

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110518\
 Data File : VN052174.D
 Acq On : 6 Nov 2018 3:28
 Operator : MD\SY
 Sample : J5805-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 34 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 COMP-SAMPLES(21-25)

Quant Time: Nov 06 05:20:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 05 22:32:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	305150	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	547756	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	538052	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	228892	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	238999	66.05	ug/l	0.00
Spiked Amount			Recovery	=	132.10%	
35) Dibromofluoromethane	7.59	113	207523	61.02	ug/l	0.00
Spiked Amount			Recovery	=	122.04%	
50) Toluene-d8	10.09	98	823363	62.62	ug/l	0.00
Spiked Amount			Recovery	=	125.24%	
62) 4-Bromofluorobenzene	12.40	95	279982	64.87	ug/l	0.00
Spiked Amount			Recovery	=	129.74%	

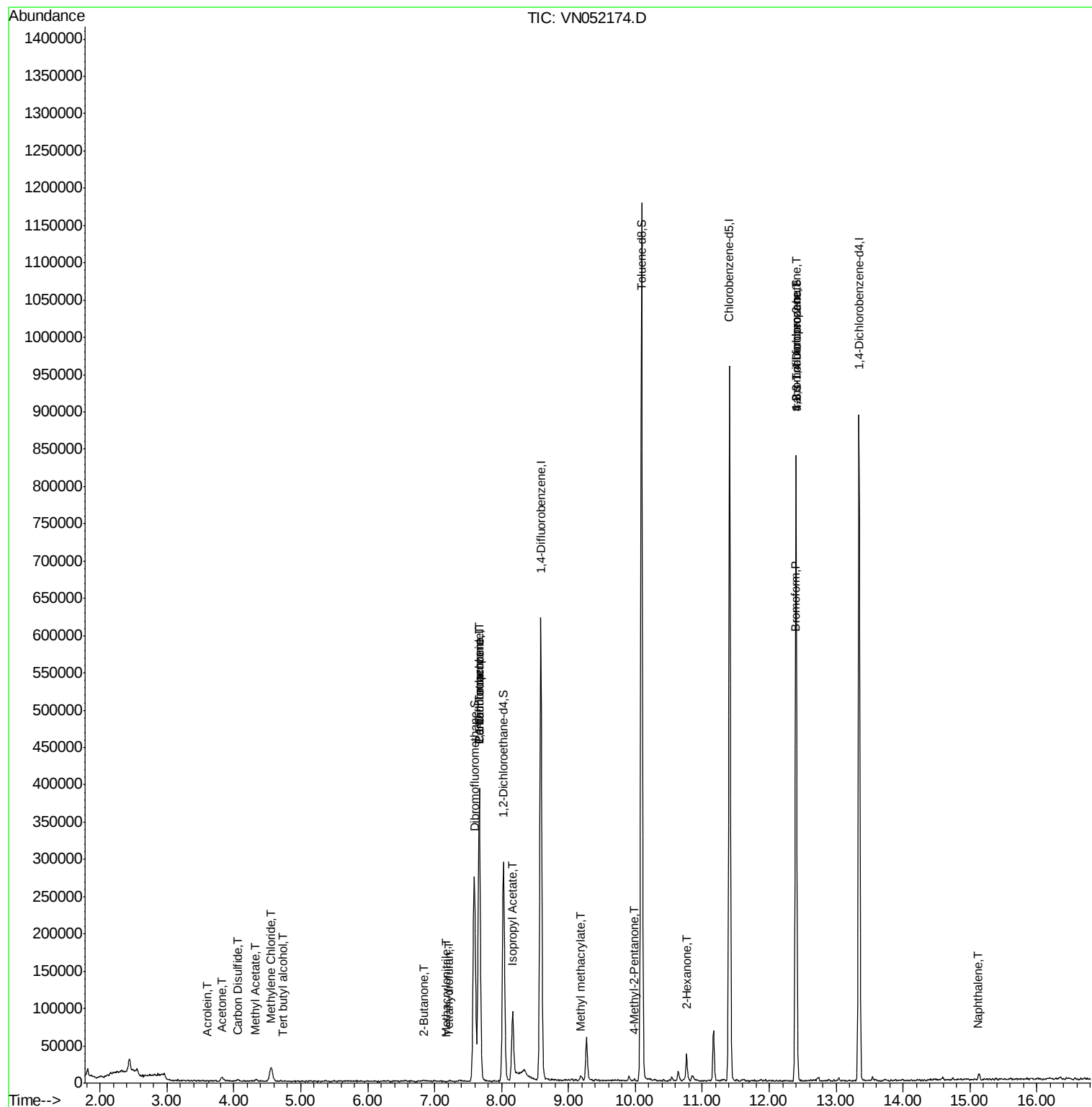
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	147	0.935	ug/l #	1
13) Acrolein	3.61	56	103	32.563	ug/l #	14
16) Acetone	3.82	43	9030	11.015	ug/l	94
17) Carbon Disulfide	4.06	76	2171	0.271	ug/l #	76
18) Methyl Acetate	4.32	43	985	0.378	ug/l #	84
20) Methylene Chloride	4.55	84	14582	4.281	ug/l	97
25) 2-Butanone	6.83	43	646	0.508	ug/l #	87
29) Tetrahydrofuran	7.21	42	210	0.267	ug/l #	47
31) Cyclohexane	7.67	56	7385	Below Cal	#	5
36) 1,1-Dichloropropene	7.67	75	25329	5.227	ug/l #	47
38) Carbon Tetrachloride	7.67	117	32304	6.668	ug/l #	17
41) Methacrylonitrile	7.17	41	102	1.454	ug/l #	1
43) Isopropyl Acetate	8.17	43	116352	21.044	ug/l #	87
48) Methyl methacrylate	9.18	41	2998	1.127	ug/l #	19
49) 1,4-Dioxane	9.13	88	65	Below Cal	#	21
51) 4-Methyl-2-Pentanone	9.98	43	1252	0.429	ug/l	88
59) 2-Hexanone	10.76	43	5540	2.725	ug/l	64
71) Bromoform	12.38	173	146	2.851	ug/l #	28
76) 1,2,3-Trichloropropane	12.40	75	145135	40.291	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	145135	144.269	ug/l #	10
95) Naphthalene	15.13	128	7457	1.064	ug/l #	92

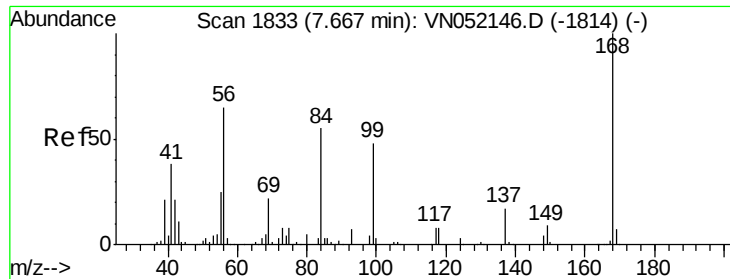
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Nov 05 22:32:25 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052174.D

Acq: 6 Nov 2018 3:28

Instrument :

MSVOA_N

ClientSampleId :

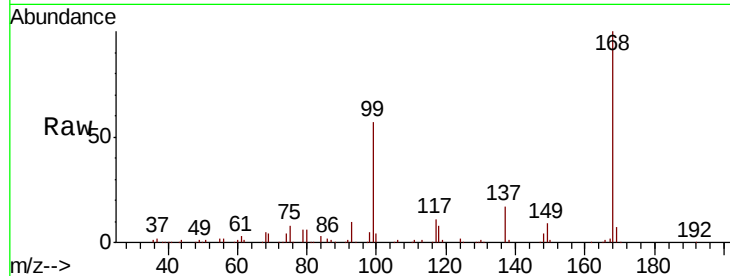
COMP-SAMPLES(21-25)

Tot Ion:168 Resp: 305150

Ion Ratio Lower Upper

168 100

99 57.0 45.4 68.2



Abundance Ion 167.90 (167.60 to 168.60): VN052174.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN052174.D (-1740) (-)

7.67

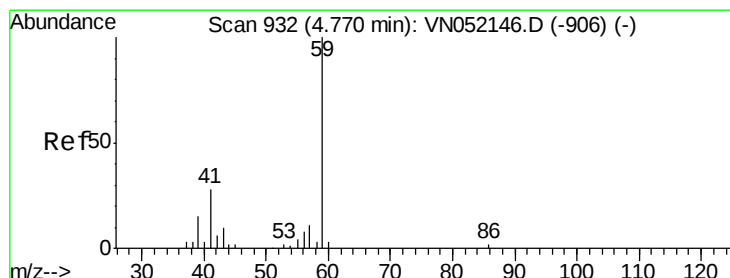
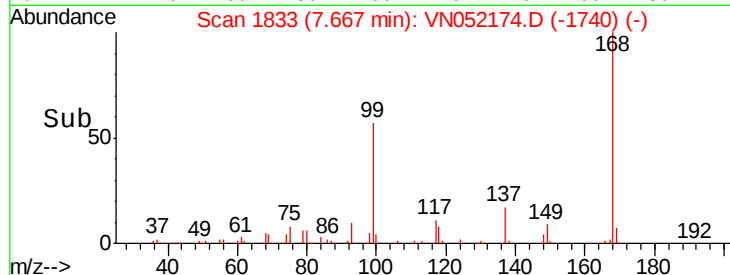
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.935 ug/l

RT: 4.73 min Scan# 920

Delta R.T. -0.04 min

Lab File: VN052174.D

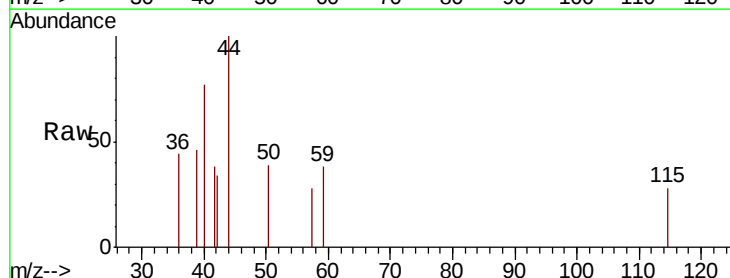
Acq: 6 Nov 2018 3:28

Tgt Ion: 59 Resp: 147

Ion Ratio Lower Upper

59 100

57 42.2 5.7 8.5#



Abundance Ion 59.00 (58.70 to 59.70): VN052174.D (-839) (-)

Ion 57.00 (56.70 to 57.70): VN052174.D (-839) (-)

4.73

250

200

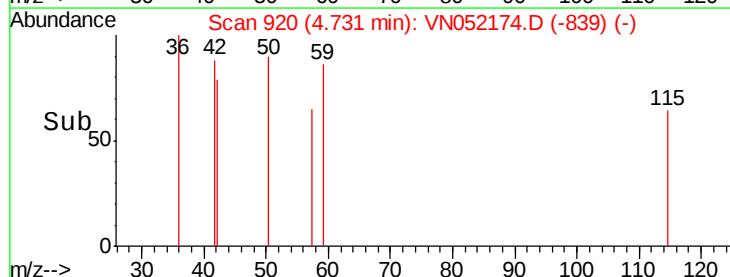
150

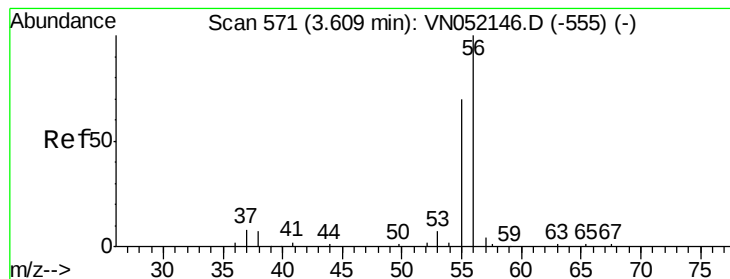
100

50

0

Time-->





#13

Acrolein

Concen: 32.563 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN052174.D

Acq: 6 Nov 2018 3:28

Instrument :

MSVOA_N

ClientSampleId :

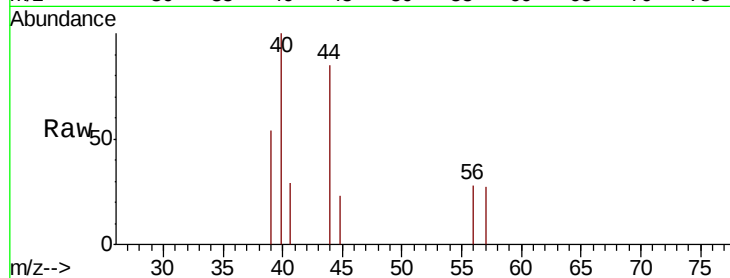
COMP-SAMPLES(21-25)

Tot Ion: 56 Resp: 103

Ion Ratio Lower Upper

56 100

55 0.0 56.6 84.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.61

200

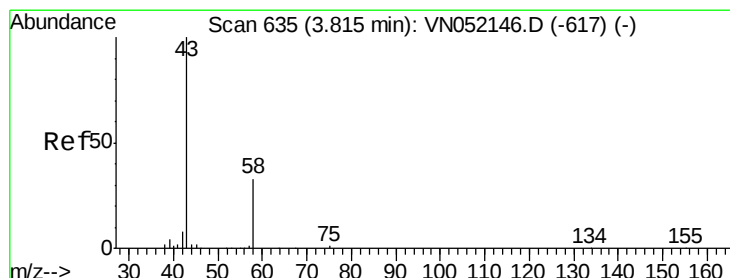
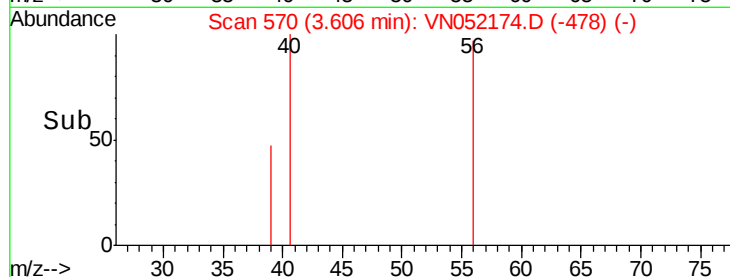
150

100

50

0

Time-->



#16

Acetone

Concen: 11.015 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052174.D

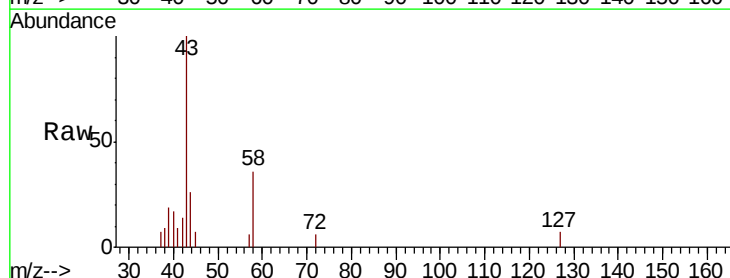
Acq: 6 Nov 2018 3:28

Tgt Ion: 43 Resp: 9030

Ion Ratio Lower Upper

43 100

58 36.1 26.2 39.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

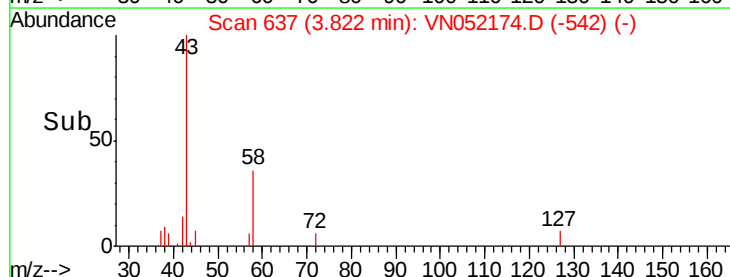
3000

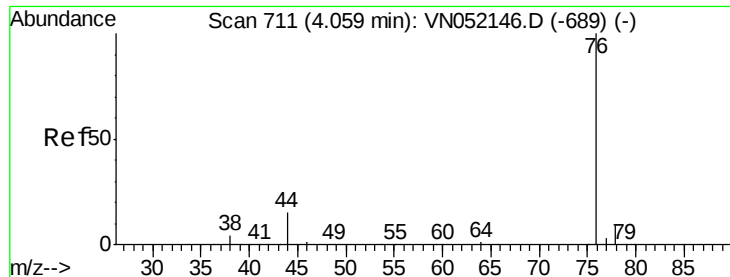
2000

1000

0

Time-->

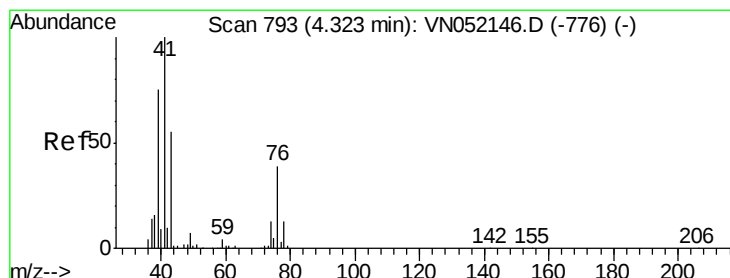
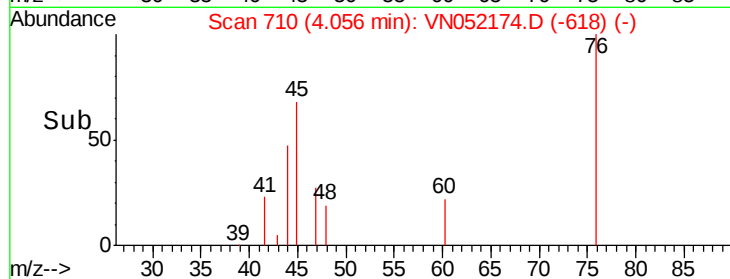
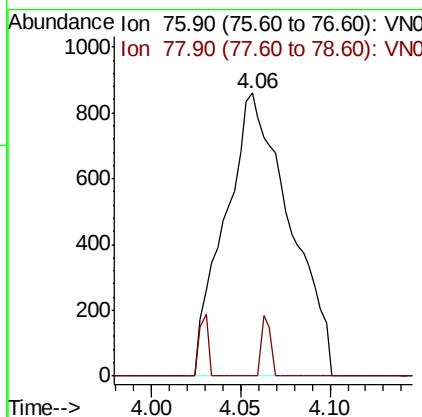
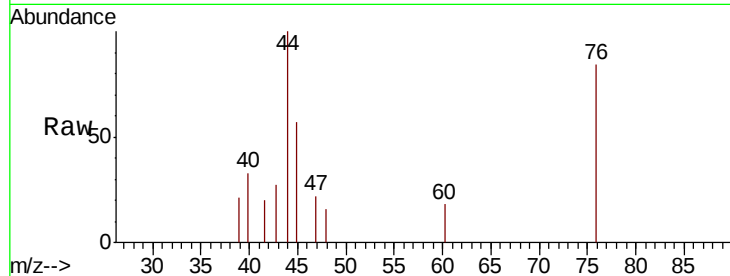




#17
Carbon Disulfide
Concen: 0.271 ug/l
RT: 4.06 min Scan# 710
Delta R.T. -0.00 min
Lab File: VN052174.D
Acq: 6 Nov 2018 3:28

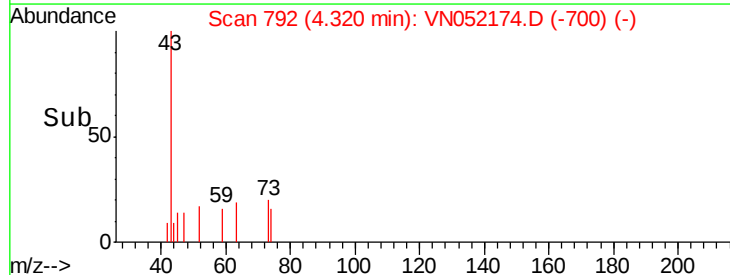
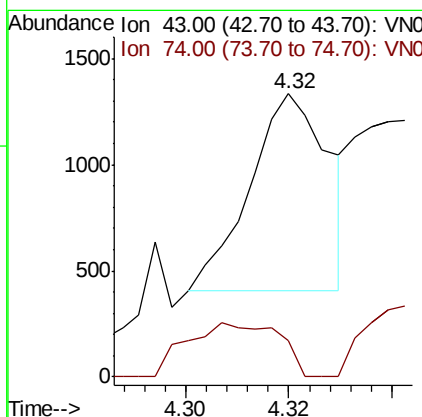
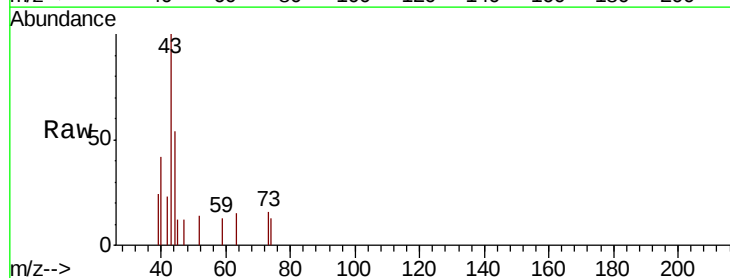
Instrument :
MSVOA_N
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COMP-SAMPLES(21-25)

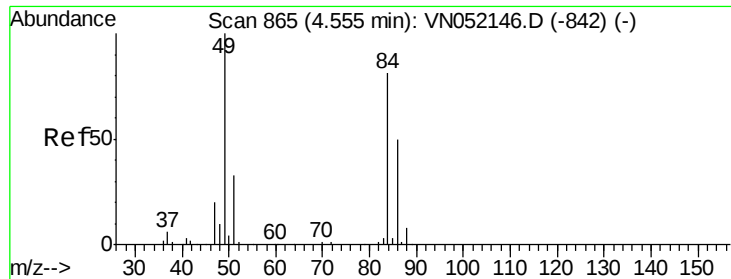
Tot Ion: 76 Resp: 2171
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#



#18
Methyl Acetate
Concen: 0.378 ug/l
RT: 4.32 min Scan# 792
Delta R.T. -0.00 min
Lab File: VN052174.D
Acq: 6 Nov 2018 3:28

Tgt Ion: 43 Resp: 985
Ion Ratio Lower Upper
43 100
74 32.1 19.3 28.9#

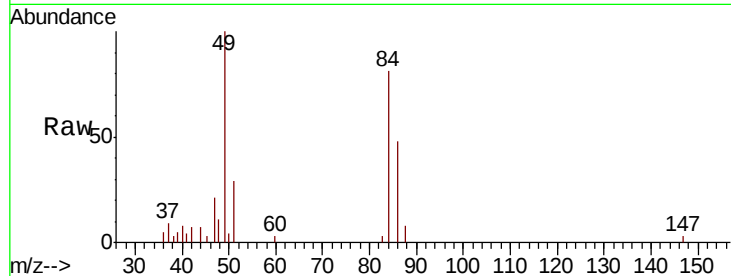




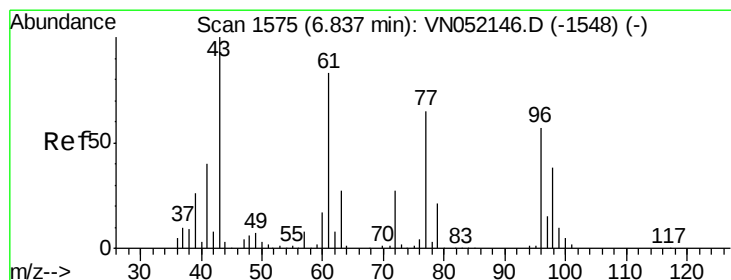
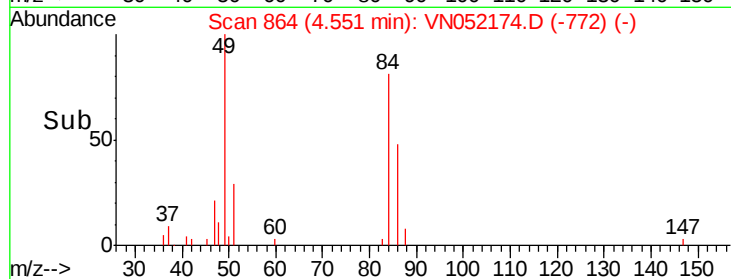
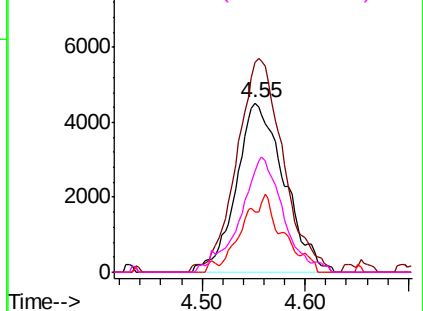
#20
Methvlene Chloride
Concen: 4.281 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN052174.D
Acq: 6 Nov 2018 3:28

Instrument :
MSVOA_N
ClientSampleId :
COMP-SAMPLES(21-25)

Tot Ion:	84	Resp:	14582
Ion	Ratio	Lower	Upper
84	100		
49	123.9	98.4	147.6
51	35.7	32.5	48.7
86	59.5	49.7	74.5

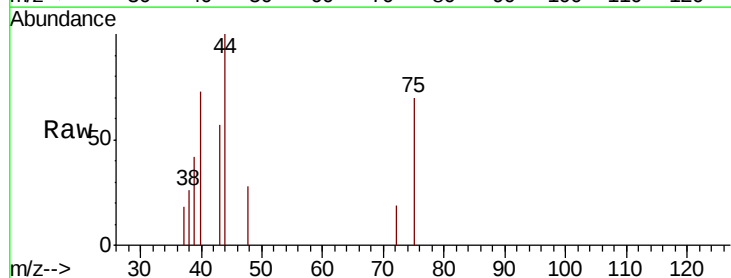


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

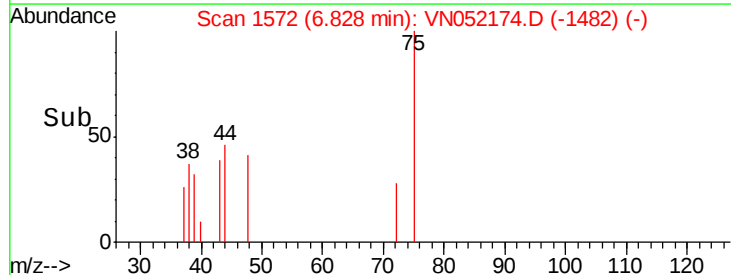
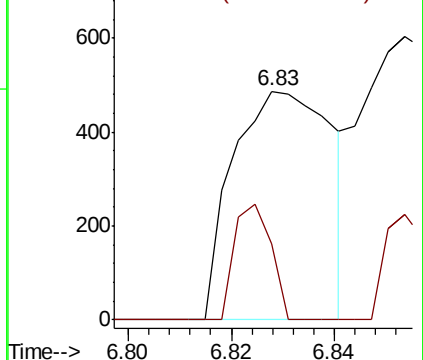


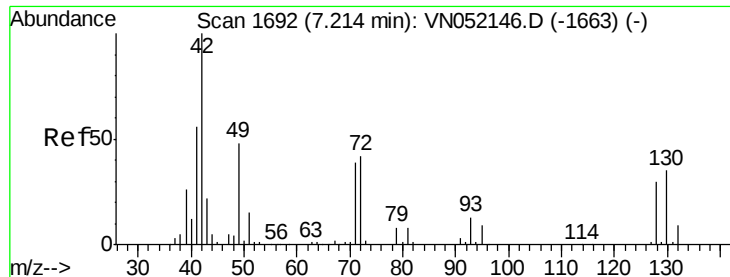
#25
2-Butanone
Concen: 0.508 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. -0.01 min
Lab File: VN052174.D
Acq: 6 Nov 2018 3:28

Tgt Ion:	43	Resp:	646
Ion	Ratio	Lower	Upper
43	100		
72	33.5	21.4	32.2#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 72.00 (71.70 to 72.70): VNO





#29

Tetrahydrofuran

Concen: 0.267 ug/l

RT: 7.21 min Scan# 1690

Delta R.T. -0.01 min

Lab File: VN052174.D

Acq: 6 Nov 2018 3:28

Instrument :

MSVOA_N

ClientSampleId :

COMP-SAMPLES(21-25)

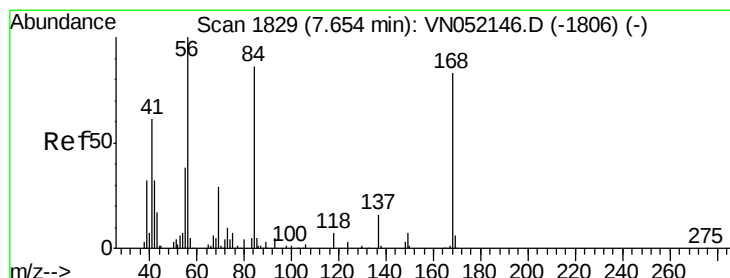
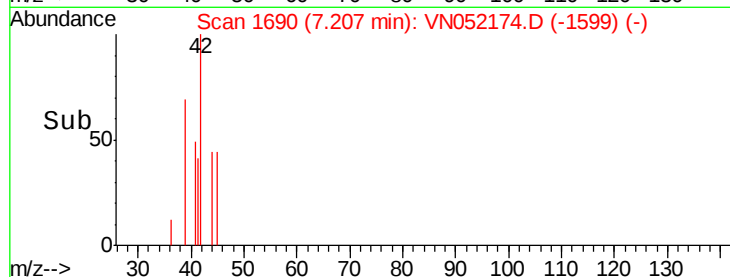
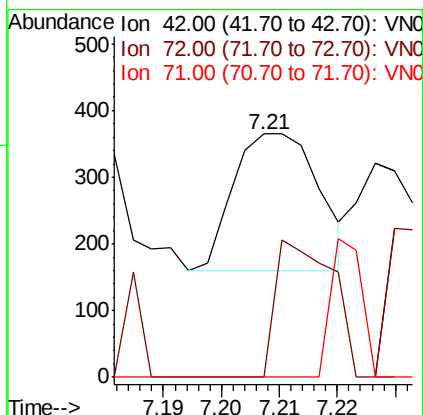
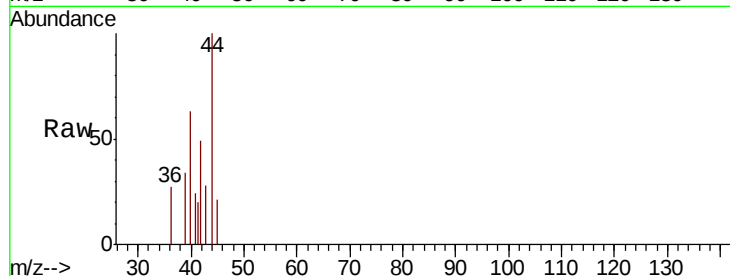
Tot Ion: 42 Resp: 210

Ion Ratio Lower Upper

42 100

72 66.7 32.3 48.5#

71 0.0 31.0 46.6#



#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN052174.D

Acq: 6 Nov 2018 3:28

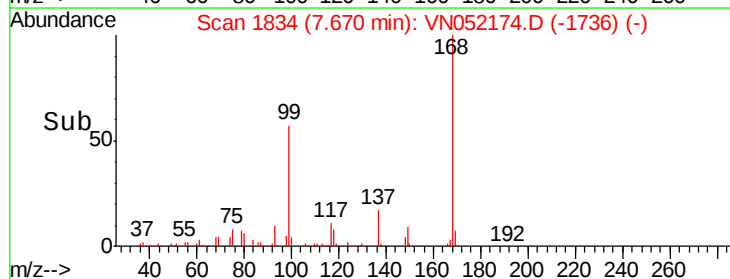
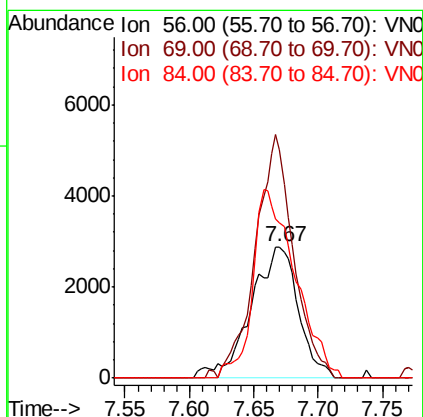
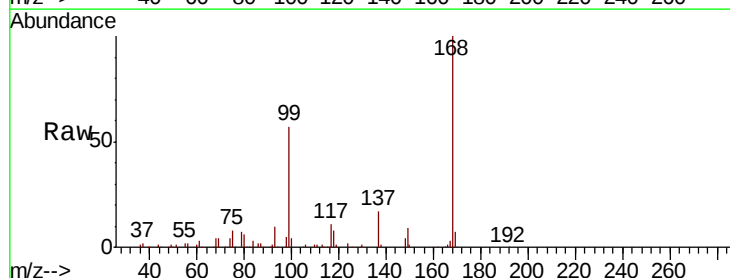
Tgt Ion: 56 Resp: 7385

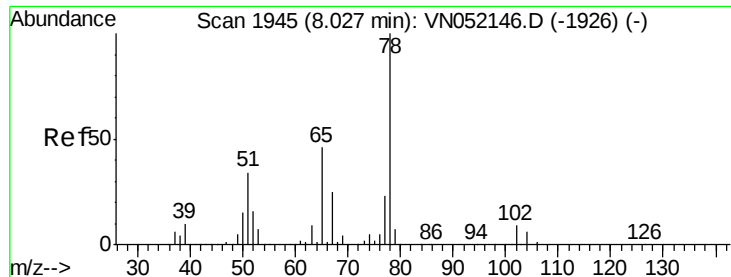
Ion Ratio Lower Upper

56 100

69 173.8 23.5 35.3#

84 118.3 68.7 103.1#

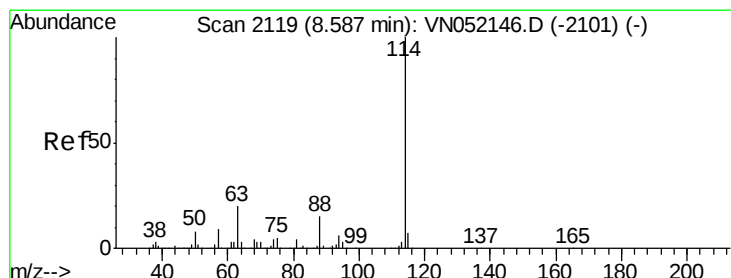
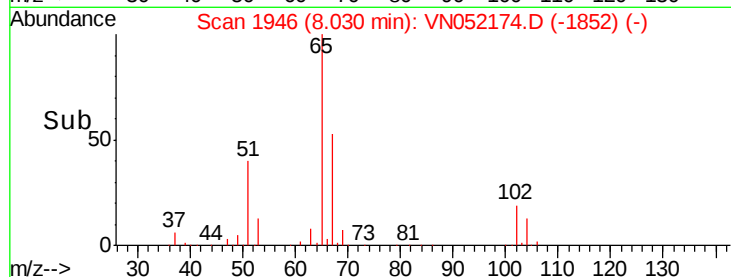
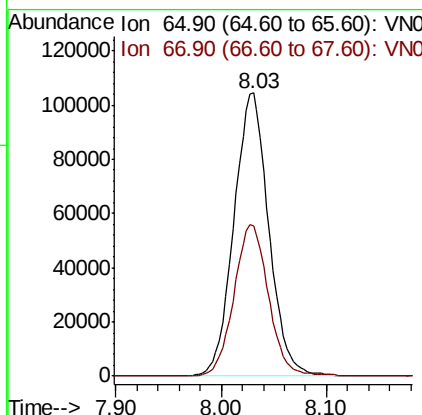
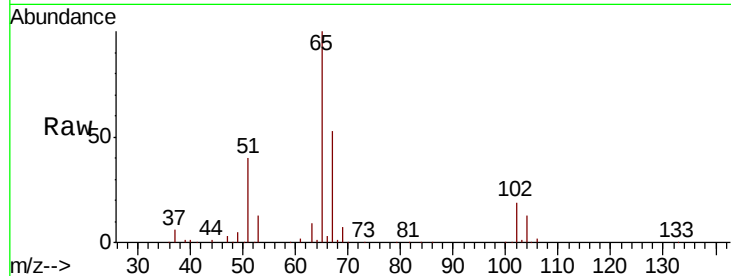




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN052174.D
 Acq: 6 Nov 2018 3:28

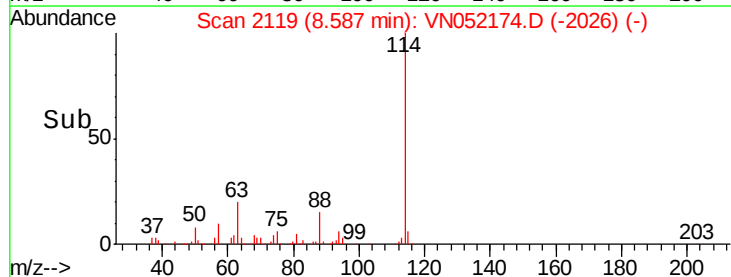
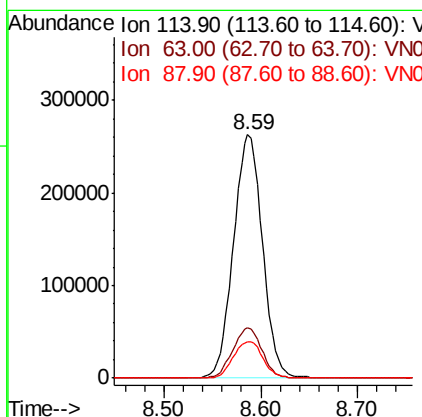
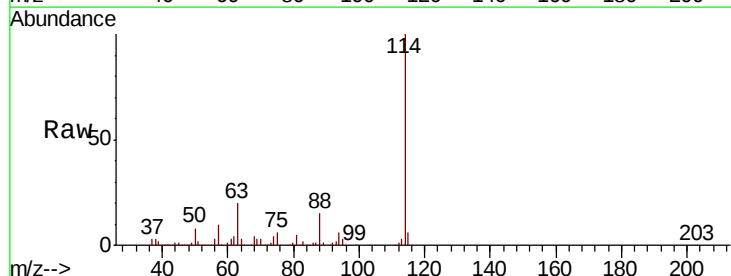
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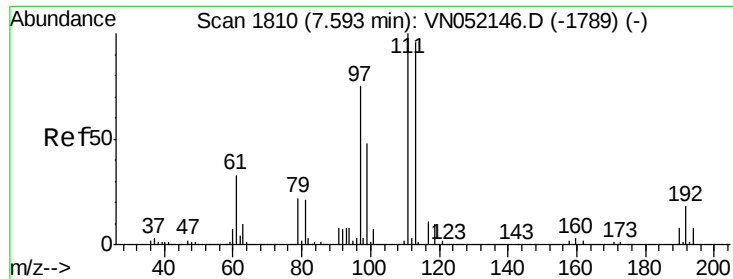
Tot Ion: 65 Resp: 238999
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052174.D
 Acq: 6 Nov 2018 3:28

Tgt Ion: 114 Resp: 547756
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 40.0
 88 14.7 0.0 31.0

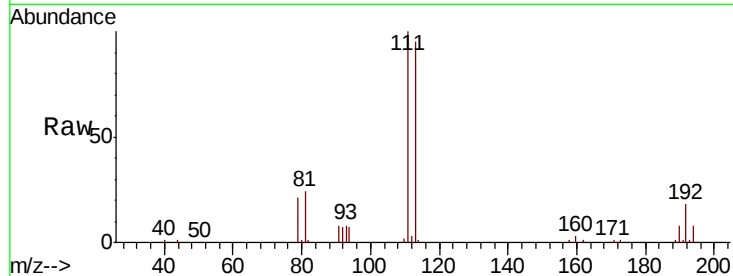




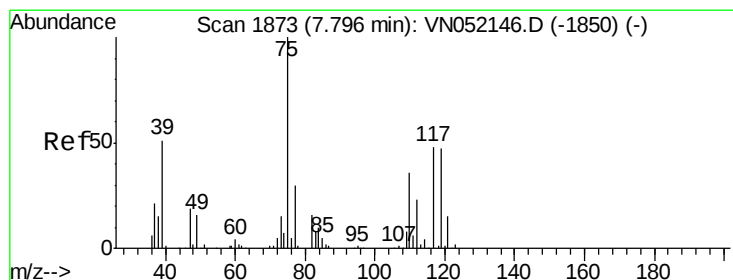
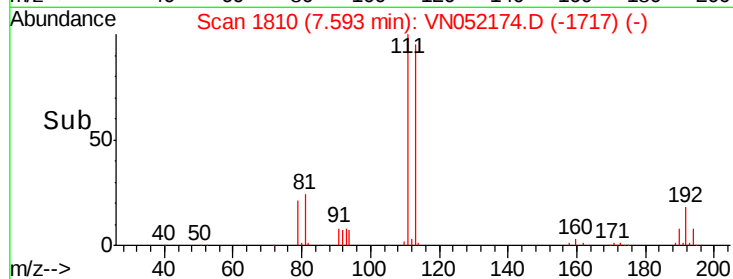
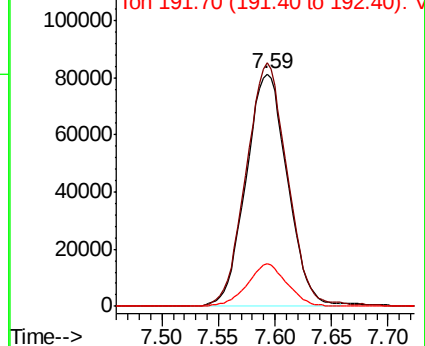
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052174.D
 Acq: 6 Nov 2018 3:28

Instrument :
 MSVOA_N
 ClientSampleId :
 COMP-SAMPLES(21-25)

Tot Ion:113 Resp: 207523
 Ion Ratio Lower Upper
 113 100
 111 104.0 81.7 122.5
 192 17.5 14.2 21.4

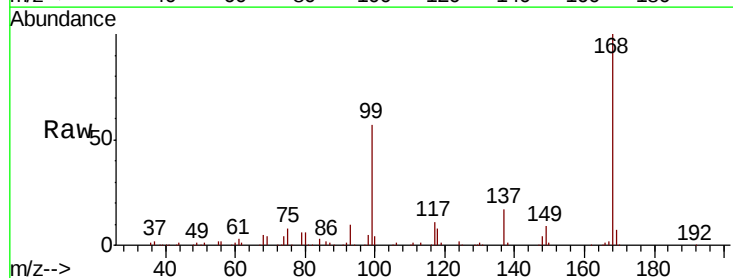


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

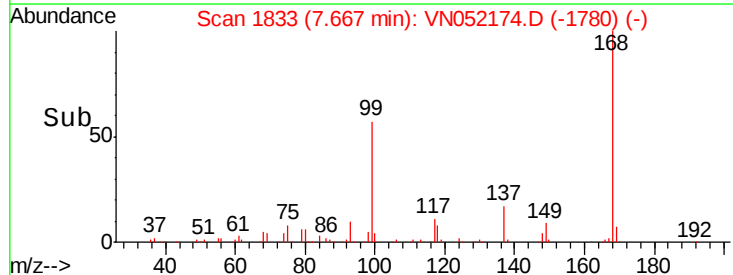
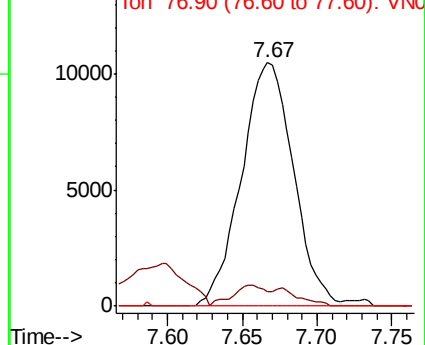


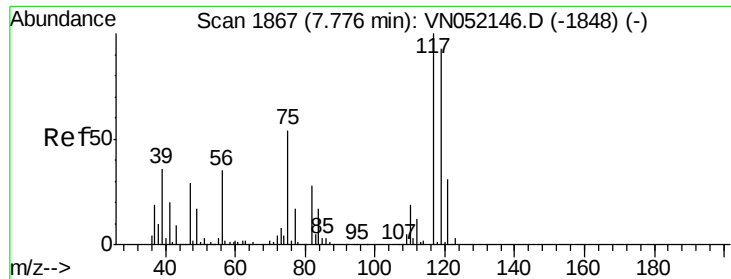
#36
 1,1-Dichloropropene
 Concen: 5.227 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052174.D
 Acq: 6 Nov 2018 3:28

Tgt Ion: 75 Resp: 25329
 Ion Ratio Lower Upper
 75 100
 110 5.3 17.8 53.5#
 77 0.0 24.0 36.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 6.668 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052174.D

Acq: 6 Nov 2018 3:28

Instrument :

MSVOA_N

ClientSampleId :

COMP-SAMPLES(21-25)

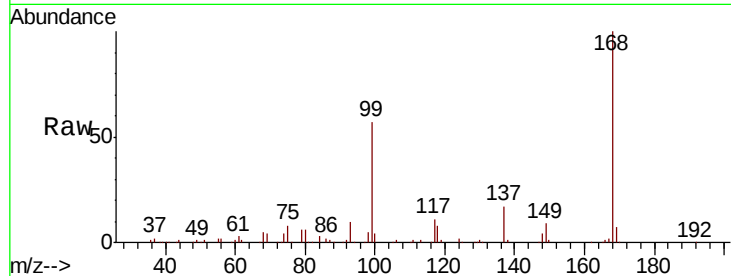
Tot Ion:117 Resp: 32304

Ion Ratio Lower Upper

117 100

119 5.2 74.7 112.1#

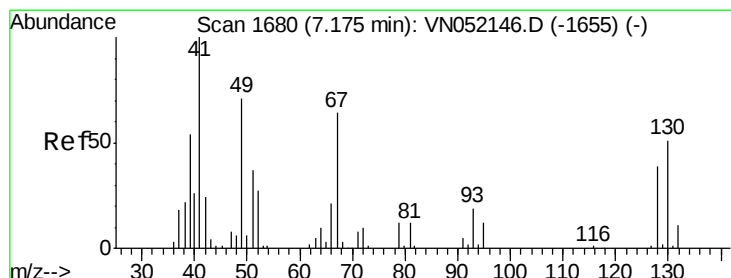
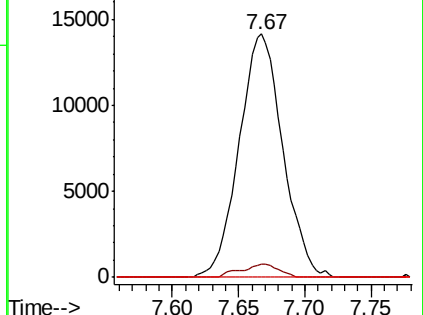
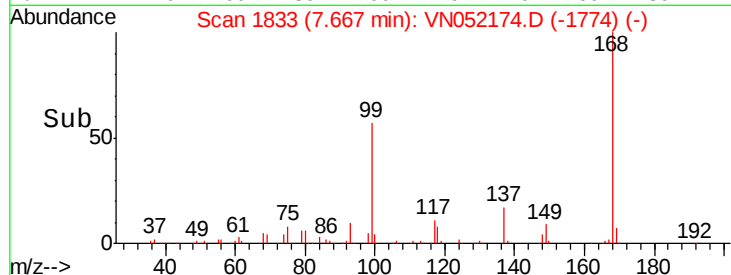
121 0.0 24.5 36.7#



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



#41

Methacrylonitrile

Concen: 1.454 ug/l

RT: 7.17 min Scan# 1677

Delta R.T. -0.01 min

Lab File: VN052174.D

Acq: 6 Nov 2018 3:28

Tgt Ion: 41 Resp: 102

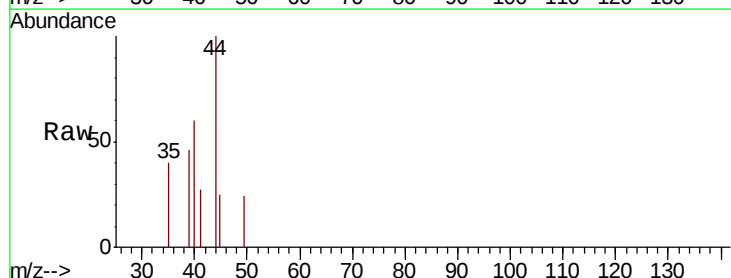
Ion Ratio Lower Upper

41 100

39 518.6 49.6 74.4#

67 0.0 65.4 98.2#

52 0.0 27.2 40.8#

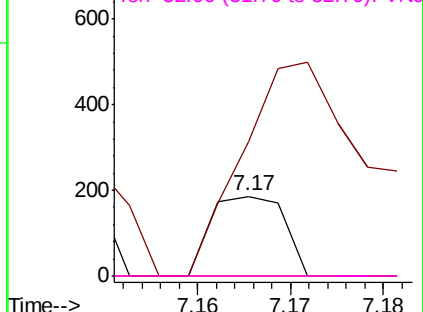
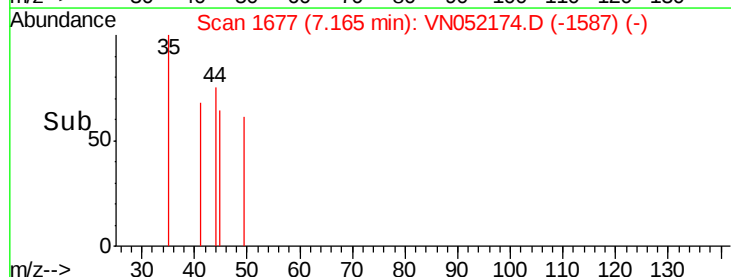


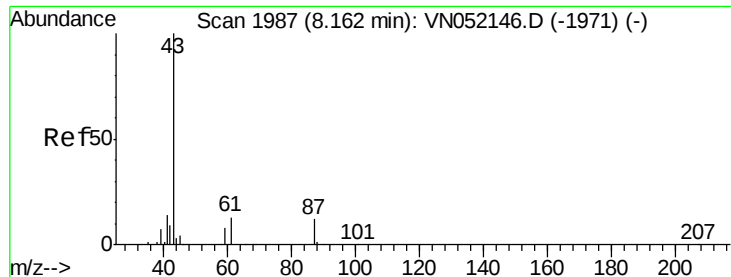
Abundance Ion 41.00 (40.70 to 41.70): VNO

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: 21.044 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052174.D

Acq: 6 Nov 2018 3:28

Instrument :

MSVOA_N

ClientSampleId :

COMP-SAMPLES(21-25)

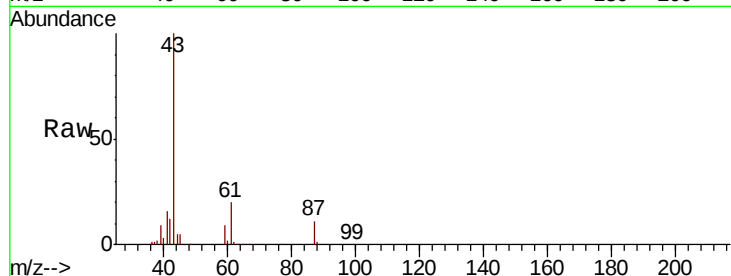
Tot Ion: 43 Resp: 116352

Ion Ratio Lower Upper

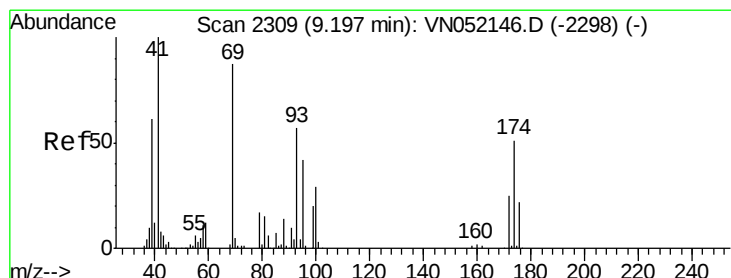
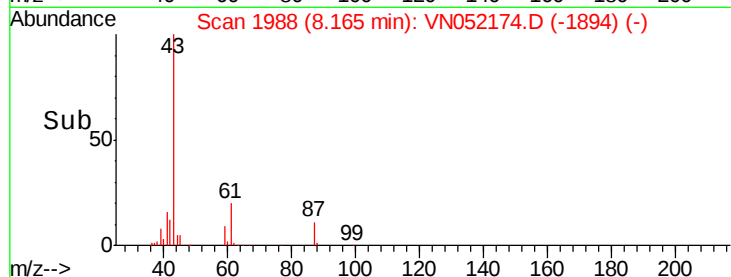
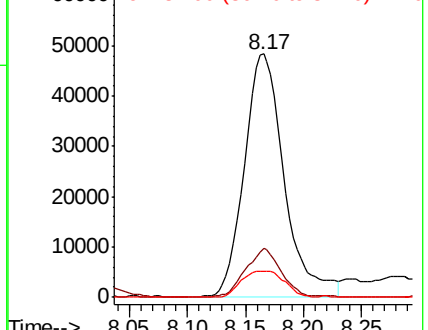
43 100

61 17.9 21.5 32.3#

87 11.6 10.2 15.2



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



#48

Methyl methacrylate

Concen: 1.127 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN052174.D

Acq: 6 Nov 2018 3:28

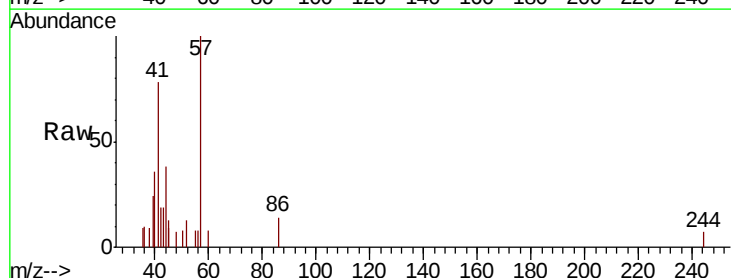
Tgt Ion: 41 Resp: 2998

Ion Ratio Lower Upper

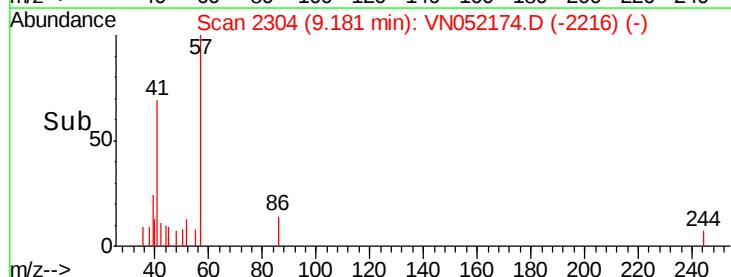
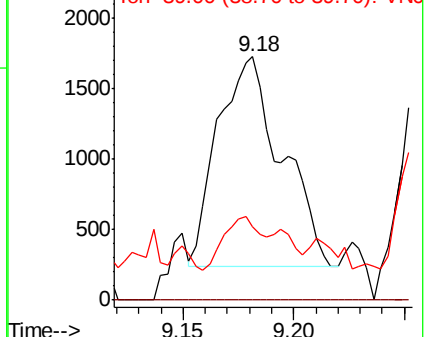
41 100

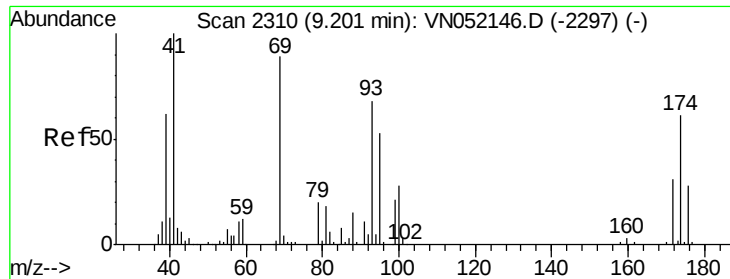
69 0.0 69.7 104.5#

39 14.6 50.6 76.0#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

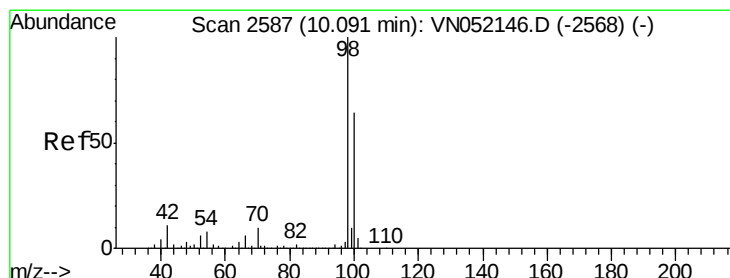
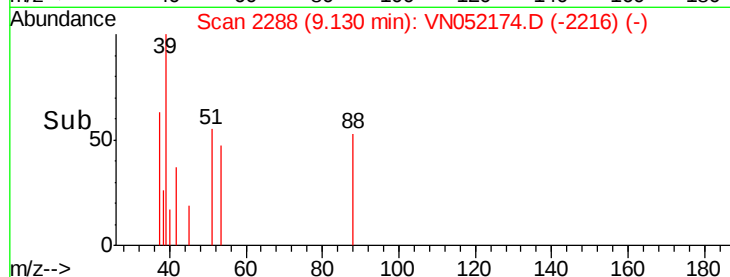
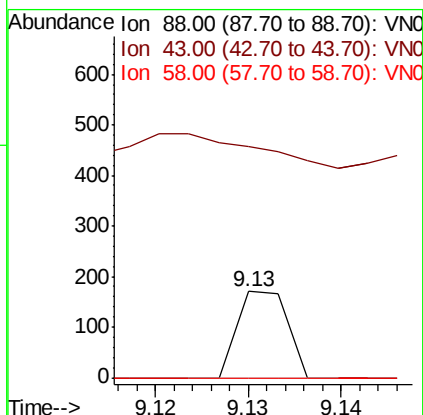
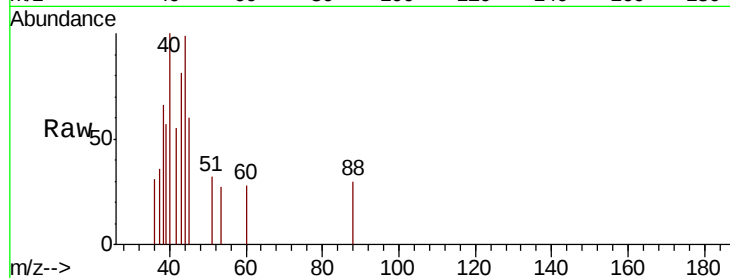




#49
 1,4-Dioxane
 Concen: Below Cal
 RT: 9.13 min Scan# 2288
 Delta R.T. -0.07 min
 Lab File: VN052174.D
 Acq: 6 Nov 2018 3:28

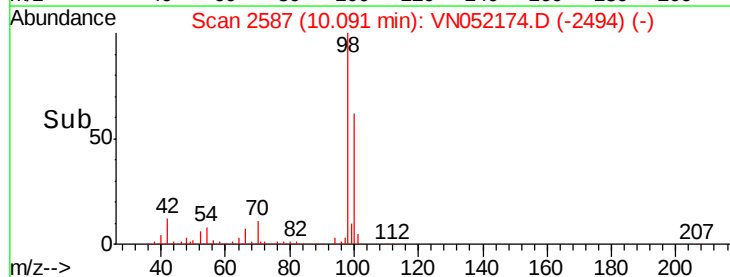
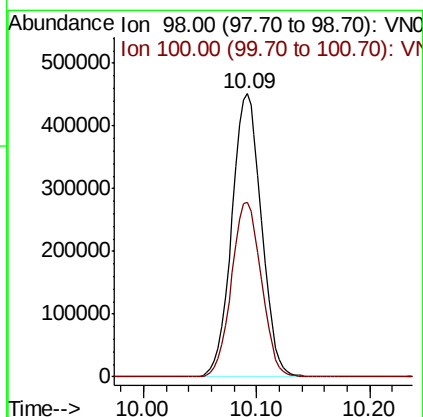
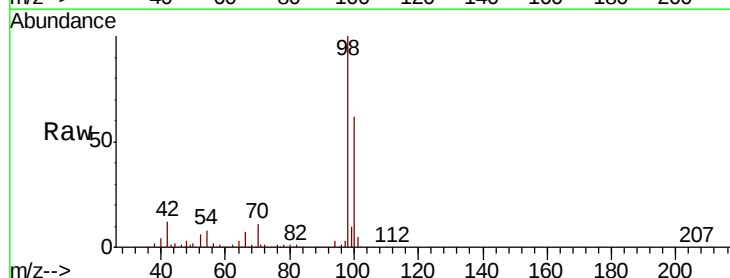
Instrument :
 MSVOA_N
 ClientSampleId :
 COMP-SAMPLES(21-25)

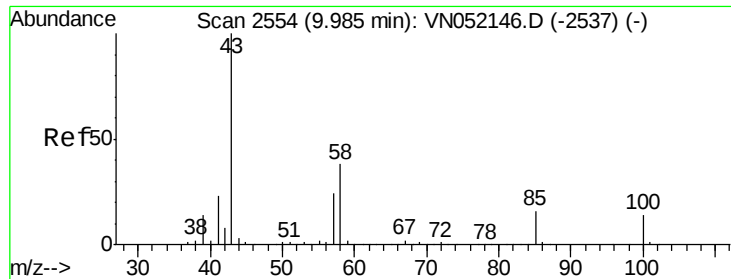
Tot Ion: 88 Resp: 65
 Ion Ratio Lower Upper
 88 100
 43 0.0 33.0 49.6#
 58 0.0 58.6 88.0#



#50
 Toluene-d8
 Concen: Below ug/l
 RT: 10.09 min Scan# 2587
 Delta R.T. 0.00 min
 Lab File: VN052174.D
 Acq: 6 Nov 2018 3:28

Tgt Ion: 98 Resp: 823363
 Ion Ratio Lower Upper
 98 100
 100 62.4 50.5 75.7





#51

4-Methyl-2-Pentanone

Concen: 0.429 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN052174.D

Acq: 6 Nov 2018 3:28

Instrument :

MSVOA_N

ClientSampleId :

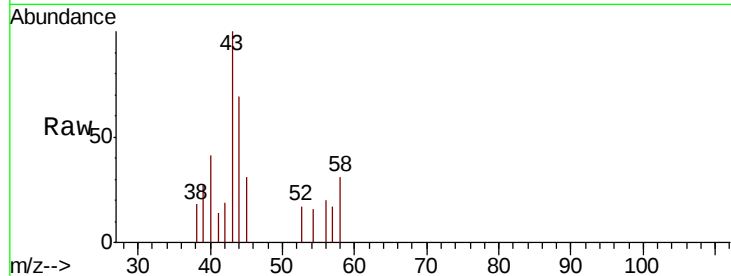
COMP-SAMPLES(21-25)

Tot Ion: 43 Resp: 1252

Ion Ratio Lower Upper

43 100

58 29.6 29.6 44.4



Abundance Ion 43.00 (42.70 to 43.70): VN052146.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN052146.D (-2537) (-)

9.98

1200

1000

800

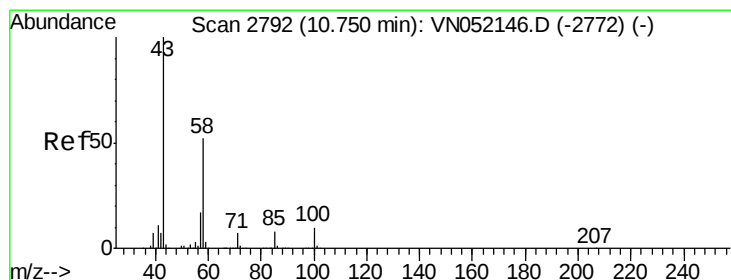
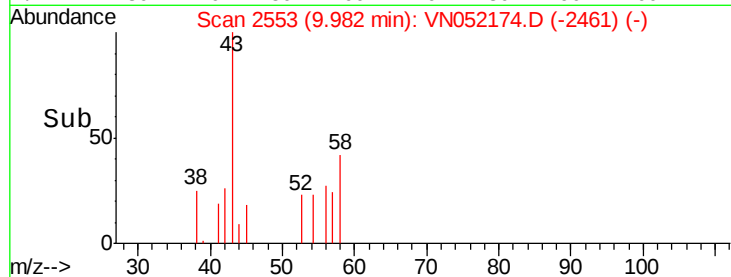
600

400

200

0

Time-->



#59

2-Hexanone

Concen: 2.725 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052174.D

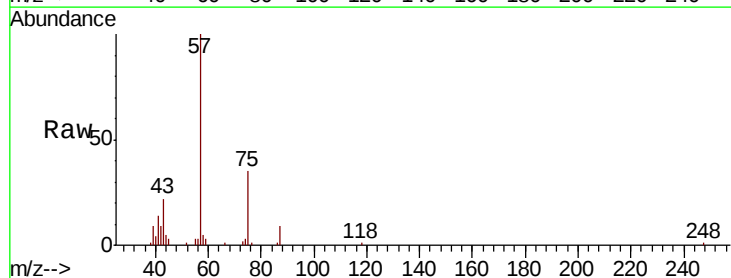
Acq: 6 Nov 2018 3:28

Tgt Ion: 43 Resp: 5540

Ion Ratio Lower Upper

43 100

58 26.2 25.8 77.4



Abundance Ion 43.00 (42.70 to 43.70): VN052146.D (-2772) (-)

Ion 58.00 (57.70 to 58.70): VN052146.D (-2772) (-)

10.76

4000

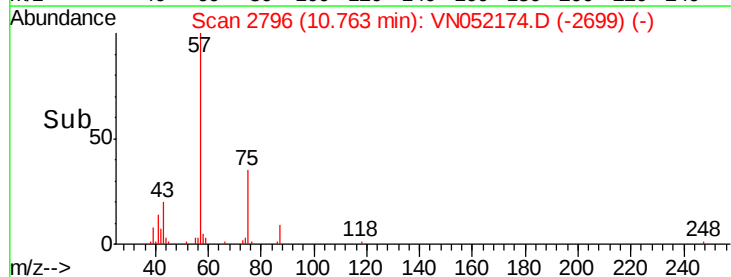
3000

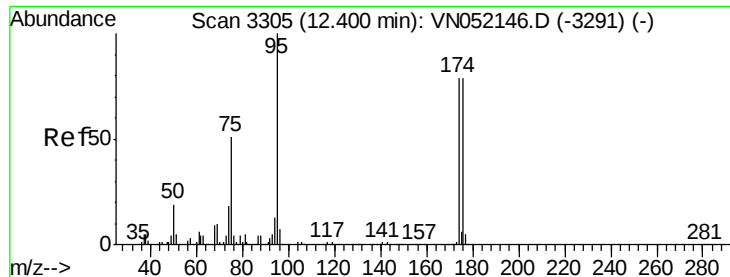
2000

1000

0

Time-->

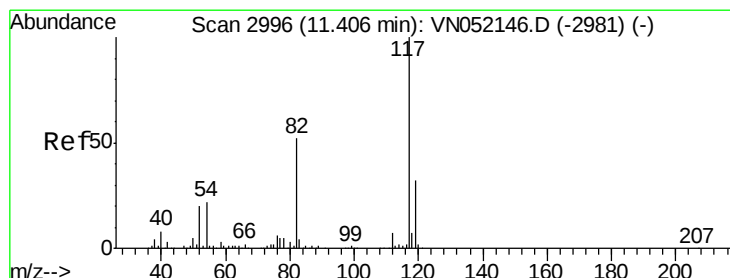
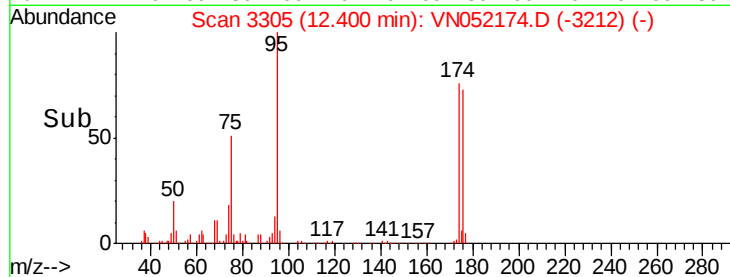
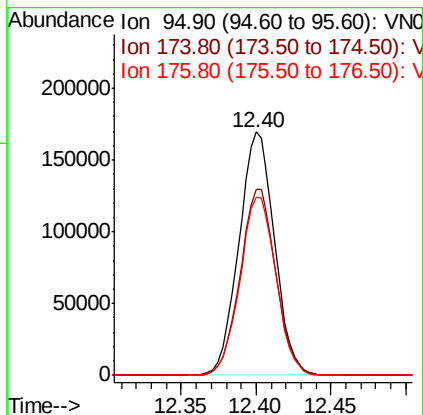
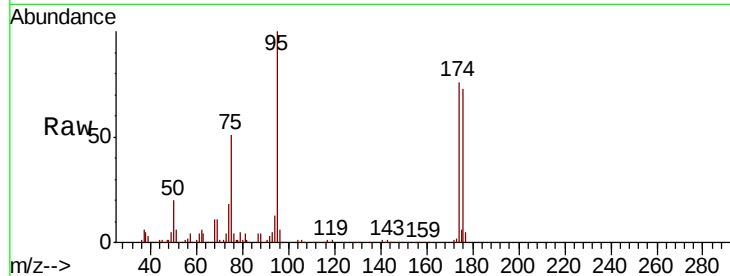




#62
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN052174.D
Acq: 6 Nov 2018 3:28

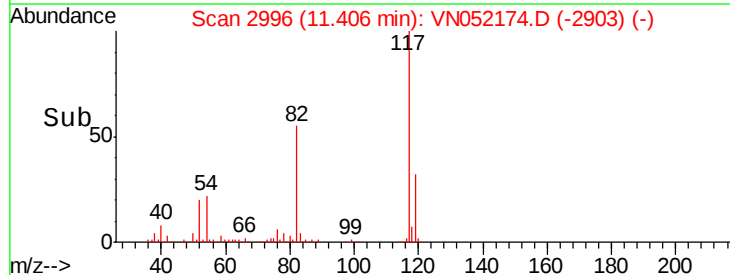
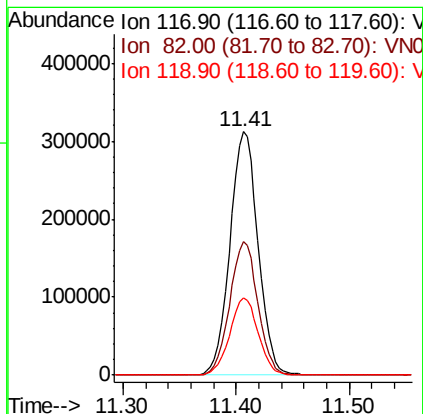
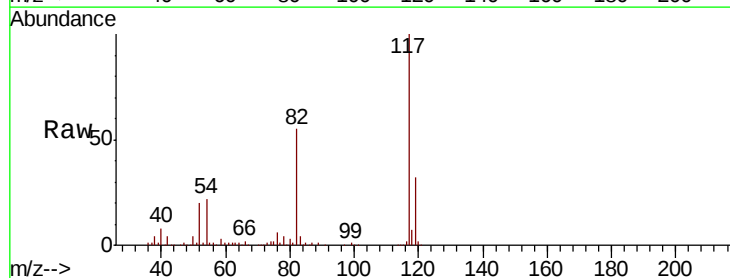
Instrument :
MSVOA_N
ClientSampleId :
COMP-SAMPLES(21-25)

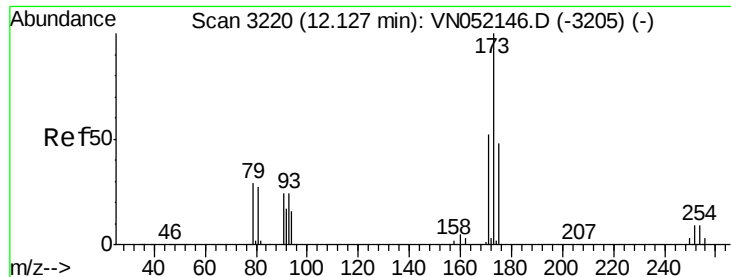
Tot Ion: 95 Resp: 279982
Ion Ratio Lower Upper
95 100
174 76.8 0.0 162.6
176 74.3 0.0 155.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052174.D
Acq: 6 Nov 2018 3:28

Tgt Ion: 117 Resp: 538052
Ion Ratio Lower Upper
117 100
82 54.6 41.9 62.9
119 31.7 25.7 38.5





#71

Bromoform

Concen: 2.851 ug/l

RT: 12.38 min Scan# 3299

Delta R.T. 0.25 min

Lab File: VN052174.D

Acq: 6 Nov 2018 3:28

Instrument :

MSVOA_N

ClientSampleId :

COMP-SAMPLES(21-25)

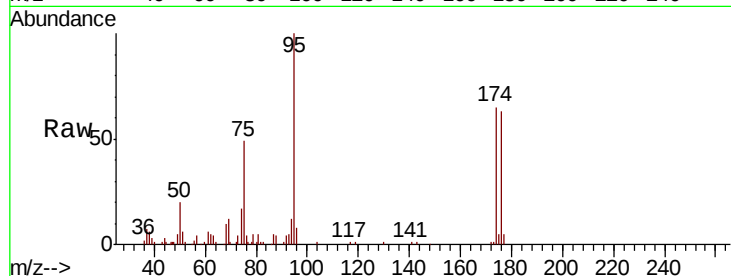
Tot Ion:173 Resp: 146

Ion Ratio Lower Upper

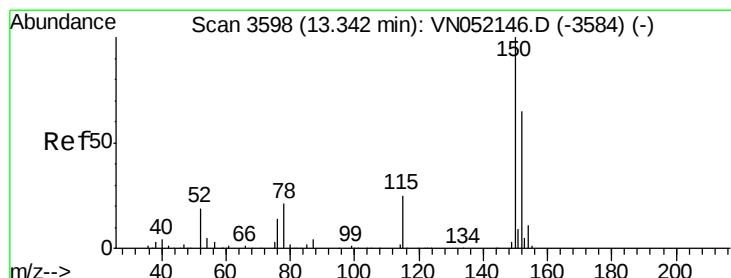
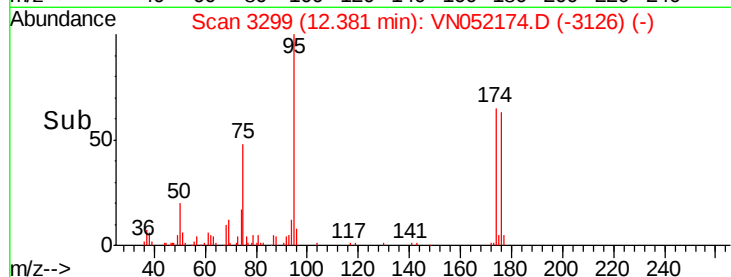
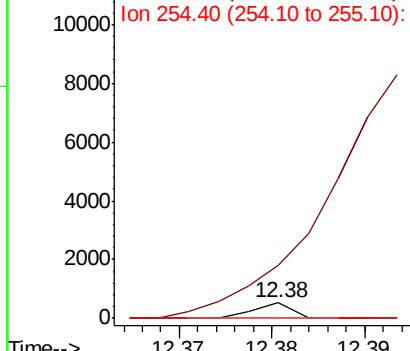
173 100

175 0.0 24.8 74.4#

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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052174.D

Acq: 6 Nov 2018 3:28

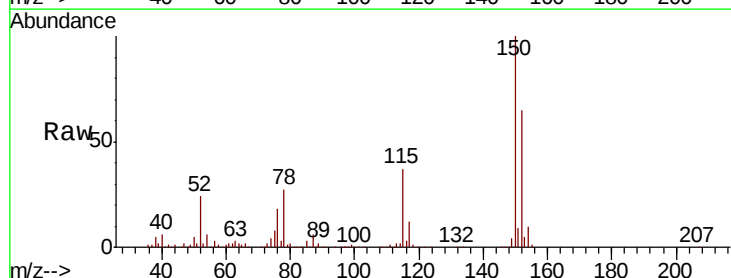
Tgt Ion:152 Resp: 228892

Ion Ratio Lower Upper

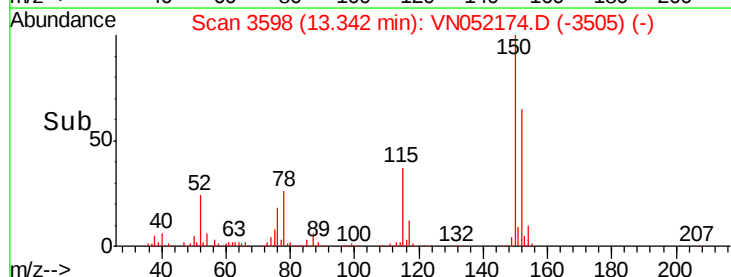
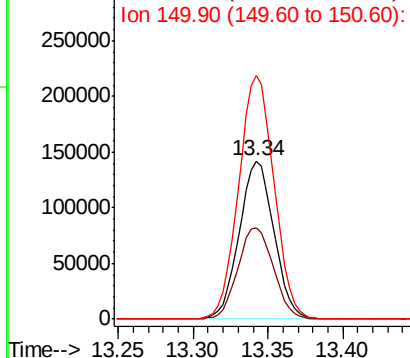
152 100

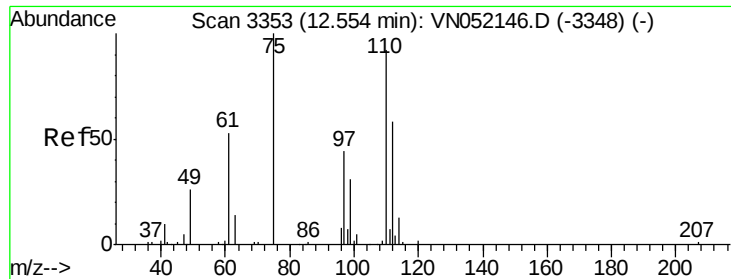
115 59.5 28.5 85.5

150 157.2 0.0 348.6



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





#76

1,2,3-Trichloropropane

Concen: 40.291 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052174.D

Acq: 6 Nov 2018 3:28

Instrument :

MSVOA_N

ClientSampleId :

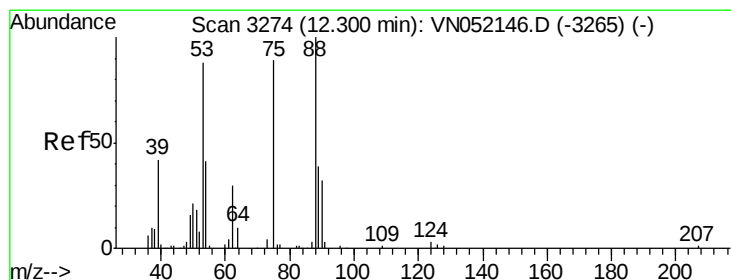
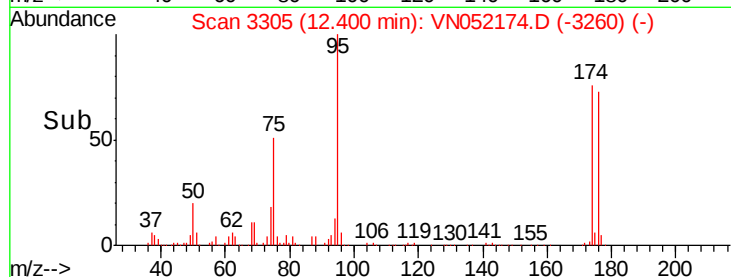
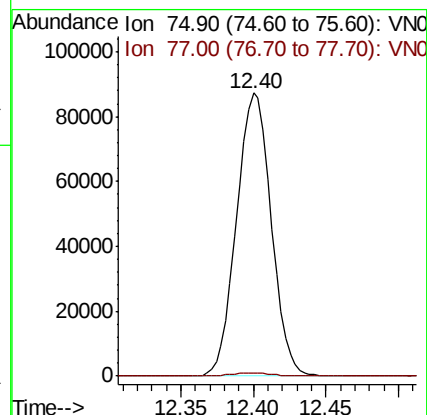
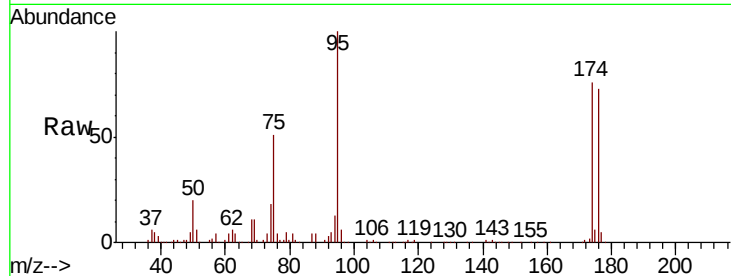
COMP-SAMPLES(21-25)

Tot Ion: 75 Resp: 145135

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 144.269 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052174.D

Acq: 6 Nov 2018 3:28

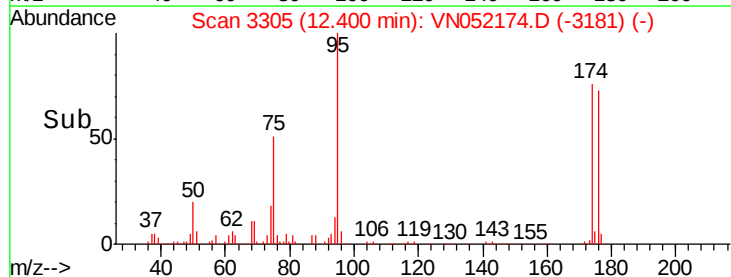
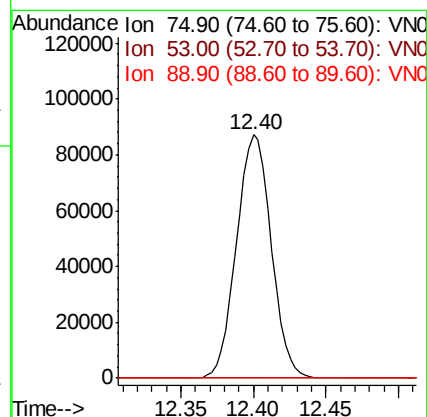
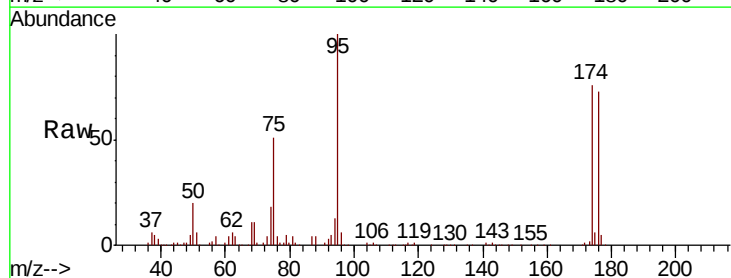
Tgt Ion: 75 Resp: 145135

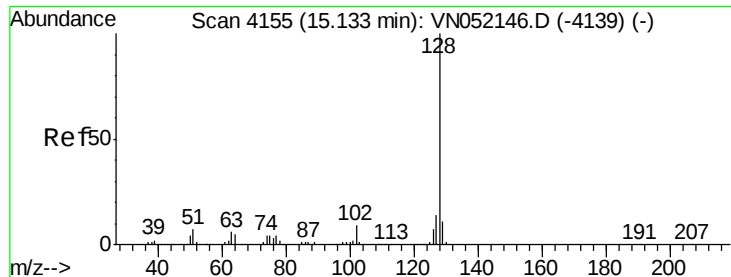
Ion Ratio Lower Upper

75 100

53 0.1 79.4 119.0#

89 0.0 35.8 53.8#

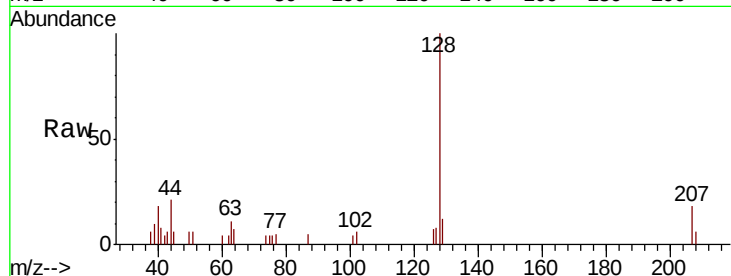




#95
Naphthalene
Concen: 1.064 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.00 min
Lab File: VN052174.D
Acq: 6 Nov 2018 3:28

Instrument :
MSVOA_N
ClientSampleId :
COMP-SAMPLES(21-25)

Tot Ion	Ratio	Lower	Upper
128	100		
127	9.7	10.8	16.2#
129	8.7	9.1	13.7#



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

