

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051719\
 Data File : VN055612.D
 Acq On : 17 May 2019 15:59
 Operator : JC/SP
 Sample : K2918-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 18 03:09:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 23:54:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	420980	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	597786	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	498774	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	189672	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	199951	43.33	ug/l	0.00
Spiked Amount			Recovery	=	86.66%	
35) Dibromofluoromethane	7.59	113	181854	47.89	ug/l	0.00
Spiked Amount			Recovery	=	95.78%	
50) Toluene-d8	10.09	98	691655	48.17	ug/l	0.00
Spiked Amount			Recovery	=	96.34%	
62) 4-Bromofluorobenzene	12.40	95	217422	43.85	ug/l	0.00
Spiked Amount			Recovery	=	87.70%	

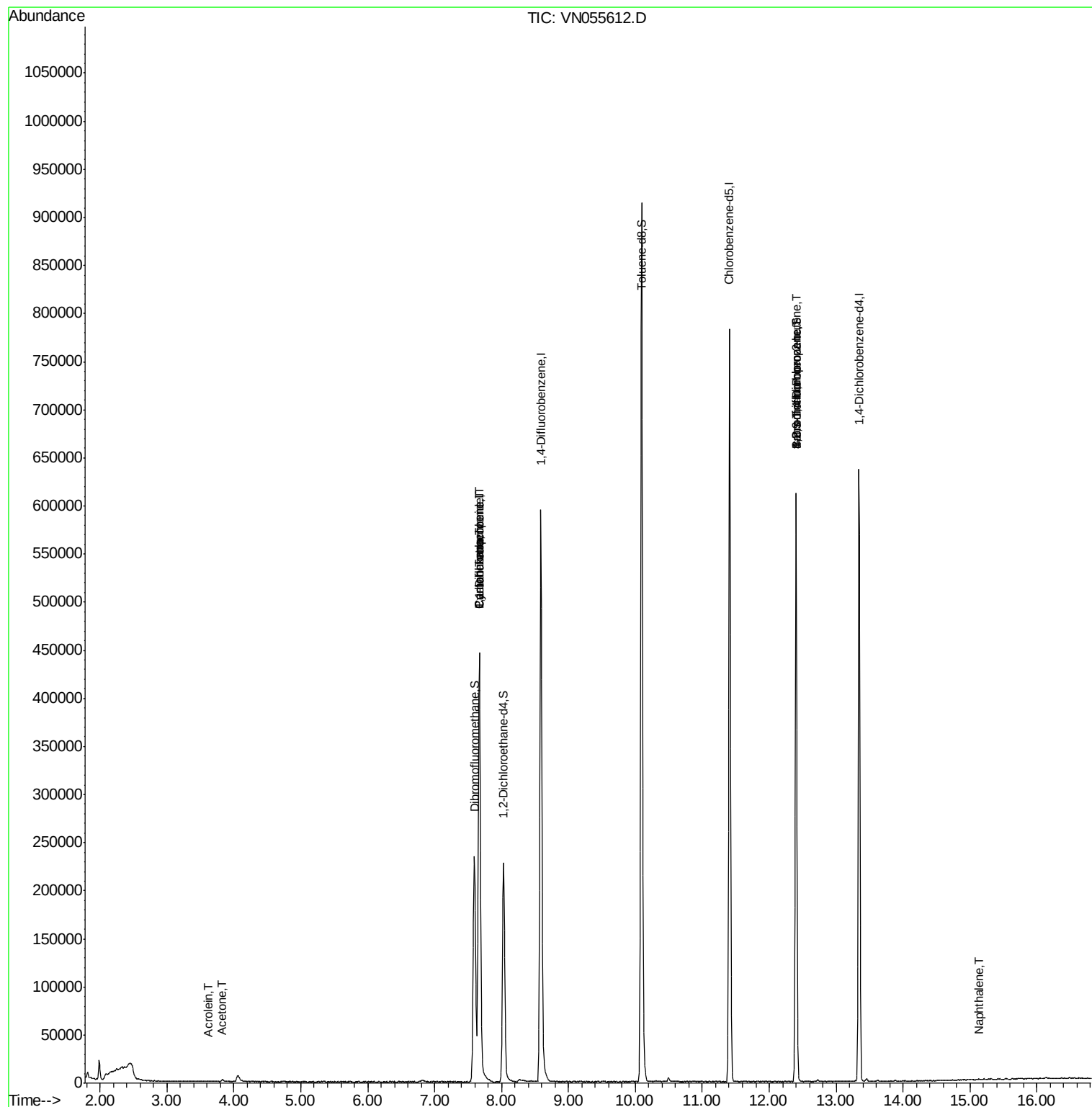
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.62	56	454	2.391	ug/l #	49
16) Acetone	3.83	43	3012	1.599	ug/l	97
31) Cyclohexane	7.67	56	6615	0.967	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	25939	4.867	ug/l #	49
38) Carbon Tetrachloride	7.67	117	34994	6.144	ug/l #	15
71) Bromoform	12.40	173	1507	0.438	ug/l #	1
73) Isopropylbenzene	12.25	105	328	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	99338	25.667	ug/l #	100
79) 2-Chlorotoluene	12.67	91	267	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.74	105	320	Below Cal	#	28
81) trans-1,4-Dichloro-2-buten	12.40	75	99338	65.979	ug/l #	17
83) tert-Butylbenzene	13.00	119	29	Below Cal	#	1
84) 1,2,4-Trimethylbenzene	13.04	105	256	Below Cal		89
85) sec-Butylbenzene	13.17	105	503	Below Cal	#	56
86) p-Isopropyltoluene	13.29	119	604	Below Cal	#	60
95) Naphthalene	15.14	128	775	1.840	ug/l #	69

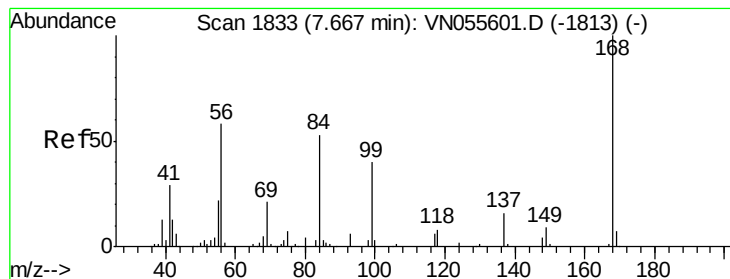
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN055612.D

Acq: 17 May 2019 15:59

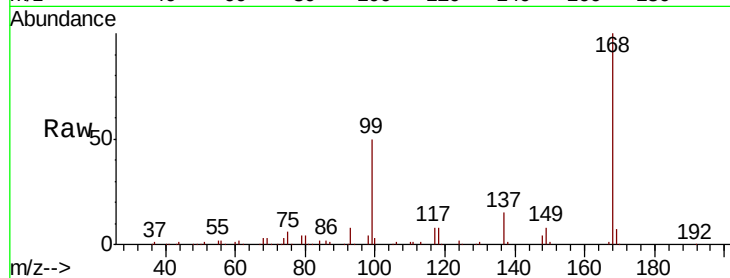
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 420980

Ion Ratio Lower Upper

168 100

99 49.6 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN055612.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN055612.D (-1740) (-)

7.67

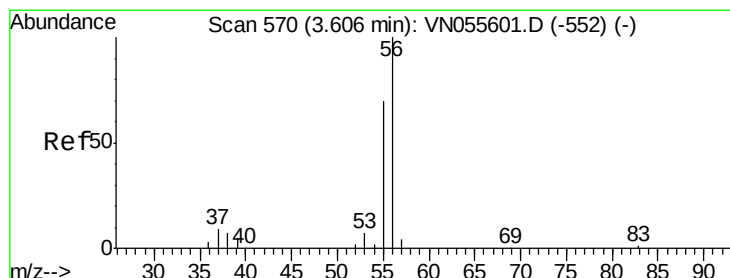
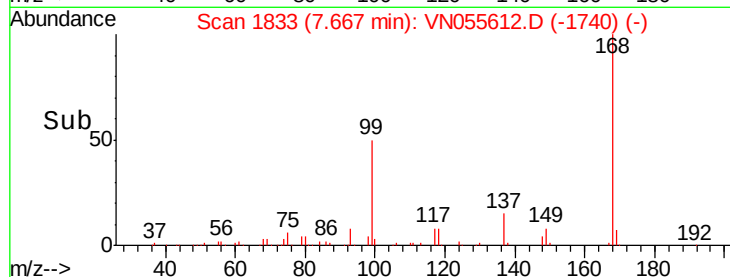
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#13

Acrolein

Concen: 2.391 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN055612.D

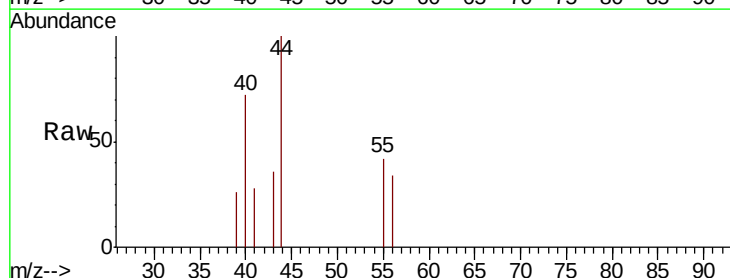
Acq: 17 May 2019 15:59

Tgt Ion: 56 Resp: 454

Ion Ratio Lower Upper

56 100

55 28.6 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VN055612.D (-477) (-)

Ion 55.00 (54.70 to 55.70): VN055612.D (-477) (-)

3.62

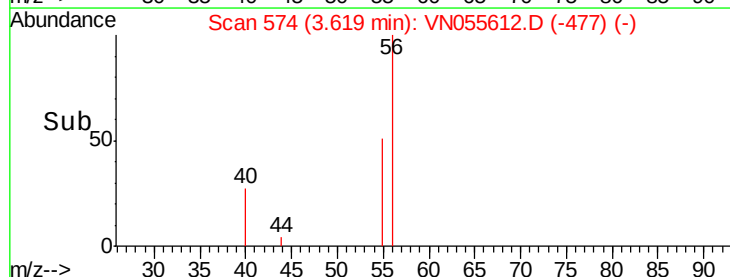
300

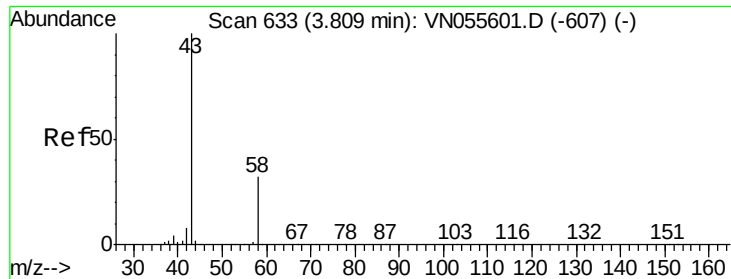
200

100

0

Time--> 3.58 3.60 3.62 3.64 3.66





#16

Acetone

Concen: 1.599 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.02 min

Lab File: VN055612.D

Acq: 17 May 2019 15:59

Instrument :

MSVOA_N

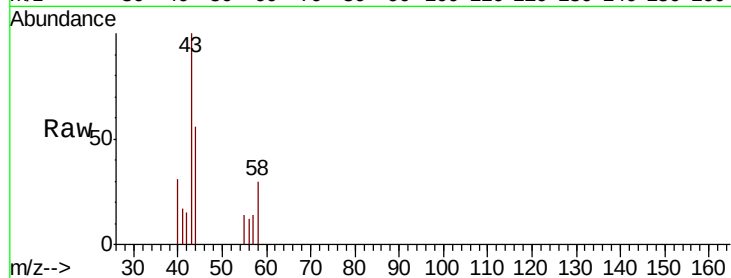
ClientSampled :

Tot Ion: 43 Resp: 3012

Ion Ratio Lower Upper

43 100

58 34.3 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.83

1500

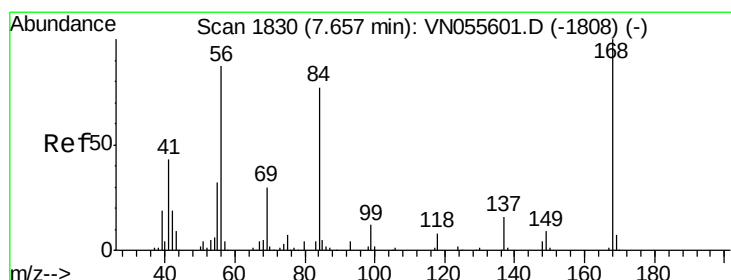
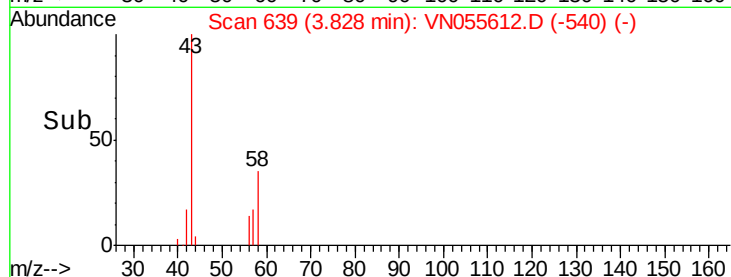
1000

500

0

Time-->

3.75 3.80 3.85 3.90



#31

Cyclohexane

Concen: 0.967 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.01 min

Lab File: VN055612.D

Acq: 17 May 2019 15:59

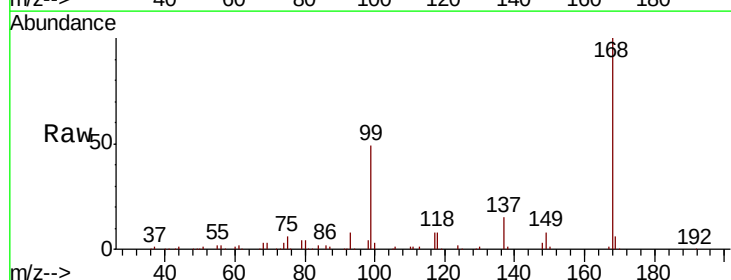
Tgt Ion: 56 Resp: 6615

Ion Ratio Lower Upper

56 100

69 195.9 27.2 40.8#

84 157.1 71.3 106.9#



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

6000

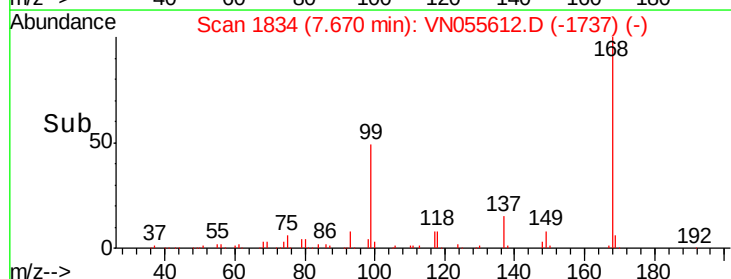
4000

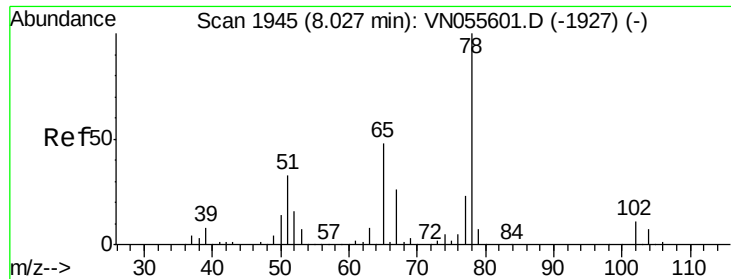
2000

0

Time-->

7.60 7.65 7.70 7.75

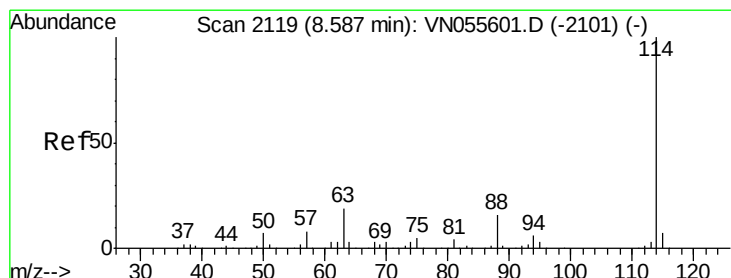
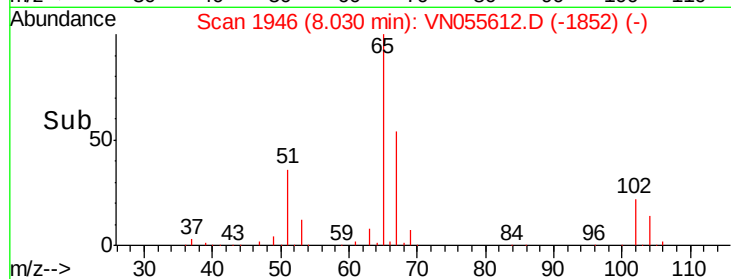
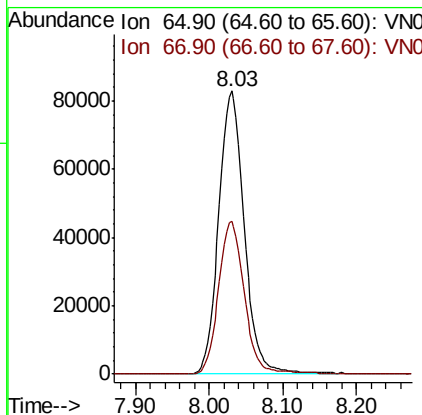
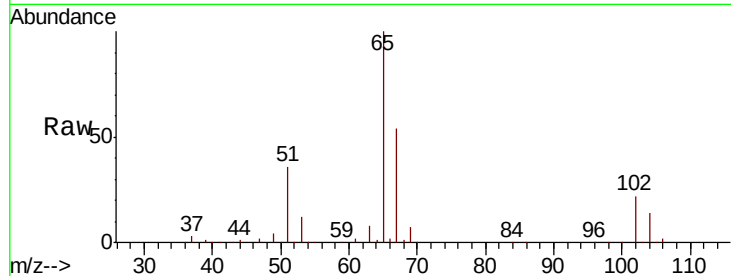




#33
 1,2-Dichloroethane-d4
 Concen: 43.328 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN055612.D
 Acq: 17 May 2019 15:59

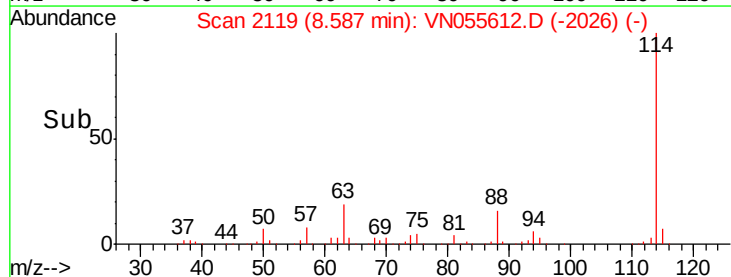
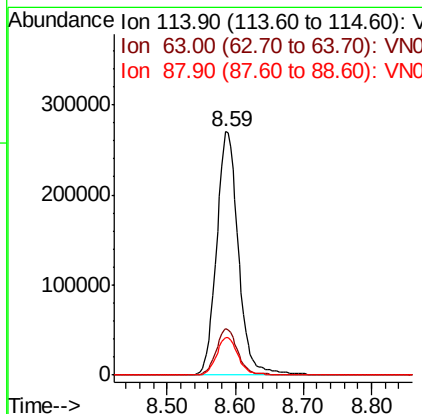
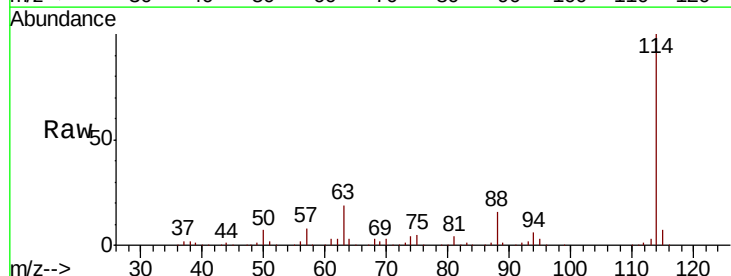
Instrument :
 MSVOA_N
 ClientSampleId :

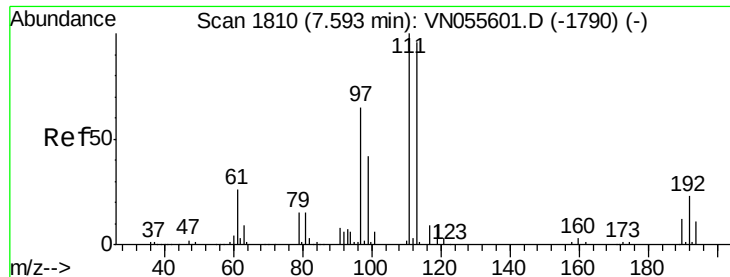
Tot Ion: 65 Resp: 199951
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN055612.D
 Acq: 17 May 2019 15:59

Tgt Ion: 114 Resp: 597786
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 38.2
 88 15.5 0.0 31.0





#35

Dibromofluoromethane

Concen: 47.889 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VN055612.D

Acq: 17 May 2019 15:59

Instrument :

MSVOA_N

ClientSampleId :

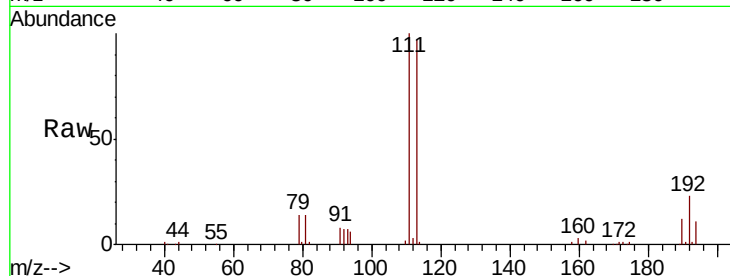
Tot Ion:113 Resp: 181854

Ion Ratio Lower Upper

113 100

111 103.9 82.5 123.7

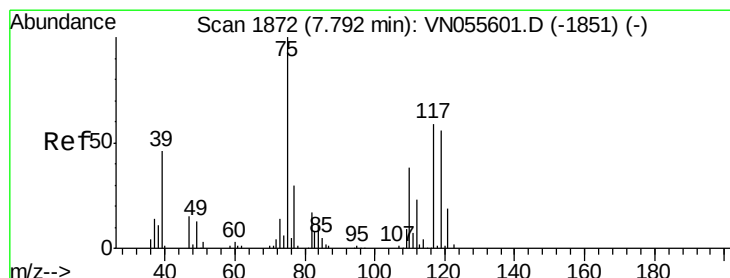
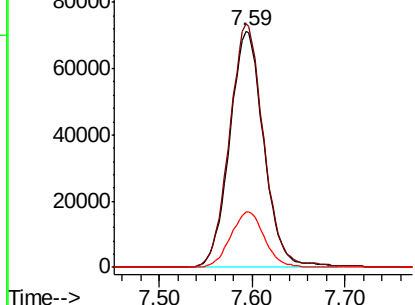
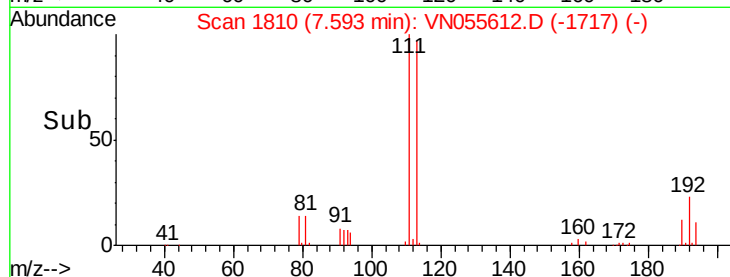
192 23.5 18.7 28.1



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: 4.867 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN055612.D

Acq: 17 May 2019 15:59

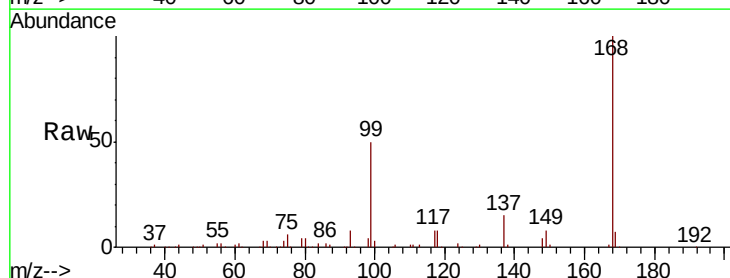
Tgt Ion: 75 Resp: 25939

Ion Ratio Lower Upper

75 100

110 8.9 18.6 55.6#

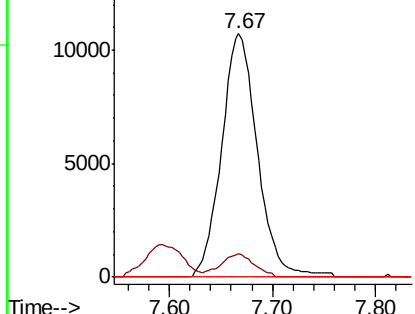
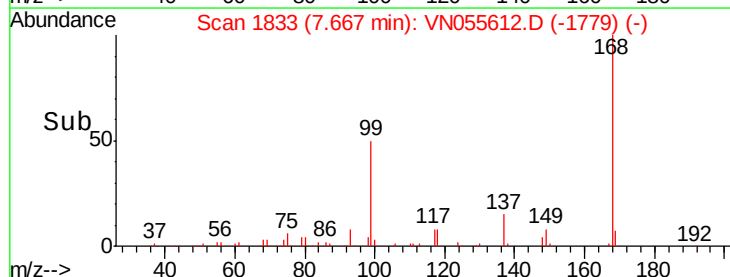
77 0.0 24.9 37.3#

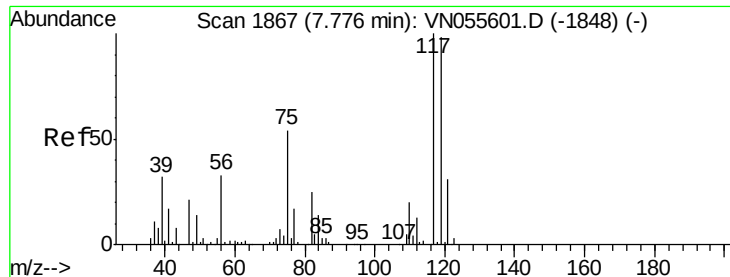


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

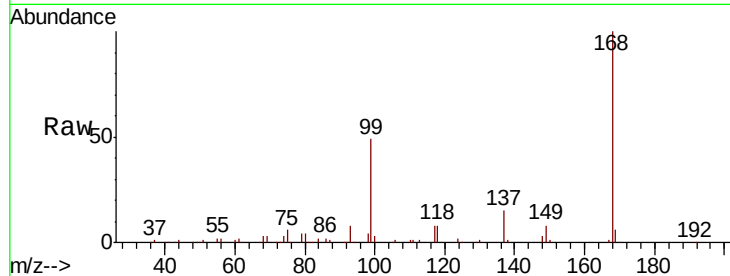




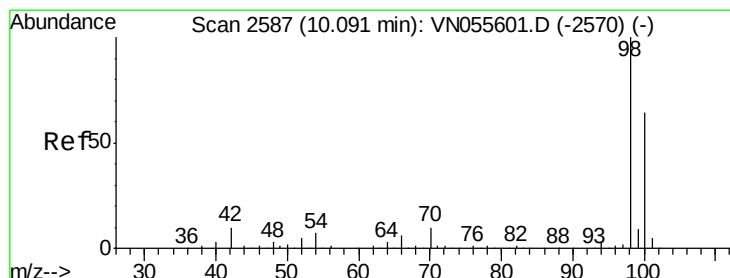
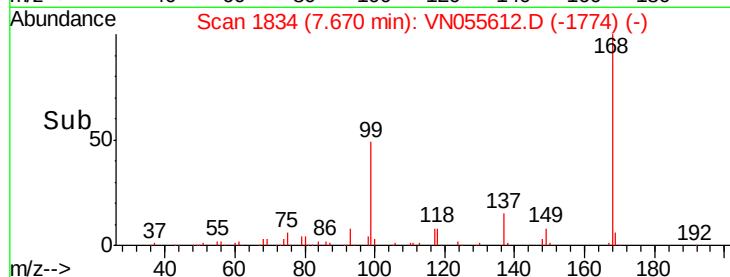
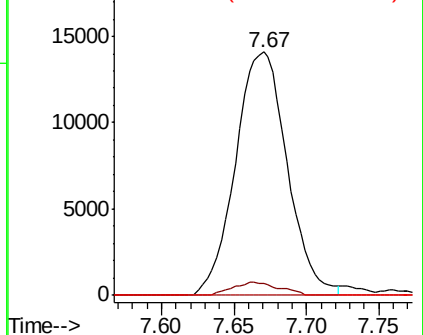
#38
Carbon Tetrachloride
Concen: 6.144 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. -0.11 min
Lab File: VN055612.D
Acq: 17 May 2019 15:59

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 34994
Ion Ratio Lower Upper
117 100
119 4.7 77.8 116.8#
121 0.0 24.6 37.0#

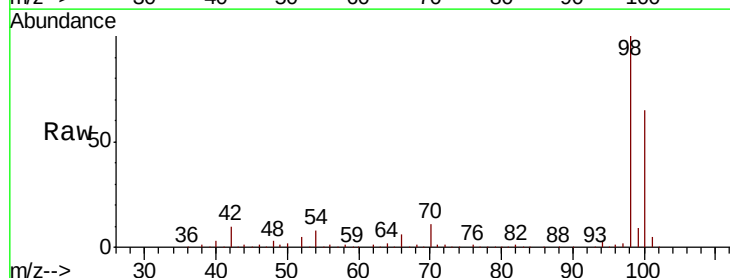


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

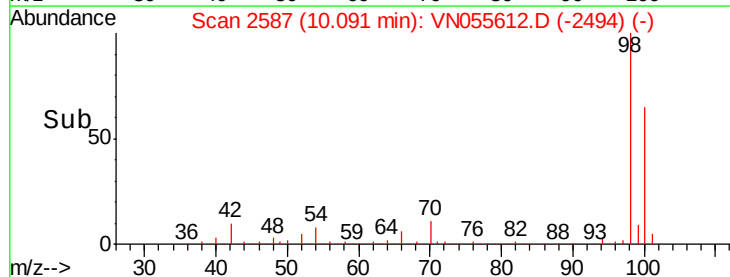
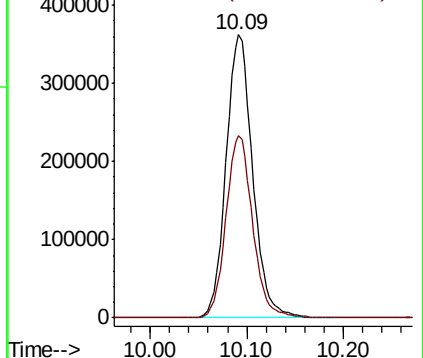


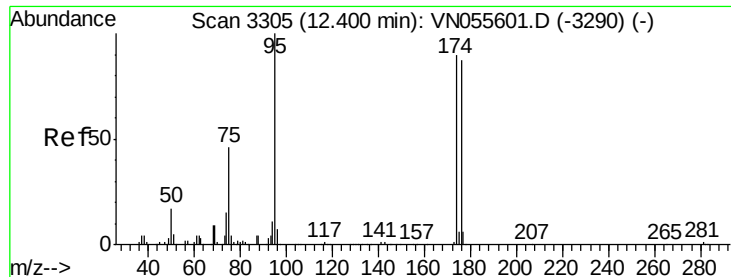
#50
Toluene-d8
Concen: 48.170 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN055612.D
Acq: 17 May 2019 15:59

Tgt Ion: 98 Resp: 691655
Ion Ratio Lower Upper
98 100
100 64.5 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN
Ion 100.00 (99.70 to 100.70): VN

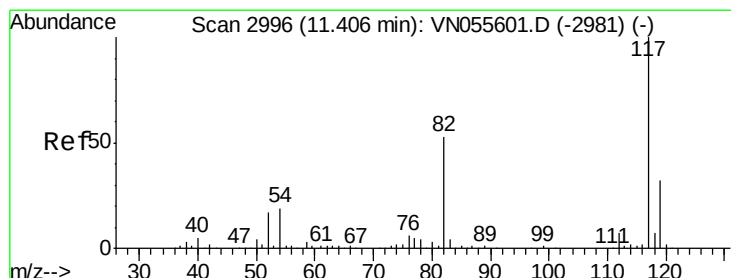
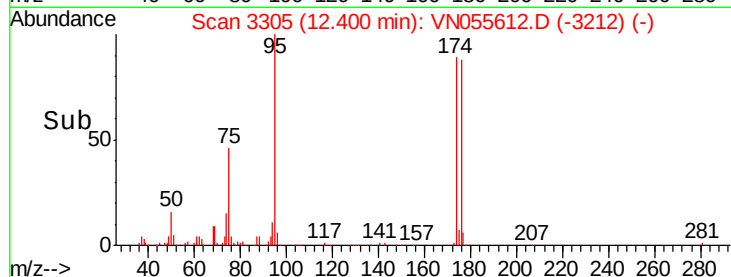
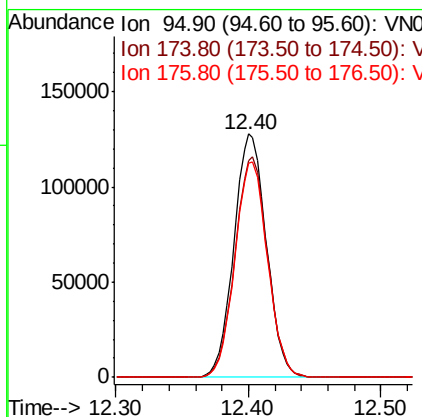
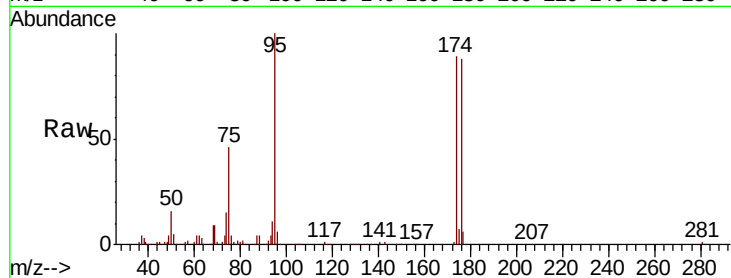




#62
4-Bromofluorobenzene
Concen: 43.851 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN055612.D
Acq: 17 May 2019 15:59

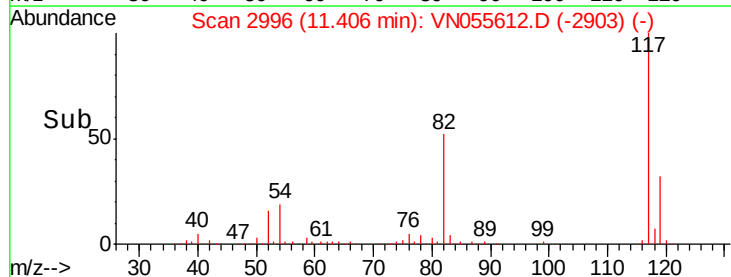
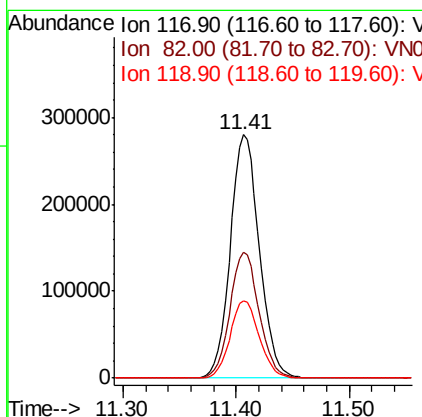
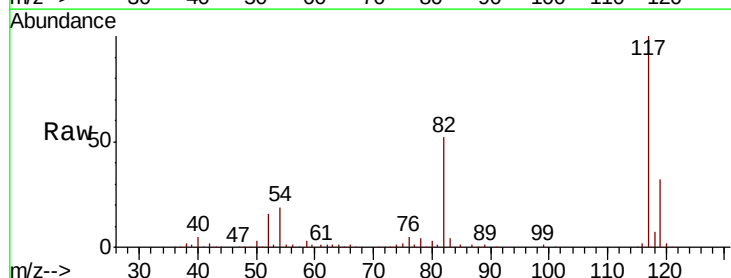
Instrument :
MSVOA_N
ClientSampleId :

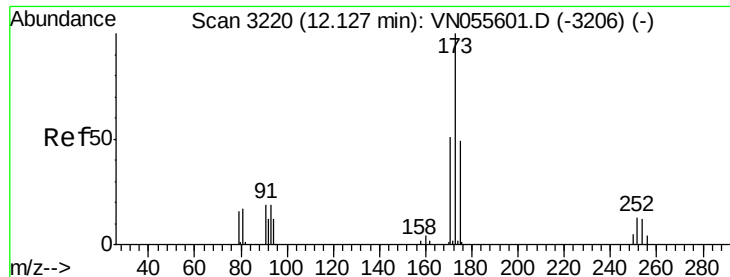
Tot Ion: 95 Resp: 217422
Ion Ratio Lower Upper
95 100
174 90.7 0.0 180.6
176 88.8 0.0 177.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055612.D
Acq: 17 May 2019 15:59

Tgt Ion: 117 Resp: 498774
Ion Ratio Lower Upper
117 100
82 51.6 42.3 63.5
119 31.9 25.4 38.2





#71

Bromoform

Concen: 0.438 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055612.D

Acq: 17 May 2019 15:59

Instrument :

MSVOA_N

ClientSampleId :

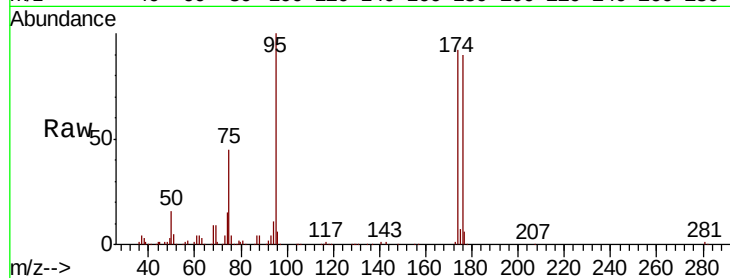
Tot Ion:173 Resp: 1507

Ion Ratio Lower Upper

173 100

175 843.8 24.3 72.9#

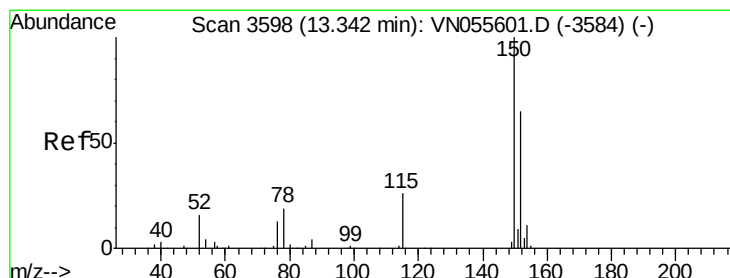
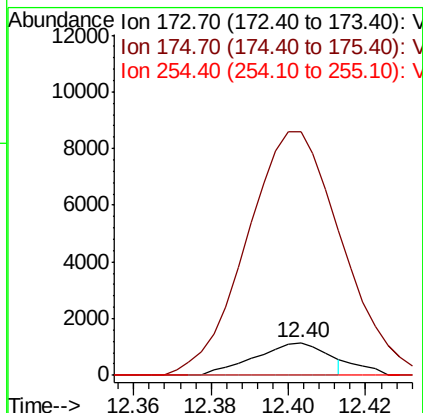
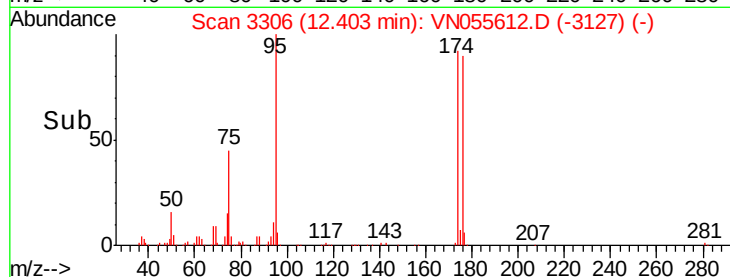
254 0.0 0.1 0.1#



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN055612.D

Acq: 17 May 2019 15:59

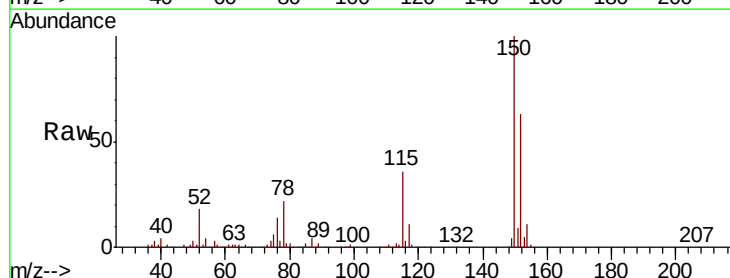
Tgt Ion:152 Resp: 189672

Ion Ratio Lower Upper

152 100

115 55.4 28.1 84.2

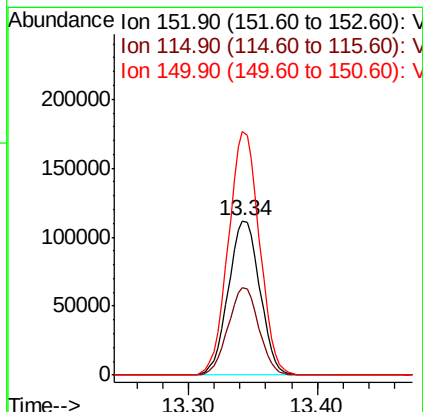
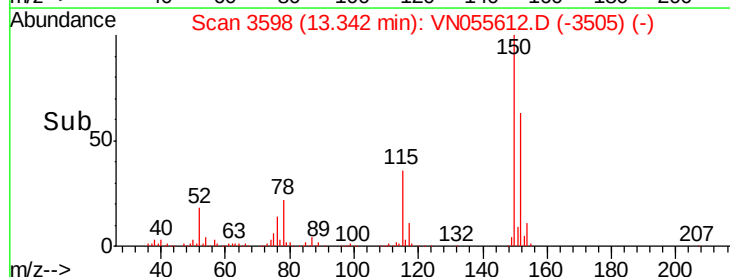
150 155.3 0.0 348.0

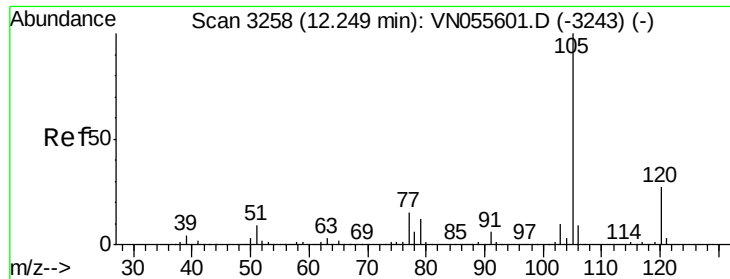


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN055612.D

Acq: 17 May 2019 15:59

Instrument :

MSVOA_N

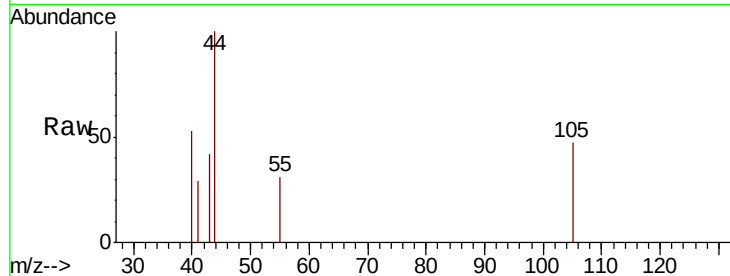
ClientSampleId :

Tot Ion:105 Resp: 328

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

12.25

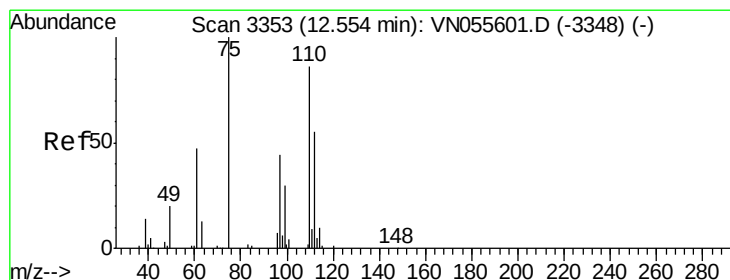
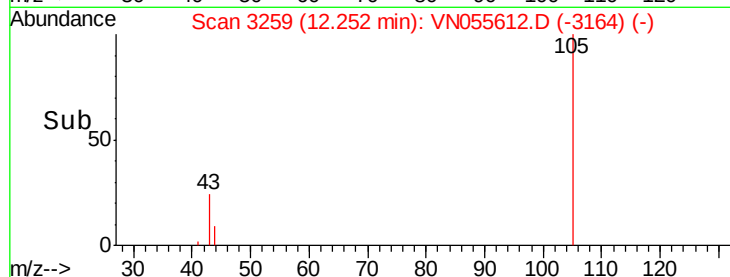
300

200

100

0

Time--> 12.22 12.24 12.26



#76

1,2,3-Trichloropropane

Concen: 25.667 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055612.D

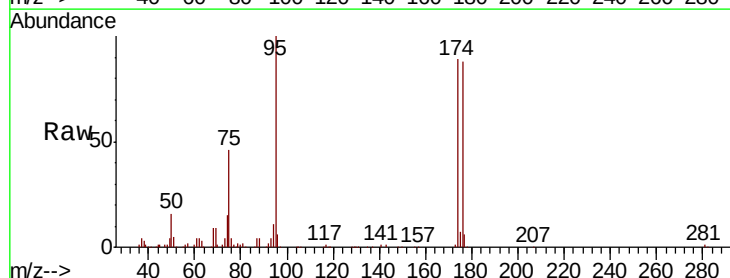
Acq: 17 May 2019 15:59

Tgt Ion: 75 Resp: 99338

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

12.40

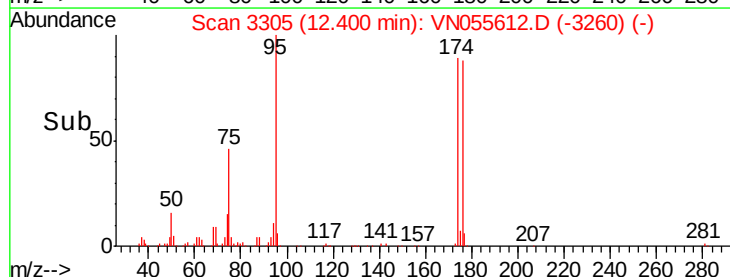
60000

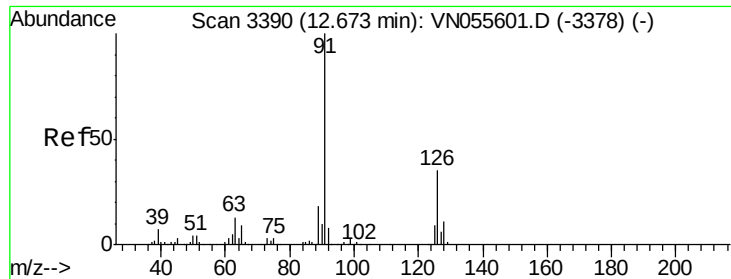
40000

20000

0

Time--> 12.35 12.40 12.45





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055612.D

Acq: 17 May 2019 15:59

Instrument :

MSVOA_N

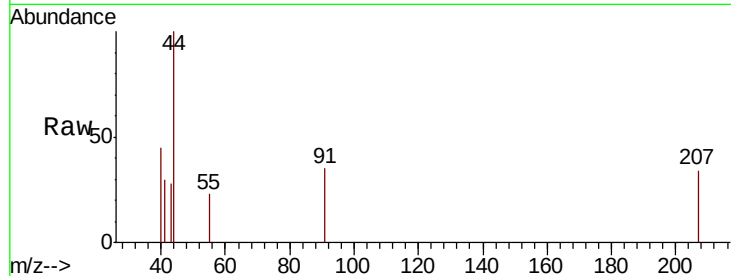
ClientSampled :

Tot Ion: 91 Resp: 267

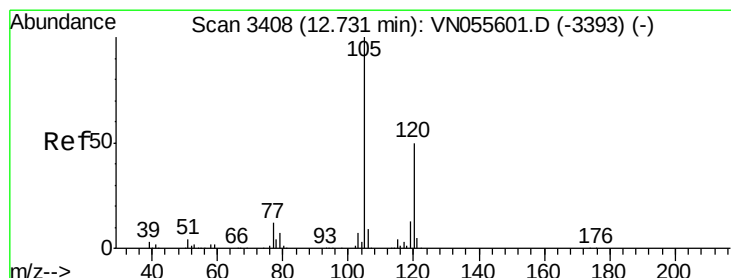
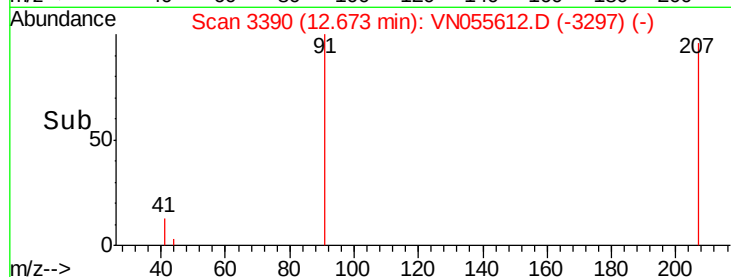
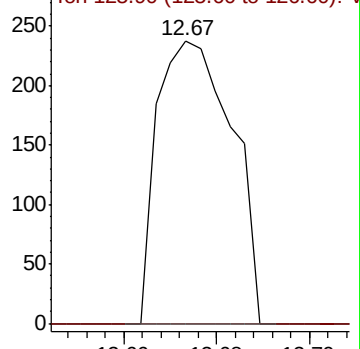
Ion Ratio Lower Upper

91 100

126 0.0 17.8 53.4#



Abundance Ion 91.00 (90.70 to 91.70): VN055612.D (-3390) (-)



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.74 min Scan# 3410

Delta R.T. 0.01 min

Lab File: VN055612.D

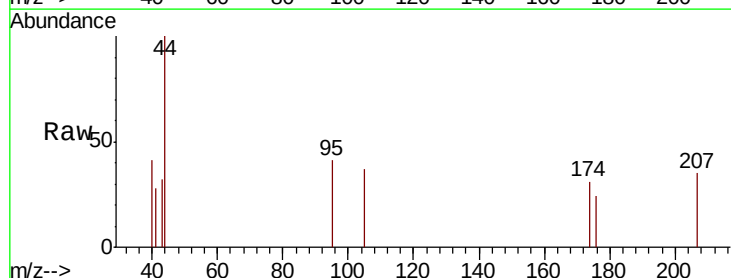
Acq: 17 May 2019 15:59

Tgt Ion: 105 Resp: 320

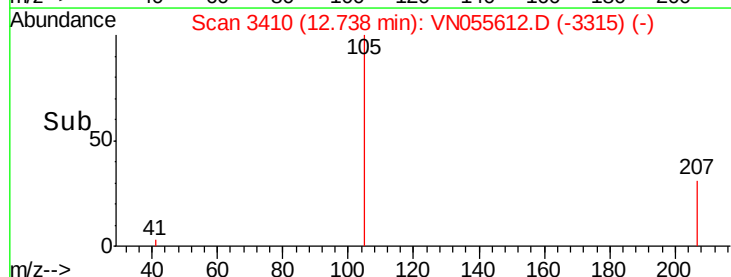
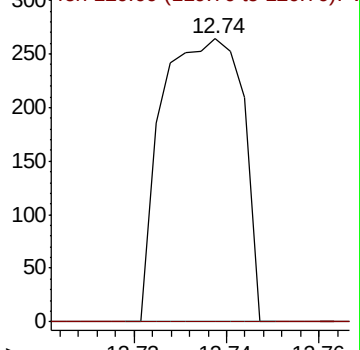
Ion Ratio Lower Upper

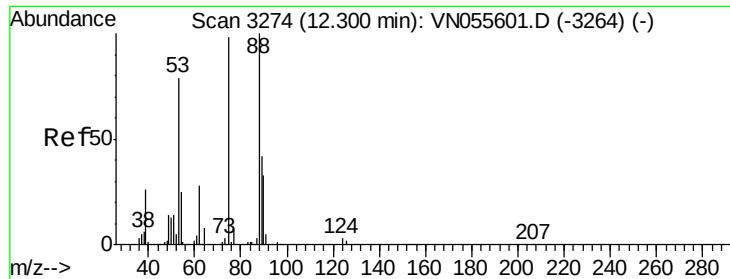
105 100

120 0.0 24.6 74.0#



Abundance Ion 105.00 (104.70 to 105.70): VN055612.D (-3408) (-)

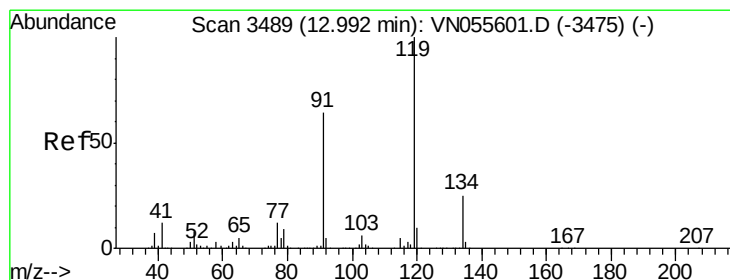
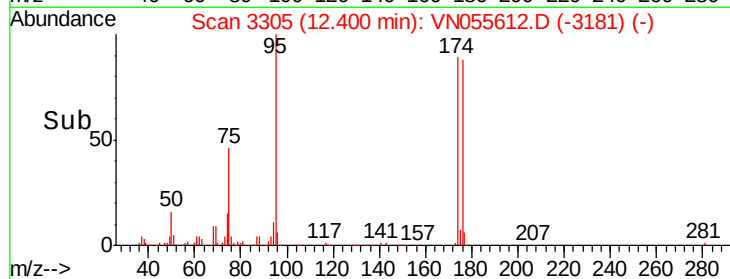
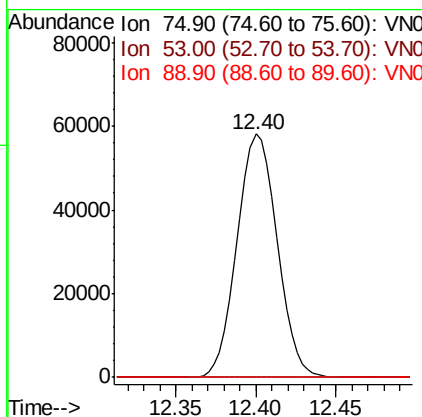
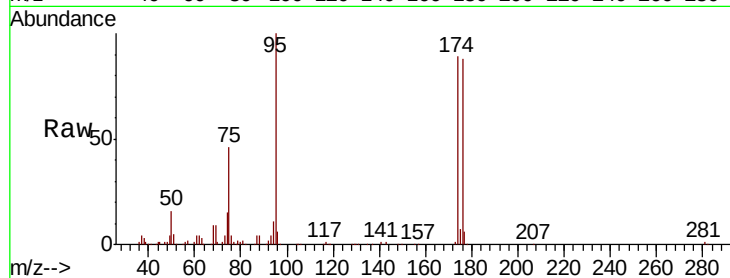




#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.979 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN055612.D
 Acq: 17 May 2019 15:59

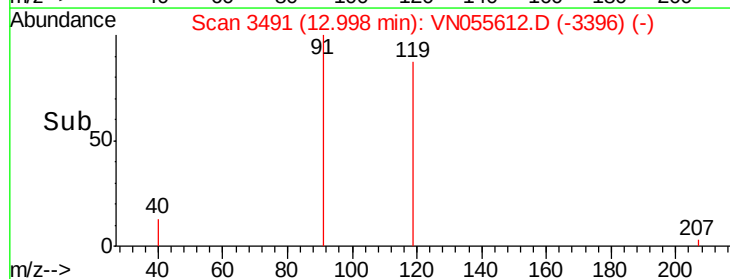
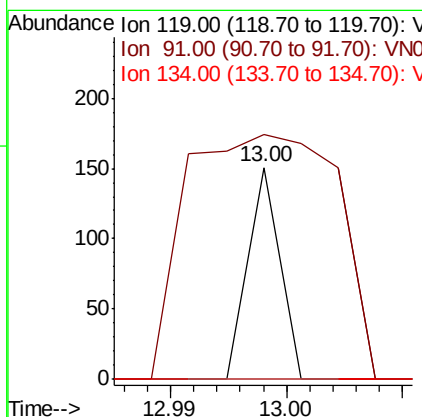
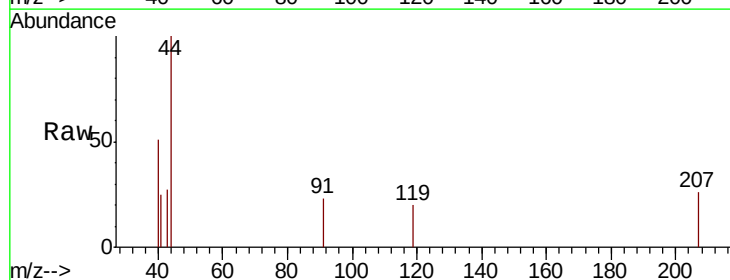
Instrument :
 MSVOA_N
 ClientSampleId :

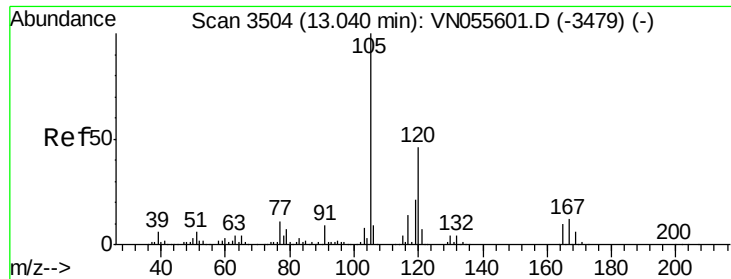
Tot Ion: 75 Resp: 99338
 Ion Ratio Lower Upper
 75 100
 53 0.0 65.1 97.7#
 89 0.0 36.4 54.6#



#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 13.00 min Scan# 3491
 Delta R.T. 0.01 min
 Lab File: VN055612.D
 Acq: 17 May 2019 15:59

Tgt Ion: 119 Resp: 29
 Ion Ratio Lower Upper
 119 100
 91 544.8 31.3 93.8#
 134 0.0 13.2 39.6#





#84

1,2,4-Trimethylbenzene

Concen: Below Cal

RT: 13.04 min Scan# 3503

Delta R.T. -0.00 min

Lab File: VN055612.D

Acq: 17 May 2019 15:59

Instrument :

MSVOA_N

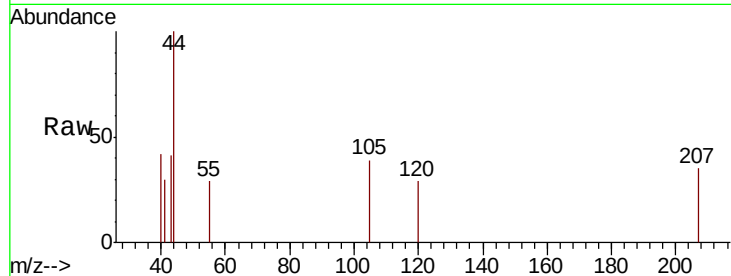
ClientSampled :

Tot Ion:105 Resp: 256

Ion Ratio Lower Upper

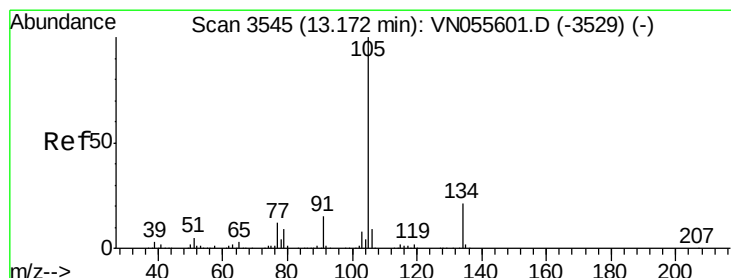
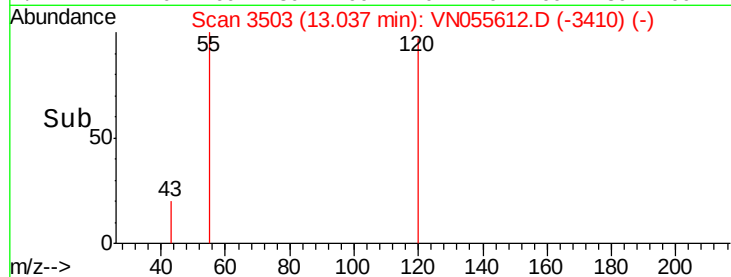
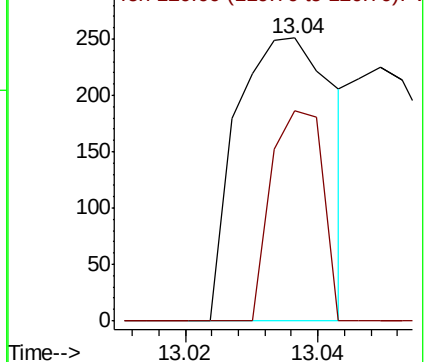
105 100

120 39.1 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: Below Cal

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055612.D

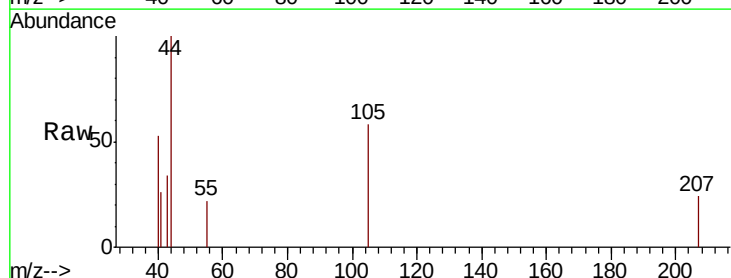
Acq: 17 May 2019 15:59

Tgt Ion:105 Resp: 503

Ion Ratio Lower Upper

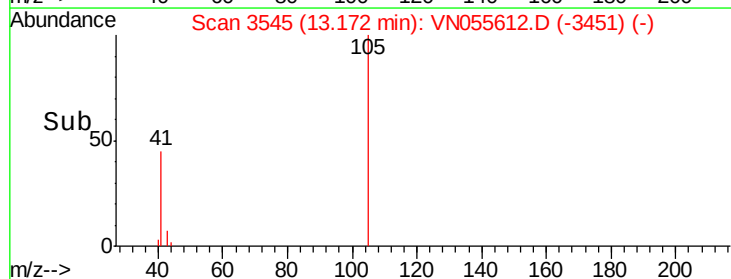
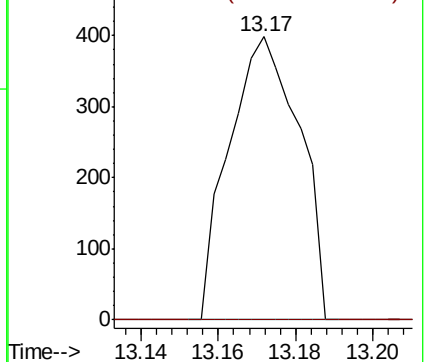
105 100

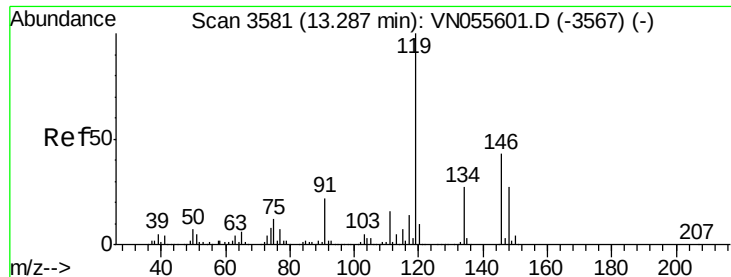
134 0.0 10.3 30.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

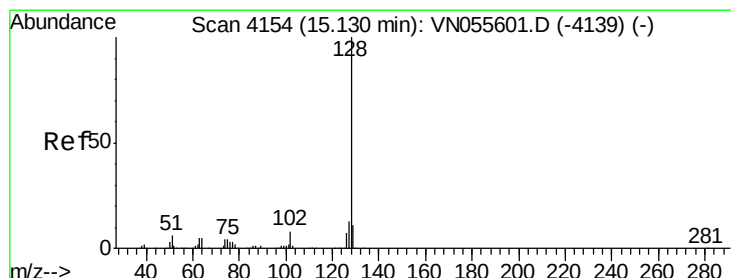
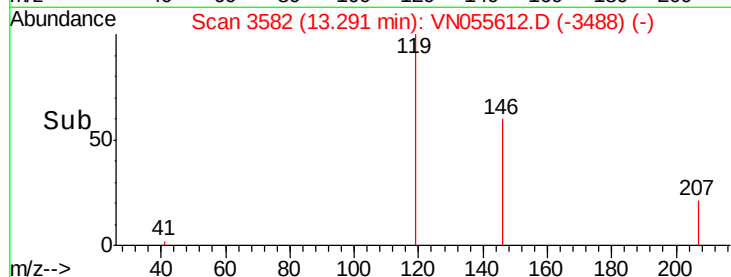
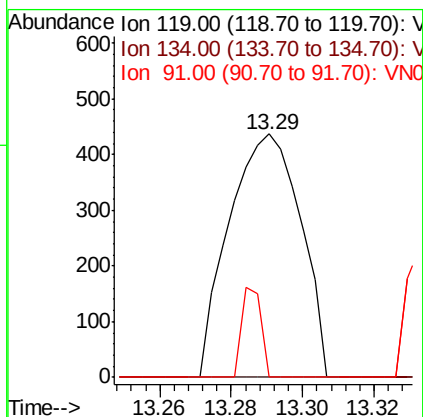
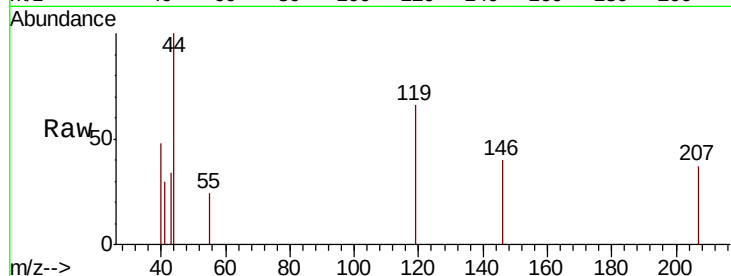




#86
p-Isopropyltoluene
Concen: Below Cal
RT: 13.29 min Scan# 3582
Delta R.T. 0.00 min
Lab File: VN055612.D
Acq: 17 May 2019 15:59

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	13.4	40.2#
91	9.9	11.0	33.0#



#95
Naphthalene
Concen: 1.840 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.01 min
Lab File: VN055612.D
Acq: 17 May 2019 15:59

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.4#
129	0.0	8.6	12.8#

