

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN053119\
 Data File : VN055934.D
 Acq On : 31 May 2019 22:15
 Operator : JC/SP
 Sample : VN0531WBL02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0531WBL02

Quant Time: Jun 01 02:04:52 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

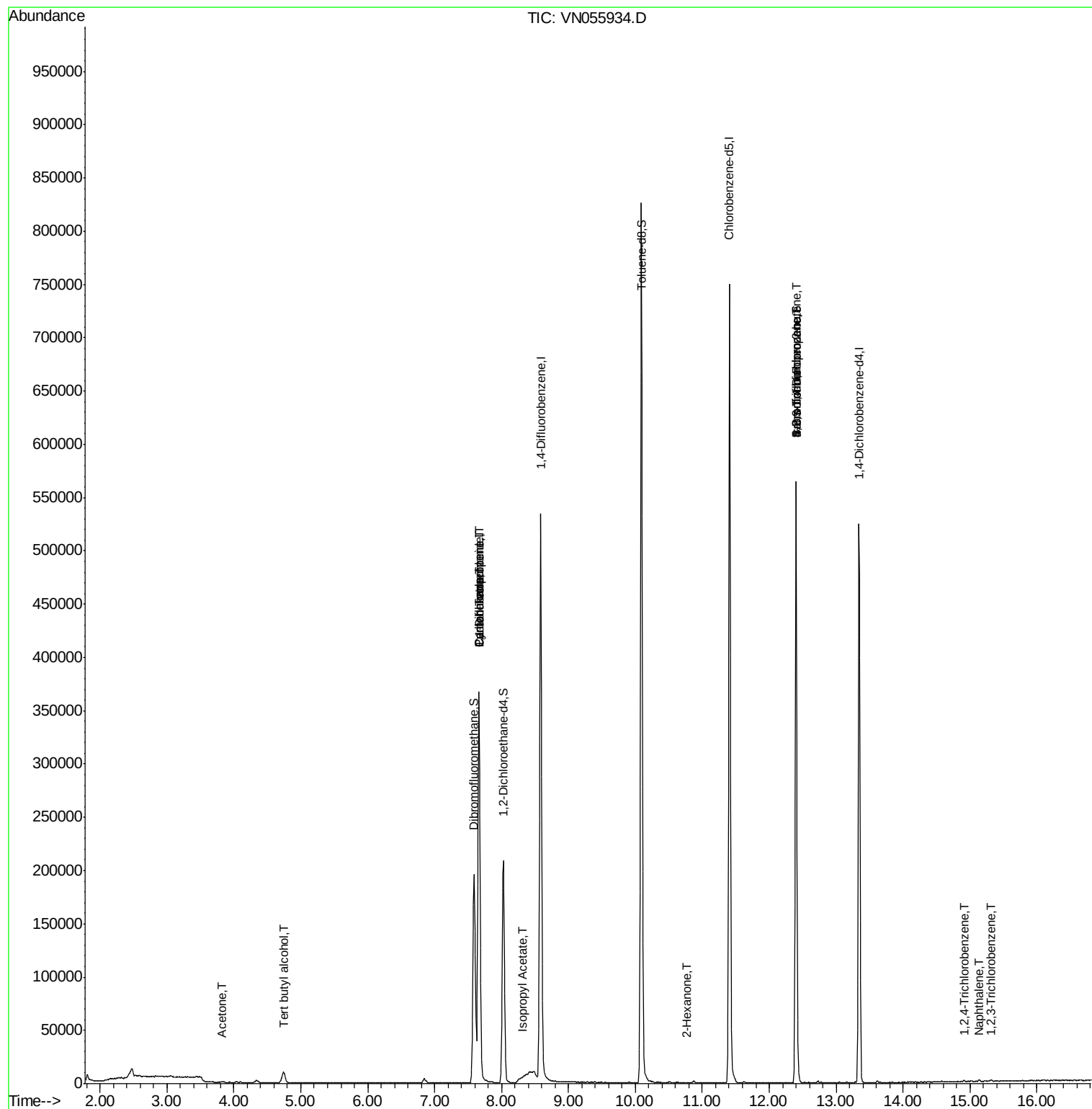
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	344895	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	520757	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	473375	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	161181	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	175567	49.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.58%	
35) Dibromofluoromethane	7.59	113	150132	45.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.20%	
50) Toluene-d8	10.09	98	613525	48.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.16%	
62) 4-Bromofluorobenzene	12.40	95	196776	45.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.88%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.74	59	9382	13.786	ug/l #	74
16) Acetone	3.82	43	1185	0.757	ug/l #	41
31) Cyclohexane	7.66	56	5187	0.970	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	20664	4.553	ug/l #	48
38) Carbon Tetrachloride	7.66	117	28716	6.075	ug/l #	14
43) Isopropyl Acetate	8.30	43	6771	0.919	ug/l #	53
59) 2-Hexanone	10.76	43	691	0.224	ug/l #	35
71) Bromoform	12.40	173	1423	0.441	ug/l #	1
73) Isopropylbenzene	12.25	105	466	Below Cal	#	48
74) N-amyl acetate	12.07	43	204	Below Cal	#	43
76) 1,2,3-Trichloropropane	12.40	75	91197	31.707	ug/l #	100
79) 2-Chlorotoluene	12.67	91	249	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	448	Below Cal	#	38
81) trans-1,4-Dichloro-2-buten	12.40	75	91197	76.128	ug/l #	15
83) tert-Butylbenzene	12.99	119	253	Below Cal	#	62
84) 1,2,4-Trimethylbenzene	13.04	105	520	Below Cal		67
85) sec-Butylbenzene	13.17	105	682	Below Cal	#	55
93) 1,2,4-Trichlorobenzene	14.91	180	794	3.872	ug/l #	88
94) Hexachlorobutadiene	15.00	225	339	Below Cal	#	37
95) Naphthalene	15.13	128	1780	0.239	ug/l #	74
96) 1,2,3-Trichlorobenzene	15.32	180	785	0.273	ug/l #	83

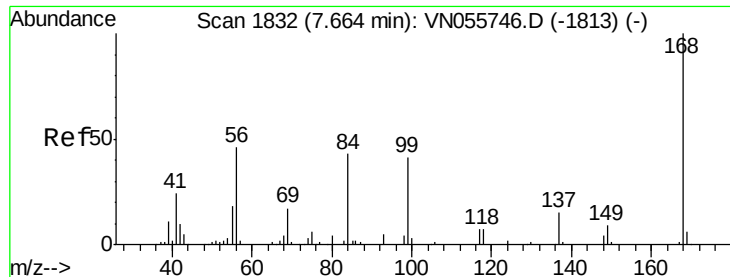
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN053119\
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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: VN055934.D

Acq: 31 May 2019 22:15

Instrument :

MSVOA_N

ClientSampleId :

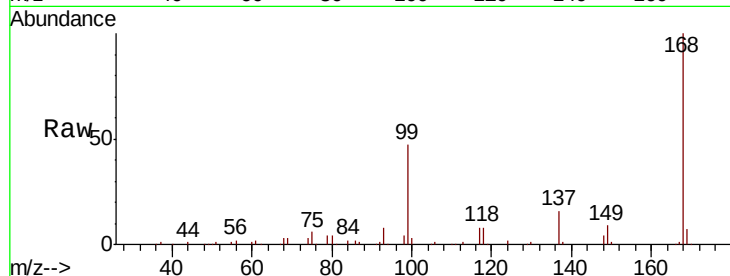
VN0531WBL02

Tot Ion:168 Resp: 344895

Ion Ratio Lower Upper

168 100

99 47.4 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

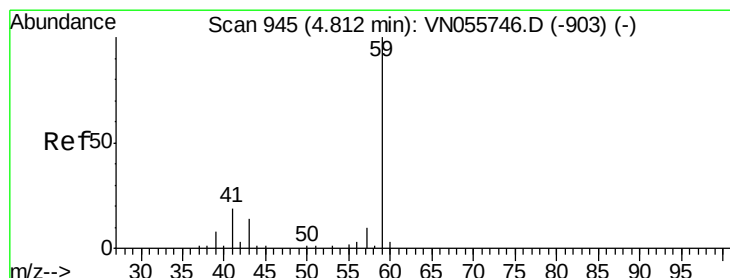
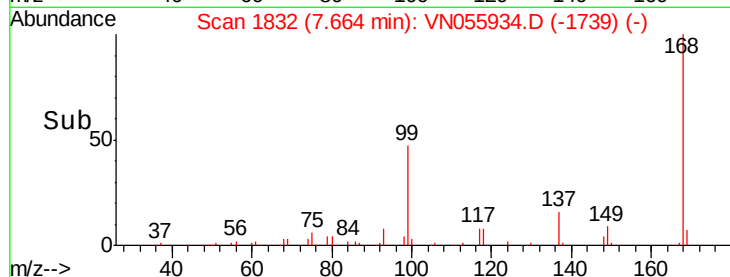
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#11

Tert butyl alcohol

Concen: 13.786 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.07 min

Lab File: VN055934.D

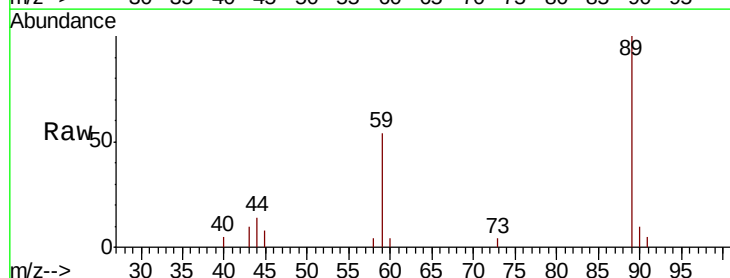
Acq: 31 May 2019 22:15

Tgt Ion: 59 Resp: 9382

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.74

3000

2500

2000

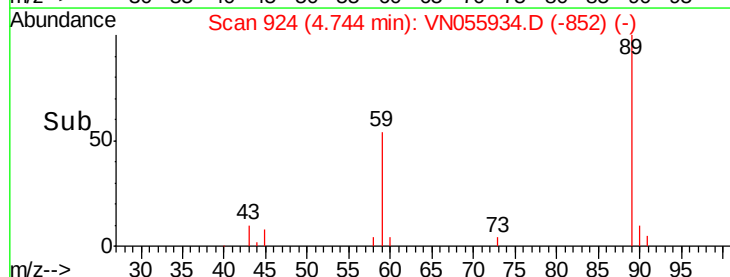
1500

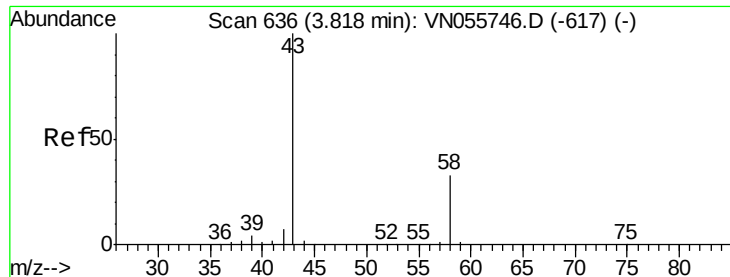
1000

500

0

Time--> 4.65 4.70 4.75 4.80 4.85





#16

Acetone

Concen: 0.757 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN055934.D

Acq: 31 May 2019 22:15

Instrument :

MSVOA_N

ClientSampleId :

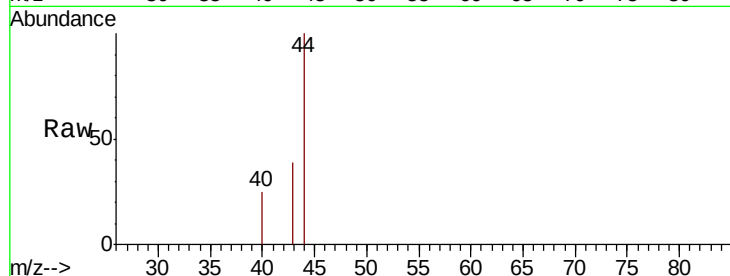
VN0531WBL02

Tot Ion: 43 Resp: 1185

Ion Ratio Lower Upper

43 100

58 0.0 26.6 39.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

400

300

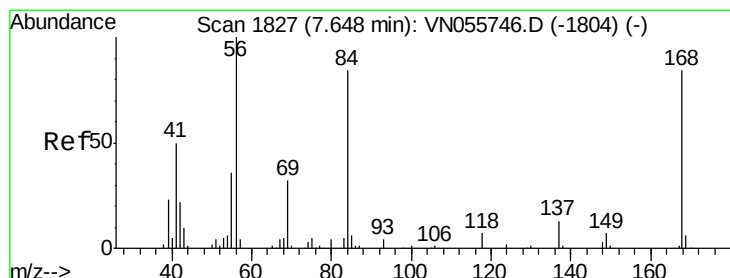
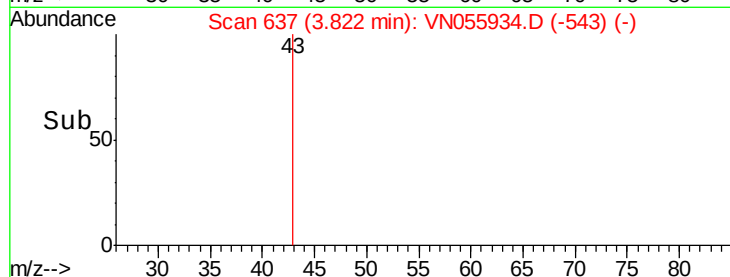
200

100

0

Time-->

3.75 3.80 3.85



#31

Cyclohexane

Concen: 0.970 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN055934.D

Acq: 31 May 2019 22:15

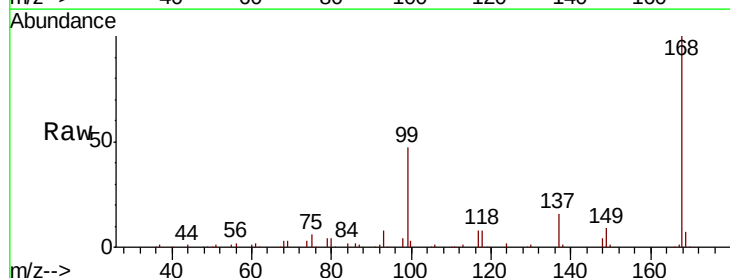
Tgt Ion: 56 Resp: 5187

Ion Ratio Lower Upper

56 100

69 183.3 25.6 38.4#

84 152.2 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

6000

5000

4000

3000

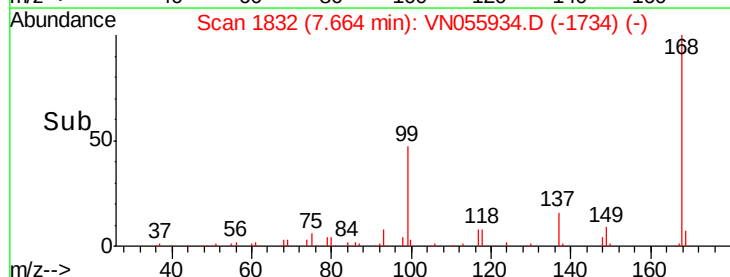
2000

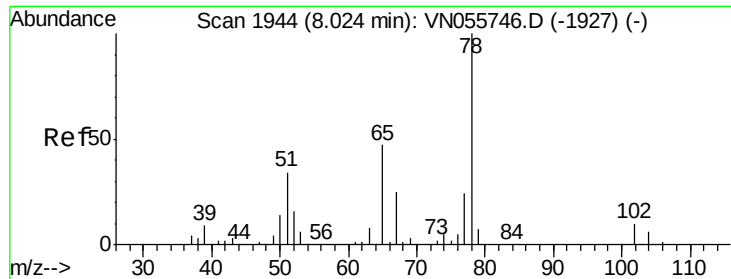
1000

0

Time-->

7.60 7.65 7.70

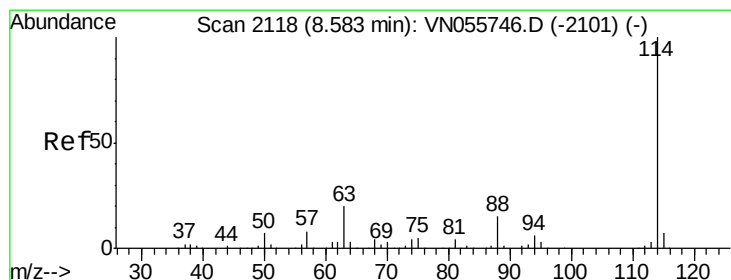
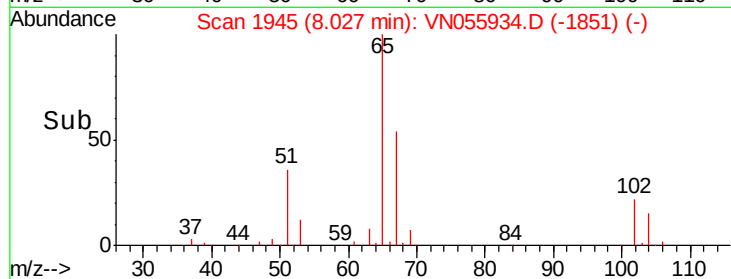
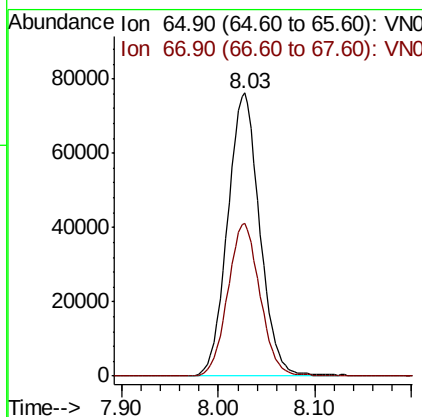
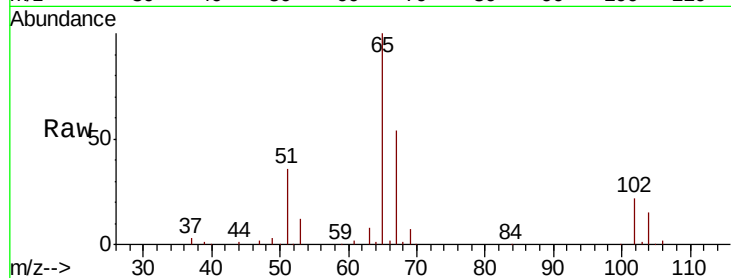




#33
 1,2-Dichloroethane-d4
 Concen: 49.292 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055934.D
 Acq: 31 May 2019 22:15

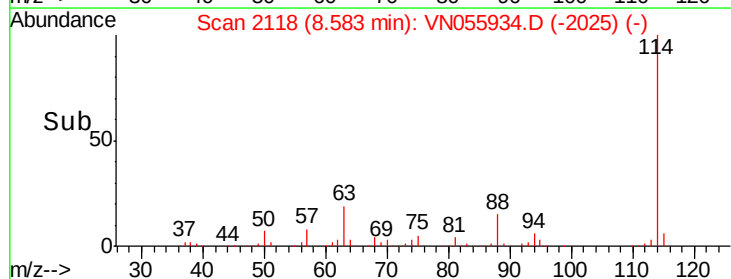
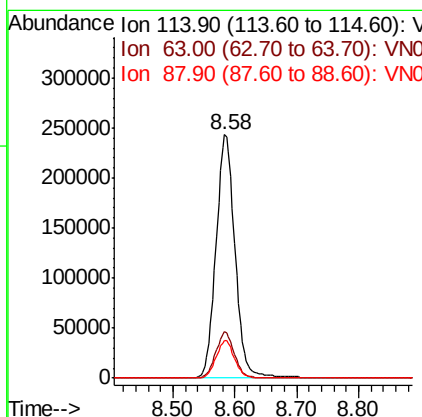
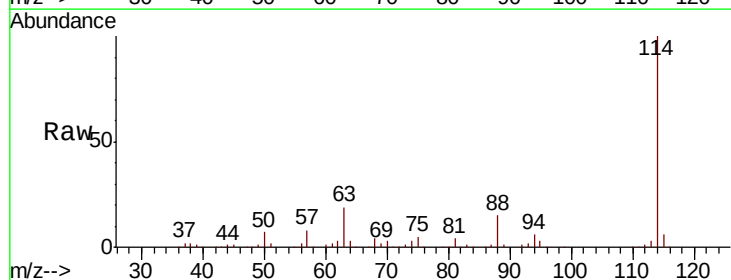
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0531WBL02

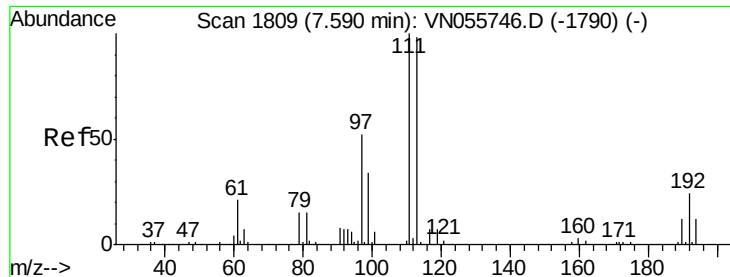
Tot Ion: 65 Resp: 175567
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055934.D
 Acq: 31 May 2019 22:15

Tgt Ion: 114 Resp: 520757
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 39.2
 88 15.4 0.0 31.0

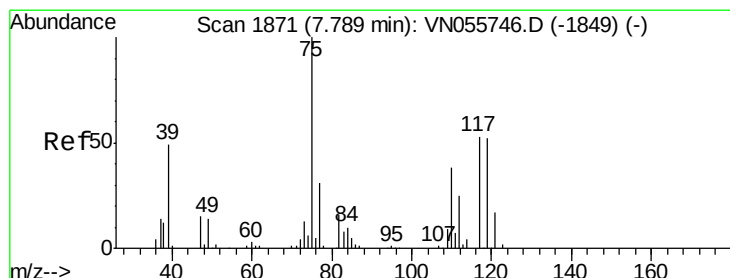
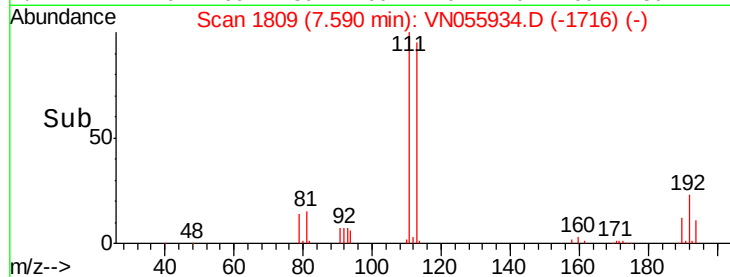
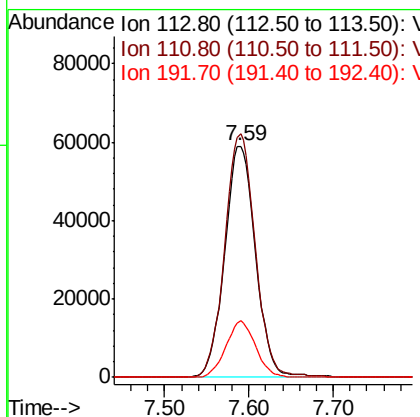
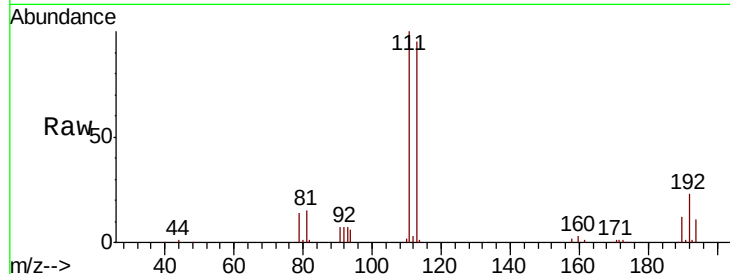




#35
 Dibromofluoromethane
 Concen: 45.600 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055934.D
 Acq: 31 May 2019 22:15

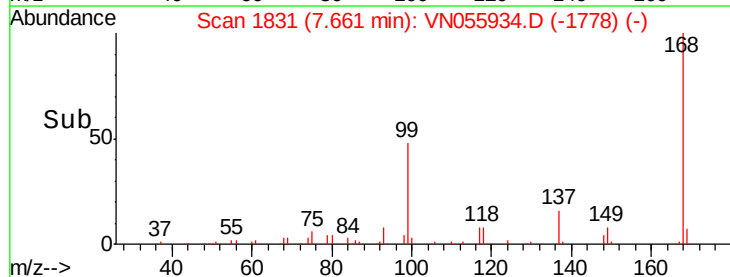
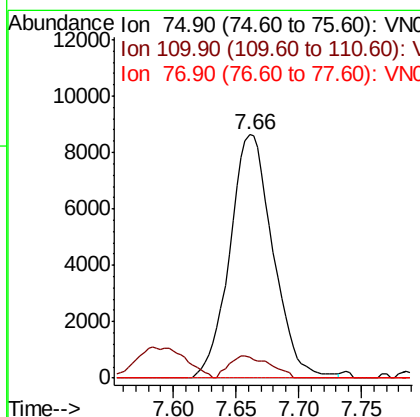
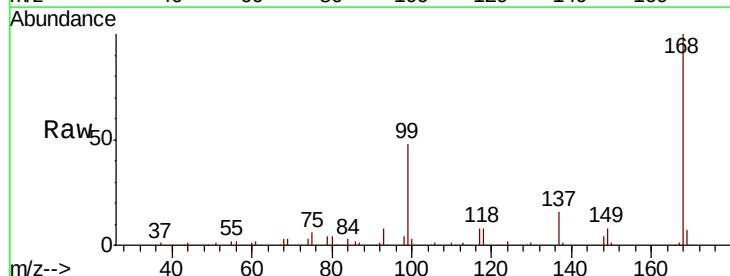
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0531WBL02

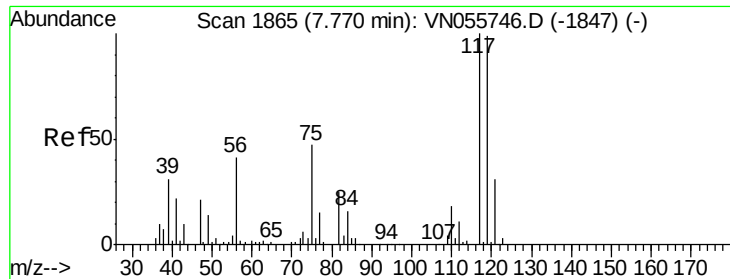
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.3	81.9	122.9
192	23.5	19.5	29.3



#36
 1,1-Dichloropropene
 Concen: 4.553 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN055934.D
 Acq: 31 May 2019 22:15

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	19.0	57.0#
77	0.0	25.1	37.7#





#38

Carbon Tetrachloride

Concen: 6.075 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055934.D

Acq: 31 May 2019 22:15

Instrument :

MSVOA_N

ClientSampled :

VN0531WBL02

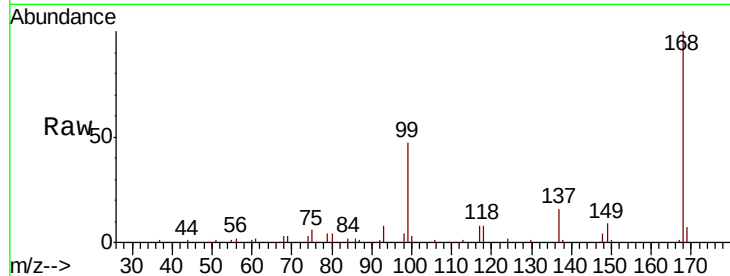
Tot Ion:117 Resp: 28716

Ion Ratio Lower Upper

117 100

119 4.1 79.0 118.6#

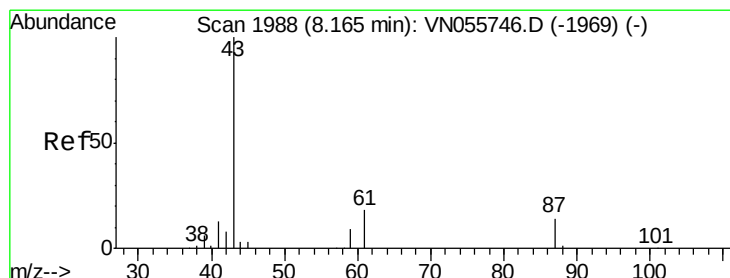
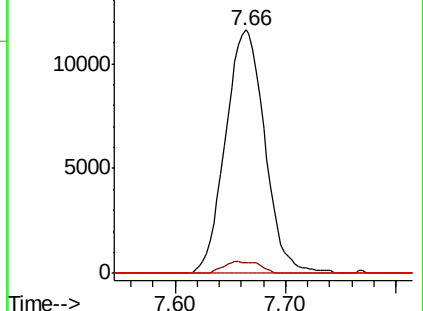
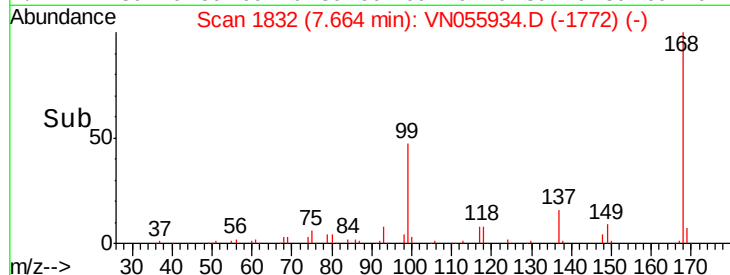
121 0.0 24.7 37.1#



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: 0.919 ug/l

RT: 8.30 min Scan# 2030

Delta R.T. 0.14 min

Lab File: VN055934.D

Acq: 31 May 2019 22:15

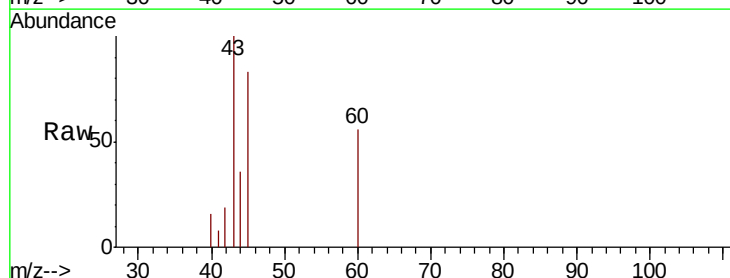
Tgt Ion: 43 Resp: 6771

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

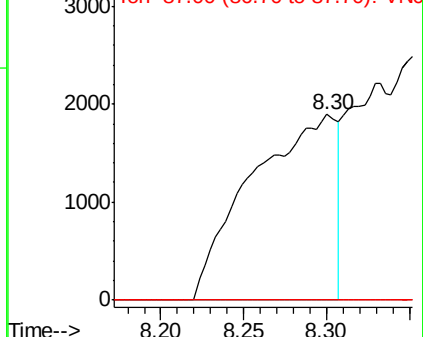
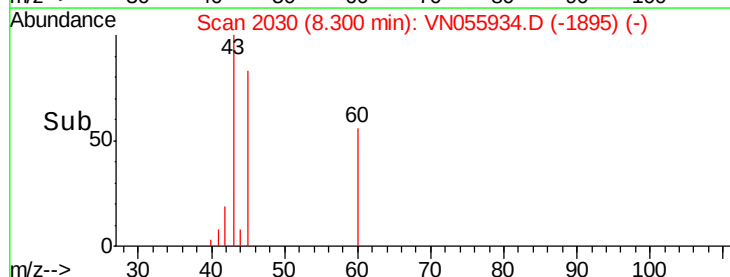
87 0.0 11.4 17.2#

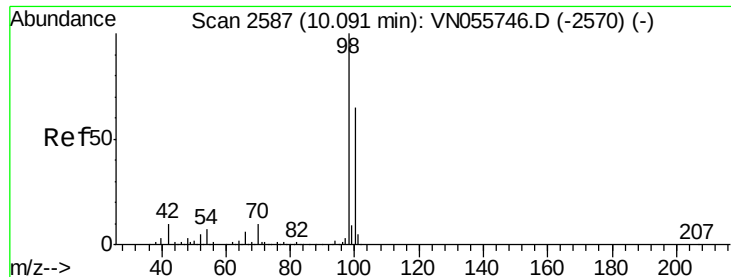


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

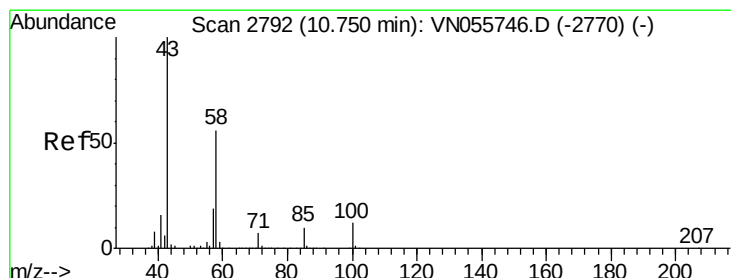
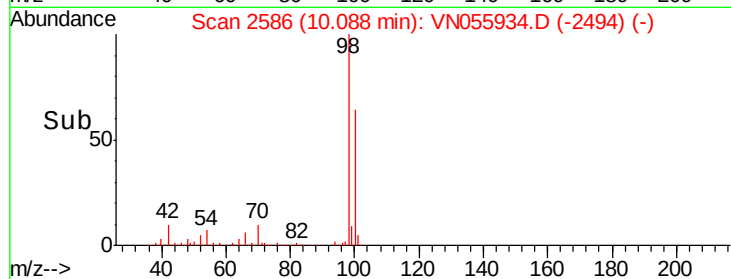
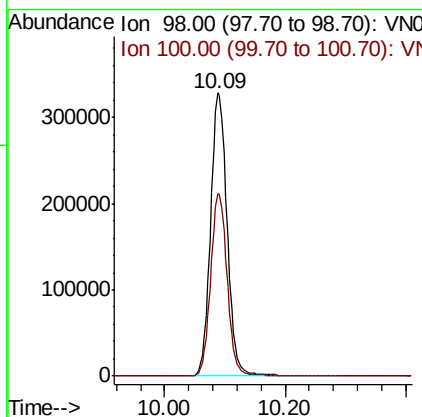
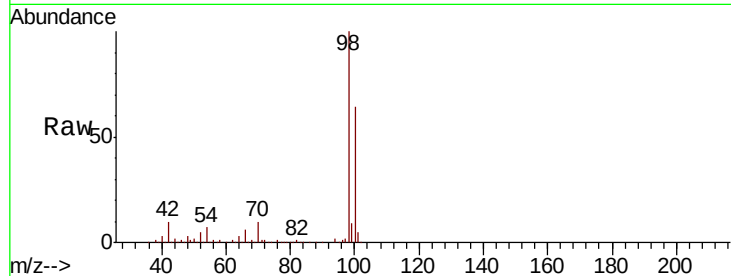




#50
Toluene-d8
Concen: 48.579 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN055934.D
Acq: 31 May 2019 22:15

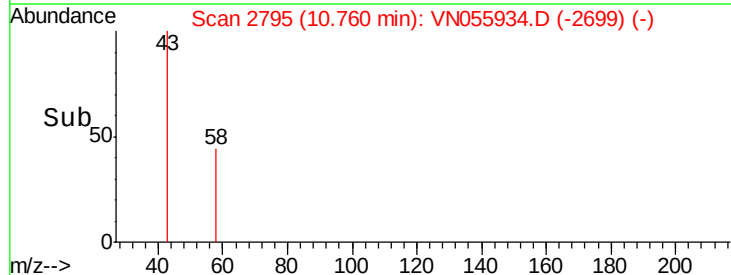
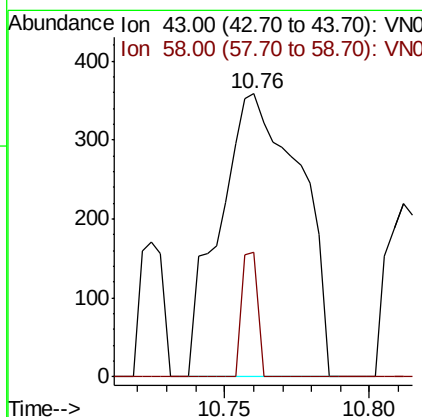
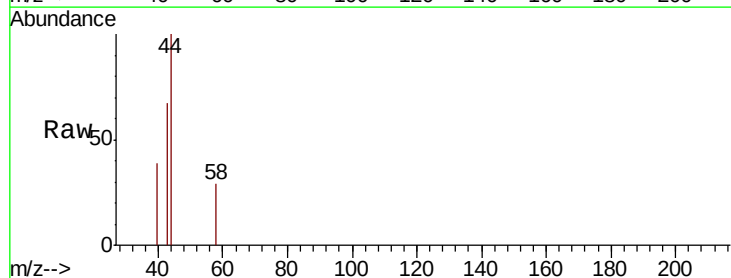
Instrument :
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VN0531WBL02

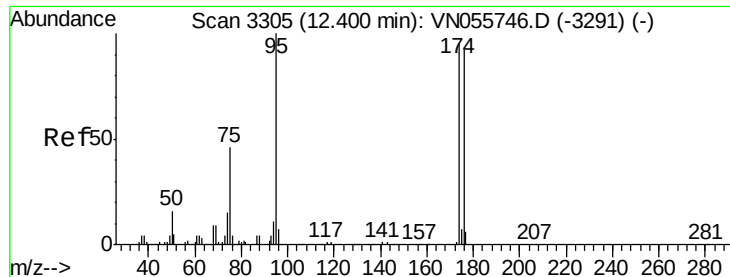
Tot Ion: 98 Resp: 613525
Ion Ratio Lower Upper
98 100
100 64.5 51.9 77.9



#59
2-Hexanone
Concen: 0.224 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN055934.D
Acq: 31 May 2019 22:15

Tgt Ion: 43 Resp: 691
Ion Ratio Lower Upper
43 100
58 8.7 28.2 84.7#





#62

4-Bromofluorobenzene

Concen: 45.440 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055934.D

Acq: 31 May 2019 22:15

Instrument :

MSVOA_N

ClientSampleId :

VN0531WBL02

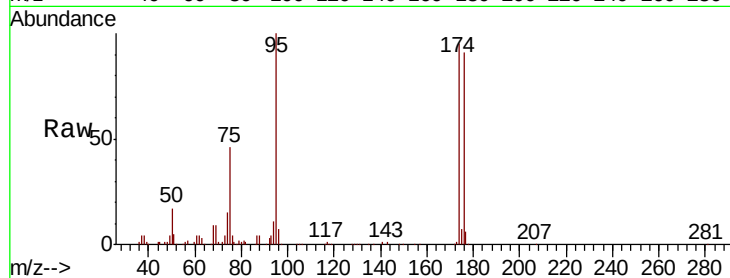
Tot Ion: 95 Resp: 196776

Ion Ratio Lower Upper

95 100

174 94.9 0.0 191.0

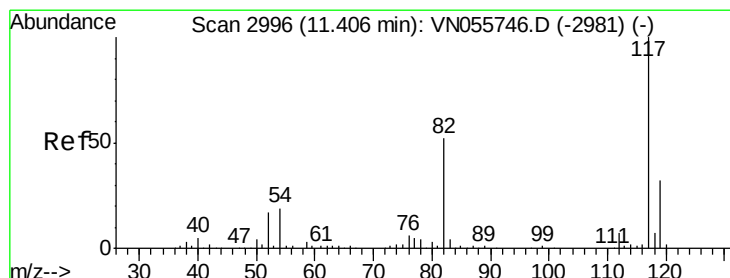
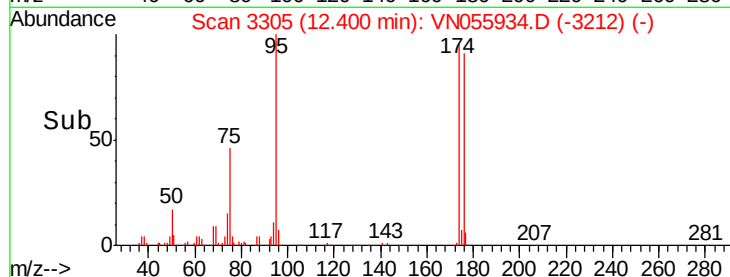
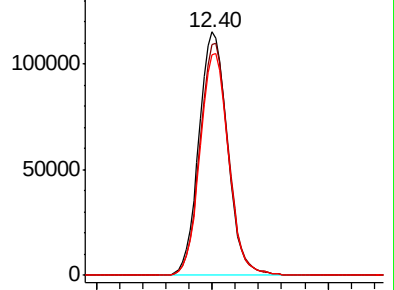
176 91.1 0.0 185.2



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: VN055934.D

Acq: 31 May 2019 22:15

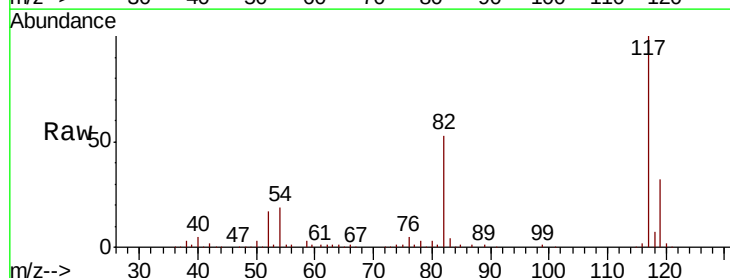
Tgt Ion: 117 Resp: 473375

Ion Ratio Lower Upper

117 100

82 53.0 41.8 62.8

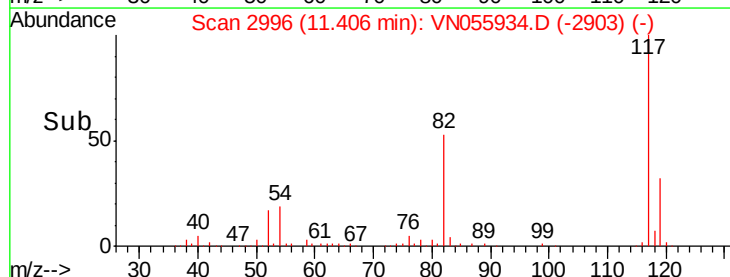
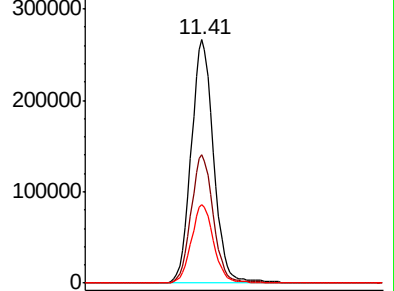
119 32.4 25.4 38.0

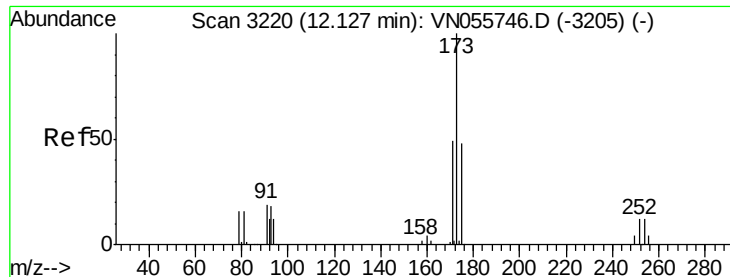


Abundance Ion 116.90 (116.60 to 117.60): VN055746.D (-2981) (-)

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

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





#71

Bromoform

Concen: 0.441 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055934.D

Acq: 31 May 2019 22:15

Instrument :

MSVOA_N

ClientSampled :

VN0531WBL02

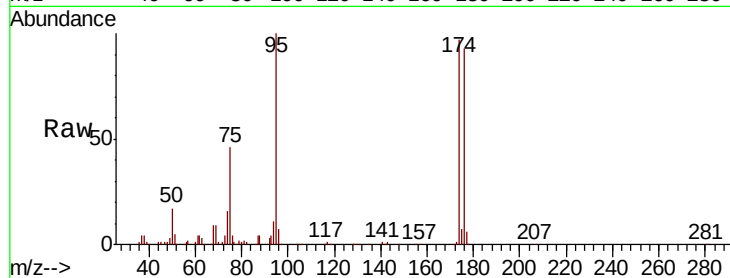
Tot Ion:173 Resp: 1423

Ion Ratio Lower Upper

173 100

175 810.4 24.3 72.8#

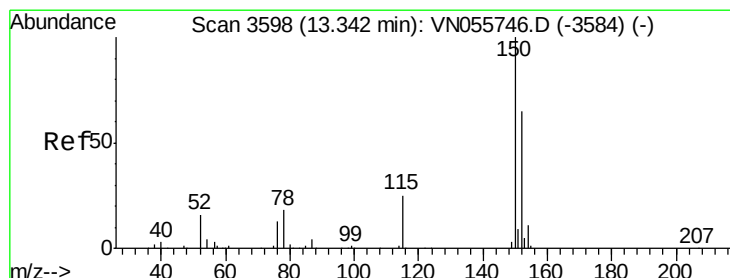
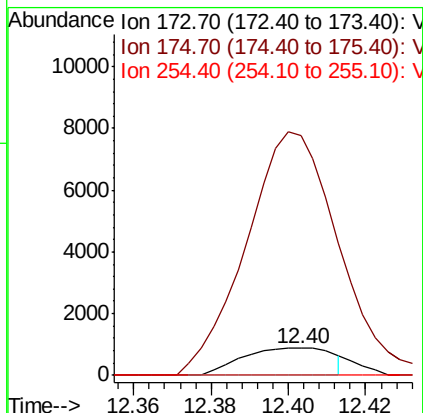
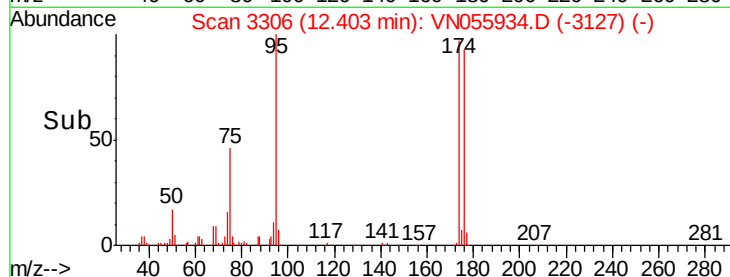
254 0.0 0.0 0.0



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN055934.D

Acq: 31 May 2019 22:15

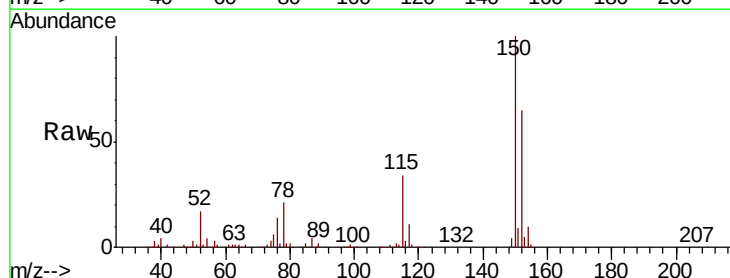
Tgt Ion:152 Resp: 161181

Ion Ratio Lower Upper

152 100

115 52.9 27.0 81.0

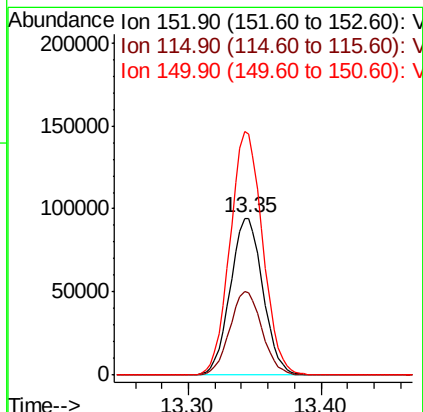
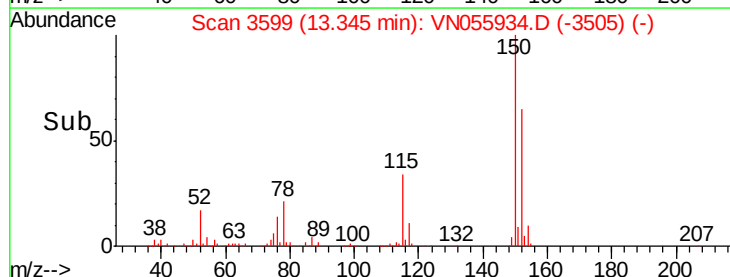
150 155.2 0.0 343.2

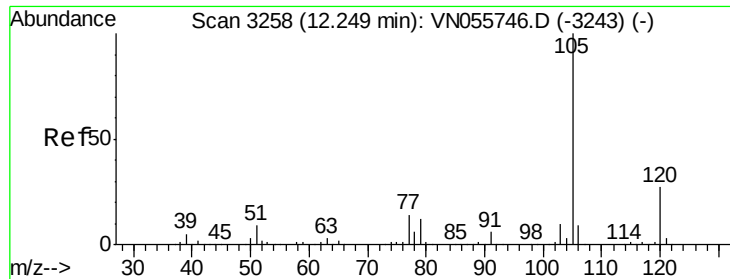


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN055934.D

Acq: 31 May 2019 22:15

Instrument :

MSVOA_N

ClientSampleId :

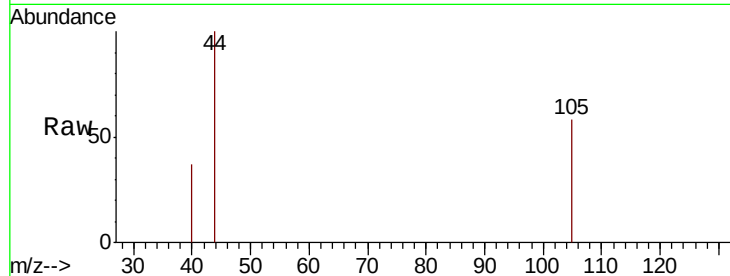
VN0531WBL02

Tot Ion:105 Resp: 466

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

12.25

400

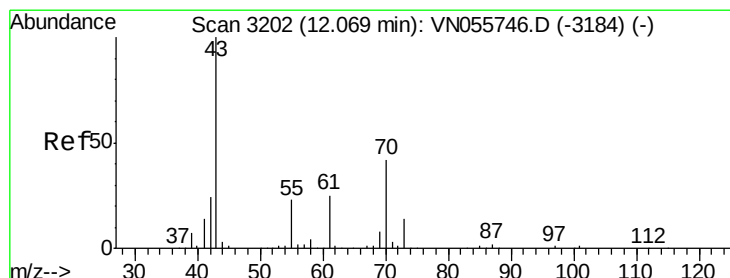
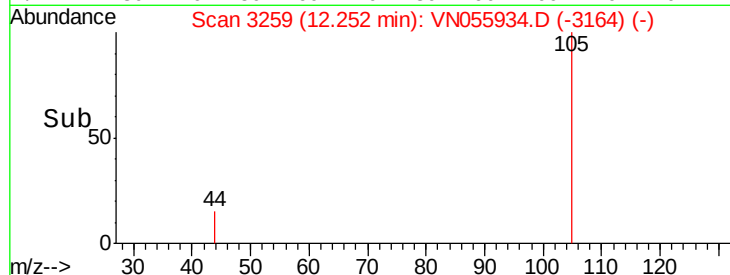
300

200

100

0

Time-->



#74

N-ethyl acetate

Concen: Below Cal

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN055934.D

Acq: 31 May 2019 22:15

Tgt Ion: 43 Resp: 204

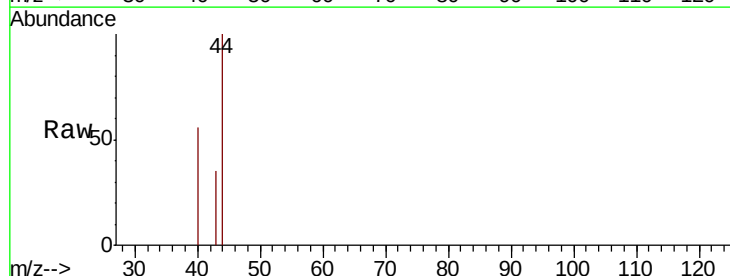
Ion Ratio Lower Upper

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): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

300

250

200

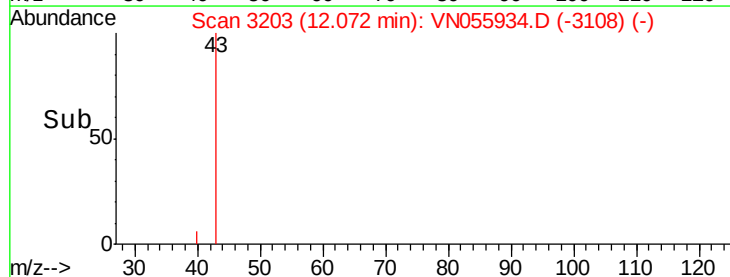
150

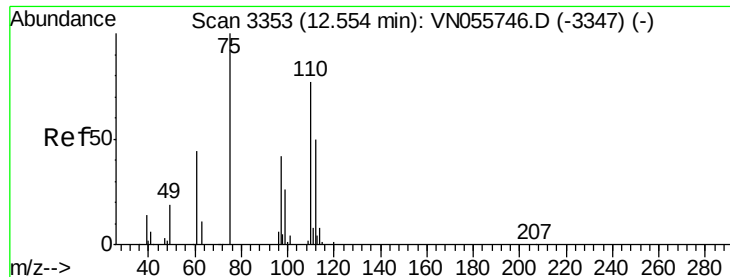
100

50

0

Time-->





#76

1,2,3-Trichloropropane

Concen: 31.707 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055934.D

Acq: 31 May 2019 22:15

Instrument :

MSVOA_N

ClientSampleId :

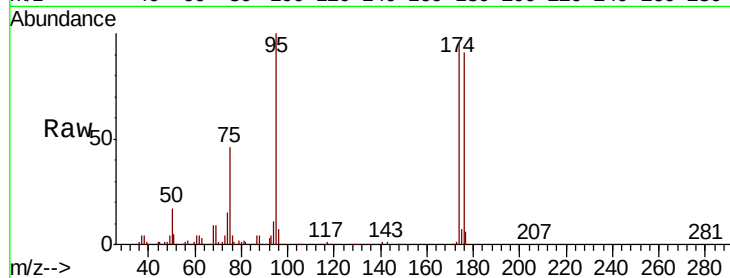
VN0531WBL02

Tot Ion: 75 Resp: 91197

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

12.40

60000

50000

40000

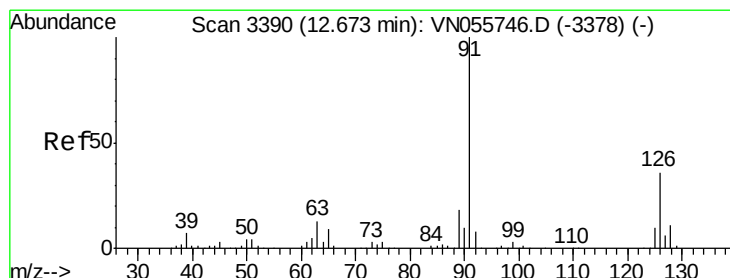
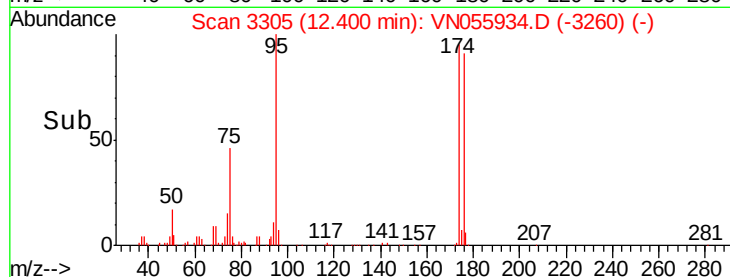
30000

20000

10000

0

Time-->



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055934.D

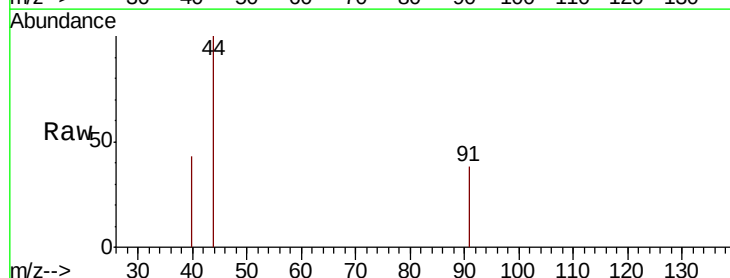
Acq: 31 May 2019 22:15

Tgt Ion: 91 Resp: 249

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

12.67

250

200

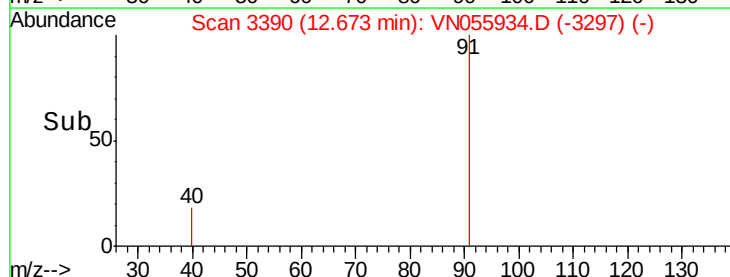
150

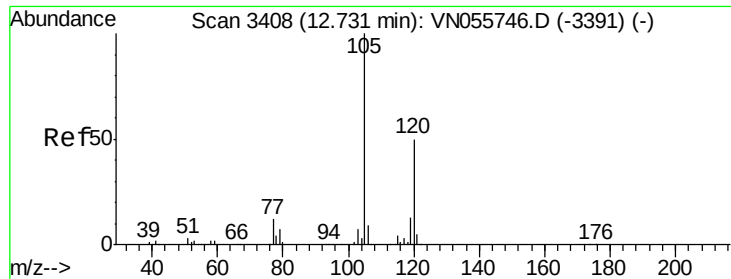
100

50

0

Time-->

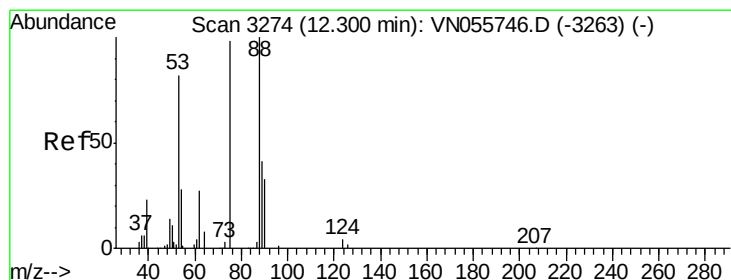
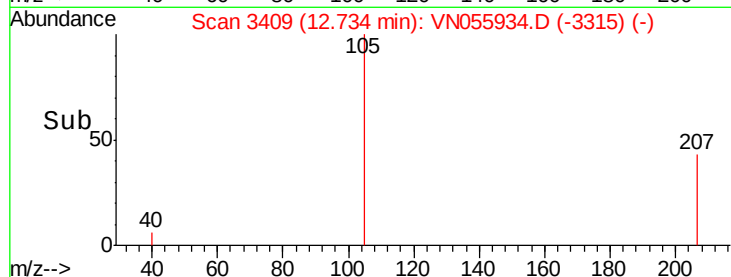
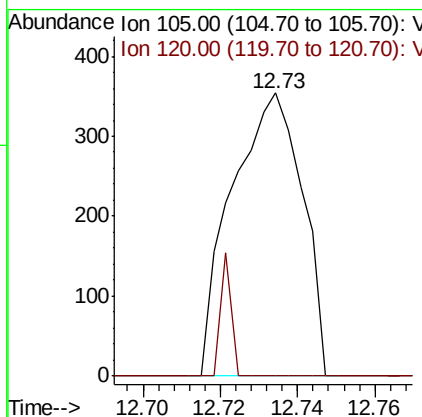
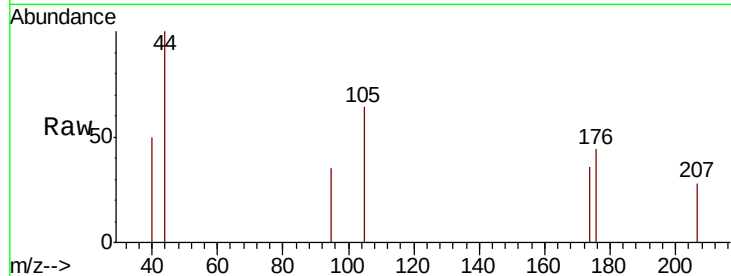




#80
 1,3,5-Trimethylbenzene
 Concen: Below Cal
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN055934.D
 Acq: 31 May 2019 22:15

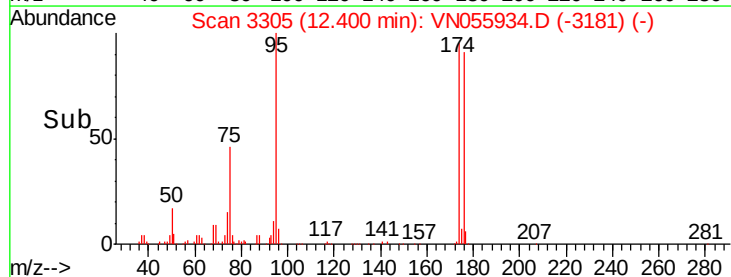
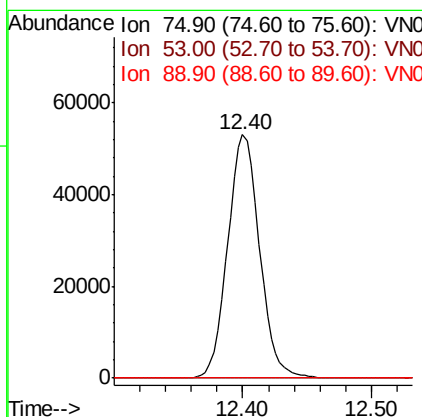
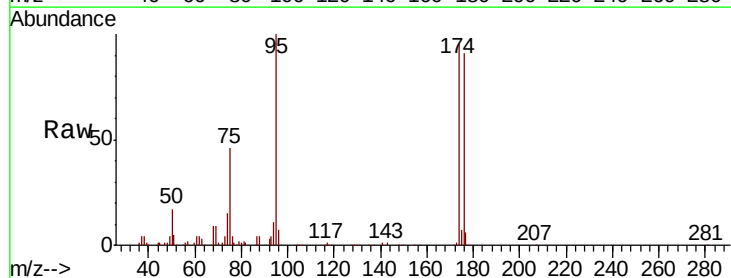
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0531WBL02

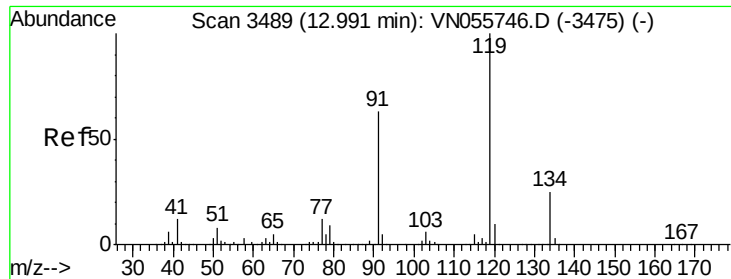
Tot Ion: 105 Resp: 448
 Ion Ratio Lower Upper
 105 100
 120 6.7 24.7 74.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 76.128 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN055934.D
 Acq: 31 May 2019 22:15

Tgt Ion: 75 Resp: 91197
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.1 102.1#
 89 0.0 36.9 55.3#

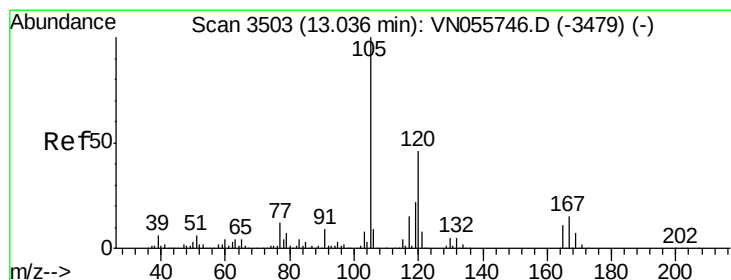
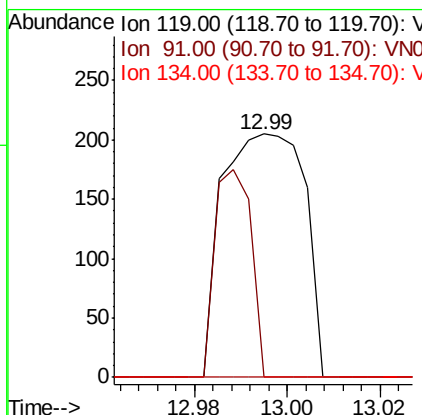
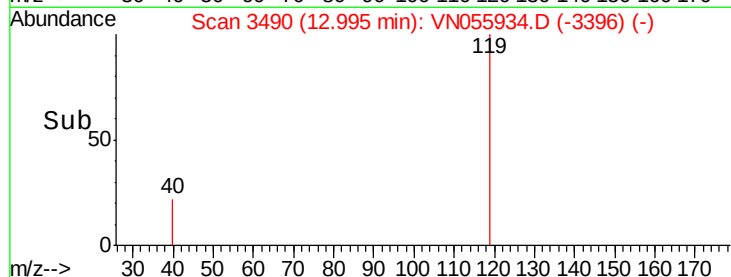
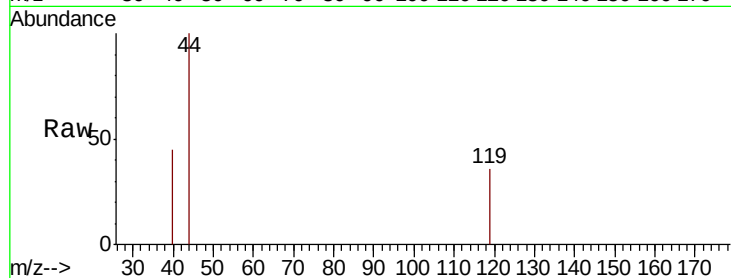




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN055934.D
 Acq: 31 May 2019 22:15

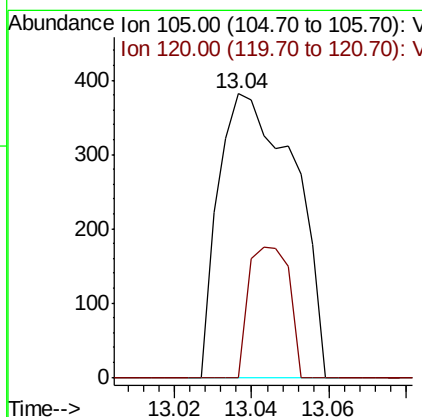
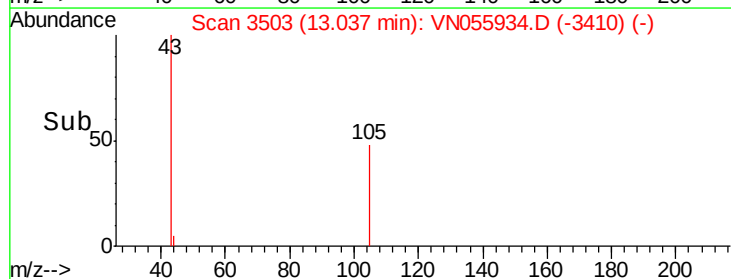
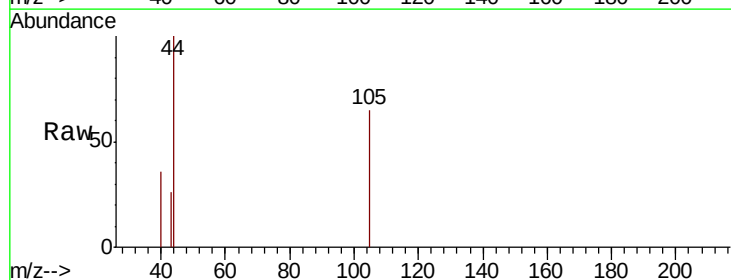
Instrument :
 MSVOA_N
 ClientSampleID :
 VN0531WBL02

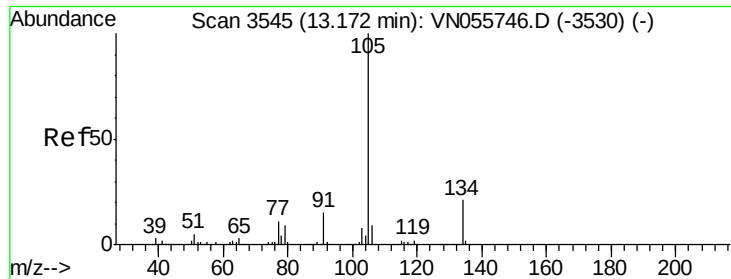
Tot Ion:119 Resp: 253
 Ion Ratio Lower Upper
 119 100
 91 37.2 30.9 92.8
 134 0.0 13.3 39.8#



#84
 1,2,4-Trimethylbenzene
 Concen: Below Cal
 RT: 13.04 min Scan# 3503
 Delta R.T. 0.00 min
 Lab File: VN055934.D
 Acq: 31 May 2019 22:15

Tgt Ion:105 Resp: 520
 Ion Ratio Lower Upper
 105 100
 120 24.4 23.0 69.0





#85

sec-Butylbenzene

Concen: Below Cal

RT: 13.17 min Scan# 3543

Delta R.T. -0.01 min

Lab File: VN055934.D

Acq: 31 May 2019 22:15

Instrument :

MSVOA_N

ClientSampleId :

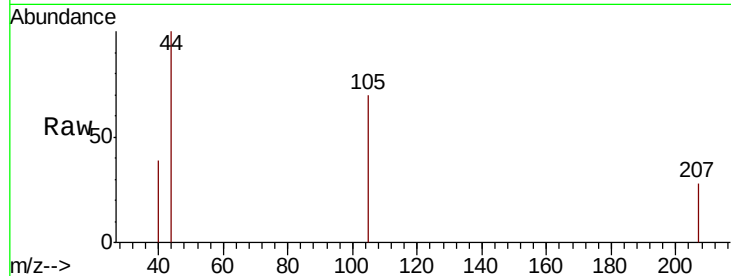
VN0531WBL02

Tot Ion:105 Resp: 682

Ion Ratio Lower Upper

105 100

134 0.0 10.4 31.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

400

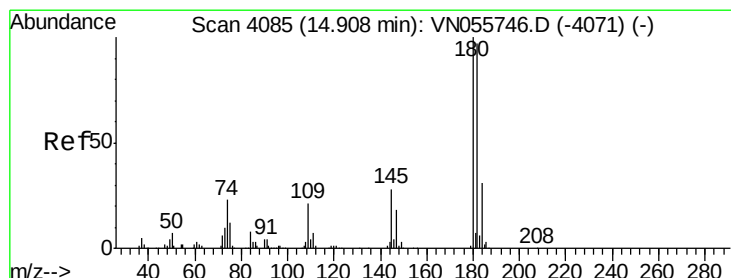
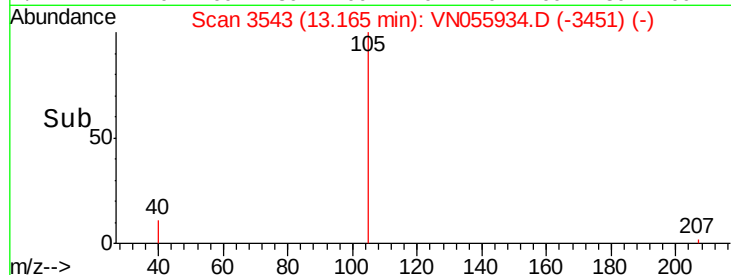
300

200

100

0

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 3.872 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN055934.D

Acq: 31 May 2019 22:15

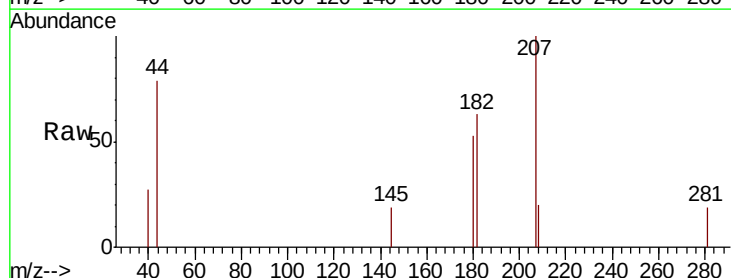
Tgt Ion:180 Resp: 794

Ion Ratio Lower Upper

180 100

182 89.8 48.3 144.9

145 12.6 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

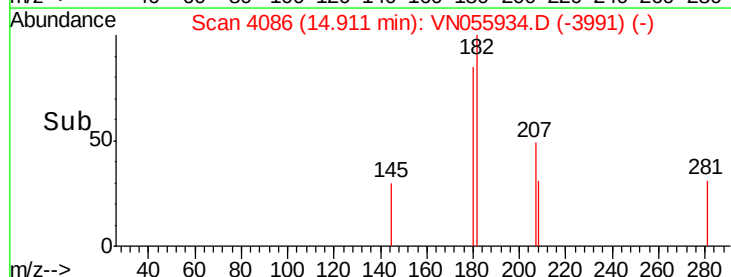
600

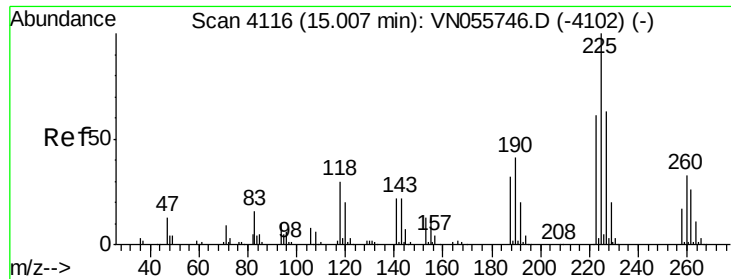
400

200

0

Time-->





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.00 min Scan# 4115

Delta R.T. -0.00 min

Lab File: VN055934.D

Acq: 31 May 2019 22:15

Instrument :

MSVOA_N

ClientSampled :

VN0531WBL02

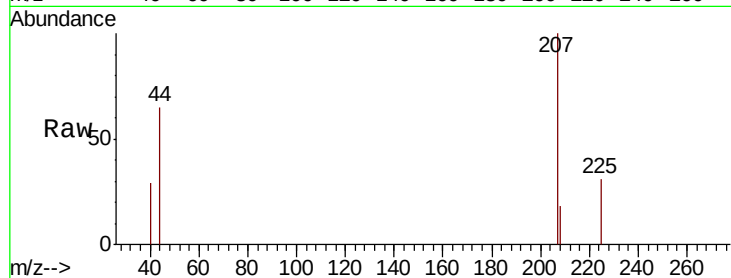
Tot Ion:225 Resp: 339

Ion Ratio Lower Upper

225 100

223 18.9 30.9 92.7#

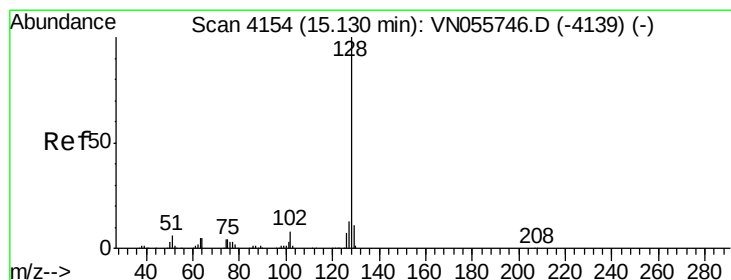
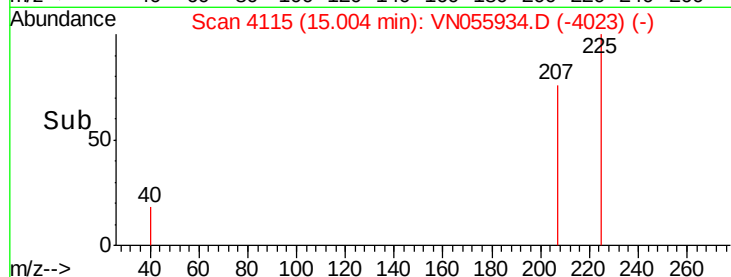
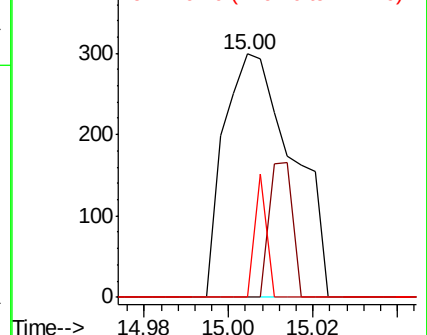
227 8.6 31.6 94.7#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.239 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN055934.D

Acq: 31 May 2019 22:15

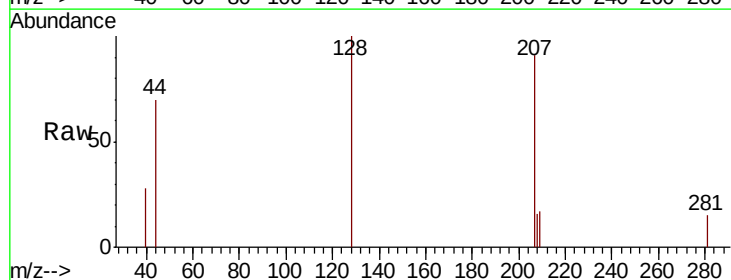
Tgt Ion:128 Resp: 1780

Ion Ratio Lower Upper

128 100

127 3.4 10.3 15.5#

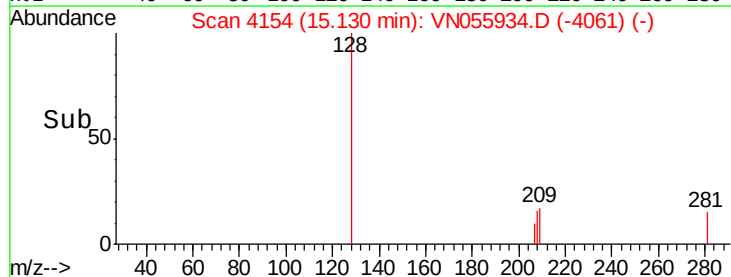
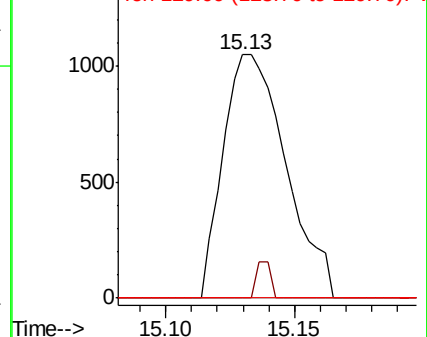
129 0.0 8.7 13.1#

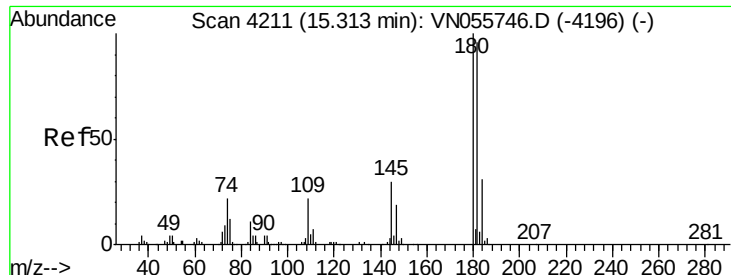


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

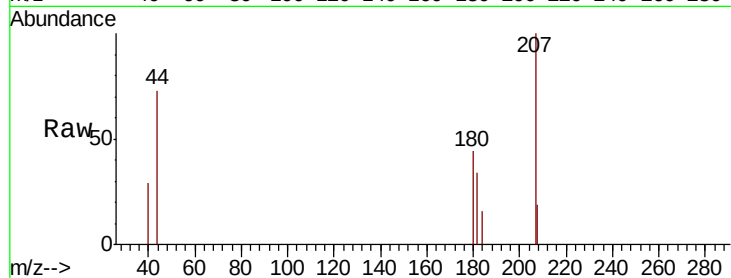




#96
 1,2,3-Trichlorobenzene
 Concen: 0.273 ug/l
 RT: 15.32 min Scan# 4214
 Delta R.T. 0.01 min
 Lab File: VN055934.D
 Acq: 31 May 2019 22:15

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0531WBL02

Tot Ion	Ratio	Lower	Upper
180	100		
182	88.9	47.9	143.7
145	3.7	14.9	44.7#



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

