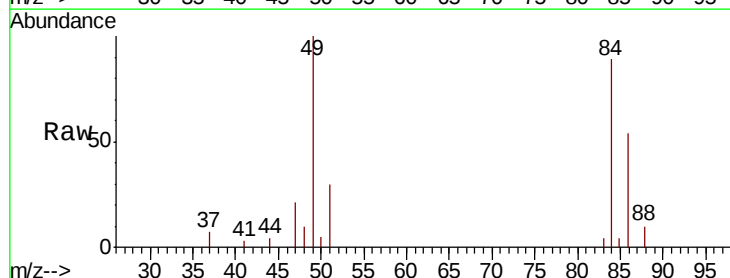
Instrument :
MSVOA_N
ClientSampleId :

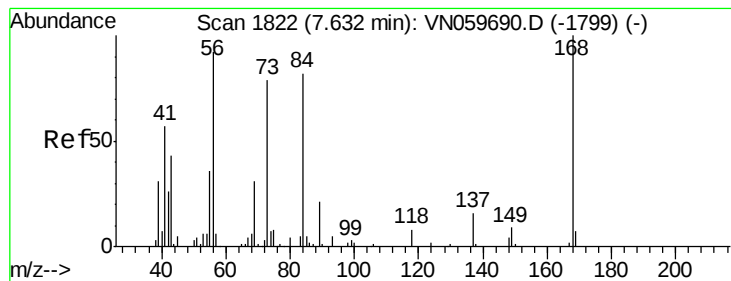
Tot Ion: 43 Resp: 1911
Ion Ratio Lower Upper
43 100
74 8.8 17.5 26.3#



#20
Methylene Chloride
Concen: 5.562 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN059905.D
Acq: 29 Jan 2020 12:27

Tgt Ion: 84 Resp: 14845
Ion Ratio Lower Upper
84 100
49 112.1 106.6 160.0
51 33.7 31.9 47.9
86 60.8 50.8 76.2





#31

Cyclohexane

Concen: 1.159 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN059905.D

Acq: 29 Jan 2020 12:27

Instrument :
MSVOA_N
ClientSampled :

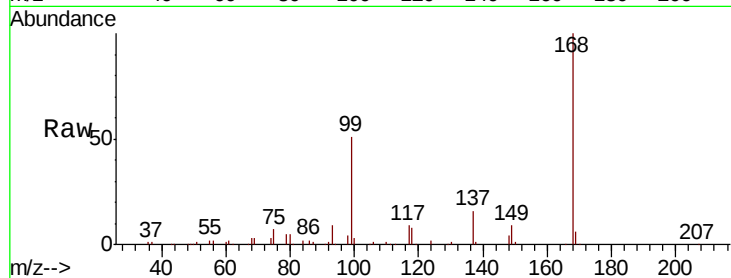
Tot Ion: 56 Resp: 4191

Ion Ratio Lower Upper

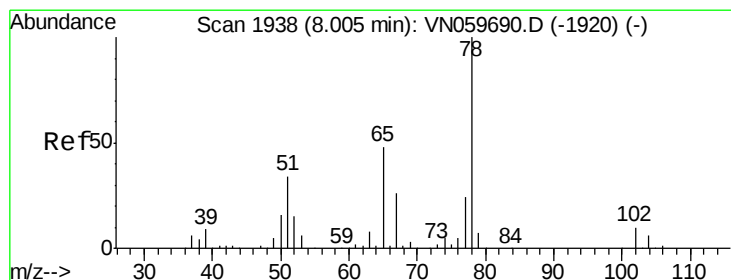
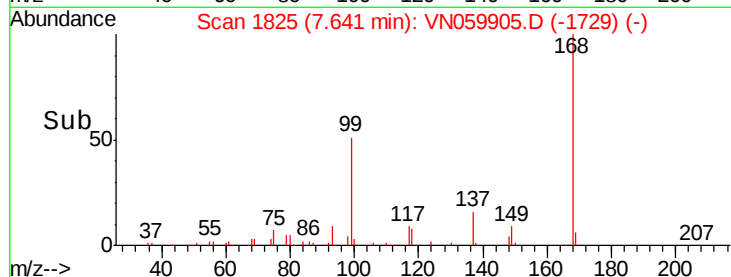
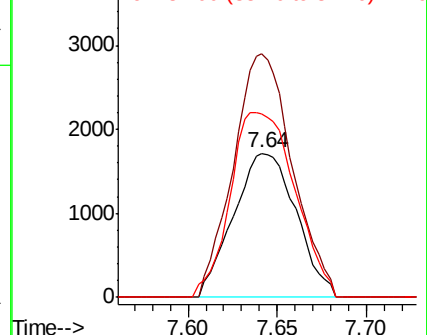
56 100

69 169.2 26.5 39.7#

84 127.8 65.3 97.9#



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: 47.282 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN059905.D

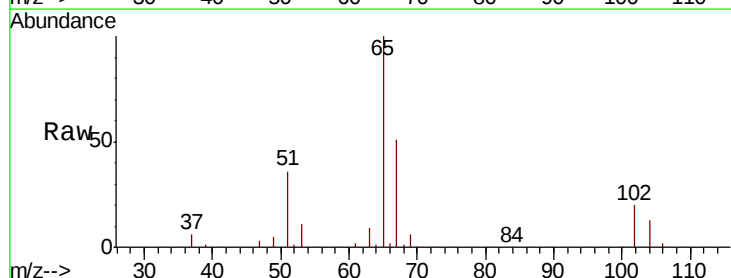
Acq: 29 Jan 2020 12:27

Tgt Ion: 65 Resp: 115580

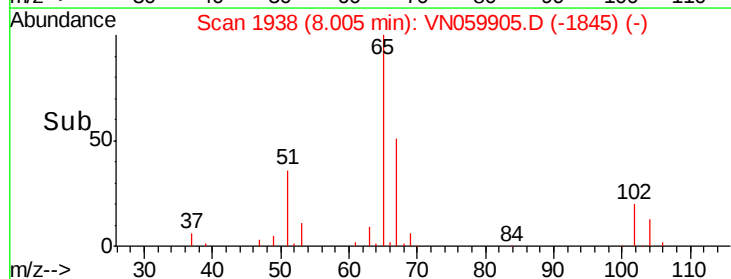
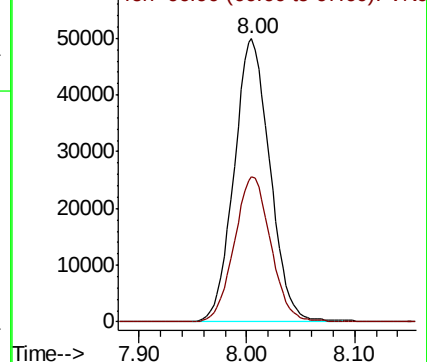
Ion Ratio Lower Upper

65 100

67 51.9 0.0 103.0



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

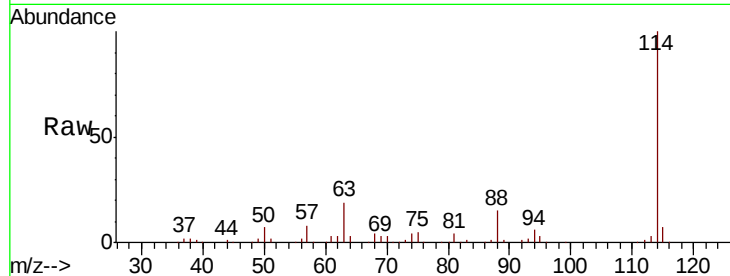




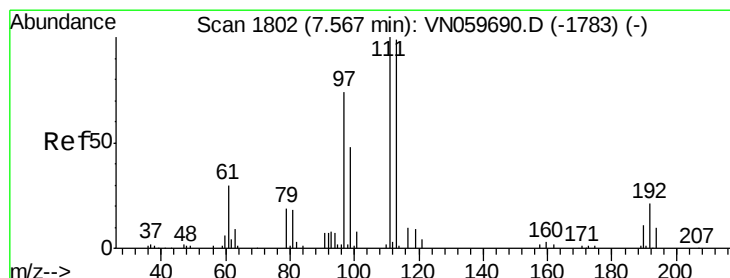
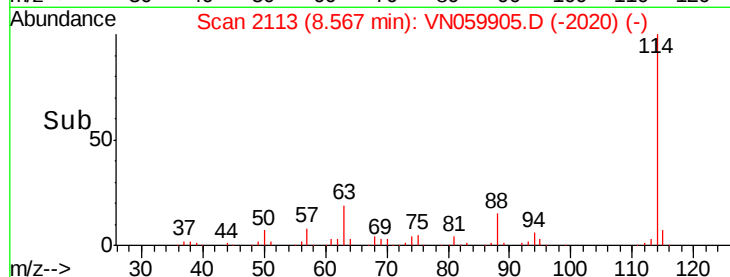
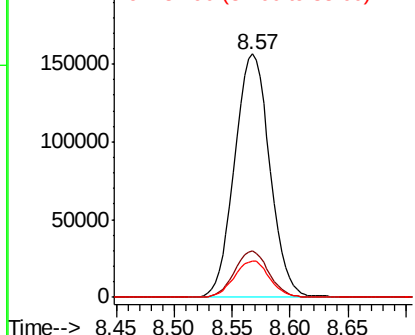
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059905.D
 Acq: 29 Jan 2020 12:27

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 331171
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 43.6
 88 14.9 0.0 31.4

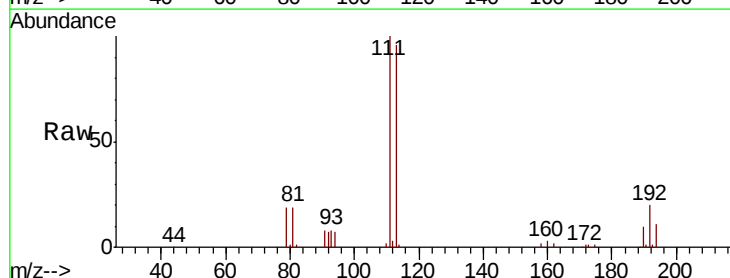


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

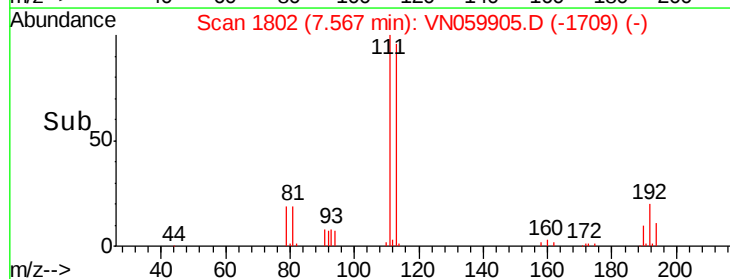
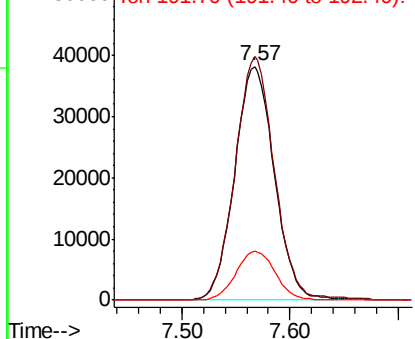


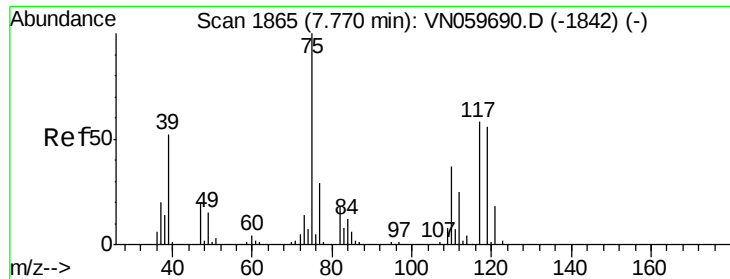
#35
 Dibromofluoromethane
 Concen: 49.581 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059905.D
 Acq: 29 Jan 2020 12:27

Tgt Ion:113 Resp: 97919
 Ion Ratio Lower Upper
 113 100
 111 103.2 83.5 125.3
 192 20.7 15.4 23.2



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

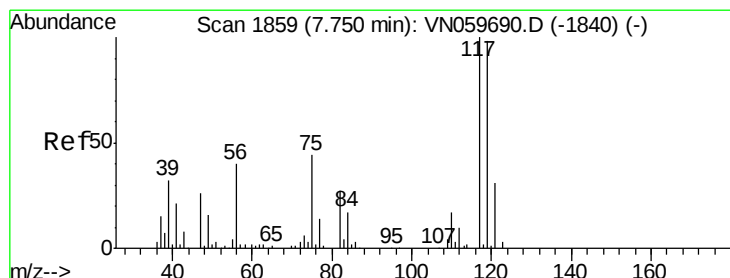
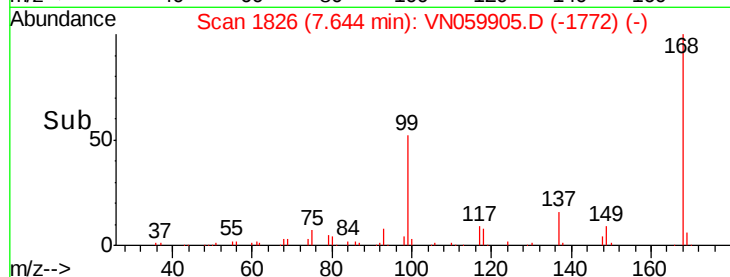
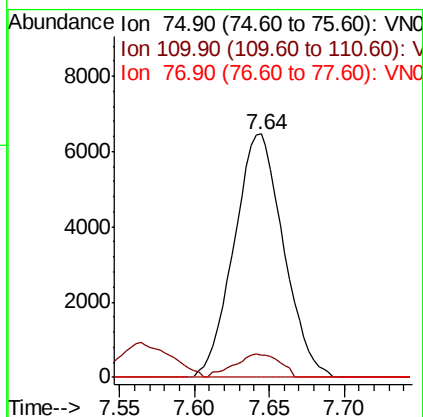
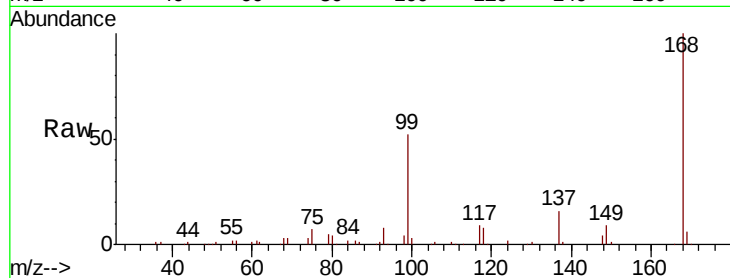




#36
 1,1-Dichloropropene
 Concen: 5.154 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059905.D
 Acq: 29 Jan 2020 12:27

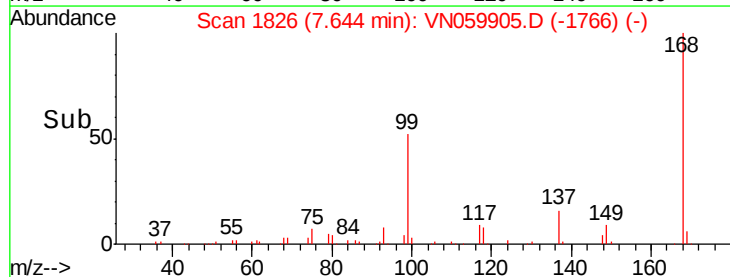
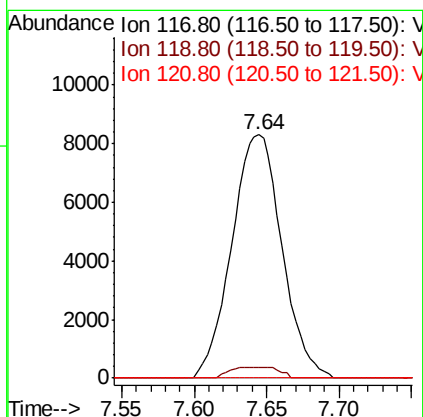
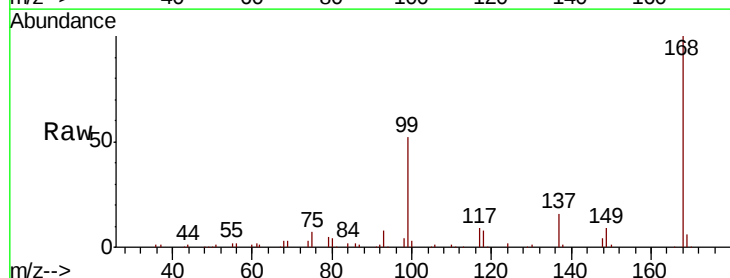
Instrument :
 MSVOA_N
 ClientSampled :

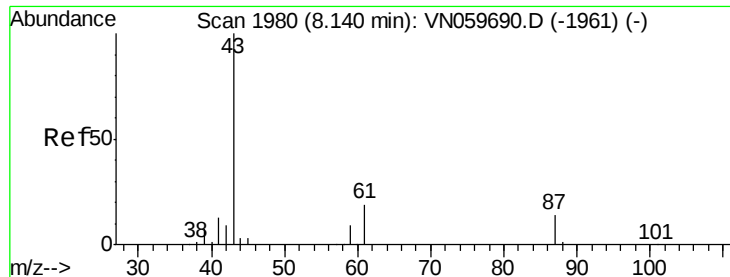
Tot Ion	75	Resp	14864
Ion Ratio	Lower	Upper	
75	100		
110	8.7	16.6	49.7#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 6.362 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN059905.D
 Acq: 29 Jan 2020 12:27

Tgt Ion	117	Resp	19960
Ion Ratio	Lower	Upper	
117	100		
119	4.1	76.5	114.7#
121	0.0	25.1	37.7#





#43

Isopropyl Acetate

Concen: 9.259 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059905.D

Acq: 29 Jan 2020 12:27

Instrument :

MSVOA_N

ClientSampleId :

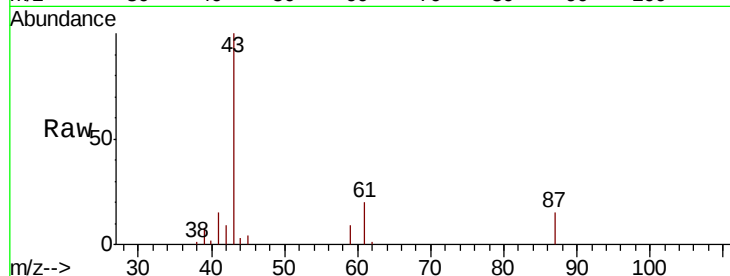
Tot Ion: 43 Resp: 43076

Ion Ratio Lower Upper

43 100

61 20.9 20.2 30.2

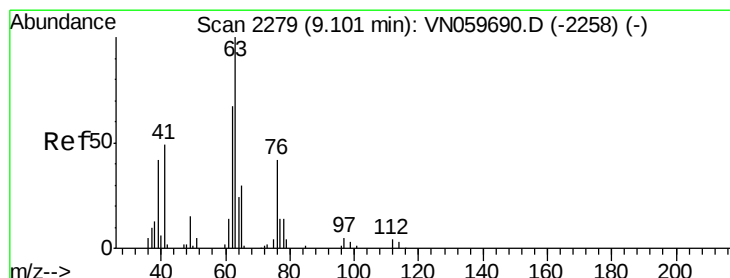
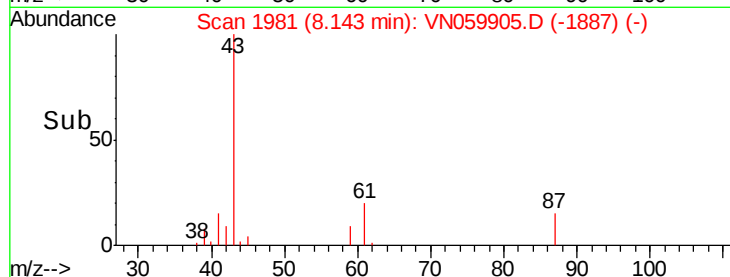
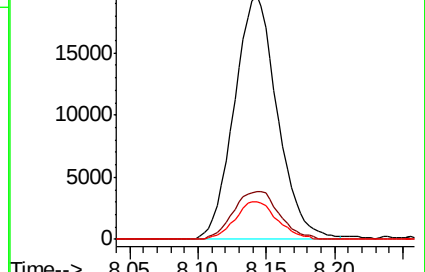
87 15.2 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VN059905.D (-1961) (-)

Ion 61.00 (60.70 to 61.70): VN059905.D (-1961) (-)

Ion 87.00 (86.70 to 87.70): VN059905.D (-1961) (-)



#45

1,2-Dichloropropane

Concen: 0.342 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN059905.D

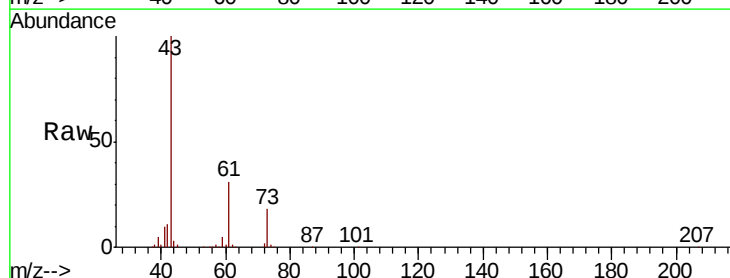
Acq: 29 Jan 2020 12:27

Tgt Ion: 63 Resp: 728

Ion Ratio Lower Upper

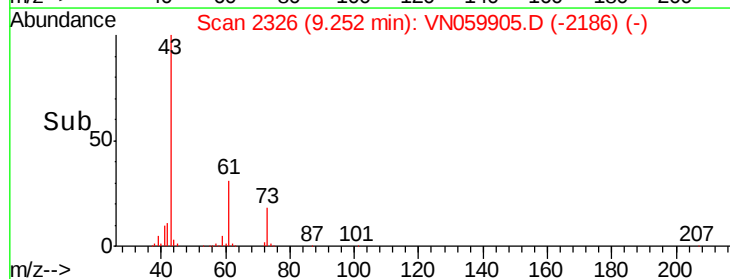
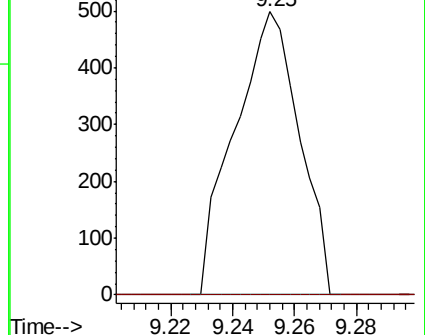
63 100

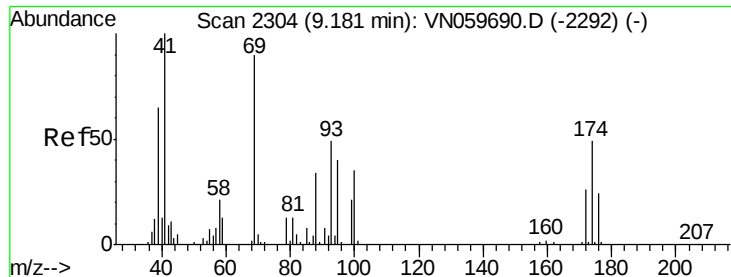
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN059905.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN059905.D (-2186) (-)

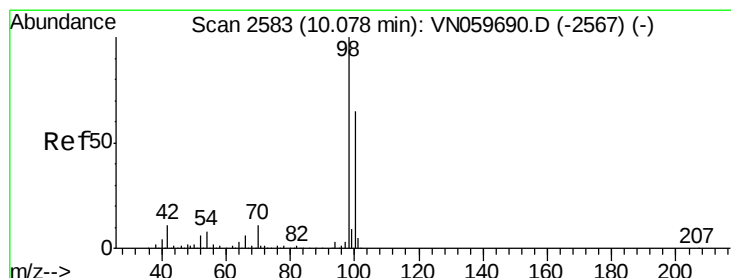
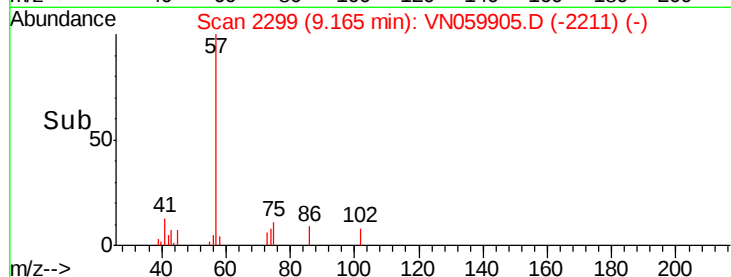
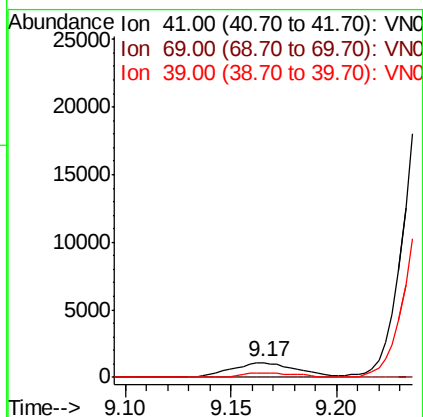
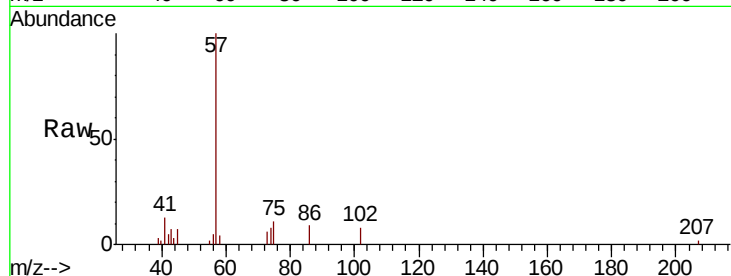




#48
Methvl methacrylate
Concen: 1.117 ug/l
RT: 9.17 min Scan# 2299
Delta R.T. -0.02 min
Lab File: VN059905.D
Acq: 29 Jan 2020 12:27

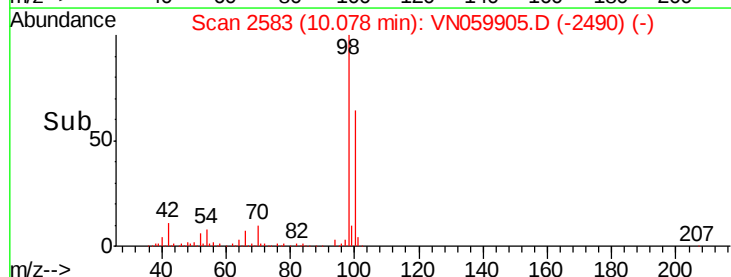
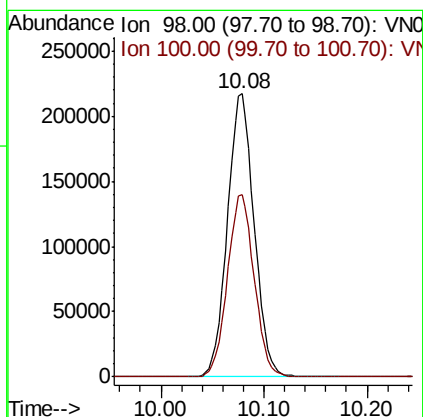
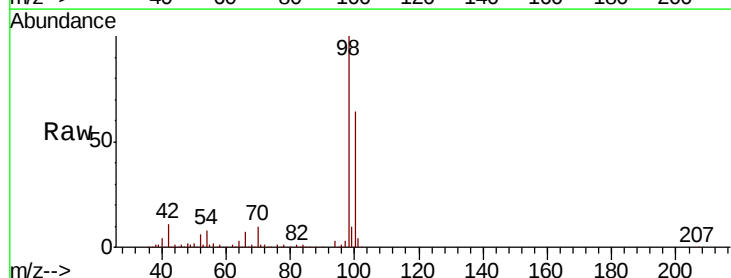
Instrument :
MSVOA_N
ClientSampled :

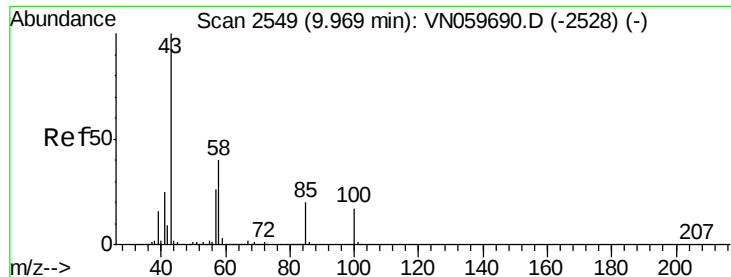
Tot Ion: 41 Resp: 2325
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#



#50
Toluene-d8
Concen: 51.278 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059905.D
Acq: 29 Jan 2020 12:27

Tgt Ion: 98 Resp: 392367
Ion Ratio Lower Upper
98 100
100 64.5 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 1.134 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN059905.D

Acq: 29 Jan 2020 12:27

Instrument :

MSVOA_N

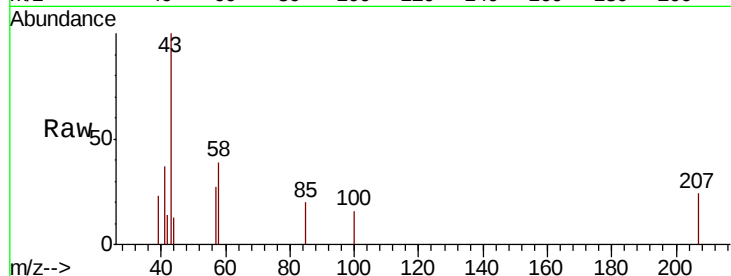
ClientSampled :

Tot Ion: 43 Resp: 3049

Ion Ratio Lower Upper

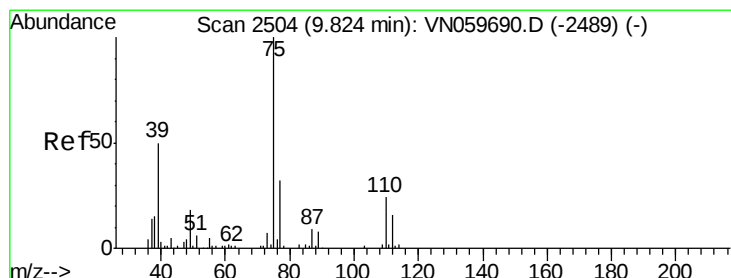
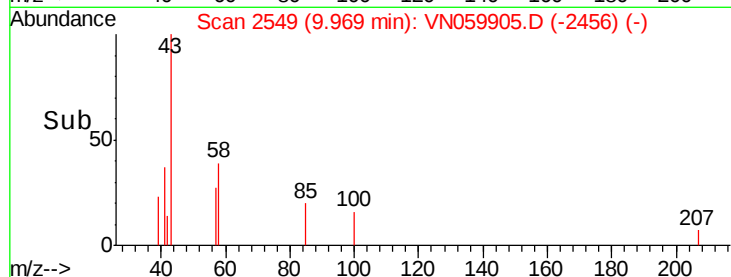
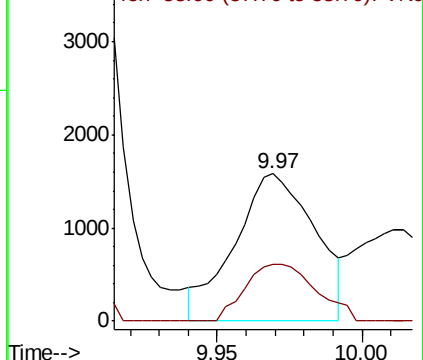
43 100

58 34.1 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.700 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN059905.D

Acq: 29 Jan 2020 12:27

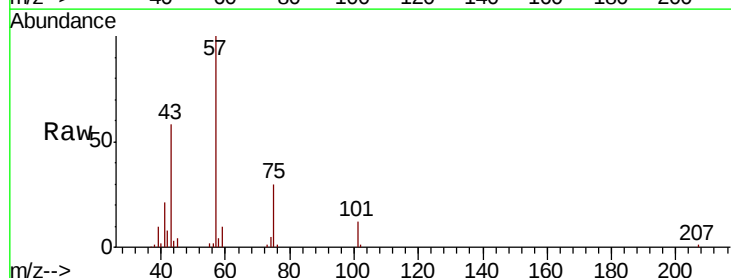
Tgt Ion: 75 Resp: 20261

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

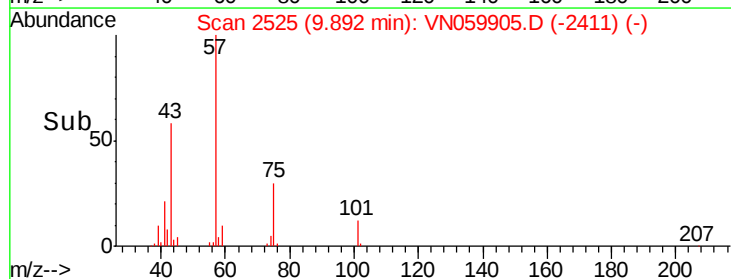
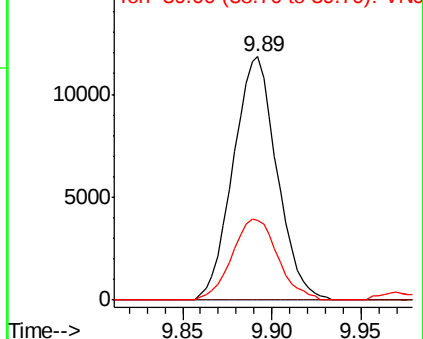
39 33.0 46.1 69.1#



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





#57

1,3-Dichloropropane

Concen: 1.015 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN059905.D

Acq: 29 Jan 2020 12:27

Instrument :

MSVOA_N

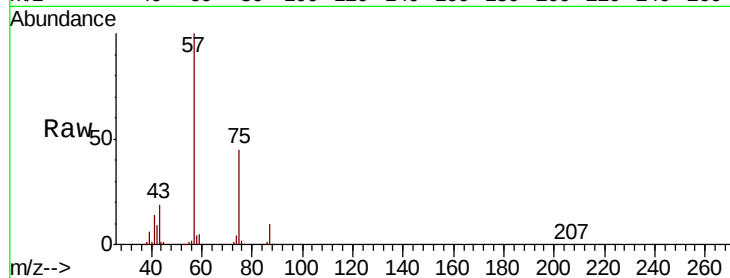
ClientSampled :

Tot Ion: 76 Resp: 3468

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

2500

2000

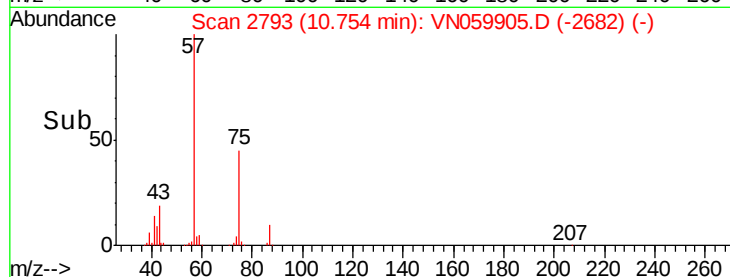
1500

1000

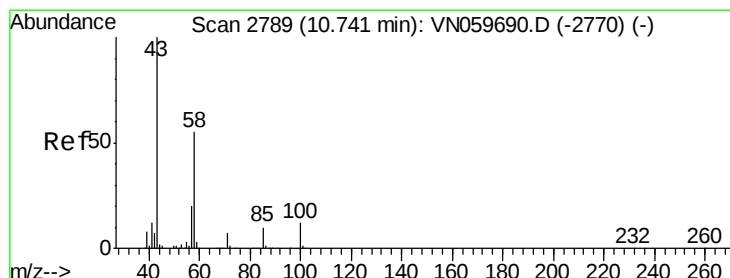
500

0

10.70 10.75 10.80



Time-->



#59

2-Hexanone

Concen: 22.252 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN059905.D

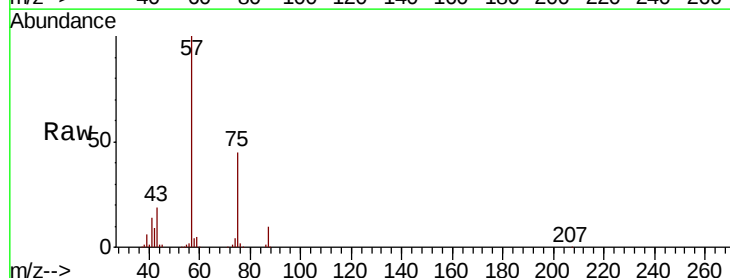
Acq: 29 Jan 2020 12:27

Tgt Ion: 43 Resp: 44090

Ion Ratio Lower Upper

43 100

58 21.7 25.8 77.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

30000

25000

20000

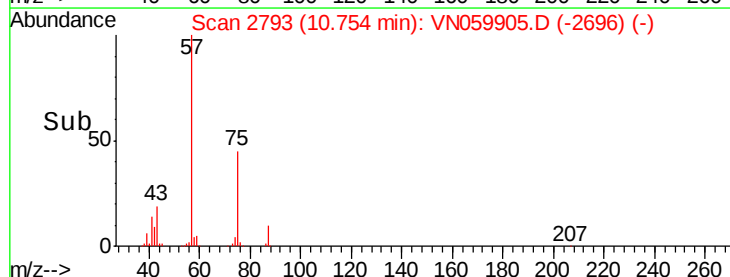
15000

10000

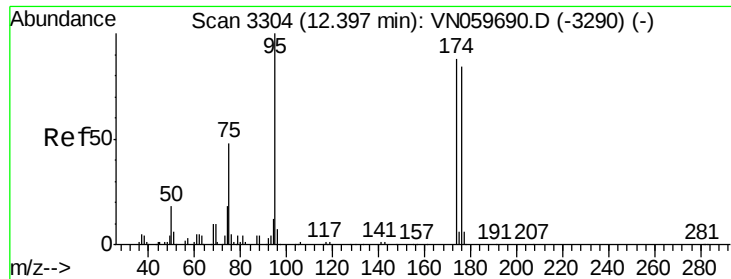
5000

0

10.70 10.75 10.80



Time-->



#62

4-Bromofluorobenzene

Concen: 47.820 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN059905.D

Acq: 29 Jan 2020 12:27

Instrument :

MSVOA_N

ClientSampled :

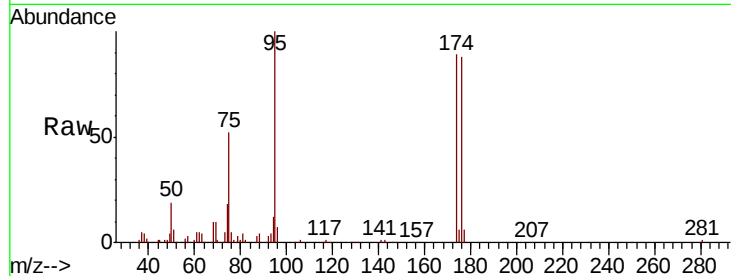
Tot Ion: 95 Resp: 131909

Ion Ratio Lower Upper

95 100

174 87.9 0.0 151.4

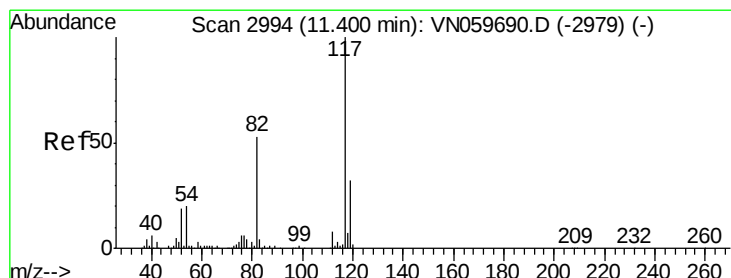
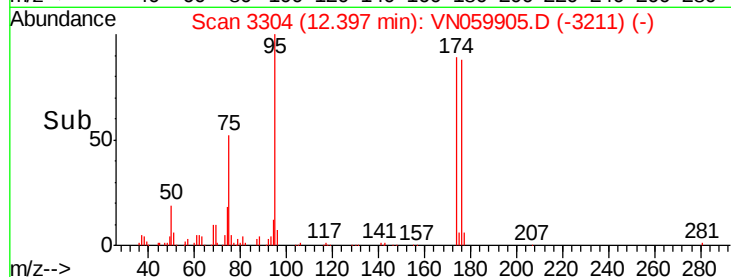
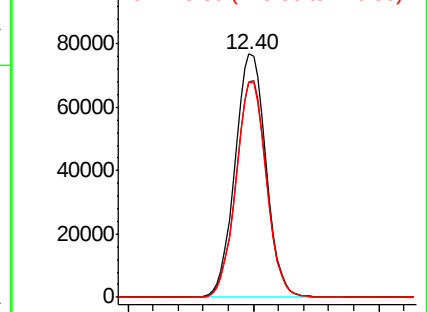
176 86.3 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN059905.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN059905.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN059905.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN059905.D

Acq: 29 Jan 2020 12:27

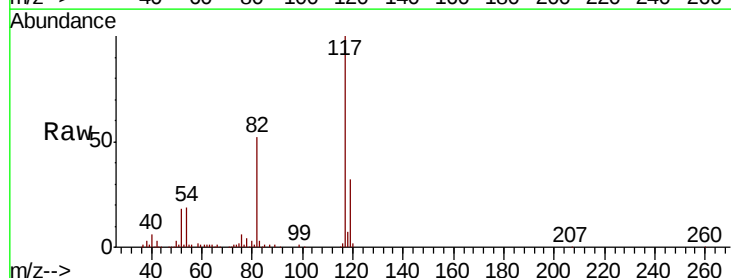
Tgt Ion: 117 Resp: 298674

Ion Ratio Lower Upper

117 100

82 51.8 45.9 68.9

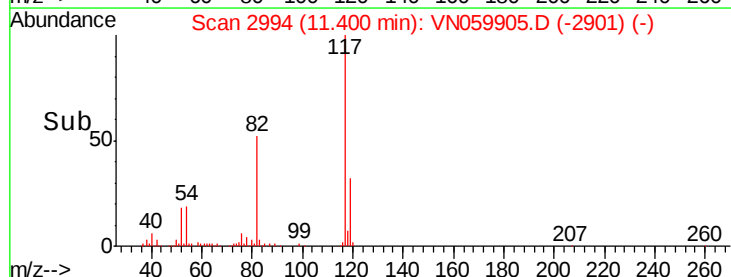
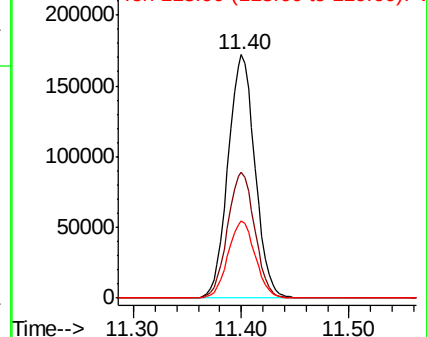
119 31.7 25.5 38.3

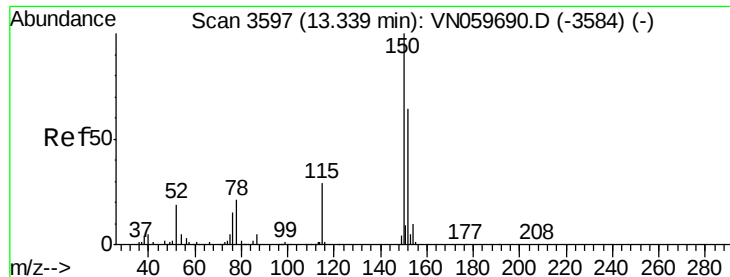


Abundance Ion 116.90 (116.60 to 117.60): VN059905.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN059905.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN059905.D (-2979) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN059905.D

Acq: 29 Jan 2020 12:27

Instrument :

MSVOA_N

ClientSampled :

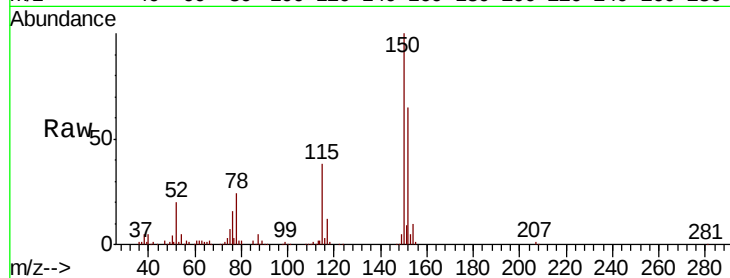
Tot Ion:152 Resp: 125371

Ion Ratio Lower Upper

152 100

115 57.4 30.3 90.9

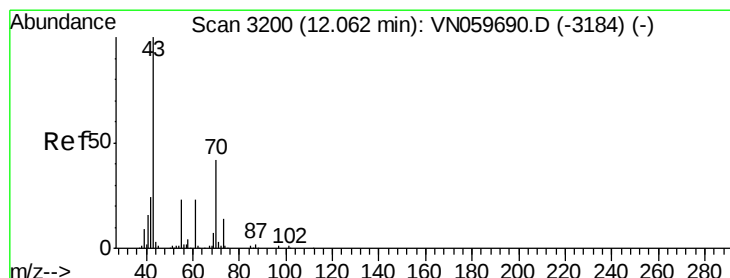
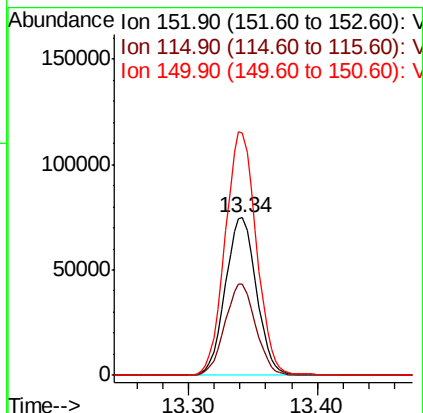
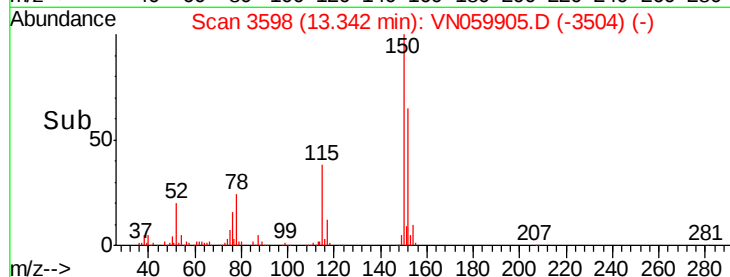
150 155.6 0.0 345.2



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-ethyl acetate

Concen: 0.403 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN059905.D

Acq: 29 Jan 2020 12:27

Tgt Ion: 43 Resp: 1438

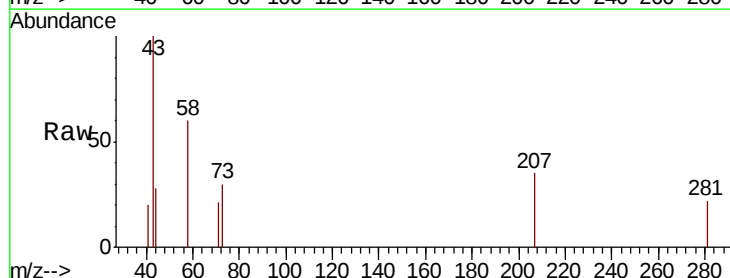
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

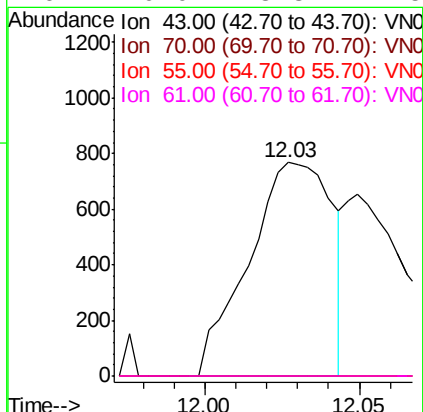
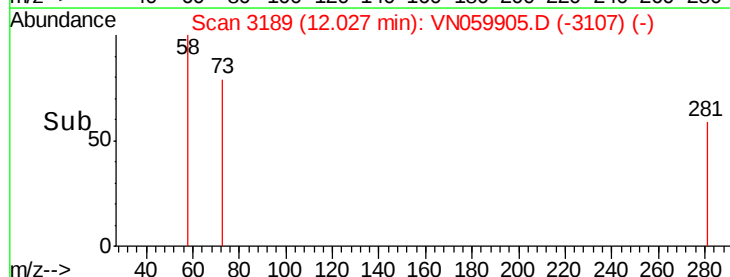


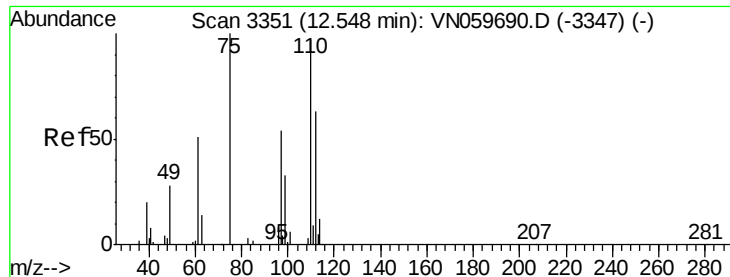
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 31.883 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059905.D

Acq: 29 Jan 2020 12:27

Instrument :

MSVOA_N

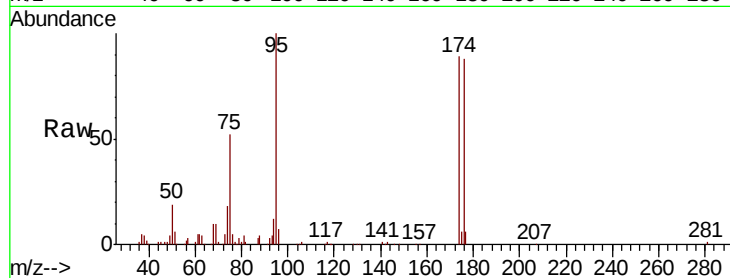
ClientSampled :

Tot Ion: 75 Resp: 67268

Ion Ratio Lower Upper

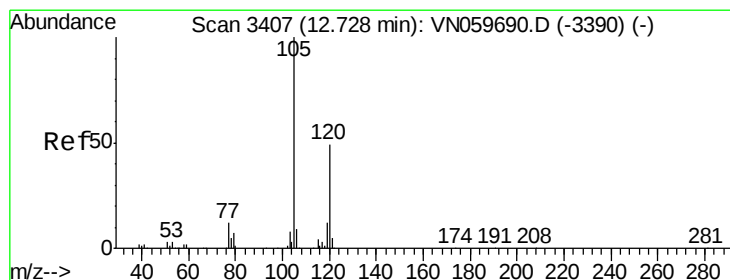
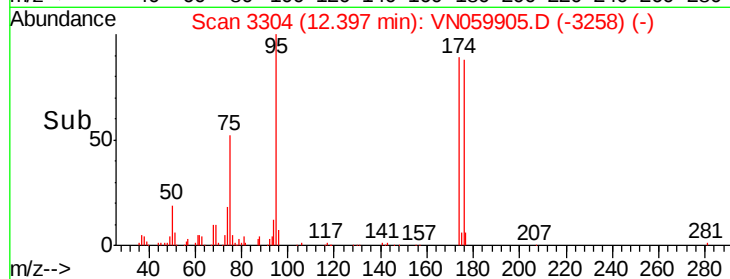
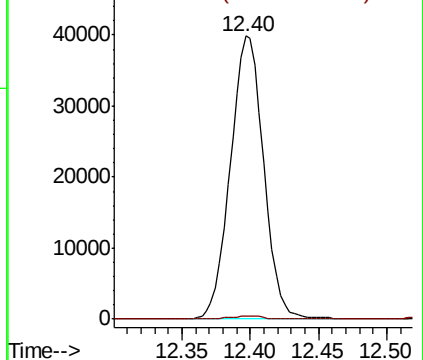
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#80

1,3,5-Trimethylbenzene

Concen: 0.238 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN059905.D

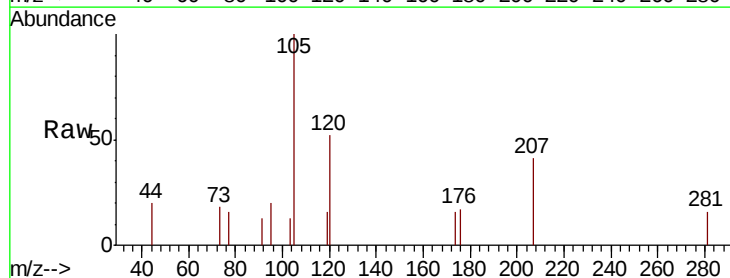
Acq: 29 Jan 2020 12:27

Tgt Ion: 105 Resp: 1837

Ion Ratio Lower Upper

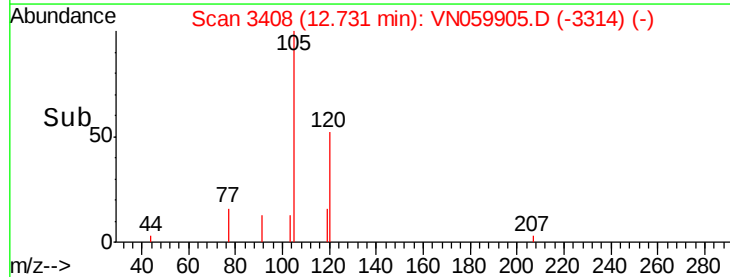
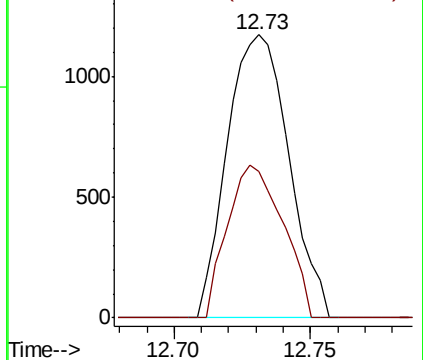
105 100

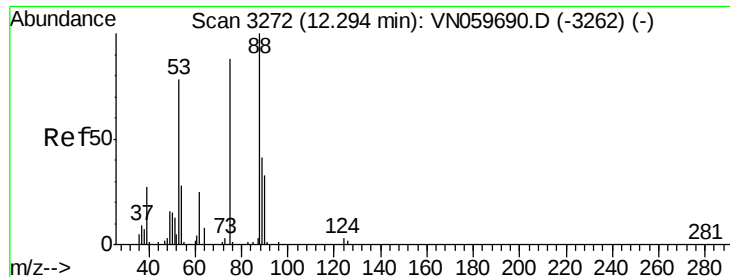
120 48.8 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

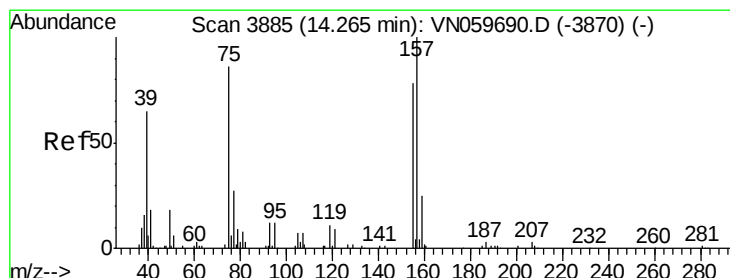
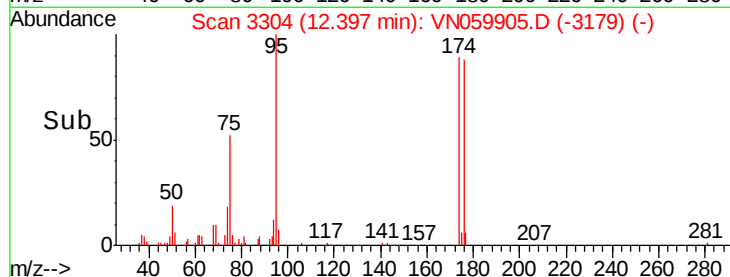
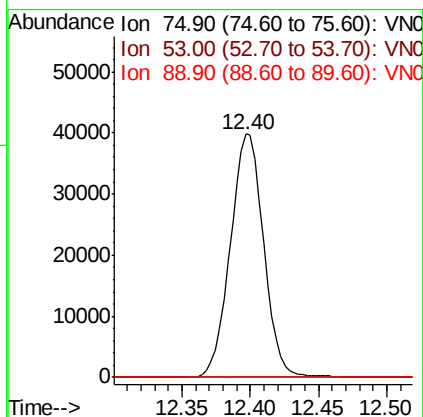
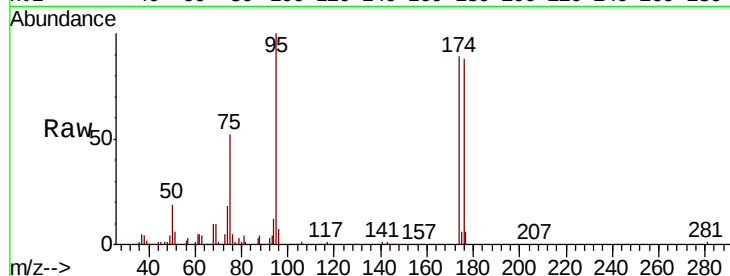




#81
trans-1,4-Dichloro-2-butene
Concen: 68.468 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN059905.D
Acq: 29 Jan 2020 12:27

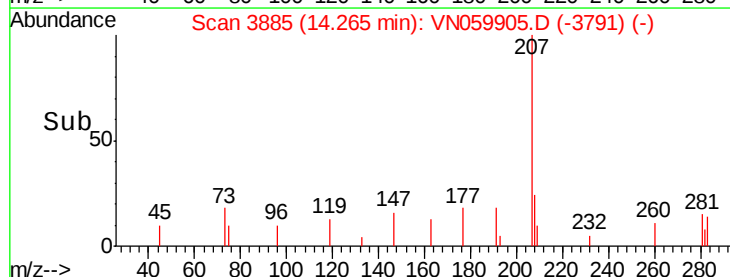
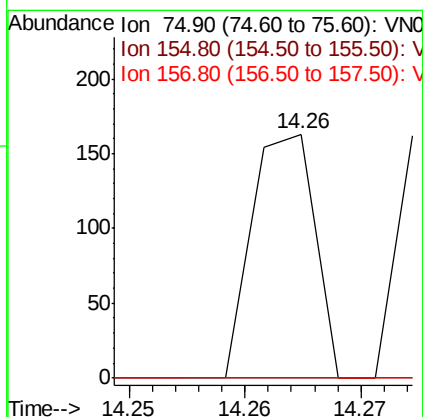
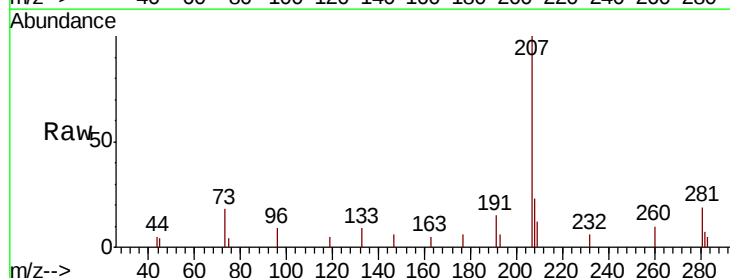
Instrument :
MSVOA_N
ClientSampled :

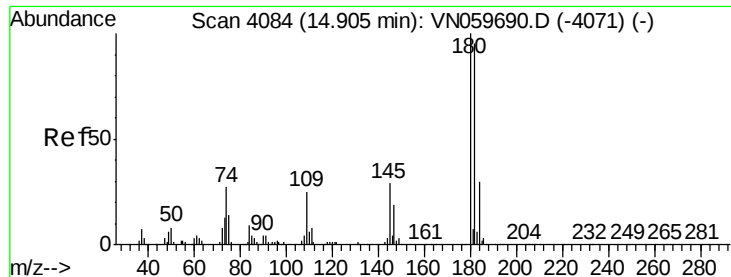
Tot Ion: 75 Resp: 67268
Ion Ratio Lower Upper
75 100
53 0.0 78.1 117.1#
89 0.0 35.4 53.2#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.26 min Scan# 3885
Delta R.T. 0.00 min
Lab File: VN059905.D
Acq: 29 Jan 2020 12:27

Tgt Ion: 75 Resp: 61
Ion Ratio Lower Upper
75 100
155 0.0 37.0 110.9#
157 0.0 48.4 145.2#

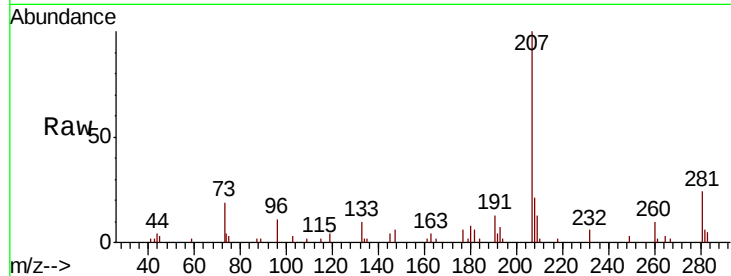




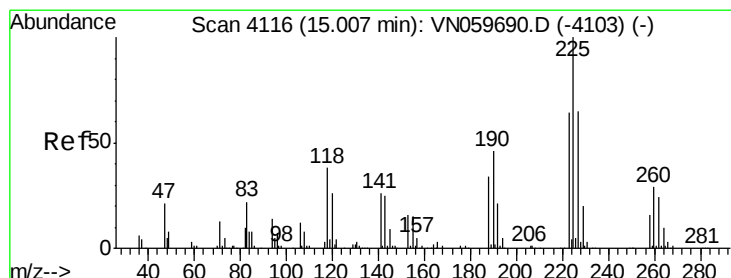
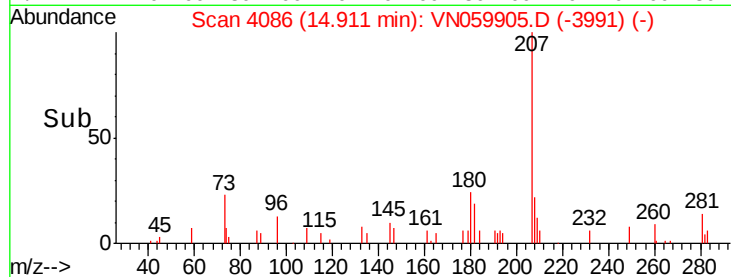
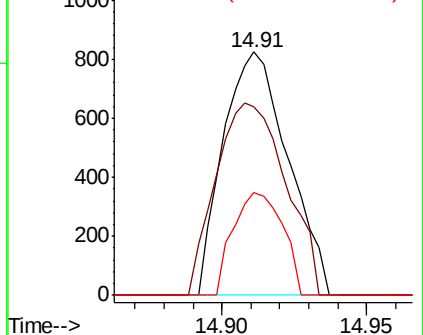
#93
 1,2,4-Trichlorobenzene
 Concen: 0.532 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.01 min
 Lab File: VN059905.D
 Acq: 29 Jan 2020 12:27

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 1278
 Ion Ratio Lower Upper
 180 100
 182 85.5 46.9 140.7
 145 32.1 15.0 45.1

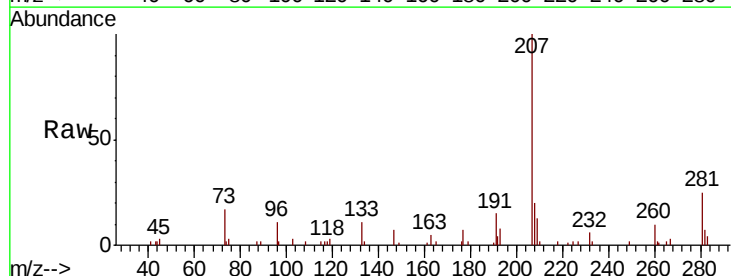


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

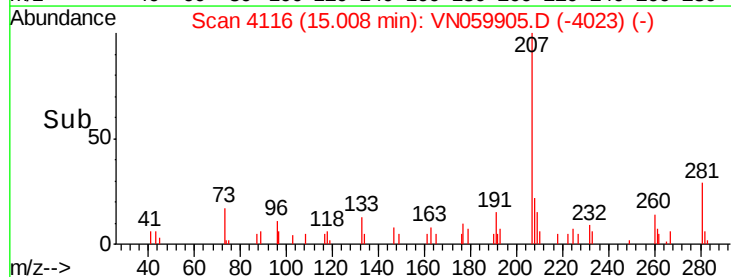
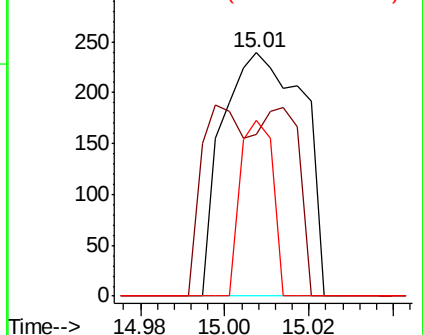


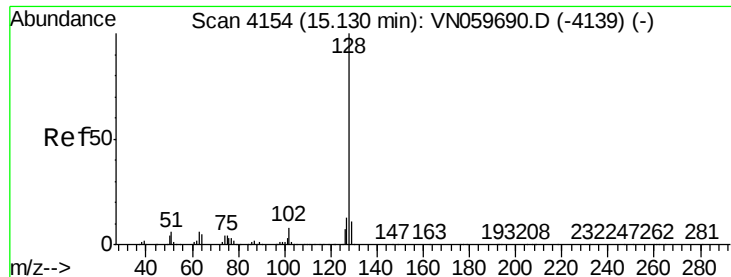
#94
 Hexachlorobutadiene
 Concen: 0.239 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN059905.D
 Acq: 29 Jan 2020 12:27

Tgt Ion:225 Resp: 316
 Ion Ratio Lower Upper
 225 100
 223 41.1 31.8 95.3
 227 29.4 32.1 96.5#



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: 0.858 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN059905.D

Acq: 29 Jan 2020 12:27

Instrument :

MSVOA_N

ClientSampled :

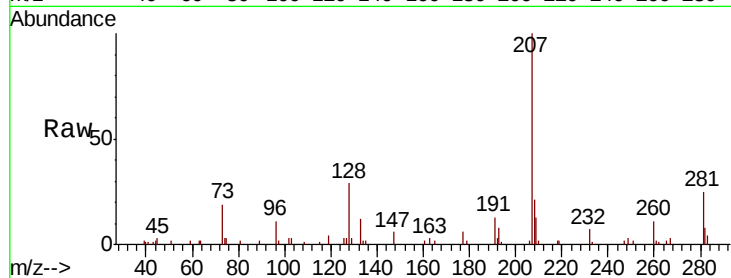
Tot Ion:128 Resp: 5865

Ion Ratio Lower Upper

128 100

127 8.7 10.4 15.6#

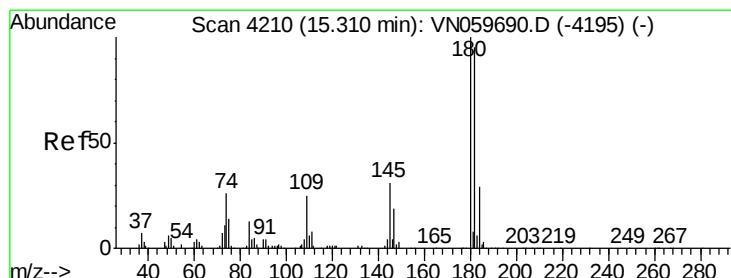
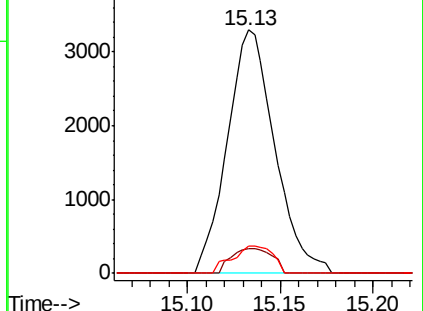
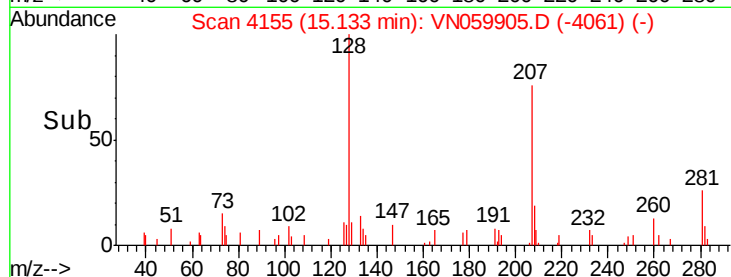
129 9.5 8.6 12.8



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: 0.763 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN059905.D

Acq: 29 Jan 2020 12:27

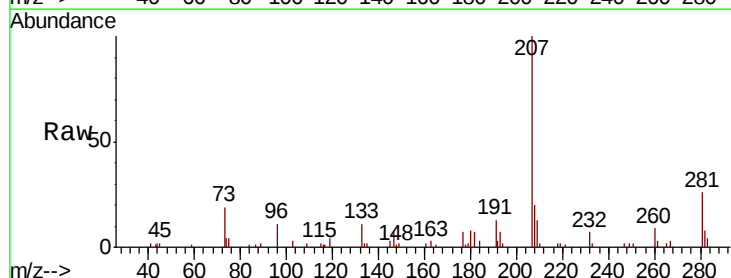
Tgt Ion:180 Resp: 1785

Ion Ratio Lower Upper

180 100

182 86.4 47.4 142.3

145 40.0 16.3 48.9



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

