

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN053119\
 Data File : VN055945.D
 Acq On : 1 Jun 2019 3:41
 Operator : JC/SP
 Sample : K3125-26 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 13892

Quant Time: Jun 01 04:09:08 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

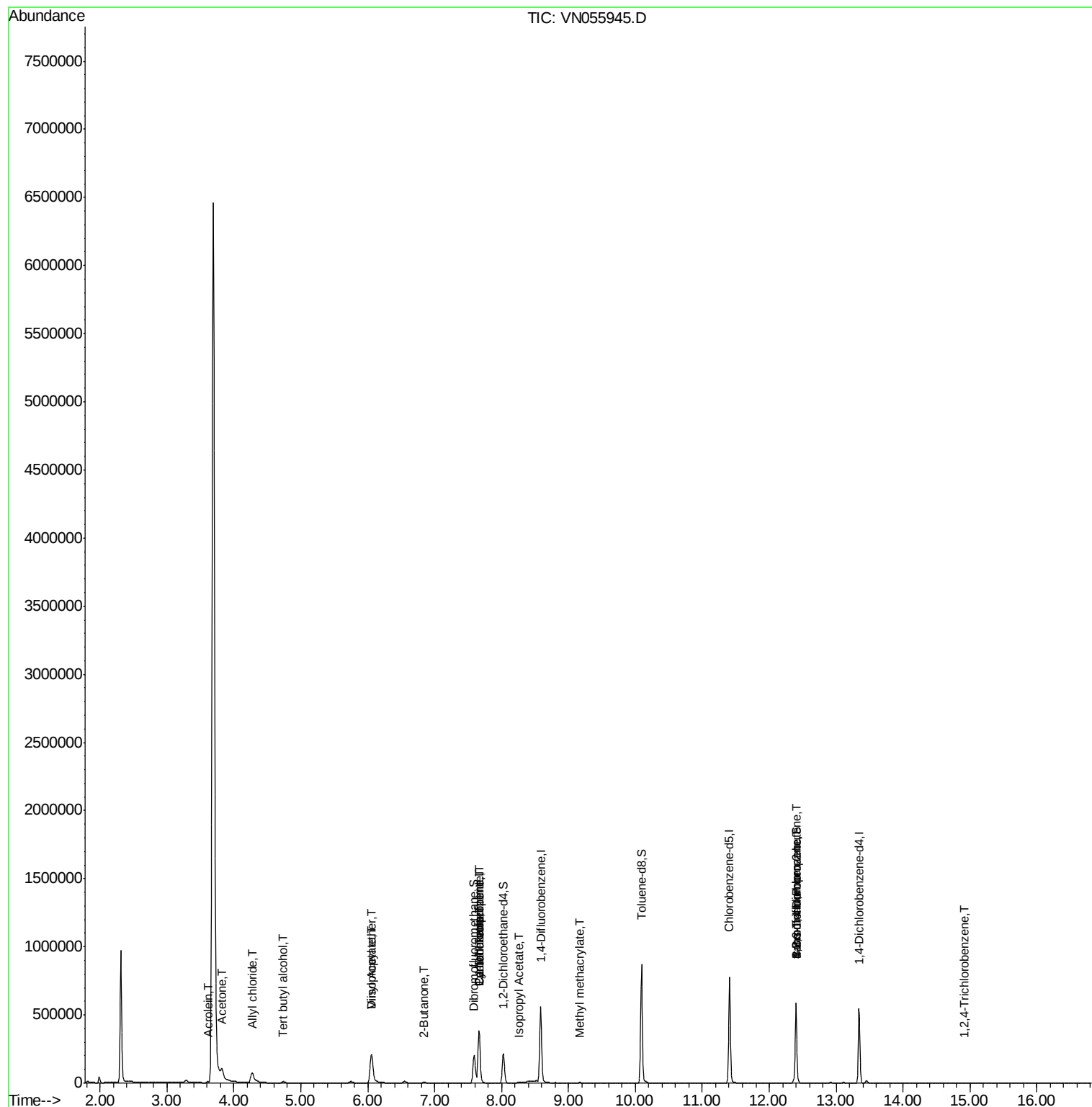
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	362068	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	543376	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	499179	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	166748	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	182197	48.73	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.46%	
35) Dibromofluoromethane	7.59	113	157181	45.75	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.50%	
50) Toluene-d8	10.09	98	644549	48.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.82%	
62) 4-Bromofluorobenzene	12.40	95	206318	45.66	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.32%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.74	59	8697	12.173	ug/l #	80
13) Acrolein	3.61	56	11489	22.459	ug/l #	15
14) Allyl chloride	4.27	41	157278	29.794	ug/l #	39
16) Acetone	3.82	43	87617	53.306	ug/l #	1
22) Diisopropyl ether	6.06	45	17264	1.681	ug/l #	1
23) Vinyl Acetate	6.06	43	42020	4.773	ug/l #	71
25) 2-Butanone	6.85	43	3718	1.620	ug/l	97
31) Cyclohexane	7.66	56	5353	0.954	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	21874	4.619	ug/l #	47
38) Carbon Tetrachloride	7.66	117	29922	6.066	ug/l #	14
43) Isopropyl Acetate	8.26	43	3155	0.410	ug/l #	53
48) Methyl methacrylate	9.17	41	1115	0.315	ug/l #	22
71) Bromoform	12.40	173	1437	0.423	ug/l #	1
73) Isopropylbenzene	12.41	105	64	Below Cal	#	48
74) N-amyl acetate	12.08	43	121	Below Cal	#	43
75) 1,1,2,2-Tetrachloroethane	12.37	83	11325	Below Cal	#	32
76) 1,2,3-Trichloropropane	12.40	75	96310	32.437	ug/l #	100
79) 2-Chlorotoluene	12.60	91	131	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	728	Below Cal		79
81) trans-1,4-Dichloro-2-buten	12.40	75	96310	77.712	ug/l #	15
83) tert-Butylbenzene	13.04	119	135	Below Cal	#	28
84) 1,2,4-Trimethylbenzene	13.04	105	1725	Below Cal		95
85) sec-Butylbenzene	13.17	105	102	Below Cal	#	55
93) 1,2,4-Trichlorobenzene	14.91	180	98	3.665	ug/l #	12

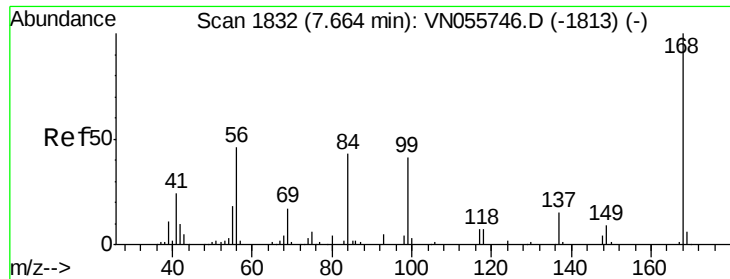
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN055945.D

Acq: 1 Jun 2019 3:41

Instrument :

MSVOA_N

ClientSampleId :

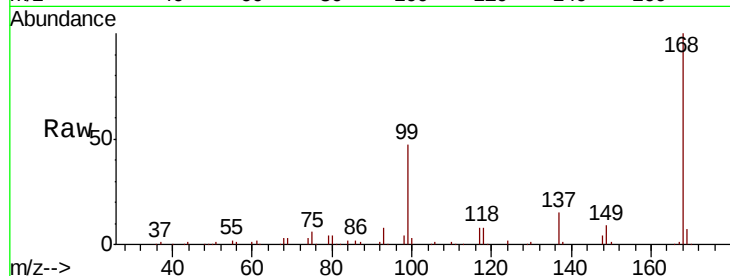
13892

Tot Ion:168 Resp: 362068

Ion Ratio Lower Upper

168 100

99 47.0 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

150000

100000

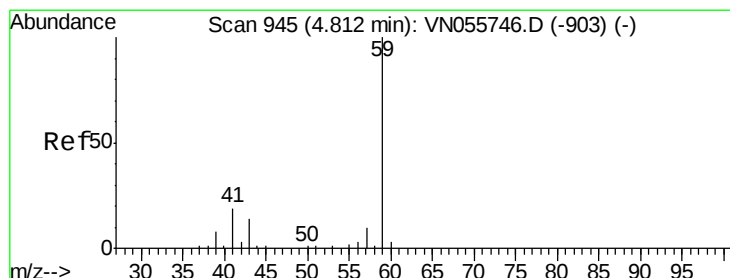
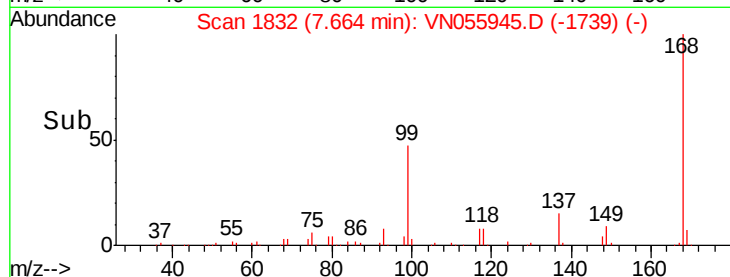
50000

0

7.66

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 12.173 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.07 min

Lab File: VN055945.D

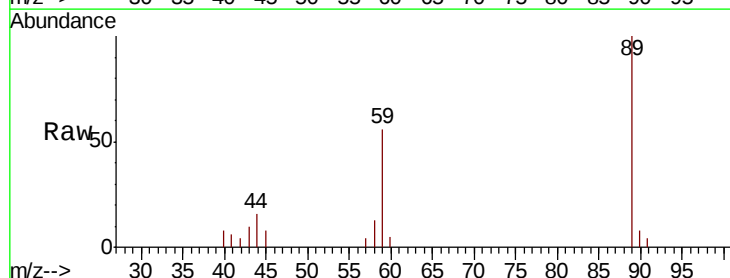
Acq: 1 Jun 2019 3:41

Tgt Ion: 59 Resp: 8697

Ion Ratio Lower Upper

59 100

57 2.2 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

2500

2000

1500

1000

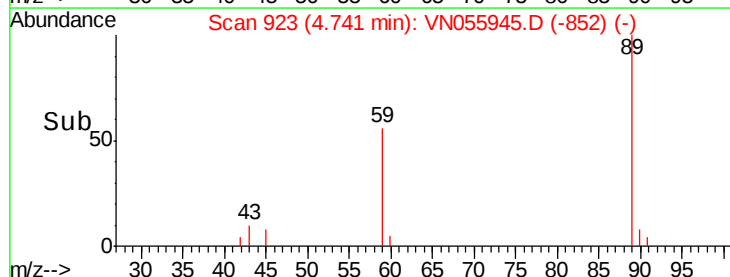
500

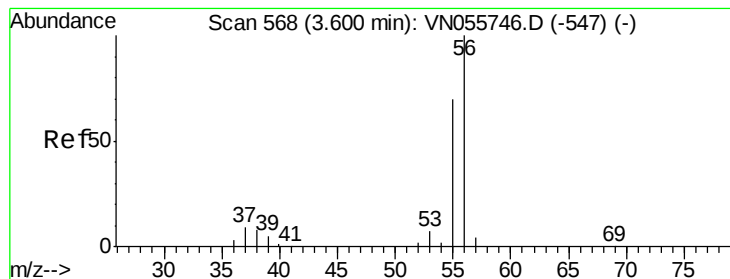
0

4.74

4.70 4.80

Time-->





#13

Acrolein

Concen: 22.459 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN055945.D

Acq: 1 Jun 2019 3:41

Instrument :

MSVOA_N

ClientSampled :

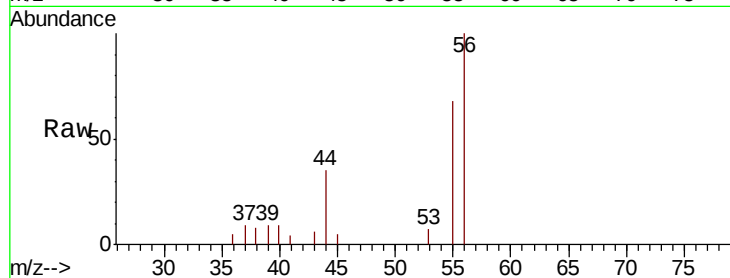
13892

Tot Ion: 56 Resp: 11489

Ion Ratio Lower Upper

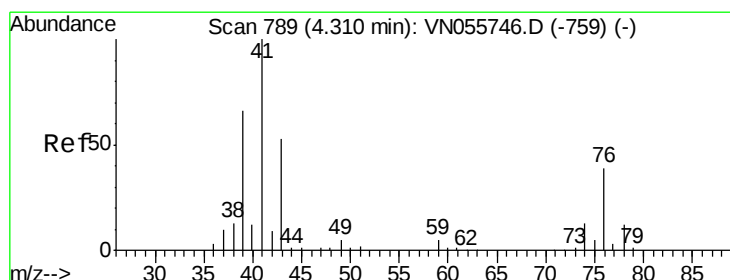
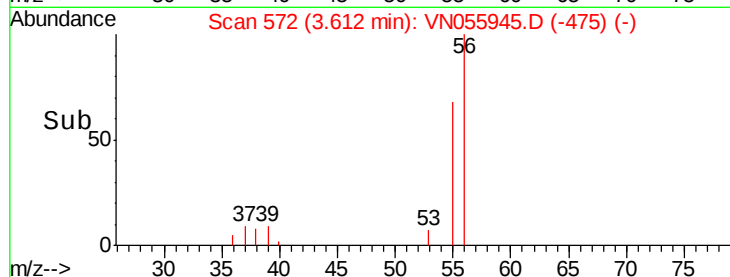
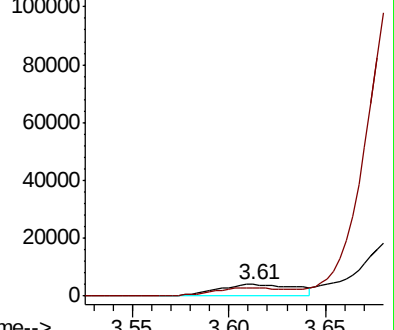
56 100

55 0.0 55.4 83.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 29.794 ug/l

RT: 4.27 min Scan# 777

Delta R.T. -0.04 min

Lab File: VN055945.D

Acq: 1 Jun 2019 3:41

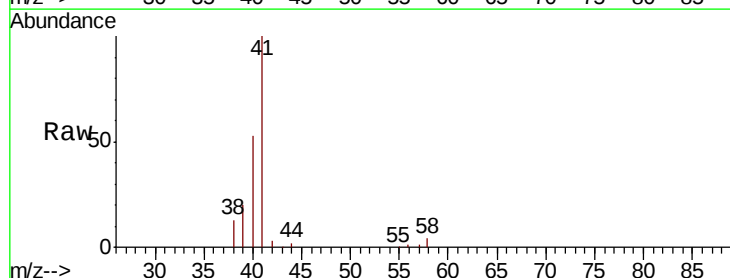
Tgt Ion: 41 Resp: 157278

Ion Ratio Lower Upper

41 100

39 15.7 50.0 75.0#

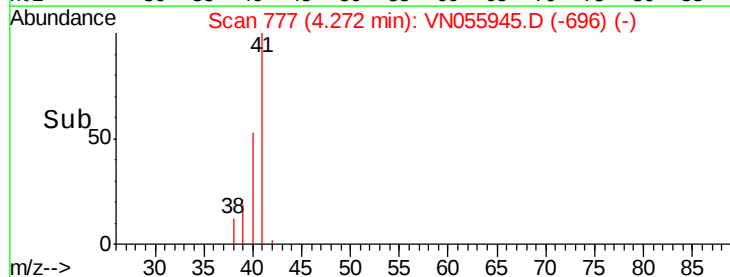
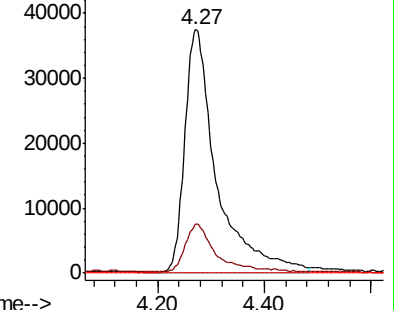
76 0.0 28.2 42.2#

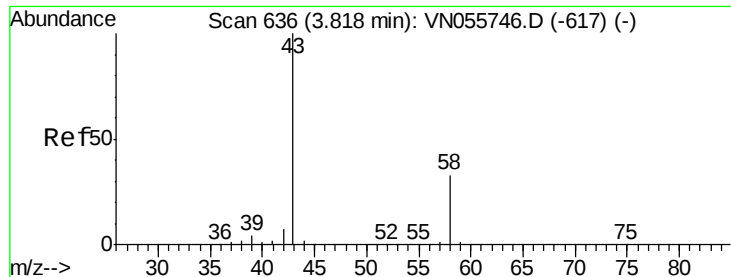


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#16

Acetone

Concen: 53.306 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN055945.D

Acq: 1 Jun 2019 3:41

Instrument :

MSVOA_N

ClientSampled :

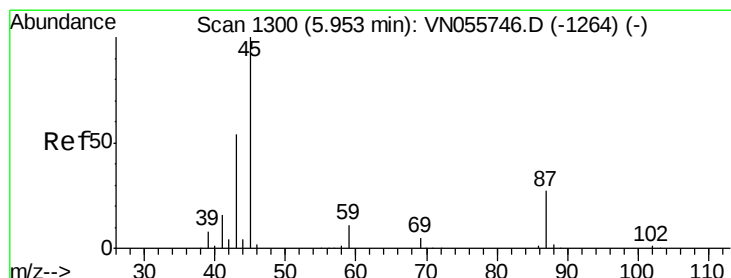
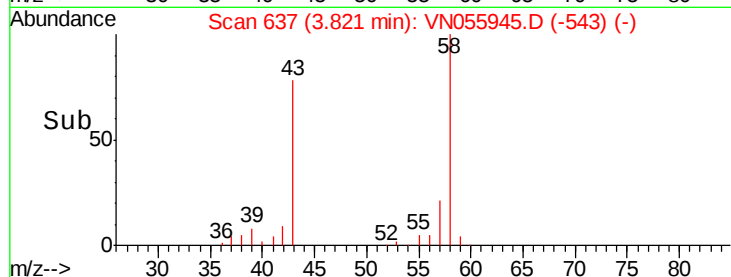
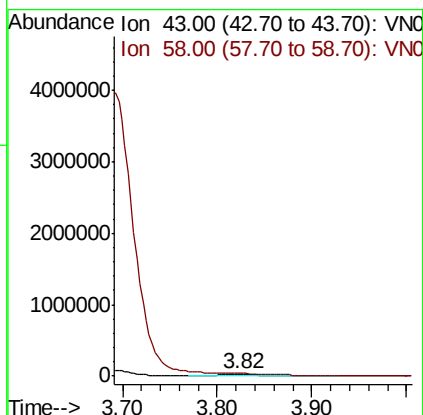
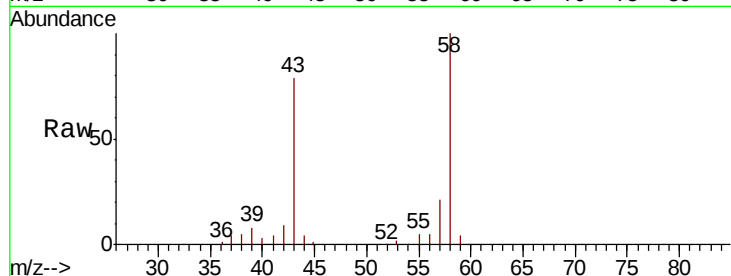
13892

Tot Ion: 43 Resp: 87617

Ion Ratio Lower Upper

43 100

58 96.9 26.6 39.8#



#22

Diisopropyl ether

Concen: 1.681 ug/l

RT: 6.06 min Scan# 1332

Delta R.T. 0.10 min

Lab File: VN055945.D

Acq: 1 Jun 2019 3:41

Tgt Ion: 45 Resp: 17264

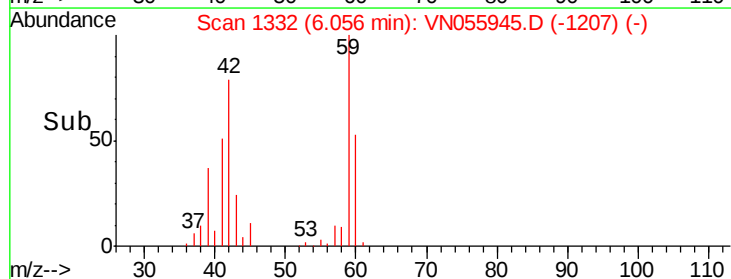
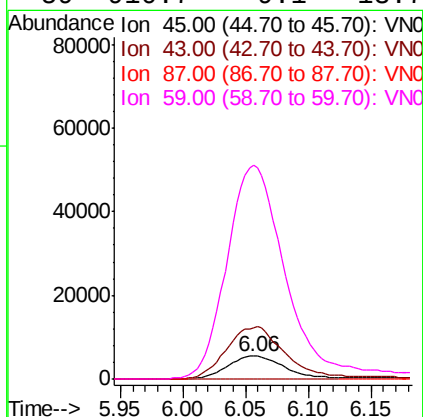
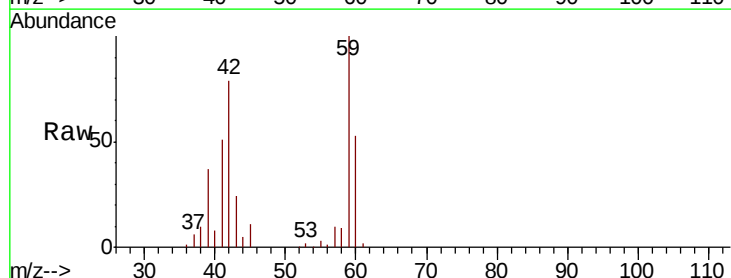
Ion Ratio Lower Upper

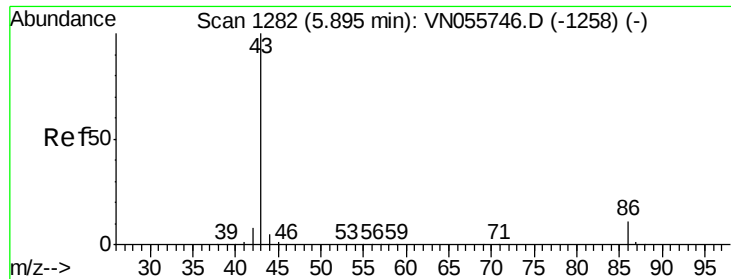
45 100

43 218.1 45.0 67.6#

87 0.0 22.2 33.4#

59 910.7 9.1 13.7#

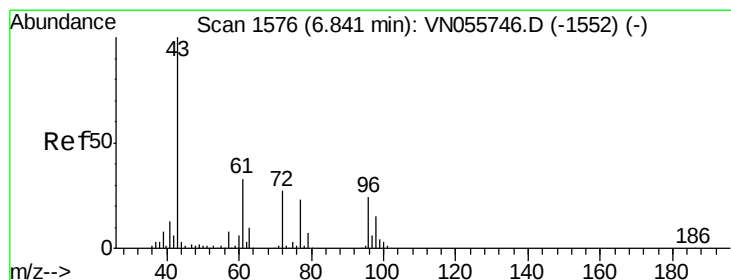
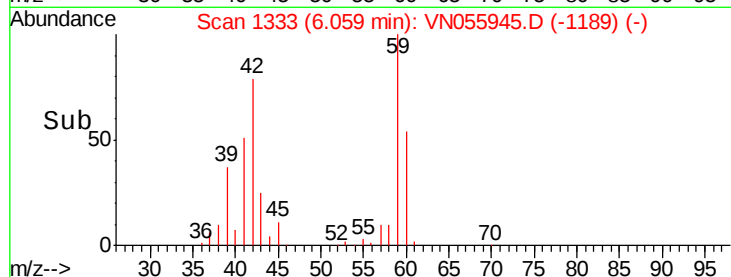
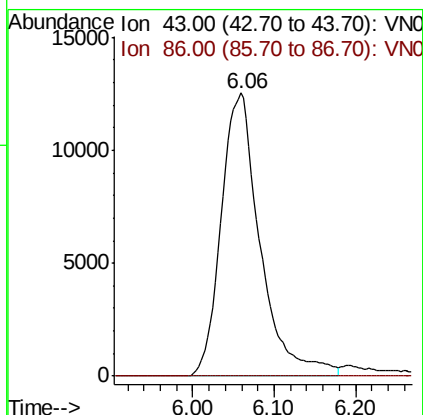
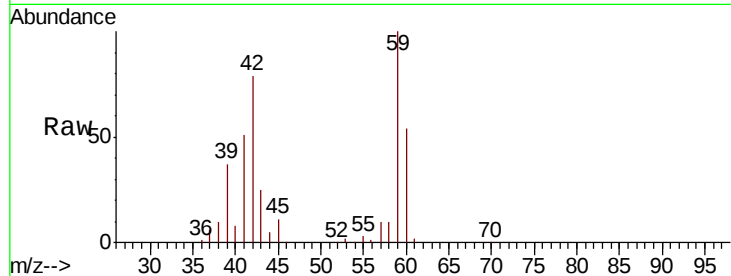




#23
 Vinyl Acetate
 Concen: 4.773 ug/l
 RT: 6.06 min Scan# 1333
 Delta R.T. 0.16 min
 Lab File: VN055945.D
 Acq: 1 Jun 2019 3:41

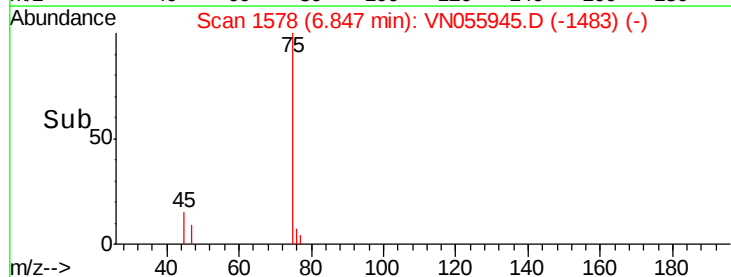
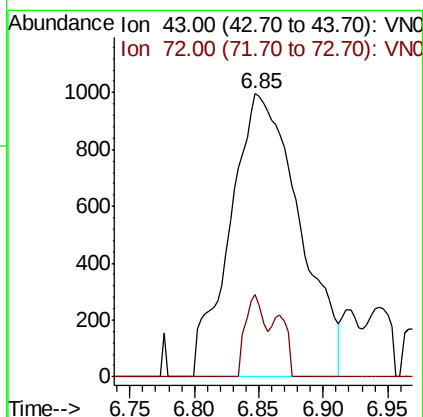
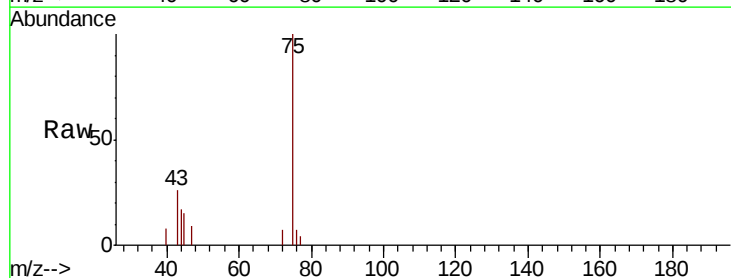
Instrument :
 MSVOA_N
 ClientSampleId :
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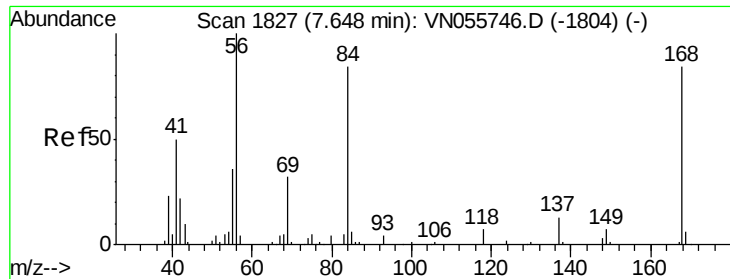
Tot Ion: 43 Resp: 42020
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.6 13.0#



#25
 2-Butanone
 Concen: 1.620 ug/l
 RT: 6.85 min Scan# 1578
 Delta R.T. 0.01 min
 Lab File: VN055945.D
 Acq: 1 Jun 2019 3:41

Tgt Ion: 43 Resp: 3718
 Ion Ratio Lower Upper
 43 100
 72 29.2 21.9 32.9

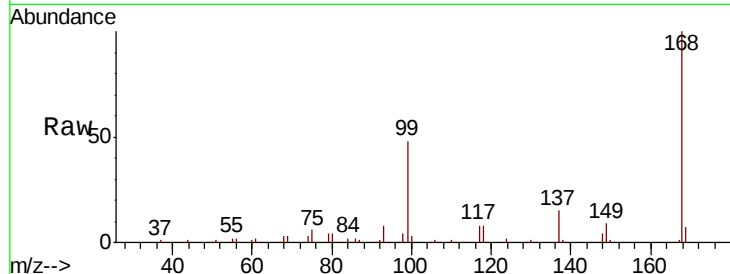




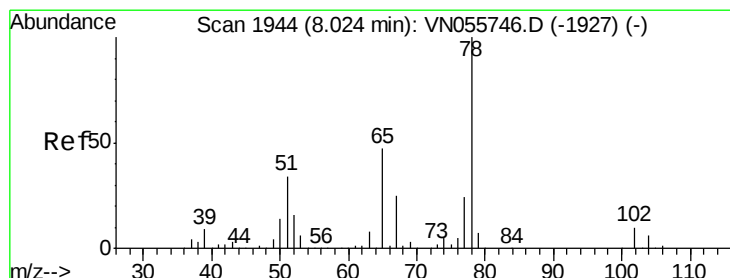
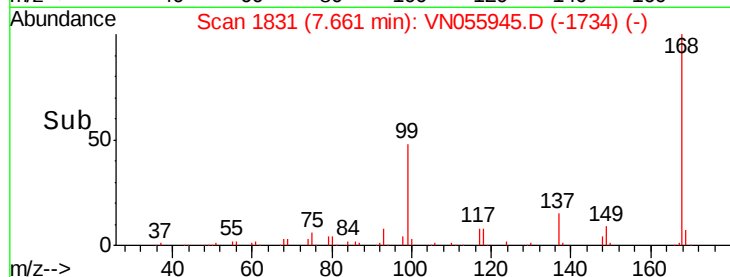
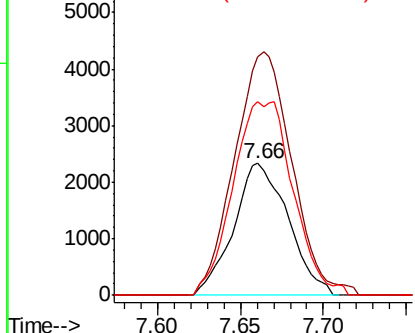
#31
Cvclohexane
Concen: 0.954 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN055945.D
Acq: 1 Jun 2019 3:41

Instrument :
MSVOA_N
ClientSampled :
13892

Tot Ion: 56 Resp: 5353
Ion Ratio Lower Upper
56 100
69 180.9 25.6 38.4#
84 146.3 67.4 101.0#

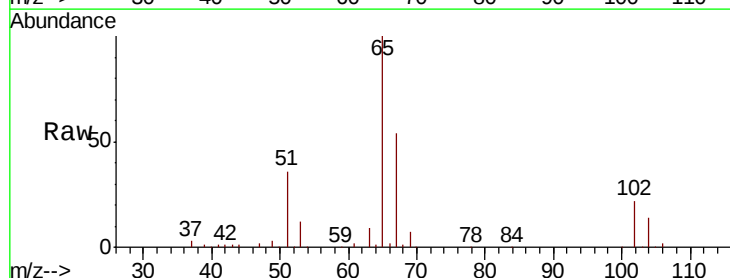


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

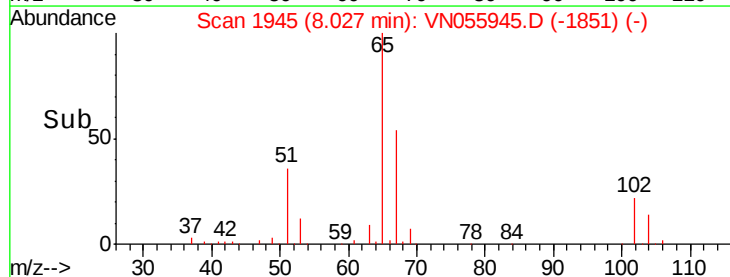
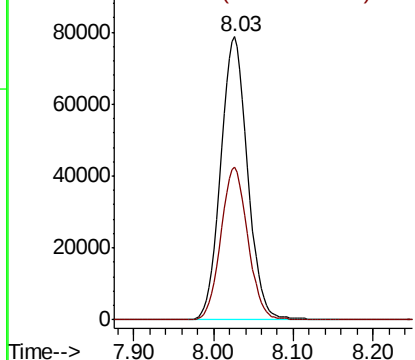


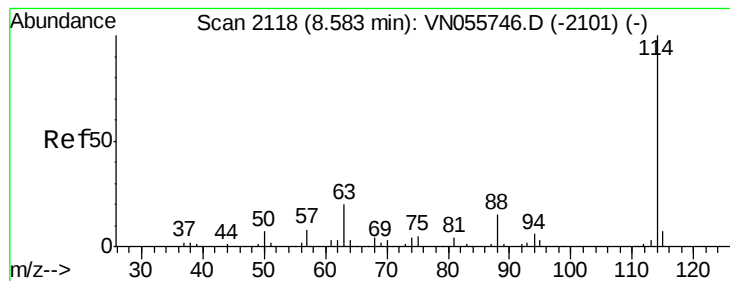
#33
1,2-Dichloroethane-d4
Concen: 48.727 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN055945.D
Acq: 1 Jun 2019 3:41

Tgt Ion: 65 Resp: 182197
Ion Ratio Lower Upper
65 100
67 54.1 0.0 109.2



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN055945.D

Acq: 1 Jun 2019 3:41

Instrument :

MSVOA_N

ClientSampleId :

13892

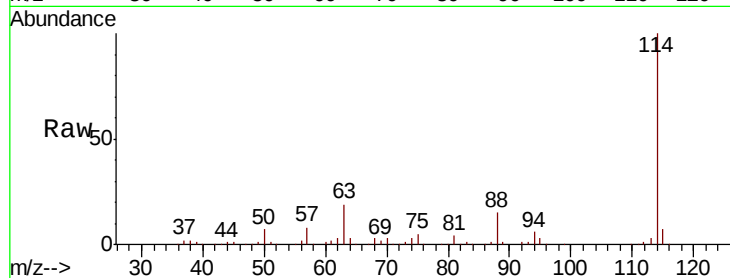
Tot Ion:114 Resp: 543376

Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.2

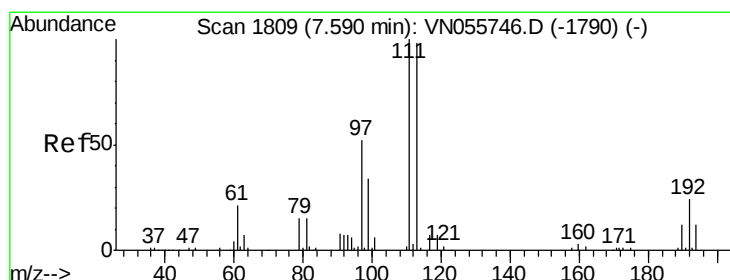
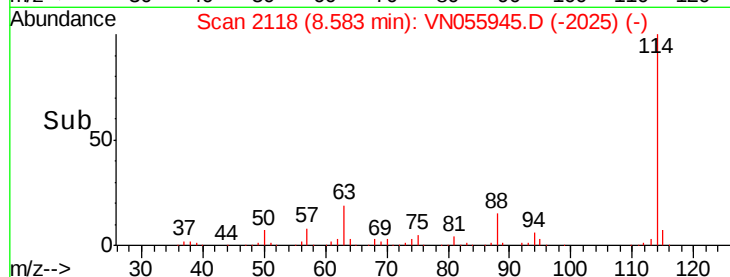
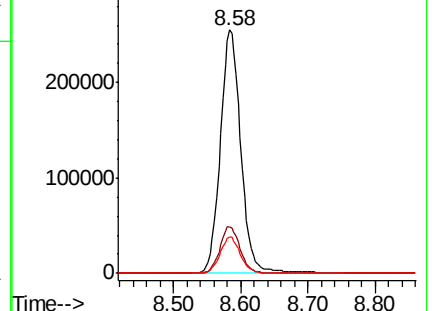
88 14.9 0.0 31.0



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: 45.753 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN055945.D

Acq: 1 Jun 2019 3:41

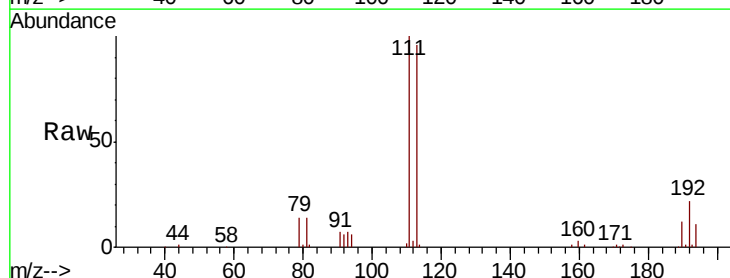
Tgt Ion:113 Resp: 157181

Ion Ratio Lower Upper

113 100

111 102.8 81.9 122.9

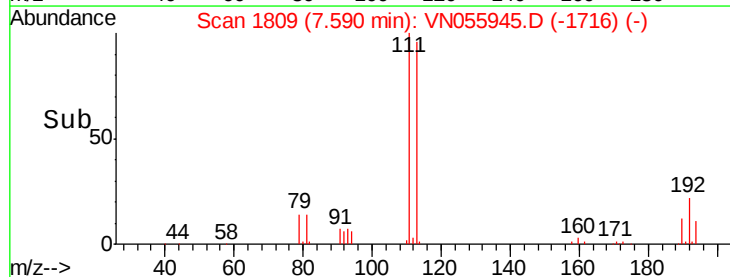
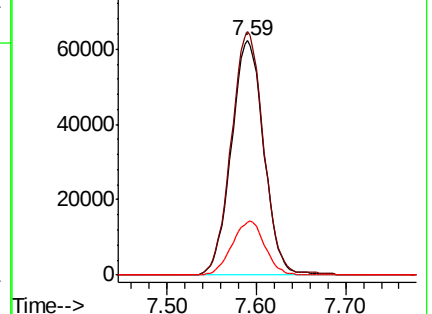
192 23.2 19.5 29.3

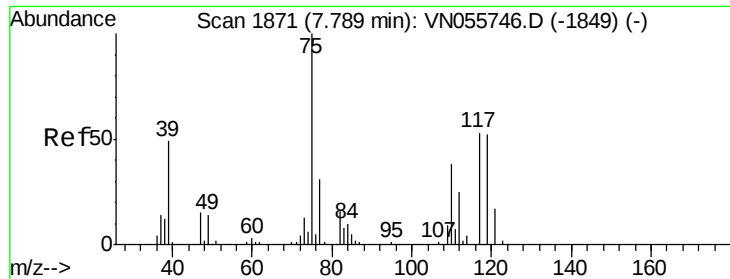


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

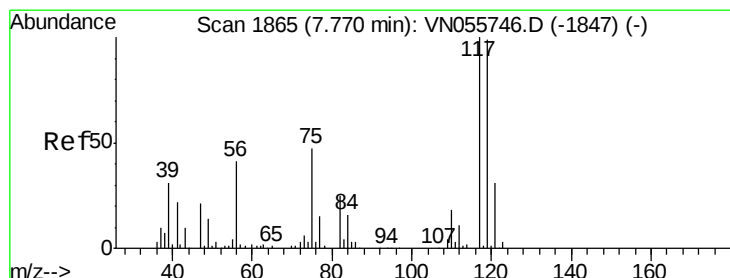
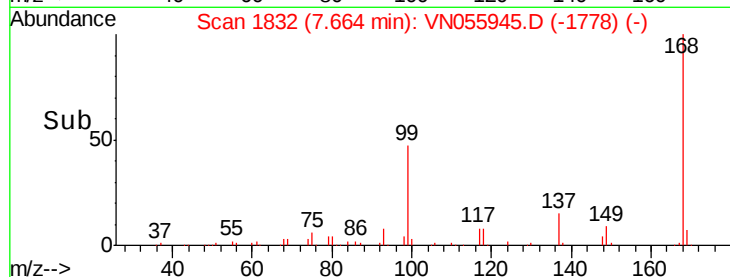
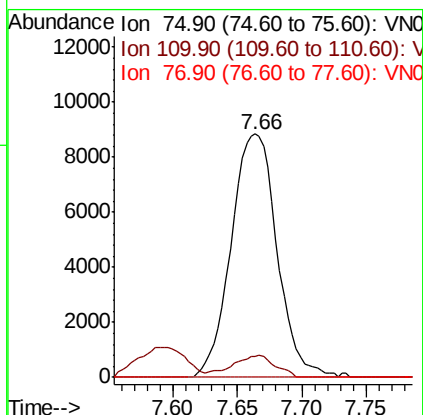
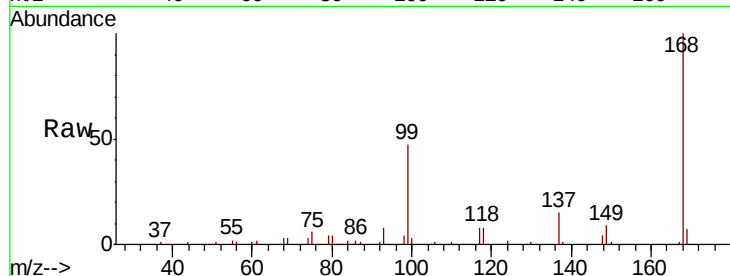




#36
 1,1-Dichloropropene
 Concen: 4.619 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055945.D
 Acq: 1 Jun 2019 3:41

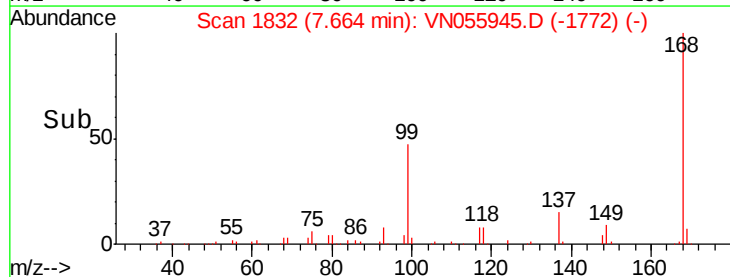
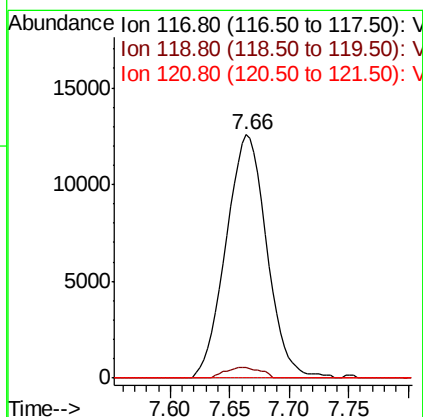
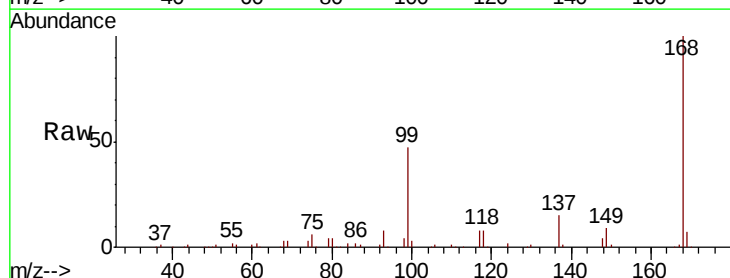
Instrument :
 MSVOA_N
 ClientSampleId :
 13892

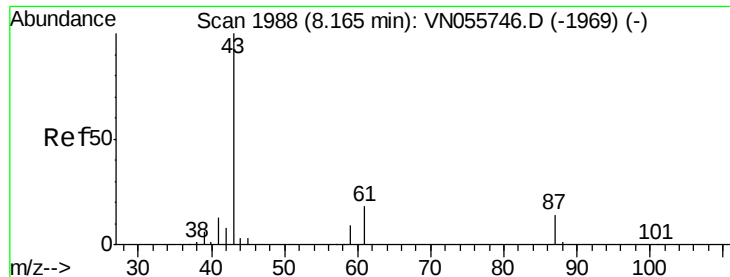
Tot Ion: 75 Resp: 21874
 Ion Ratio Lower Upper
 75 100
 110 8.4 19.0 57.0#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 6.066 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN055945.D
 Acq: 1 Jun 2019 3:41

Tgt Ion: 117 Resp: 29922
 Ion Ratio Lower Upper
 117 100
 119 4.4 79.0 118.6#
 121 0.0 24.7 37.1#





#43

Isopropyl Acetate

Concen: 0.410 ug/l

RT: 8.26 min Scan# 2017

Delta R.T. 0.09 min

Lab File: VN055945.D

Acq: 1 Jun 2019 3:41

Instrument :

MSVOA_N

ClientSampled :

13892

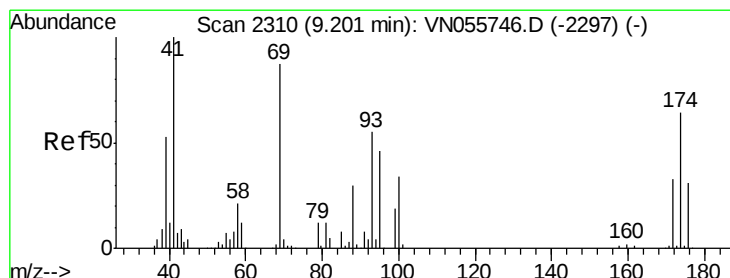
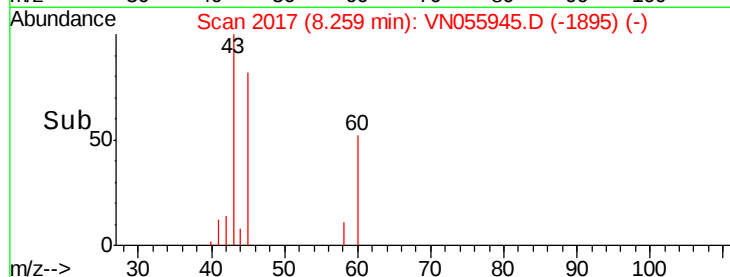
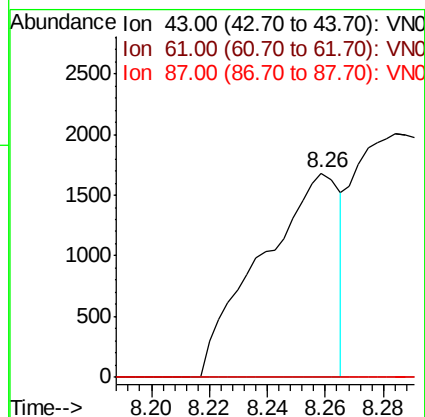
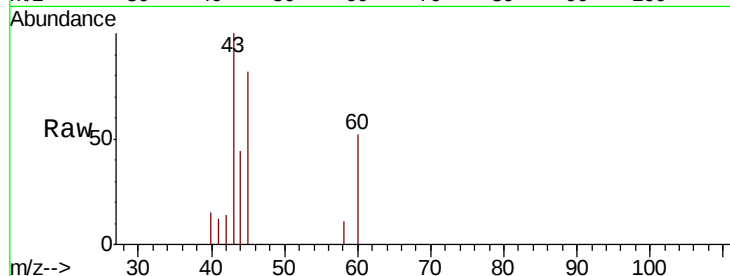
Tot Ion: 43 Resp: 3155

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

87 0.0 11.4 17.2#



#48

Methyl methacrylate

Concen: 0.315 ug/l

RT: 9.17 min Scan# 2300

Delta R.T. -0.03 min

Lab File: VN055945.D

Acq: 1 Jun 2019 3:41

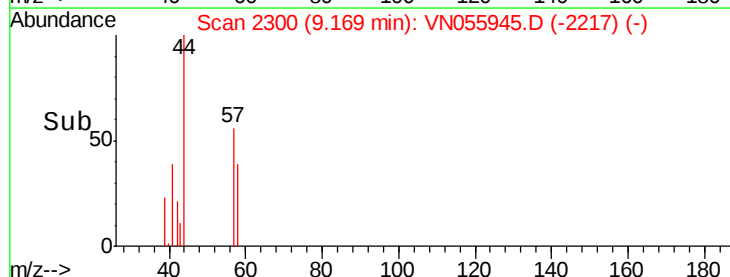
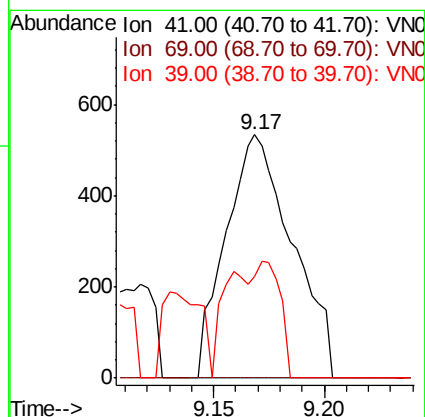
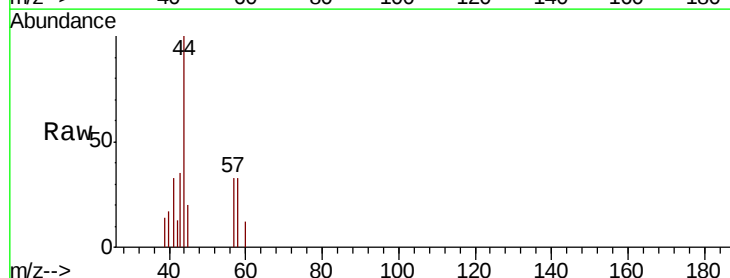
Tgt Ion: 41 Resp: 1115

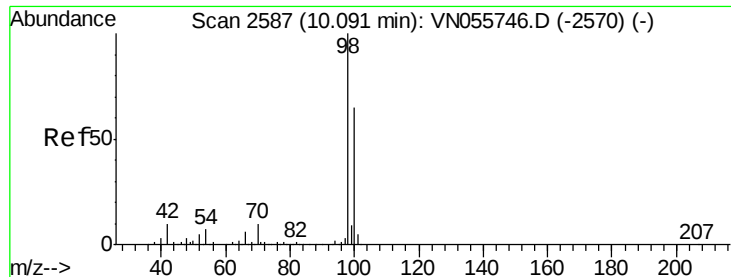
Ion Ratio Lower Upper

41 100

69 0.0 71.0 106.6#

39 17.9 44.2 66.2#





#50

Toluene-d8

Concen: 48.911 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055945.D

Acq: 1 Jun 2019 3:41

Instrument :

MSVOA_N

ClientSampleId :

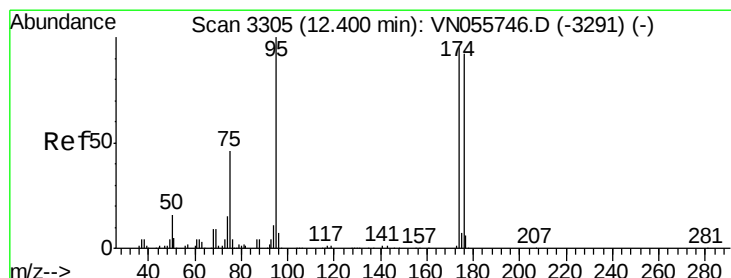
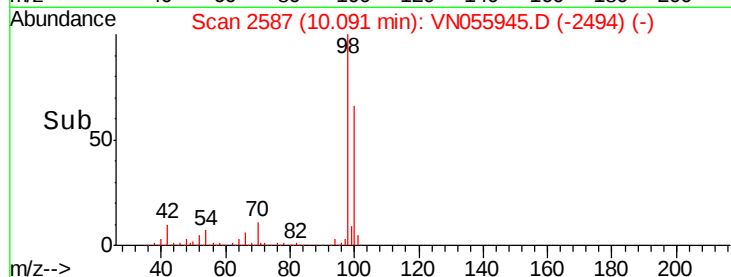
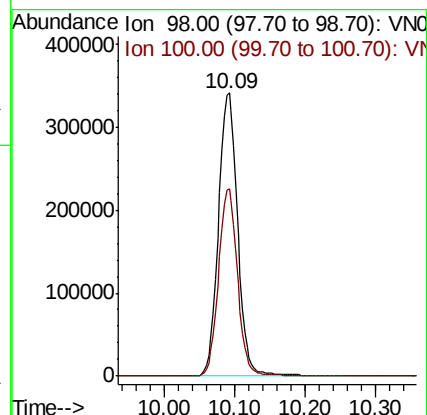
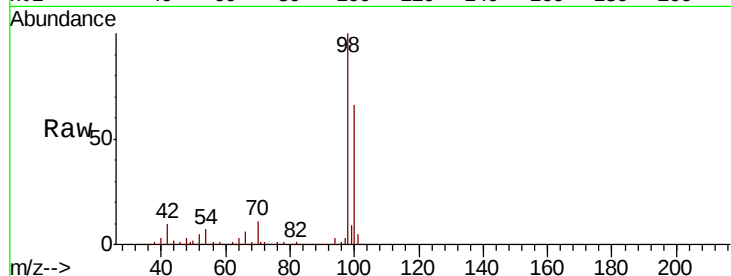
13892

Tot Ion: 98 Resp: 644549

Ion Ratio Lower Upper

98 100

100 65.4 51.9 77.9



#62

4-Bromofluorobenzene

Concen: 45.660 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055945.D

Acq: 1 Jun 2019 3:41

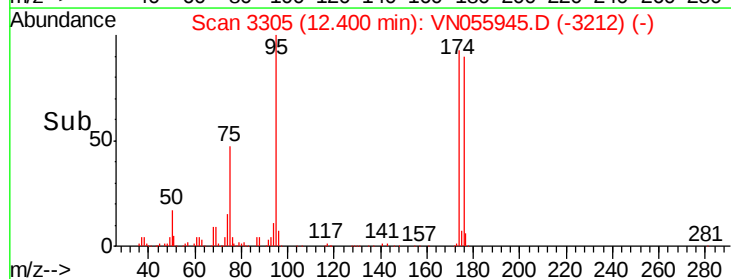
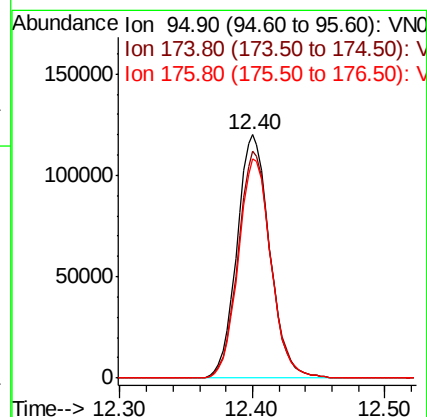
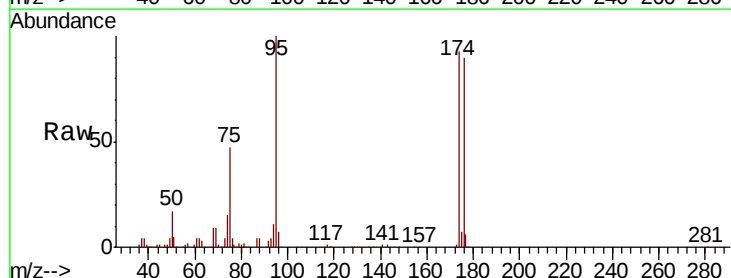
Tgt Ion: 95 Resp: 206318

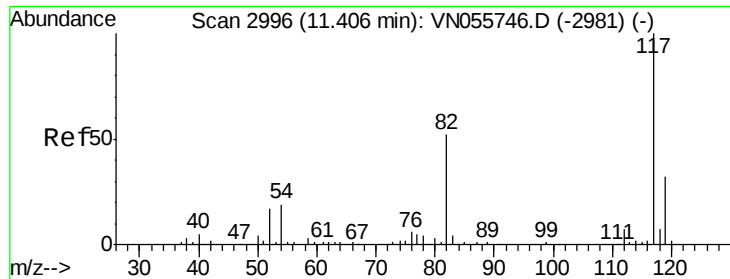
Ion Ratio Lower Upper

95 100

174 92.9 0.0 191.0

176 89.8 0.0 185.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055945.D

Acq: 1 Jun 2019 3:41

Instrument :

MSVOA_N

ClientSampled :

13892

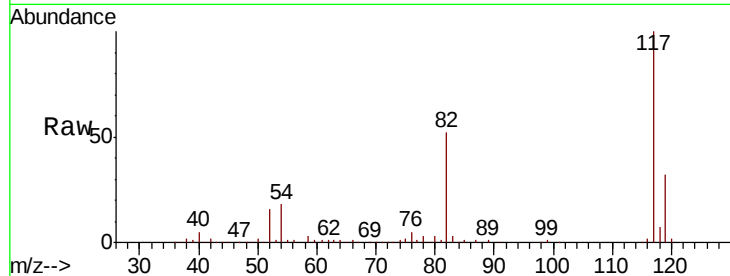
Tot Ion:117 Resp: 499179

Ion Ratio Lower Upper

117 100

82 51.6 41.8 62.8

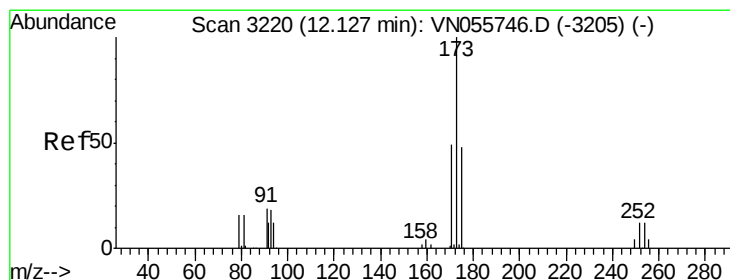
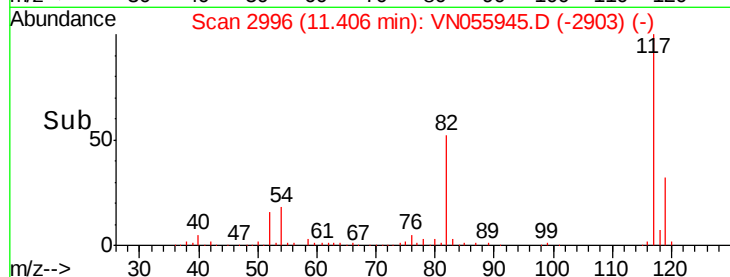
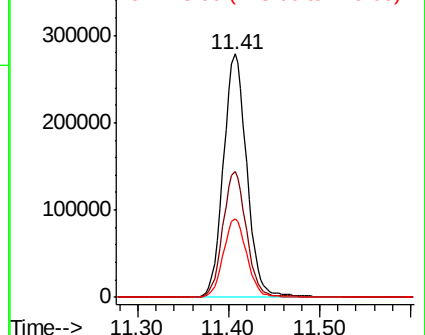
119 32.5 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 0.423 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN055945.D

Acq: 1 Jun 2019 3:41

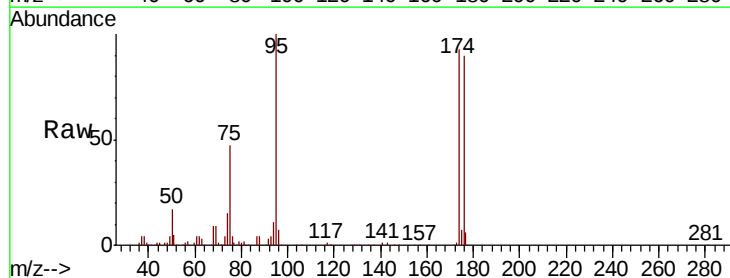
Tgt Ion:173 Resp: 1437

Ion Ratio Lower Upper

173 100

175 868.3 24.3 72.8#

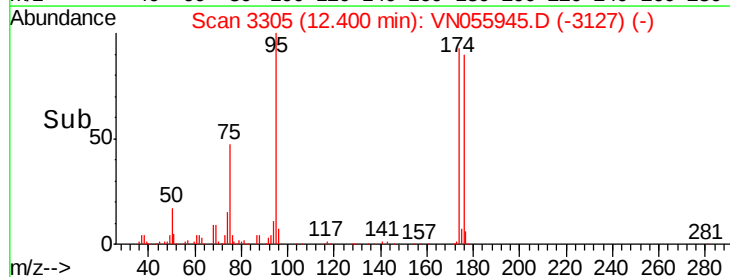
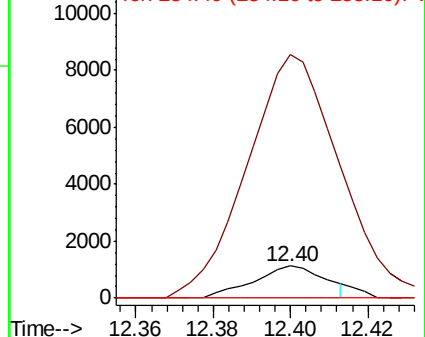
254 0.0 0.0 0.0

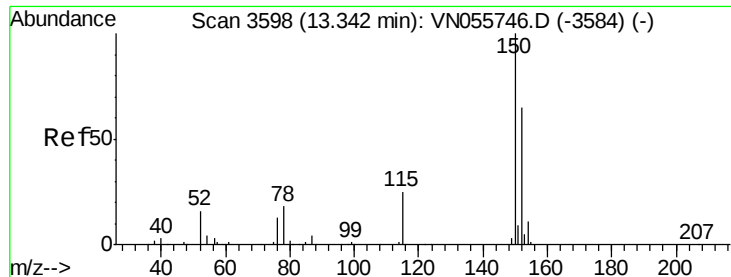


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN055945.D

Acq: 1 Jun 2019 3:41

Instrument :

MSVOA_N

ClientSampleId :

13892

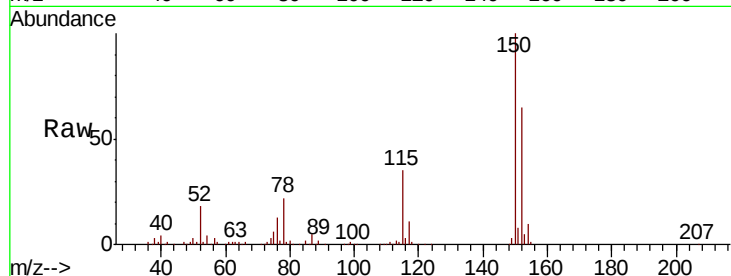
Tot Ion:152 Resp: 166748

Ion Ratio Lower Upper

152 100

115 53.4 27.0 81.0

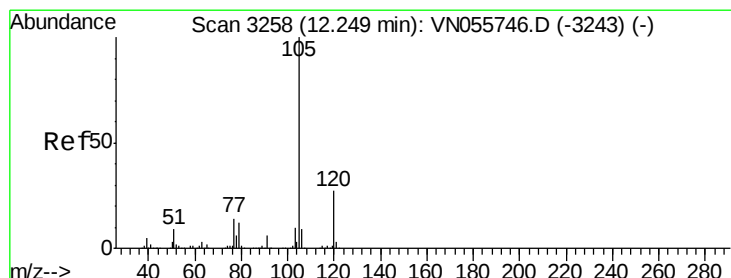
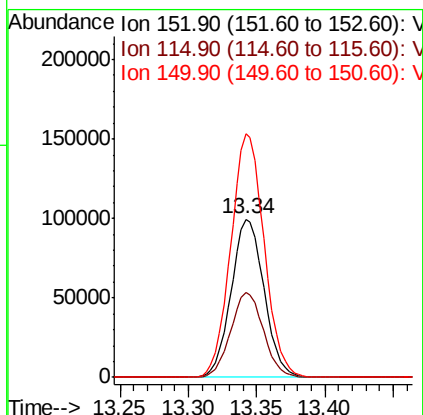
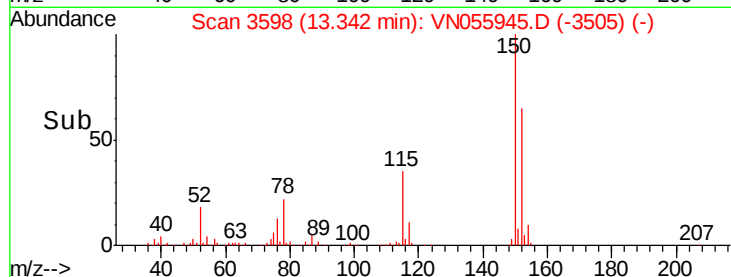
150 155.7 0.0 343.2



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



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.41 min Scan# 3307

Delta R.T. 0.16 min

Lab File: VN055945.D

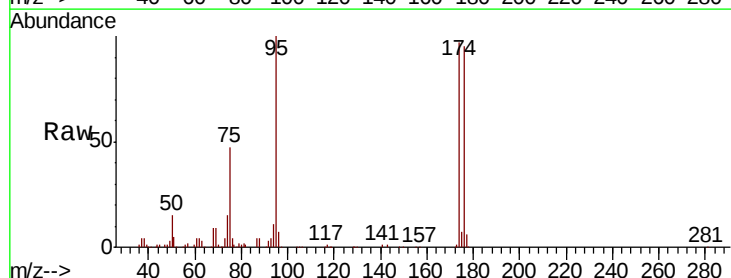
Acq: 1 Jun 2019 3:41

Tgt Ion:105 Resp: 64

Ion Ratio Lower Upper

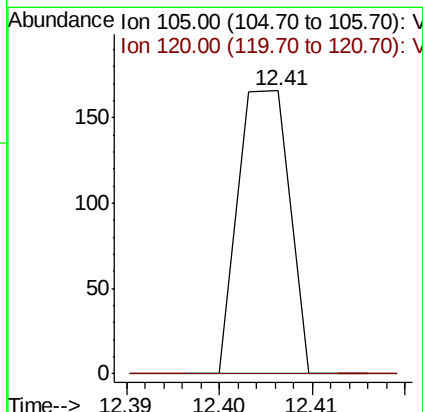
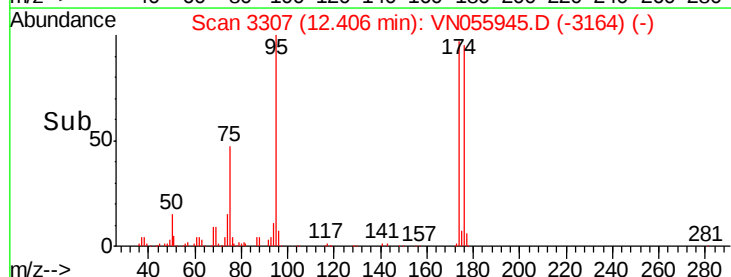
105 100

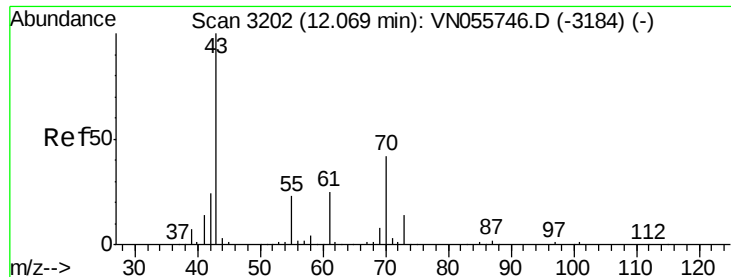
120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: Below Cal

RT: 12.08 min Scan# 3205

Delta R.T. 0.01 min

Lab File: VN055945.D

Acq: 1 Jun 2019 3:41

Instrument :

MSVOA_N

ClientSampleId :

13892

Tot Ion: 43 Resp: 121

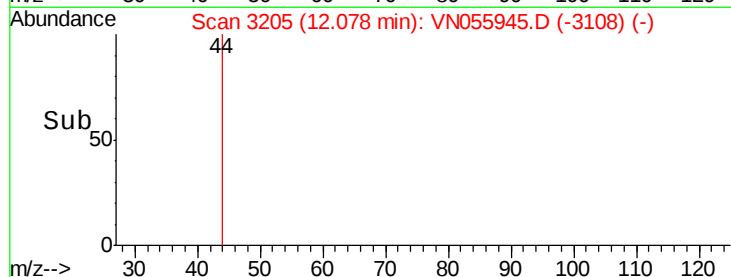
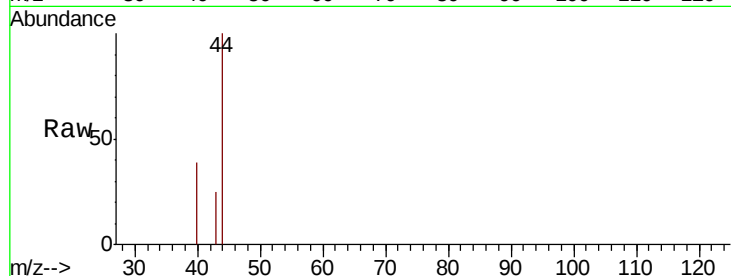
Ion Ratio Lower Upper

43 100

70 0.0 34.0 51.0#

55 0.0 18.6 28.0#

61 0.0 20.0 30.0#

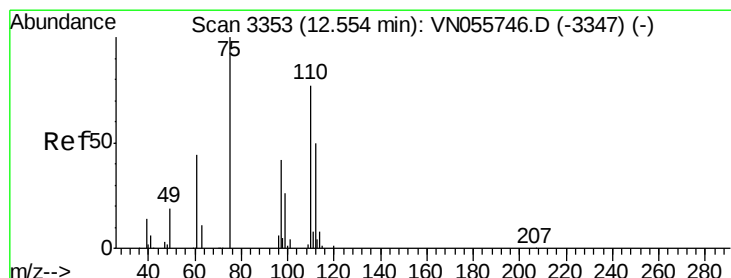
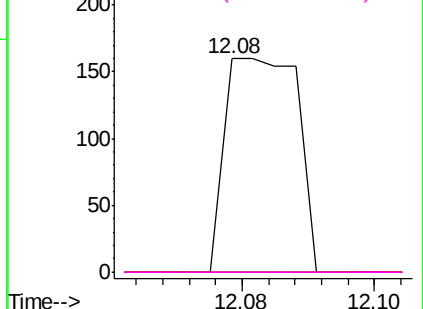


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 32.437 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055945.D

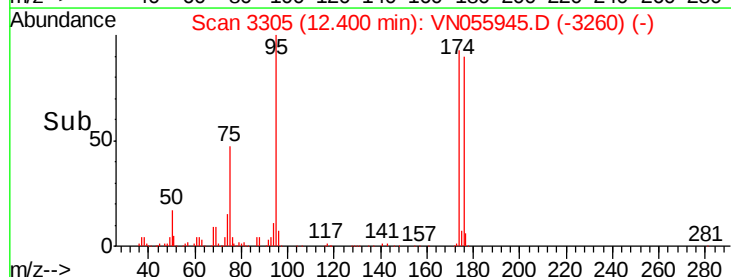
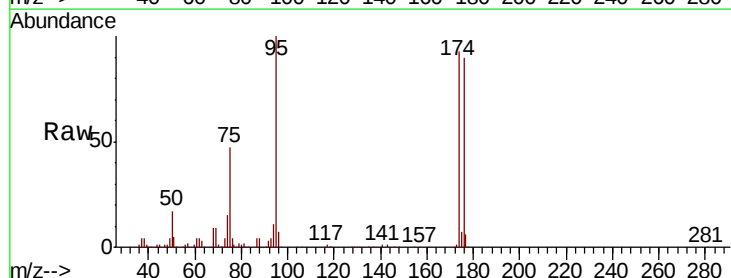
Acq: 1 Jun 2019 3:41

Tgt Ion: 75 Resp: 96310

Ion Ratio Lower Upper

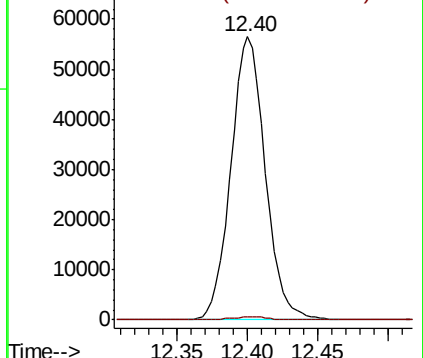
75 100

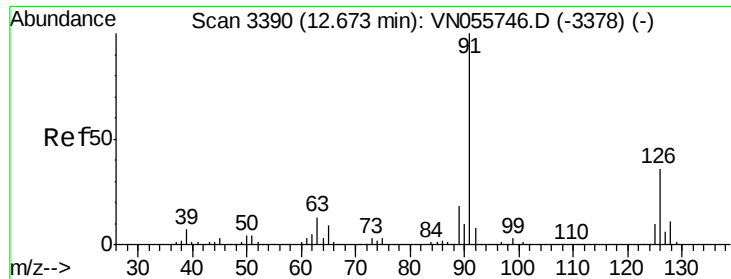
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

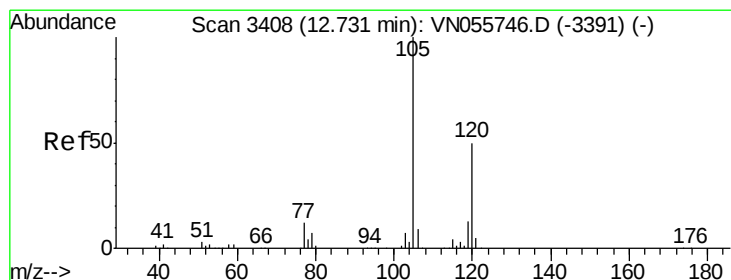
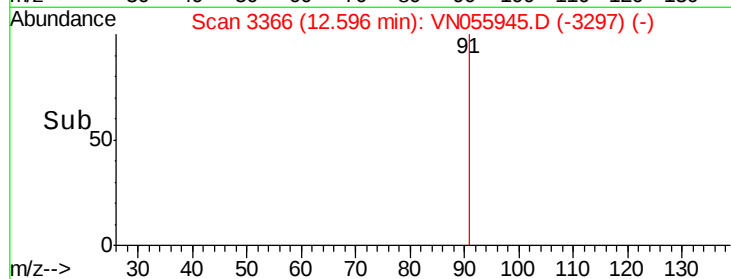
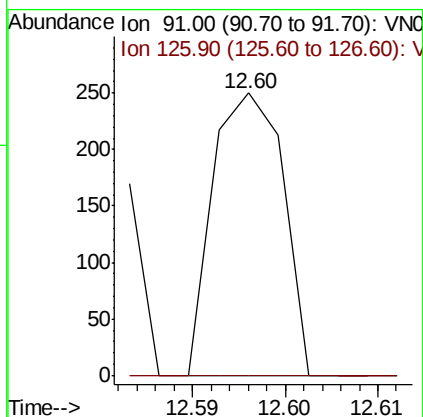
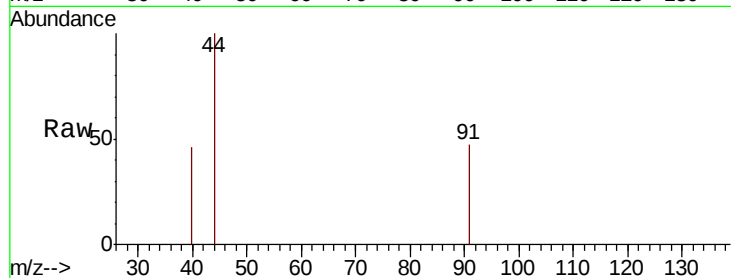




#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.60 min Scan# 3366
 Delta R.T. -0.08 min
 Lab File: VN055945.D
 Acq: 1 Jun 2019 3:41

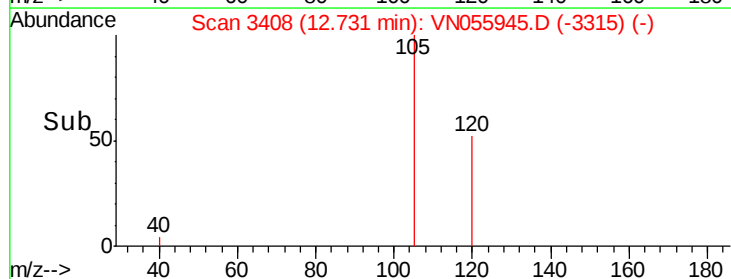
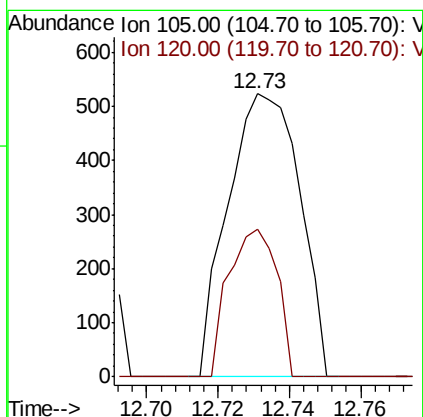
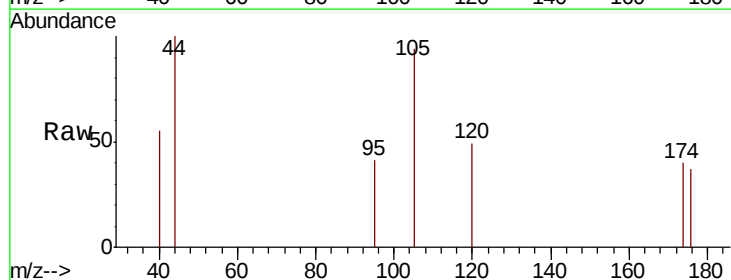
Instrument :
 MSVOA_N
 ClientSampled :
 13892

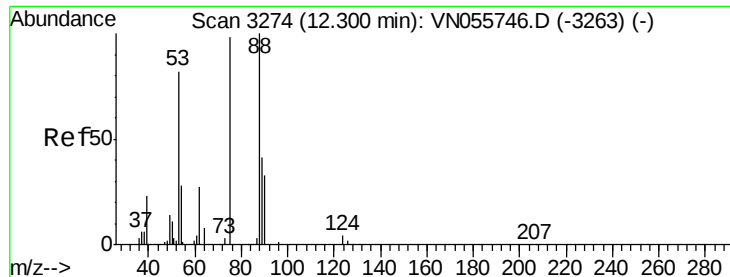
Tot Ion: 91 Resp: 131
 Ion Ratio Lower Upper
 91 100
 126 0.0 18.1 54.4#



#80
 1,3,5-Trimethylbenzene
 Concen: Below Cal
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN055945.D
 Acq: 1 Jun 2019 3:41

Tgt Ion: 105 Resp: 728
 Ion Ratio Lower Upper
 105 100
 120 35.2 24.7 74.1





#81

trans-1,4-Dichloro-2-butene

Concen: 77.712 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055945.D

Acq: 1 Jun 2019 3:41

Instrument :

MSVOA_N

ClientSampleId :

13892

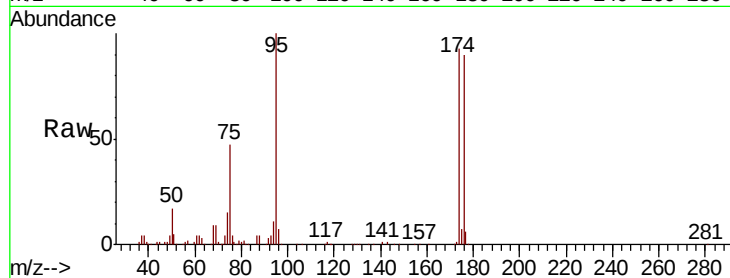
Tot Ion: 75 Resp: 96310

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

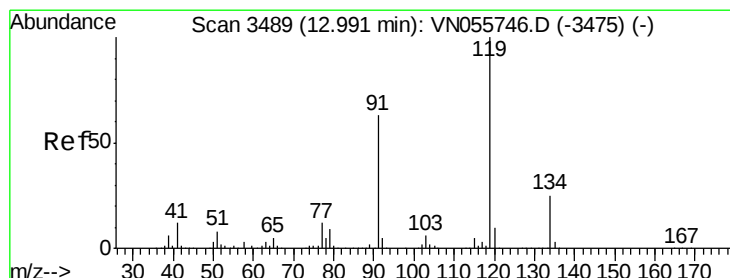
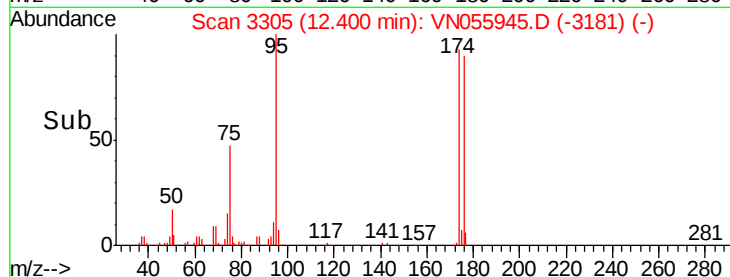
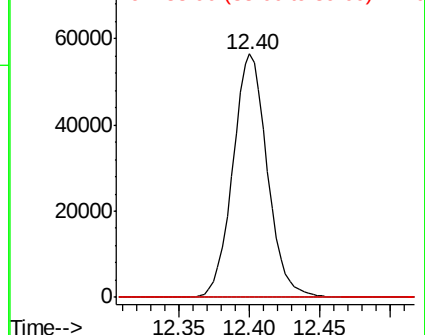
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN055746.D (-3263) (-)

Ion 53.00 (52.70 to 53.70): VN055746.D (-3263) (-)

Ion 88.90 (88.60 to 89.60): VN055746.D (-3263) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 13.04 min Scan# 3505

Delta R.T. 0.05 min

Lab File: VN055945.D

Acq: 1 Jun 2019 3:41

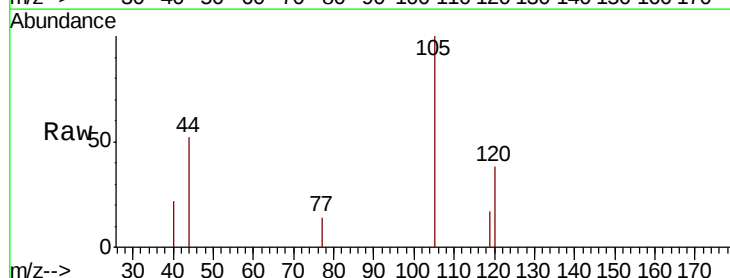
Tgt Ion: 119 Resp: 135

Ion Ratio Lower Upper

119 100

91 0.0 30.9 92.8#

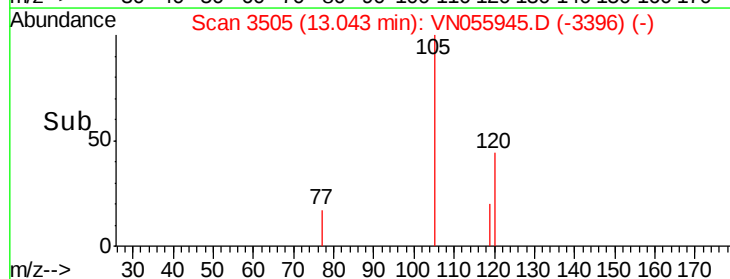
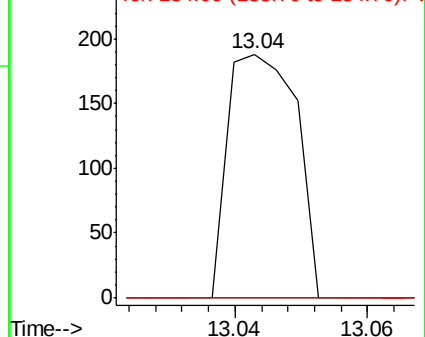
134 0.0 13.3 39.8#

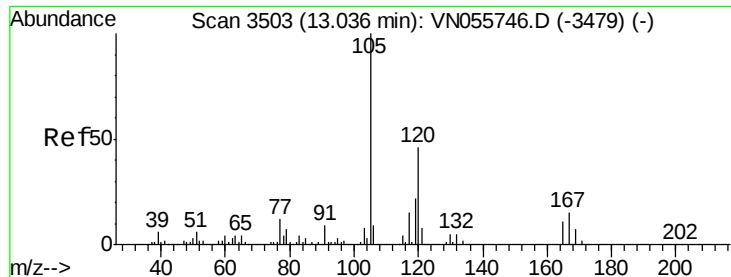


Abundance Ion 119.00 (118.70 to 119.70): VN055746.D (-3475) (-)

Ion 91.00 (90.70 to 91.70): VN055746.D (-3475) (-)

Ion 134.00 (133.70 to 134.70): VN055746.D (-3475) (-)

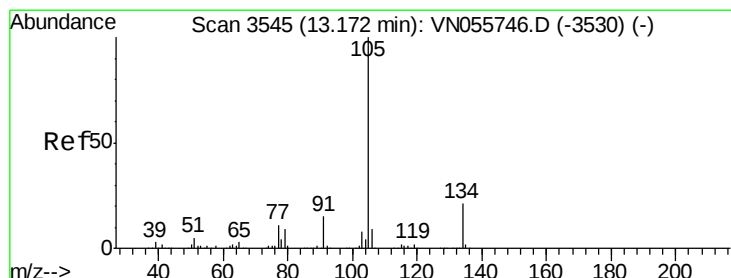
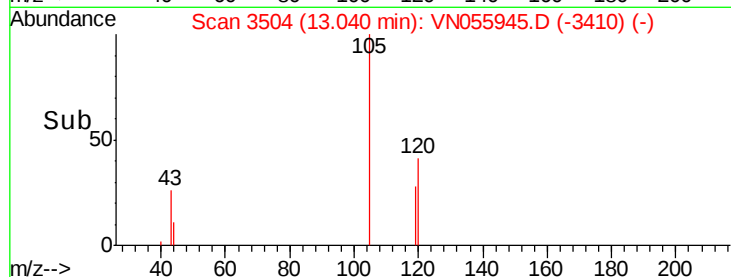
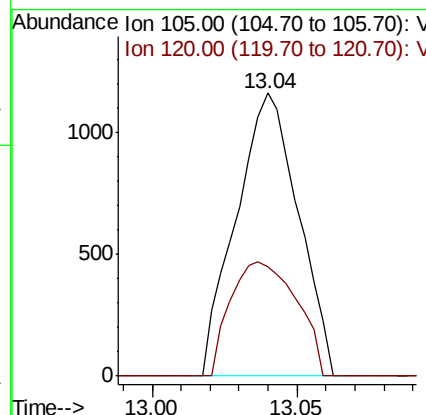
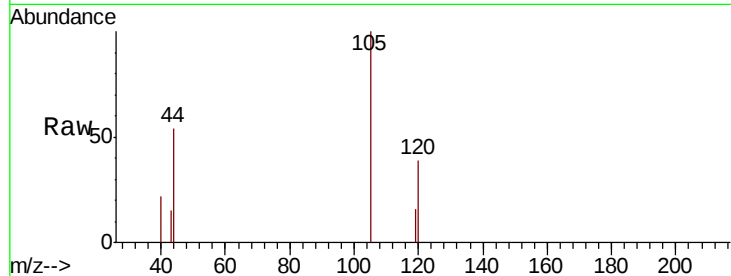




#84
 1,2,4-Trimethylbenzene
 Concen: Below Cal
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN055945.D
 Acq: 1 Jun 2019 3:41

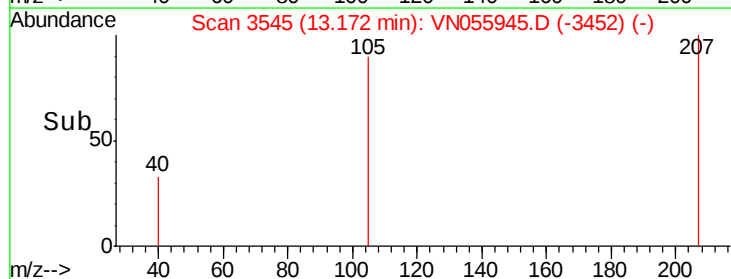
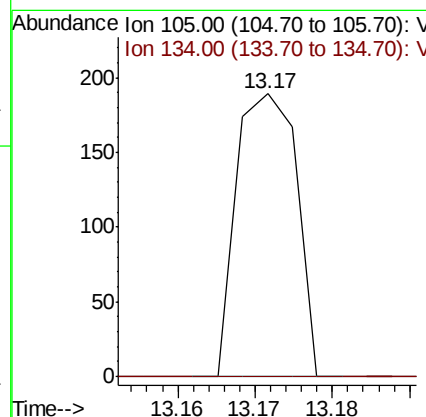
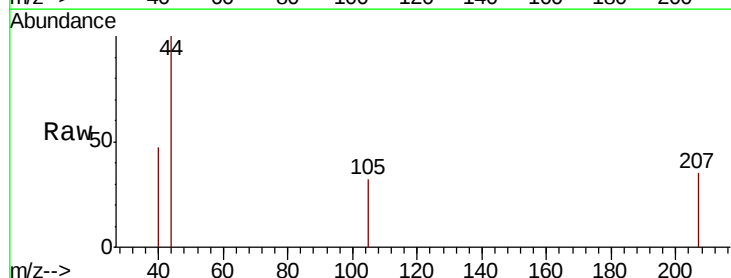
Instrument :
 MSVOA_N
 ClientSampled :
 13892

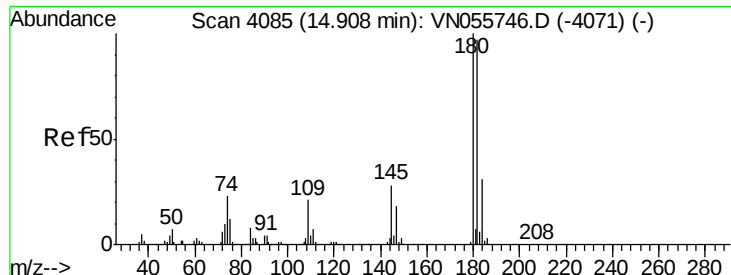
Tot Ion:105 Resp: 1725
 Ion Ratio Lower Upper
 105 100
 120 43.0 23.0 69.0



#85
 sec-Butylbenzene
 Concen: Below Cal
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN055945.D
 Acq: 1 Jun 2019 3:41

Tgt Ion:105 Resp: 102
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.4 31.2#





#93

1,2,4-Trichlorobenzene

Concen: 3.665 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN055945.D

Acq: 1 Jun 2019 3:41

Instrument :

MSVOA_N

ClientSampleId :

13892

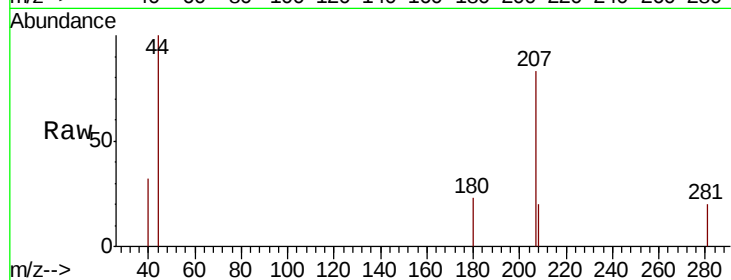
Tot Ion:180 Resp: 98

Ion Ratio Lower Upper

180 100

182 0.0 48.3 144.9#

145 0.0 14.0 41.9#



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

