

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN081319\
 Data File : VN057261.D
 Acq On : 13 Aug 2019 21:26
 Operator : JC/SP
 Sample : I.BLK
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

Quant Time: Aug 14 06:33:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081319W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 14 06:25:03 2019
 Response via : Initial Calibration

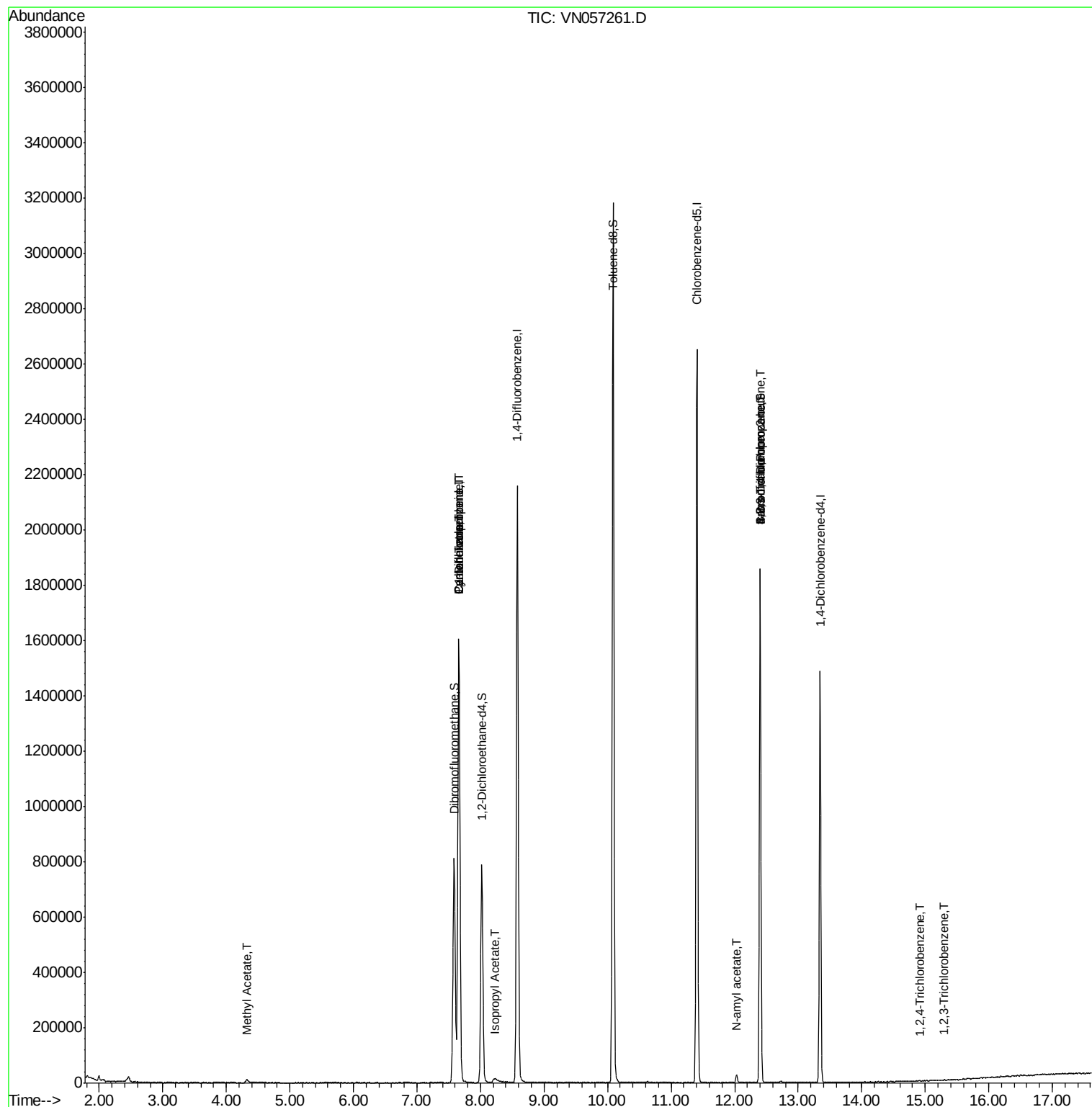
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1463594	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	2051579	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1703319	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	436076	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.02	65	684840	46.38	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.76%	
35) Dibromofluoromethane	7.59	113	622930	47.55	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.10%	
50) Toluene-d8	10.09	98	2355271	49.29	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.58%	
62) 4-Bromofluorobenzene	12.40	95	632420	38.60	ug/l	0.00
Spiked Amount 50.000			Recovery	=	77.20%	
Target Compounds						
					Qvalue	
18) Methyl Acetate	4.32	43	22076	0.540	ug/l #	86
31) Cyclohexane	7.66	56	21350	1.021	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	86766	4.837	ug/l #	48
38) Carbon Tetrachloride	7.66	117	124535	6.536	ug/l #	15
43) Isopropyl Acetate	8.23	43	23230	0.978	ug/l #	52
71) Bromoform	12.40	173	3612	0.350	ug/l #	1
73) Isopropylbenzene	12.25	105	488	Below Cal	#	59
74) N-amyl acetate	12.03	43	19574	0.877	ug/l #	45
75) 1,1,2,2-Tetrachloroethane	12.41	83	375	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	289712	37.043	ug/l #	100
77) Bromobenzene	12.53	156	67	Below Cal	#	1
78) n-propylbenzene	12.59	91	1031	Below Cal	#	51
79) 2-Chlorotoluene	12.67	91	642	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.74	105	93	Below Cal	#	1
81) trans-1,4-Dichloro-2-buten	12.40	75	289712	89.236	ug/l #	16
83) tert-Butylbenzene	12.99	119	230	Below Cal	#	42
85) sec-Butylbenzene	13.17	105	554	Below Cal	#	65
93) 1,2,4-Trichlorobenzene	14.92	180	420	3.314	ug/l	77
94) Hexachlorobutadiene	15.01	225	161	Below Cal	#	31
96) 1,2,3-Trichlorobenzene	15.30	180	566	4.337	ug/l #	17

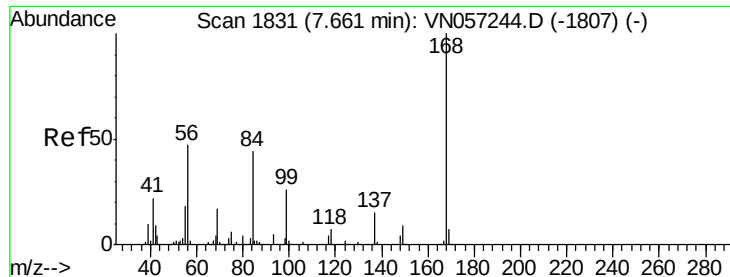
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN057261.D

Acq: 13 Aug 2019 21:26

Instrument :

MSVOA_N

ClientSampled :

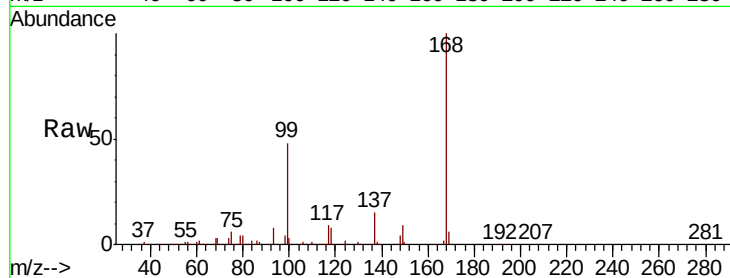
I.BLK

Tgt Ion:168 Resp: 1463594

Ion Ratio Lower Upper

168 100

99 48.4 38.6 58.0



Abundance Ion 167.90 (167.60 to 168.60): VN057244.D (-1807) (-)

Ion 98.90 (98.60 to 99.60): VN057244.D (-1807) (-)

7.66

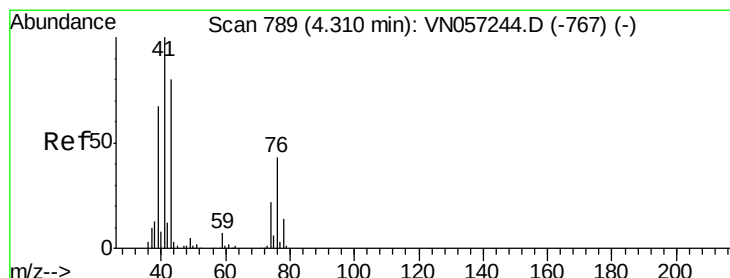
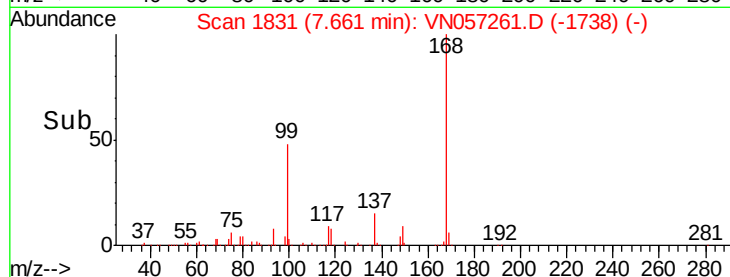
600000

400000

200000

0

Time-->



#18

Methyl Acetate

Concen: 0.540 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.01 min

Lab File: VN057261.D

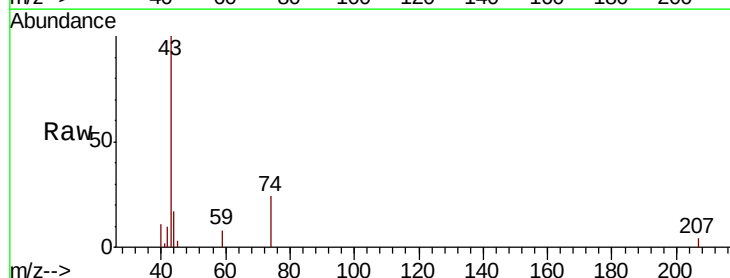
Acq: 13 Aug 2019 21:26

Tgt Ion: 43 Resp: 22076

Ion Ratio Lower Upper

43 100

74 18.5 20.6 31.0#



Abundance Ion 43.00 (42.70 to 43.70): VN057244.D (-767) (-)

Ion 74.00 (73.70 to 74.70): VN057244.D (-767) (-)

4.32

8000

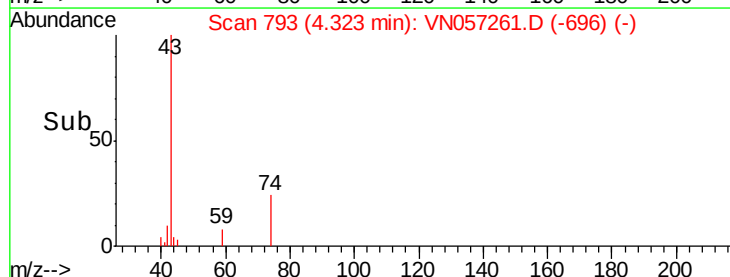
6000

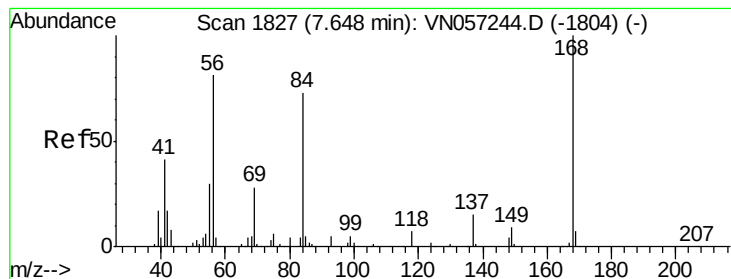
4000

2000

0

Time-->





#31

Cyclohexane

Concen: 1.021 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN057261.D

Acq: 13 Aug 2019 21:26

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

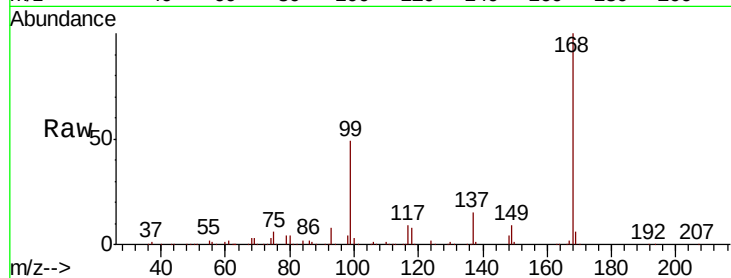
Tgt Ion: 56 Resp: 21350

Ion Ratio Lower Upper

56 100

69 218.0 27.8 41.8#

84 170.2 72.0 108.0#

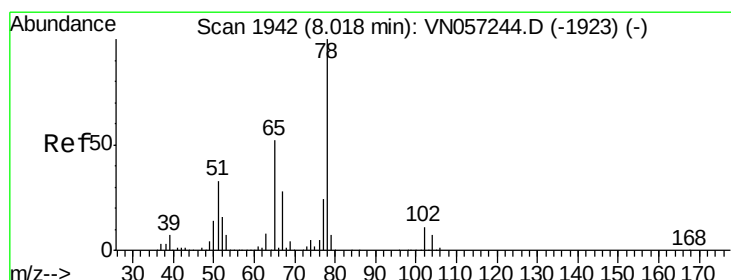
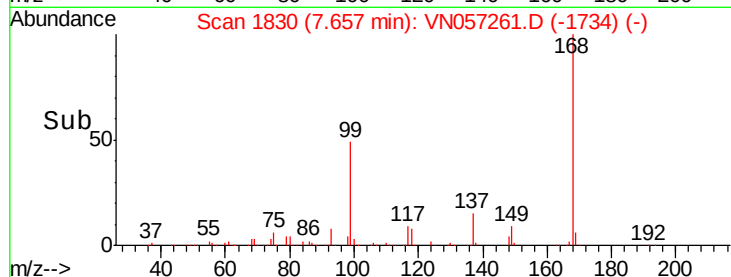
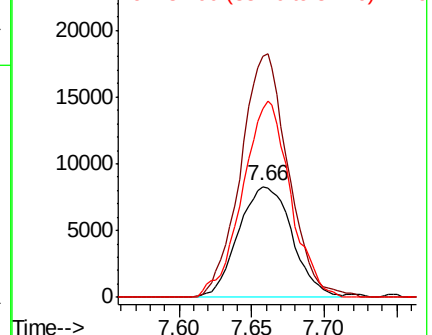


Abundance

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: 46.385 ug/l

RT: 8.02 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN057261.D

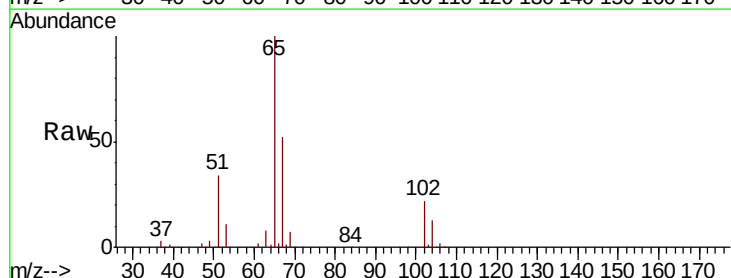
Acq: 13 Aug 2019 21:26

Tgt Ion: 65 Resp: 684840

Ion Ratio Lower Upper

65 100

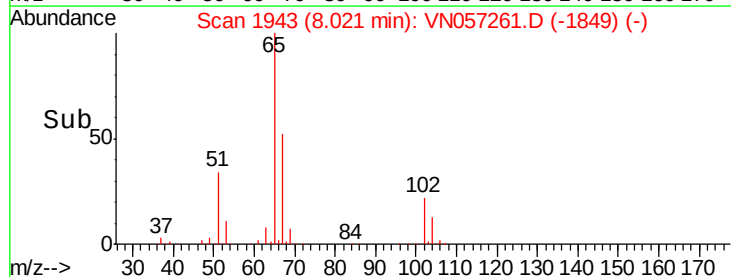
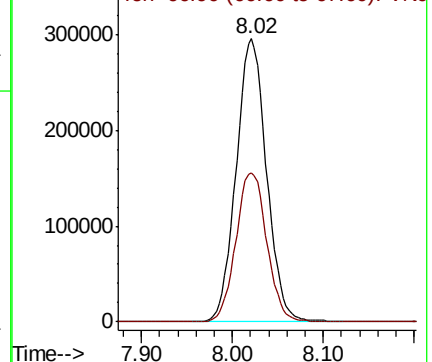
67 53.7 0.0 107.0

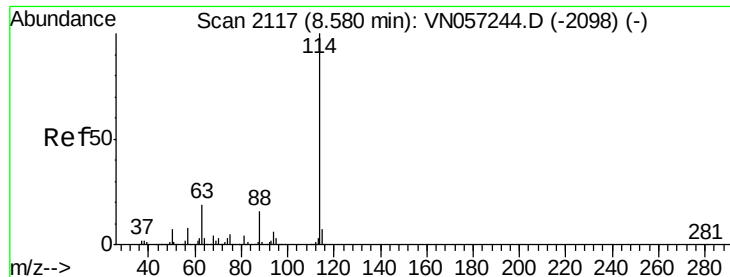


Abundance

Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

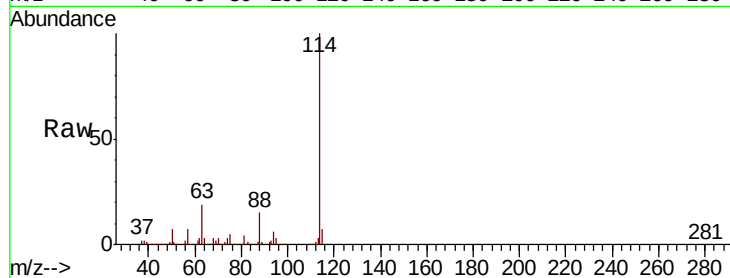




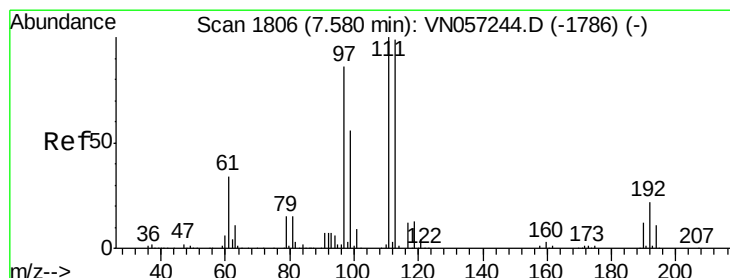
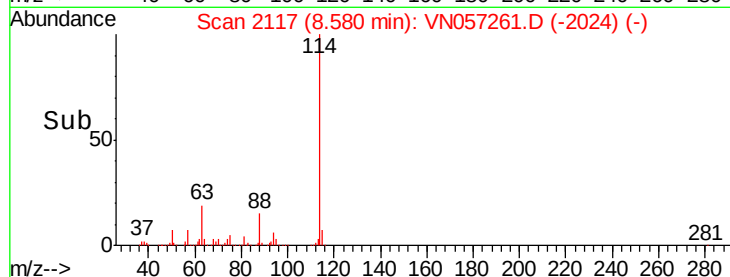
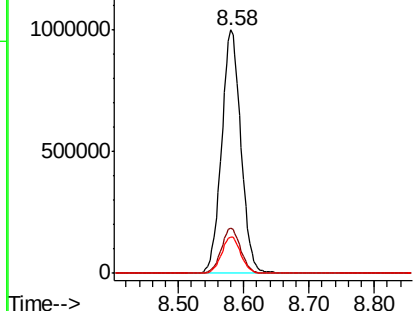
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2117
 Delta R.T. 0.00 min
 Lab File: VN057261.D
 Acq: 13 Aug 2019 21:26

Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

Tgt Ion:114 Resp: 2051579
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 37.0
 88 15.1 0.0 31.0

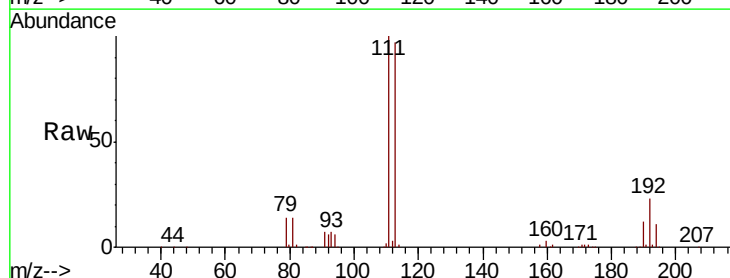


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

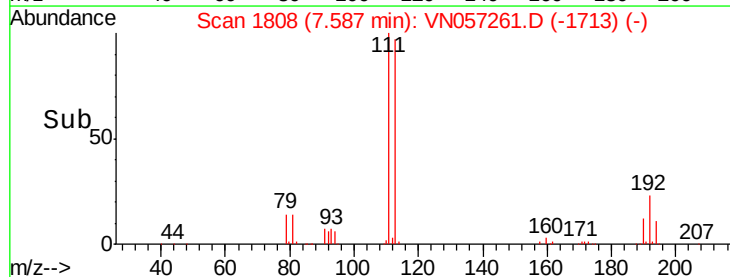
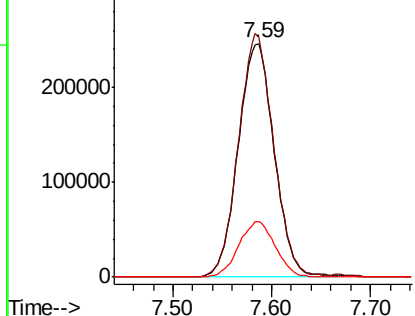


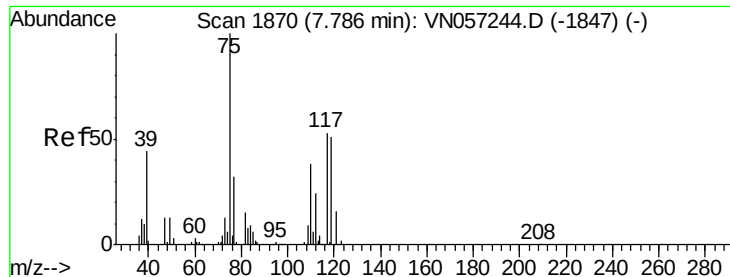
#35
 Dibromofluoromethane
 Concen: 47.553 ug/l
 RT: 7.59 min Scan# 1808
 Delta R.T. 0.01 min
 Lab File: VN057261.D
 Acq: 13 Aug 2019 21:26

Tgt Ion:113 Resp: 622930
 Ion Ratio Lower Upper
 113 100
 111 101.6 81.4 122.2
 192 24.0 18.8 28.2



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: 4.837 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN057261.D

Acq: 13 Aug 2019 21:26

Instrument :

MSVOA_N

ClientSampled :

I.BLK

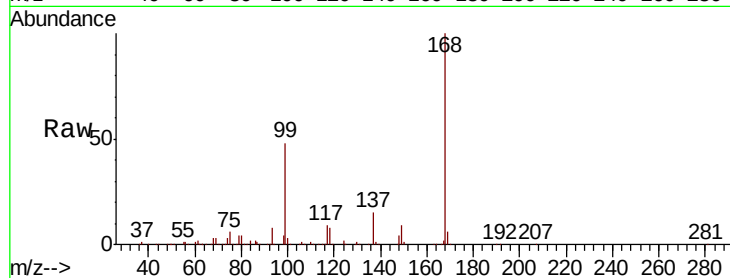
Tgt Ion: 75 Resp: 86766

Ion Ratio Lower Upper

75 100

110 9.6 19.1 57.1#

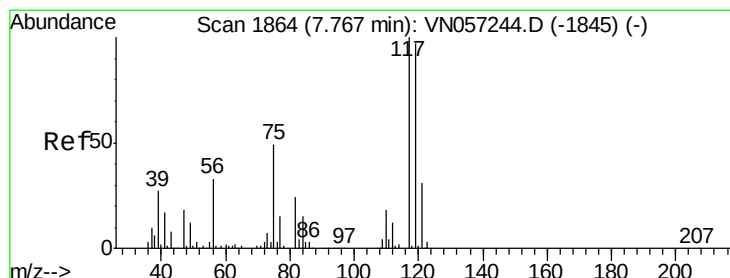
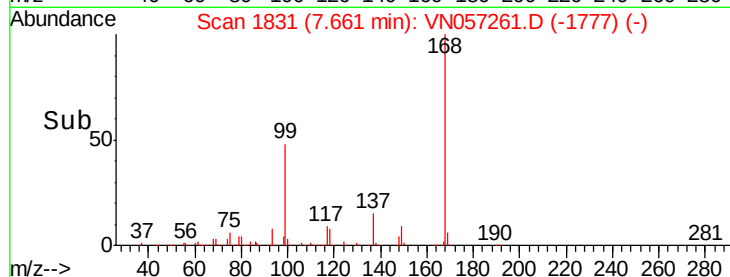
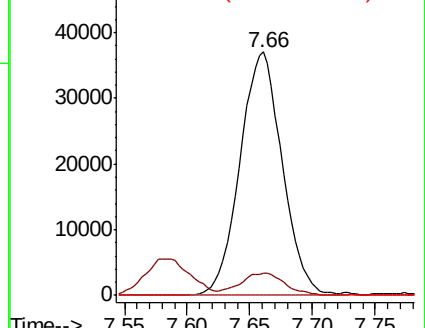
77 0.0 25.2 37.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0



#38

Carbon Tetrachloride

Concen: 6.536 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN057261.D

Acq: 13 Aug 2019 21:26

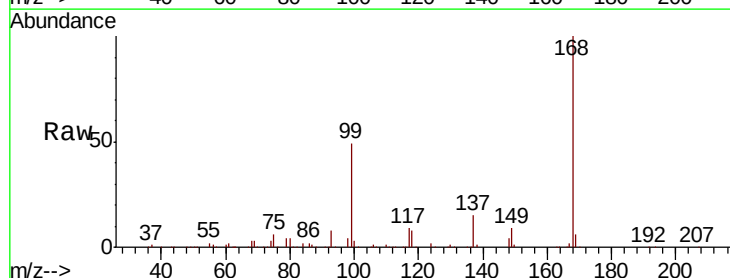
Tgt Ion: 117 Resp: 124535

Ion Ratio Lower Upper

117 100

119 4.7 77.8 116.6#

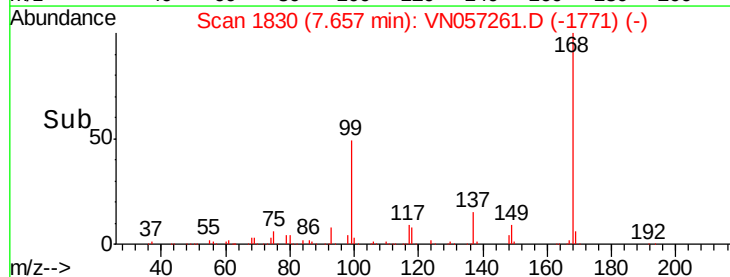
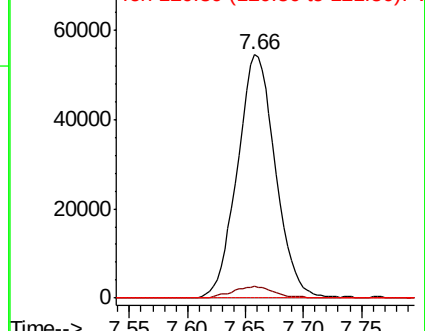
121 0.0 24.9 37.3#

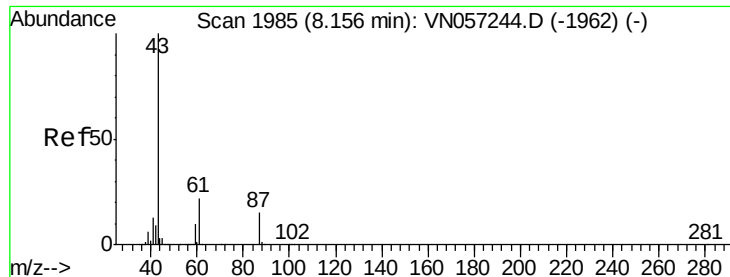


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 0.978 ug/l

RT: 8.23 min Scan# 2007

Delta R.T. 0.07 min

Lab File: VN057261.D

Acq: 13 Aug 2019 21:26

Instrument :

MSVOA_N

ClientSampled :

I.BLK

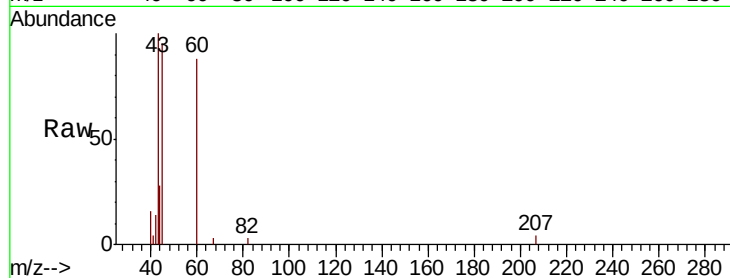
Tgt Ion: 43 Resp: 23230

Ion Ratio Lower Upper

43 100

61 0.0 23.5 35.3#

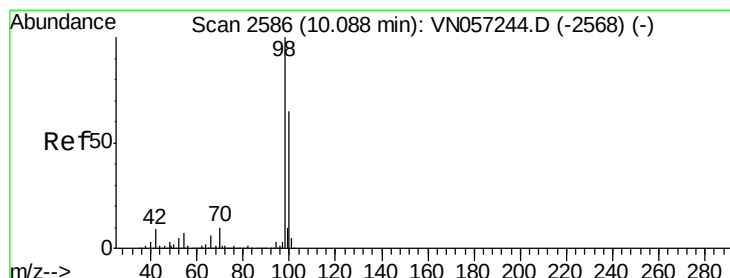
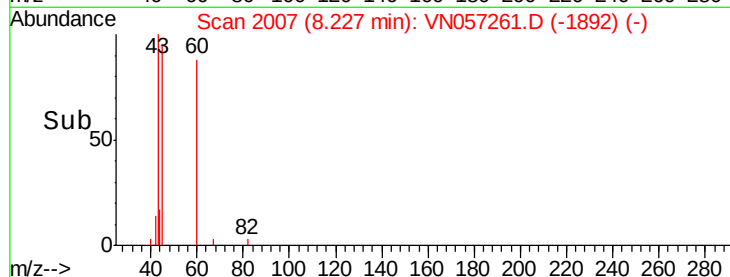
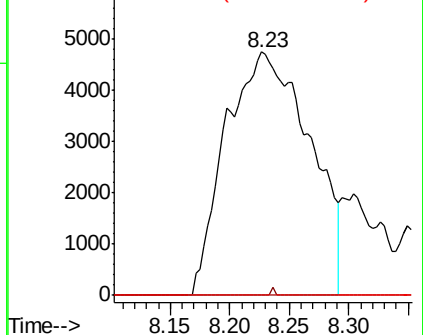
87 0.0 12.1 18.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 49.294 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057261.D

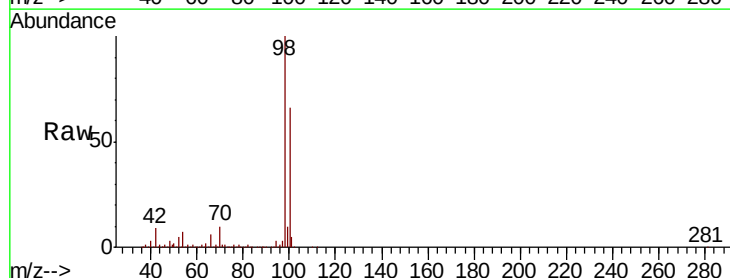
Acq: 13 Aug 2019 21:26

Tgt Ion: 98 Resp: 2355271

Ion Ratio Lower Upper

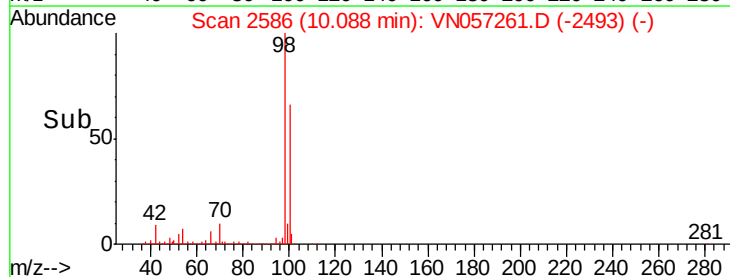
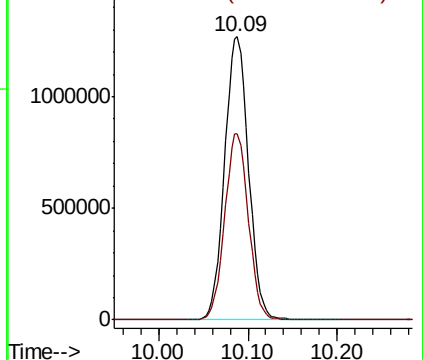
98 100

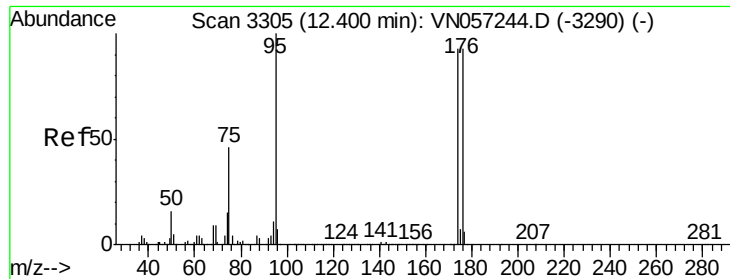
100 65.1 51.8 77.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

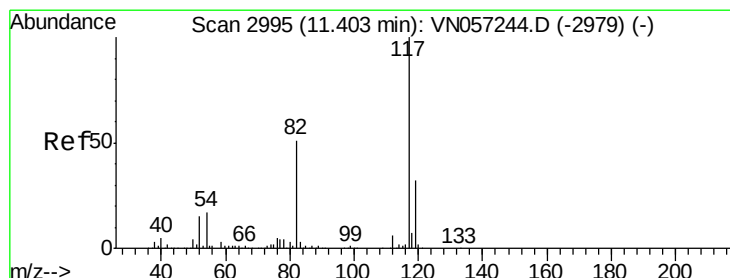
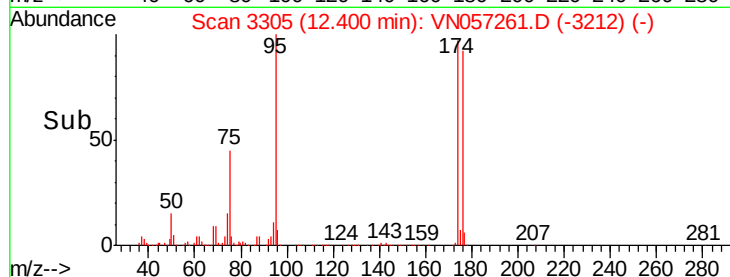
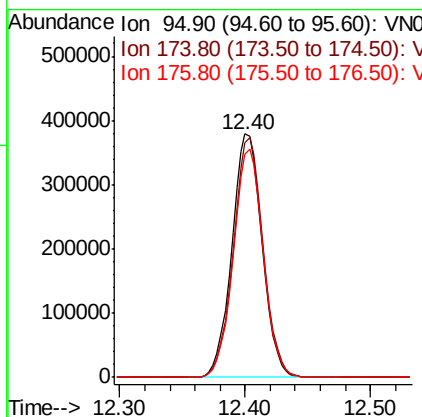
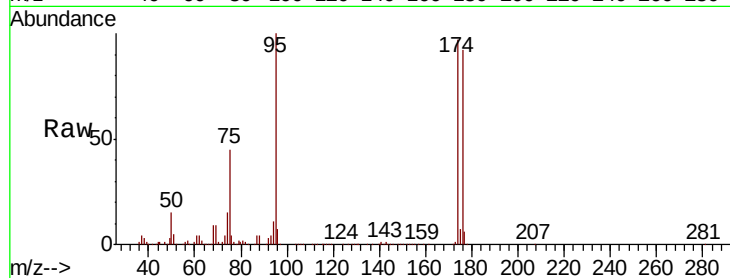




#62
4-Bromofluorobenzene
Concen: 38.596 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN057261.D
Acq: 13 Aug 2019 21:26

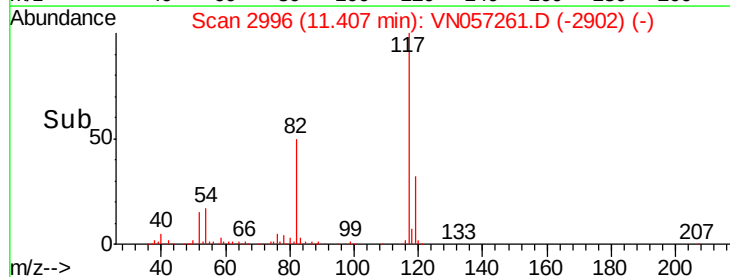
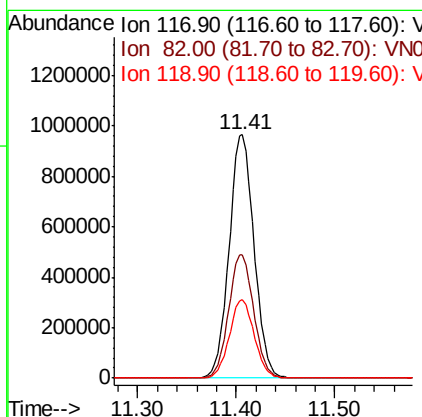
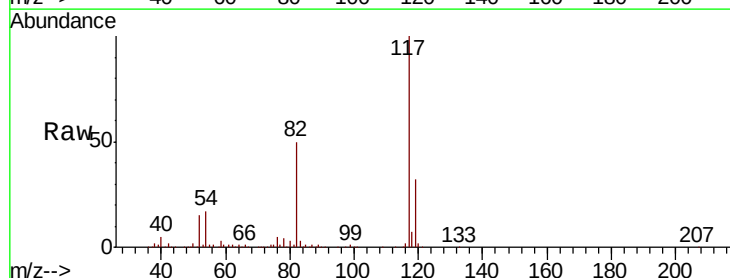
Instrument :
MSVOA_N
ClientSampled :
I.BLK

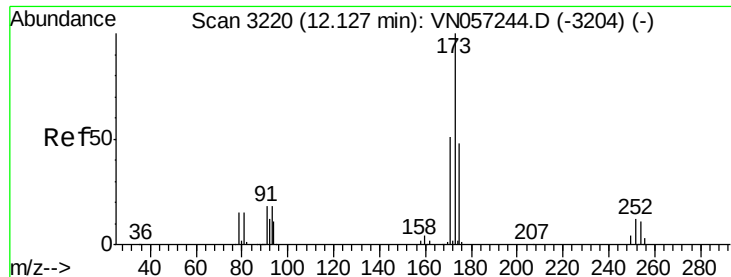
Tgt Ion: 95 Resp: 632420
Ion Ratio Lower Upper
95 100
174 97.2 0.0 187.6
176 92.7 0.0 185.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057261.D
Acq: 13 Aug 2019 21:26

Tgt Ion: 117 Resp: 1703319
Ion Ratio Lower Upper
117 100
82 50.5 40.9 61.3
119 32.3 25.4 38.2





#71

Bromoform

Concen: 0.350 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN057261.D

Acq: 13 Aug 2019 21:26

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

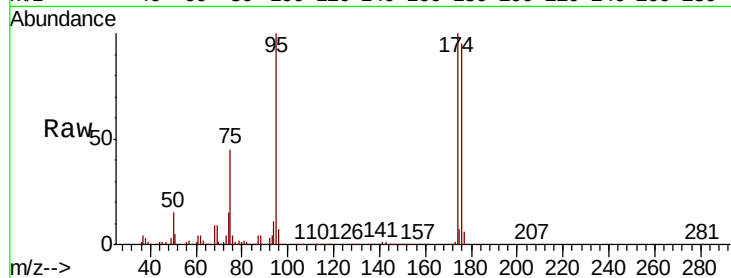
Tgt Ion:173 Resp: 3612

Ion Ratio Lower Upper

173 100

175 1071.8 24.4 73.2#

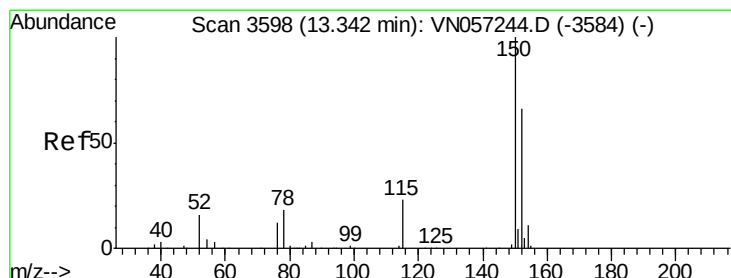
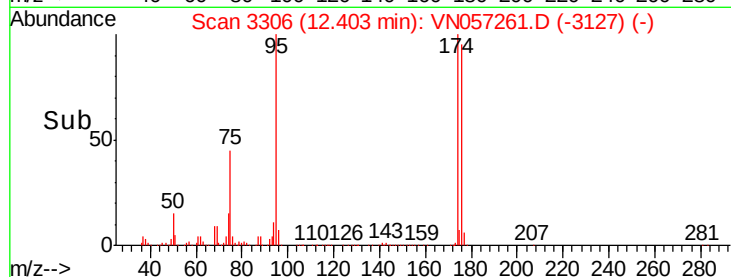
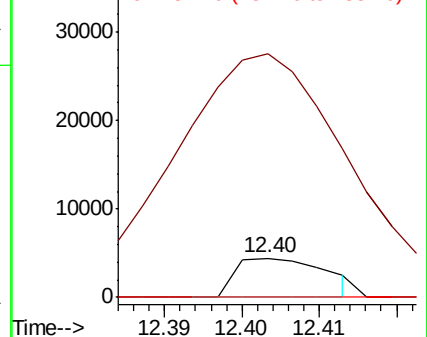
254 0.0 0.2 0.2#



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN057261.D

Acq: 13 Aug 2019 21:26

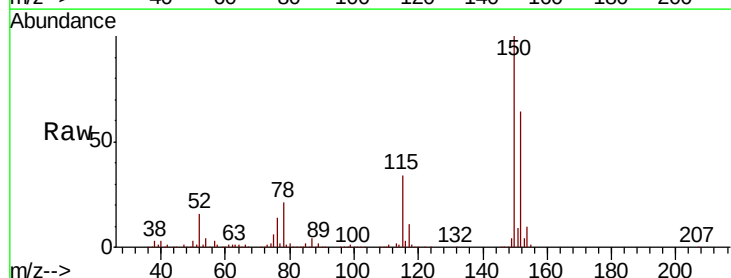
Tgt Ion:152 Resp: 436076

Ion Ratio Lower Upper

152 100

115 54.9 27.6 82.8

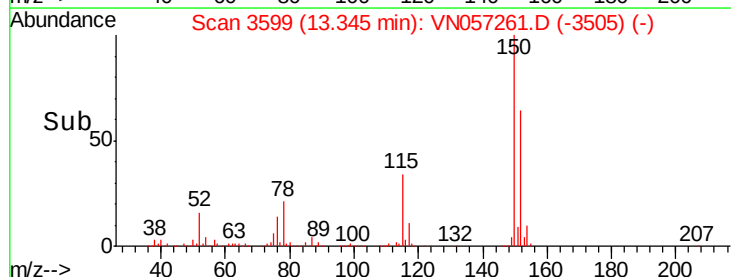
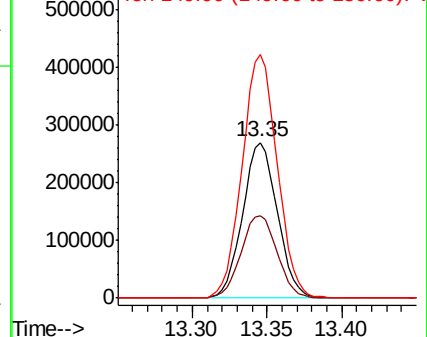
150 158.0 0.0 348.4

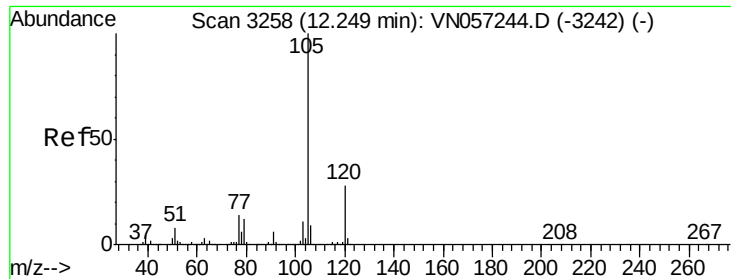


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN057261.D

Acq: 13 Aug 2019 21:26

Instrument :

MSVOA_N

ClientSampleId :

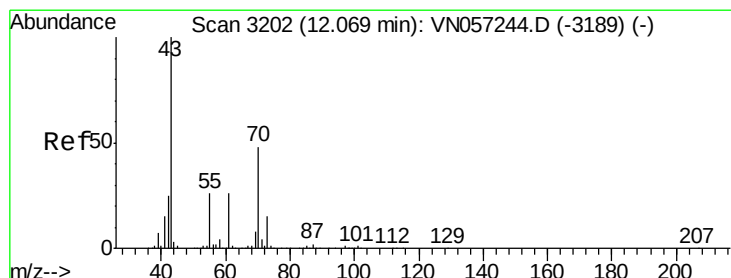
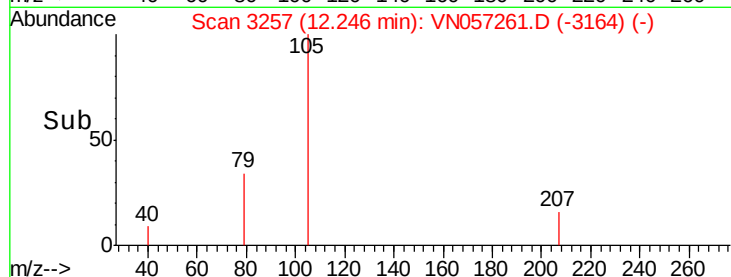
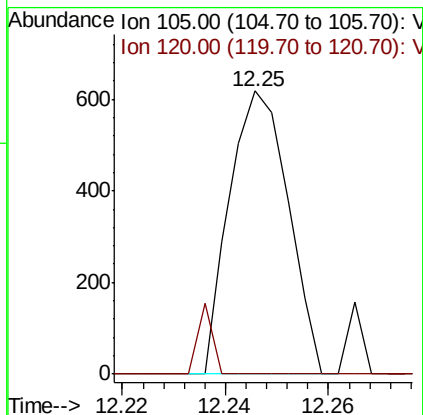
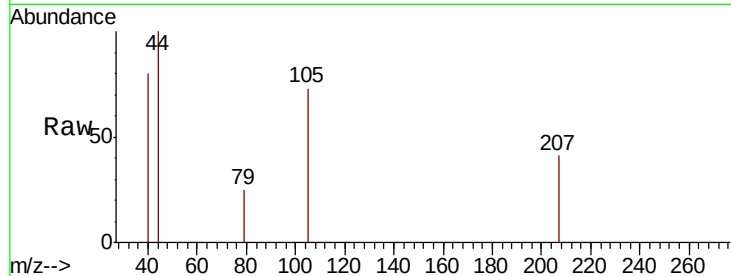
I.BLK

Tgt Ion: 105 Resp: 488

Ion Ratio Lower Upper

105 100

120 6.1 13.8 41.3#



#74

N-ethyl acetate

Concen: 0.877 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN057261.D

Acq: 13 Aug 2019 21:26

Tgt Ion: 43 Resp: 19574

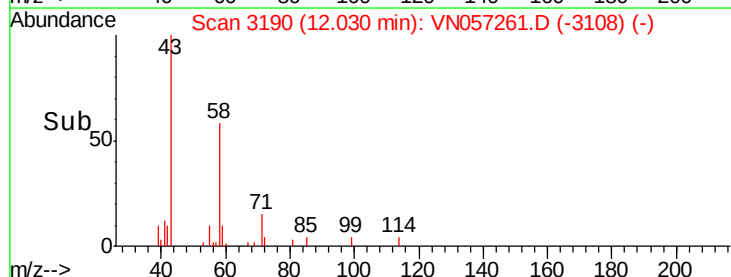
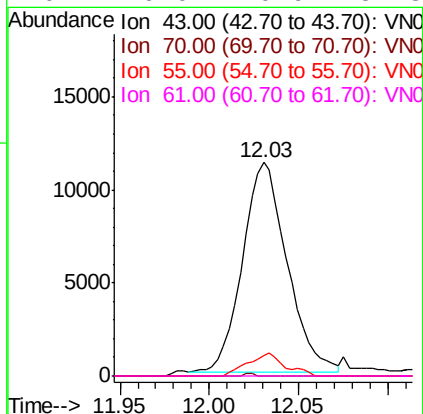
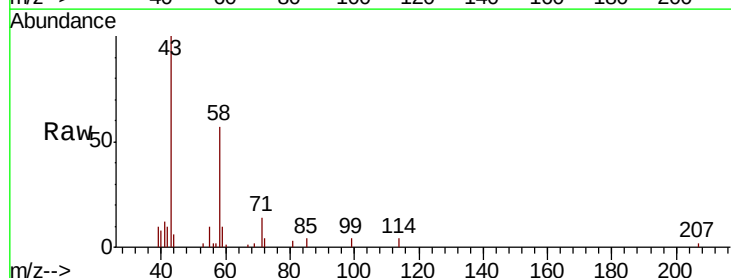
Ion Ratio Lower Upper

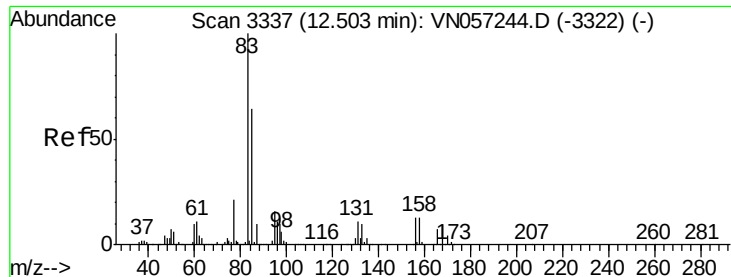
43 100

70 0.3 37.4 56.2#

55 9.0 21.0 31.4#

61 0.0 20.9 31.3#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3307

Delta R.T. -0.10 min

Lab File: VN057261.D

Acq: 13 Aug 2019 21:26

Instrument :

MSVOA_N

ClientSampled :

I.BLK

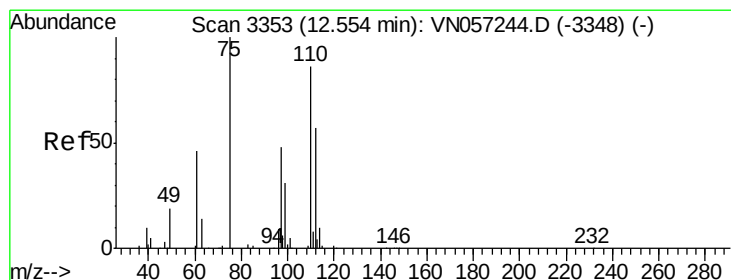
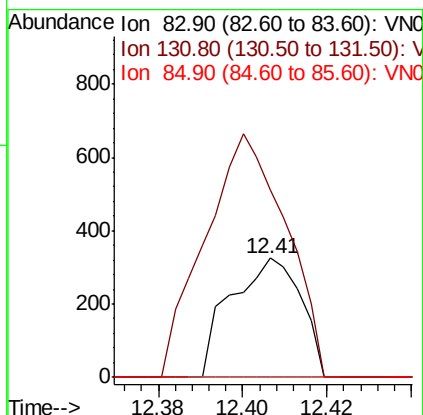
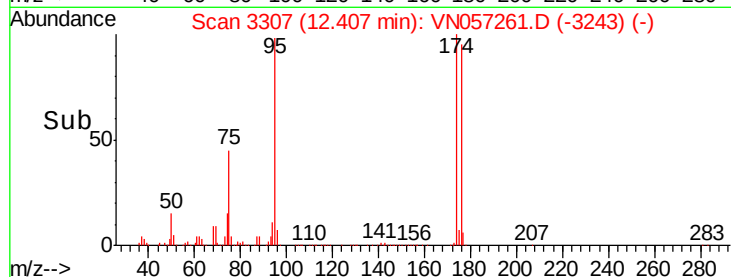
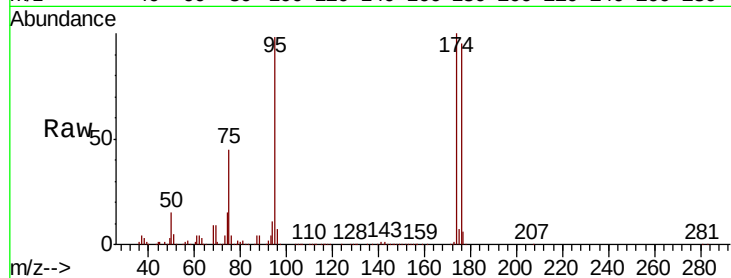
Tgt Ion: 83 Resp: 375

Ion Ratio Lower Upper

83 100

131 236.0 5.6 16.8#

85 0.0 32.3 96.8#



#76

1,2,3-Trichloropropane

Concen: 37.043 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN057261.D

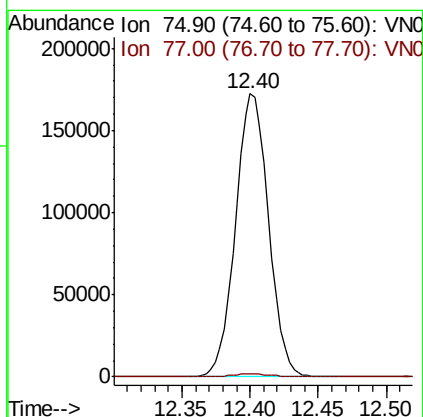
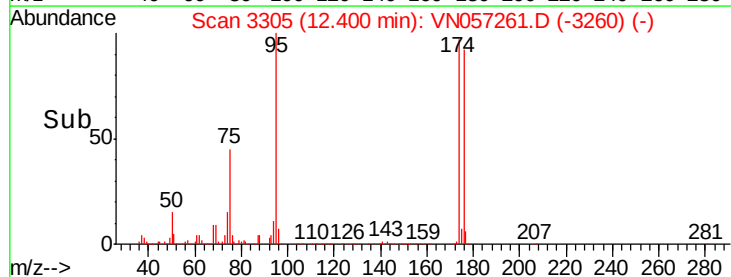
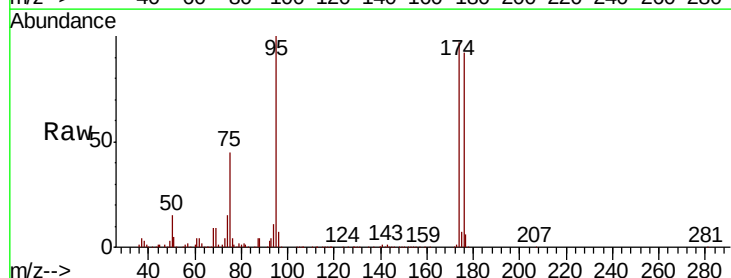
Acq: 13 Aug 2019 21:26

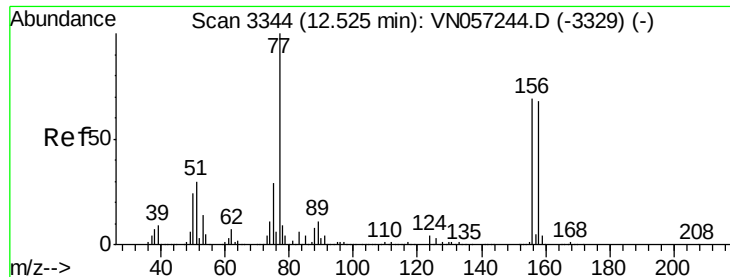
Tgt Ion: 75 Resp: 289712

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#





#77

Bromobenzene

Concen: Below Cal

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN057261.D

Acq: 13 Aug 2019 21:26

Instrument :

MSVOA_N

ClientSampleId :

I.BLK

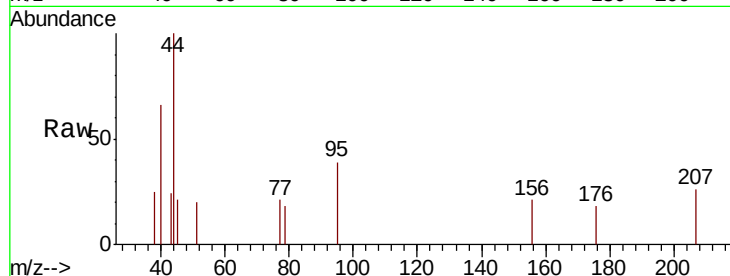
Tgt Ion: 156 Resp: 67

Ion Ratio Lower Upper

156 100

77 385.1 88.0 264.1#

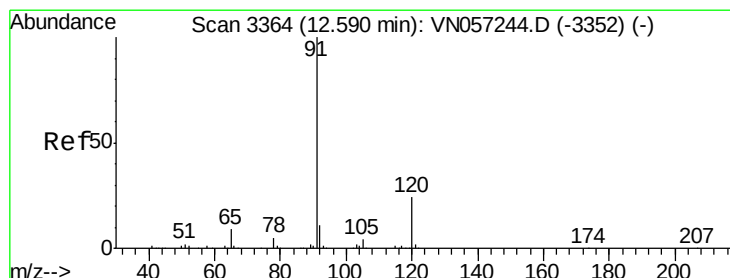
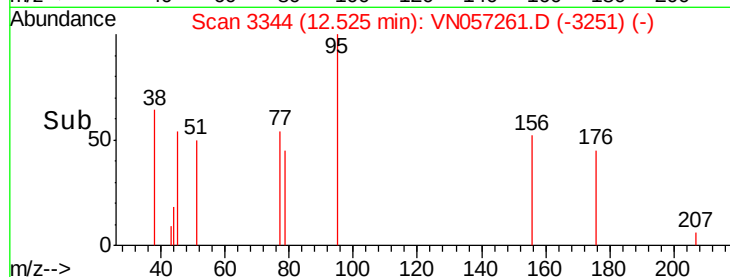
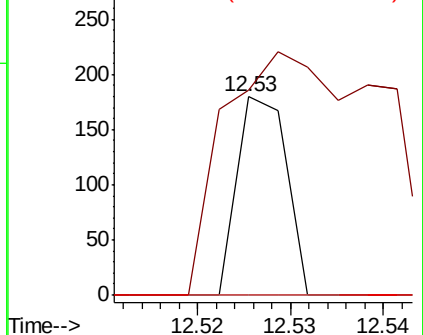
158 0.0 49.4 148.0#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: Below Cal

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN057261.D

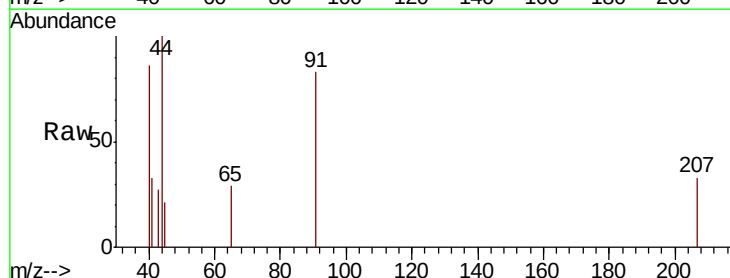
Acq: 13 Aug 2019 21:26

Tgt Ion: 91 Resp: 1031

Ion Ratio Lower Upper

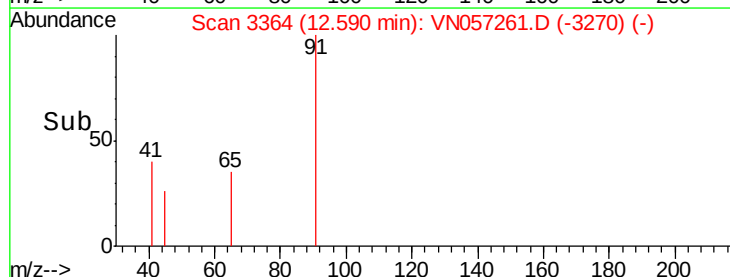
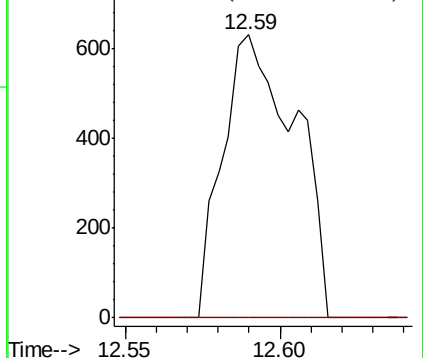
91 100

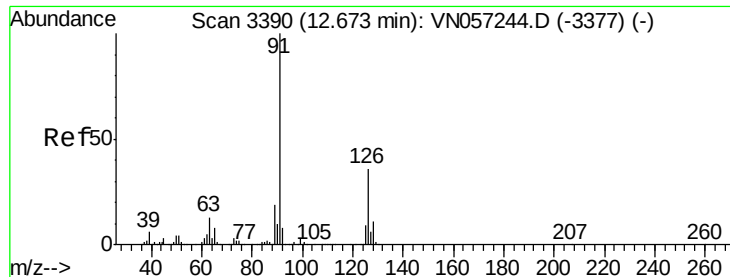
120 0.0 12.1 36.3#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

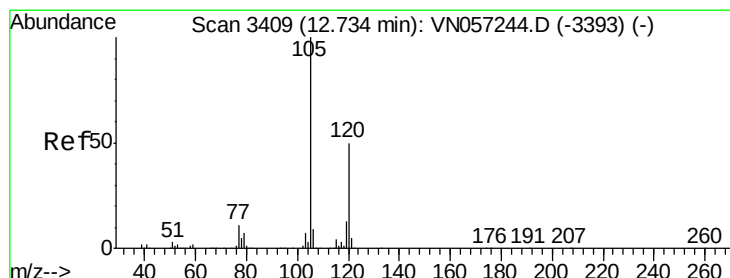
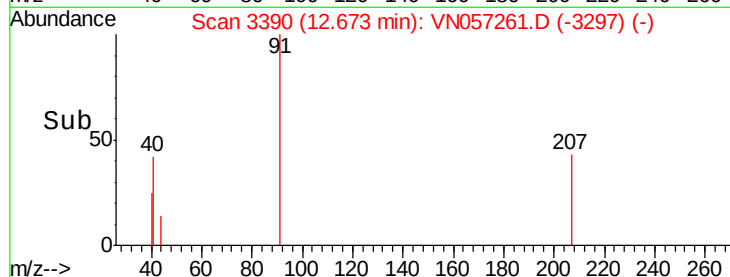
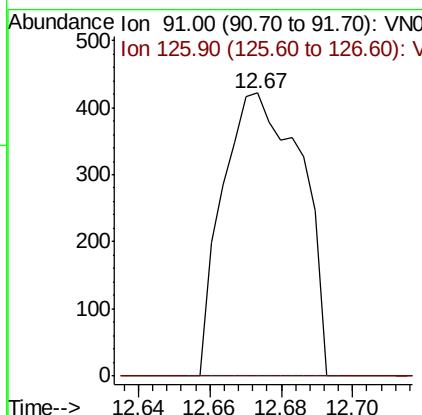
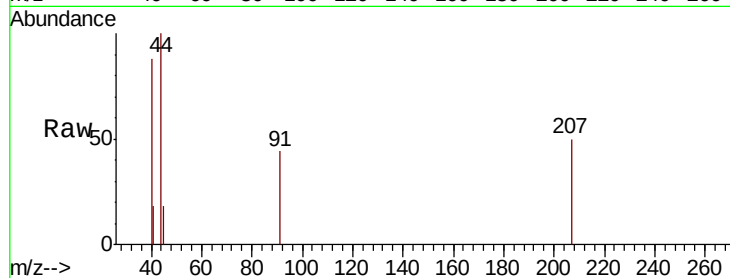




#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.67 min Scan# 3390
 Delta R.T. 0.00 min
 Lab File: VN057261.D
 Acq: 13 Aug 2019 21:26

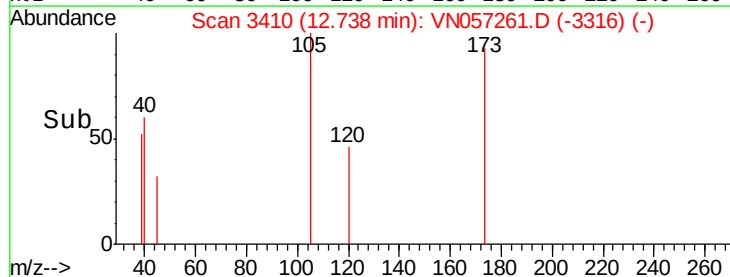
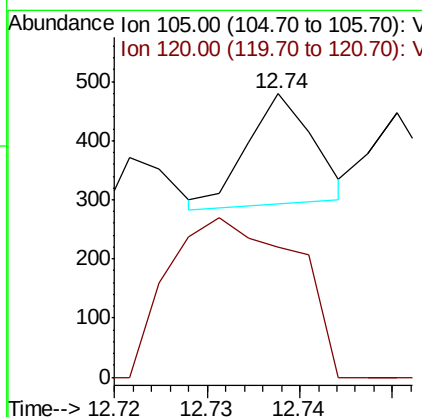
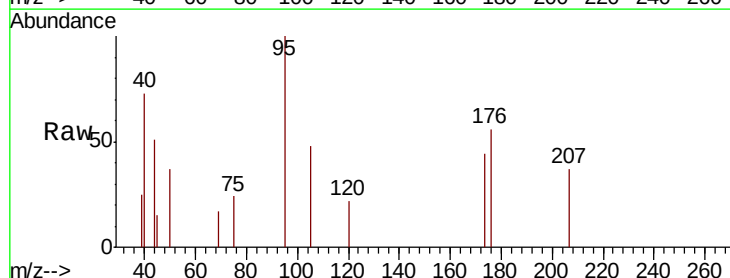
Instrument :
 MSVOA_N
 ClientSampleId :
 I.BLK

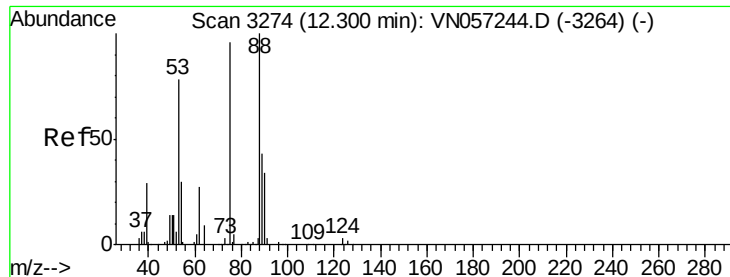
Tgt Ion: 91 Resp: 642
 Ion Ratio Lower Upper
 91 100
 126 0.0 18.0 54.0#



#80
 1,3,5-Trimethylbenzene
 Concen: Below Cal
 RT: 12.74 min Scan# 3410
 Delta R.T. 0.00 min
 Lab File: VN057261.D
 Acq: 13 Aug 2019 21:26

Tgt Ion: 105 Resp: 93
 Ion Ratio Lower Upper
 105 100
 120 275.3 25.3 75.8#





#81

trans-1,4-Dichloro-2-butene

Concen: 89.236 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN057261.D

Acq: 13 Aug 2019 21:26

Instrument :

MSVOA_N

ClientSampled :

I.BLK

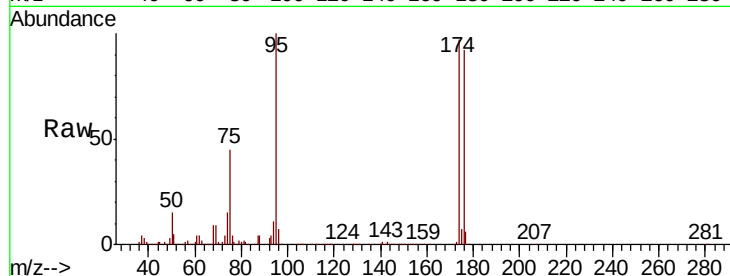
Tgt Ion: 75 Resp: 289712

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.6#

89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

12.40

200000

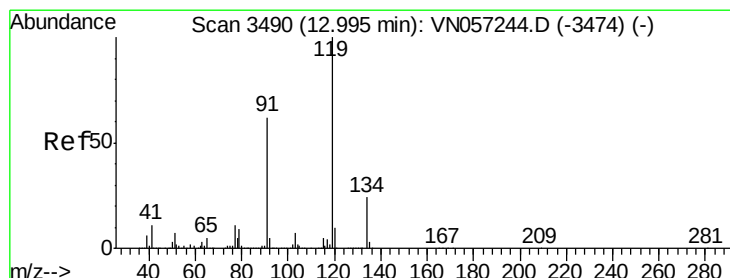
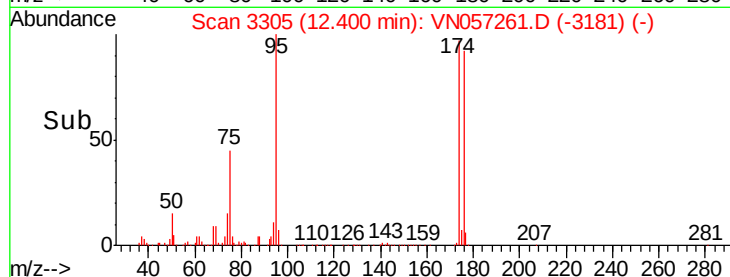
150000

100000

50000

0

Time-->



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN057261.D

Acq: 13 Aug 2019 21:26

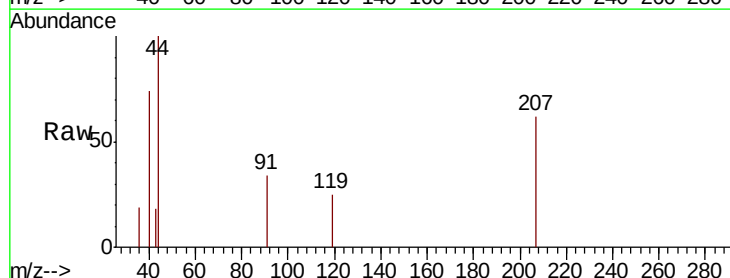
Tgt Ion: 119 Resp: 230

Ion Ratio Lower Upper

119 100

91 107.8 30.8 92.3#

134 0.0 12.9 38.7#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN0

Ion 134.00 (133.70 to 134.70): V

400

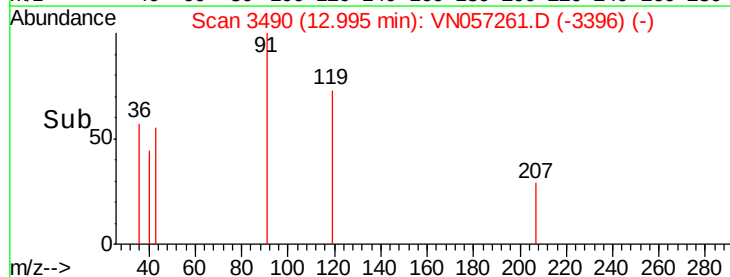
300

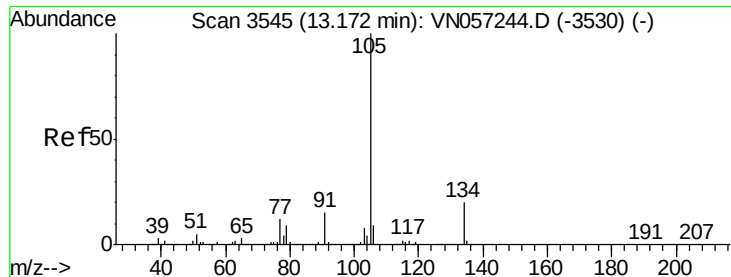
200

100

0

Time-->





#85

sec-Butylbenzene

Concen: Below Cal

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN057261.D

Acq: 13 Aug 2019 21:26

Instrument :

MSVOA_N

ClientSampled :

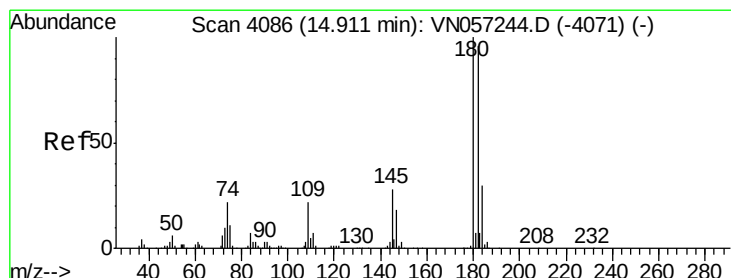
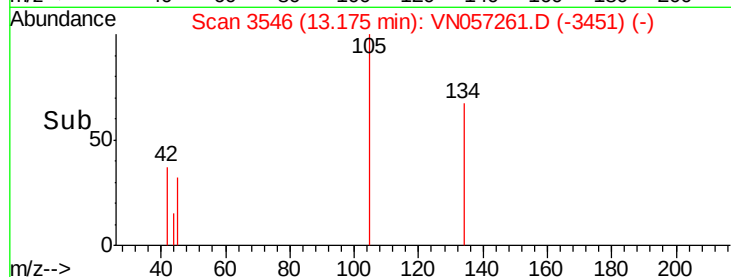
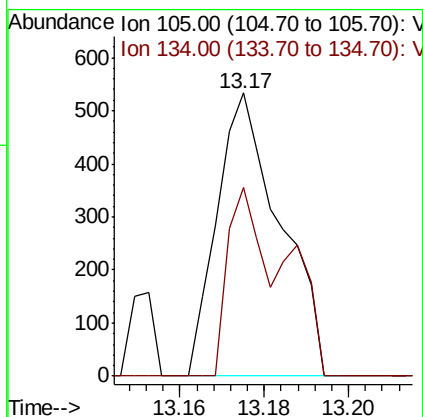
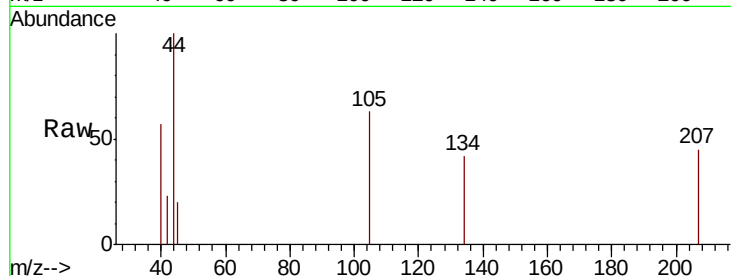
I.BLK

Tgt Ion:105 Resp: 554

Ion Ratio Lower Upper

105 100

134 37.0 10.4 31.2#



#93

1,2,4-Trichlorobenzene

Concen: 3.314 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.01 min

Lab File: VN057261.D

Acq: 13 Aug 2019 21:26

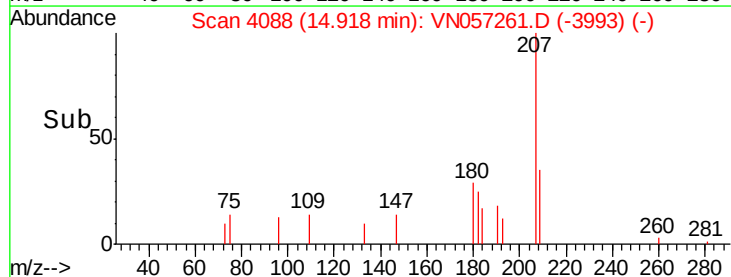
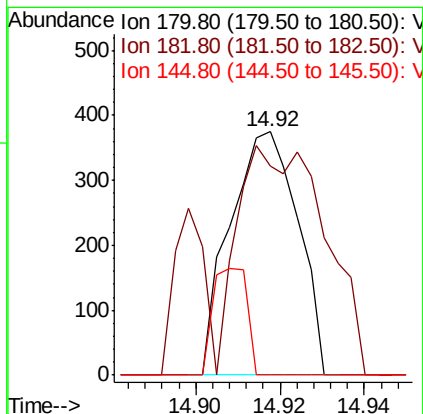
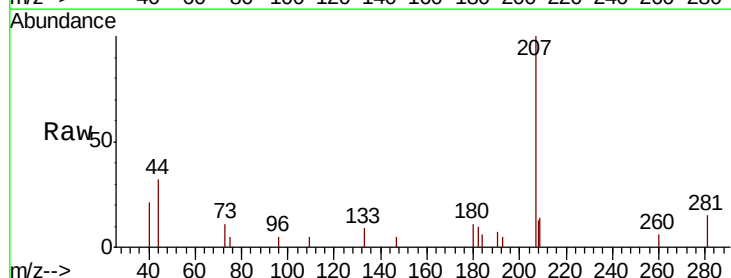
Tgt Ion:180 Resp: 420

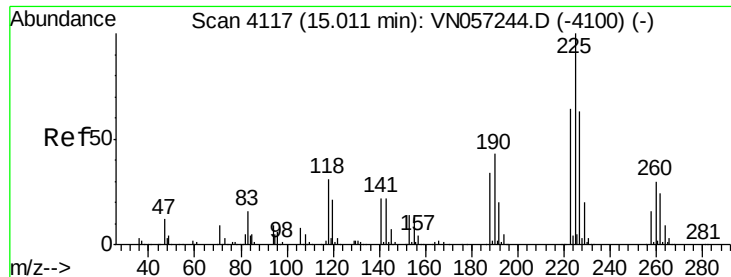
Ion Ratio Lower Upper

180 100

182 121.2 47.7 143.1

145 22.1 14.2 42.6





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN057261.D

Acq: 13 Aug 2019 21:26

Instrument :

MSVOA_N

ClientSampled :

I.BLK

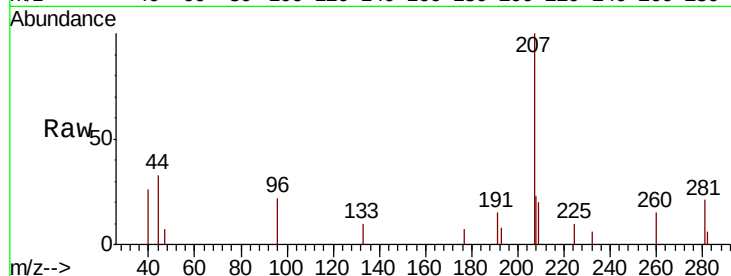
Tgt Ion: 225 Resp: 161

Ion Ratio Lower Upper

225 100

223 18.6 31.4 94.2#

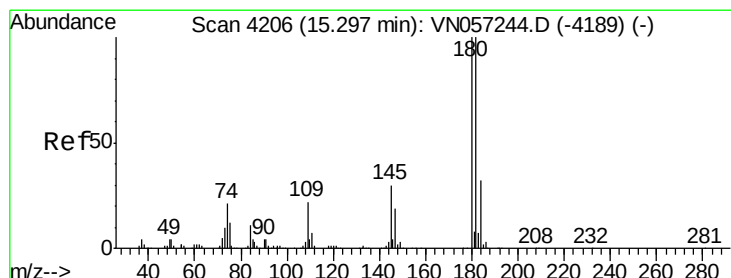
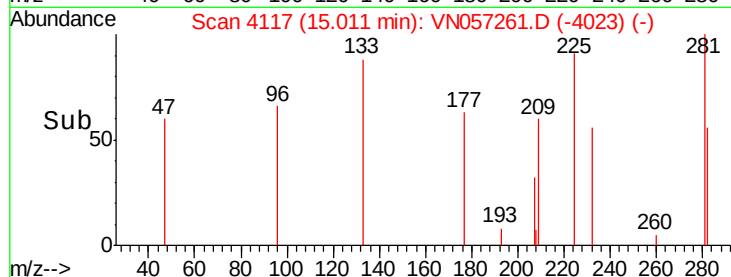
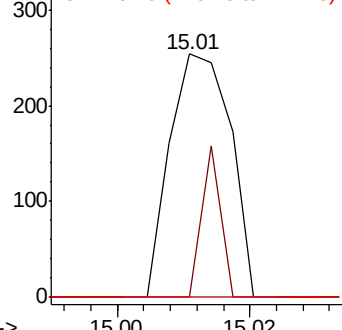
227 0.0 31.4 94.3#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#96

1,2,3-Trichlorobenzene

Concen: 4.337 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.00 min

Lab File: VN057261.D

Acq: 13 Aug 2019 21:26

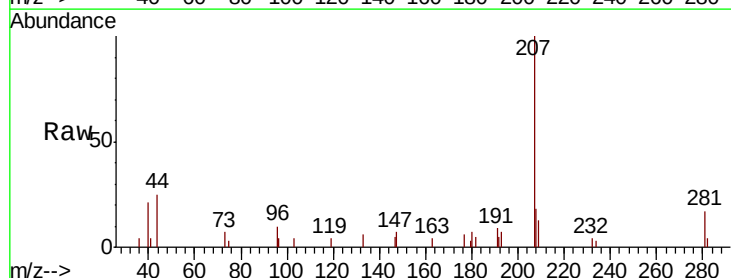
Tgt Ion: 180 Resp: 566

Ion Ratio Lower Upper

180 100

182 0.0 48.9 146.7#

145 12.4 15.0 45.1#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

