

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052819\
 Data File : VN055842.D
 Acq On : 28 May 2019 10:45
 Operator : JC/SP
 Sample : K3037-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FB-20190522

Quant Time: May 28 17:36:58 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	429965	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	606427	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	552207	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	182805	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	200595	45.18	ug/l	0.00
Spiked Amount			Recovery	=	90.36%	
35) Dibromofluoromethane	7.59	113	183744	47.92	ug/l	0.00
Spiked Amount			Recovery	=	95.84%	
50) Toluene-d8	10.09	98	728374	49.53	ug/l	0.00
Spiked Amount			Recovery	=	99.06%	
62) 4-Bromofluorobenzene	12.40	95	229423	45.49	ug/l	0.00
Spiked Amount			Recovery	=	90.98%	

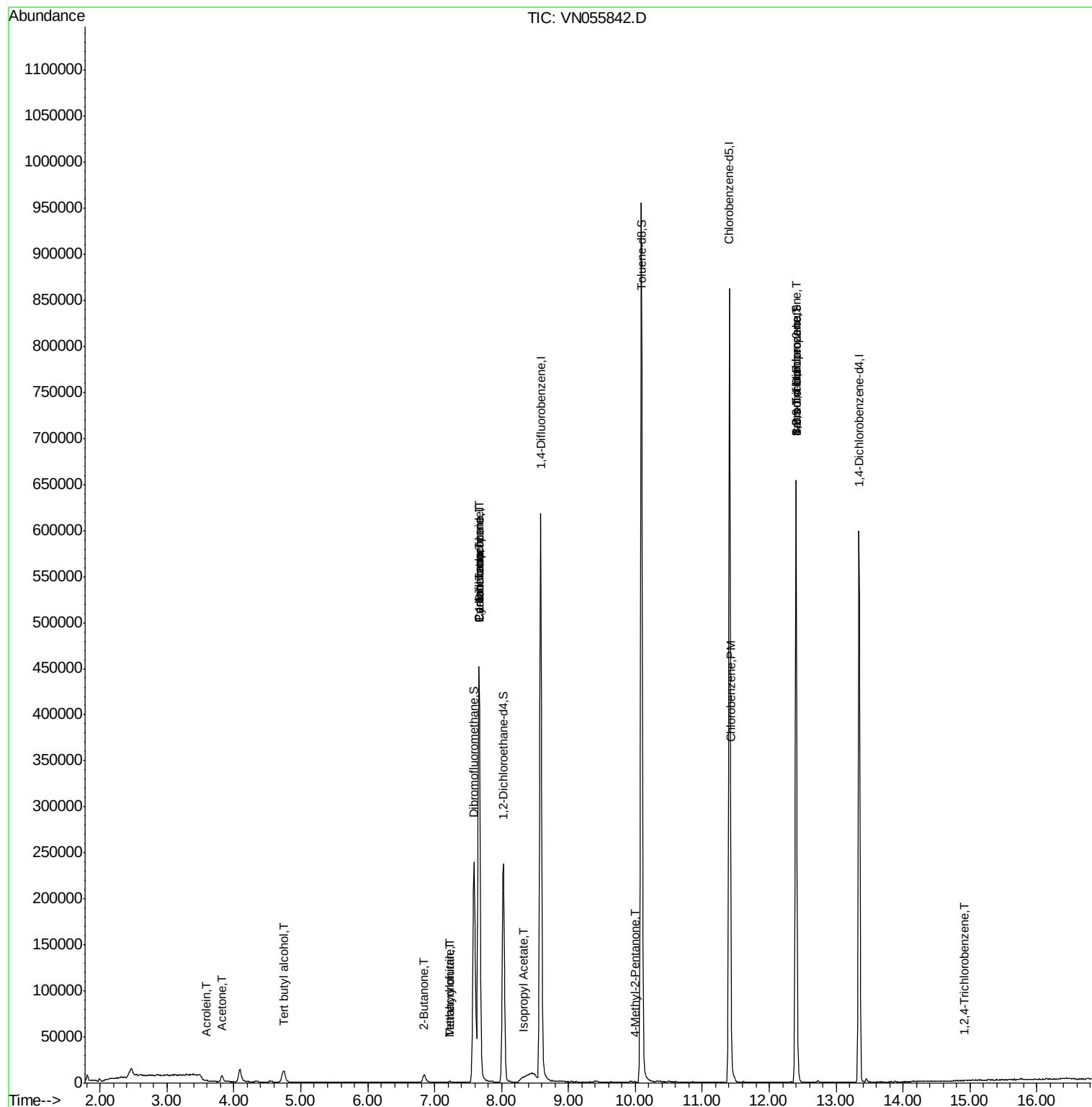
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	12735	15.011	ug/l #	74
13) Acrolein	3.59	56	181	0.298	ug/l #	27
16) Acetone	3.82	43	11879	6.086	ug/l	98
18) Methyl Acetate	4.34	43	2861	Below Cal	#	60
25) 2-Butanone	6.85	43	1934	0.709	ug/l #	47
29) Tetrahydrofuran	7.22	42	363	0.210	ug/l #	85
31) Cyclohexane	7.66	56	6204	0.931	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	24535	4.643	ug/l #	48
38) Carbon Tetrachloride	7.66	117	34882	6.337	ug/l #	14
41) Methacrylonitrile	7.23	41	701	0.272	ug/l #	19
43) Isopropyl Acetate	8.32	43	6315	0.736	ug/l #	53
51) 4-Methyl-2-Pentanone	9.99	43	1247	0.246	ug/l #	74
65) Chlorobenzene	11.43	112	2459	0.222	ug/l #	86
71) Bromoform	12.40	173	1138	0.303	ug/l #	1
73) Isopropylbenzene	12.40	105	236	Below Cal	#	48
74) N-amyl acetate	12.07	43	29	Below Cal	#	43
76) 1,2,3-Trichloropropane	12.40	75	104707	32.140	ug/l #	100
79) 2-Chlorotoluene	12.59	91	132	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	104707	77.066	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	368	Below Cal	#	30
85) sec-Butylbenzene	13.04	105	368	Below Cal	#	55
93) 1,2,4-Trichlorobenzene	14.92	180	29	3.644	ug/l #	85

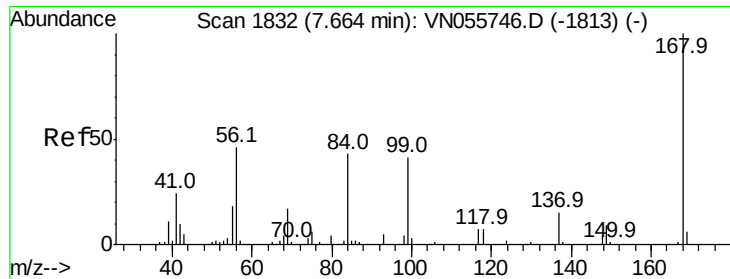
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055842.D

Acq: 28 May 2019 10:45

Instrument :

MSVOA_N

ClientSampleId :

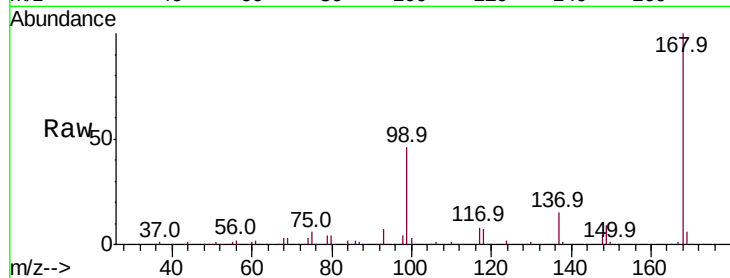
FB-20190522

Tot Ion:168 Resp: 429965

Ion Ratio Lower Upper

168 100

99 45.8 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055746.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN055746.D (-1813) (-)

7.66

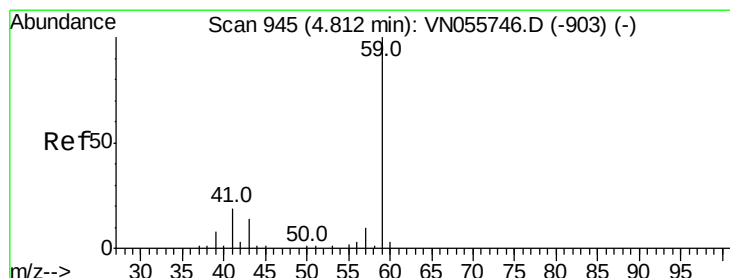
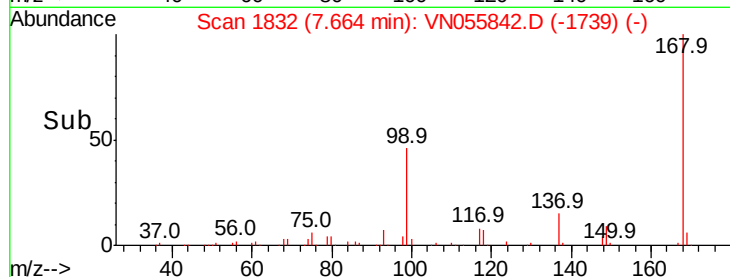
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 15.011 ug/l

RT: 4.74 min Scan# 922

Delta R.T. -0.07 min

Lab File: VN055842.D

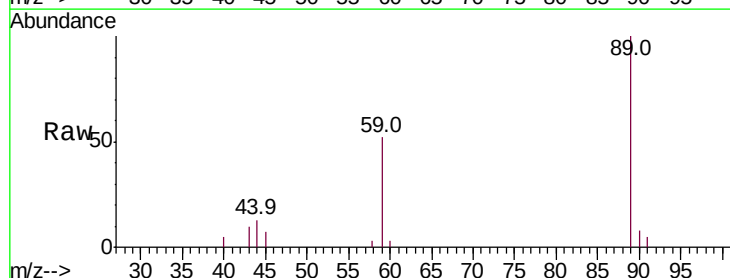
Acq: 28 May 2019 10:45

Tgt Ion: 59 Resp: 12735

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN055746.D (-903) (-)

Ion 57.00 (56.70 to 57.70): VN055746.D (-903) (-)

4.74

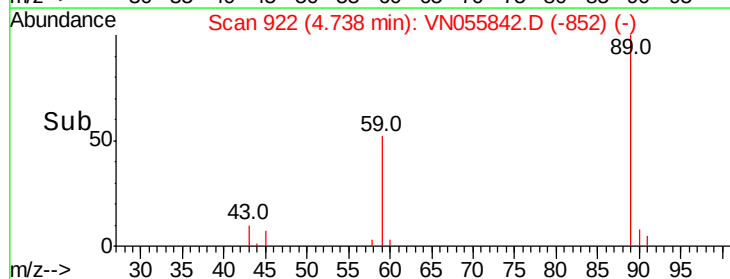
3000

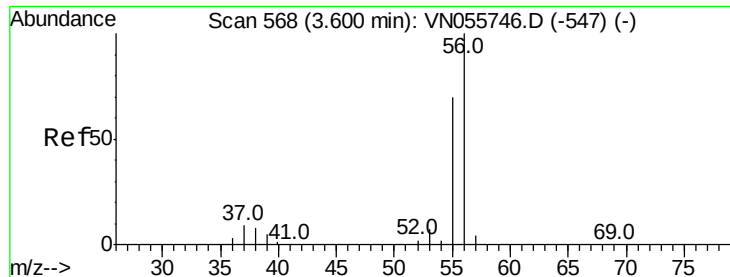
2000

1000

0

Time--> 4.70 4.80





#13

Acrolein

Concen: 0.298 ug/l

RT: 3.59 min Scan# 564

Delta R.T. -0.01 min

Lab File: VN055842.D

Acq: 28 May 2019 10:45

Instrument :

MSVOA_N

ClientSampled :

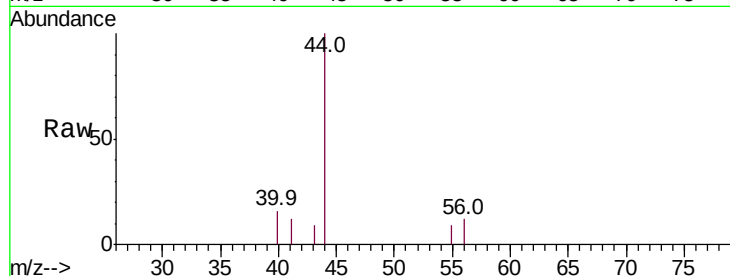
FB-20190522

Tot Ion: 56 Resp: 181

Ion Ratio Lower Upper

56 100

55 129.3 55.4 83.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

250

200

150

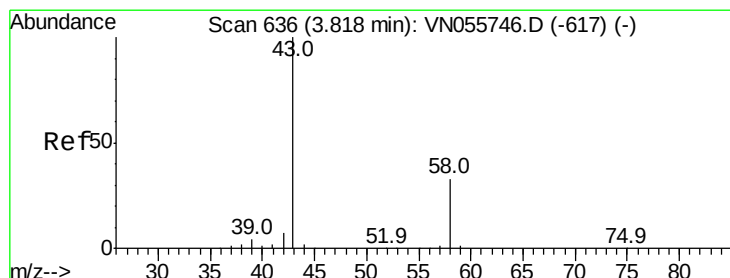
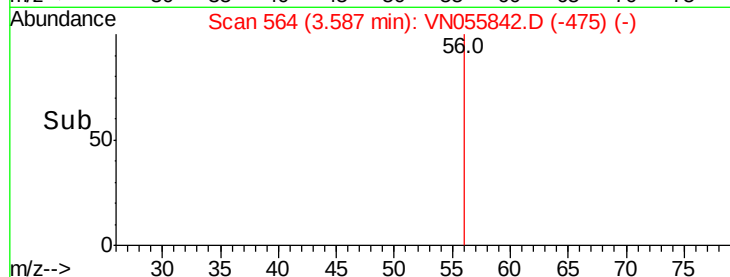
100

50

0

3.57 3.58 3.59 3.60

Time-->



#16

Acetone

Concen: 6.086 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN055842.D

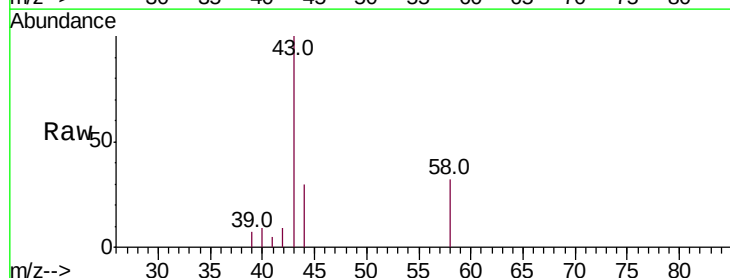
Acq: 28 May 2019 10:45

Tgt Ion: 43 Resp: 11879

Ion Ratio Lower Upper

43 100

58 31.9 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

5000

4000

3000

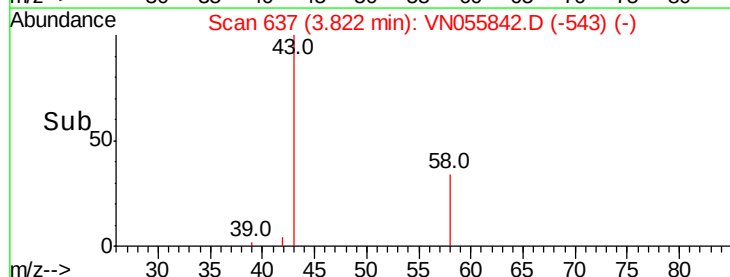
2000

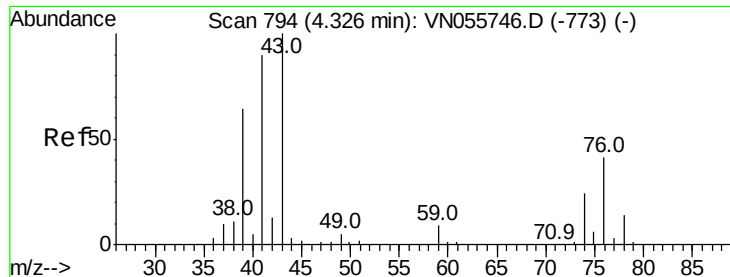
1000

0

3.75 3.80 3.85 3.90

Time-->

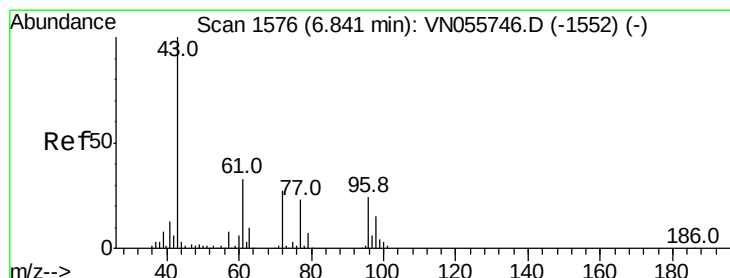
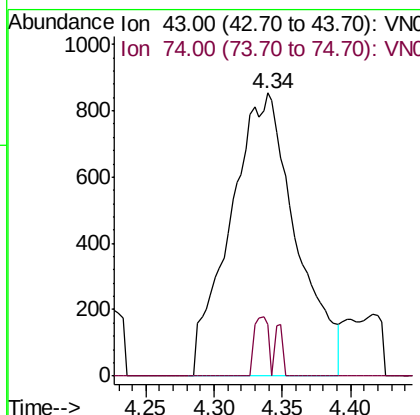
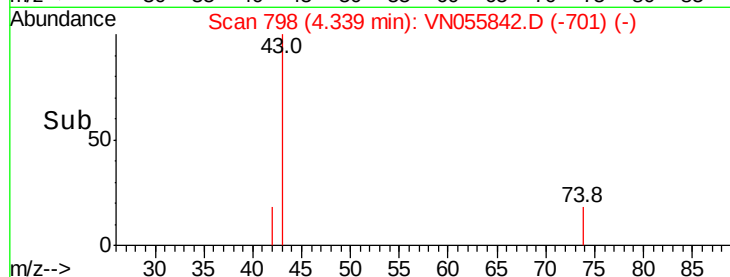
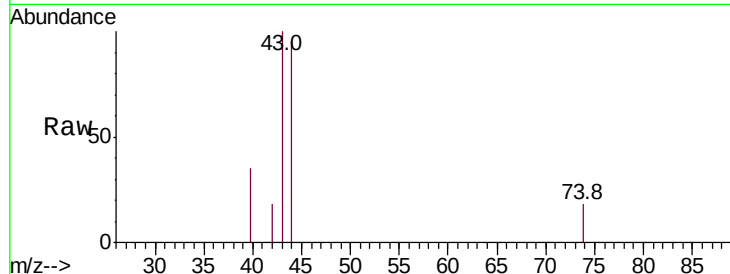




#18
Methyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN055842.D
Acq: 28 May 2019 10:45

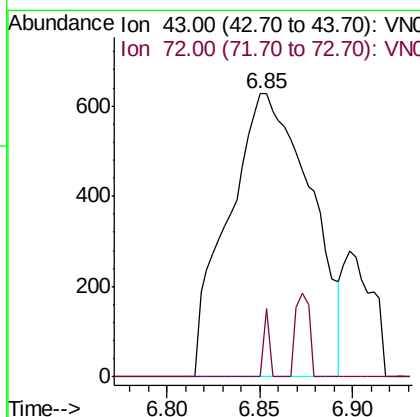
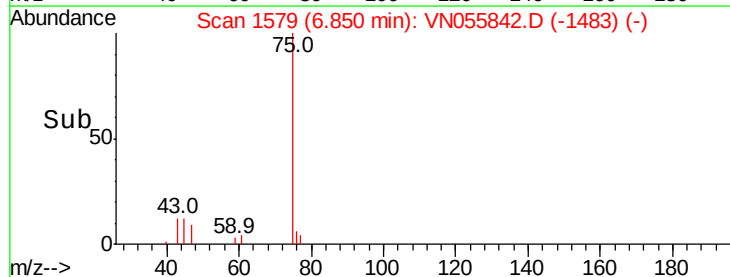
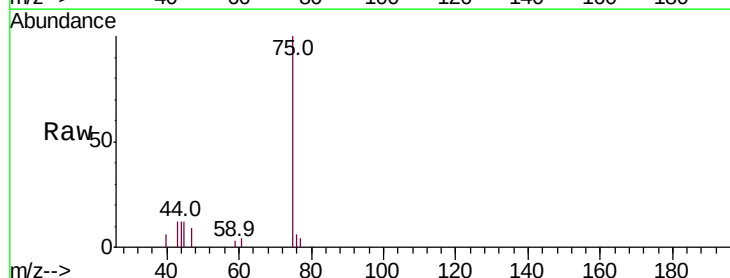
Instrument :
MSVOA_N
ClientSampled :
FB-20190522

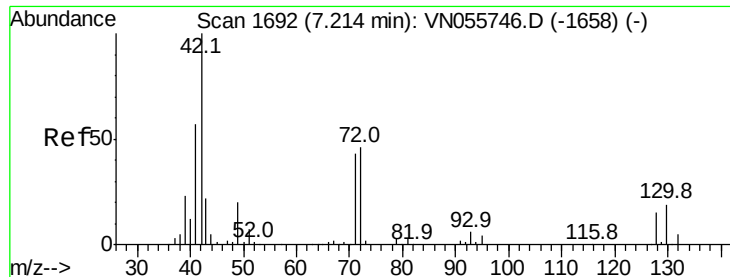
Tot Ion: 43 Resp: 2861
Ion Ratio Lower Upper
43 100
74 4.5 19.3 28.9#



#25
2-Butanone
Concen: 0.709 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN055842.D
Acq: 28 May 2019 10:45

Tgt Ion: 43 Resp: 1934
Ion Ratio Lower Upper
43 100
72 0.0 21.9 32.9#





#29

Tetrahydrofuran

Concen: 0.210 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.00 min

Lab File: VN055842.D

Acq: 28 May 2019 10:45

Instrument :

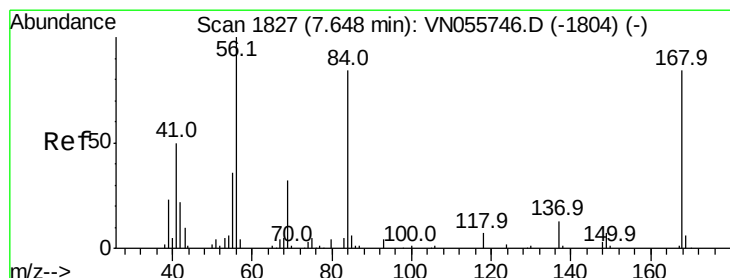
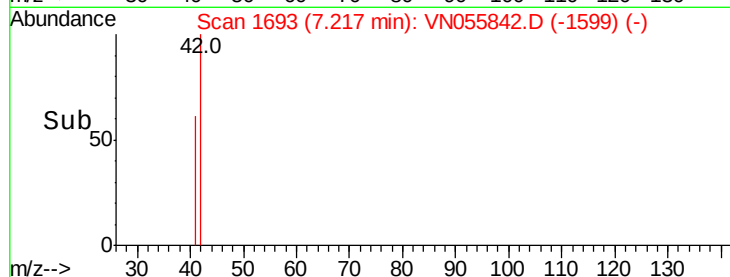
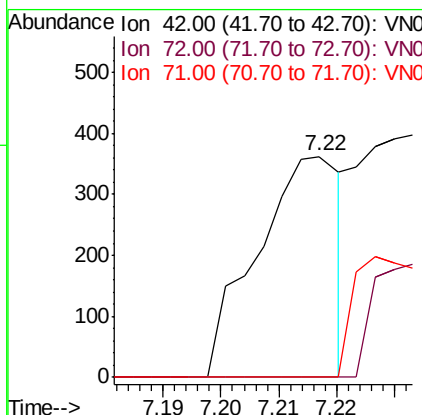
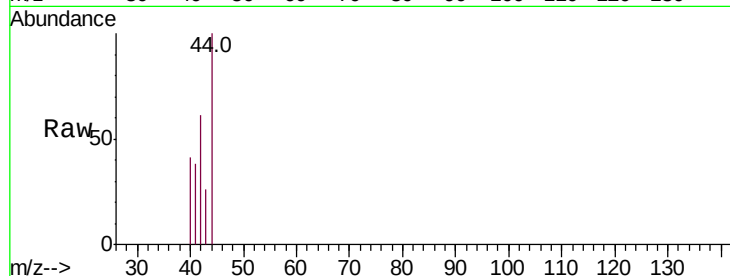
MSVOA_N

ClientSampled :

FB-20190522

Tot Ion: 42 Resp: 363

Ion	Ratio	Lower	Upper
42	100		
72	58.7	35.9	53.9#
71	48.2	34.0	51.0



#31

Cyclohexane

Concen: 0.931 ug/l

RT: 7.66 min Scan# 1831

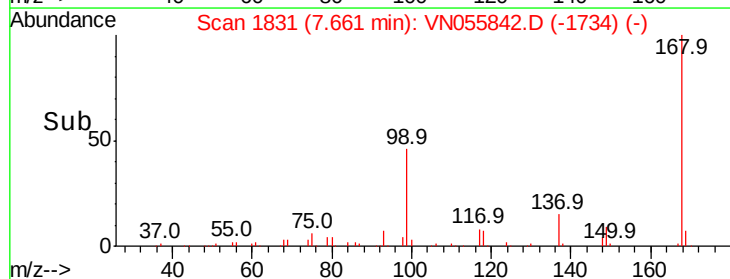
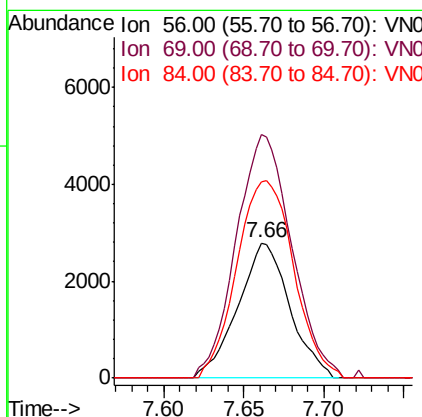
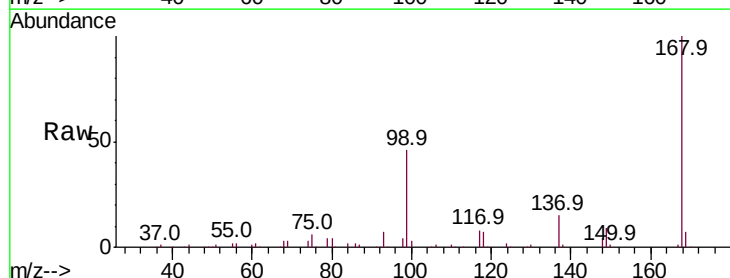
Delta R.T. 0.01 min

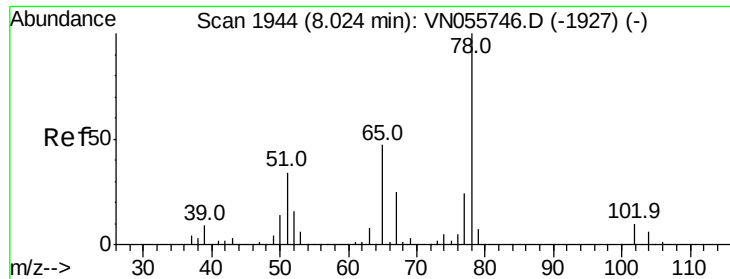
Lab File: VN055842.D

Acq: 28 May 2019 10:45

Tgt Ion: 56 Resp: 6204

Ion	Ratio	Lower	Upper
56	100		
69	180.1	25.6	38.4#
84	145.6	67.4	101.0#

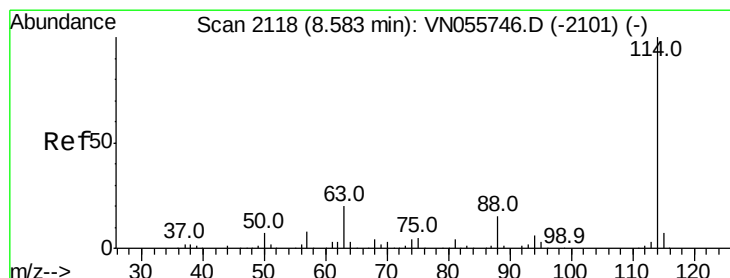
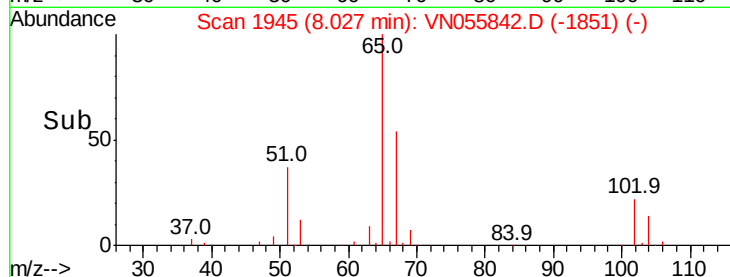
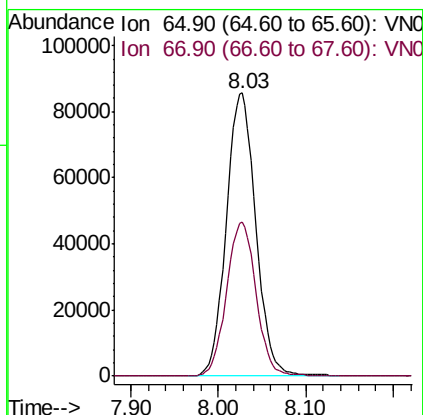
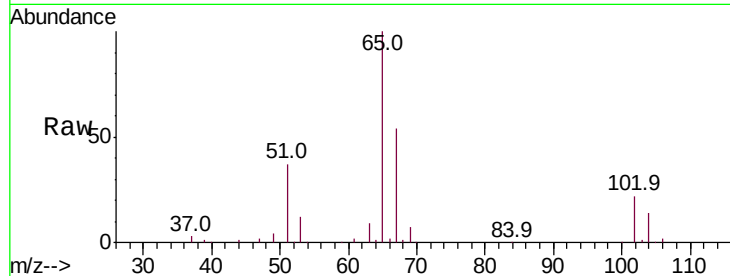




#33
 1,2-Dichloroethane-d4
 Concen: 45.176 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055842.D
 Acq: 28 May 2019 10:45

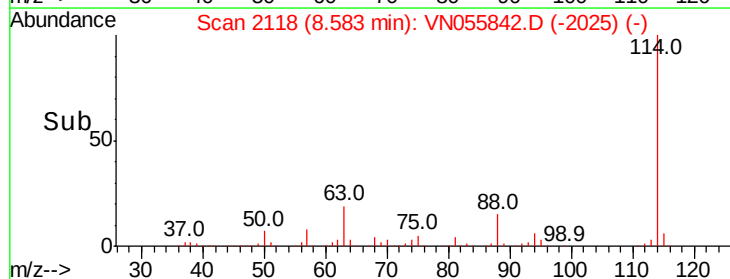
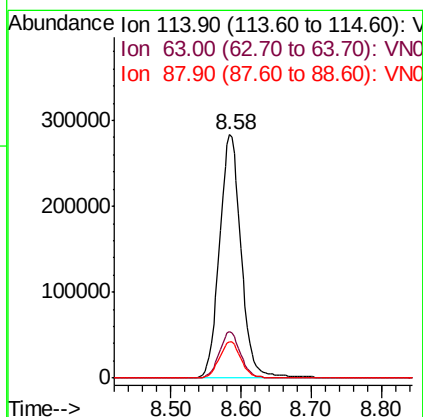
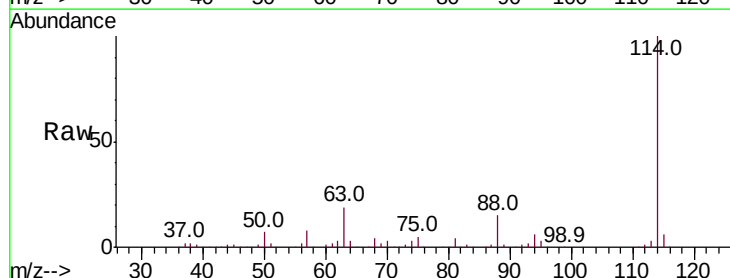
Instrument :
 MSVOA_N
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 FB-20190522

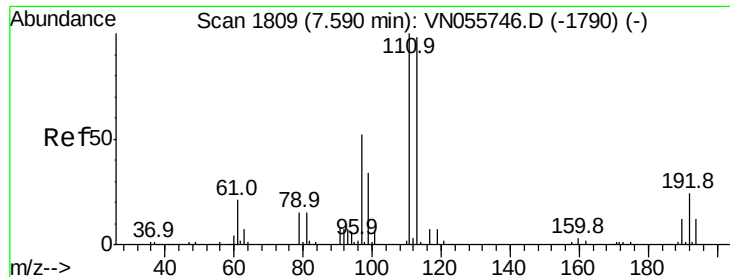
Tot Ion: 65 Resp: 200595
 Ion Ratio Lower Upper
 65 100
 67 54.4 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055842.D
 Acq: 28 May 2019 10:45

Tgt Ion: 114 Resp: 606427
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 39.2
 88 14.9 0.0 31.0

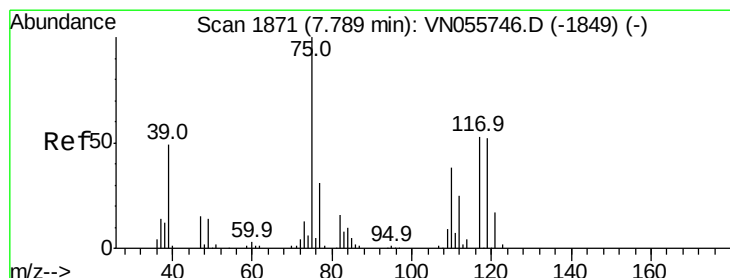
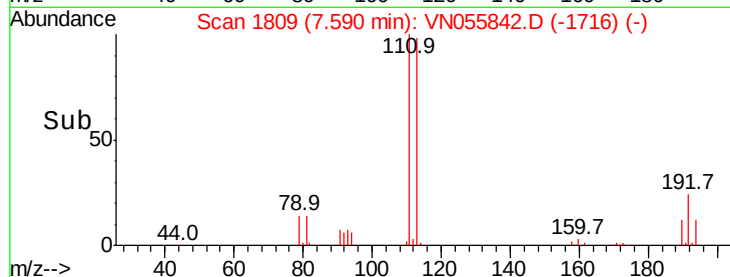
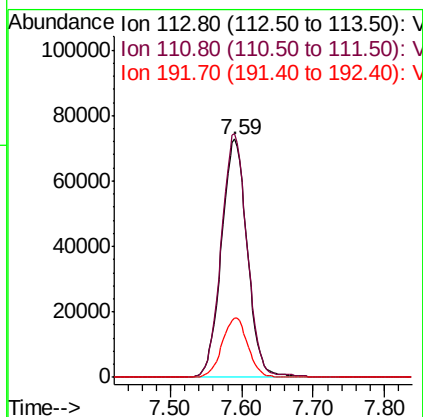
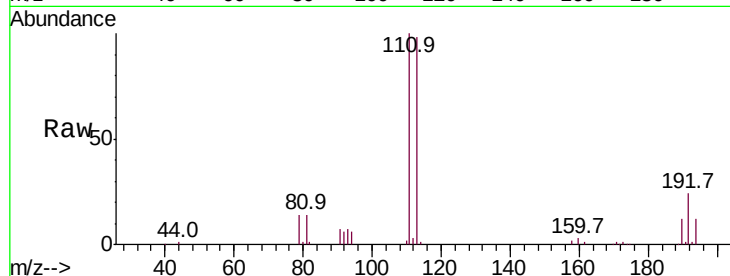




#35
 Dibromofluoromethane
 Concen: 47.924 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055842.D
 Acq: 28 May 2019 10:45

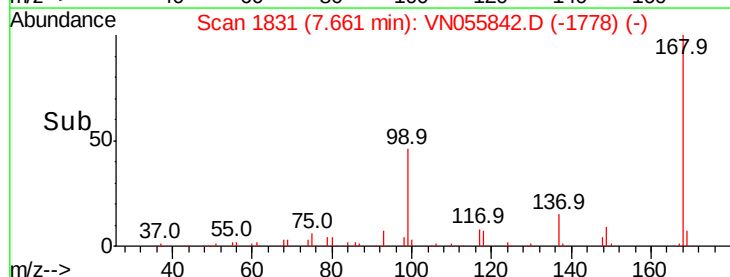
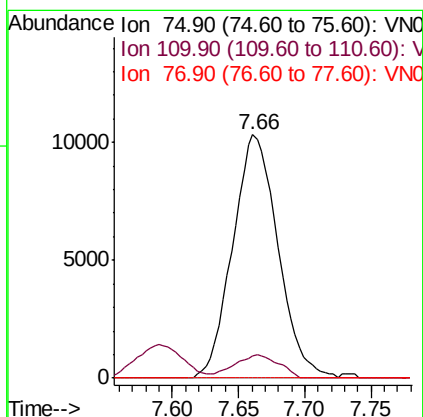
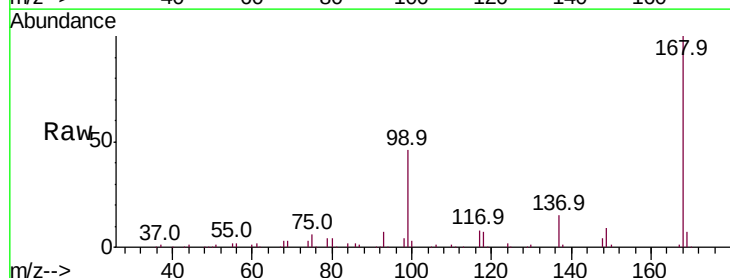
Instrument :
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 FB-20190522

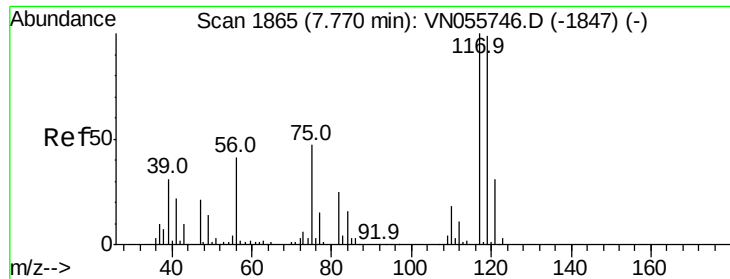
Tot Ion:113 Resp: 183744
 Ion Ratio Lower Upper
 113 100
 111 102.1 81.9 122.9
 192 24.8 19.5 29.3



#36
 1,1-Dichloropropene
 Concen: 4.643 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN055842.D
 Acq: 28 May 2019 10:45

Tgt Ion: 75 Resp: 24535
 Ion Ratio Lower Upper
 75 100
 110 9.4 19.0 57.0#
 77 0.0 25.1 37.7#

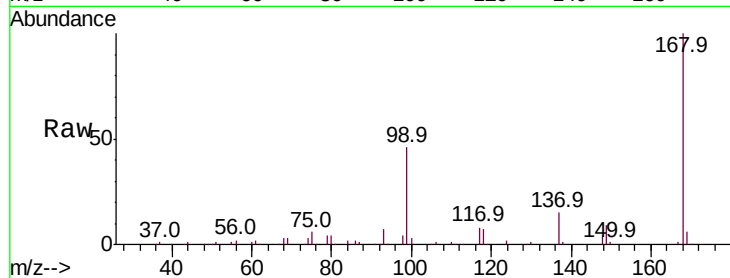




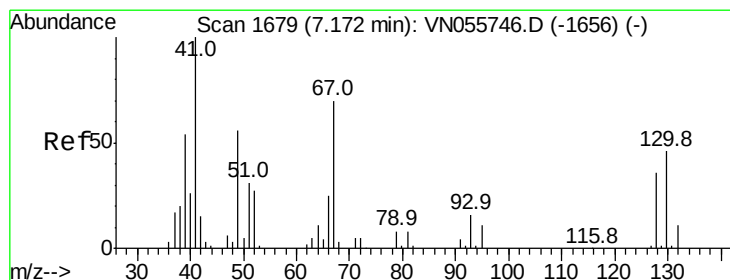
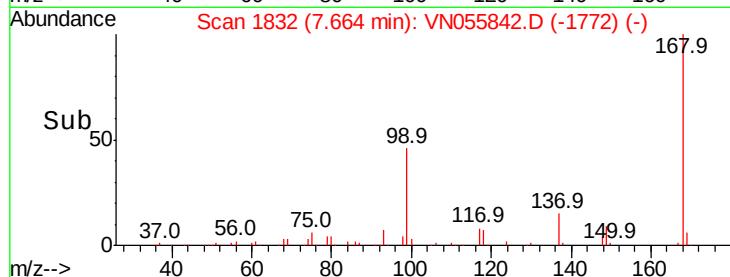
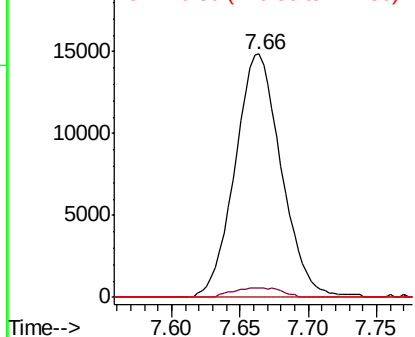
#38
Carbon Tetrachloride
Concen: 6.337 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN055842.D
Acq: 28 May 2019 10:45

Instrument :
MSVOA_N
ClientSampleId :
FB-20190522

Tot Ion:117 Resp: 34882
Ion Ratio Lower Upper
117 100
119 4.0 79.0 118.6#
121 0.0 24.7 37.1#

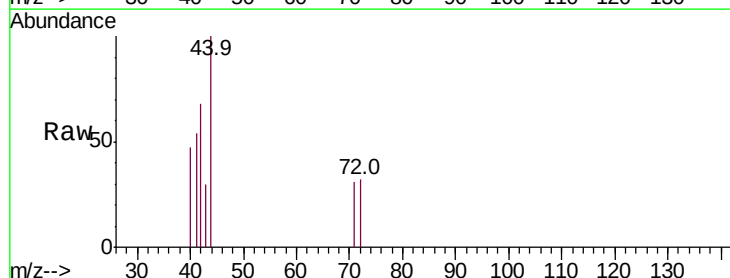


Abundance Ion 116.80 (116.50 to 117.50): V
20000 Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

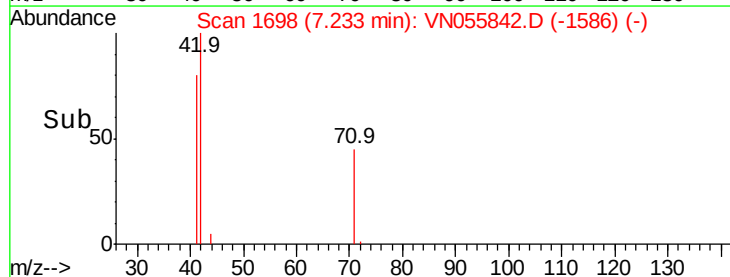
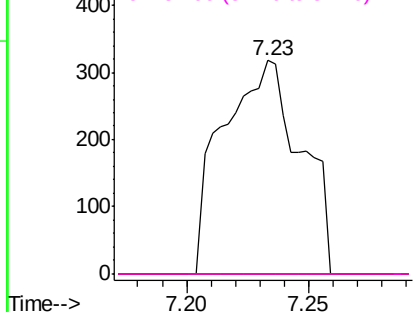


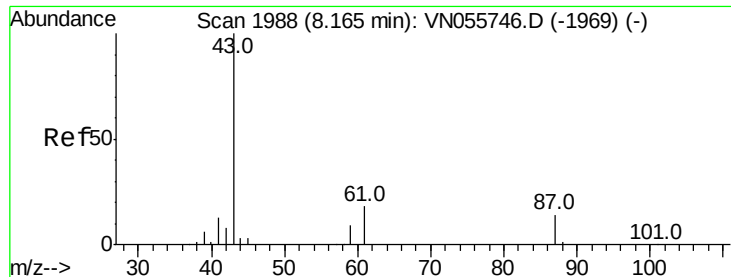
#41
Methacrylonitrile
Concen: 0.272 ug/l
RT: 7.23 min Scan# 1698
Delta R.T. 0.06 min
Lab File: VN055842.D
Acq: 28 May 2019 10:45

Tgt Ion: 41 Resp: 701
Ion Ratio Lower Upper
41 100
39 0.0 45.6 68.4#
67 0.0 67.7 101.5#
52 0.0 26.6 40.0#



Abundance Ion 41.00 (40.70 to 41.70): VNO
500 Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 0.736 ug/l

RT: 8.32 min Scan# 2035

Delta R.T. 0.15 min

Lab File: VN055842.D

Acq: 28 May 2019 10:45

Instrument :

MSVOA_N

ClientSampleId :

FB-20190522

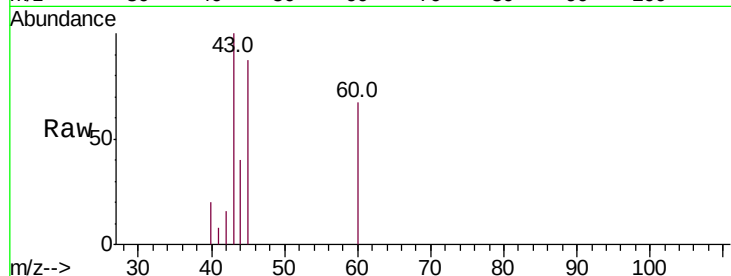
Tot Ion: 43 Resp: 6315

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

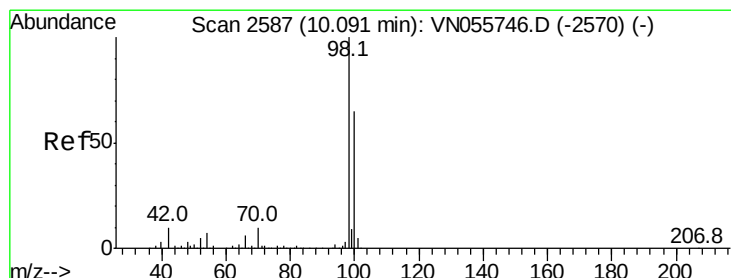
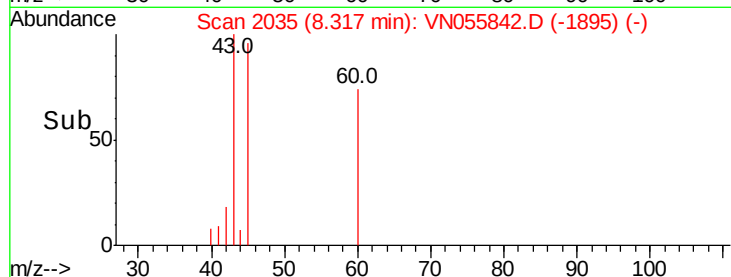
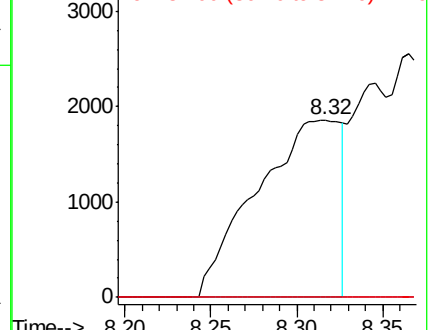
87 0.0 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 61.00 (60.70 to 61.70): VNC

Ion 87.00 (86.70 to 87.70): VNC



#50

Toluene-d8

Concen: 49.526 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055842.D

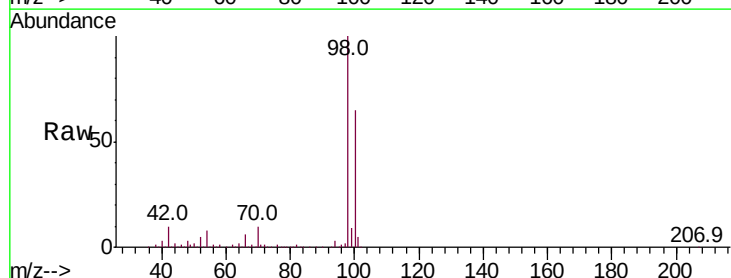
Acq: 28 May 2019 10:45

Tgt Ion: 98 Resp: 728374

Ion Ratio Lower Upper

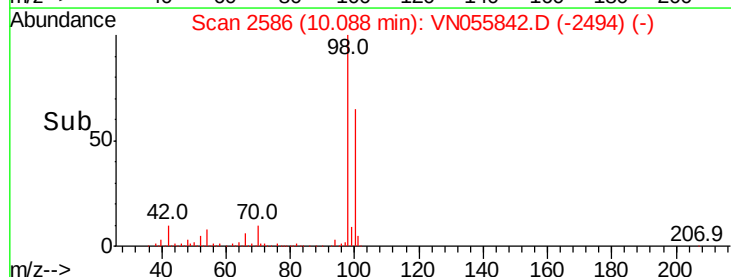
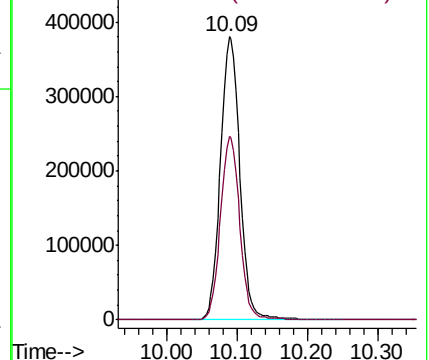
98 100

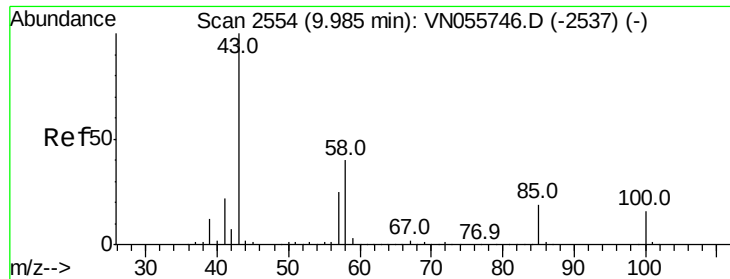
100 64.5 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VNC

Ion 100.00 (99.70 to 100.70): VNC





#51

4-Methyl-2-Pentanone

Concen: 0.246 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN055842.D

Acq: 28 May 2019 10:45

Instrument :

MSVOA_N

ClientSampleId :

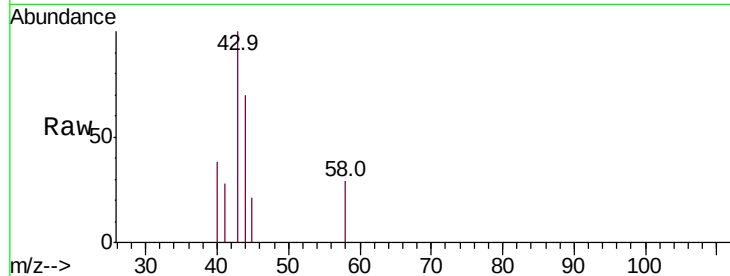
FB-20190522

Tot Ion: 43 Resp: 1247

Ion Ratio Lower Upper

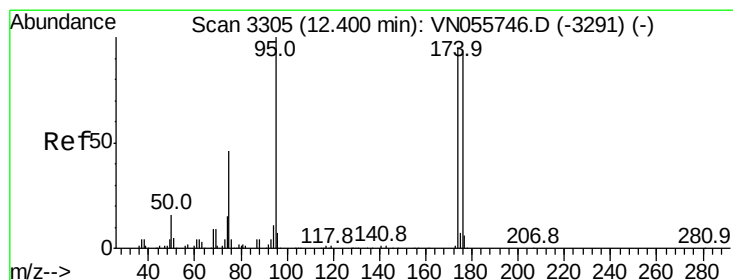
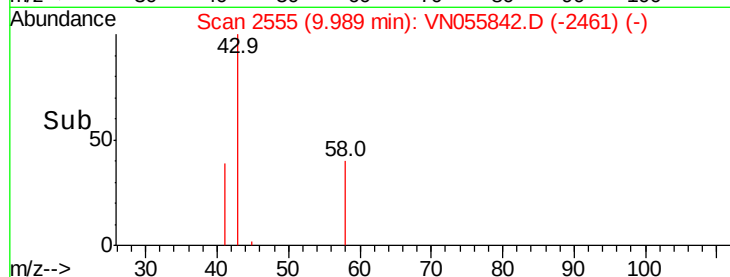
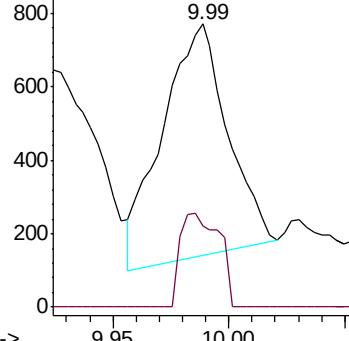
43 100

58 23.7 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 45.495 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055842.D

Acq: 28 May 2019 10:45

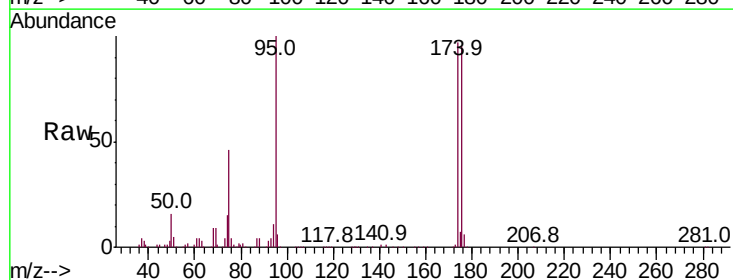
Tgt Ion: 95 Resp: 229423

Ion Ratio Lower Upper

95 100

174 97.1 0.0 191.0

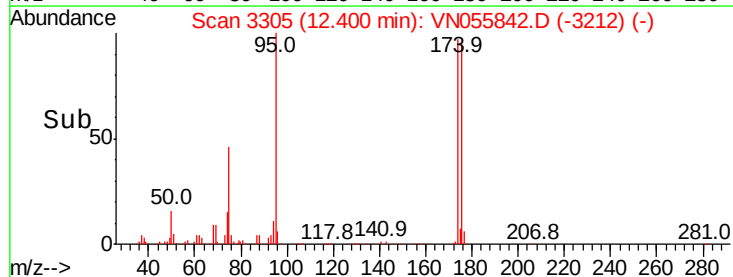
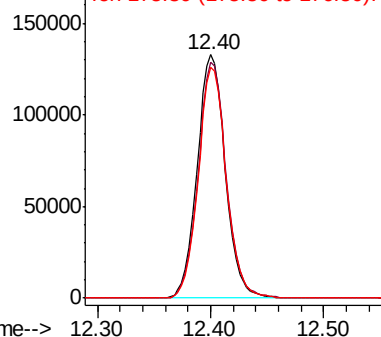
176 94.6 0.0 185.2

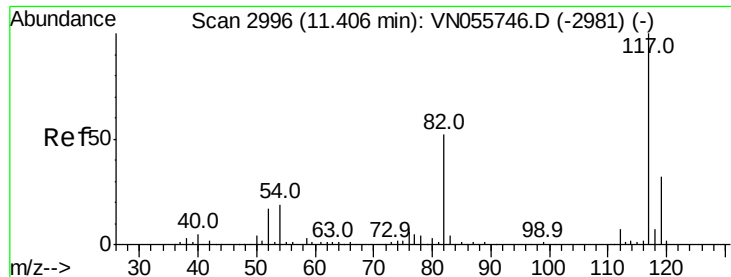


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

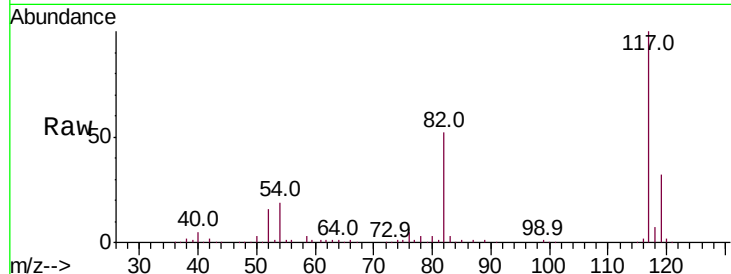




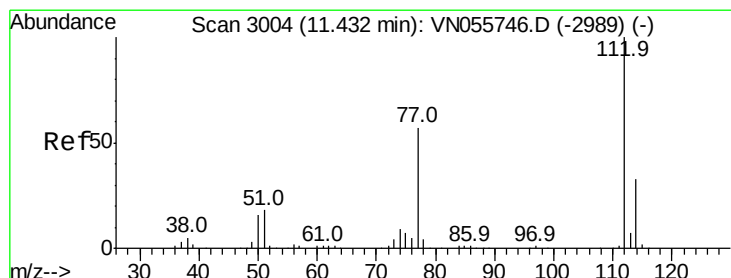
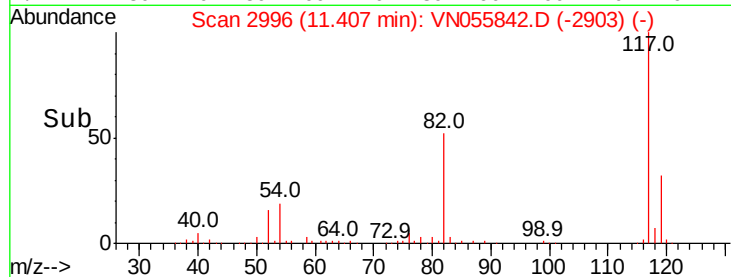
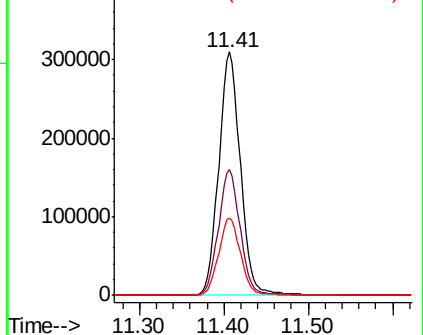
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055842.D
Acq: 28 May 2019 10:45

Instrument :
MSVOA_N
ClientSampled :
FB-20190522

Tot Ion:117 Resp: 552207
Ion Ratio Lower Upper
117 100
82 51.6 41.8 62.8
119 31.9 25.4 38.0

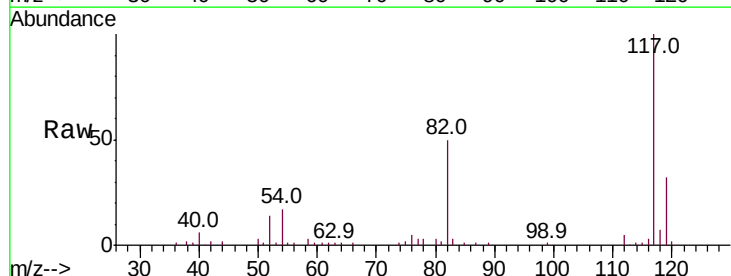


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

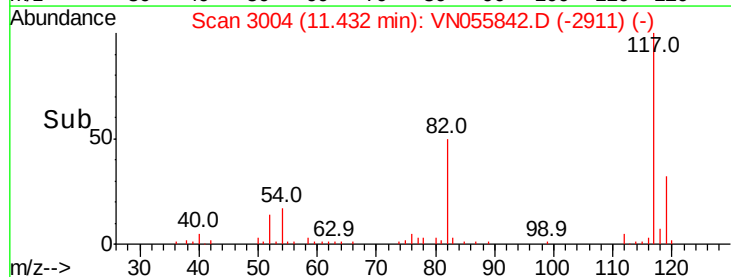
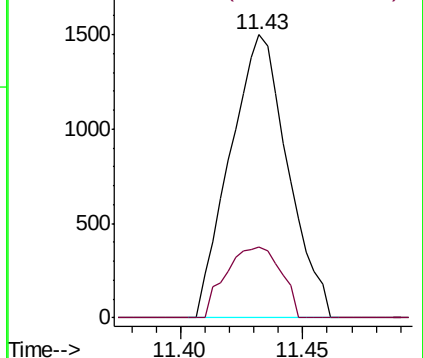


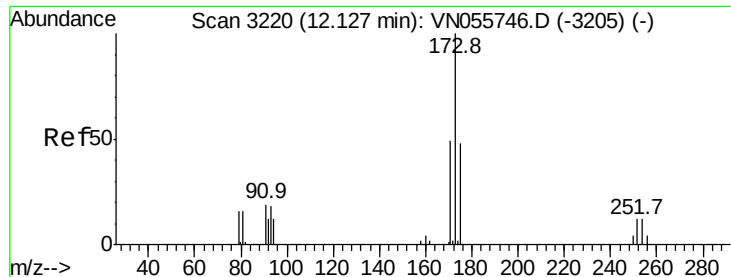
#65
Chlorobenzene
Concen: 0.222 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN055842.D
Acq: 28 May 2019 10:45

Tgt Ion:112 Resp: 2459
Ion Ratio Lower Upper
112 100
114 25.2 26.2 39.4#



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#71

Bromoform

Concen: 0.303 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN055842.D

Acq: 28 May 2019 10:45

Instrument :

MSVOA_N

ClientSampleId :

FB-20190522

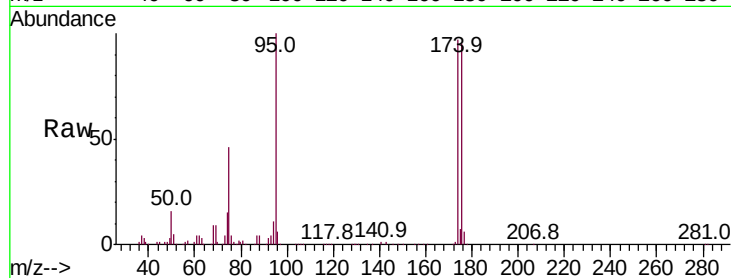
Tot Ion:173 Resp: 1138

Ion Ratio Lower Upper

173 100

175 1219.9 24.3 72.8#

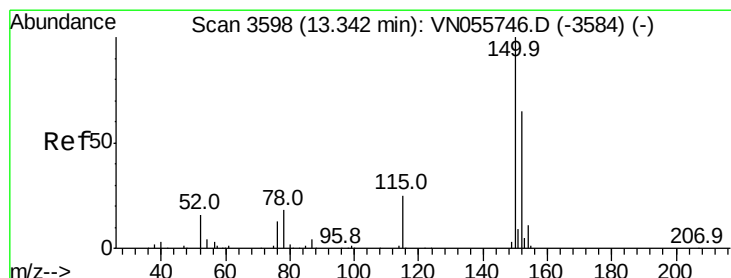
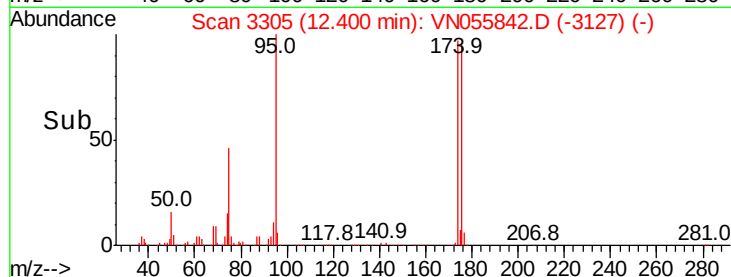
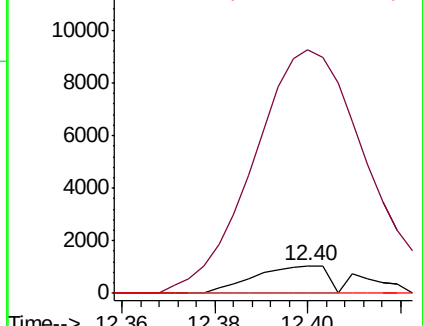
254 0.0 0.0 0.0



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: VN055842.D

Acq: 28 May 2019 10:45

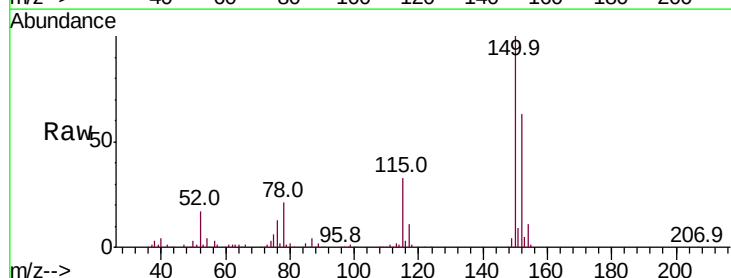
Tgt Ion:152 Resp: 182805

Ion Ratio Lower Upper

152 100

115 51.7 27.0 81.0

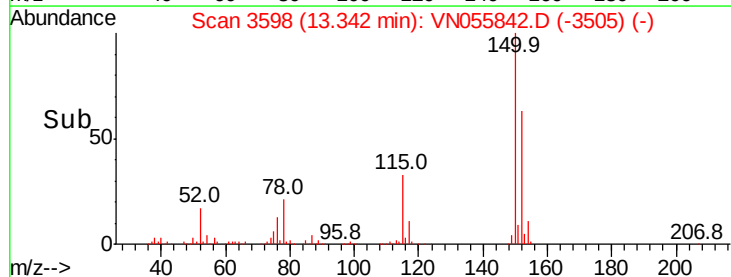
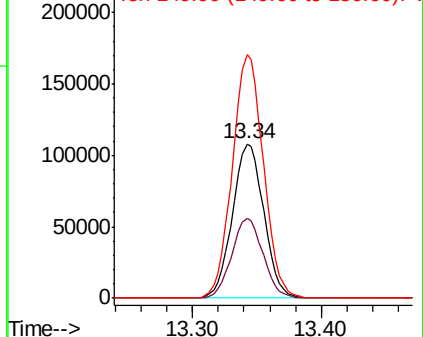
150 156.3 0.0 343.2

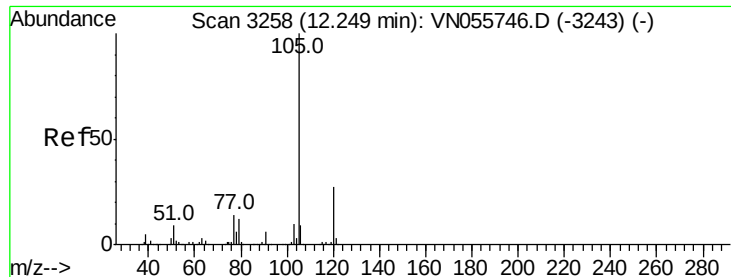


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. 0.16 min

Lab File: VN055842.D

Acq: 28 May 2019 10:45

Instrument :

MSVOA_N

ClientSampleId :

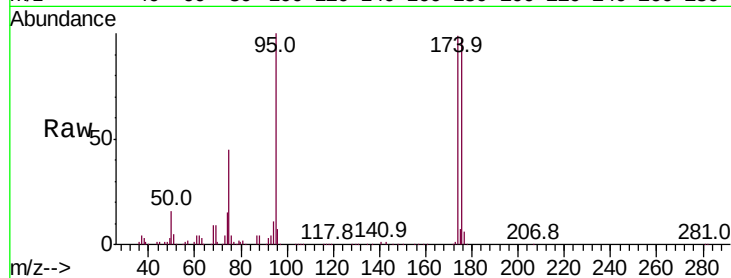
FB-20190522

Tot Ion:105 Resp: 236

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

12.40

250

200

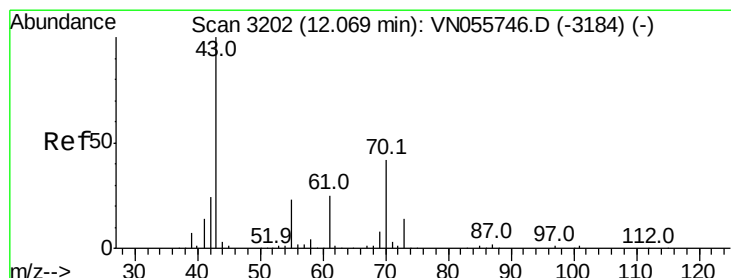
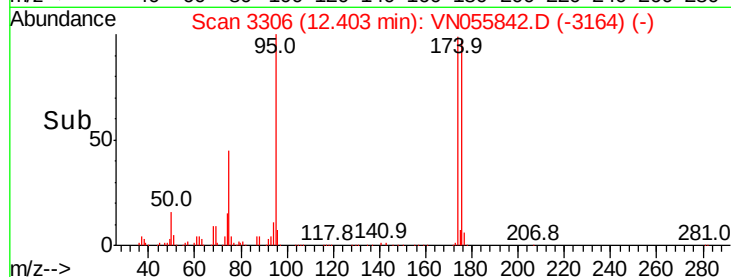
150

100

50

0

Time--> 12.38 12.40 12.42



#74

N-ethyl acetate

Concen: Below Cal

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN055842.D

Acq: 28 May 2019 10:45

Tgt Ion: 43 Resp: 29

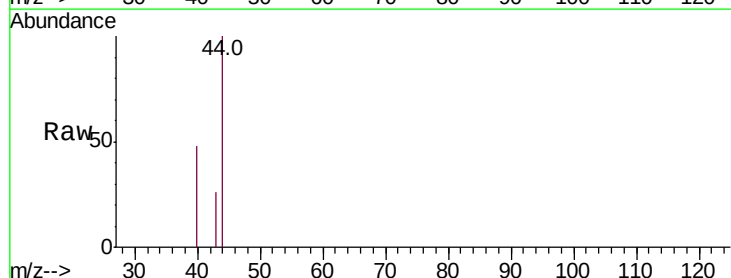
Ion Ratio Lower Upper

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

12.07

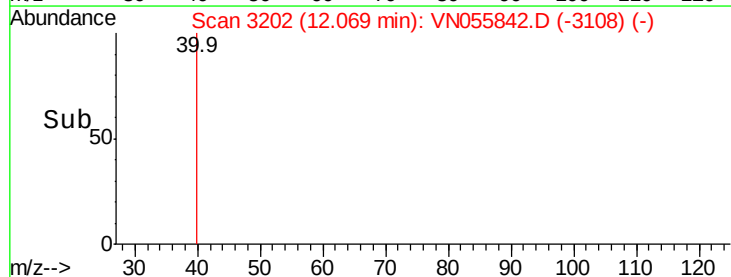
150

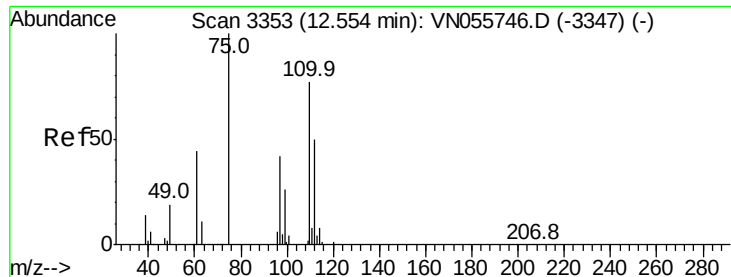
100

50

0

Time--> 12.07 12.07 12.07





#76

1,2,3-Trichloropropane

Concen: 32.140 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055842.D

Acq: 28 May 2019 10:45

Instrument :

MSVOA_N

ClientSampled :

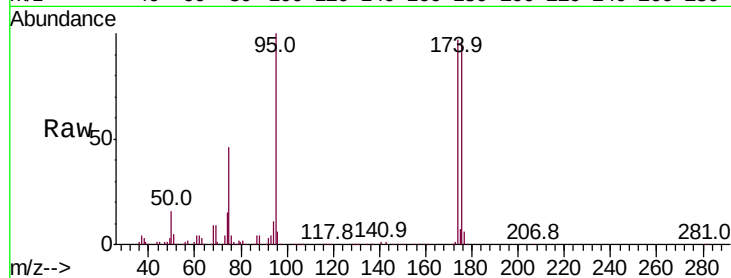
FB-20190522

Tot Ion: 75 Resp: 104707

Ion Ratio Lower Upper

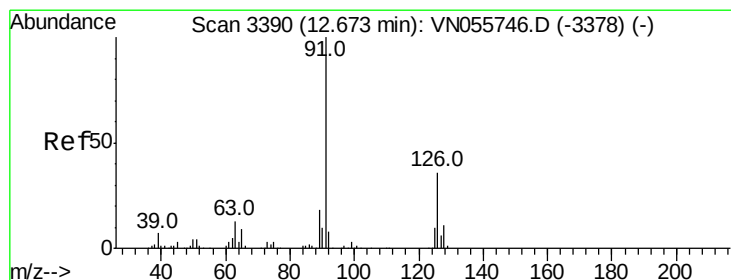
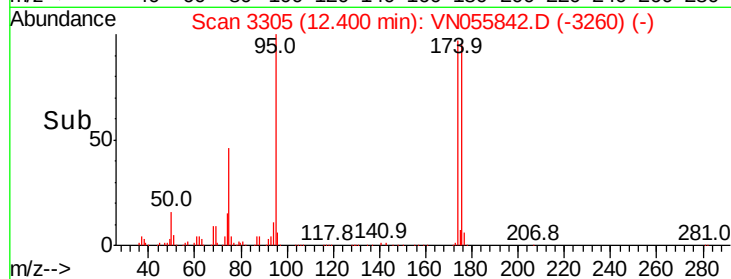
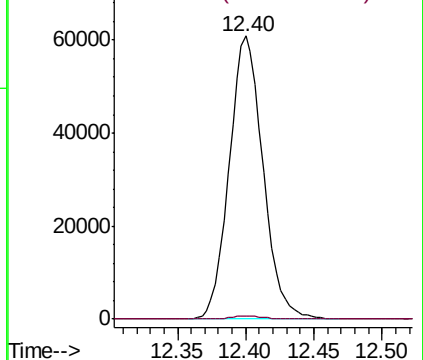
75 100

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: 12.59 min Scan# 3363

Delta R.T. -0.09 min

Lab File: VN055842.D

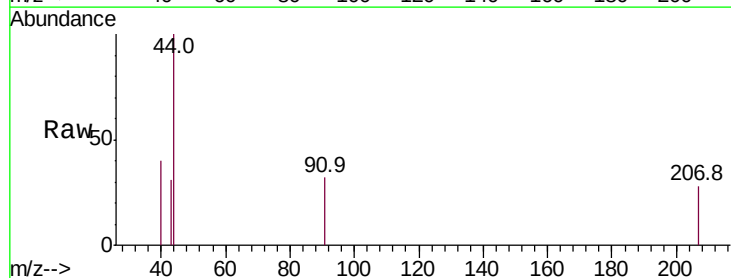
Acq: 28 May 2019 10:45

Tgt Ion: 91 Resp: 132

Ion Ratio Lower Upper

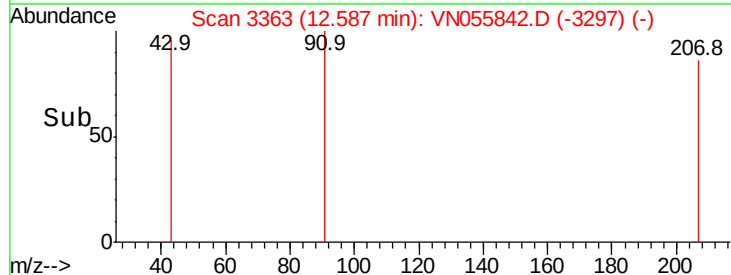
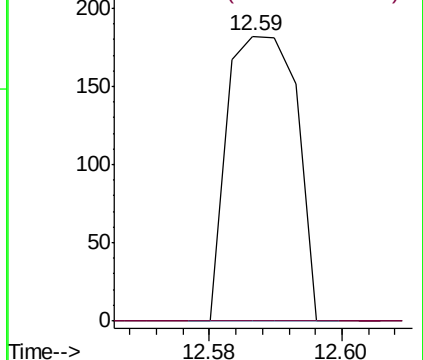
91 100

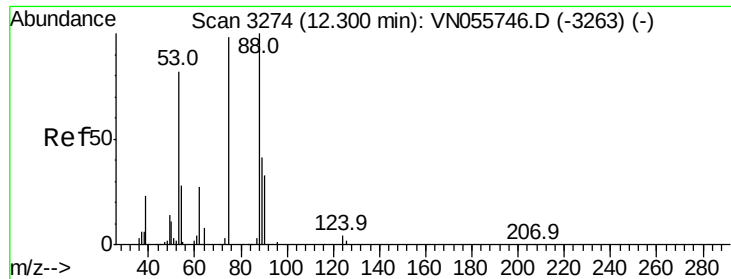
126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 77.066 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055842.D

Acq: 28 May 2019 10:45

Instrument :

MSVOA_N

ClientSampled :

FB-20190522

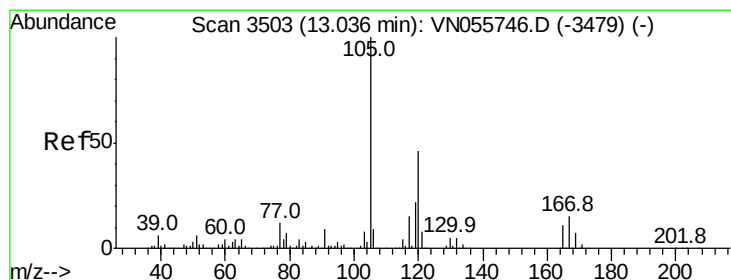
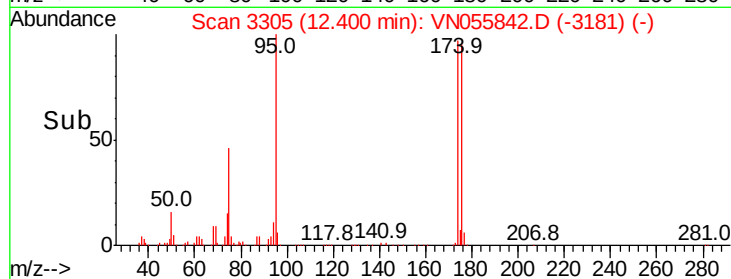
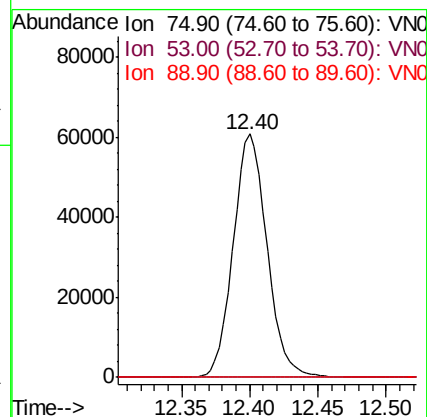
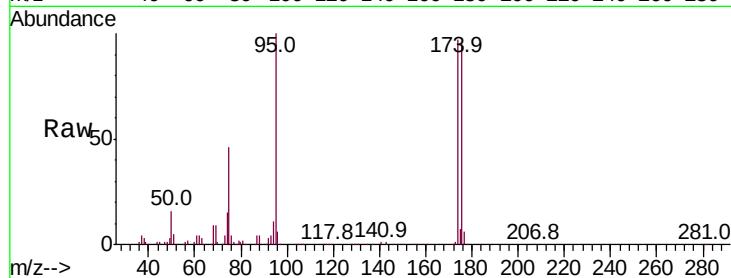
Tot Ion: 75 Resp: 104707

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

89 0.0 36.9 55.3#



#84

1,2,4-Trimethylbenzene

Concen: Below Cal

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN055842.D

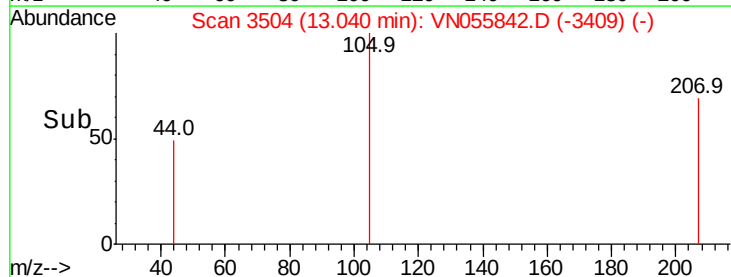
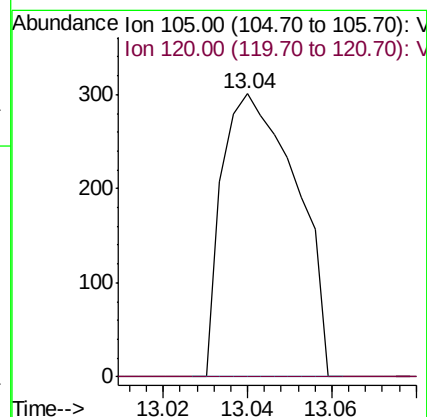
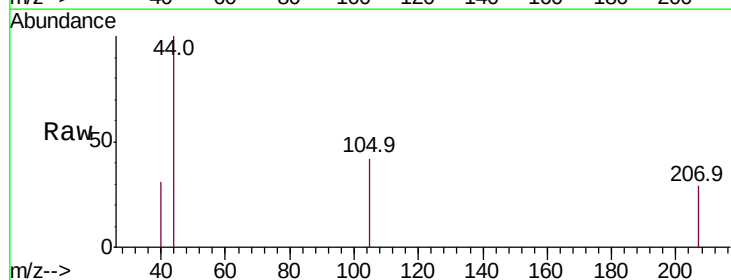
Acq: 28 May 2019 10:45

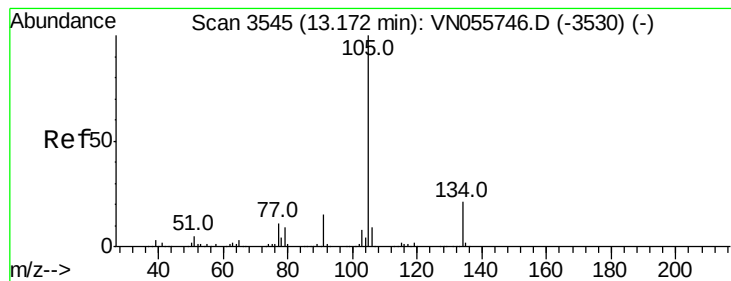
Tgt Ion: 105 Resp: 368

Ion Ratio Lower Upper

105 100

120 0.0 23.0 69.0#





#85

sec-Butylbenzene

Concen: Below Cal

RT: 13.04 min Scan# 3504

Delta R.T. -0.13 min

Lab File: VN055842.D

Acq: 28 May 2019 10:45

Instrument :

MSVOA_N

ClientSampled :

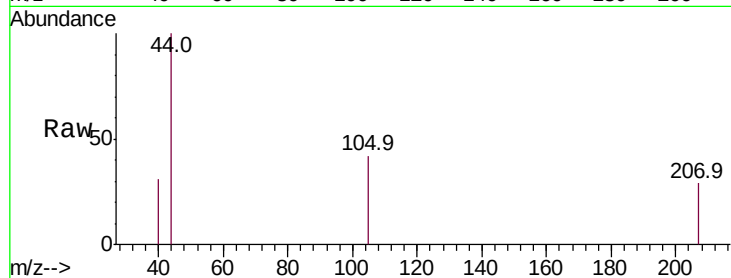
FB-20190522

Tot Ion:105 Resp: 368

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

13.04

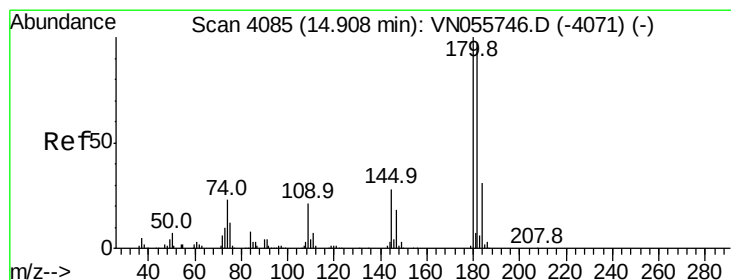
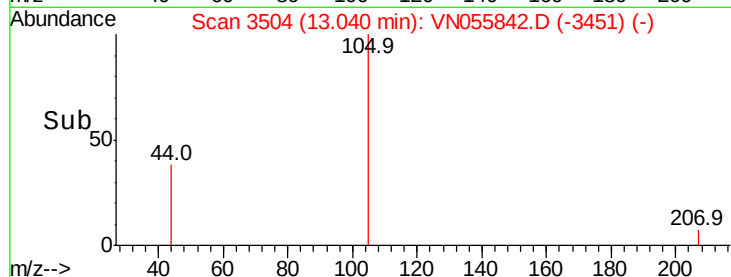
300

200

100

0

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 3.644 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.01 min

Lab File: VN055842.D

Acq: 28 May 2019 10:45

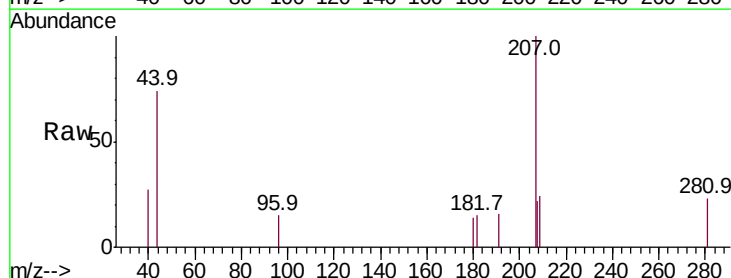
Tgt Ion:180 Resp: 29

Ion Ratio Lower Upper

180 100

182 100.0 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

14.92

200

150

100

50

0

Time-->

