

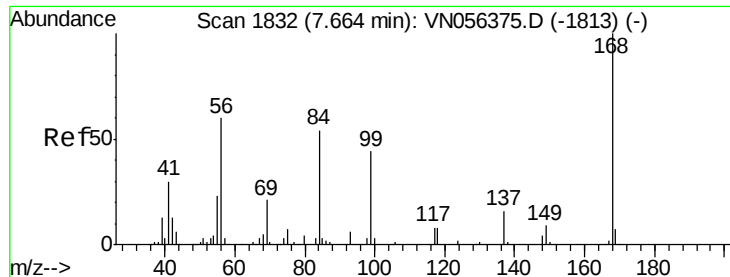
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062019\
 Data File : VN056389.D
 Acq On : 20 Jun 2019 9:58
 Operator : JC/SP
 Sample : VN0620MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 21 04:23:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 21 03:45:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	356645	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	595603	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	561531	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	158690	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	197754	50.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.06%	
35) Dibromofluoromethane	7.59	113	177996	47.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.82%	
50) Toluene-d8	10.09	98	725246	50.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.32%	
62) 4-Bromofluorobenzene	12.40	95	225025	46.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.38%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.57	94	647	0.278	ug/l #	65
11) Tert butyl alcohol	4.75	59	6516	9.788	ug/l #	74
13) Acrolein	3.61	56	200	0.356	ug/l #	75
16) Acetone	3.82	43	2292	1.157	ug/l #	76
18) Methyl Acetate	4.34	43	1712	Below Cal	#	55
31) Cyclohexane	7.66	56	5945	0.974	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	23379	4.460	ug/l #	49
38) Carbon Tetrachloride	7.66	117	30376	6.626	ug/l #	15
43) Isopropyl Acetate	8.32	43	9611	1.210	ug/l #	54
51) 4-Methyl-2-Pentanone	9.98	43	1611	0.314	ug/l #	73
59) 2-Hexanone	10.76	43	1824	0.484	ug/l	83
71) Bromoform	12.40	173	1445	3.583	ug/l #	1
73) Isopropylbenzene	12.25	105	639	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	103258	31.381	ug/l #	100
79) 2-Chlorotoluene	12.68	91	768	Below Cal	#	65
80) 1,3,5-Trimethylbenzene	12.73	105	701	Below Cal		96
81) trans-1,4-Dichloro-2-buten	12.40	75	103258	111.533	ug/l #	8
83) tert-Butylbenzene	13.00	119	554	Below Cal		86
93) 1,2,4-Trichlorobenzene	14.91	180	1468	6.083	ug/l #	91
94) Hexachlorobutadiene	15.01	225	276	Below Cal		91
95) Naphthalene	15.14	128	4736	5.829	ug/l #	89
96) 1,2,3-Trichlorobenzene	15.31	180	2106	5.147	ug/l	88

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056389.D

Acq: 20 Jun 2019 9:58

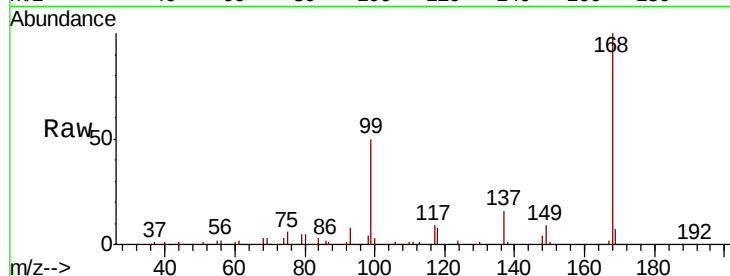
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 356645

Ion Ratio Lower Upper

168 100

99 50.5 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

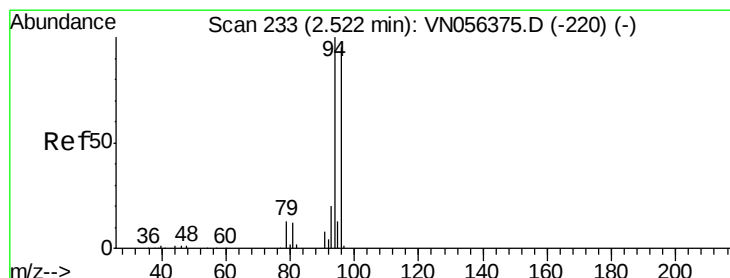
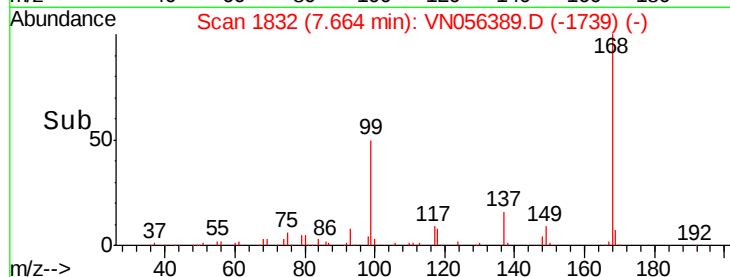
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.278 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.05 min

Lab File: VN056389.D

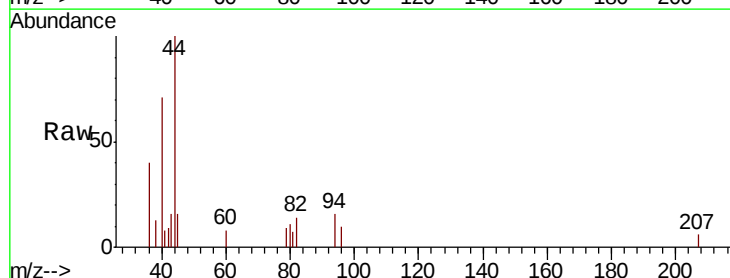
Acq: 20 Jun 2019 9:58

Tgt Ion: 94 Resp: 647

Ion Ratio Lower Upper

94 100

96 61.4 76.0 114.0#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.57

500

400

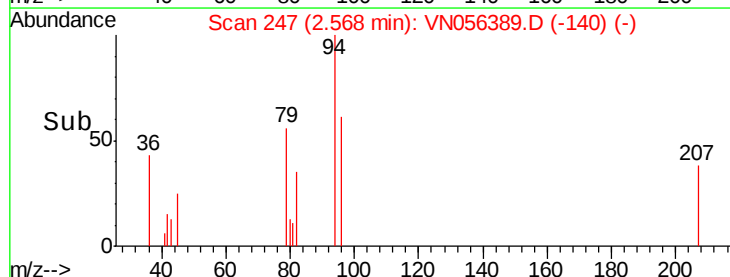
300

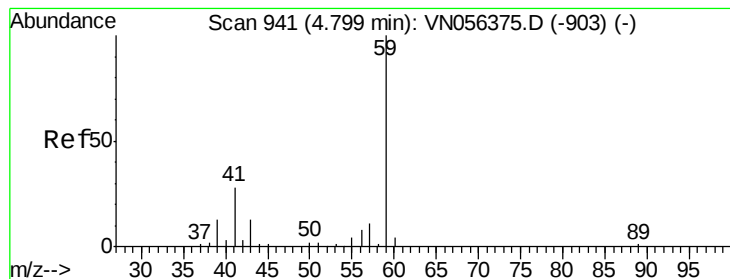
200

100

0

Time-->



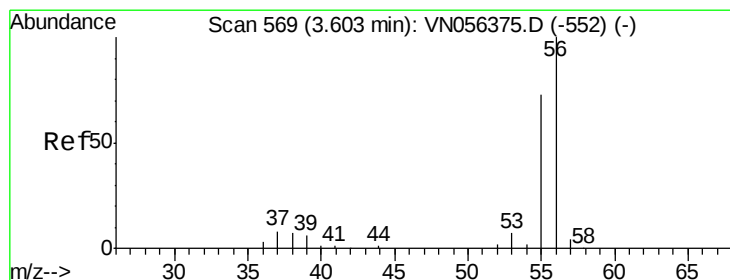
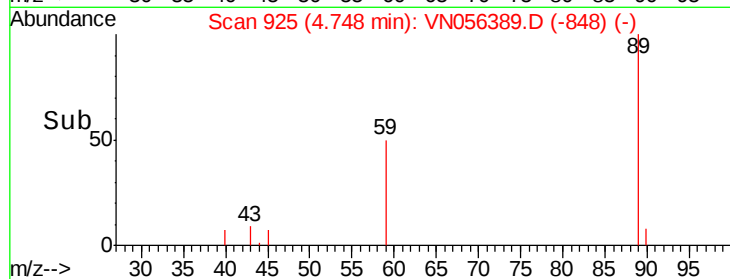
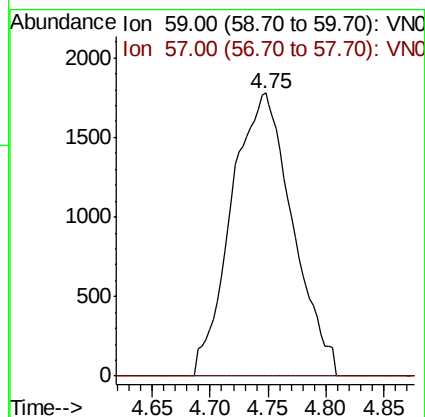
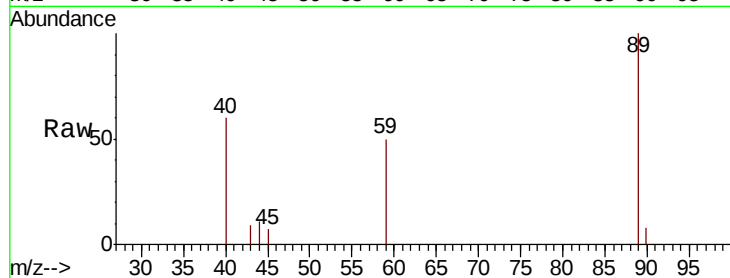


#11

Tert butyl alcohol
 Concen: 9.788 ug/l
 RT: 4.75 min Scan# 925
 Delta R.T. -0.05 min
 Lab File: VN056389.D
 Acq: 20 Jun 2019 9:58

Instrument :
 MSVOA_N
 ClientSampleId :

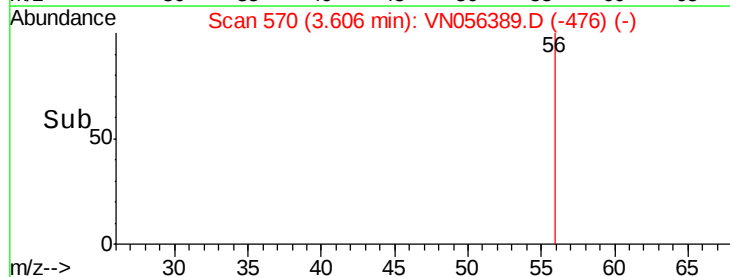
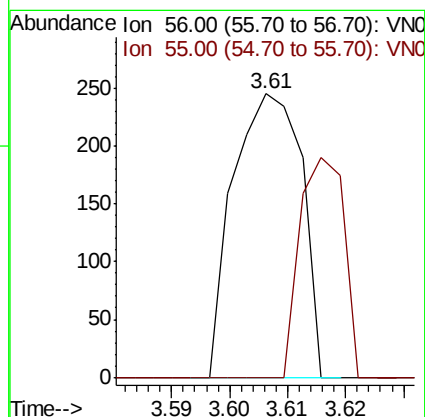
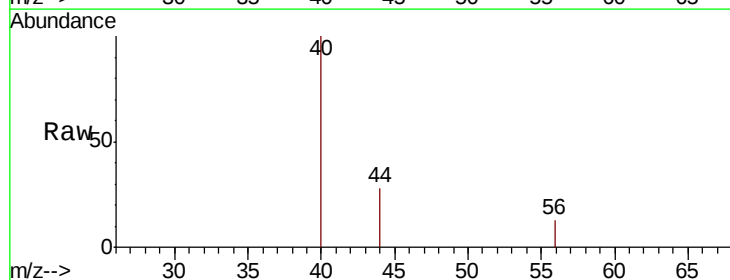
Tot Ion: 59 Resp: 6516
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.6 11.4#

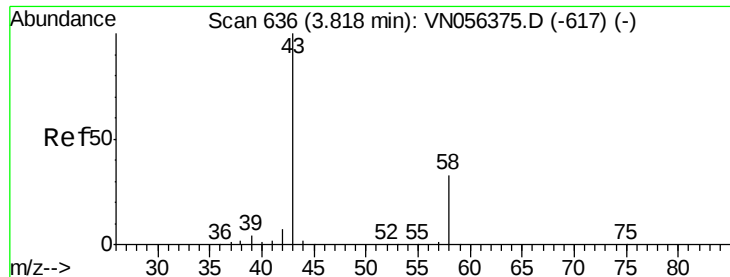


#13

Acrolein
 Concen: 0.356 ug/l
 RT: 3.61 min Scan# 570
 Delta R.T. 0.00 min
 Lab File: VN056389.D
 Acq: 20 Jun 2019 9:58

Tgt Ion: 56 Resp: 200
 Ion Ratio Lower Upper
 56 100
 55 50.5 57.1 85.7#





#16

Acetone

Concen: 1.157 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN056389.D

Acq: 20 Jun 2019 9:58

Instrument :

MSVOA_N

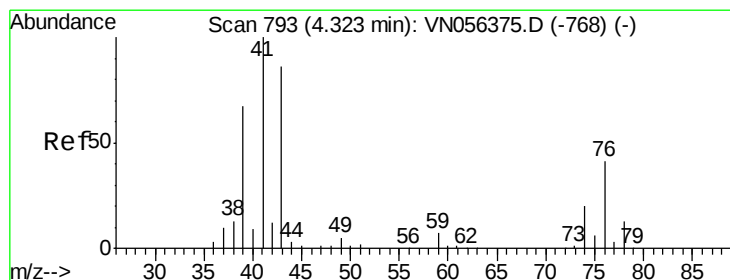
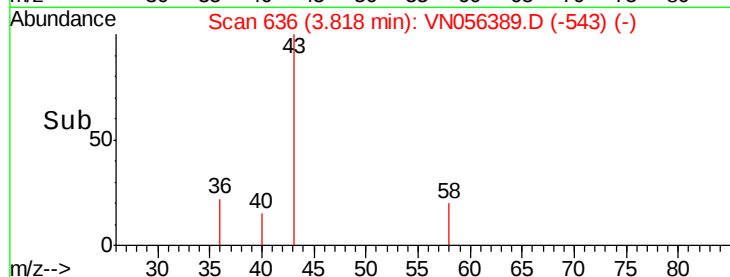
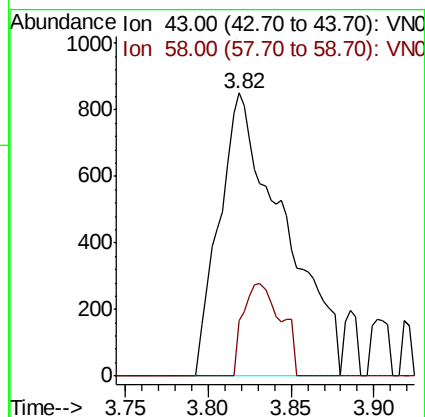
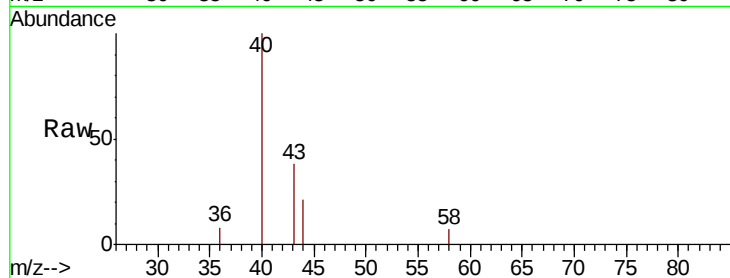
ClientSampleId :

Tot Ion: 43 Resp: 2292

Ion Ratio Lower Upper

43 100

58 19.5 26.4 39.6#



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 798

Delta R.T. 0.02 min

Lab File: VN056389.D

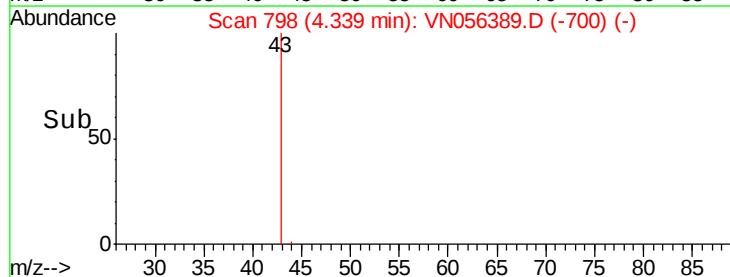
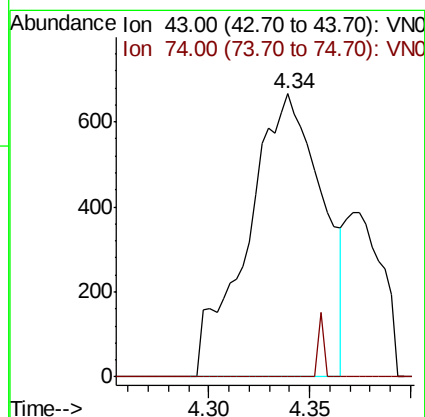
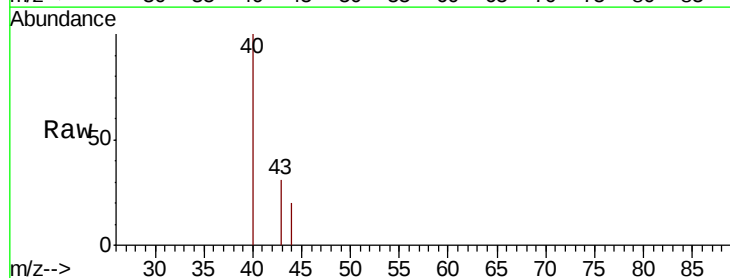
Acq: 20 Jun 2019 9:58

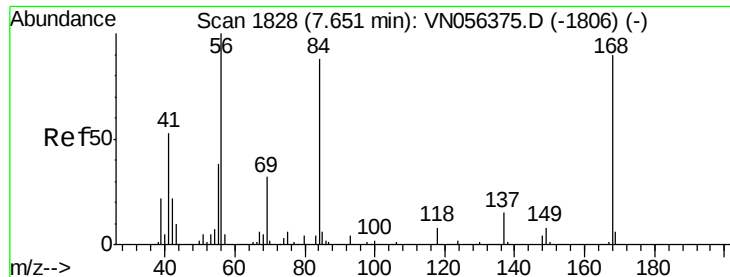
Tgt Ion: 43 Resp: 1712

Ion Ratio Lower Upper

43 100

74 1.7 19.2 28.8#

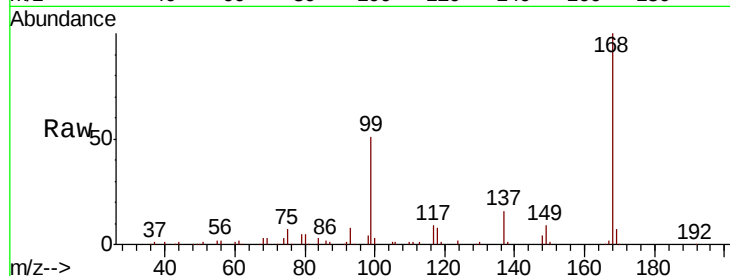




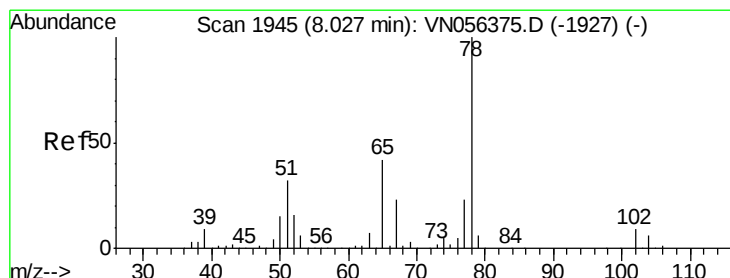
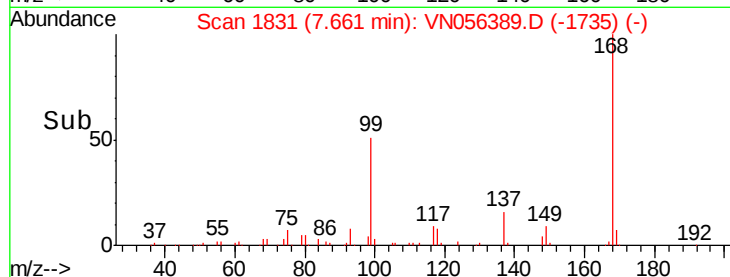
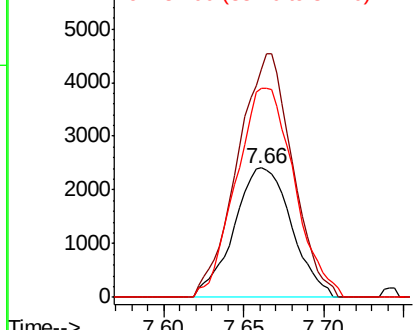
#31
Cyclohexane
Concen: 0.974 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN056389.D
Acq: 20 Jun 2019 9:58

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 5945
Ion Ratio Lower Upper
56 100
69 176.3 25.8 38.6#
84 161.9 69.4 104.0#

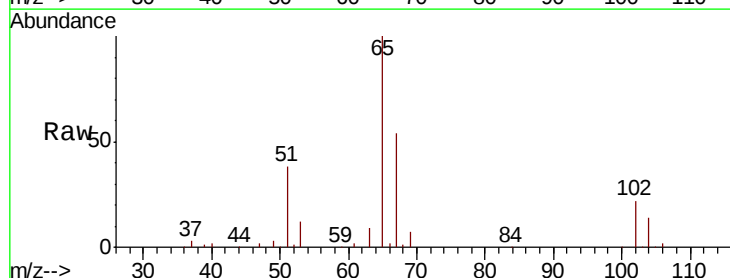


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

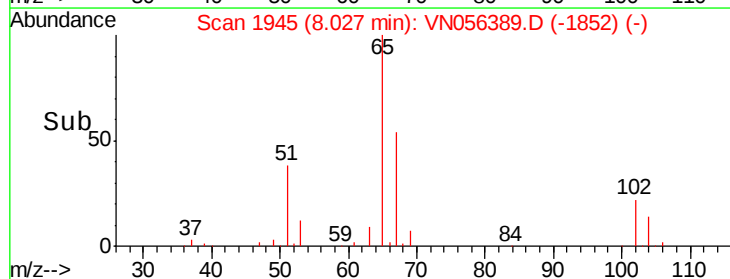
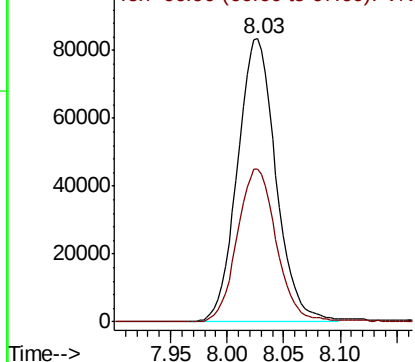


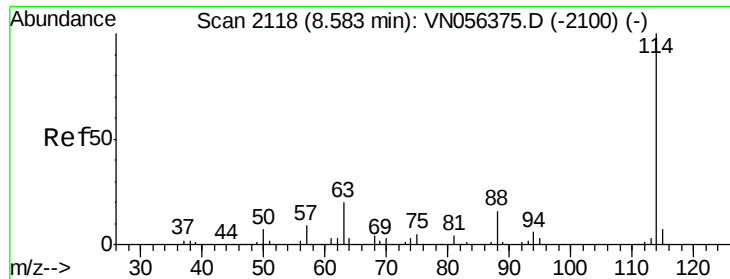
#33
1,2-Dichloroethane-d4
Concen: 50.030 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN056389.D
Acq: 20 Jun 2019 9:58

Tgt Ion: 65 Resp: 197754
Ion Ratio Lower Upper
65 100
67 55.3 0.0 109.0



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

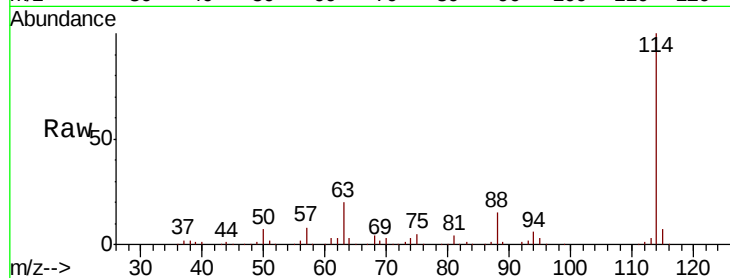




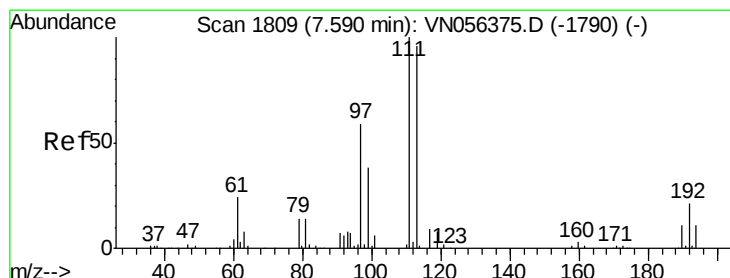
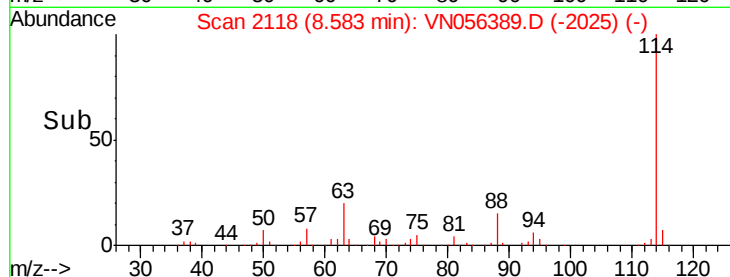
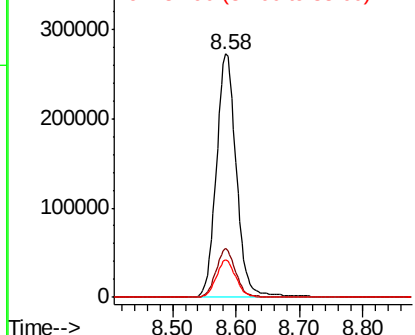
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056389.D
 Acq: 20 Jun 2019 9:58

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	39.2
88	15.5	0.0	31.4

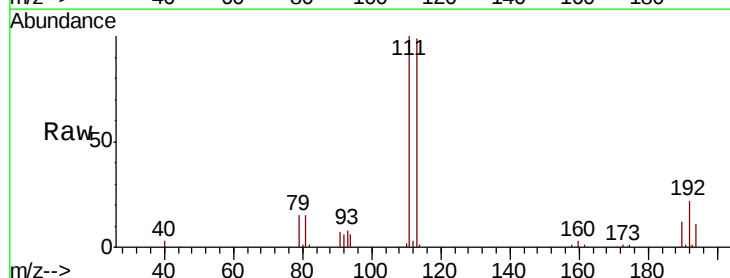


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

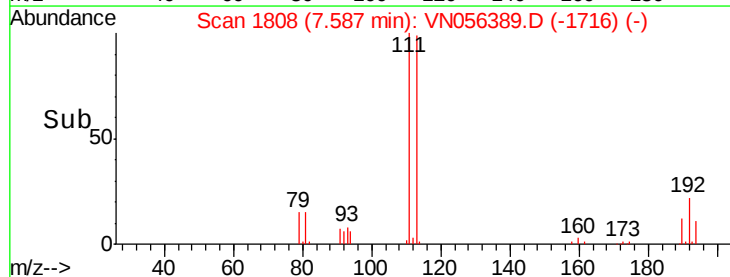
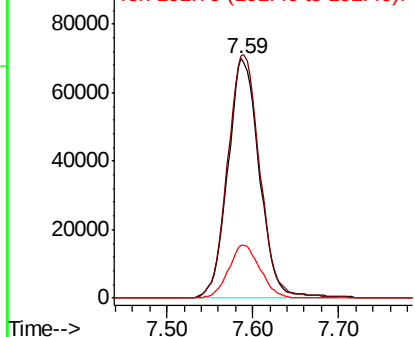


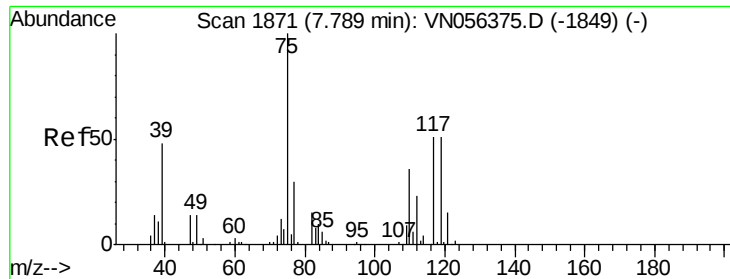
#35
 Dibromofluoromethane
 Concen: 47.905 ug/l
 RT: 7.59 min Scan# 1808
 Delta R.T. -0.00 min
 Lab File: VN056389.D
 Acq: 20 Jun 2019 9:58

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.1	82.9	124.3
192	22.2	17.7	26.5



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

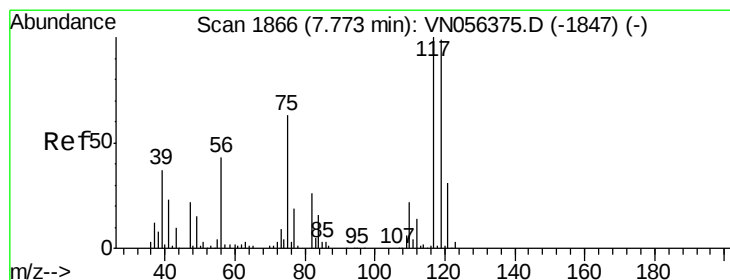
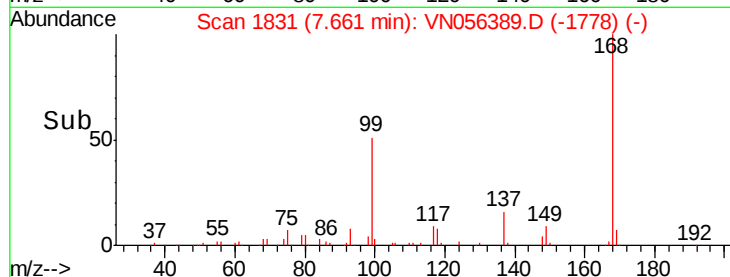
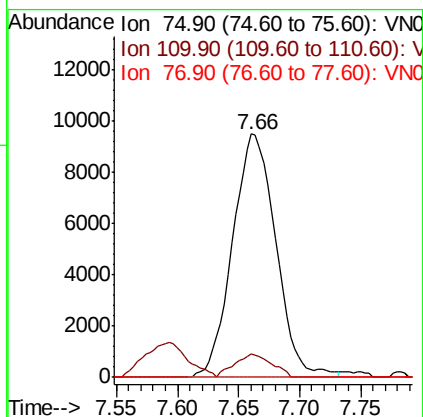
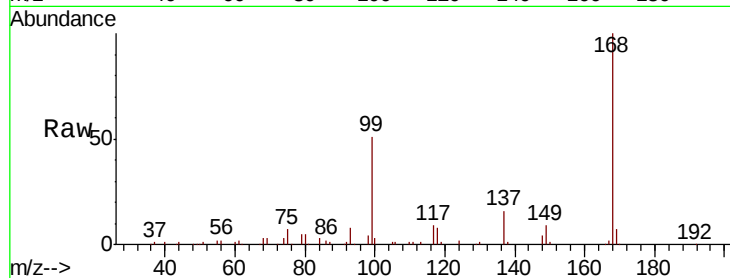




#36
 1,1-Dichloropropene
 Concen: 4.460 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN056389.D
 Acq: 20 Jun 2019 9:58

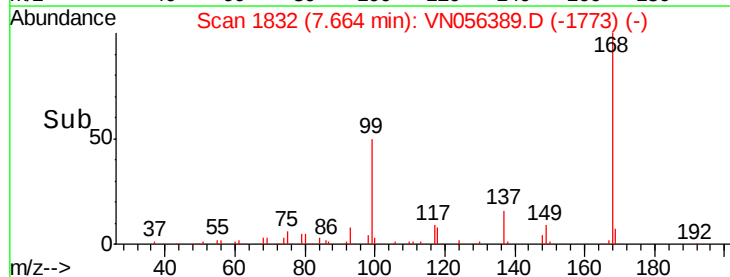
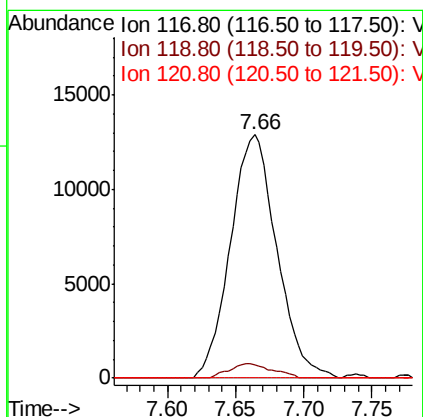
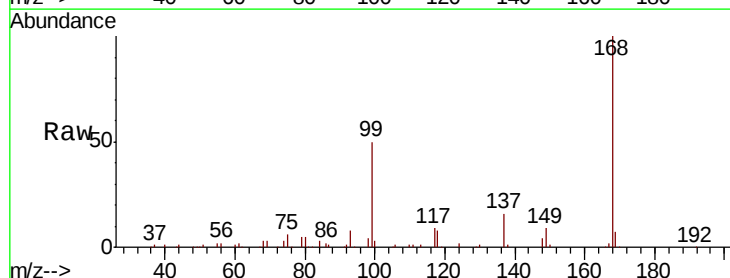
Instrument :
 MSVOA_N
 ClientSampleId :

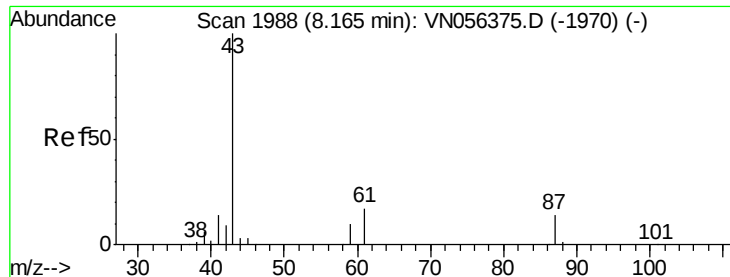
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.1	18.1	54.3#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.626 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN056389.D
 Acq: 20 Jun 2019 9:58

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.6	79.1	118.7#
121	0.0	24.8	37.2#





#43

Isopropyl Acetate

Concen: 1.210 ug/l

RT: 8.32 min Scan# 2035

Delta R.T. 0.15 min

Lab File: VN056389.D

Acq: 20 Jun 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

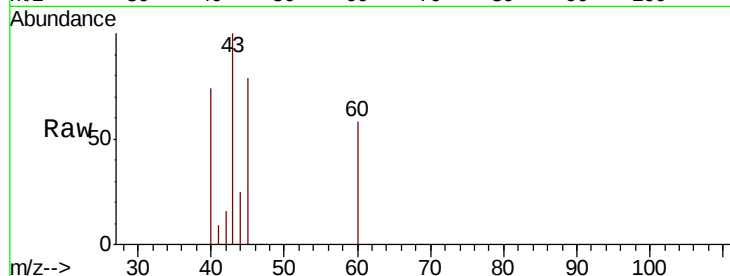
Tot Ion: 43 Resp: 9611

Ion Ratio Lower Upper

43 100

61 0.0 22.0 33.0#

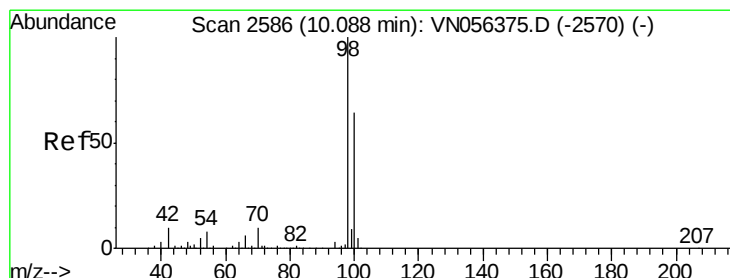
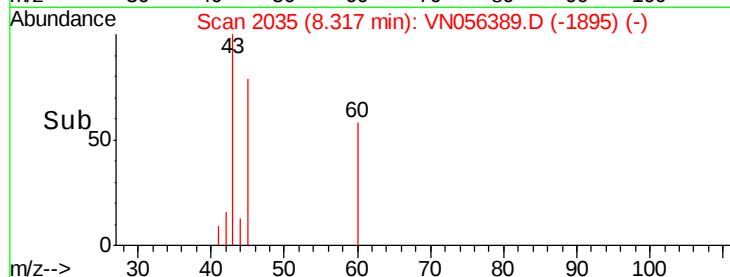
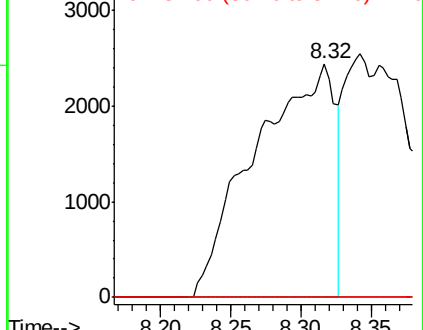
87 0.0 11.0 16.4#



Abundance Ion 43.00 (42.70 to 43.70): VN056375.D (-1970) (-)

Ion 61.00 (60.70 to 61.70): VN056375.D (-1970) (-)

Ion 87.00 (86.70 to 87.70): VN056375.D (-1970) (-)



#50

Toluene-d8

Concen: 50.164 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056389.D

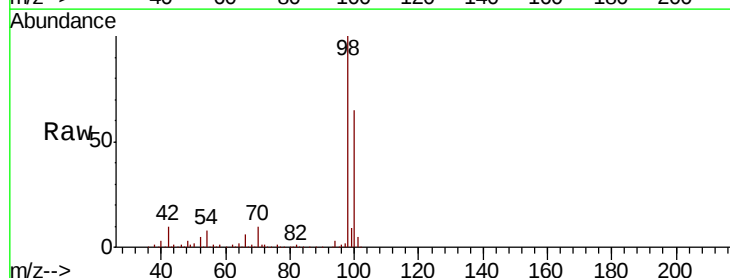
Acq: 20 Jun 2019 9:58

Tgt Ion: 98 Resp: 725246

Ion Ratio Lower Upper

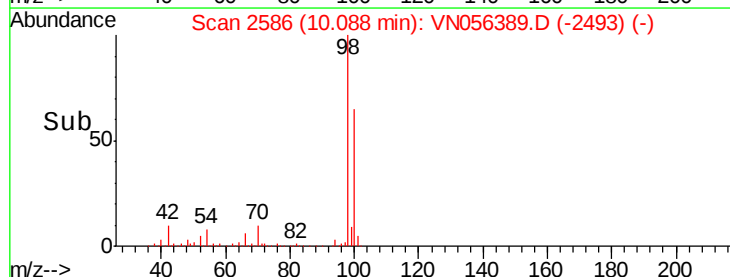
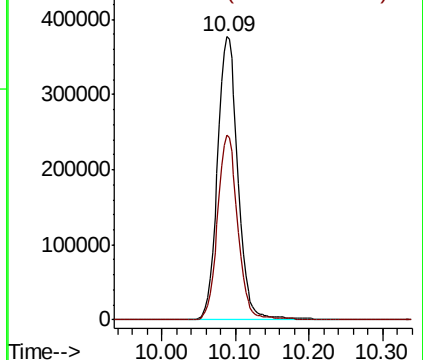
98 100

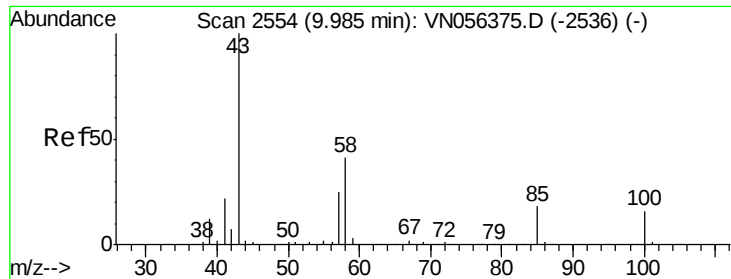
100 64.8 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN056375.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN056375.D (-2570) (-)





#51

4-Methyl-2-Pentanone

Concen: 0.314 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. -0.01 min

Lab File: VN056389.D

Acq: 20 Jun 2019 9:58

Instrument :

MSVOA_N

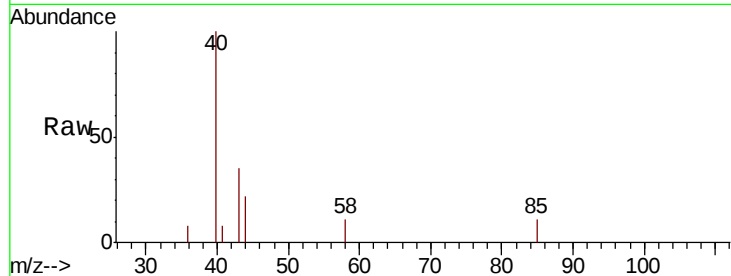
ClientSampled :

Tot Ion: 43 Resp: 1611

Ion Ratio Lower Upper

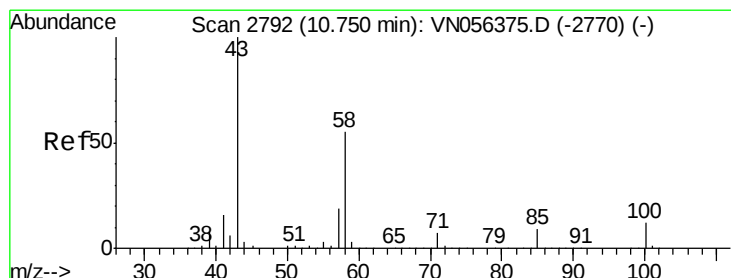
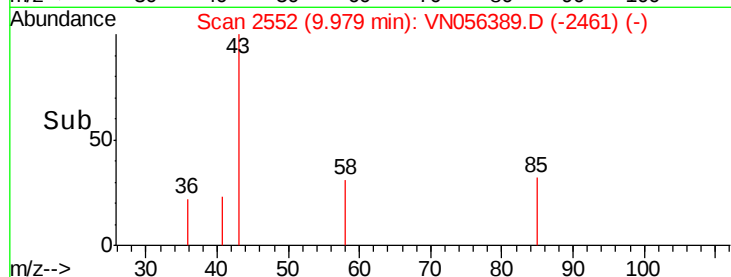
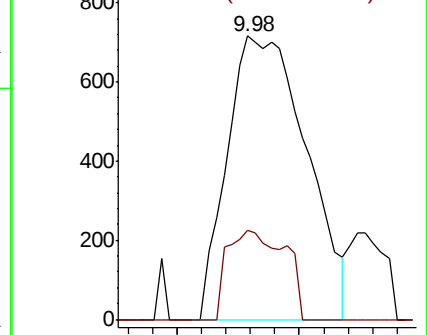
43 100

58 23.0 31.8 47.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#59

2-Hexanone

Concen: 0.484 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.01 min

Lab File: VN056389.D

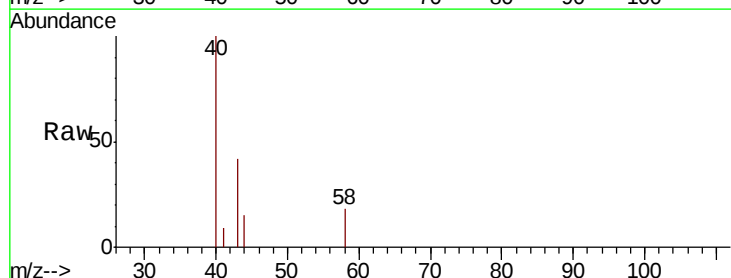
Acq: 20 Jun 2019 9:58

Tgt Ion: 43 Resp: 1824

Ion Ratio Lower Upper

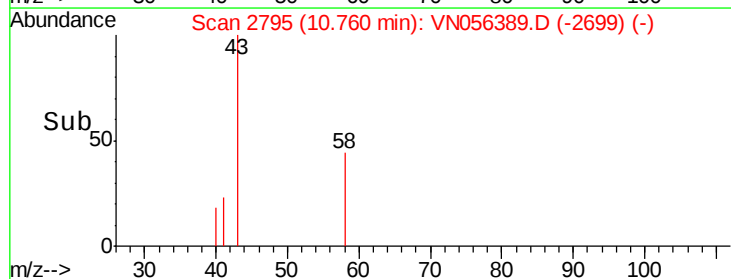
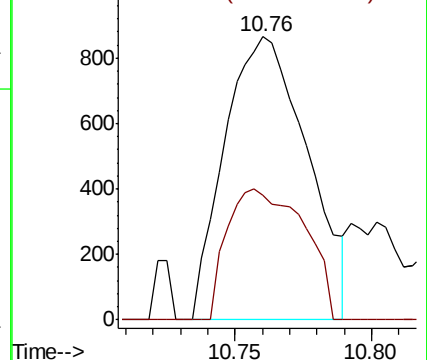
43 100

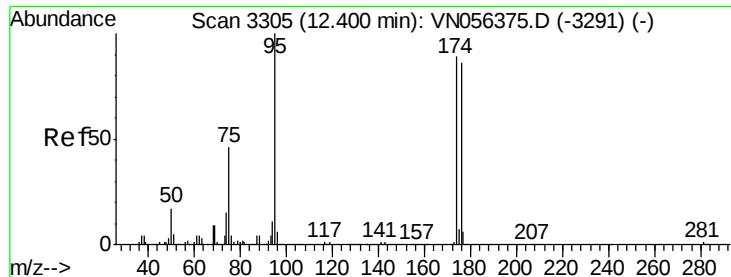
58 43.2 27.8 83.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

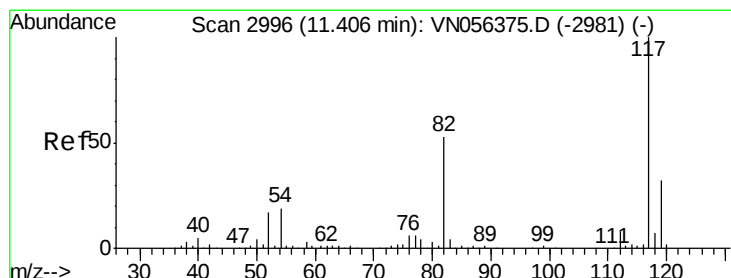
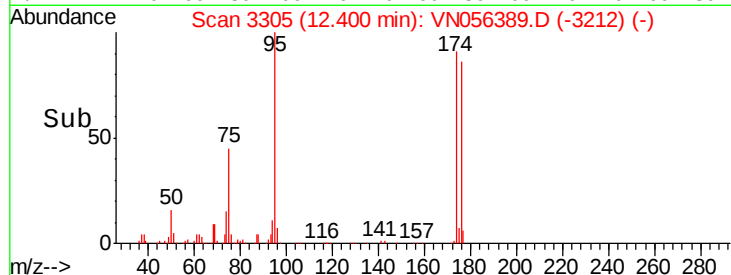
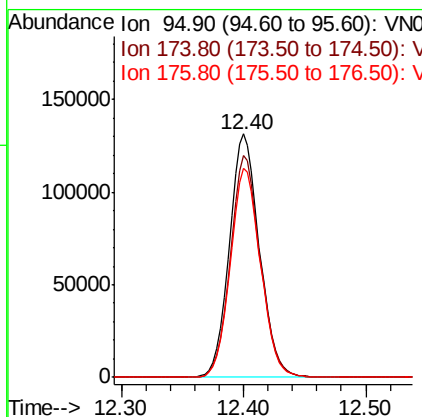
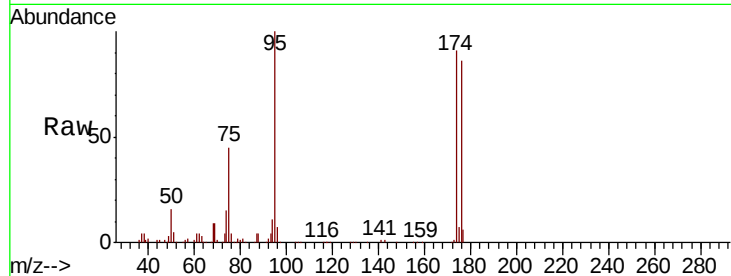




#62
4-Bromofluorobenzene
Concen: 46.690 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056389.D
Acq: 20 Jun 2019 9:58

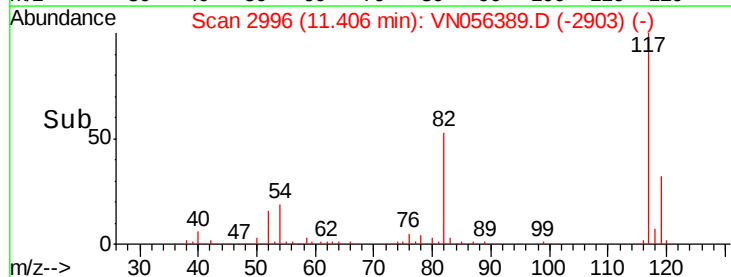
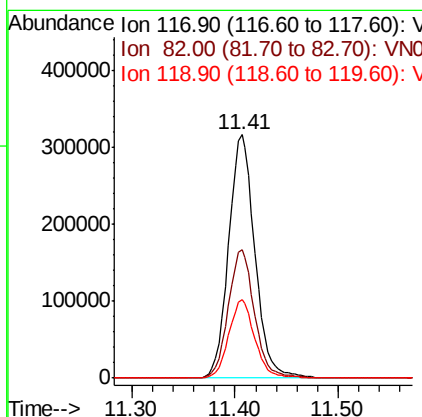
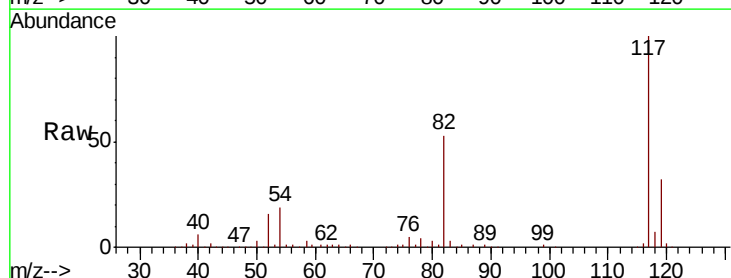
Instrument :
MSVOA_N
ClientSampleId :

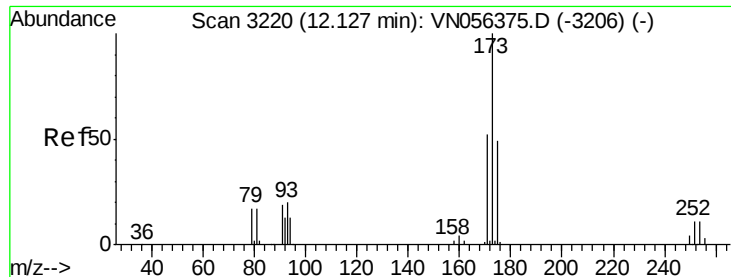
Tot Ion: 95 Resp: 225025
Ion Ratio Lower Upper
95 100
174 90.8 0.0 179.4
176 86.5 0.0 173.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056389.D
Acq: 20 Jun 2019 9:58

Tgt Ion: 117 Resp: 561531
Ion Ratio Lower Upper
117 100
82 52.6 42.0 63.0
119 32.1 25.3 37.9





#71

Bromoform

Concen: 3.583 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056389.D

Acq: 20 Jun 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

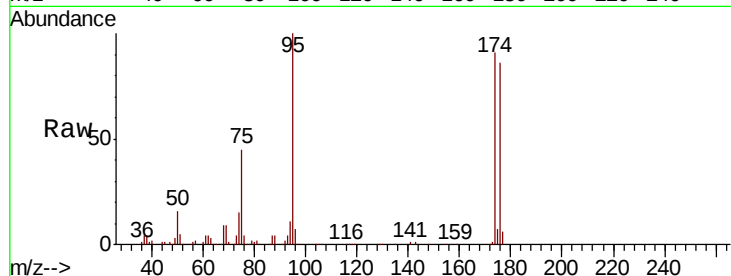
Tot Ion:173 Resp: 1445

Ion Ratio Lower Upper

173 100

175 893.9 24.4 73.4#

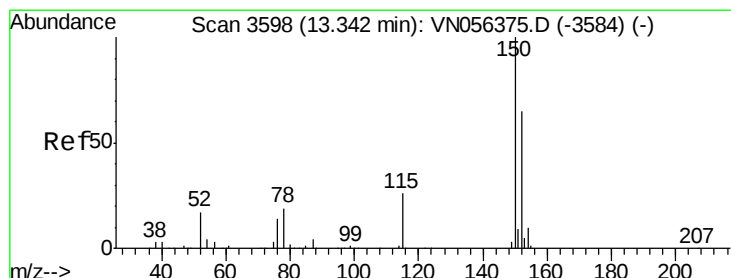
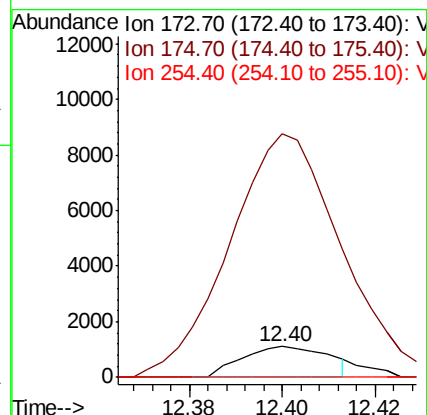
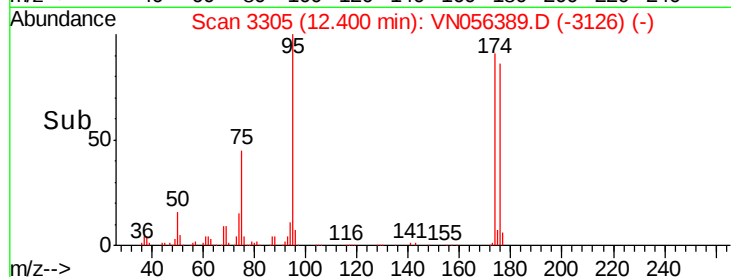
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN056389.D

Acq: 20 Jun 2019 9:58

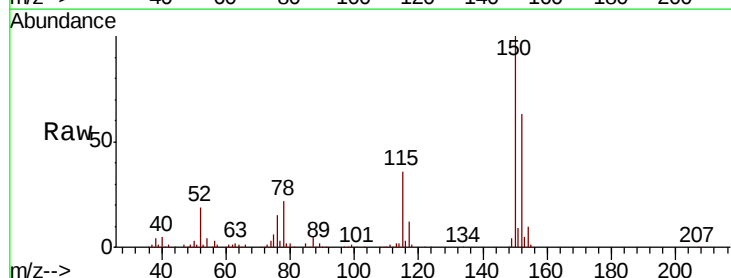
Tgt Ion:152 Resp: 158690

Ion Ratio Lower Upper

152 100

115 55.8 28.1 84.4

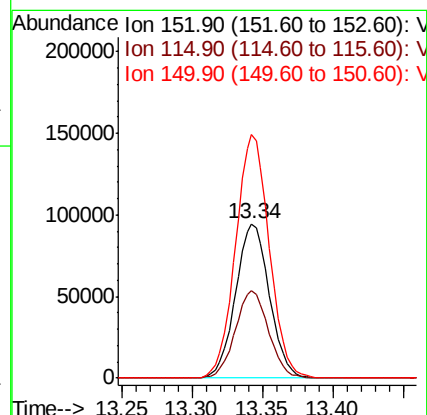
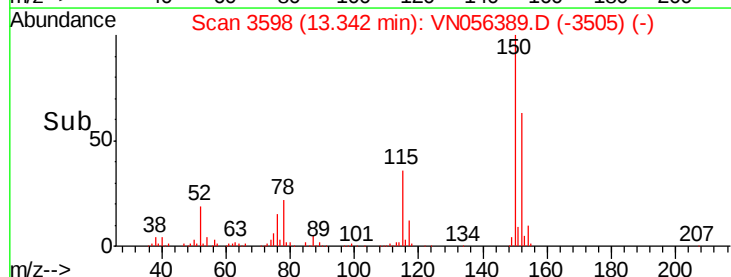
150 157.2 0.0 348.4

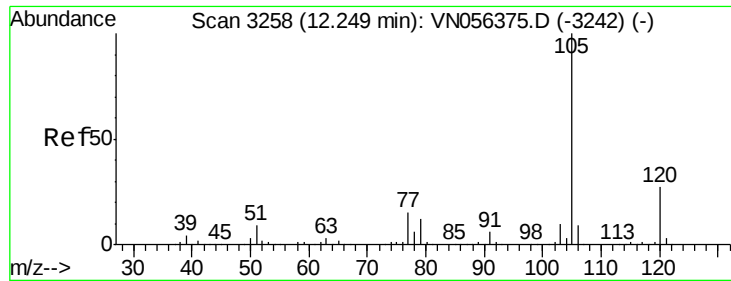


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN056389.D

Acq: 20 Jun 2019 9:58

Instrument :

MSVOA_N

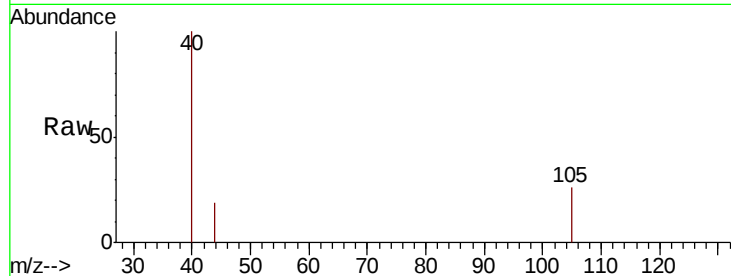
ClientSampled :

Tot Ion:105 Resp: 639

Ion Ratio Lower Upper

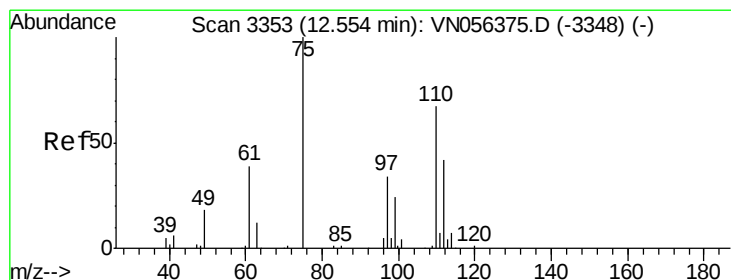
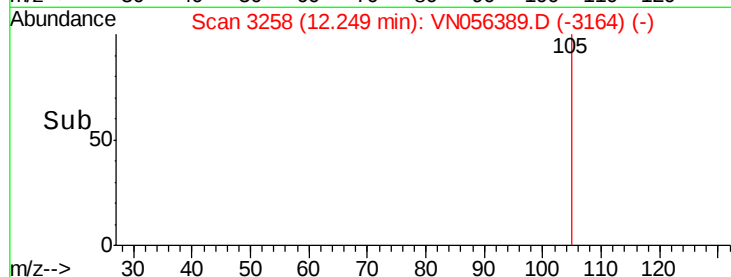
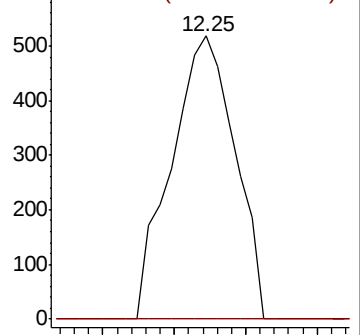
105 100

120 0.0 13.4 40.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

1,2,3-Trichloropropane

Concen: 31.381 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056389.D

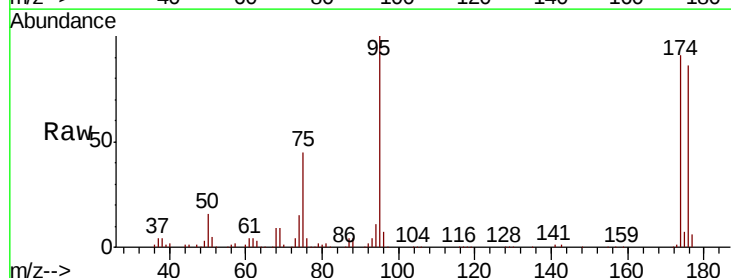
Acq: 20 Jun 2019 9:58

Tgt Ion: 75 Resp: 103258

Ion Ratio Lower Upper

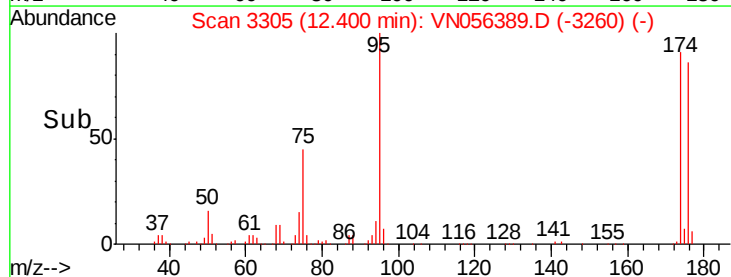
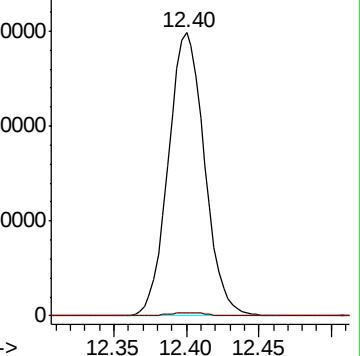
75 100

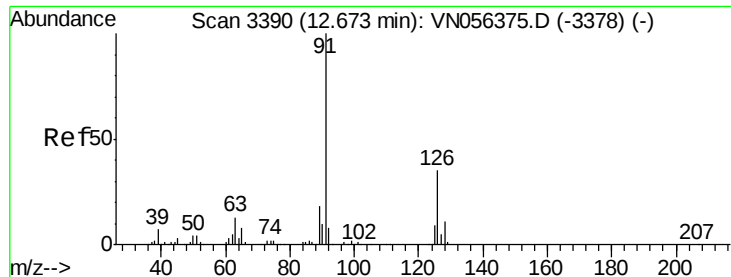
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN056389.D

Acq: 20 Jun 2019 9:58

Instrument :

MSVOA_N

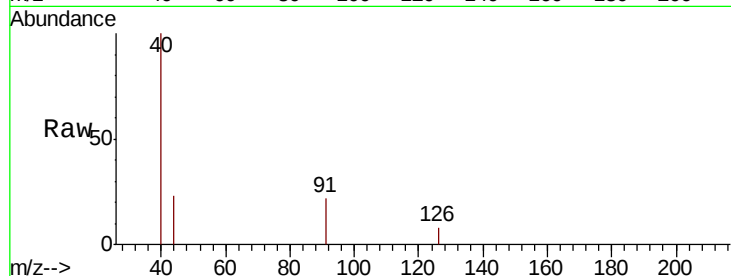
ClientSampled :

Tot Ion: 91 Resp: 768

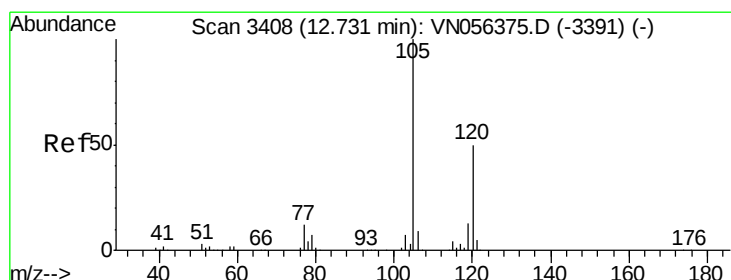
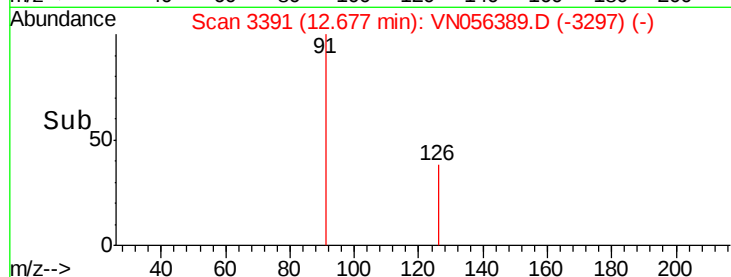
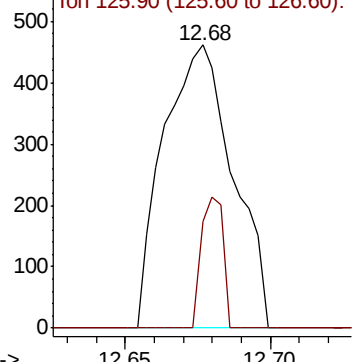
Ion Ratio Lower Upper

91 100

126 14.8 17.6 52.8#



Abundance Ion 91.00 (90.70 to 91.70): VN056375.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN056389.D

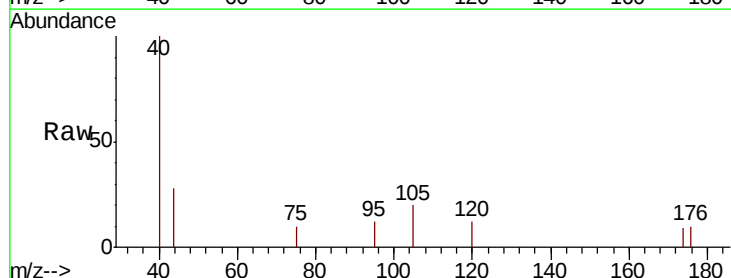
Acq: 20 Jun 2019 9:58

Tgt Ion: 105 Resp: 701

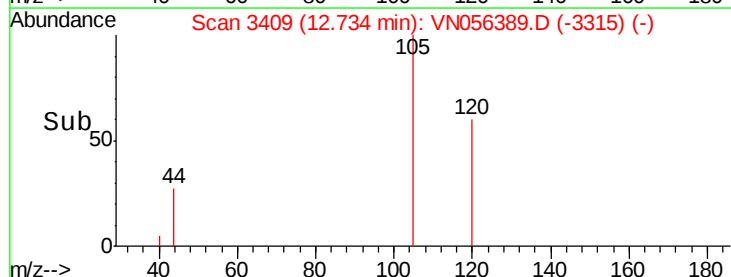
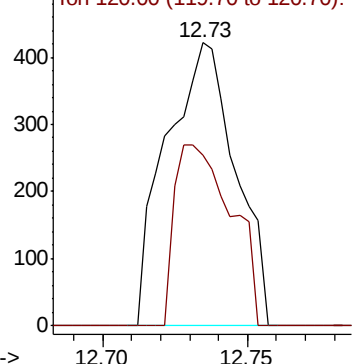
Ion Ratio Lower Upper

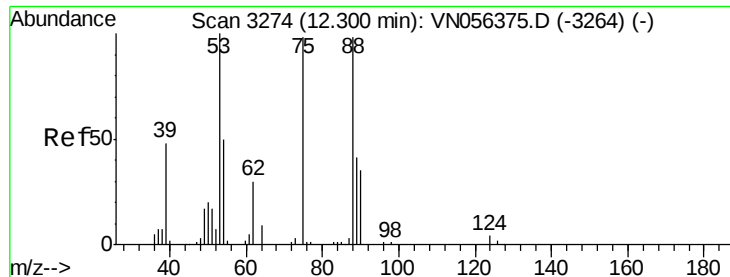
105 100

120 52.6 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): VN056375.D (-3391) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 111.533 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056389.D

Acq: 20 Jun 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

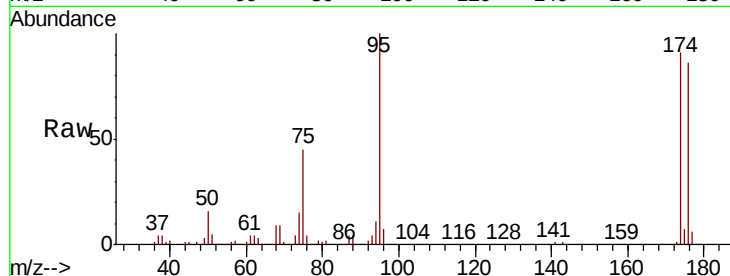
Tot Ion: 75 Resp: 103258

Ion Ratio Lower Upper

75 100

53 0.0 83.9 125.9#

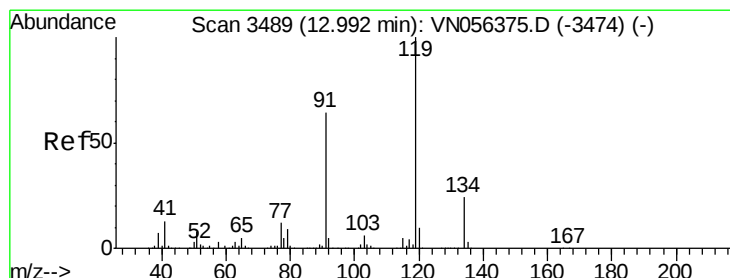
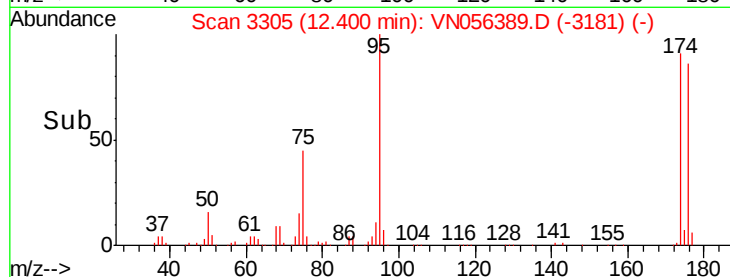
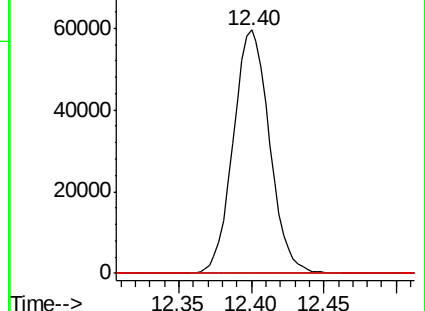
89 0.0 35.0 52.6#



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



#83

tert-Butylbenzene

Concen: Below Cal

RT: 13.00 min Scan# 3491

Delta R.T. 0.01 min

Lab File: VN056389.D

Acq: 20 Jun 2019 9:58

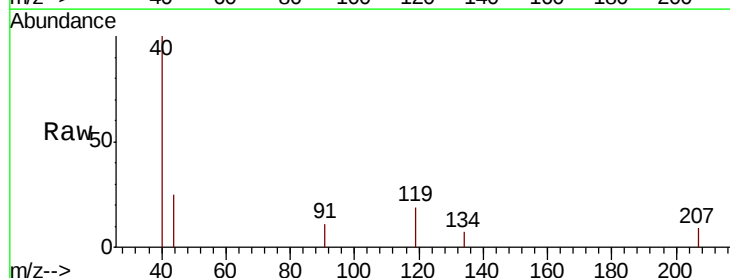
Tgt Ion: 119 Resp: 554

Ion Ratio Lower Upper

119 100

91 77.3 31.6 94.7

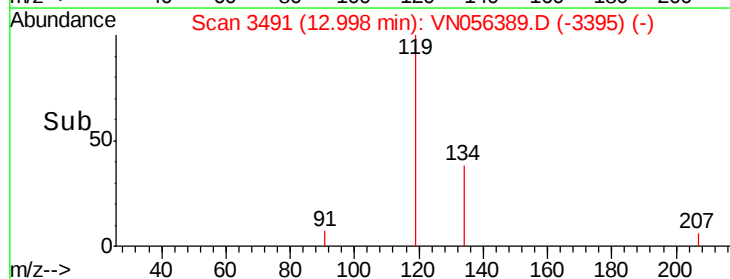
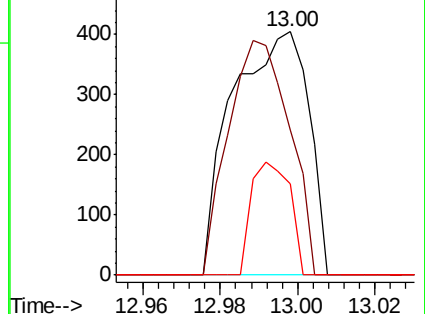
134 23.5 13.2 39.5

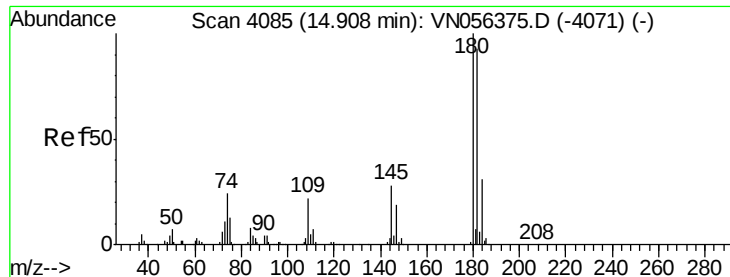


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN0

Ion 134.00 (133.70 to 134.70): V





#93

1,2,4-Trichlorobenzene

Concen: 6.083 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN056389.D

Acq: 20 Jun 2019 9:58

Instrument :

MSVOA_N

ClientSampleId :

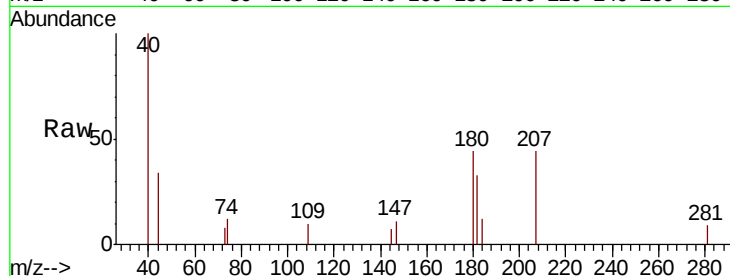
Tot Ion:180 Resp: 1468

Ion Ratio Lower Upper

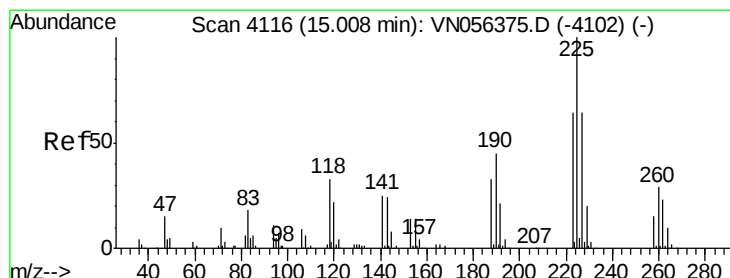
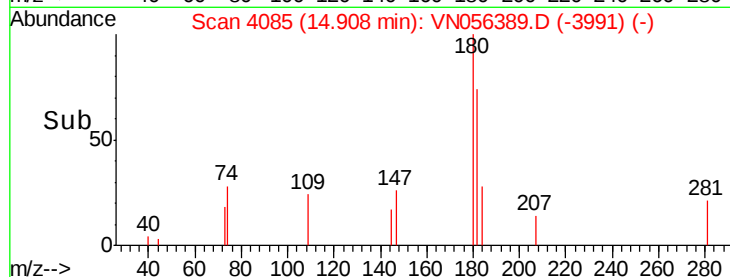
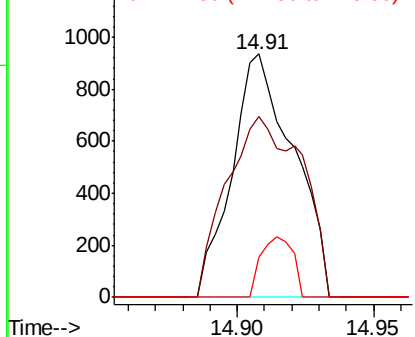
180 100

182 90.7 46.9 140.6

145 12.7 14.4 43.0#



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: Below Cal

RT: 15.01 min Scan# 4118

Delta R.T. 0.01 min

Lab File: VN056389.D

Acq: 20 Jun 2019 9:58

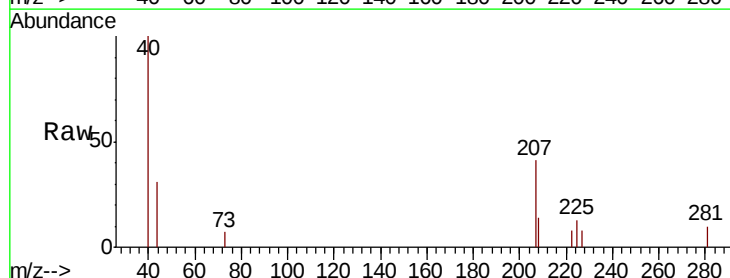
Tgt Ion:225 Resp: 276

Ion Ratio Lower Upper

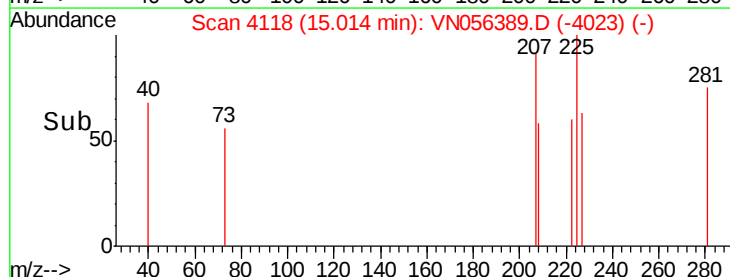
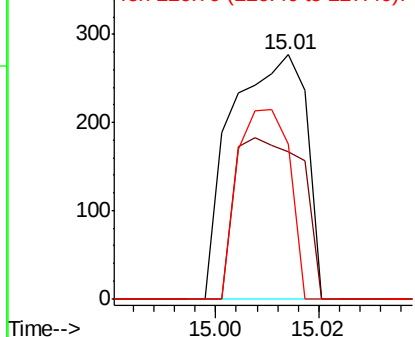
225 100

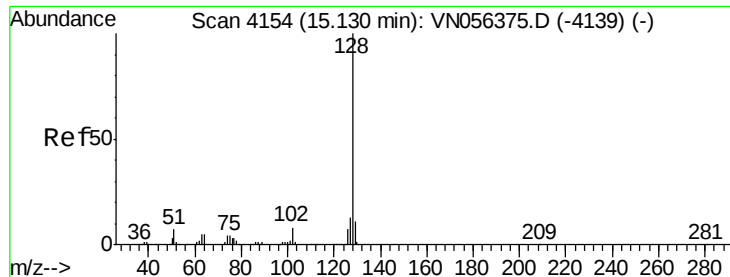
223 59.4 31.4 94.3

227 54.0 32.1 96.3



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: 5.829 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN056389.D

Acq: 20 Jun 2019 9:58

Instrument :

MSVOA_N

ClientSampled :

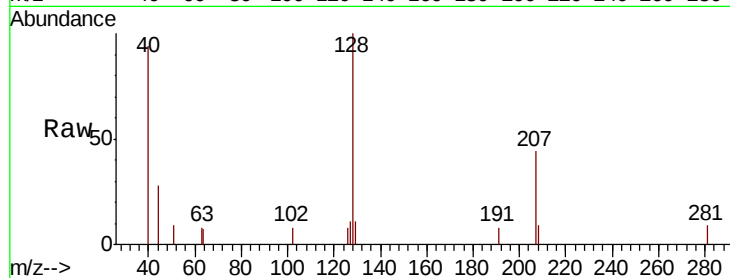
Tot Ion:128 Resp: 4736

Ion Ratio Lower Upper

128 100

127 8.7 10.2 15.2#

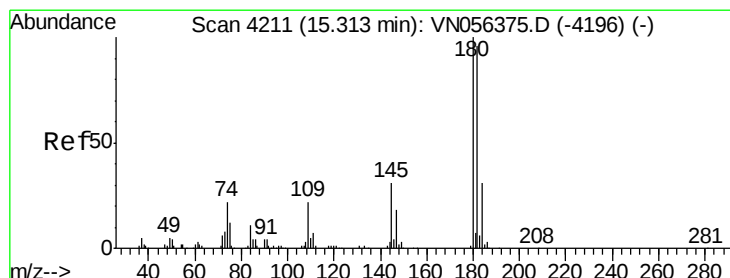
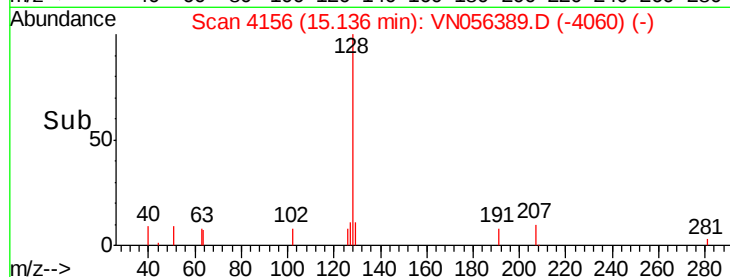
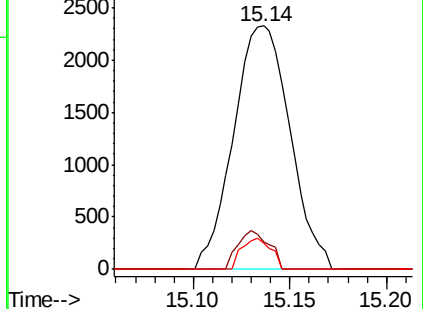
129 6.5 8.6 12.8#



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: 5.147 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN056389.D

Acq: 20 Jun 2019 9:58

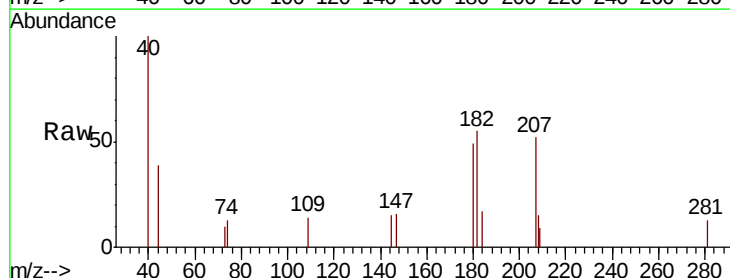
Tgt Ion:180 Resp: 2106

Ion Ratio Lower Upper

180 100

182 108.5 48.3 144.8

145 25.5 15.4 46.1



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

