

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN053119\
 Data File : VN055944.D
 Acq On : 1 Jun 2019 3:16
 Operator : JC/SP
 Sample : K3125-16 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 COMP-3

Quant Time: Jun 01 04:08:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 24 06:41:54 2019
 Response via : Initial Calibration

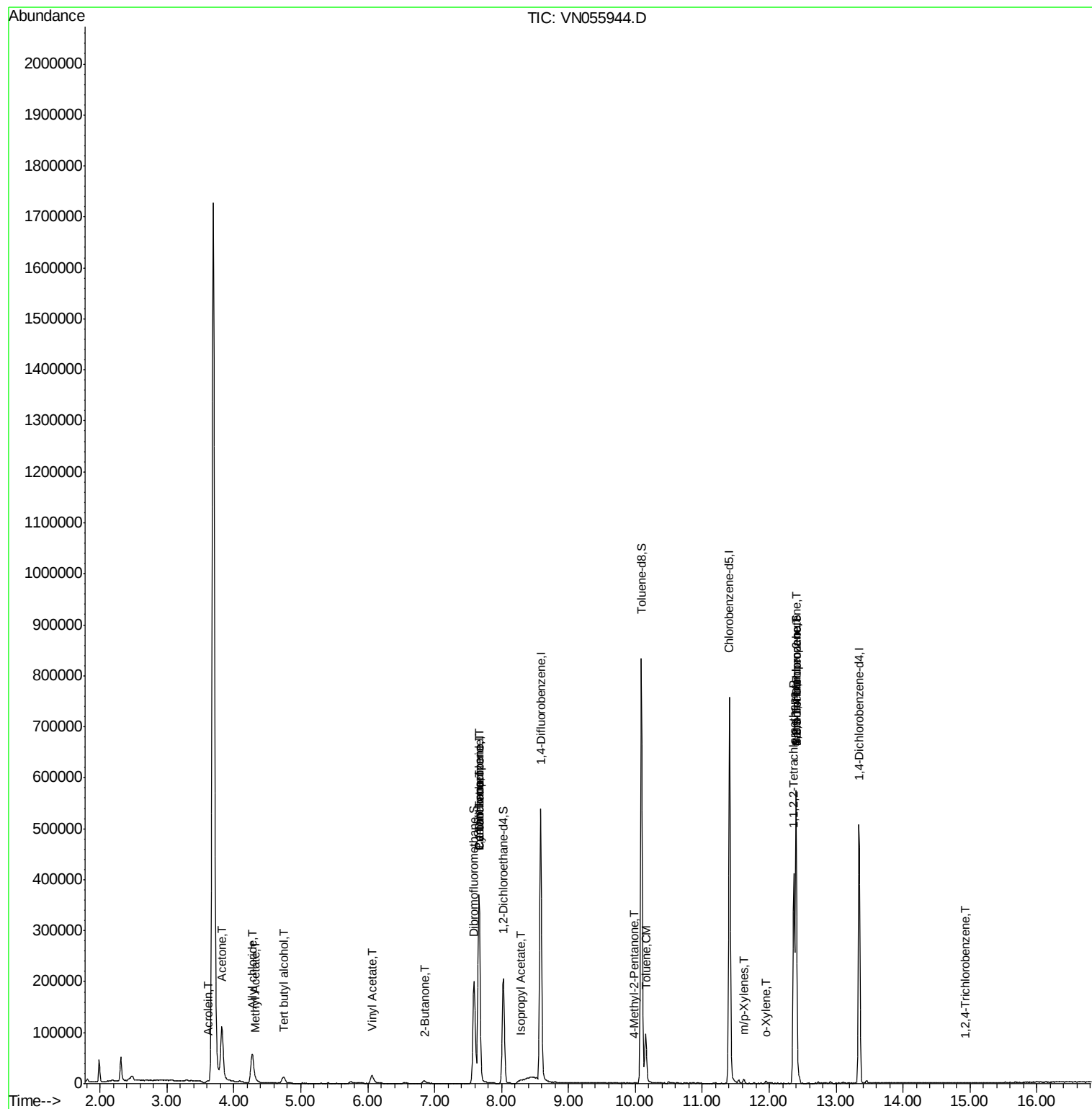
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	342013	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	525397	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	481867	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	157307	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	175704	49.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.50%	
35) Dibromofluoromethane	7.59	113	153086	46.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.18%	
50) Toluene-d8	10.09	98	621407	48.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.54%	
62) 4-Bromofluorobenzene	12.40	95	203762	46.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.28%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.74	59	12181	18.050	ug/l #	74
13) Acrolein	3.62	56	6127	12.679	ug/l	97
14) Allyl chloride	4.27	41	100639	20.183	ug/l #	43
16) Acetone	3.82	43	162861	104.895	ug/l	89
18) Methyl Acetate	4.33	43	4832	0.274	ug/l #	81
23) Vinyl Acetate	6.06	43	2957	0.356	ug/l #	71
25) 2-Butanone	6.85	43	1069	0.493	ug/l	96
31) Cyclohexane	7.66	56	5212	0.983	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	20688	4.518	ug/l #	43
38) Carbon Tetrachloride	7.66	117	28693	6.016	ug/l #	15
43) Isopropyl Acetate	8.27	43	4878	0.656	ug/l #	53
51) 4-Methyl-2-Pentanone	9.99	43	896	0.204	ug/l #	35
52) Toluene	10.16	92	42433	4.889	ug/l	97
68) m/p-Xylenes	11.62	106	3085	0.472	ug/l	92
69) o-Xylene	11.95	106	1382	0.213	ug/l	99
71) Bromoform	12.40	173	1384	0.422	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.36	83	197773	60.362	ug/l #	32
76) 1,2,3-Trichloropropane	12.40	75	94939	34.045	ug/l #	100
79) 2-Chlorotoluene	12.59	91	188	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.74	105	370	Below Cal	#	28
81) trans-1,4-Dichloro-2-buten	12.40	75	94939	81.203	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	489	Below Cal		75
85) sec-Butylbenzene	13.04	105	489	Below Cal	#	55
93) 1,2,4-Trichlorobenzene	14.92	180	95	3.666	ug/l #	12

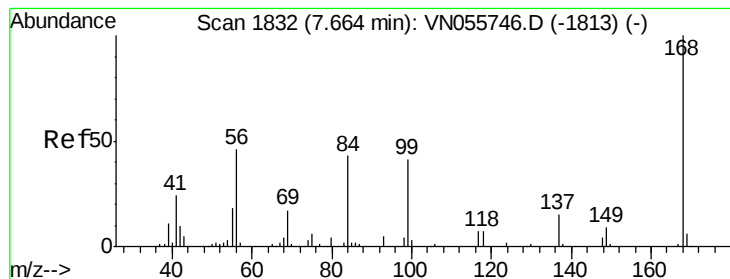
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri May 24 06:41:54 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055944.D

Acq: 1 Jun 2019 3:16

Instrument :

MSVOA_N

ClientSampled :

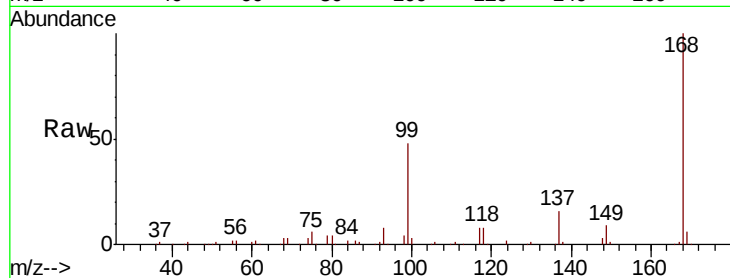
COMP-3

Tot Ion:168 Resp: 342013

Ion Ratio Lower Upper

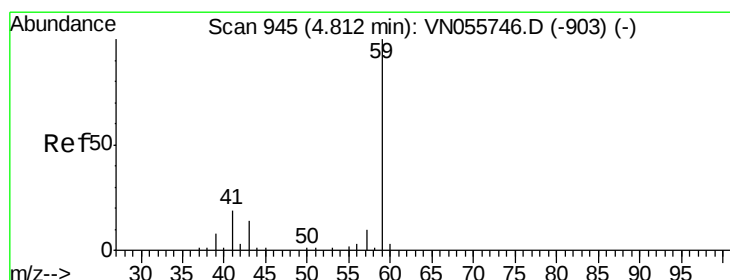
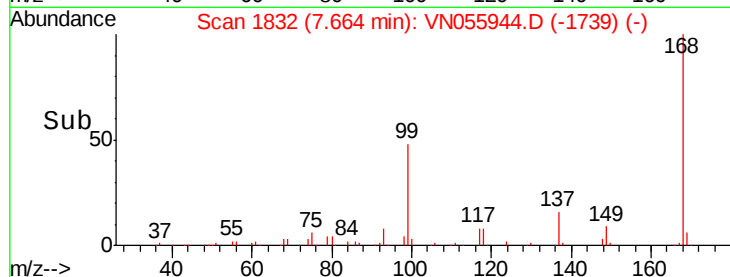
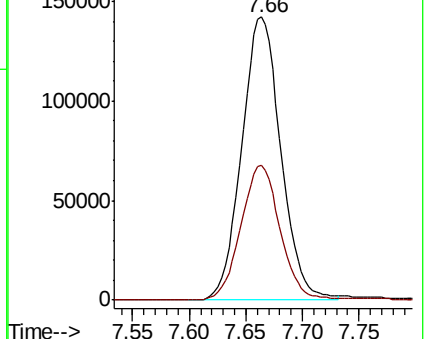
168 100

99 47.5 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 18.050 ug/l

RT: 4.74 min Scan# 922

Delta R.T. -0.07 min

Lab File: VN055944.D

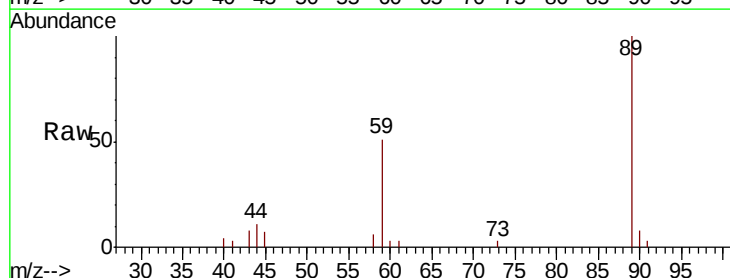
Acq: 1 Jun 2019 3:16

Tgt Ion: 59 Resp: 12181

Ion Ratio Lower Upper

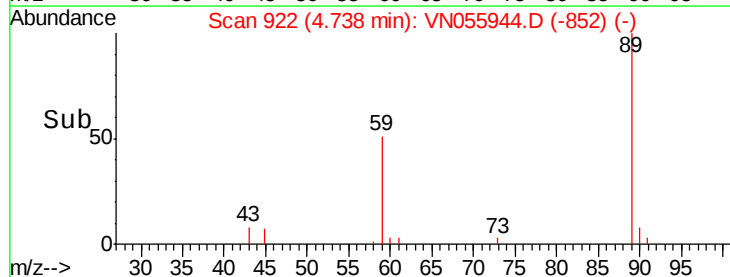
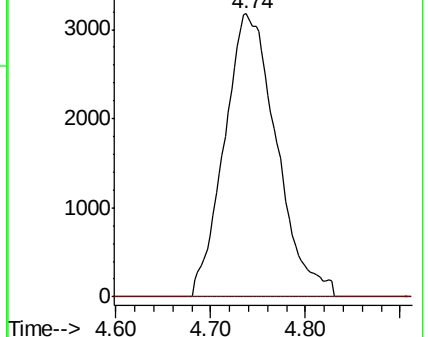
59 100

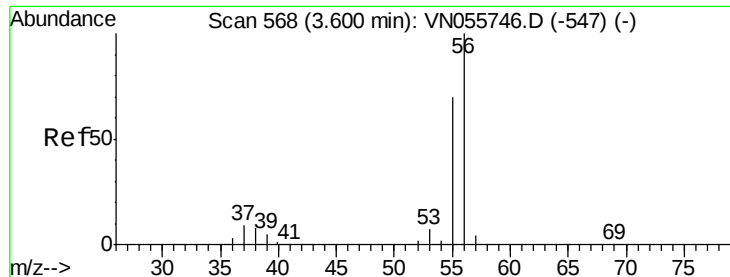
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#13

Acrolein

Concen: 12.679 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.02 min

Lab File: VN055944.D

Acq: 1 Jun 2019 3:16

Instrument :

MSVOA_N

ClientSampled :

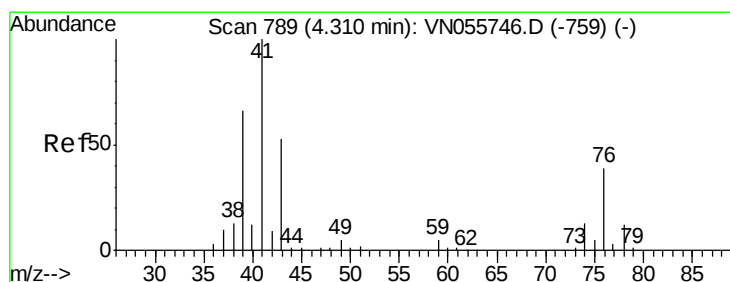
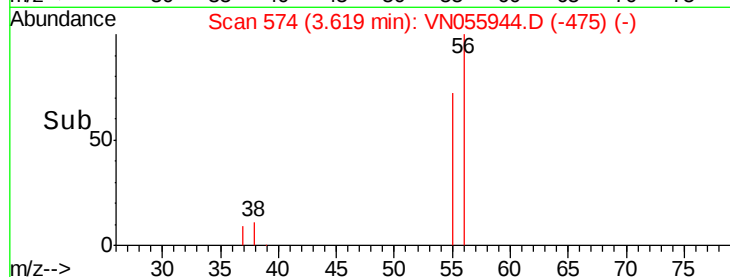
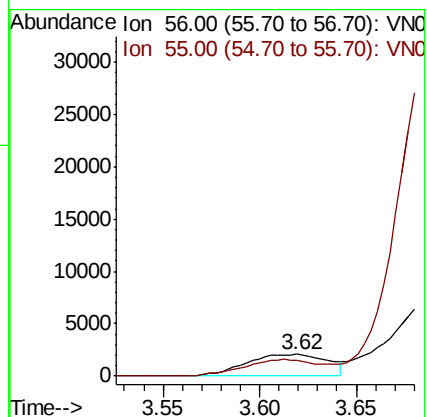
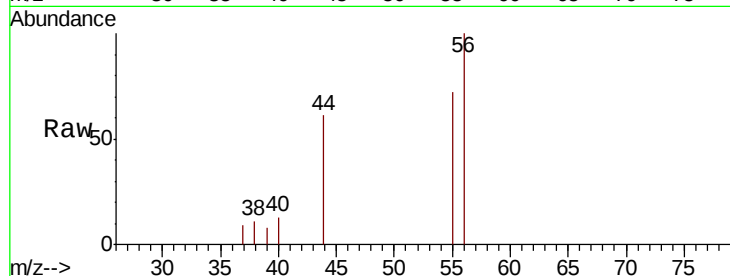
COMP-3

Tot Ion: 56 Resp: 6127

Ion Ratio Lower Upper

56 100

55 71.5 55.4 83.2



#14

Allyl chloride

Concen: 20.183 ug/l

RT: 4.27 min Scan# 778

Delta R.T. -0.04 min

Lab File: VN055944.D

Acq: 1 Jun 2019 3:16

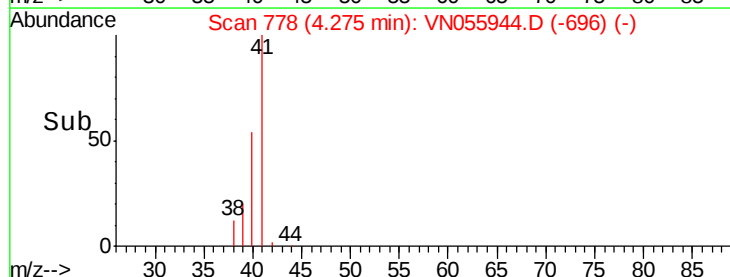
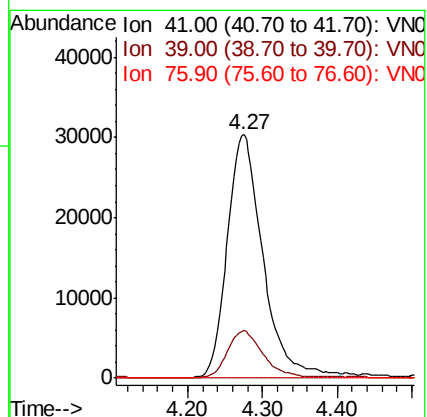
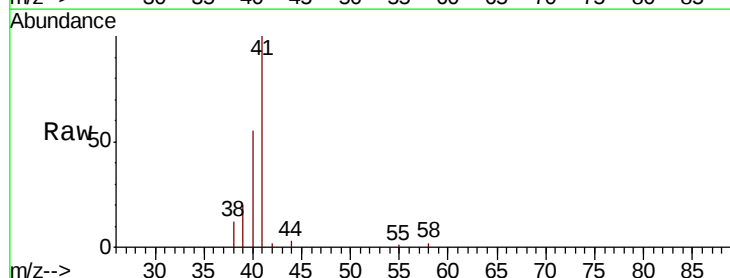
Tgt Ion: 41 Resp: 100639

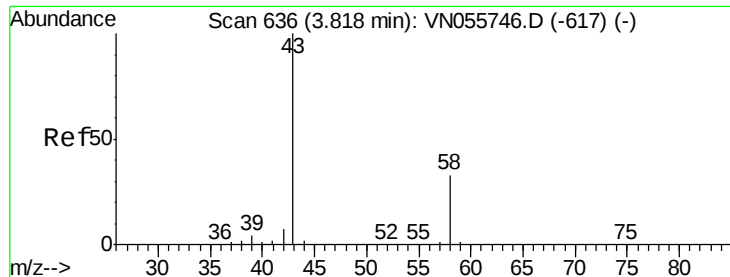
Ion Ratio Lower Upper

41 100

39 19.6 50.0 75.0#

76 0.0 28.2 42.2#





#16

Acetone

Concen: 104.895 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN055944.D

Acq: 1 Jun 2019 3:16

Instrument :

MSVOA_N

ClientSampled :

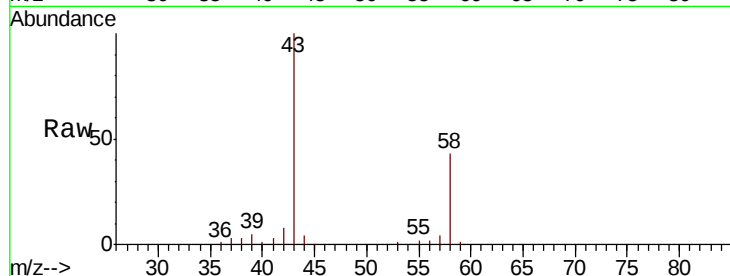
COMP-3

Tot Ion: 43 Resp: 162861

Ion Ratio Lower Upper

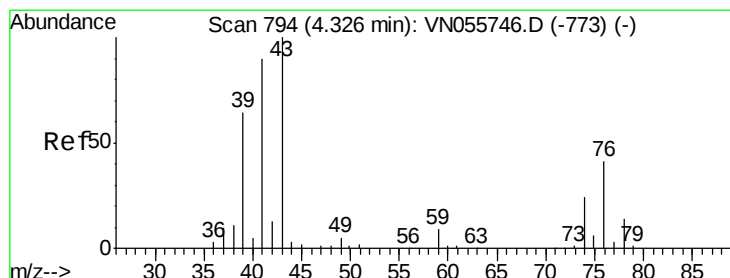
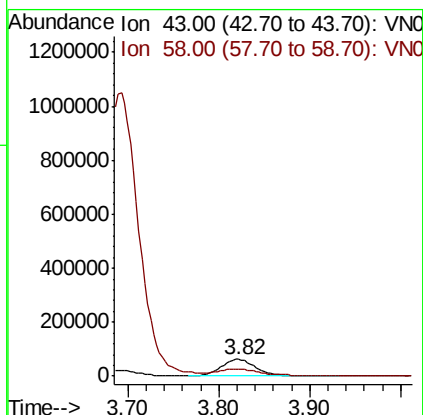
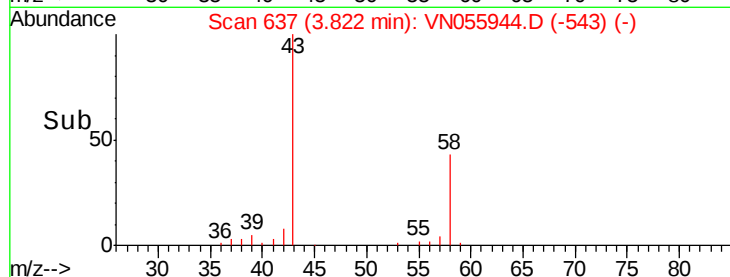
43 100

58 39.3 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.274 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN055944.D

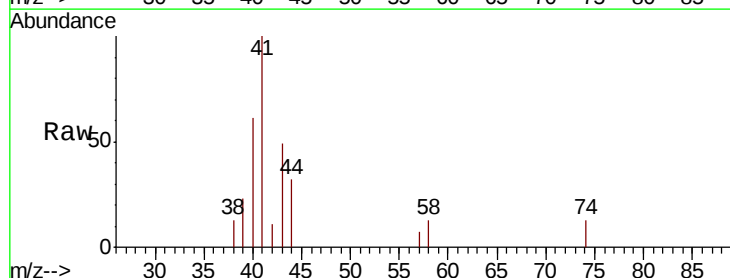
Acq: 1 Jun 2019 3:16

Tgt Ion: 43 Resp: 4832

Ion Ratio Lower Upper

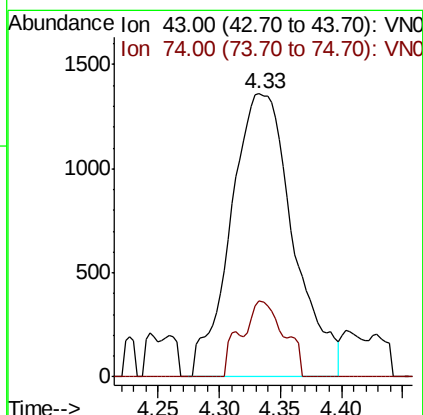
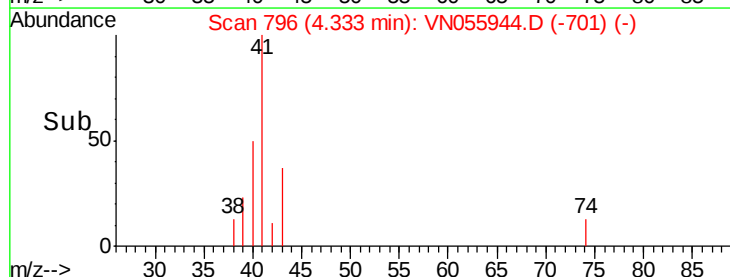
43 100

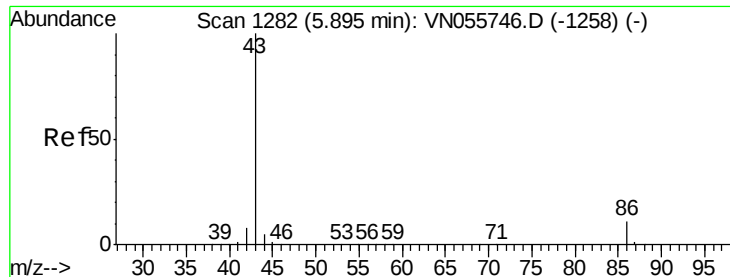
74 14.5 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#23

Vinyl Acetate

Concen: 0.356 ug/l

RT: 6.06 min Scan# 1332

Delta R.T. 0.16 min

Lab File: VN055944.D

Acq: 1 Jun 2019 3:16

Instrument :

MSVOA_N

ClientSampled :

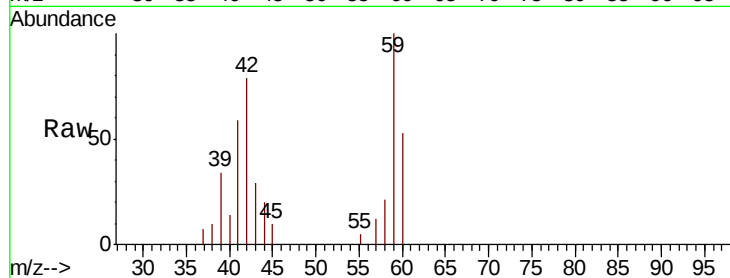
COMP-3

Tot Ion: 43 Resp: 2957

Ion Ratio Lower Upper

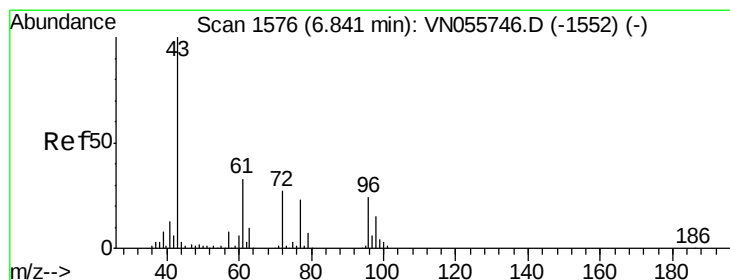
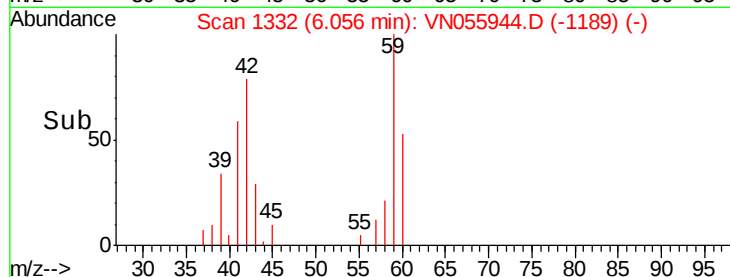
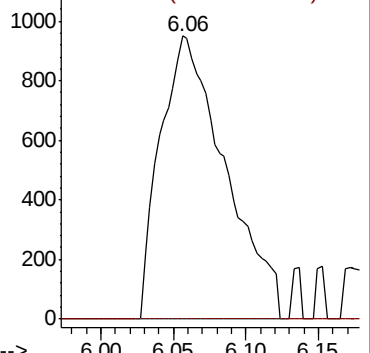
43 100

86 0.0 8.6 13.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#25

2-Butanone

Concen: 0.493 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VN055944.D

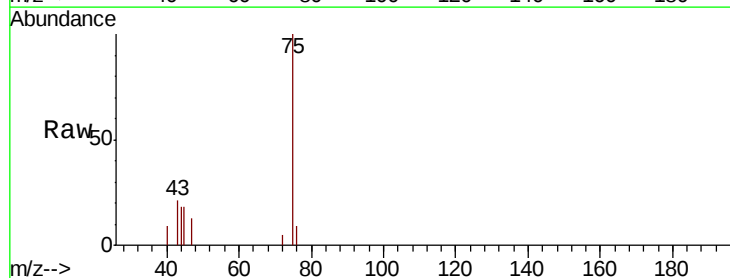
Acq: 1 Jun 2019 3:16

Tgt Ion: 43 Resp: 1069

Ion Ratio Lower Upper

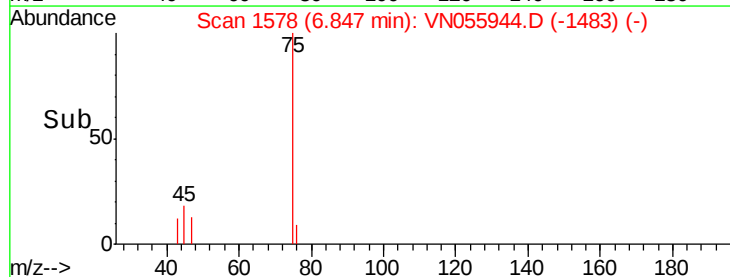
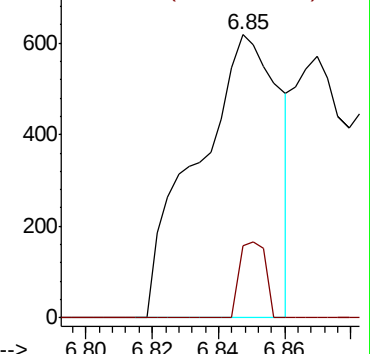
43 100

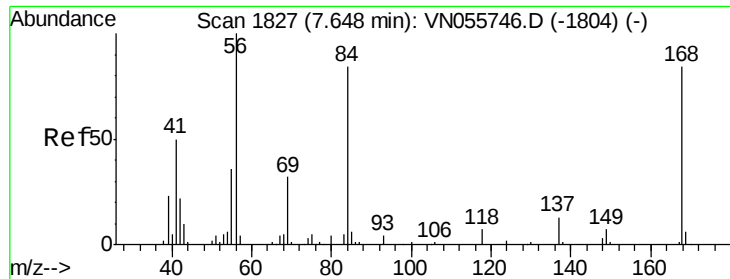
72 25.6 21.9 32.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

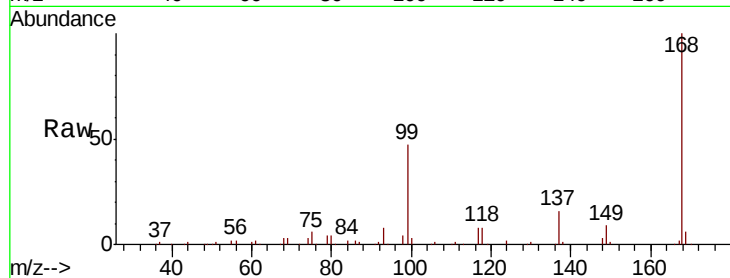




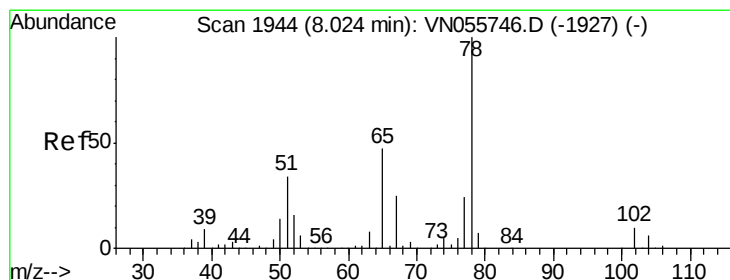
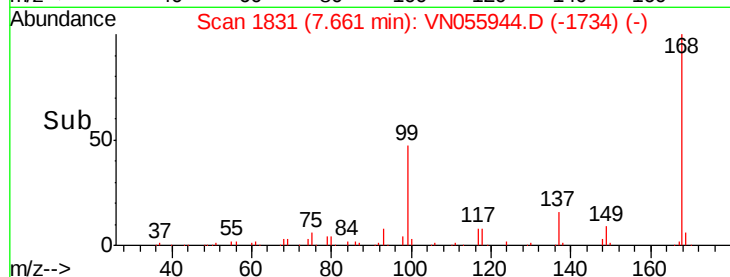
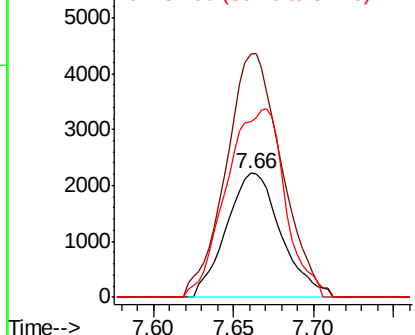
#31
Cyclohexane
Concen: 0.983 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN055944.D
Acq: 1 Jun 2019 3:16

Instrument :
MSVOA_N
ClientSampleId :
COMP-3

Tot Ion: 56 Resp: 5212
Ion Ratio Lower Upper
56 100
69 196.3 25.6 38.4#
84 142.3 67.4 101.0#

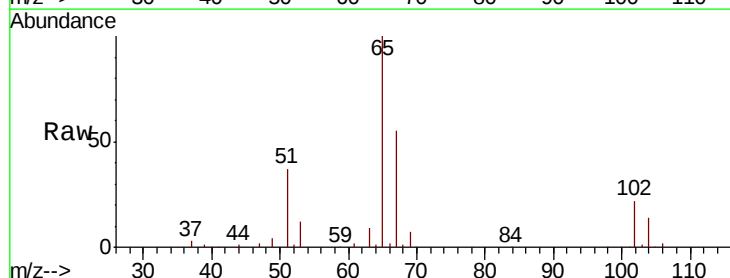


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

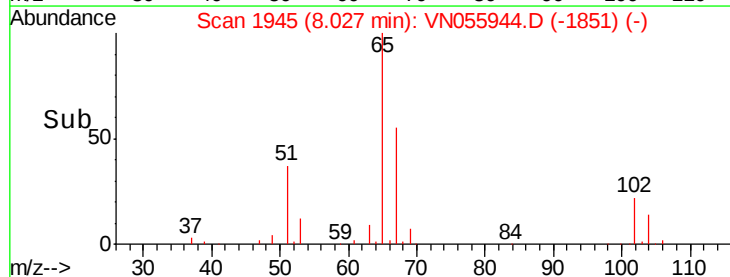
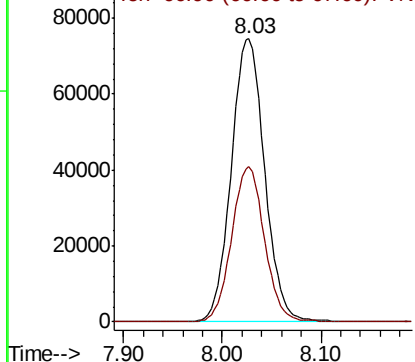


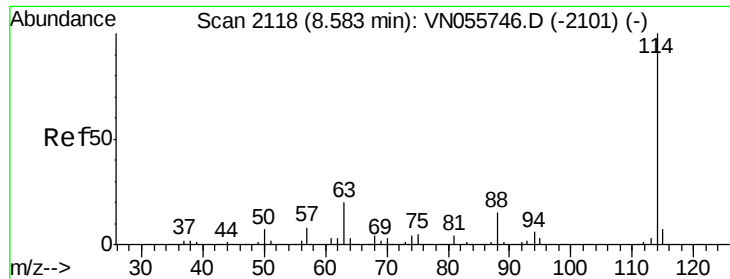
#33
1,2-Dichloroethane-d4
Concen: 49.746 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN055944.D
Acq: 1 Jun 2019 3:16

Tgt Ion: 65 Resp: 175704
Ion Ratio Lower Upper
65 100
67 53.8 0.0 109.2



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

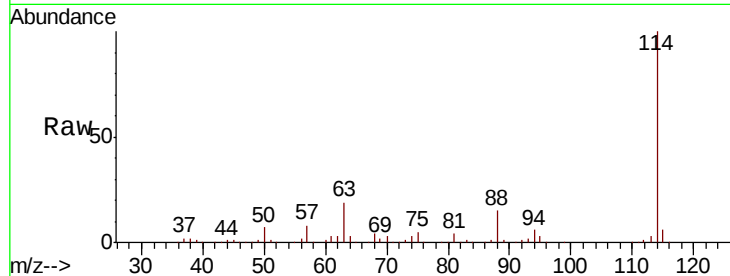




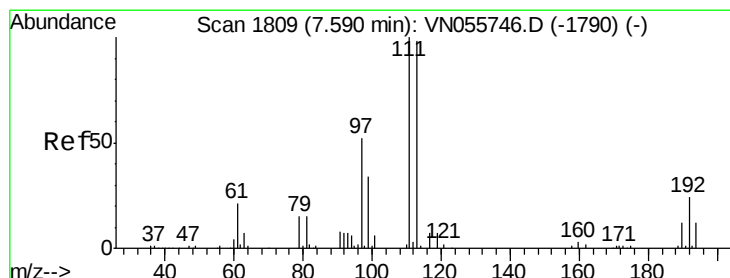
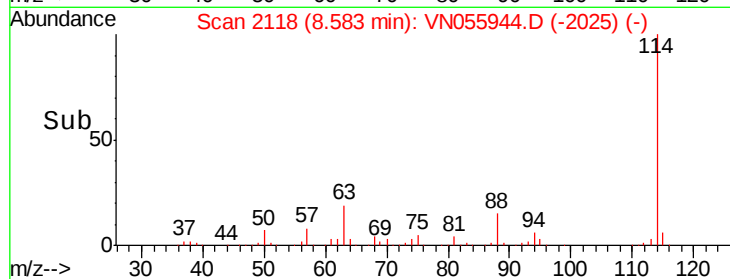
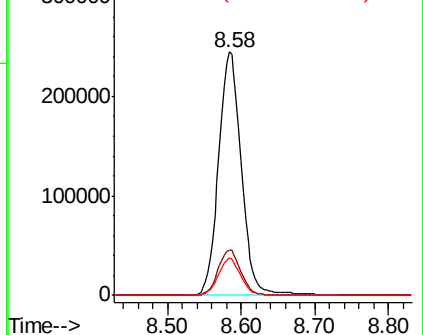
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055944.D
 Acq: 1 Jun 2019 3:16

Instrument :
 MSVOA_N
 ClientSampleId :
 COMP-3

Tot Ion	Ratio	Lower	Upper
114	100		
63	18.8	0.0	39.2
88	15.3	0.0	31.0

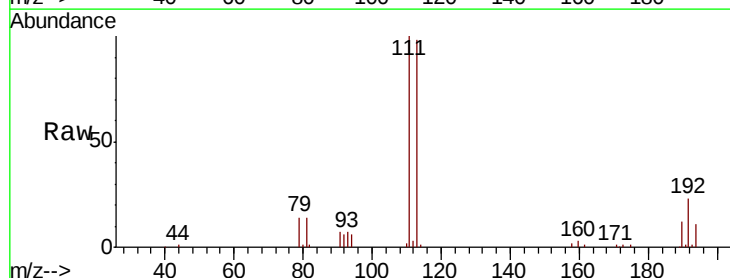


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

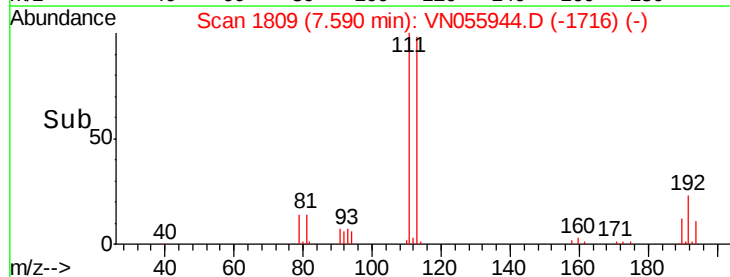
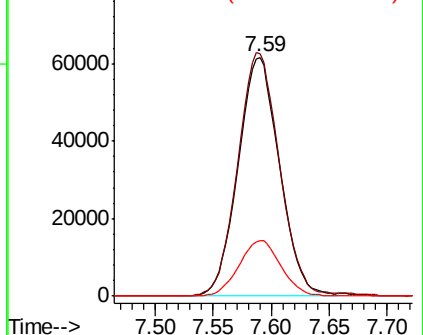


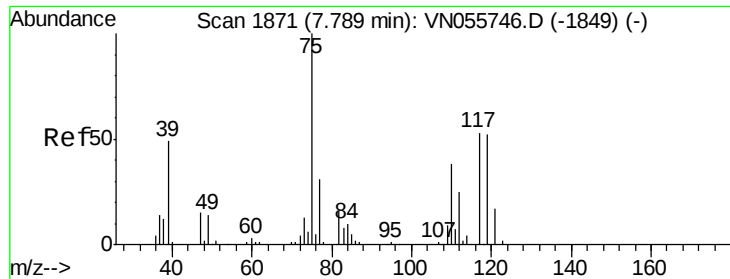
#35
 Dibromofluoromethane
 Concen: 46.086 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055944.D
 Acq: 1 Jun 2019 3:16

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.1	81.9	122.9
192	23.6	19.5	29.3



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

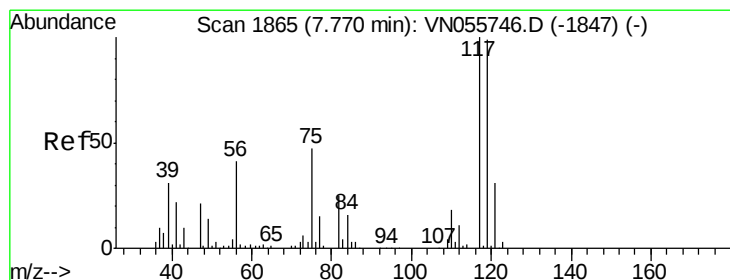
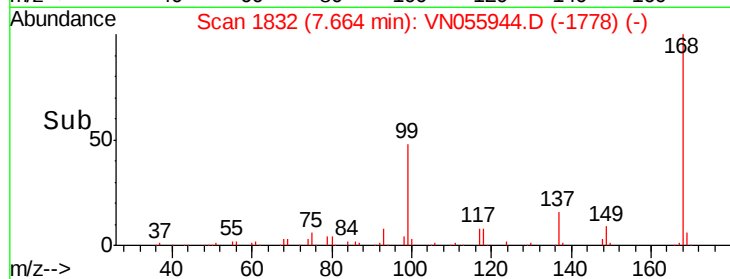
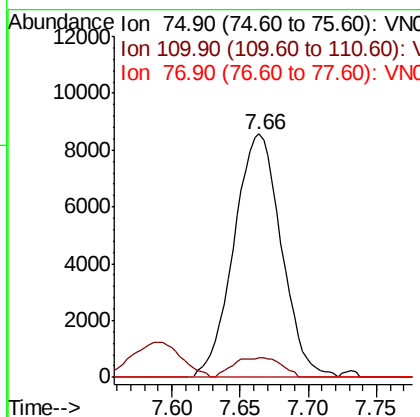
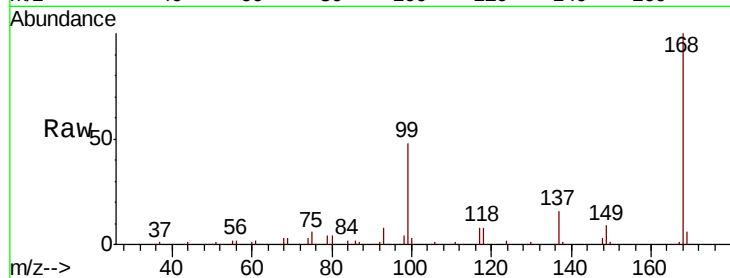




#36
 1,1-Dichloropropene
 Concen: 4.518 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055944.D
 Acq: 1 Jun 2019 3:16

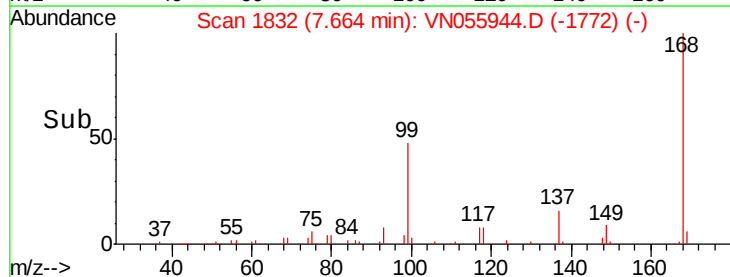
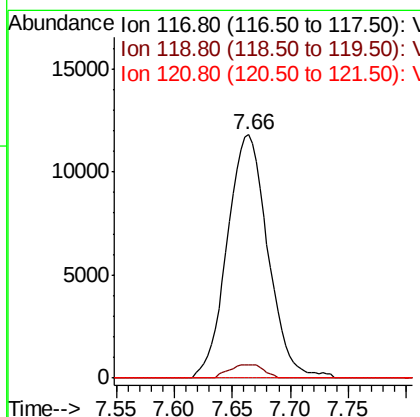
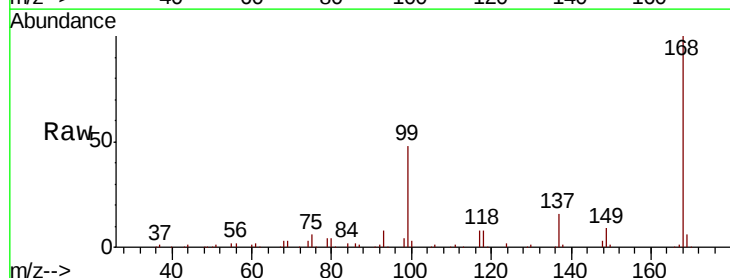
Instrument :
 MSVOA_N
 ClientSampleId :
 COMP-3

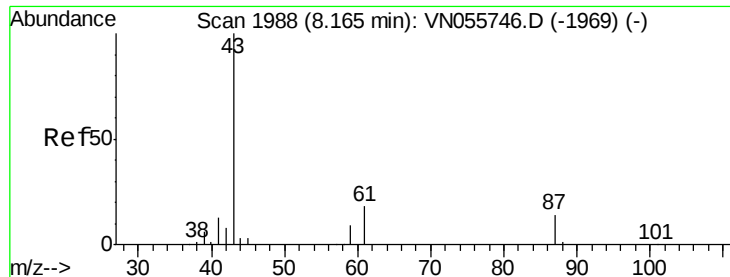
Tot Ion: 75 Resp: 20688
 Ion Ratio Lower Upper
 75 100
 110 3.4 19.0 57.0#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 6.016 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN055944.D
 Acq: 1 Jun 2019 3:16

Tgt Ion: 117 Resp: 28693
 Ion Ratio Lower Upper
 117 100
 119 5.6 79.0 118.6#
 121 0.0 24.7 37.1#





#43

Isopropyl Acetate

Concen: 0.656 ug/l

RT: 8.27 min Scan# 2022

Delta R.T. 0.11 min

Lab File: VN055944.D

Acq: 1 Jun 2019 3:16

Instrument :

MSVOA_N

ClientSampleId :

COMP-3

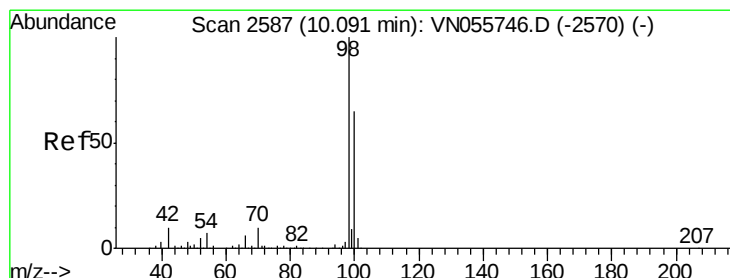
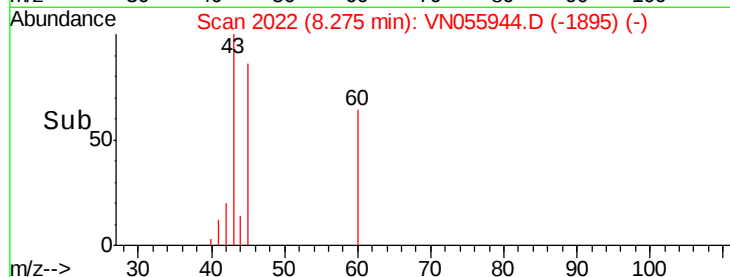
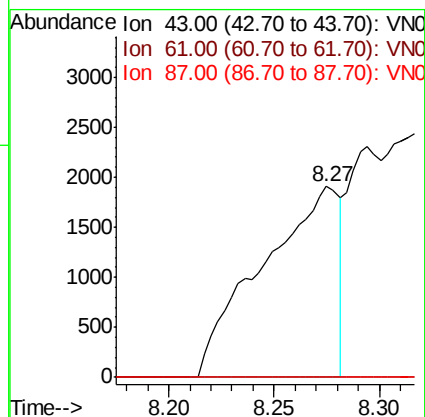
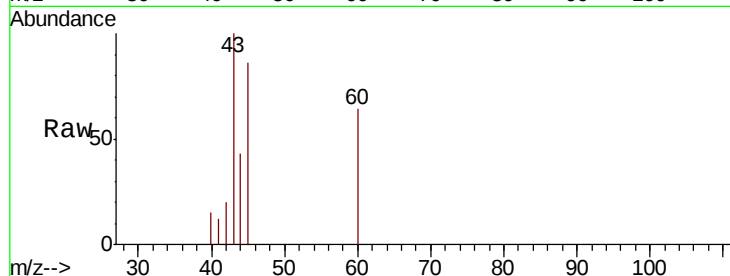
Tot Ion: 43 Resp: 4878

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

87 0.0 11.4 17.2#



#50

Toluene-d8

Concen: 48.769 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055944.D

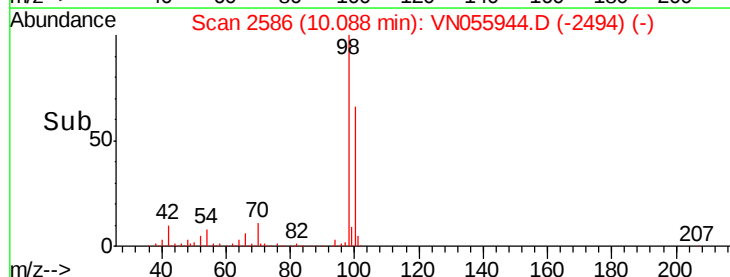
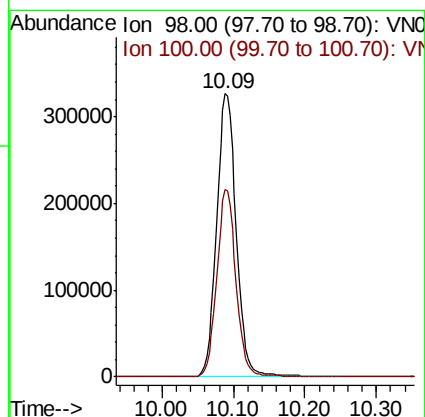
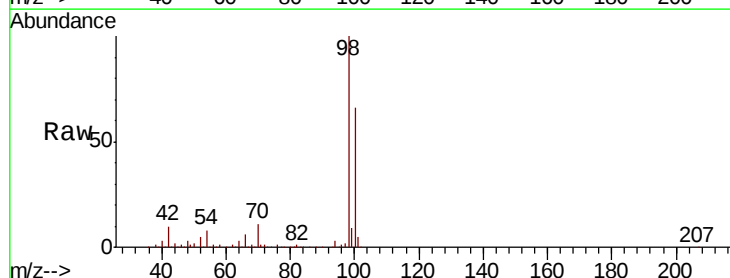
Acq: 1 Jun 2019 3:16

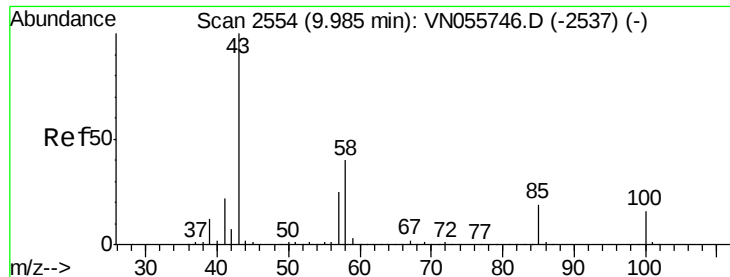
Tgt Ion: 98 Resp: 621407

Ion Ratio Lower Upper

98 100

100 64.6 51.9 77.9





#51

4-Methyl-2-Pentanone

Concen: 0.204 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN055944.D

Acq: 1 Jun 2019 3:16

Instrument :

MSVOA_N

ClientSampleId :

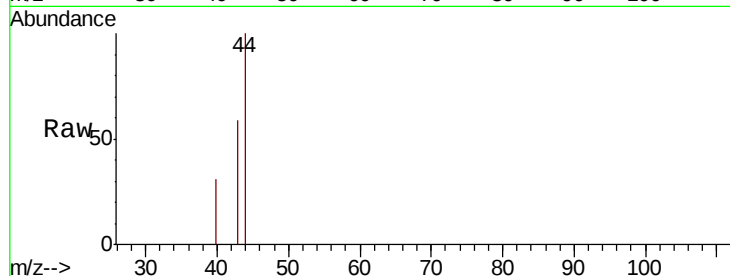
COMP-3

Tot Ion: 43 Resp: 896

Ion Ratio Lower Upper

43 100

58 0.0 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.99

400

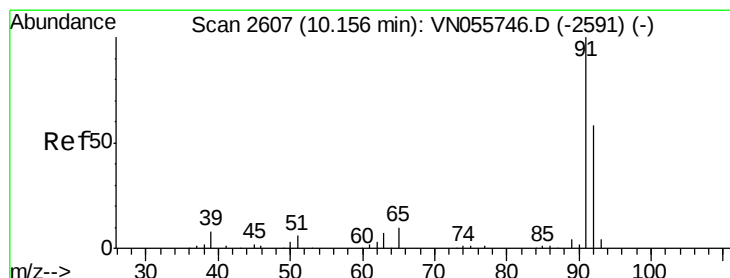
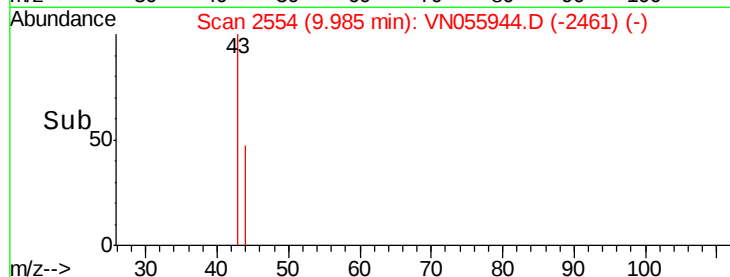
300

200

100

0

Time-->



#52

Toluene

Concen: 4.889 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055944.D

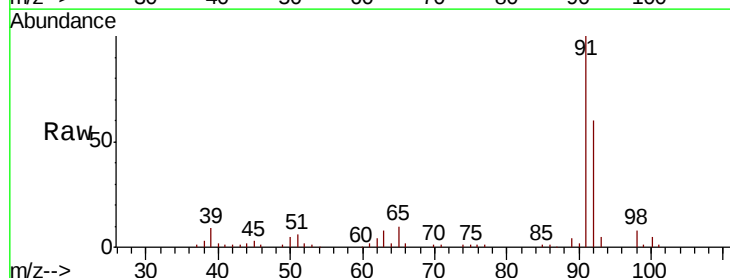
Acq: 1 Jun 2019 3:16

Tgt Ion: 92 Resp: 42433

Ion Ratio Lower Upper

92 100

91 170.4 139.4 209.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

40000

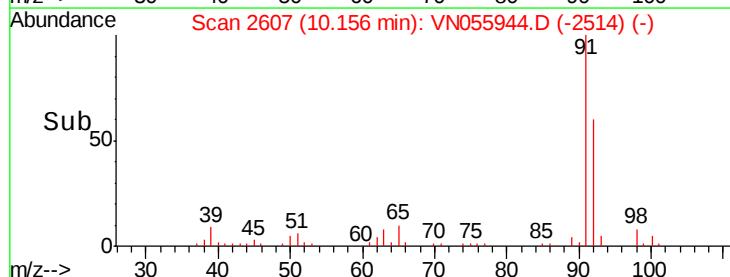
30000

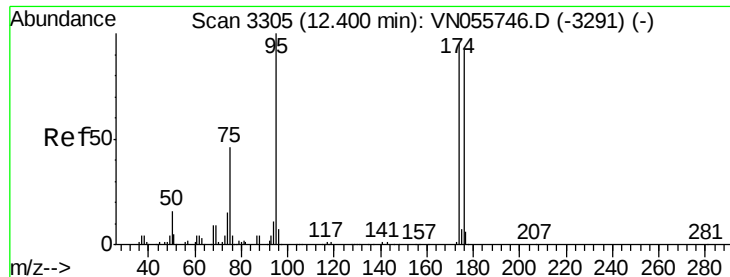
20000

10000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 46.638 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055944.D

Acq: 1 Jun 2019 3:16

Instrument :

MSVOA_N

ClientSampled :

COMP-3

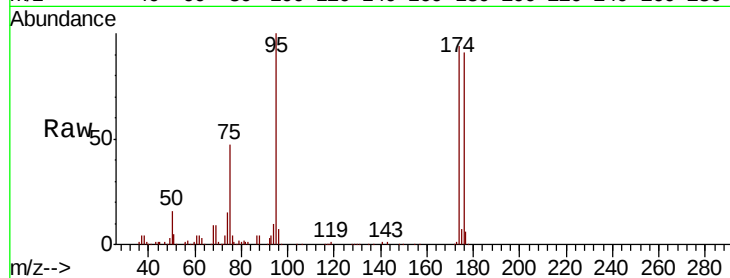
Tot Ion: 95 Resp: 203762

Ion Ratio Lower Upper

95 100

174 93.8 0.0 191.0

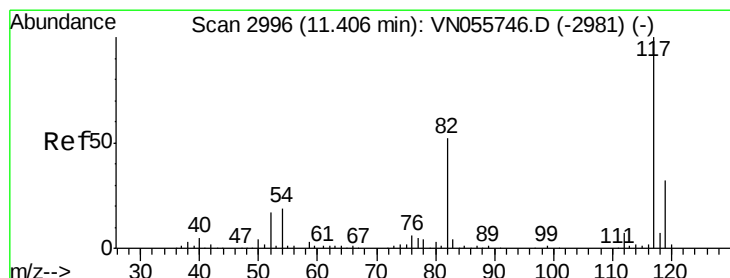
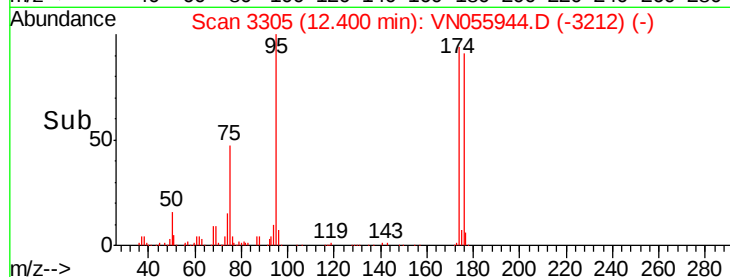
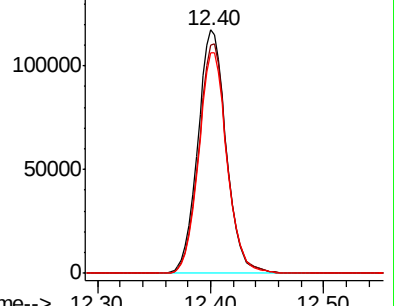
176 90.6 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN055746.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055746.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055746.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055944.D

Acq: 1 Jun 2019 3:16

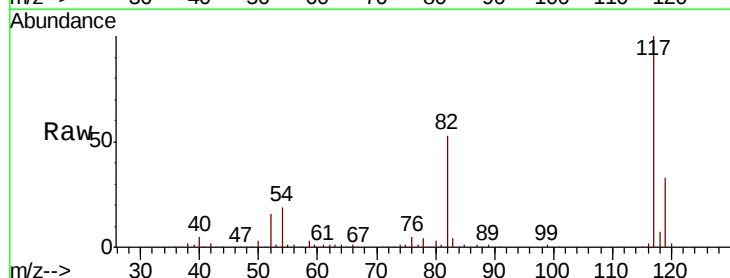
Tgt Ion: 117 Resp: 481867

Ion Ratio Lower Upper

117 100

82 52.8 41.8 62.8

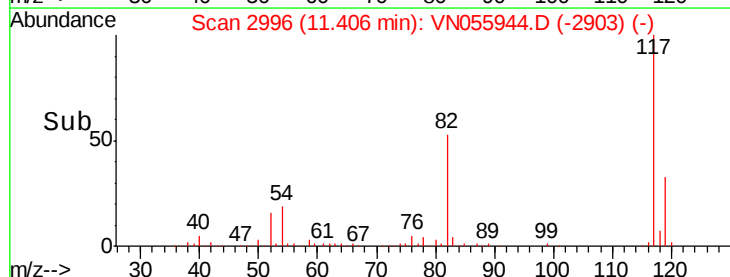
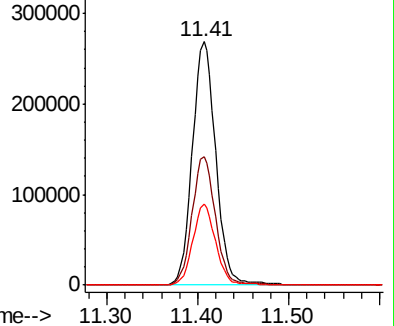
119 33.1 25.4 38.0

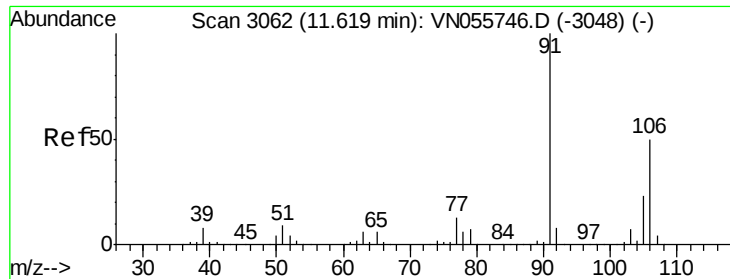


Abundance Ion 116.90 (116.60 to 117.60): VN055746.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN055746.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN055746.D (-2981) (-)

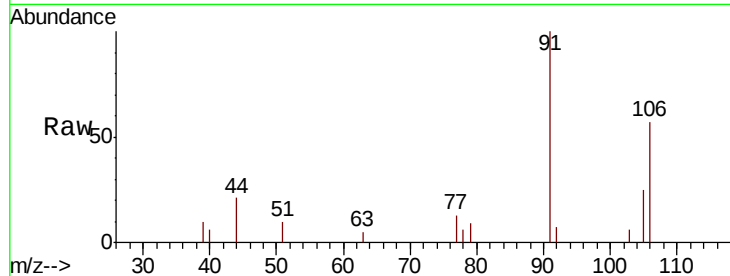




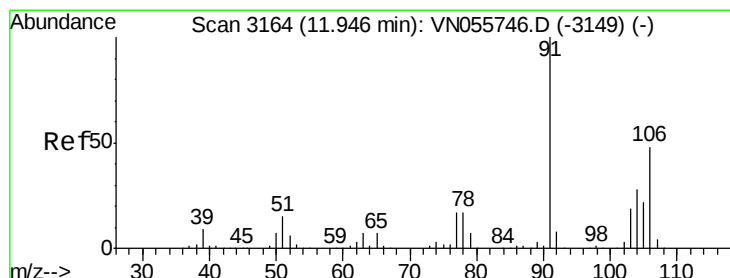
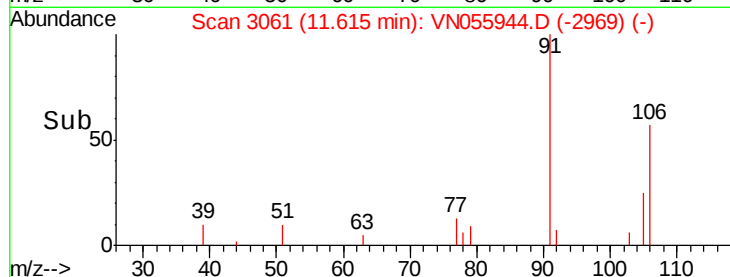
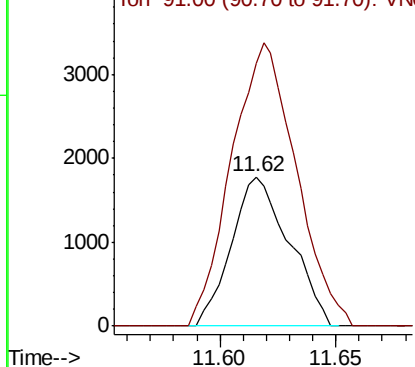
#68
m/p-Xylenes
Concen: 0.472 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN055944.D
Acq: 1 Jun 2019 3:16

Instrument :
MSVOA_N
ClientSampled :
COMP-3

Tot Ion:106 Resp: 3085
Ion Ratio Lower Upper
106 100
91 211.9 159.3 238.9

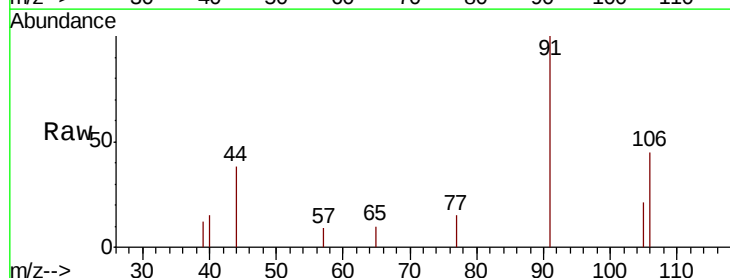


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN0

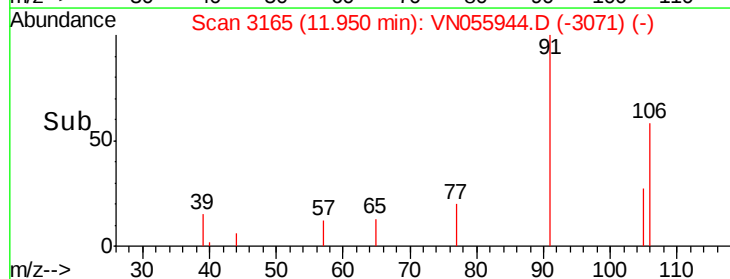
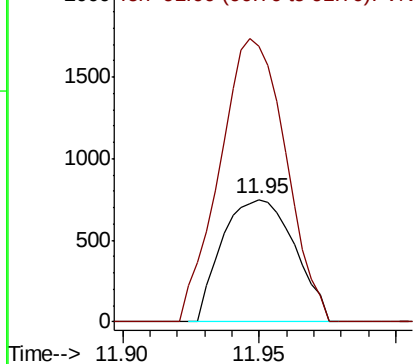


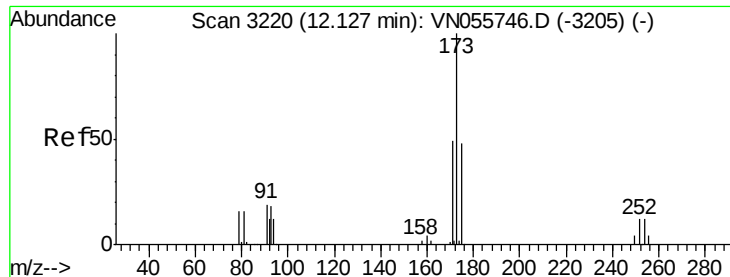
#69
o-Xylene
Concen: 0.213 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN055944.D
Acq: 1 Jun 2019 3:16

Tgt Ion:106 Resp: 1382
Ion Ratio Lower Upper
106 100
91 210.6 104.7 314.1



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN0

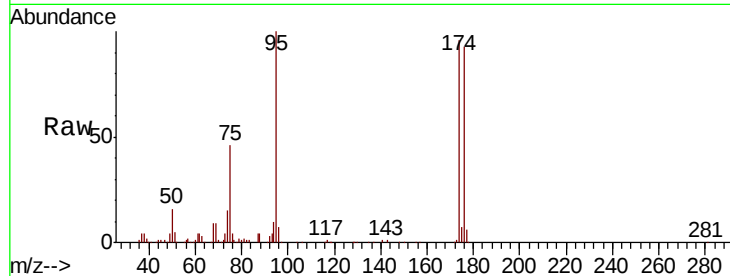




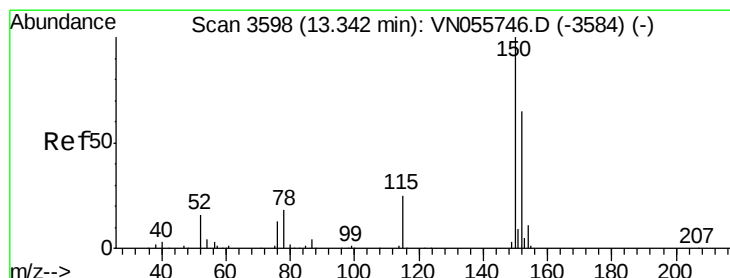
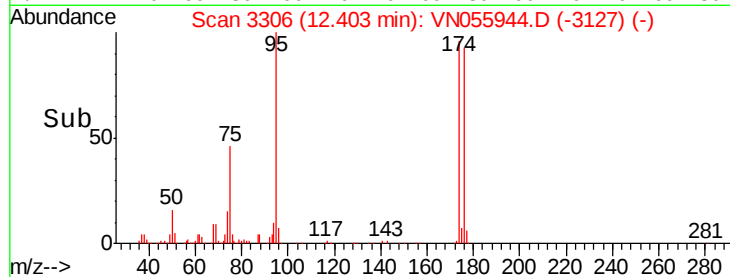
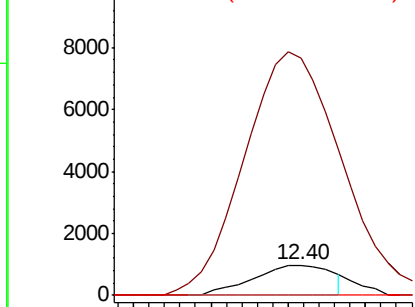
#71
Bromoform
Concen: 0.422 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN055944.D
Acq: 1 Jun 2019 3:16

Instrument :
MSVOA_N
ClientSampled :
COMP-3

Tot Ion:173 Resp: 1384
Ion Ratio Lower Upper
173 100
175 855.3 24.3 72.8#
254 0.0 0.0 0.0

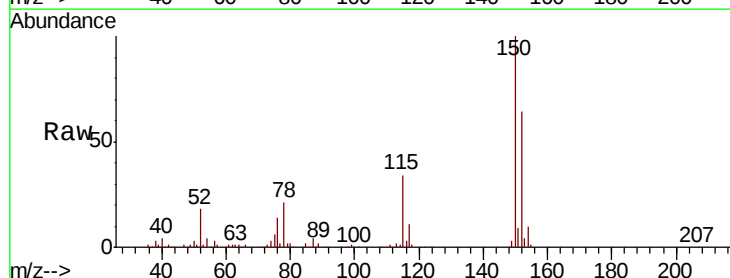


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

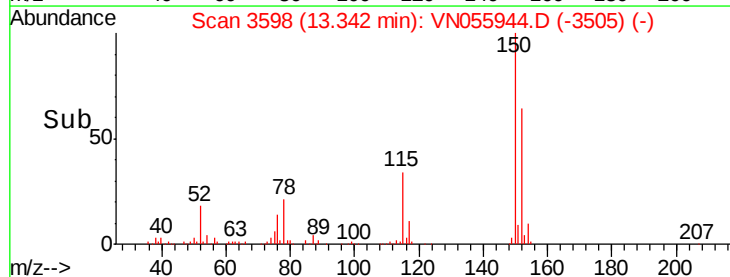
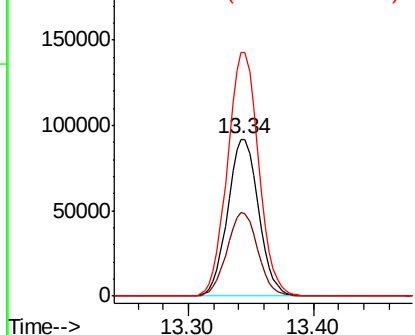


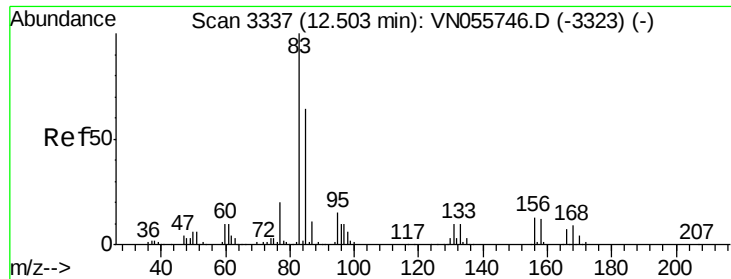
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055944.D
Acq: 1 Jun 2019 3:16

Tgt Ion:152 Resp: 157307
Ion Ratio Lower Upper
152 100
115 53.1 27.0 81.0
150 156.5 0.0 343.2



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





#75

1,1,2,2-Tetrachloroethane

Concen: 60.362 ug/l

RT: 12.36 min Scan# 3294

Delta R.T. -0.14 min

Lab File: VN055944.D

Acq: 1 Jun 2019 3:16

Instrument :

MSVOA_N

ClientSampleId :

COMP-3

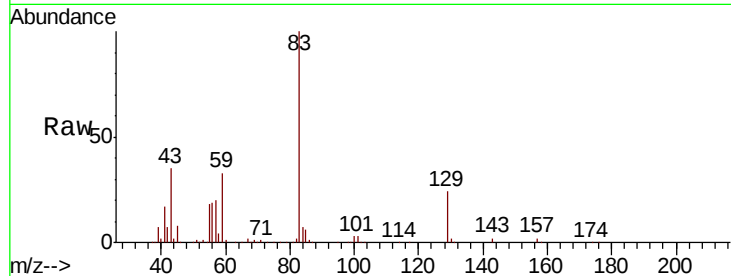
Tot Ion: 83 Resp: 197773

Ion Ratio Lower Upper

83 100

131 0.1 5.4 16.2#

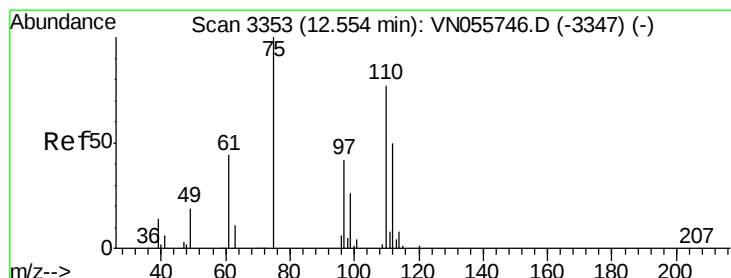
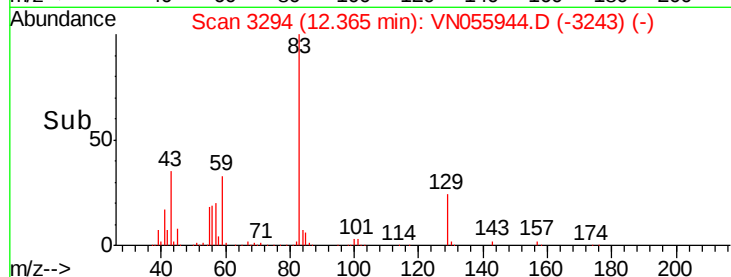
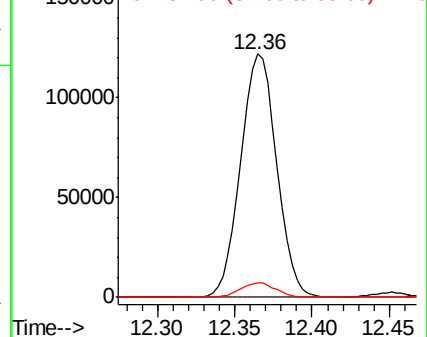
85 5.8 32.4 97.0#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 34.045 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055944.D

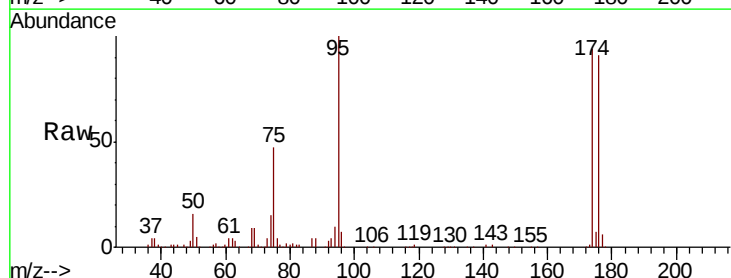
Acq: 1 Jun 2019 3:16

Tgt Ion: 75 Resp: 94939

Ion Ratio Lower Upper

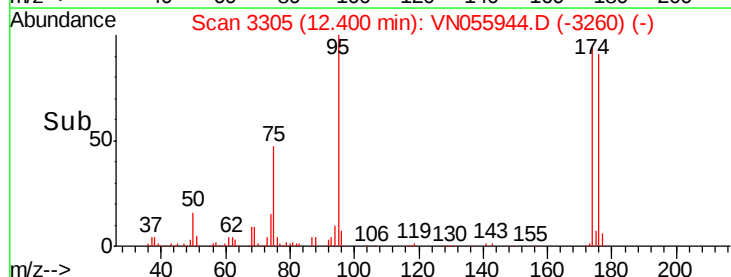
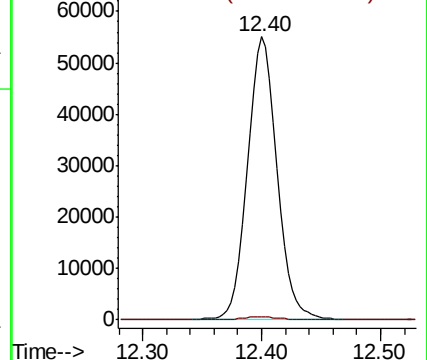
75 100

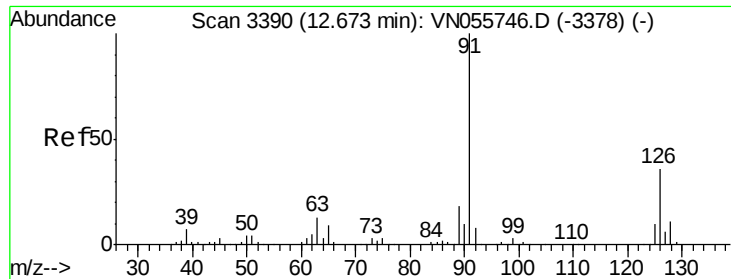
77 1.2 0.0 0.0#



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: 12.59 min Scan# 3363

Delta R.T. -0.09 min

Lab File: VN055944.D

Acq: 1 Jun 2019 3:16

Instrument :

MSVOA_N

ClientSampled :

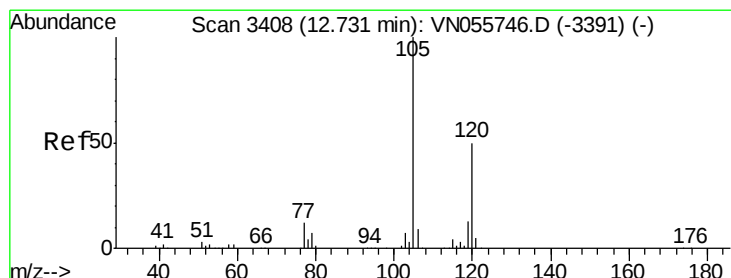
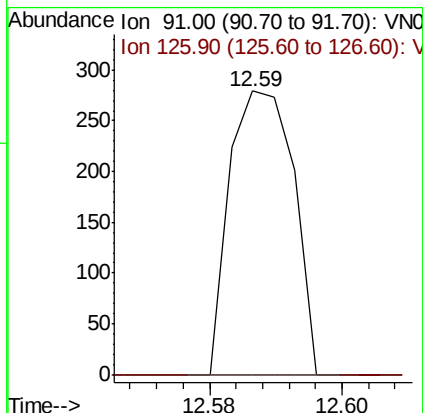
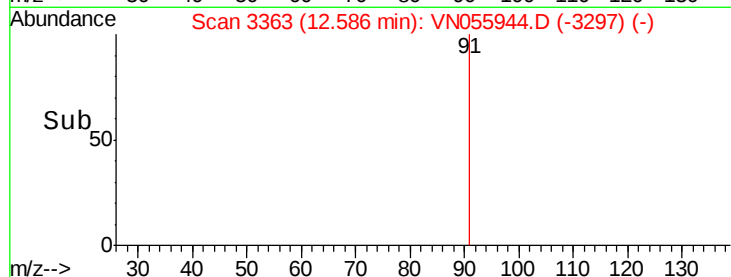
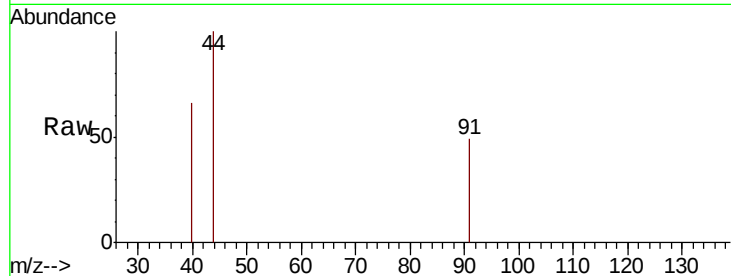
COMP-3

Tot Ion: 91 Resp: 188

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.74 min Scan# 3410

Delta R.T. 0.01 min

Lab File: VN055944.D

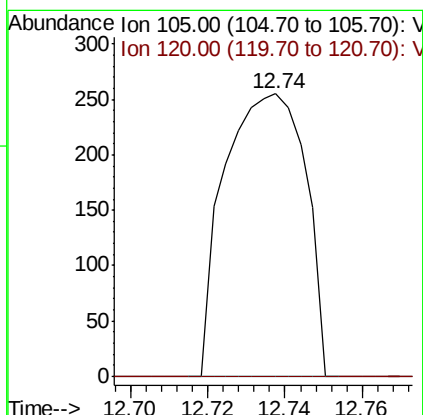
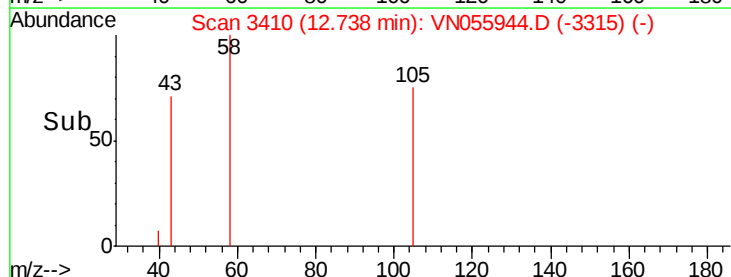
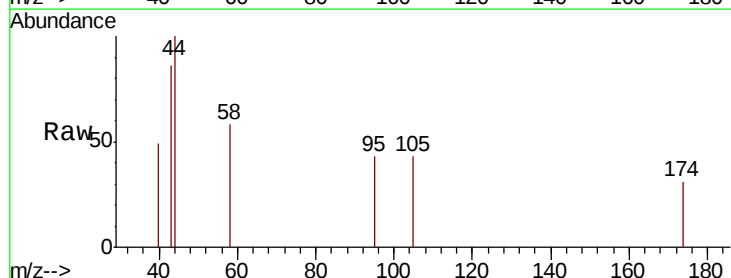
Acq: 1 Jun 2019 3:16

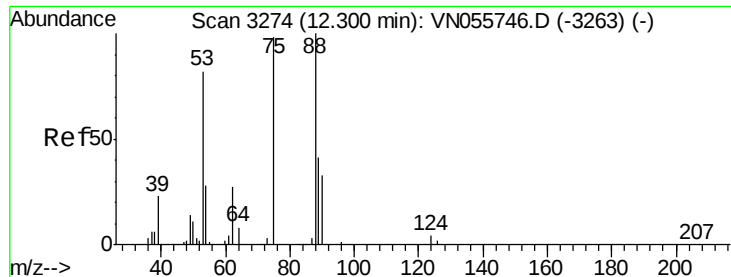
Tgt Ion: 105 Resp: 370

Ion Ratio Lower Upper

105 100

120 0.0 24.7 74.1#

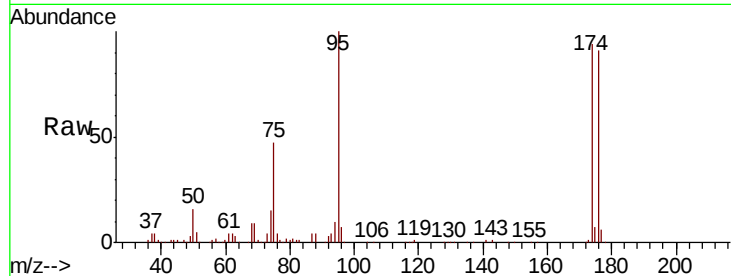




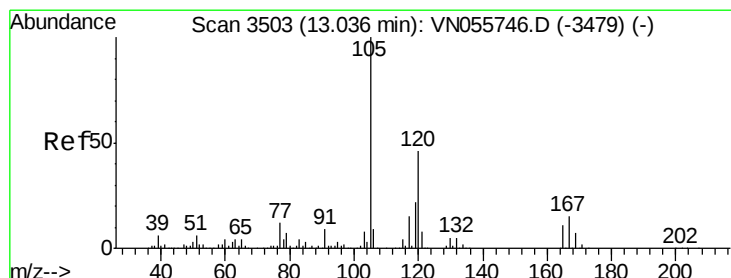
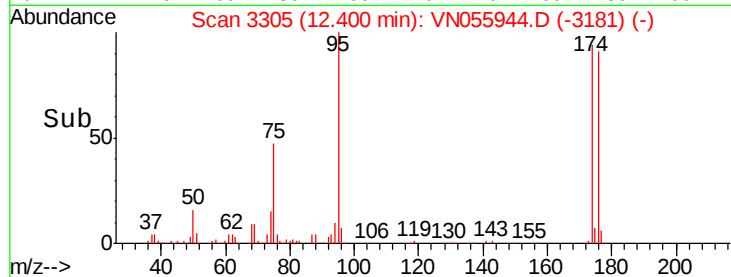
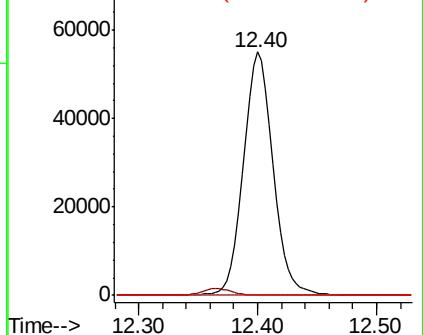
#81
trans-1,4-Dichloro-2-butene
Concen: 81.203 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN055944.D
Acq: 1 Jun 2019 3:16

Instrument :
MSVOA_N
ClientSampled :
COMP-3

Tot Ion: 75 Resp: 94939
Ion Ratio Lower Upper
75 100
53 0.0 68.1 102.1#
89 0.0 36.9 55.3#

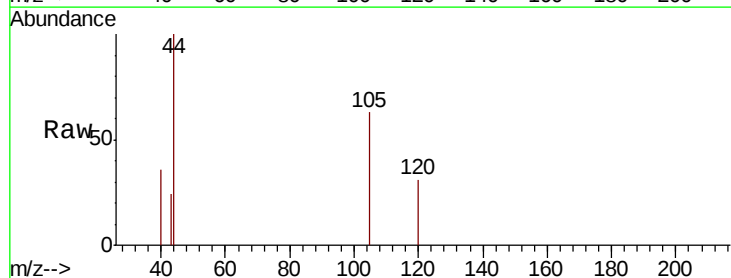


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

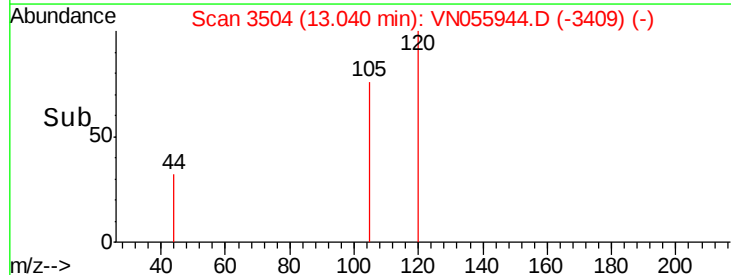
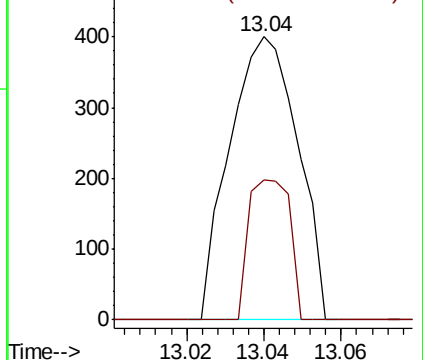


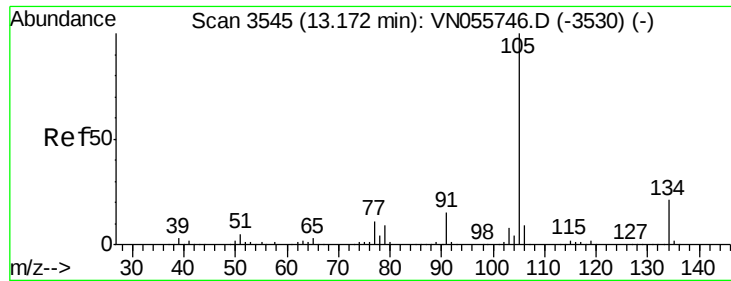
#84
1,2,4-Trimethylbenzene
Concen: Below Cal
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN055944.D
Acq: 1 Jun 2019 3:16

Tgt Ion: 105 Resp: 489
Ion Ratio Lower Upper
105 100
120 29.7 23.0 69.0



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: 13.04 min Scan# 3504

Delta R.T. -0.13 min

Lab File: VN055944.D

Acq: 1 Jun 2019 3:16

Instrument :

MSVOA_N

ClientSampleId :

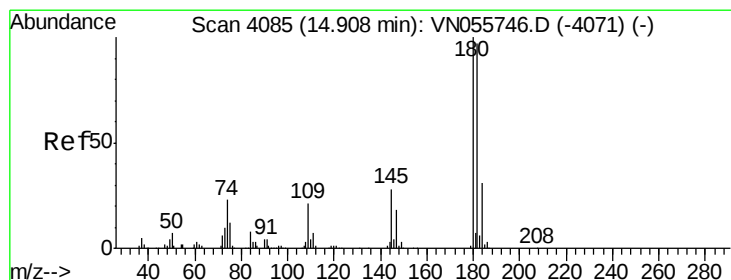
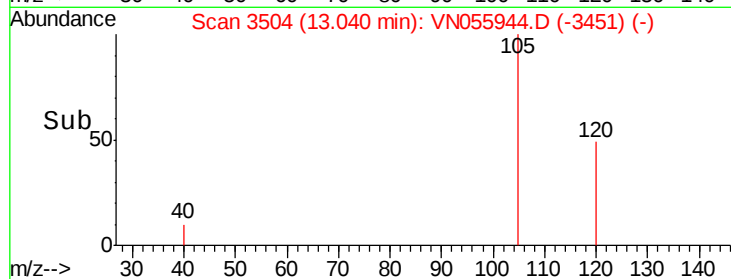
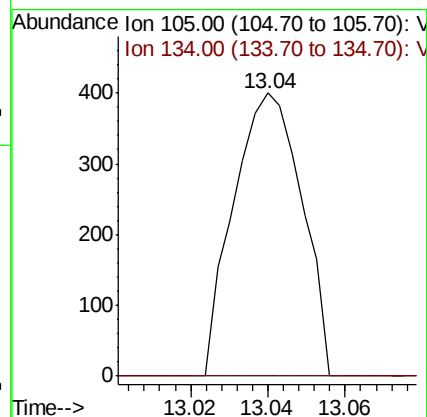
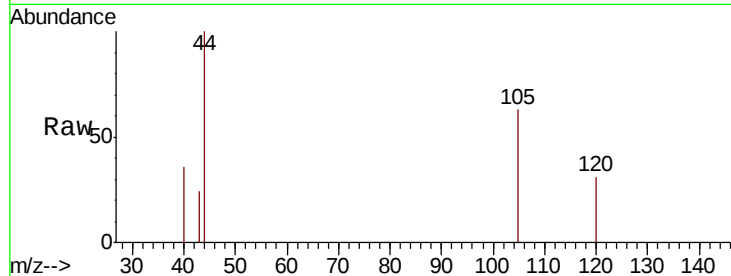
COMP-3

Tot Ion:105 Resp: 489

Ion Ratio Lower Upper

105 100

134 0.0 10.4 31.2#



#93

1,2,4-Trichlorobenzene

Concen: 3.666 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.01 min

Lab File: VN055944.D

Acq: 1 Jun 2019 3:16

Tgt Ion:180 Resp: 95

Ion Ratio Lower Upper

180 100

182 0.0 48.3 144.9#

145 0.0 14.0 41.9#

