

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051319\
 Data File : VN055568.D
 Acq On : 13 May 2019 10:29
 Operator : JC/SP
 Sample : VN0513WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513WBL01

Quant Time: May 14 01:46:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N050819W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 10 06:48:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	804105	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1362218	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1144261	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	301540	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	589015	48.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.30%	
35) Dibromofluoromethane	7.59	113	458072	52.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.26%	
50) Toluene-d8	10.09	98	1760396	51.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.82%	
62) 4-Bromofluorobenzene	12.40	95	502267	43.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.00%	

Target Compounds

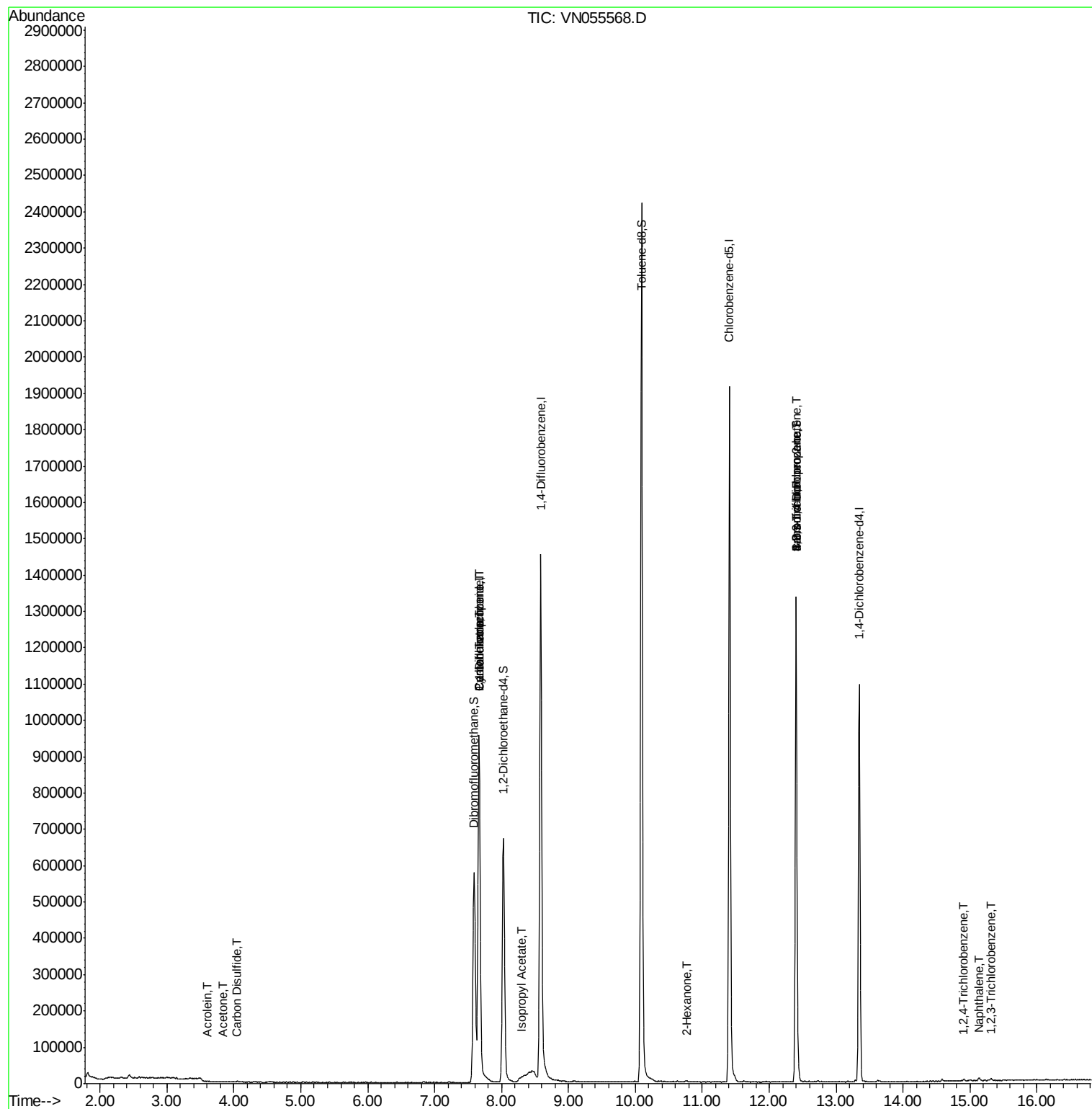
						Qvalue
13) Acrolein	3.60	56	551	0.462	ug/l #	65
16) Acetone	3.83	43	1306	0.233	ug/l #	63
17) Carbon Disulfide	4.05	76	5420	0.226	ug/l	96
18) Methyl Acetate	4.33	43	1423	Below Cal	#	81
31) Cyclohexane	7.66	56	16868	0.863	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	66402	4.948	ug/l #	51
38) Carbon Tetrachloride	7.66	117	76529	6.772	ug/l #	16
43) Isopropyl Acetate	8.29	43	13160	0.592	ug/l #	63
59) 2-Hexanone	10.77	43	4544	0.443	ug/l	88
71) Bromoform	12.40	173	3571	0.653	ug/l #	1
73) Isopropylbenzene	12.25	105	1052	Below Cal		96
75) 1,1,2,2-Tetrachloroethane	12.51	83	170	Below Cal	#	74
76) 1,2,3-Trichloropropane	12.40	75	252421	30.749	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	252421	113.461	ug/l #	7
93) 1,2,4-Trichlorobenzene	14.91	180	1890	3.601	ug/l	94
94) Hexachlorobutadiene	15.01	225	774	Below Cal		83
95) Naphthalene	15.14	128	6309	3.409	ug/l	96
96) 1,2,3-Trichlorobenzene	15.31	180	1654	2.748	ug/l	65

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

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QLast Update : Fri May 10 06:48:32 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055568.D

Acq: 13 May 2019 10:29

Instrument :

MSVOA_N

ClientSampleId :

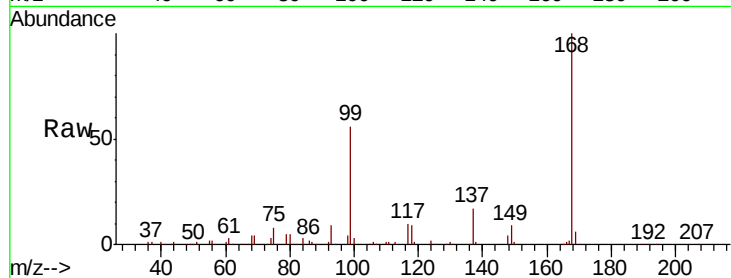
VN0513WBL01

Tot Ion:168 Resp: 804105

Ion Ratio Lower Upper

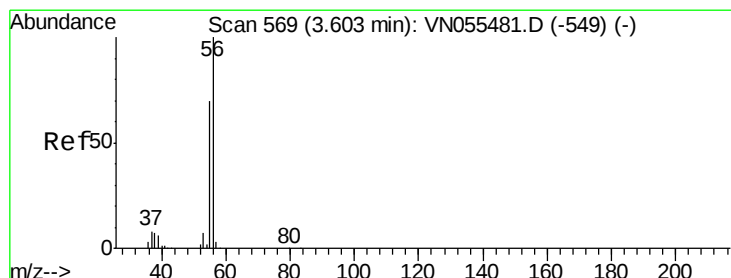
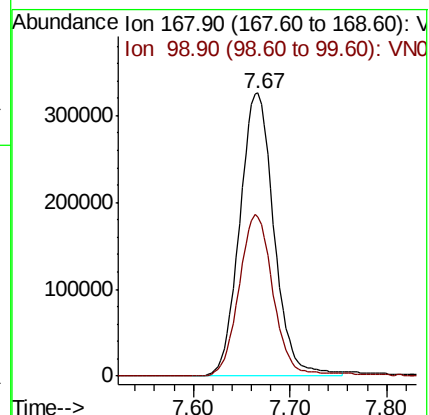
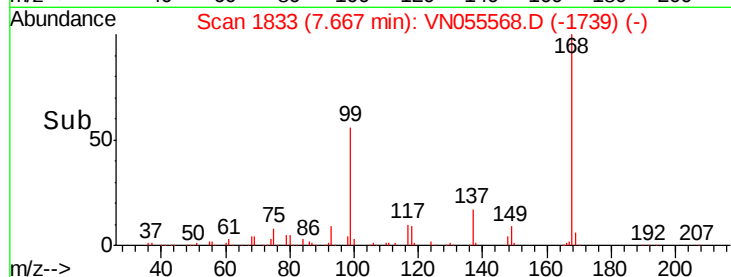
168 100

99 56.5 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): VN055568.D (-1739) (-)

Ion 98.90 (98.60 to 99.60): VN055568.D (-1739) (-)



#13

Acrolein

Concen: 0.462 ug/l

RT: 3.60 min Scan# 567

Delta R.T. -0.01 min

Lab File: VN055568.D

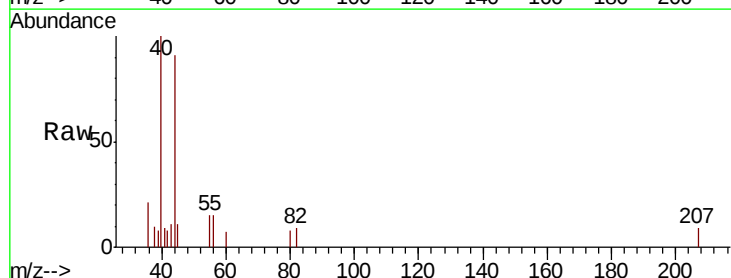
Acq: 13 May 2019 10:29

Tgt Ion: 56 Resp: 551

Ion Ratio Lower Upper

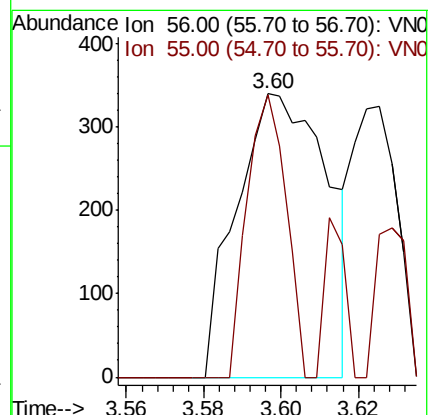
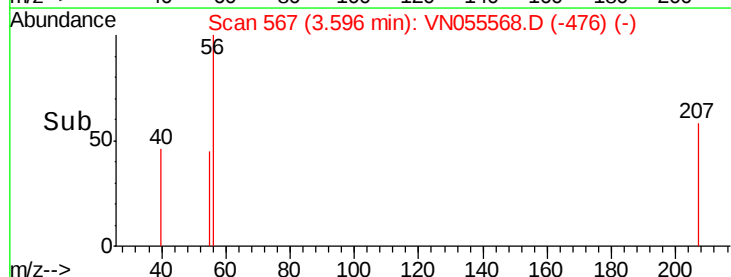
56 100

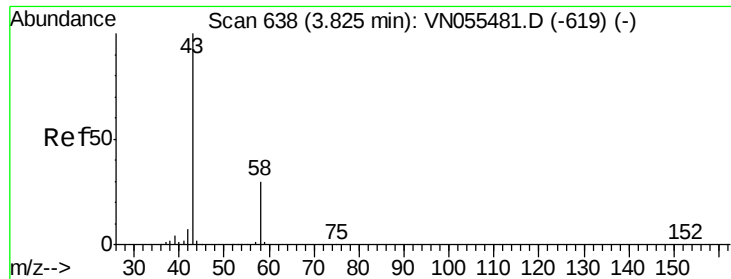
55 42.8 57.7 86.5#



Abundance Ion 56.00 (55.70 to 56.70): VN055568.D (-476) (-)

Ion 55.00 (54.70 to 55.70): VN055568.D (-476) (-)





#16

Acetone

Concen: 0.233 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.00 min

Lab File: VN055568.D

Acq: 13 May 2019 10:29

Instrument :

MSVOA_N

ClientSampleId :

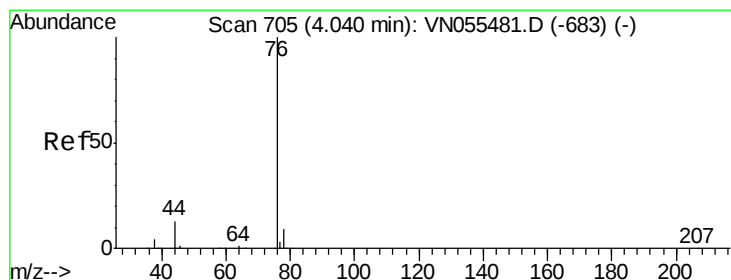
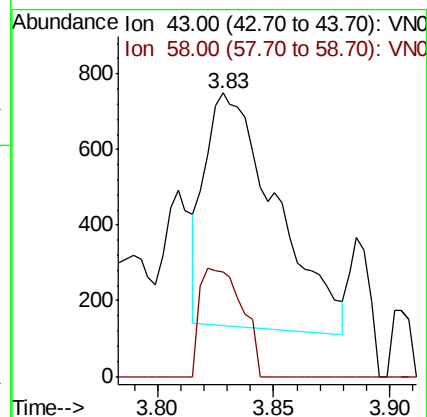
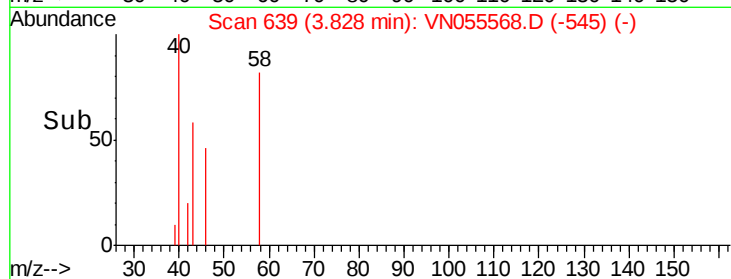
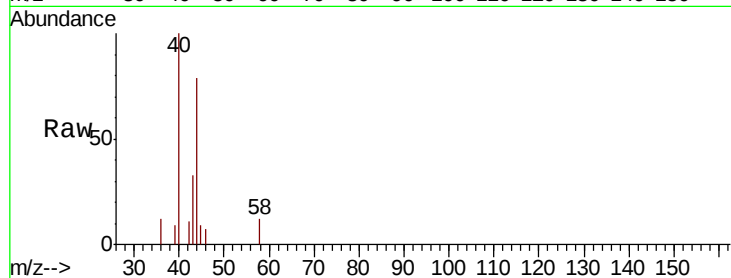
VN0513WBL01

Tot Ion: 43 Resp: 1306

Ion Ratio Lower Upper

43 100

58 50.1 24.2 36.2#



#17

Carbon Disulfide

Concen: 0.226 ug/l

RT: 4.05 min Scan# 708

Delta R.T. 0.01 min

Lab File: VN055568.D

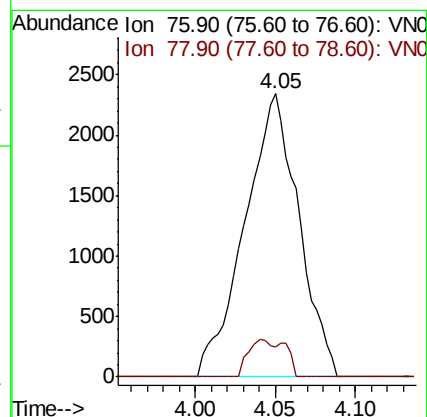
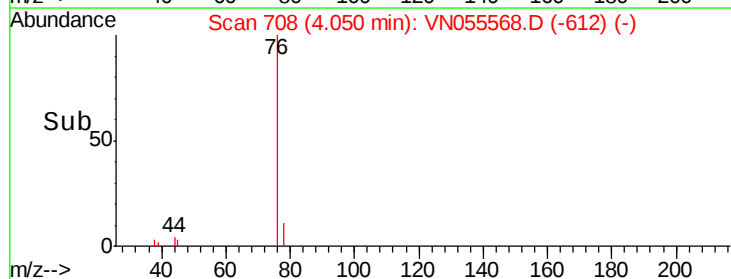
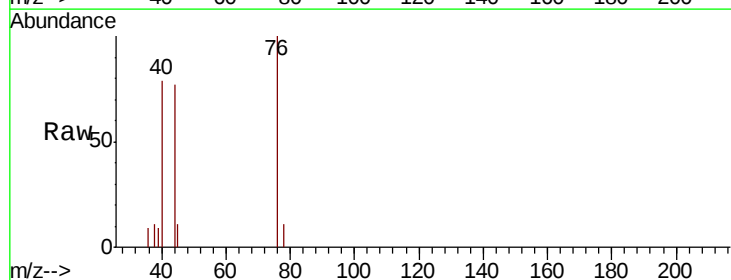
Acq: 13 May 2019 10:29

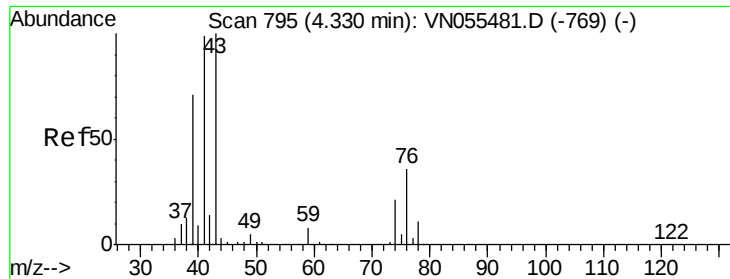
Tgt Ion: 76 Resp: 5420

Ion Ratio Lower Upper

76 100

78 10.6 7.4 11.0

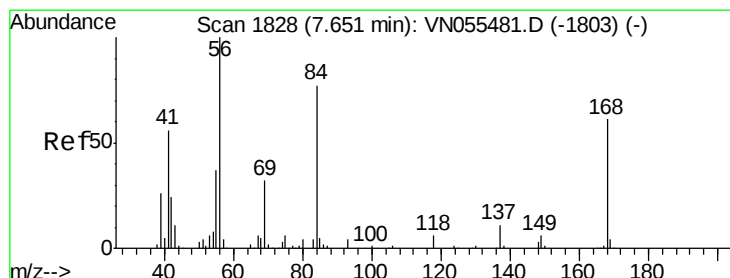
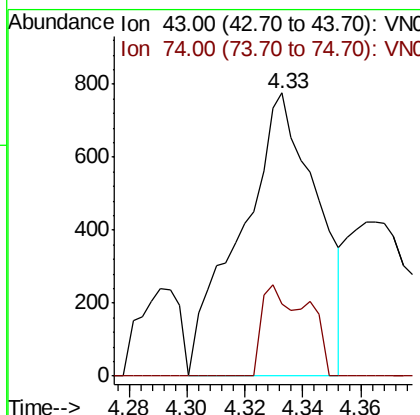
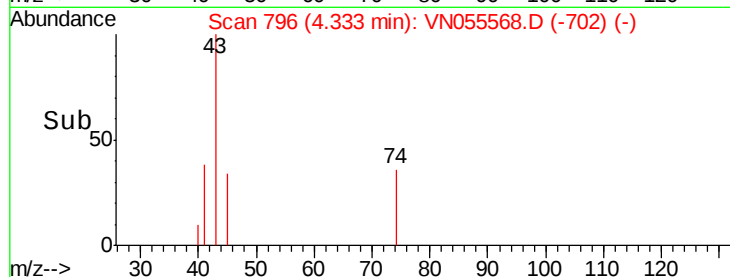
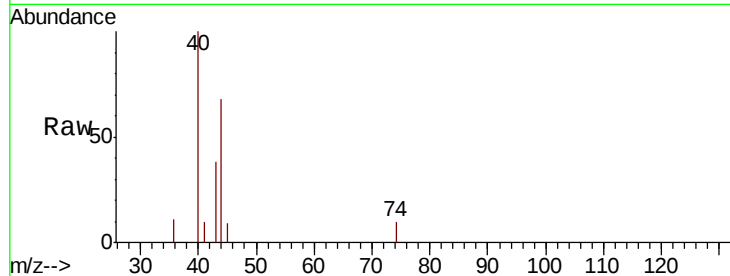




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN055568.D
Acq: 13 May 2019 10:29

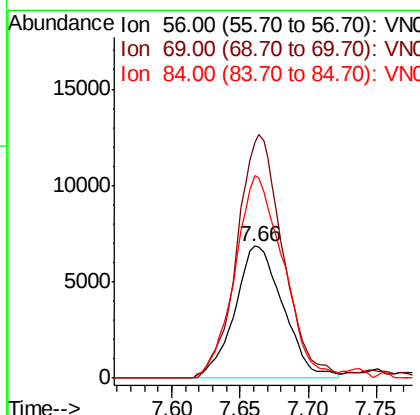
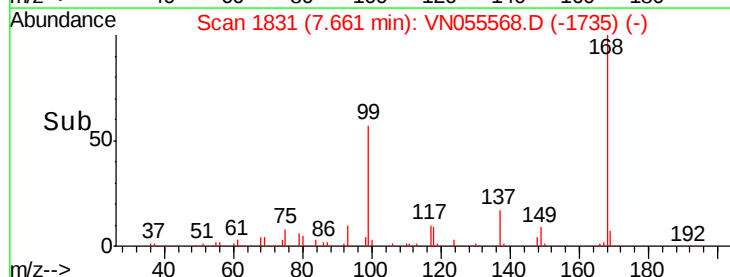
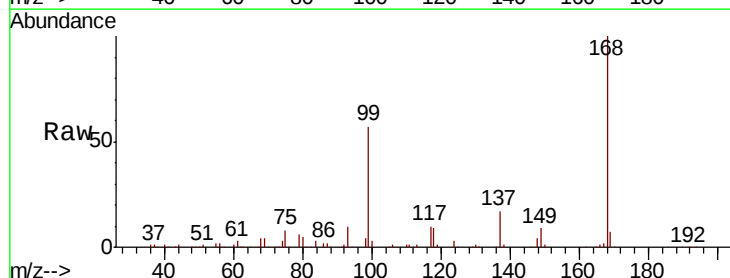
Instrument :
MSVOA_N
ClientSampleId :
VN0513WBL01

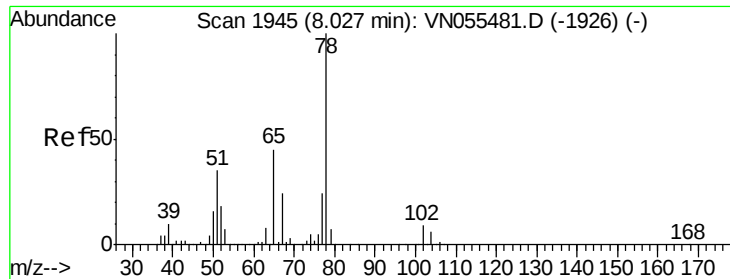
Tot Ion: 43 Resp: 1423
Ion Ratio Lower Upper
43 100
74 11.5 16.3 24.5#



#31
Cyclohexane
Concen: 0.863 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN055568.D
Acq: 13 May 2019 10:29

Tgt Ion: 56 Resp: 16868
Ion Ratio Lower Upper
56 100
69 179.5 26.0 39.0#
84 153.6 61.9 92.9#





#33

1,2-Dichloroethane-d4

Concen: 48.650 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN055568.D

Acq: 13 May 2019 10:29

Instrument :

MSVOA_N

ClientSampled :

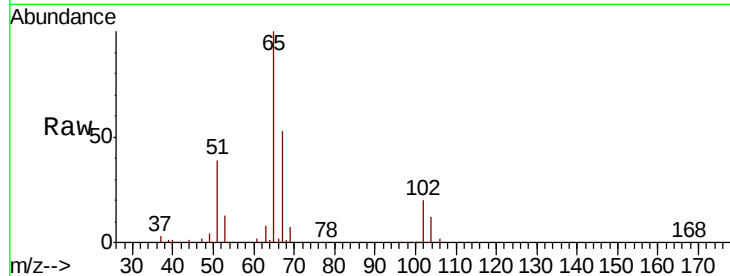
VN0513WBL01

Tot Ion: 65 Resp: 589015

Ion Ratio Lower Upper

65 100

67 54.2 0.0 109.6



Abundance Ion 64.90 (64.60 to 65.60): VN055481.D (-1926) (-)

Ion 66.90 (66.60 to 67.60): VN055481.D (-1926) (-)

8.03

250000

200000

150000

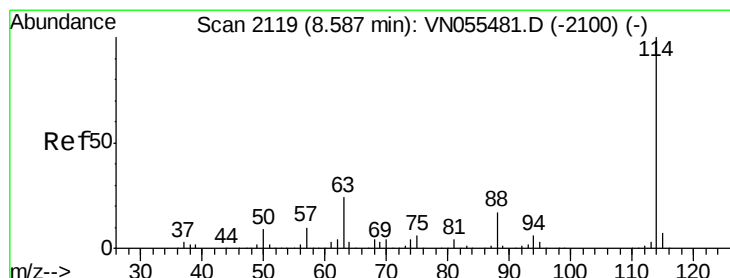
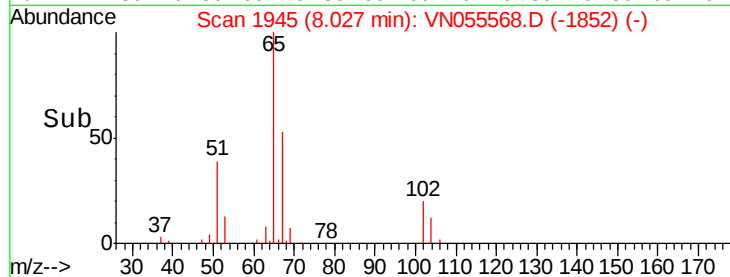
100000

50000

0

7.90 8.00 8.10 8.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN055568.D

Acq: 13 May 2019 10:29

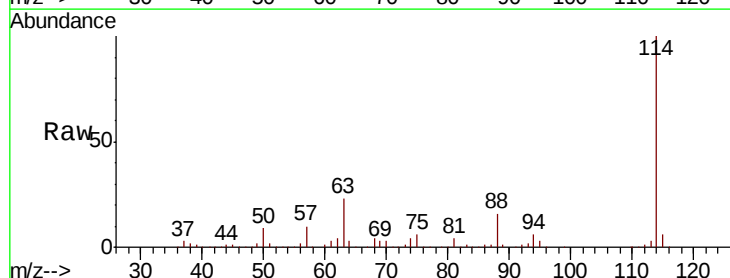
Tgt Ion: 114 Resp: 1362218

Ion Ratio Lower Upper

114 100

63 22.9 0.0 47.4

88 16.1 0.0 34.0



Abundance Ion 113.90 (113.60 to 114.60): VN055481.D (-2100) (-)

Ion 63.00 (62.70 to 63.70): VN055481.D (-2100) (-)

Ion 87.90 (87.60 to 88.60): VN055481.D (-2100) (-)

8.59

800000

600000

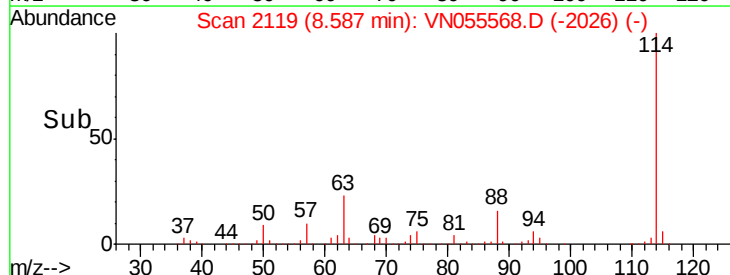
400000

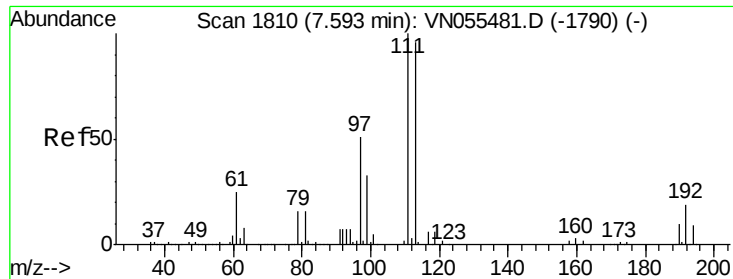
200000

0

8.50 8.60 8.70

Time-->

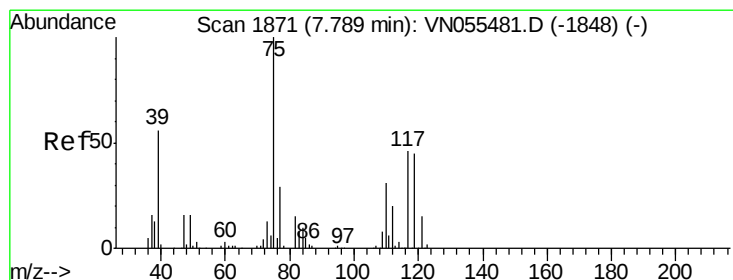
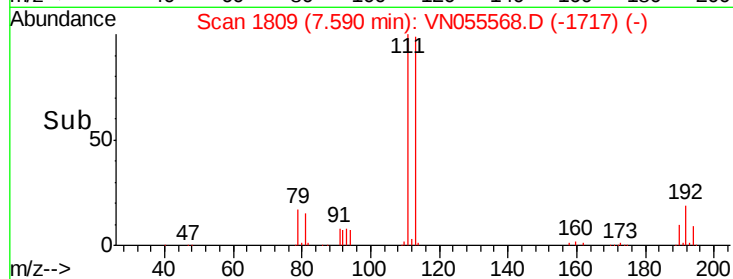
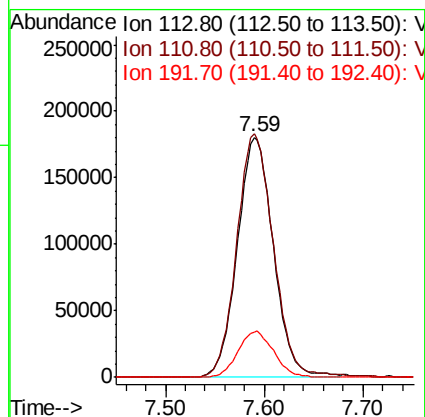
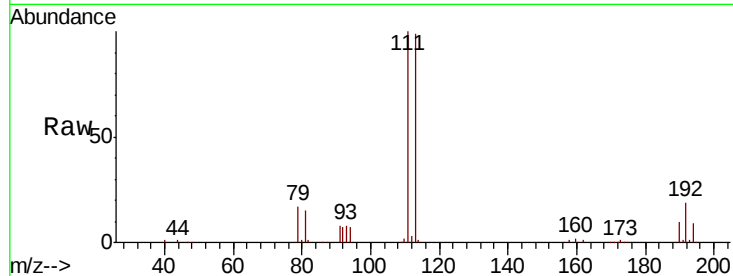




#35
 Dibromofluoromethane
 Concen: 52.128 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN055568.D
 Acq: 13 May 2019 10:29

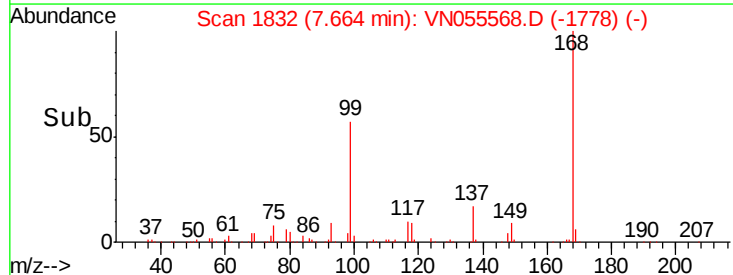
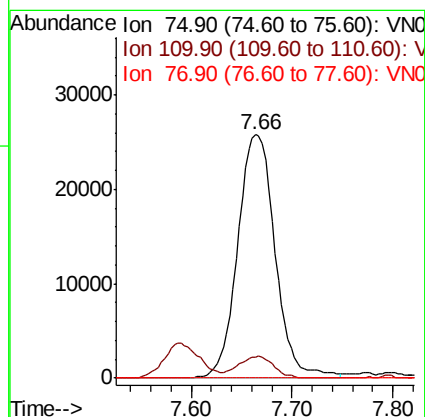
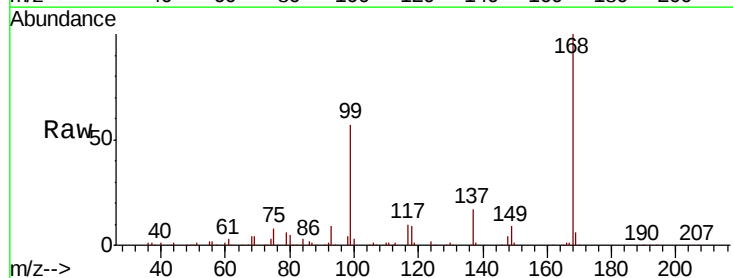
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513WBL01

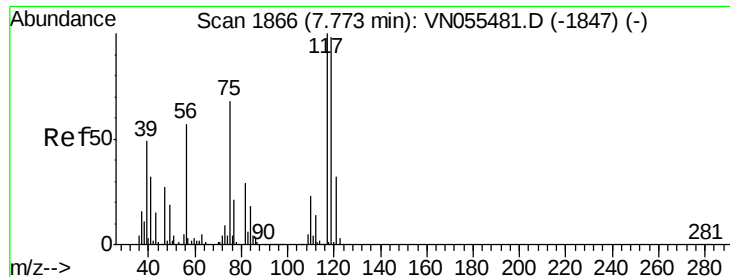
Tot Ion:113 Resp: 458072
 Ion Ratio Lower Upper
 113 100
 111 103.5 82.9 124.3
 192 19.2 15.6 23.4



#36
 1,1-Dichloropropene
 Concen: 4.948 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055568.D
 Acq: 13 May 2019 10:29

Tgt Ion: 75 Resp: 66402
 Ion Ratio Lower Upper
 75 100
 110 8.4 16.1 48.3#
 77 0.0 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 6.772 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055568.D

Acq: 13 May 2019 10:29

Instrument :

MSVOA_N

ClientSampleId :

VN0513WBL01

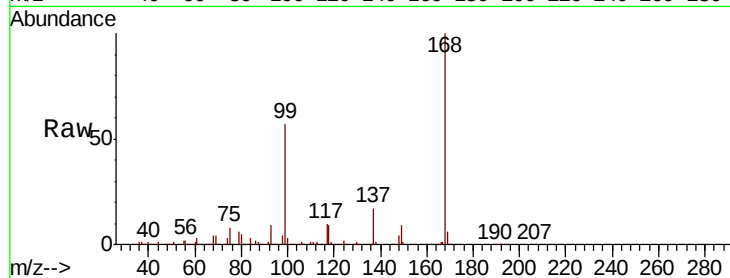
Tot Ion:117 Resp: 76529

Ion Ratio Lower Upper

117 100

119 5.9 77.8 116.6#

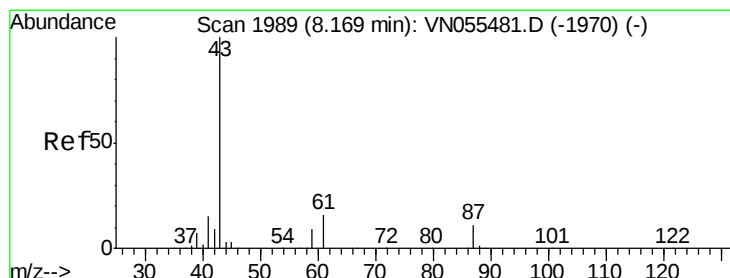
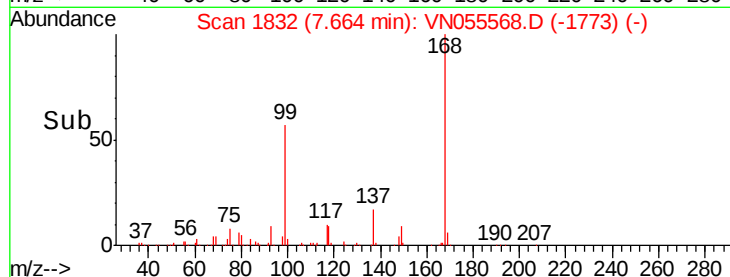
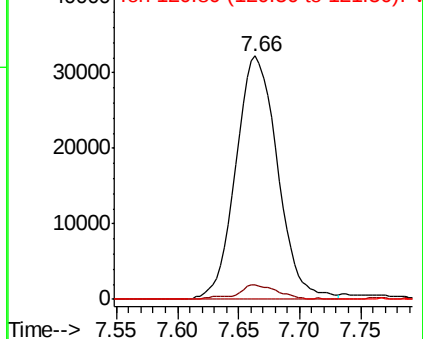
121 0.0 25.2 37.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 0.592 ug/l

RT: 8.29 min Scan# 2027

Delta R.T. 0.12 min

Lab File: VN055568.D

Acq: 13 May 2019 10:29

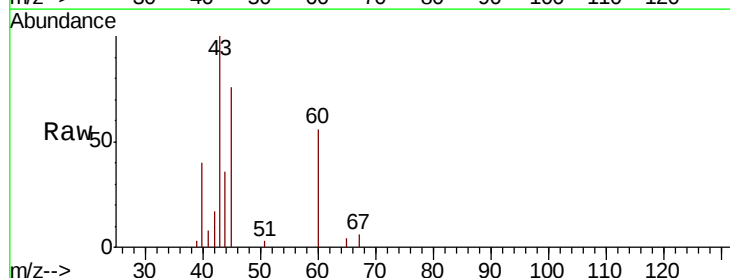
Tgt Ion: 43 Resp: 13160

Ion Ratio Lower Upper

43 100

61 0.0 15.1 22.7#

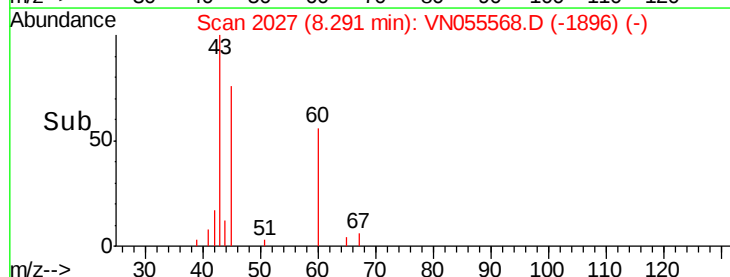
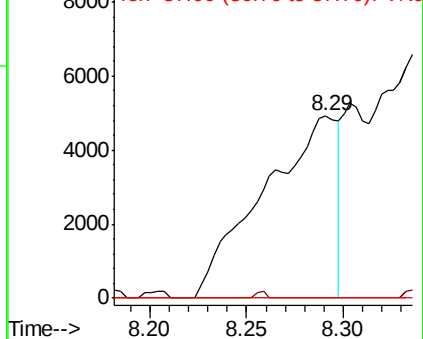
87 0.0 9.0 13.6#

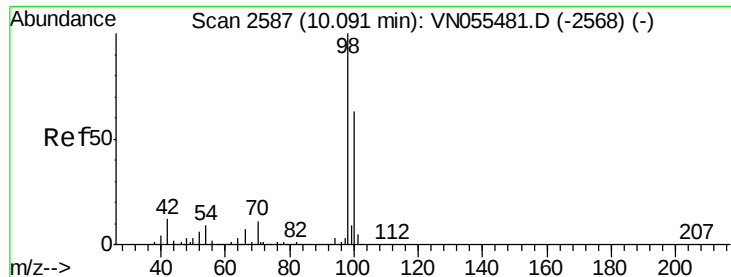


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#50

Toluene-d8

Concen: 51.408 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN055568.D

Acq: 13 May 2019 10:29

Instrument :

MSVOA_N

ClientSampled :

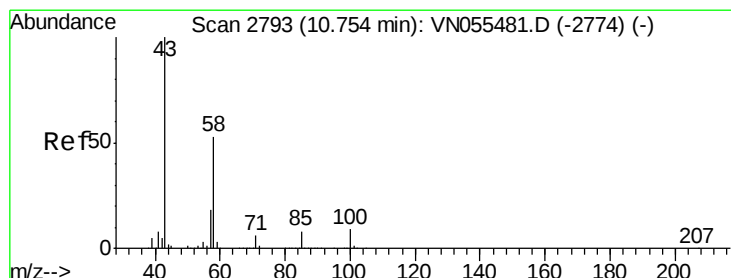
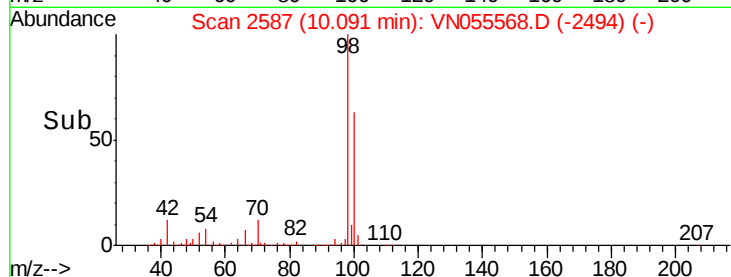
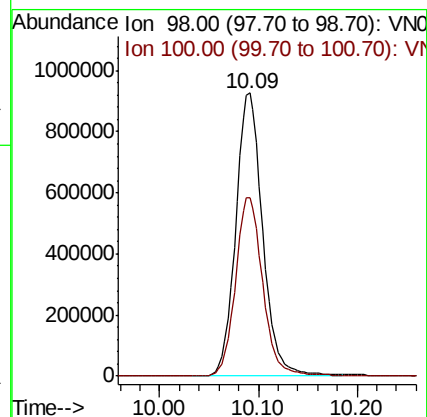
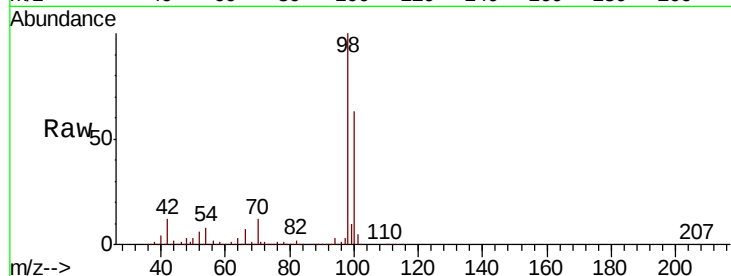
VN0513WBL01

Tot Ion: 98 Resp: 1760396

Ion Ratio Lower Upper

98 100

100 64.0 50.4 75.6



#59

2-Hexanone

Concen: 0.443 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN055568.D

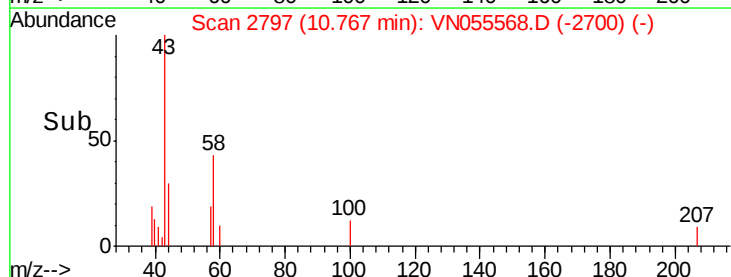
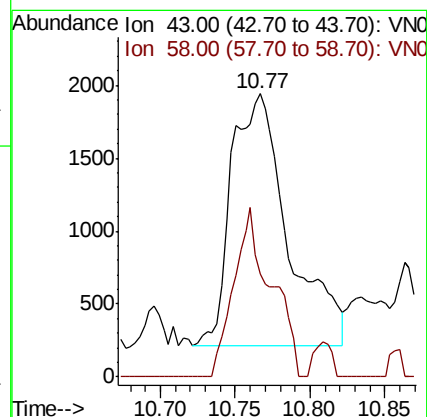
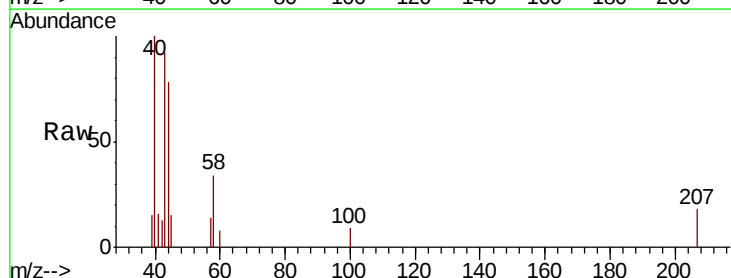
Acq: 13 May 2019 10:29

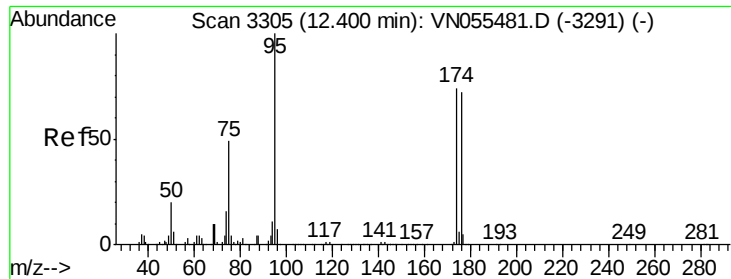
Tgt Ion: 43 Resp: 4544

Ion Ratio Lower Upper

43 100

58 44.3 26.4 79.0

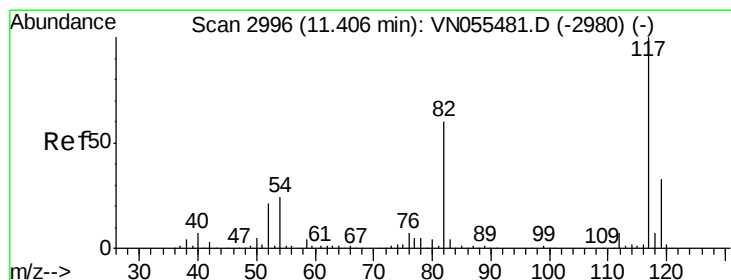
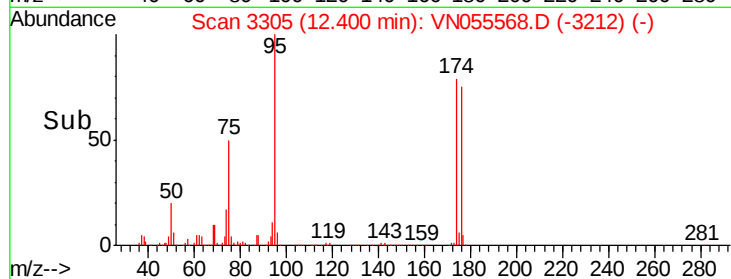
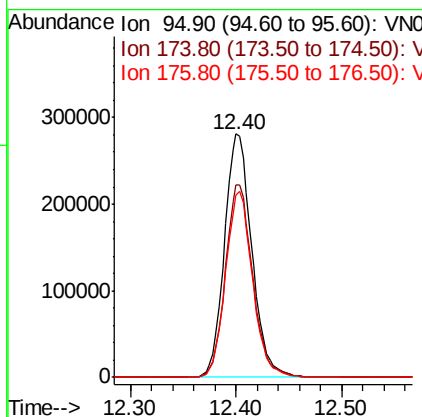
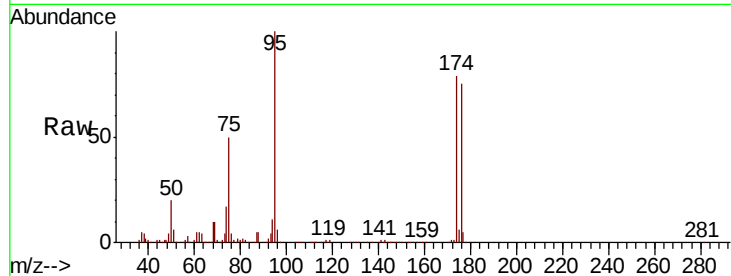




#62
4-Bromofluorobenzene
Concen: 43.500 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN055568.D
Acq: 13 May 2019 10:29

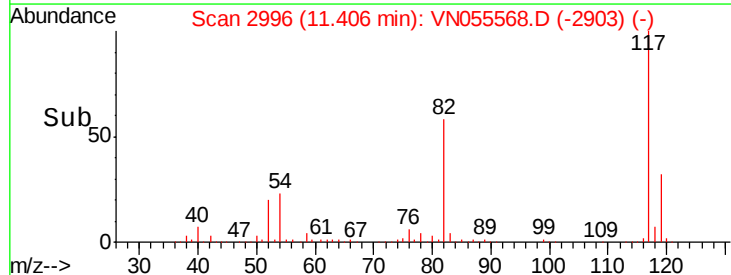
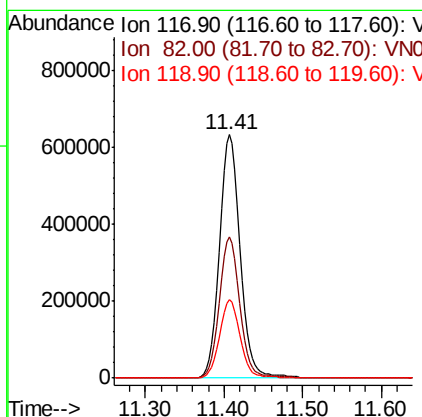
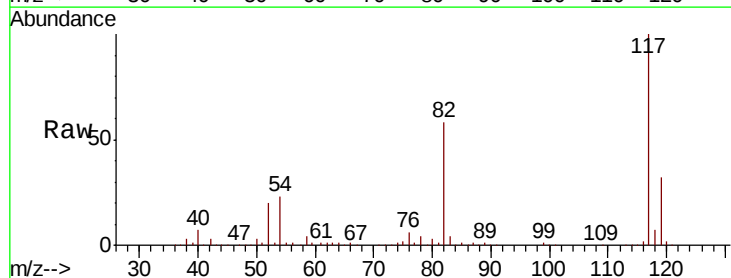
Instrument :
MSVOA_N
ClientSampleId :
VN0513WBL01

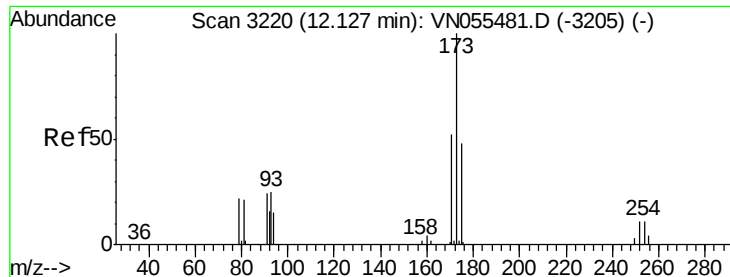
Tot Ion: 95 Resp: 502267
Ion Ratio Lower Upper
95 100
174 79.1 0.0 152.2
176 75.7 0.0 147.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055568.D
Acq: 13 May 2019 10:29

Tgt Ion: 117 Resp: 1144261
Ion Ratio Lower Upper
117 100
82 57.8 48.0 72.0
119 32.2 26.0 39.0





#71

Bromoform

Concen: 0.653 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN055568.D

Acq: 13 May 2019 10:29

Instrument :

MSVOA_N

ClientSampled :

VN0513WBL01

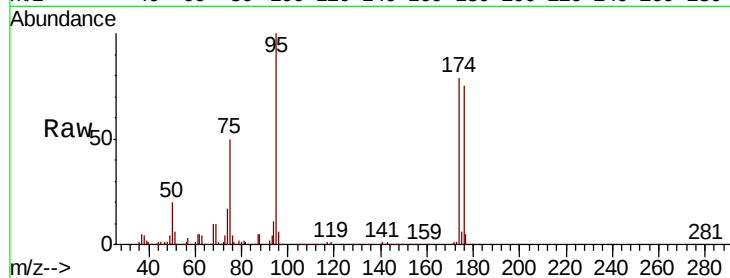
Tot Ion:173 Resp: 3571

Ion Ratio Lower Upper

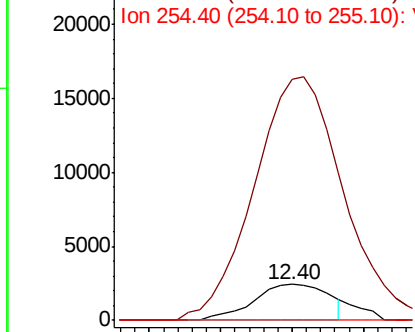
173 100

175 682.0 24.1 72.4#

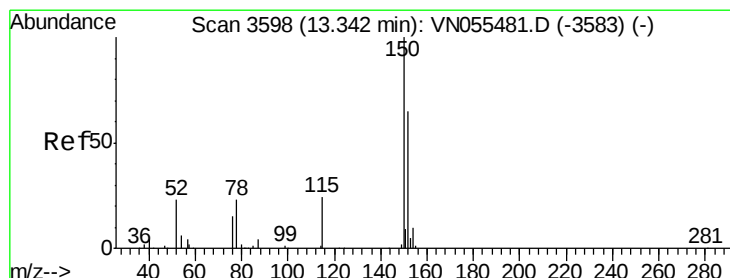
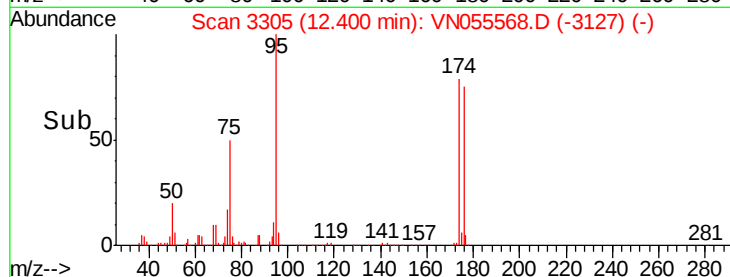
254 0.0 0.1 0.1#



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



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN055568.D

Acq: 13 May 2019 10:29

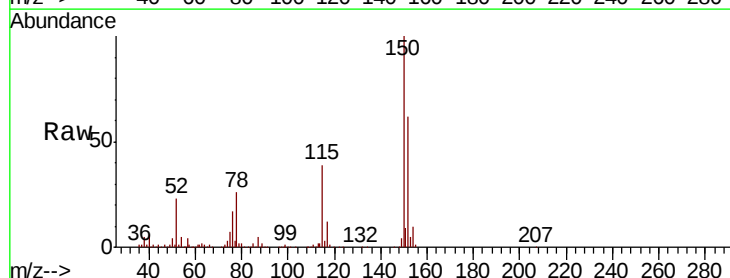
Tgt Ion:152 Resp: 301540

Ion Ratio Lower Upper

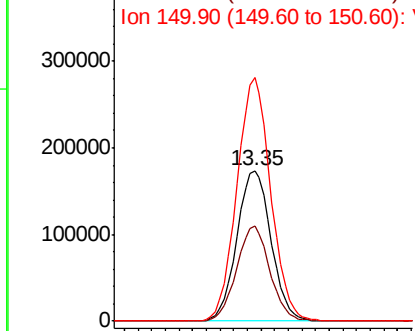
152 100

115 61.6 30.1 90.5

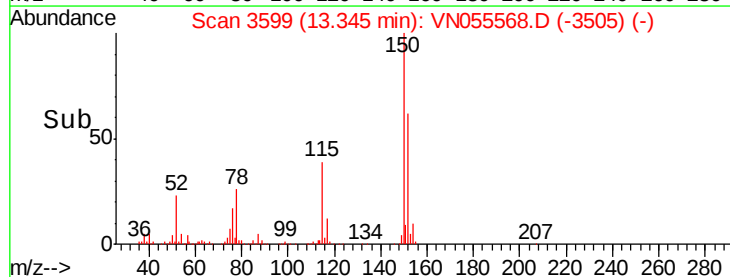
150 160.3 0.0 355.0

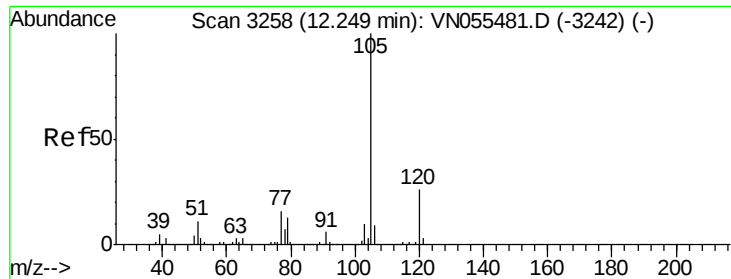


Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



Time-->





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055568.D

Acq: 13 May 2019 10:29

Instrument :

MSVOA_N

ClientSampled :

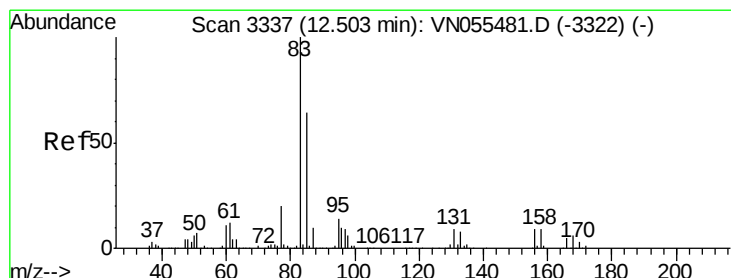
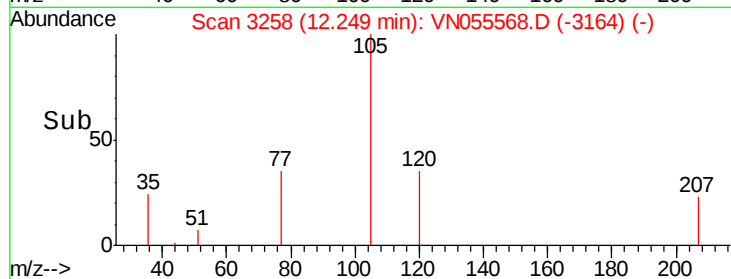
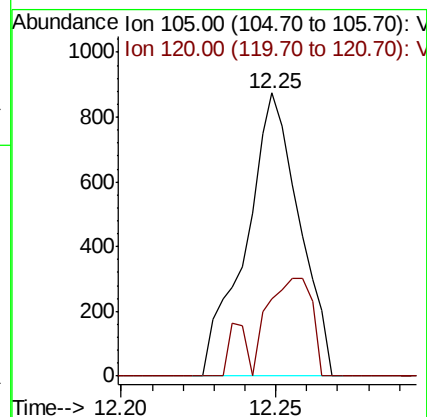
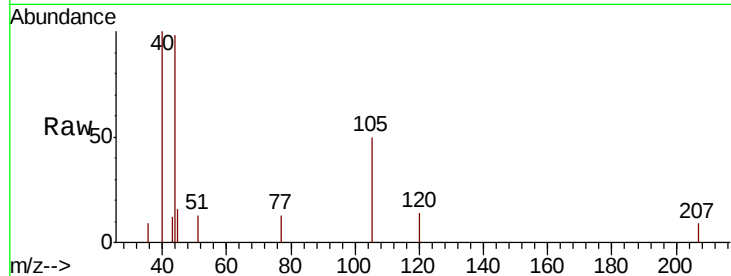
VN0513WBL01

Tot Ion: 105 Resp: 1052

Ion Ratio Lower Upper

105 100

120 28.2 13.0 39.0



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.51 min Scan# 3339

Delta R.T. 0.01 min

Lab File: VN055568.D

Acq: 13 May 2019 10:29

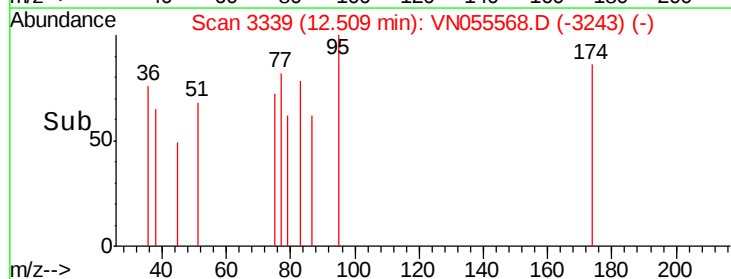
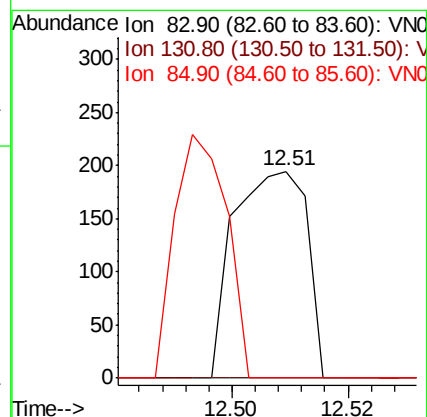
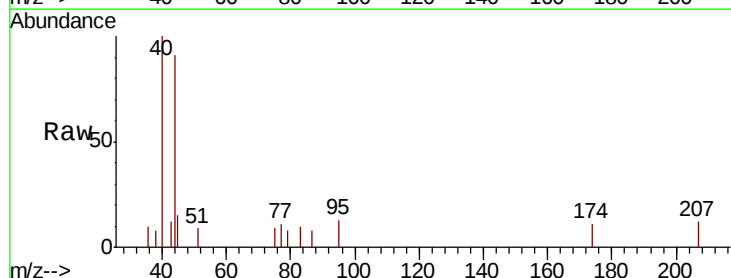
Tgt Ion: 83 Resp: 170

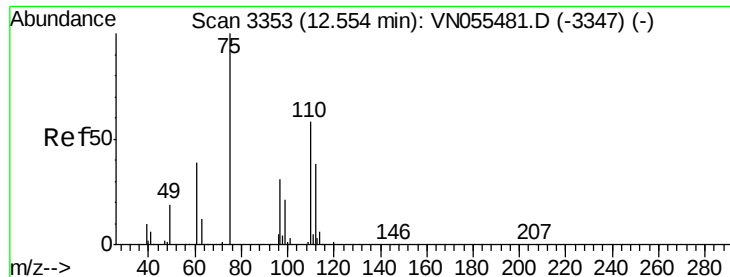
Ion Ratio Lower Upper

83 100

131 0.0 4.5 13.5#

85 84.1 32.0 96.0





#76

1,2,3-Trichloropropane

Concen: 30.749 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055568.D

Acq: 13 May 2019 10:29

Instrument :

MSVOA_N

ClientSampleId :

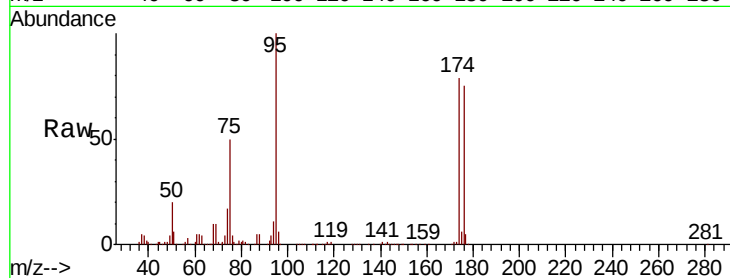
VN0513WBL01

Tot Ion: 75 Resp: 252421

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

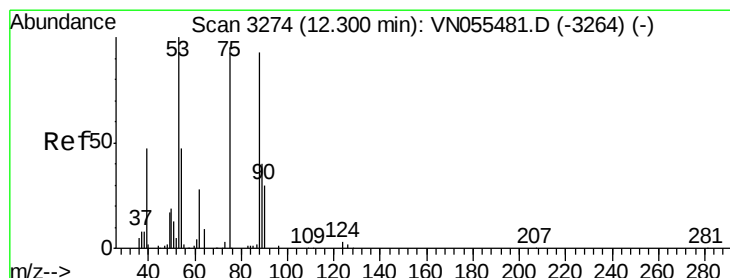
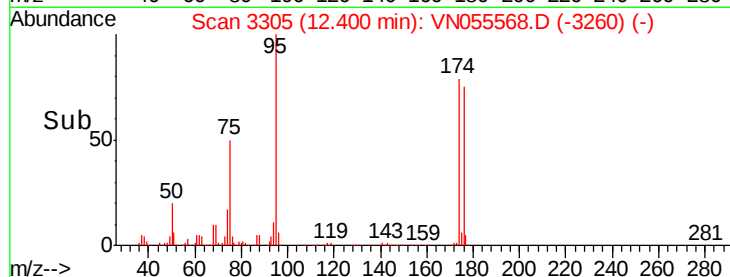
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 113.461 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055568.D

Acq: 13 May 2019 10:29

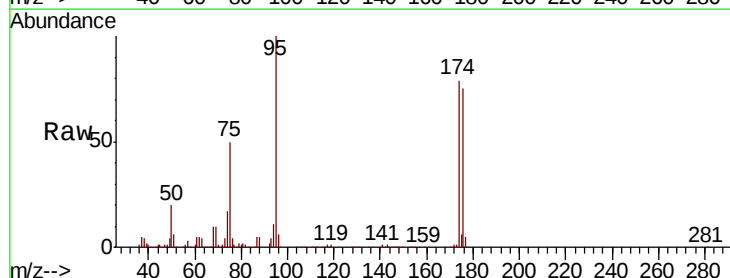
Tgt Ion: 75 Resp: 252421

Ion Ratio Lower Upper

75 100

53 0.0 86.5 129.7#

89 0.0 35.7 53.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

12.40

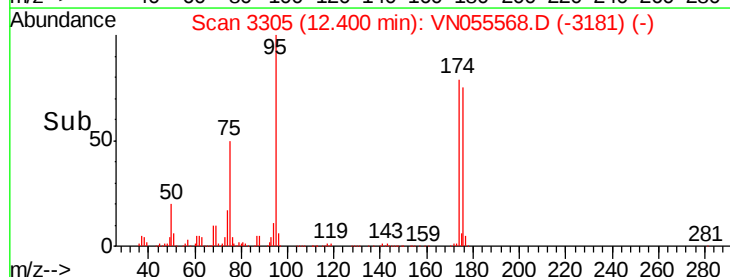
150000

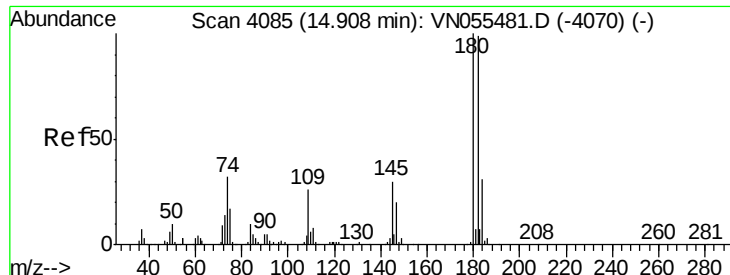
100000

50000

0

Time--> 12.30 12.40 12.50

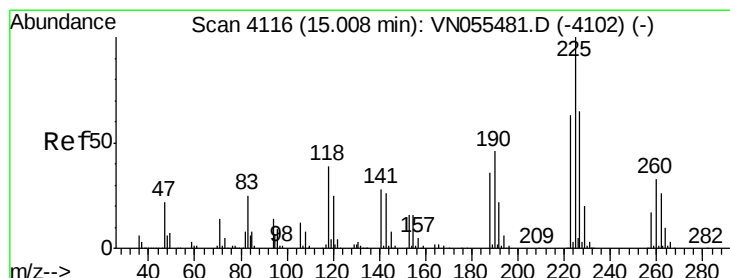
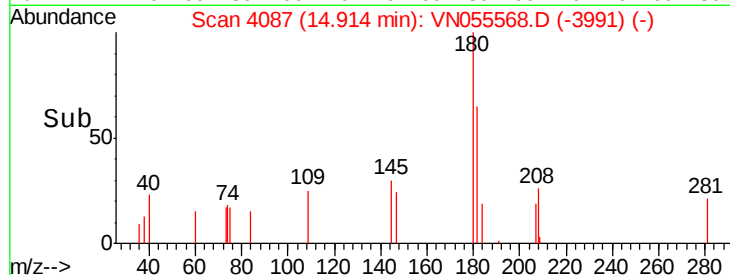
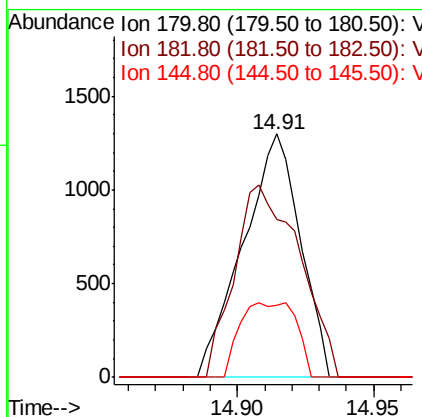
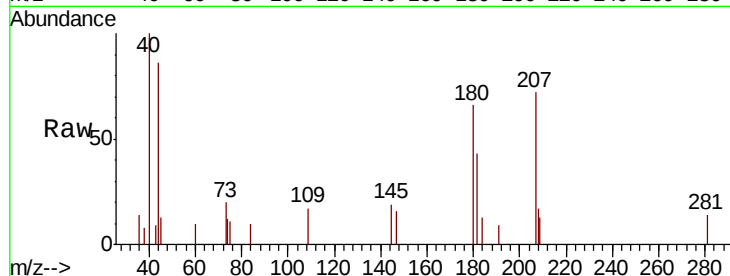




#93
 1,2,4-Trichlorobenzene
 Concen: 3.601 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VN055568.D
 Acq: 13 May 2019 10:29

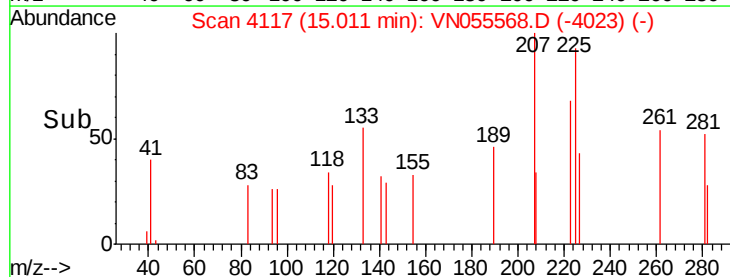
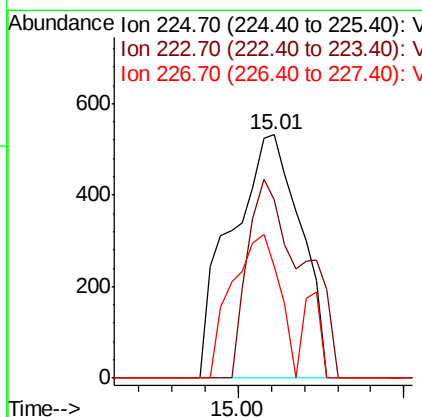
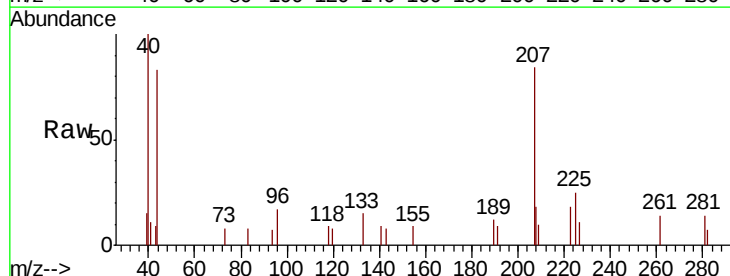
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513WBL01

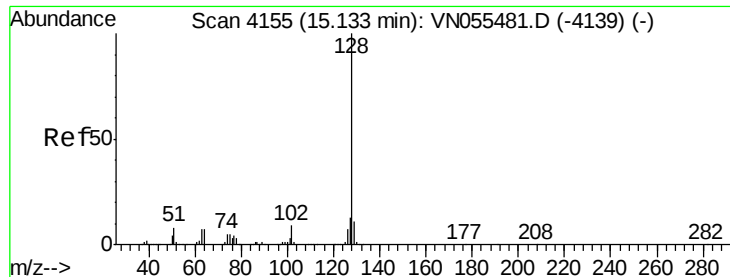
Tot Ion:180 Resp: 1890
 Ion Ratio Lower Upper
 180 100
 182 90.2 48.7 146.1
 145 30.2 15.3 45.9



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN055568.D
 Acq: 13 May 2019 10:29

Tgt Ion:225 Resp: 774
 Ion Ratio Lower Upper
 225 100
 223 65.0 31.4 94.3
 227 40.3 32.0 96.0

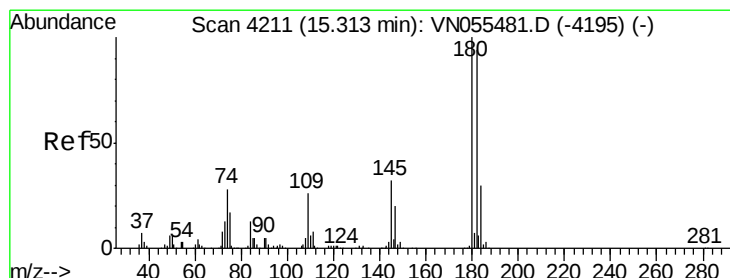
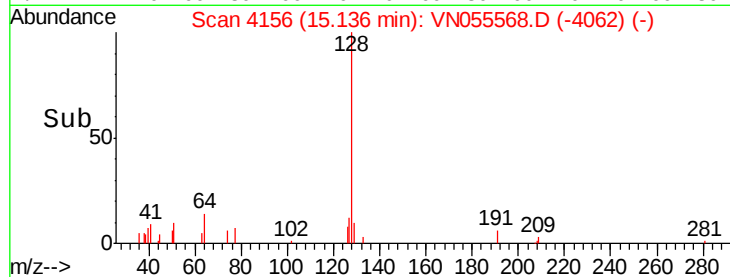
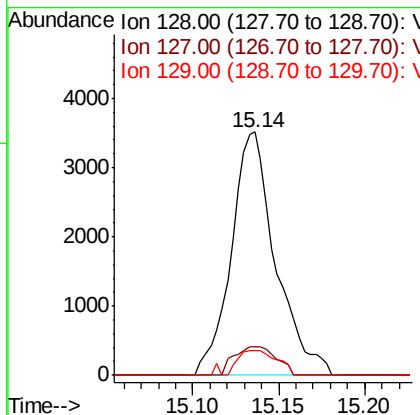
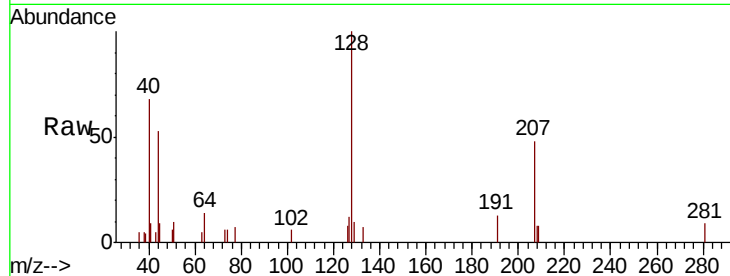




#95
Naphthalene
Concen: 3.409 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN055568.D
Acq: 13 May 2019 10:29

Instrument :
MSVOA_N
ClientSampleId :
VN0513WBL01

Tot Ion:128 Resp: 6309
Ion Ratio Lower Upper
128 100
127 11.3 10.0 15.0
129 9.0 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 2.748 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN055568.D
Acq: 13 May 2019 10:29

Tgt Ion:180 Resp: 1654
Ion Ratio Lower Upper
180 100
182 134.9 47.1 141.3
145 39.0 15.8 47.4

