

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110518\
 Data File : VN052171.D
 Acq On : 6 Nov 2018 2:08
 Operator : MD\SY
 Sample : J5805-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 31 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 COMP-SAMPLES(6-10)

Quant Time: Nov 06 05:20:00 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	309567	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	561323	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	541960	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	216501	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	244006	66.47	ug/l	0.00
Spiked Amount			Recovery	=	132.94%	
35) Dibromofluoromethane	7.59	113	212441	60.96	ug/l	0.00
Spiked Amount			Recovery	=	121.92%	
50) Toluene-d8	10.09	98	838179	62.21	ug/l	0.00
Spiked Amount			Recovery	=	124.42%	
62) 4-Bromofluorobenzene	12.40	95	277307	62.70	ug/l	0.00
Spiked Amount			Recovery	=	125.40%	

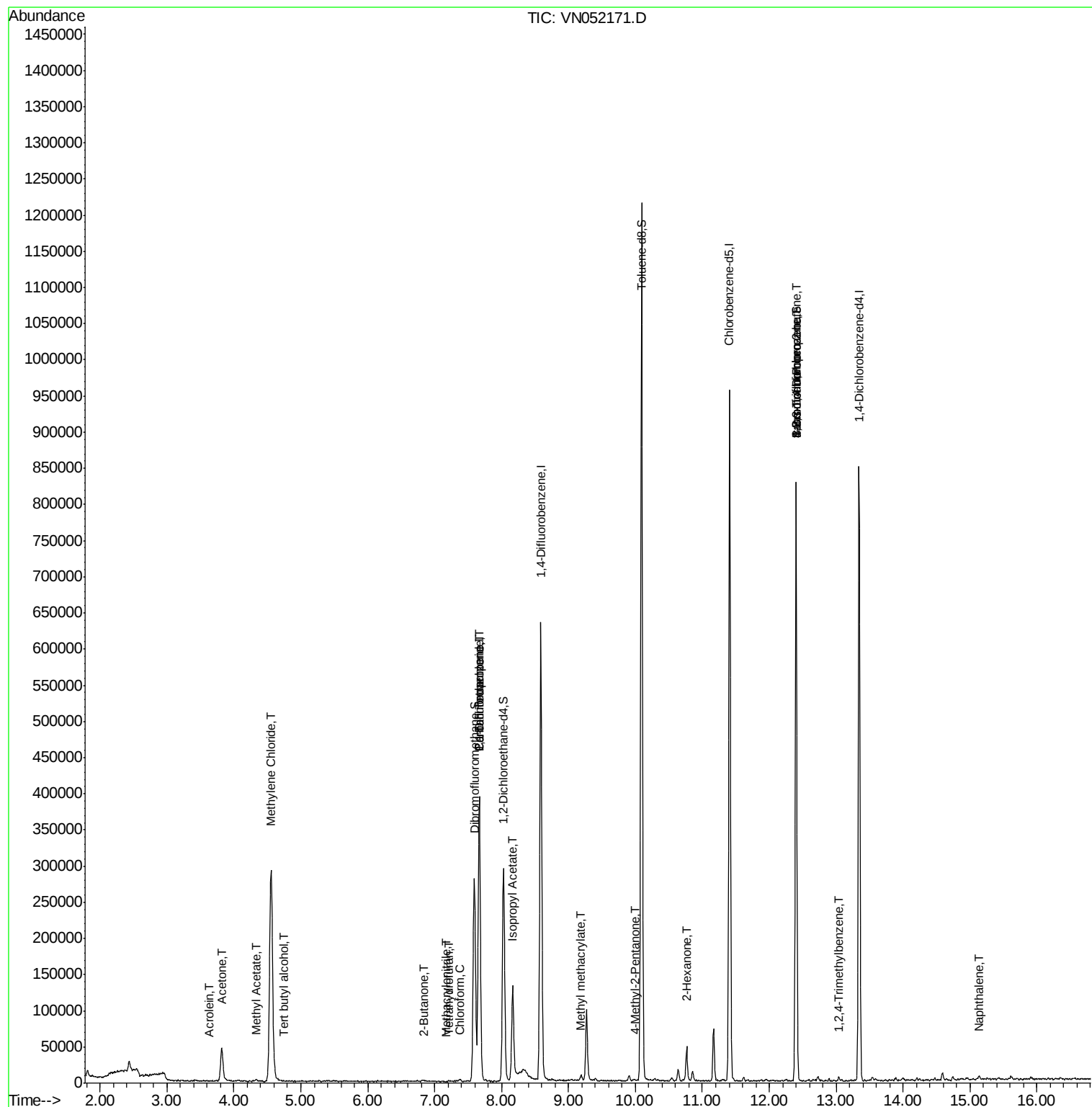
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	66	0.414	ug/l #	79
13) Acrolein	3.62	56	35	32.185	ug/l #	1
16) Acetone	3.81	43	76816	92.364	ug/l	97
18) Methyl Acetate	4.34	43	4391	1.661	ug/l #	61
20) Methylene Chloride	4.55	84	217791	63.025	ug/l	96
25) 2-Butanone	6.85	43	1856	1.439	ug/l #	48
29) Tetrahydrofuran	7.21	42	568	0.712	ug/l #	66
30) Chloroform	7.37	83	1760	0.298	ug/l #	57
31) Cyclohexane	7.66	56	7549	Below Cal	#	12
36) 1,1-Dichloropropene	7.67	75	25507	5.137	ug/l #	45
38) Carbon Tetrachloride	7.66	117	31768	6.399	ug/l #	17
41) Methacrylonitrile	7.18	41	107	1.455	ug/l #	1
43) Isopropyl Acetate	8.17	43	159204	28.099	ug/l #	87
48) Methyl methacrylate	9.18	41	3808	1.396	ug/l #	27
49) 1,4-Dioxane	9.42	88	32	Below Cal	#	1
51) 4-Methyl-2-Pentanone	9.98	43	1272	0.425	ug/l #	77
59) 2-Hexanone	10.77	43	8512	4.085	ug/l #	59
71) Bromoform	12.39	173	669	3.051	ug/l #	28
76) 1,2,3-Trichloropropane	12.40	75	143191	42.027	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	143191	150.483	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.04	105	2692	0.204	ug/l	80
94) Hexachlorobutadiene	15.07	225	60	Below Cal	#	18
95) Naphthalene	15.13	128	4363	0.658	ug/l #	94

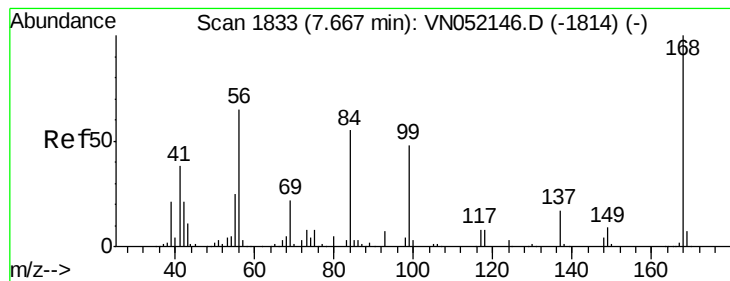
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN110518\
Data File : VN052171.D
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COMP-SAMPLES(6-10)

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N110518W.M
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# 1834

Delta R.T. 0.00 min

Lab File: VN052171.D

Acq: 6 Nov 2018 2:08

Instrument :

MSVOA_N

ClientSampleId :

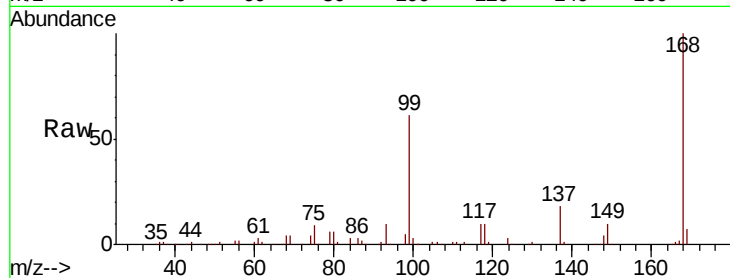
COMP-SAMPLES(6-10)

Tot Ion:168 Resp: 309567

Ion Ratio Lower Upper

168 100

99 60.6 45.4 68.2



Abundance Ion 167.90 (167.60 to 168.60): VN052146.D (-1814) (-)

Ion 98.90 (98.60 to 99.60): VN052146.D (-1814) (-)

7.67

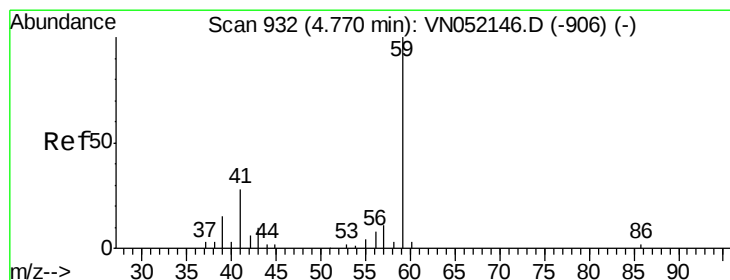
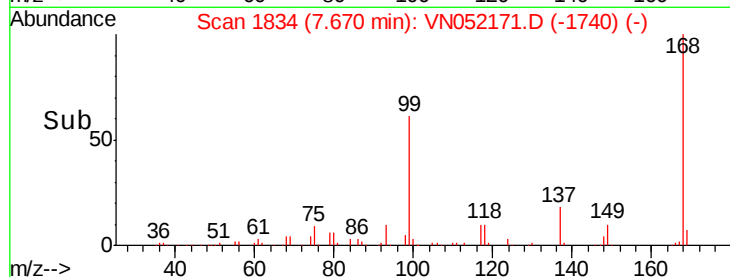
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.414 ug/l

RT: 4.75 min Scan# 927

Delta R.T. -0.02 min

Lab File: VN052171.D

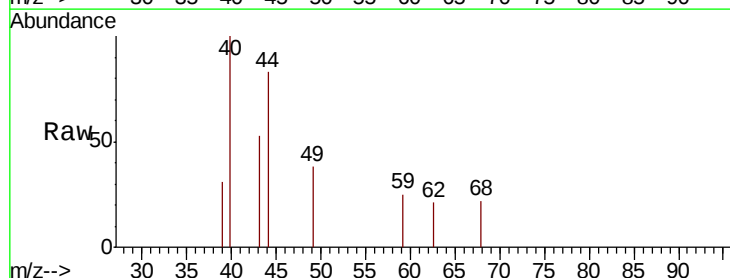
Acq: 6 Nov 2018 2:08

Tgt Ion: 59 Resp: 66

Ion Ratio Lower Upper

59 100

57 0.0 5.7 8.5#



Abundance Ion 59.00 (58.70 to 59.70): VN052146.D (-906) (-)

Ion 57.00 (56.70 to 57.70): VN052146.D (-906) (-)

4.75

200

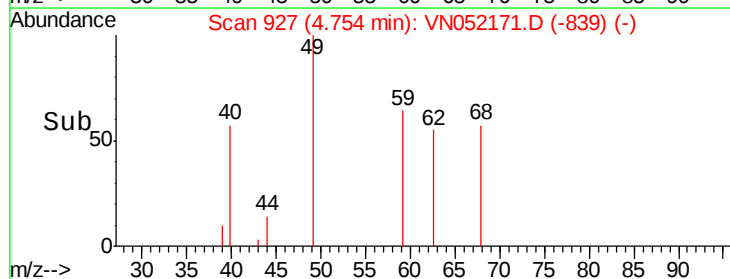
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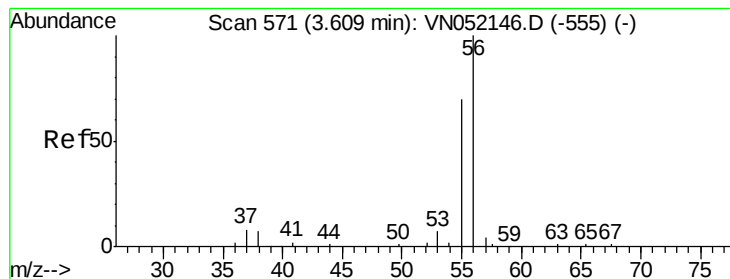
100

50

0

Time-->





#13

Acrolein

Concen: 32.185 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN052171.D

Acq: 6 Nov 2018 2:08

Instrument :

MSVOA_N

ClientSampleId :

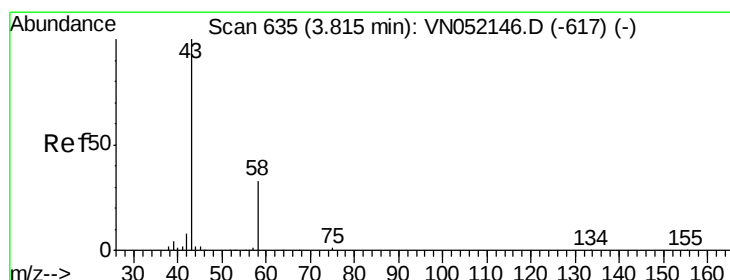
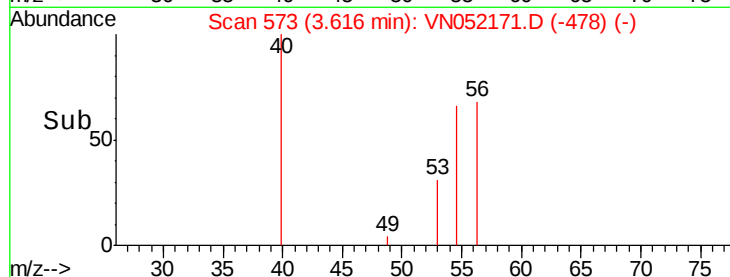
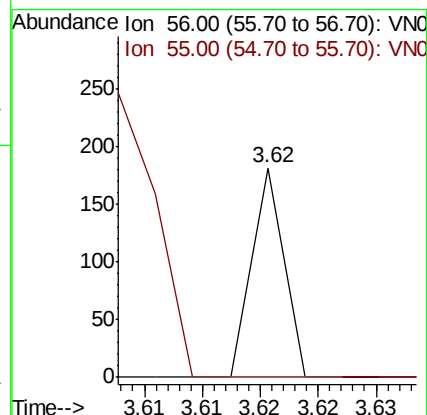
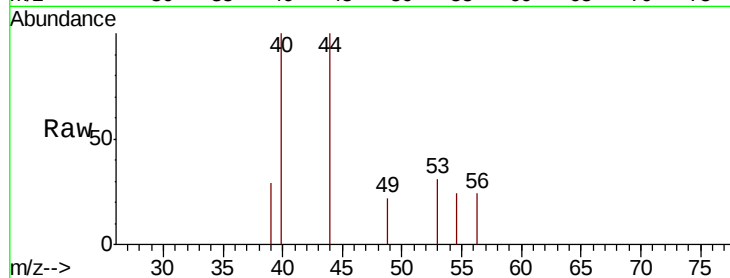
COMP-SAMPLES(6-10)

Tot Ion: 56 Resp: 35

Ion Ratio Lower Upper

56 100

55 337.1 56.6 84.8#



#16

Acetone

Concen: 92.364 ug/l

RT: 3.81 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN052171.D

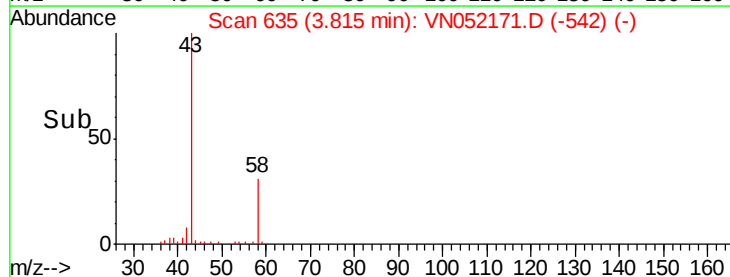
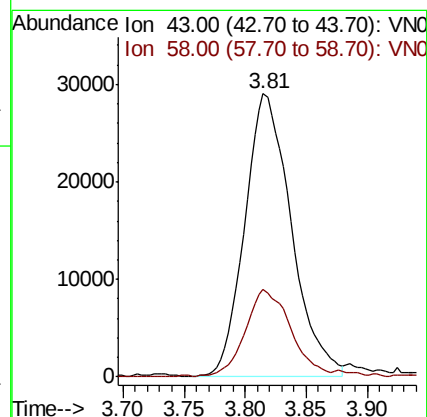
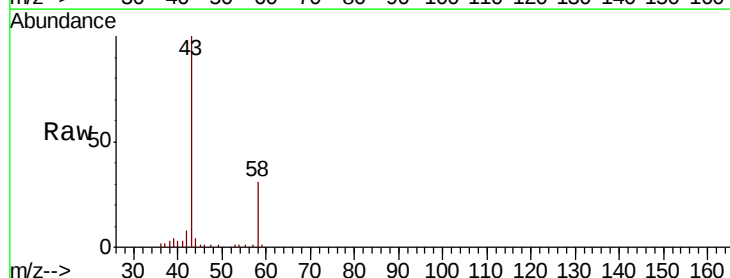
Acq: 6 Nov 2018 2:08

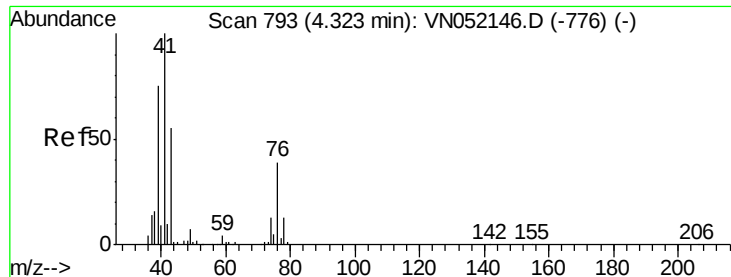
Tgt Ion: 43 Resp: 76816

Ion Ratio Lower Upper

43 100

58 30.7 26.2 39.2

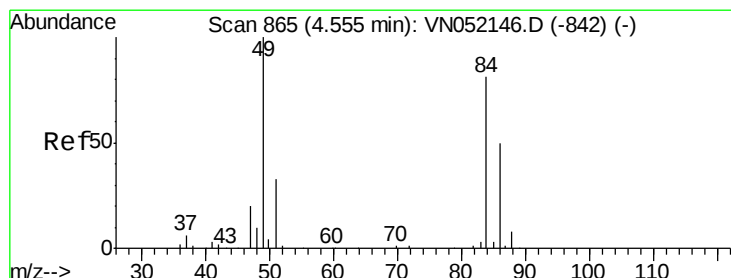
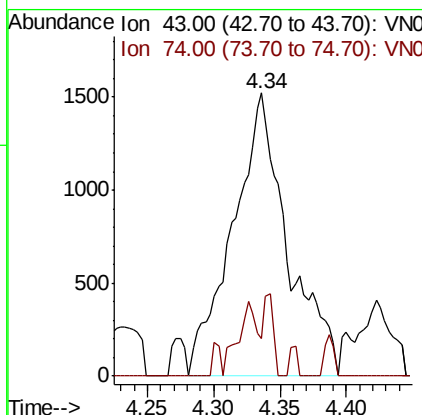
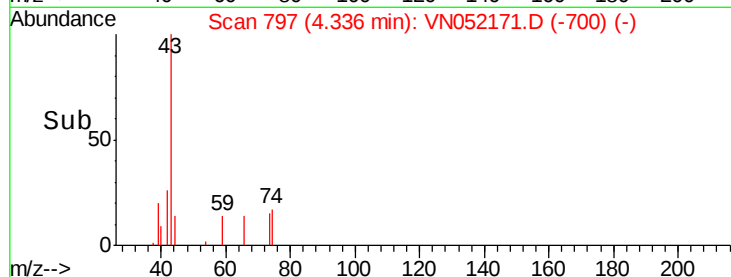
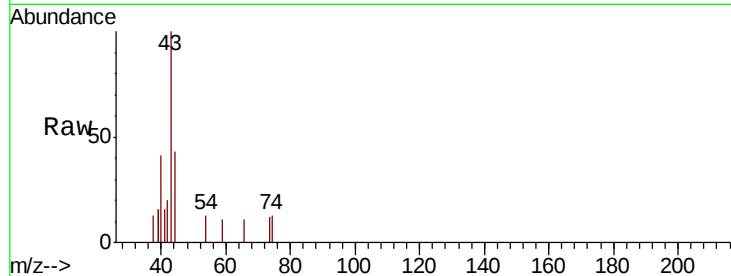




#18
Methyl Acetate
Concen: 1.661 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN052171.D
Acq: 6 Nov 2018 2:08

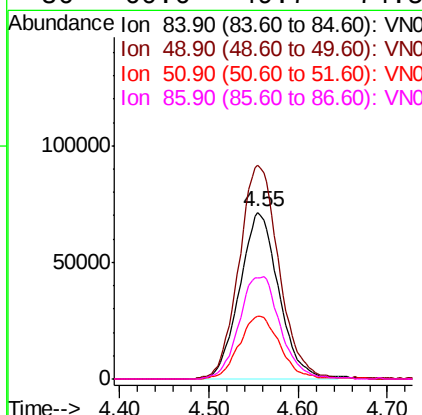
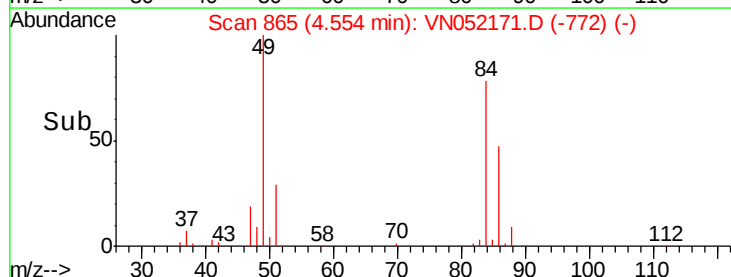
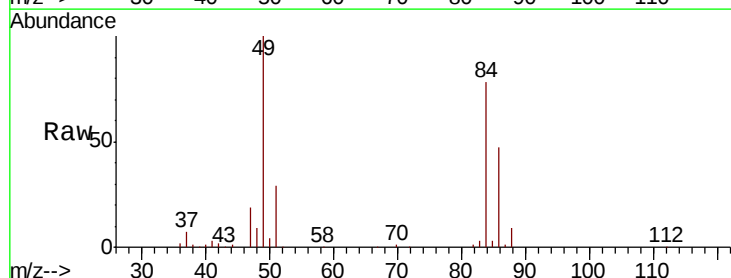
Instrument :
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COMP-SAMPLES(6-10)

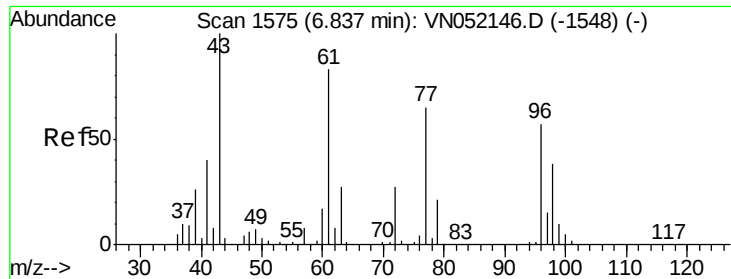
Tot Ion: 43 Resp: 4391
Ion Ratio Lower Upper
43 100
74 4.8 19.3 28.9#



#20
Methylene Chloride
Concen: 63.025 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN052171.D
Acq: 6 Nov 2018 2:08

Tgt Ion: 84 Resp: 217791
Ion Ratio Lower Upper
84 100
49 127.9 98.4 147.6
51 37.3 32.5 48.7
86 60.6 49.7 74.5





#25

2-Butanone

Concen: 1.439 ug/l

RT: 6.85 min Scan# 1579

Delta R.T. 0.01 min

Lab File: VN052171.D

Acq: 6 Nov 2018 2:08

Instrument :

MSVOA_N

ClientSampleId :

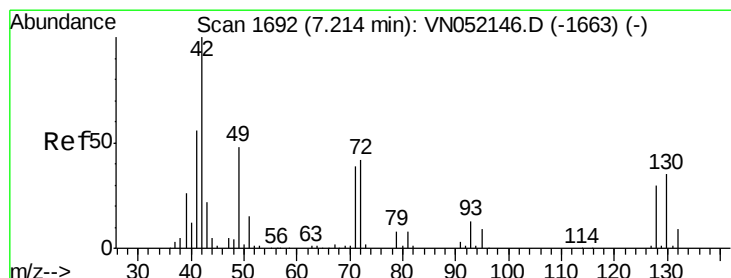
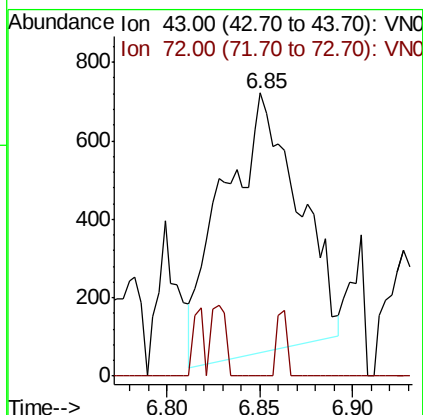
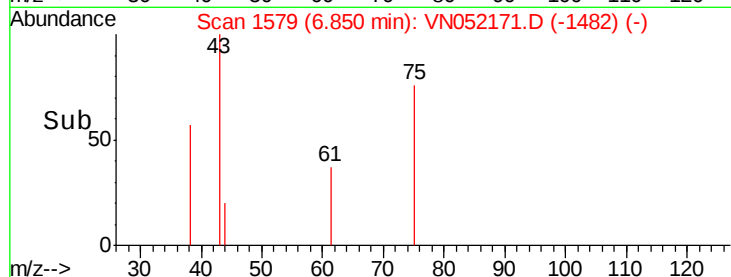
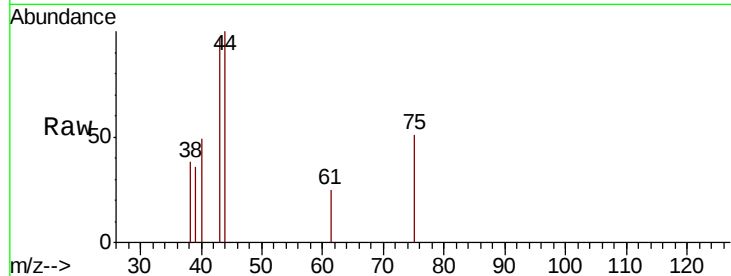
COMP-SAMPLES(6-10)

Tot Ion: 43 Resp: 1856

Ion Ratio Lower Upper

43 100

72 0.0 21.4 32.2#



#29

Tetrahydrofuran

Concen: 0.712 ug/l

RT: 7.21 min Scan# 1691

Delta R.T. -0.00 min

Lab File: VN052171.D

Acq: 6 Nov 2018 2:08

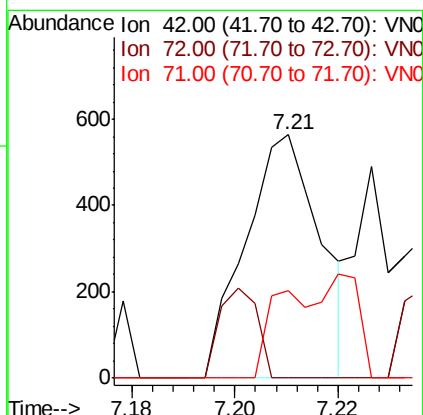
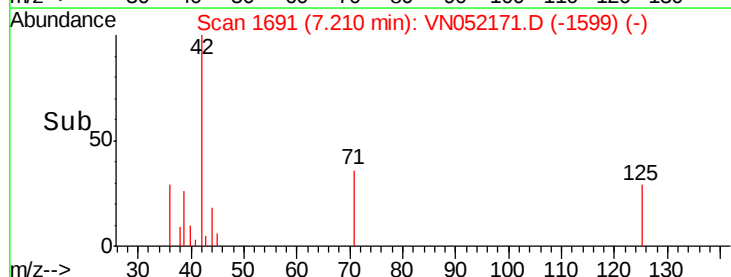
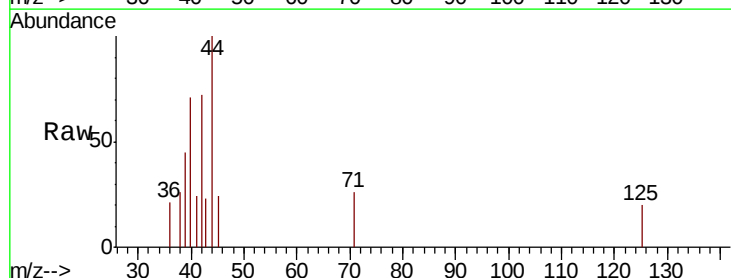
Tgt Ion: 42 Resp: 568

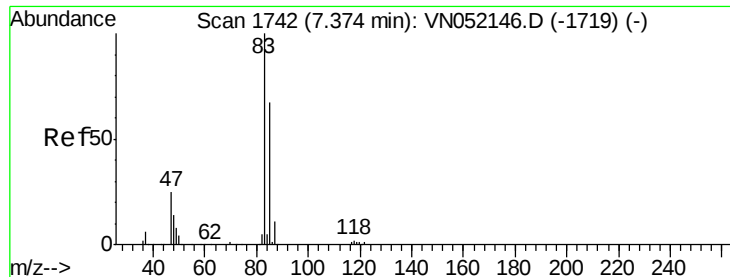
Ion Ratio Lower Upper

42 100

72 18.7 32.3 48.5#

71 19.0 31.0 46.6#

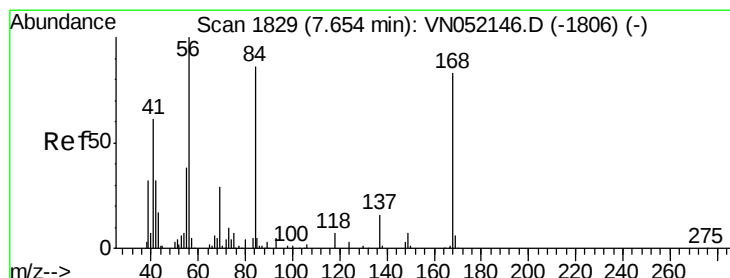
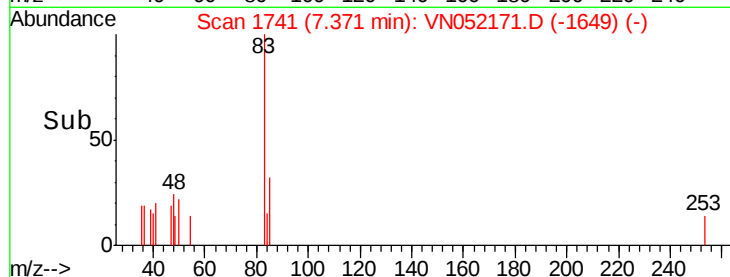
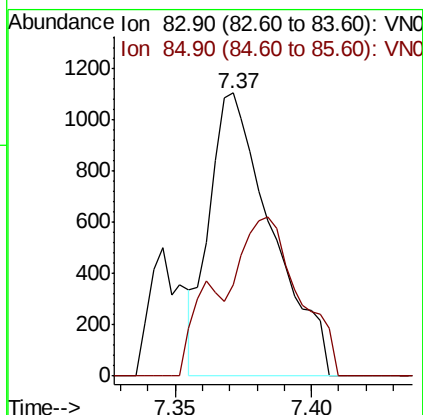
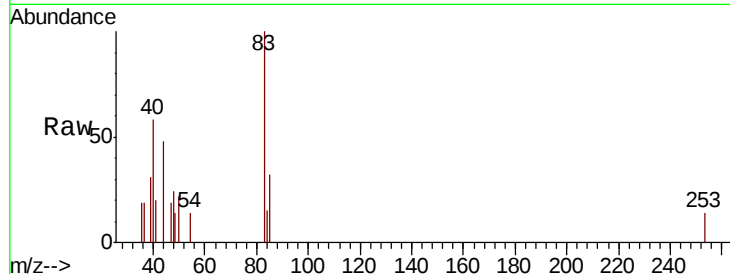




#30
Chloroform
Concen: 0.298 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN052171.D
Acq: 6 Nov 2018 2:08

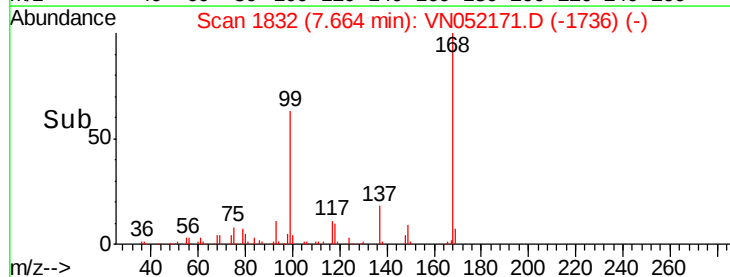
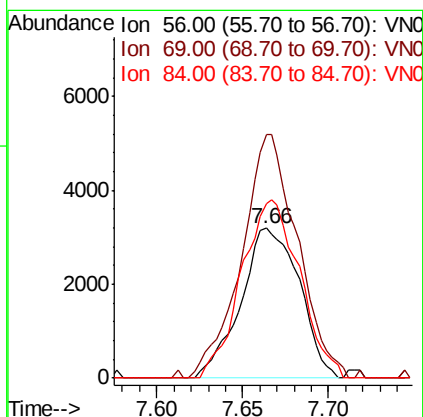
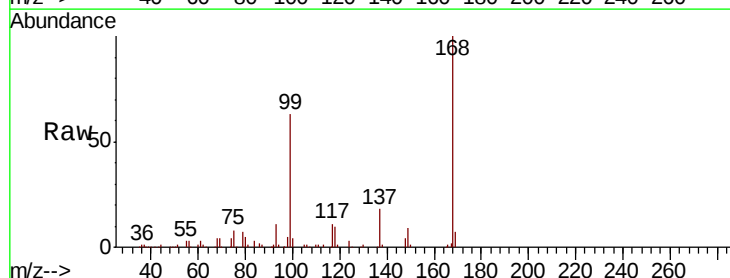
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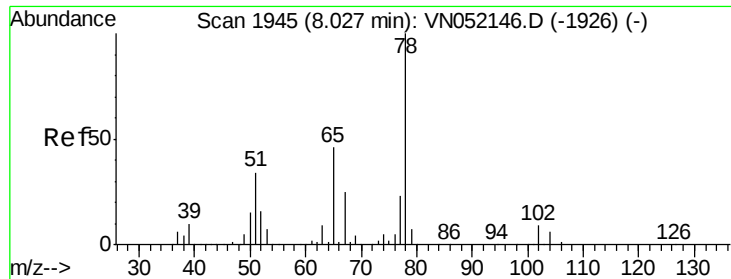
Tot Ion: 83 Resp: 1760
Ion Ratio Lower Upper
83 100
85 32.3 53.7 80.5#



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN052171.D
Acq: 6 Nov 2018 2:08

Tgt Ion: 56 Resp: 7549
Ion Ratio Lower Upper
56 100
69 162.4 23.5 35.3#
84 117.0 68.7 103.1#

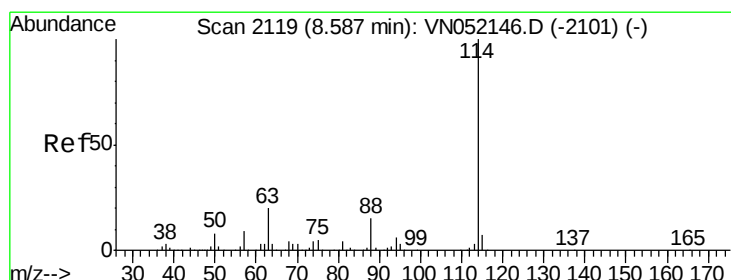
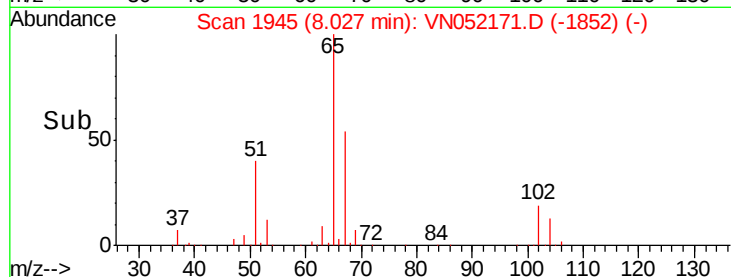
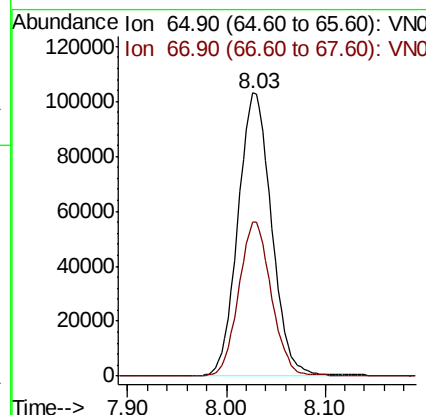
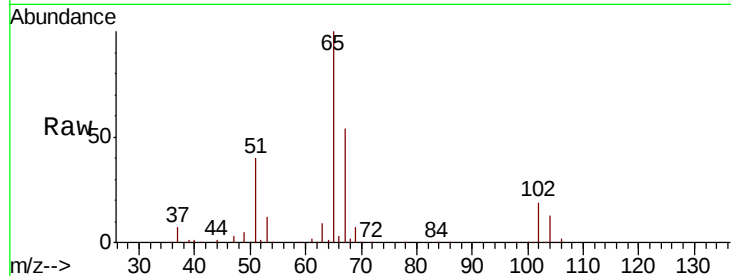




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052171.D
 Acq: 6 Nov 2018 2:08

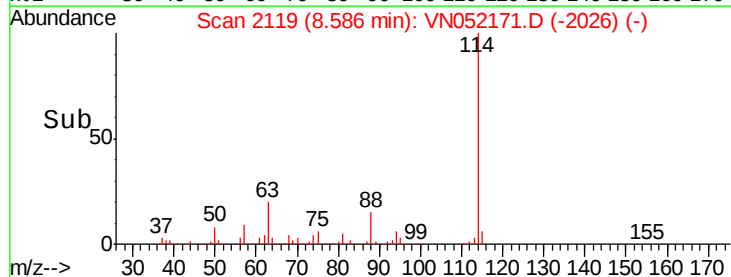
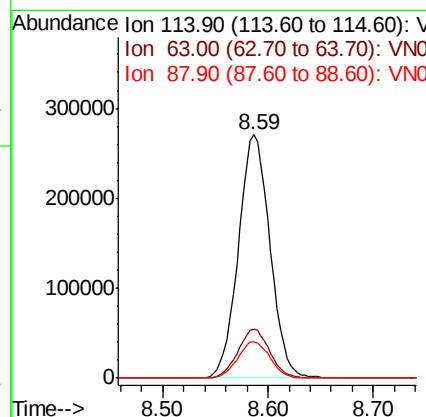
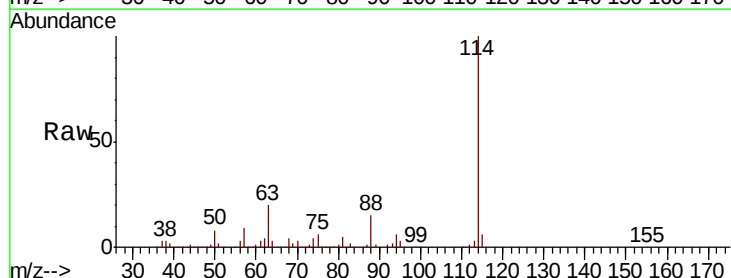
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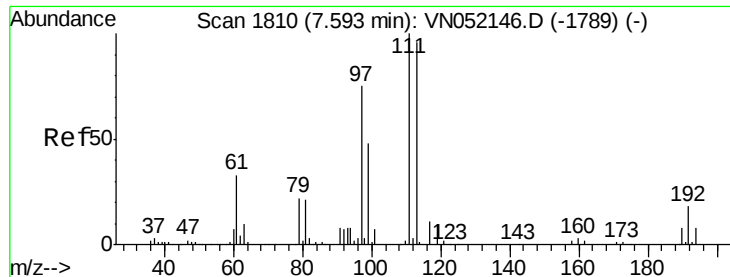
Tot Ion: 65 Resp: 244006
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052171.D
 Acq: 6 Nov 2018 2:08

Tgt Ion: 114 Resp: 561323
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 40.0
 88 14.9 0.0 31.0

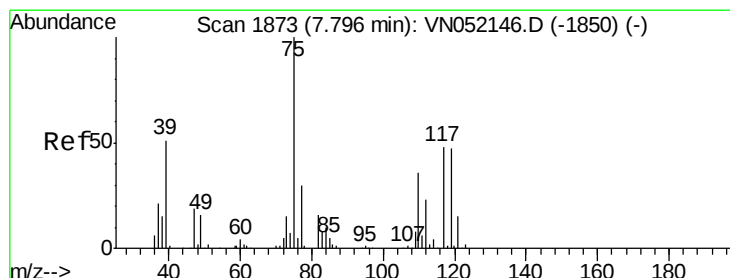
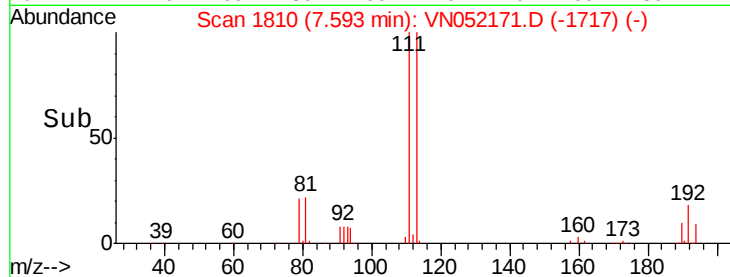
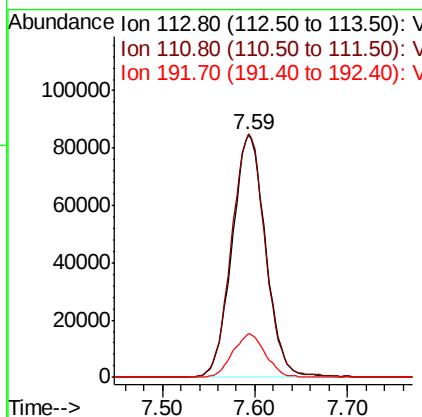
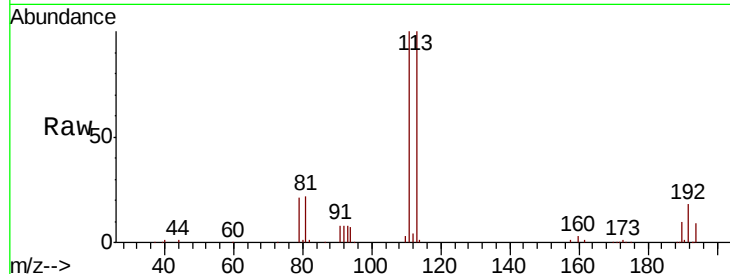




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN052171.D
 Acq: 6 Nov 2018 2:08

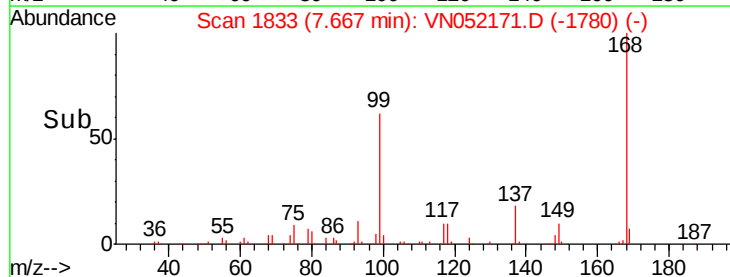
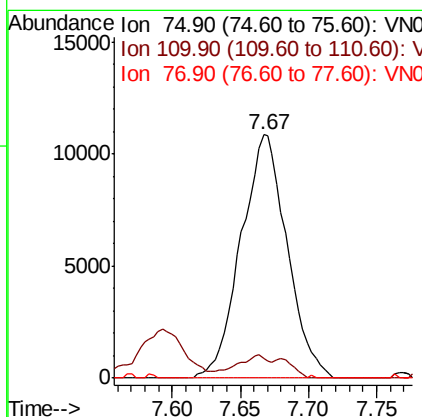
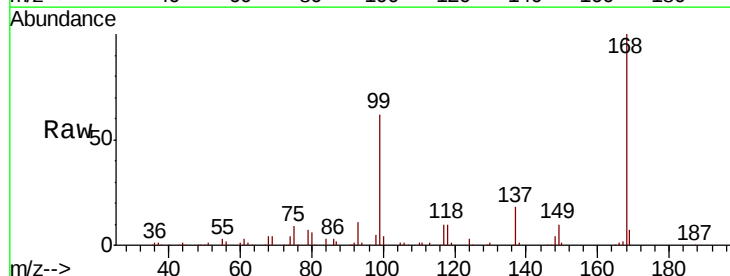
Instrument :
 MSVOA_N
 ClientSampleId :
 COMP-SAMPLES(6-10)

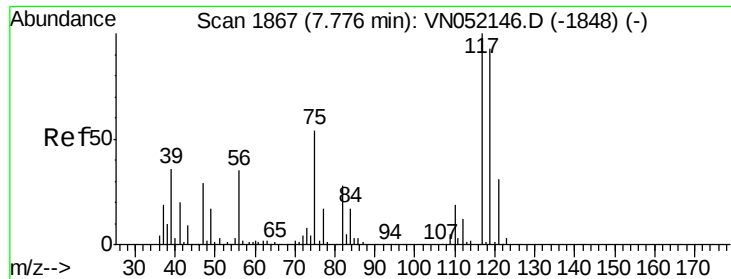
Tot Ion	Ratio	Lower	Upper
113	100		
111	100.3	81.7	122.5
192	17.5	14.2	21.4



#36
 1,1-Dichloropropene
 Concen: 5.137 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052171.D
 Acq: 6 Nov 2018 2:08

Tgt Ion	Ratio	Lower	Upper
75	100		
110	3.8	17.8	53.5#
77	0.0	24.0	36.0#





#38

Carbon Tetrachloride

Concen: 6.399 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN052171.D

Acq: 6 Nov 2018 2:08

Instrument :

MSVOA_N

ClientSampleId :

COMP-SAMPLES(6-10)

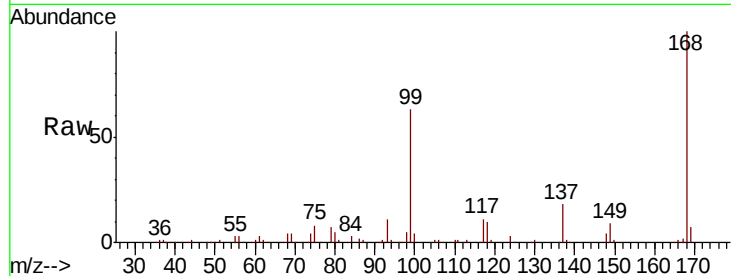
Tot Ion:117 Resp: 31768

Ion Ratio Lower Upper

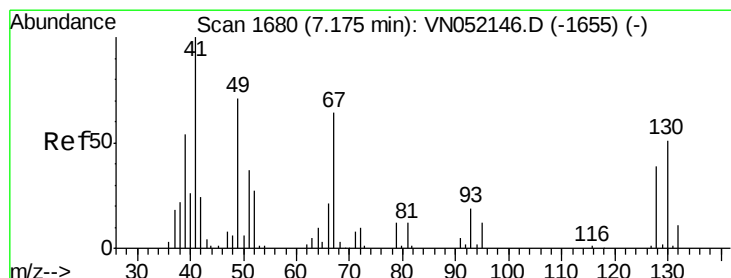
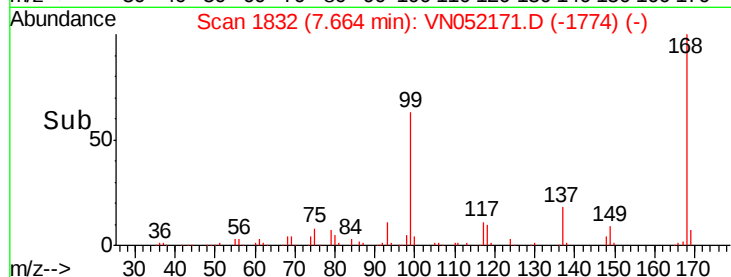
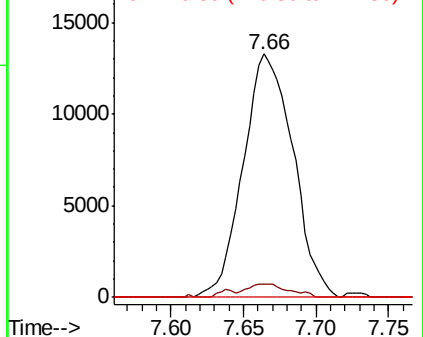
117 100

119 5.4 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: 1.455 ug/l

RT: 7.18 min Scan# 1682

Delta R.T. 0.01 min

Lab File: VN052171.D

Acq: 6 Nov 2018 2:08

Tgt Ion: 41 Resp: 107

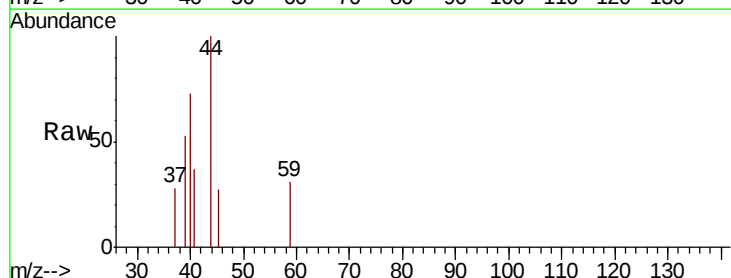
Ion Ratio Lower Upper

41 100

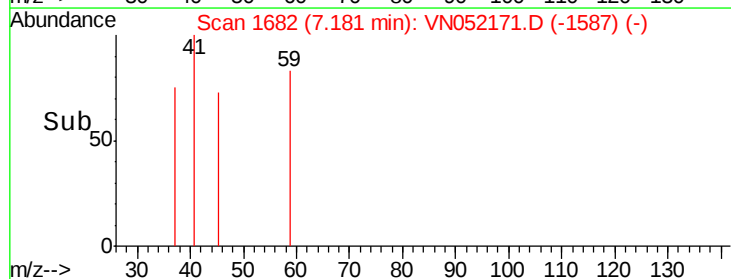
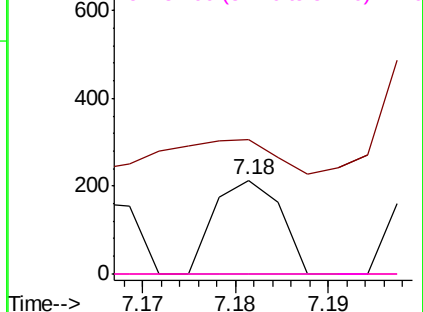
39 174.8 49.6 74.4#

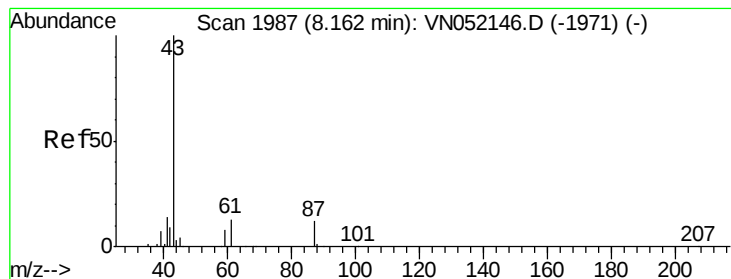
67 0.0 65.4 98.2#

52 0.0 27.2 40.8#



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





#43

Isopropyl Acetate

Concen: 28.099 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052171.D

Acq: 6 Nov 2018 2:08

Instrument :

MSVOA_N

ClientSampleId :

COMP-SAMPLES(6-10)

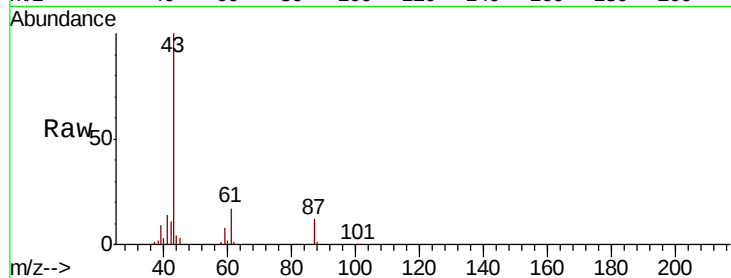
Tot Ion: 43 Resp: 159204

Ion Ratio Lower Upper

43 100

61 17.4 21.5 32.3#

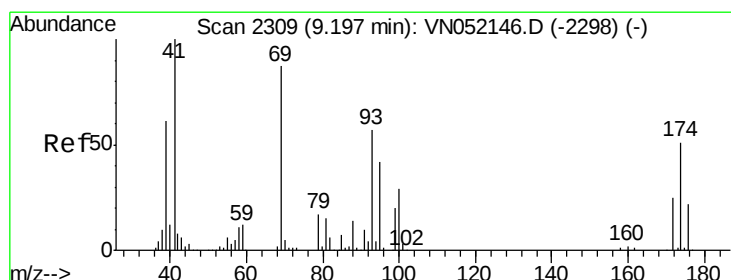
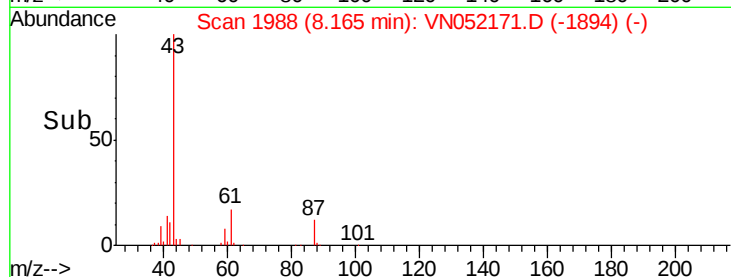
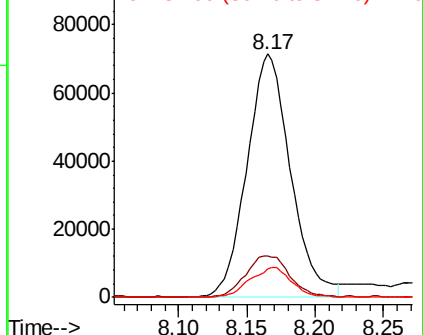
87 11.7 10.2 15.2



Abundance Ion 43.00 (42.70 to 43.70): VN052146.D (-1971) (-)

Ion 61.00 (60.70 to 61.70): VN052146.D (-1971) (-)

Ion 87.00 (86.70 to 87.70): VN052146.D (-1971) (-)



#48

Methyl methacrylate

Concen: 1.396 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. -0.01 min

Lab File: VN052171.D

Acq: 6 Nov 2018 2:08

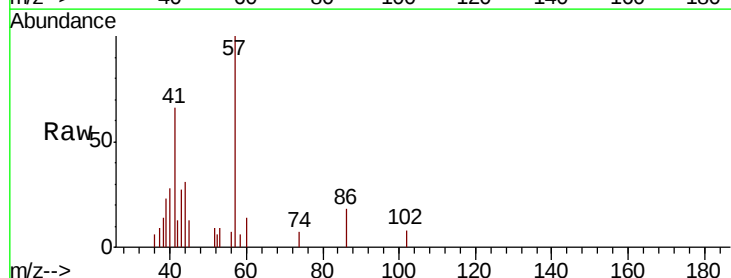
Tgt Ion: 41 Resp: 3808

Ion Ratio Lower Upper

41 100

69 4.4 69.7 104.5#

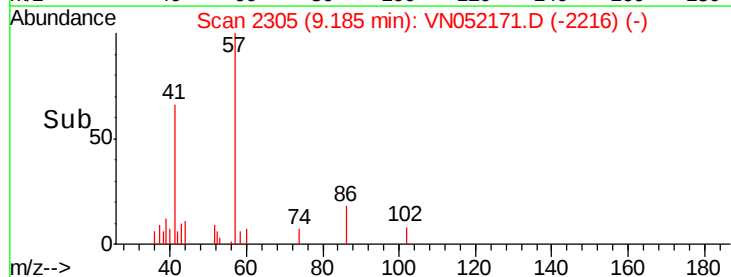
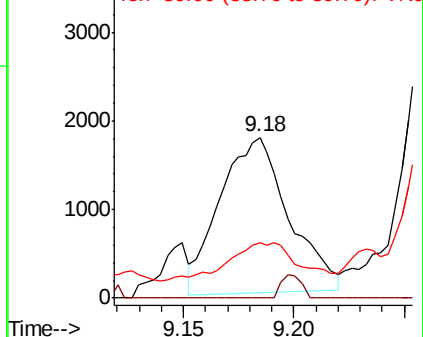
39 23.4 50.6 76.0#

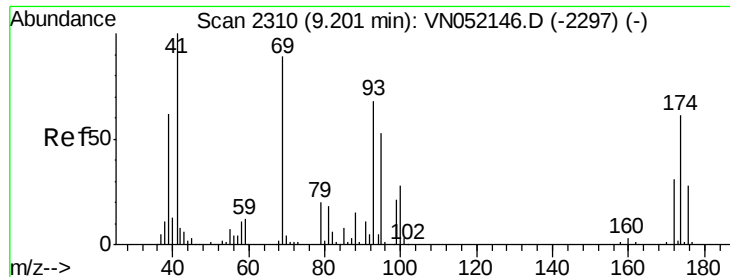


Abundance Ion 41.00 (40.70 to 41.70): VN052146.D (-2298) (-)

Ion 69.00 (68.70 to 69.70): VN052146.D (-2298) (-)

Ion 39.00 (38.70 to 39.70): VN052146.D (-2298) (-)





#49

1,4-Dioxane

Concen: Below Cal

RT: 9.42 min Scan# 2378

Delta R.T. 0.22 min

Lab File: VN052171.D

Acq: 6 Nov 2018 2:08

Instrument :

MSVOA_N

ClientSampleId :

COMP-SAMPLES(6-10)

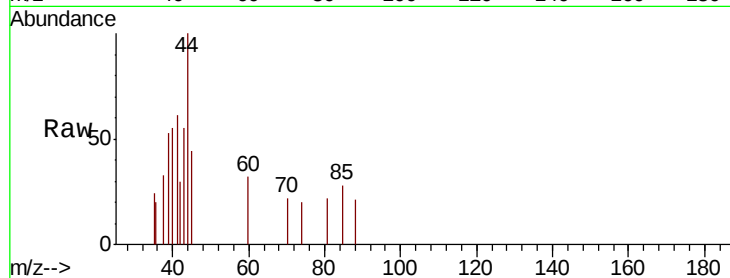
Tot Ion: 88 Resp: 32

Ion Ratio Lower Upper

88 100

43 0.0 33.0 49.6#

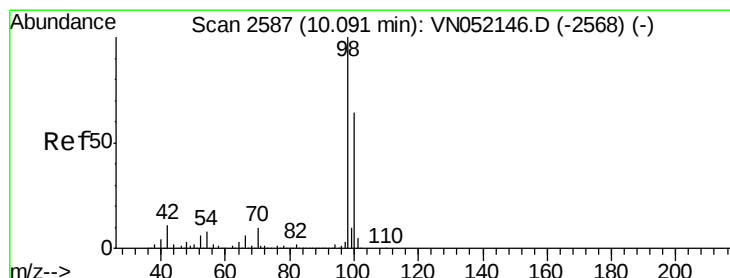
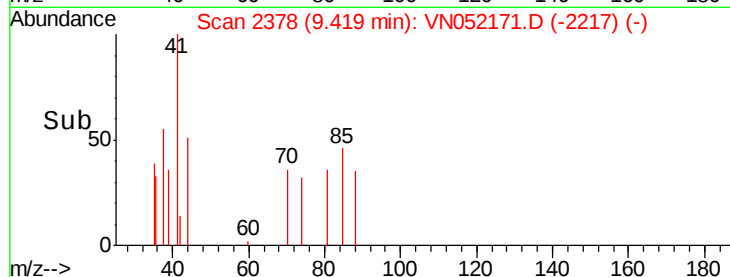
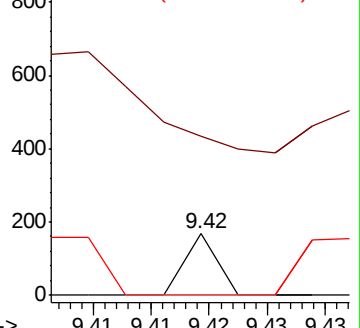
58 184.4 58.6 88.0#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052171.D

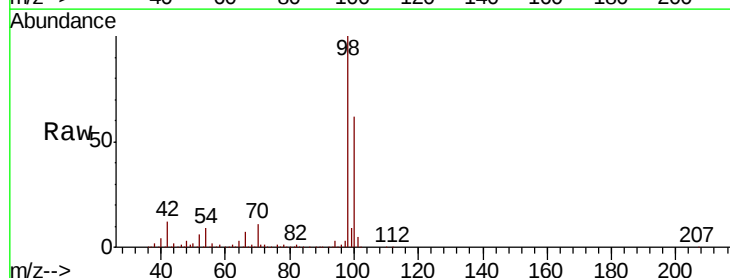
Acq: 6 Nov 2018 2:08

Tgt Ion: 98 Resp: 838179

Ion Ratio Lower Upper

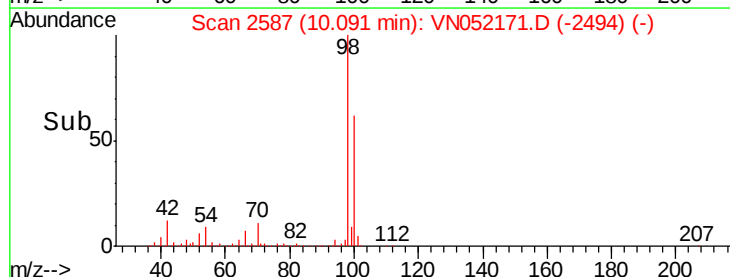
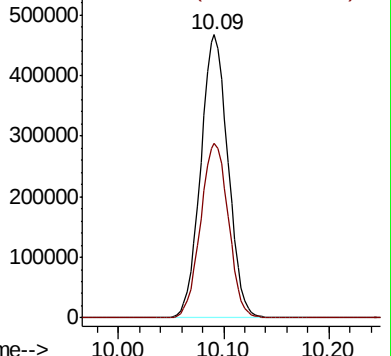
98 100

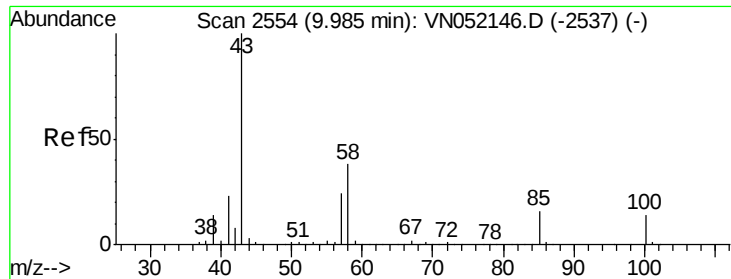
100 63.0 50.5 75.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.425 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN052171.D

Acq: 6 Nov 2018 2:08

Instrument :

MSVOA_N

ClientSampleId :

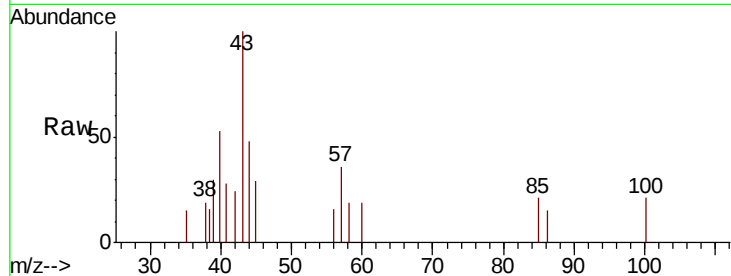
COMP-SAMPLES(6-10)

Tot Ion: 43 Resp: 1272

Ion Ratio Lower Upper

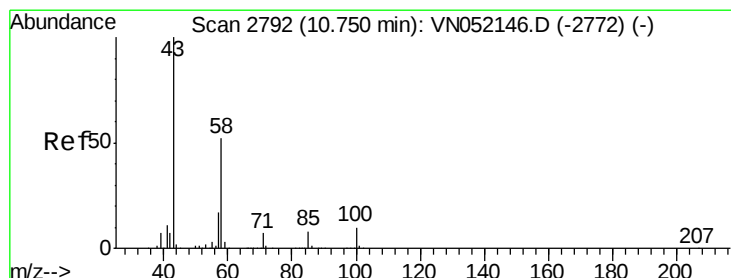
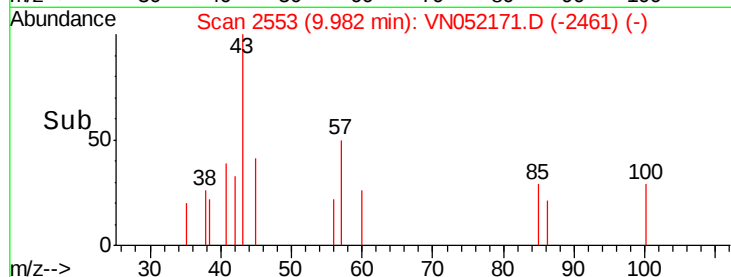
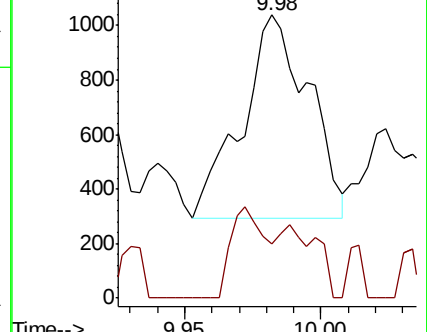
43 100

58 23.2 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) (-)



#59

2-Hexanone

Concen: 4.085 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN052171.D

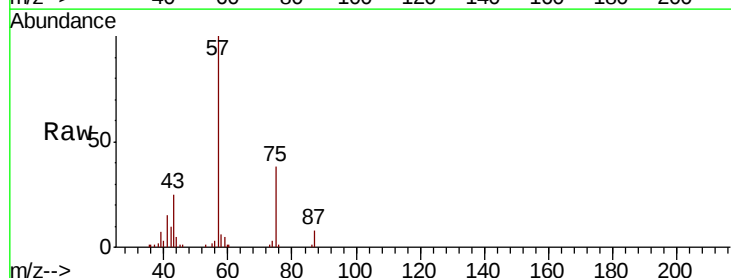
Acq: 6 Nov 2018 2:08

Tgt Ion: 43 Resp: 8512

Ion Ratio Lower Upper

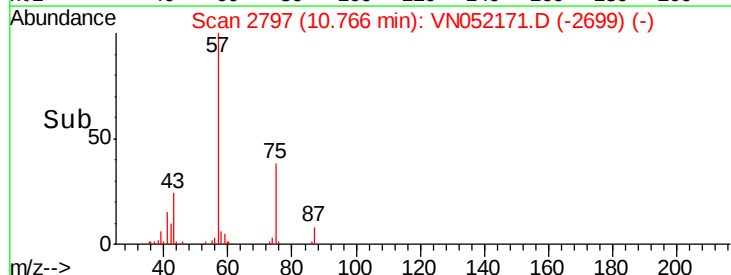
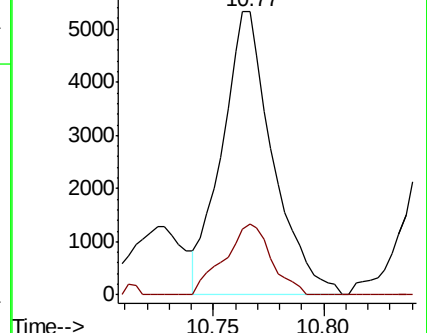
43 100

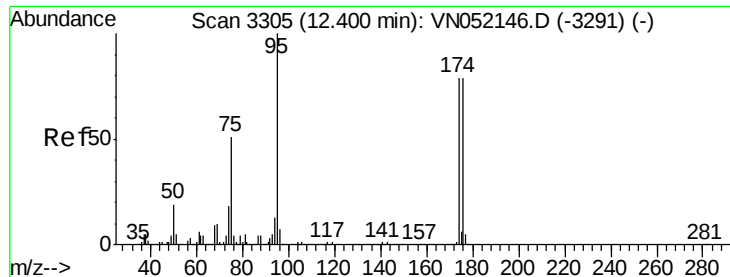
58 23.1 25.8 77.4#



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

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





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052171.D

Acq: 6 Nov 2018 2:08

Instrument :

MSVOA_N

ClientSampleId :

COMP-SAMPLES(6-10)

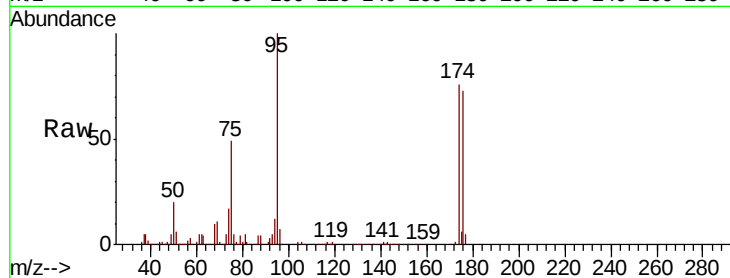
Tot Ion: 95 Resp: 277307

Ion Ratio Lower Upper

95 100

174 77.3 0.0 162.6

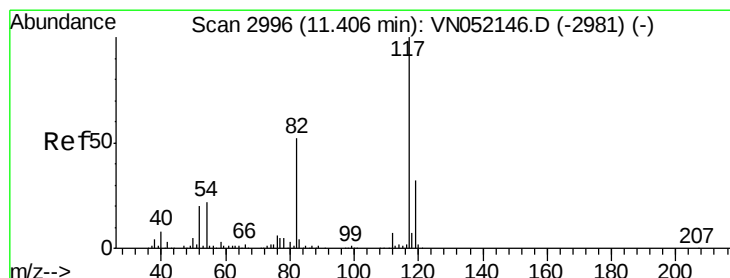
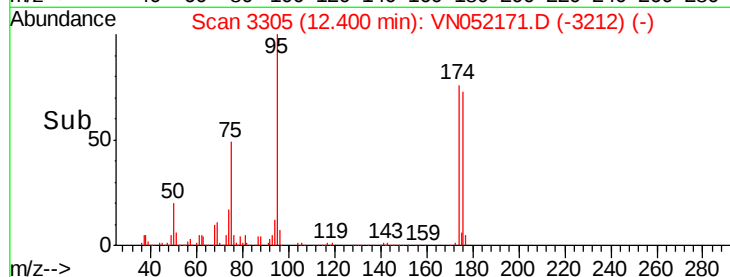
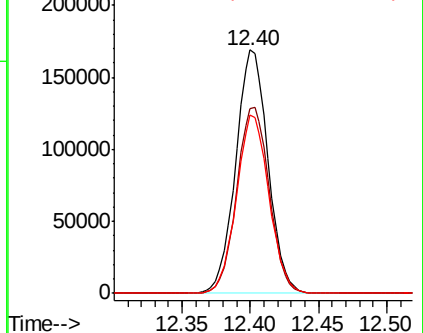
176 73.9 0.0 155.4



Abundance Ion 94.90 (94.60 to 95.60): VN052171.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN052171.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN052171.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN052171.D

Acq: 6 Nov 2018 2:08

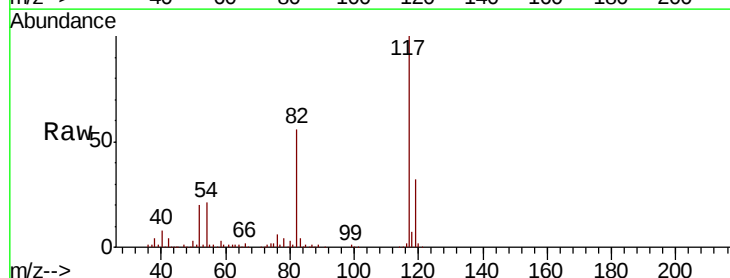
Tgt Ion: 117 Resp: 541960

Ion Ratio Lower Upper

117 100

82 55.8 41.9 62.9

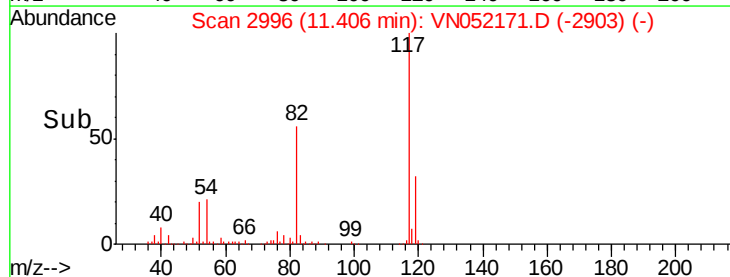
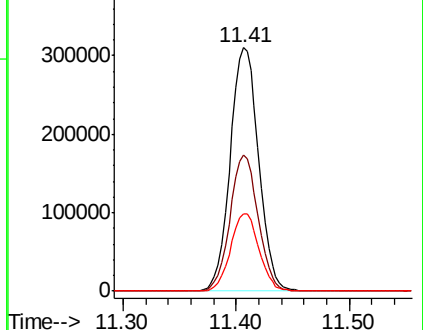
119 32.0 25.7 38.5

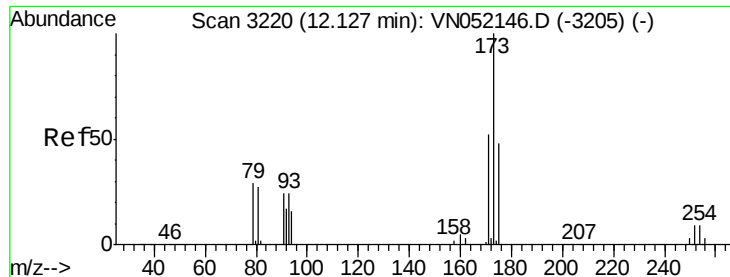


Abundance Ion 116.90 (116.60 to 117.60): VN052171.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN052171.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN052171.D (-2903) (-)





#71

Bromoform

Concen: 3.051 ug/l

RT: 12.39 min Scan# 3302

Delta R.T. 0.26 min

Lab File: VN052171.D

Acq: 6 Nov 2018 2:08

Instrument :

MSVOA_N

ClientSampleId :

COMP-SAMPLES(6-10)

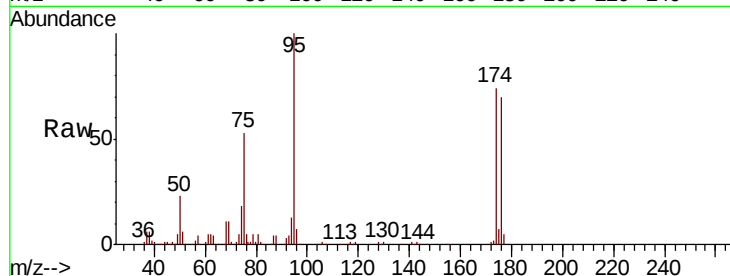
Tot Ion:173 Resp: 669

Ion Ratio Lower Upper

173 100

175 0.0 24.8 74.4#

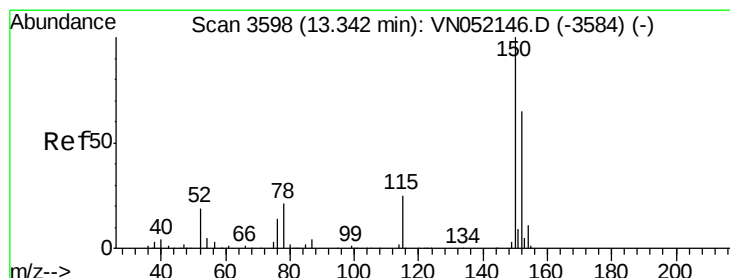
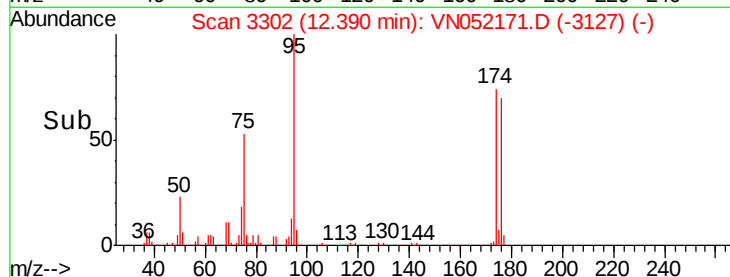
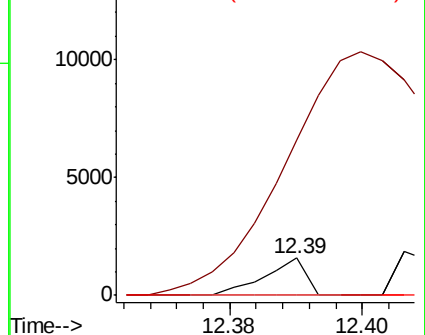
254 0.0 0.2 0.2#



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: VN052171.D

Acq: 6 Nov 2018 2:08

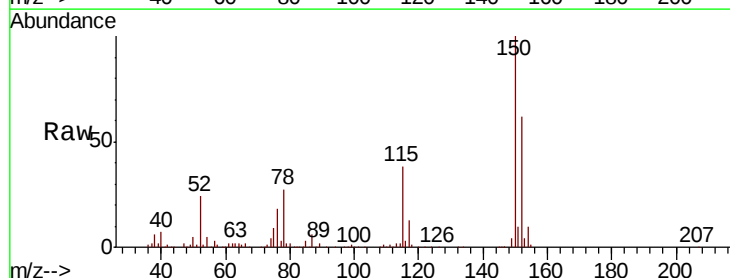
Tgt Ion:152 Resp: 216501

Ion Ratio Lower Upper

152 100

115 61.2 28.5 85.5

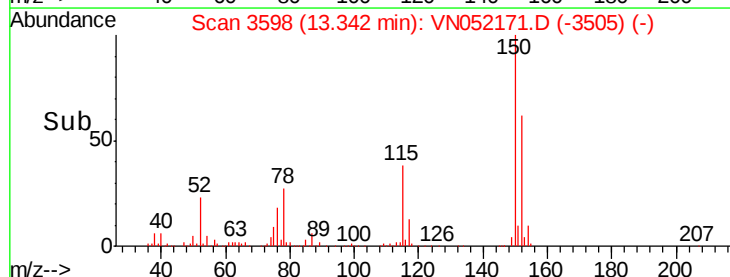
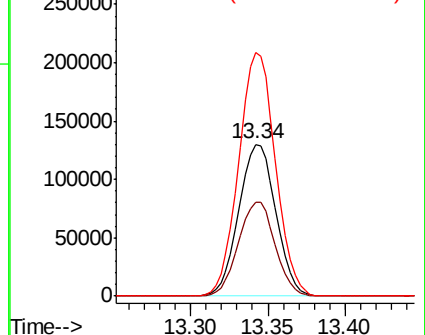
150 158.7 0.0 348.6

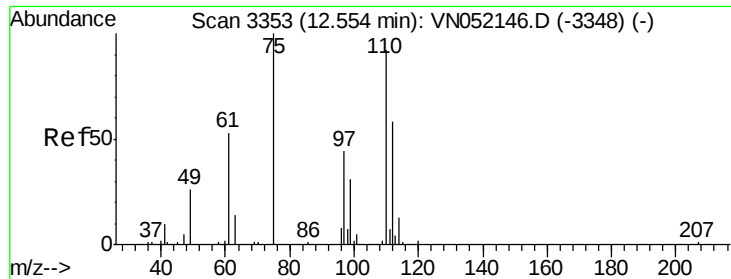


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 42.027 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052171.D

Acq: 6 Nov 2018 2:08

Instrument :

MSVOA_N

ClientSampleId :

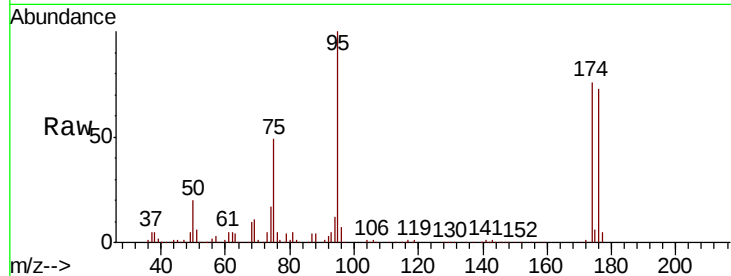
COMP-SAMPLES(6-10)

Tot Ion: 75 Resp: 143191

Ion Ratio Lower Upper

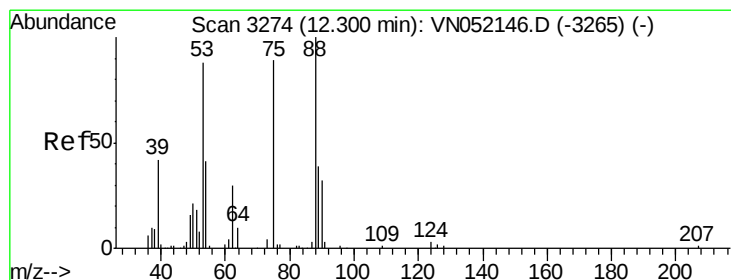
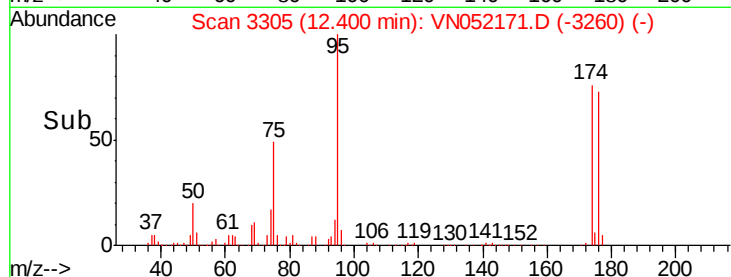
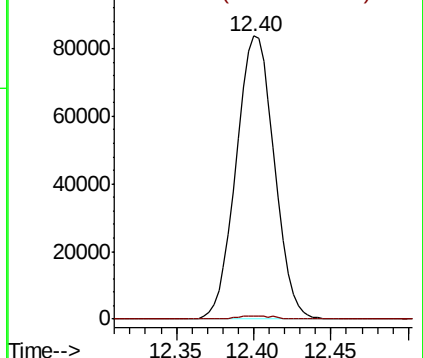
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 150.483 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052171.D

Acq: 6 Nov 2018 2:08

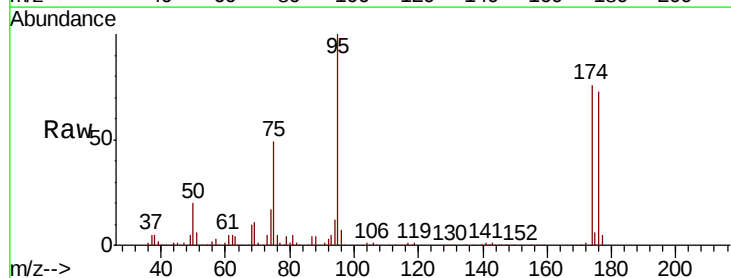
Tgt Ion: 75 Resp: 143191

Ion Ratio Lower Upper

75 100

53 0.2 79.4 119.0#

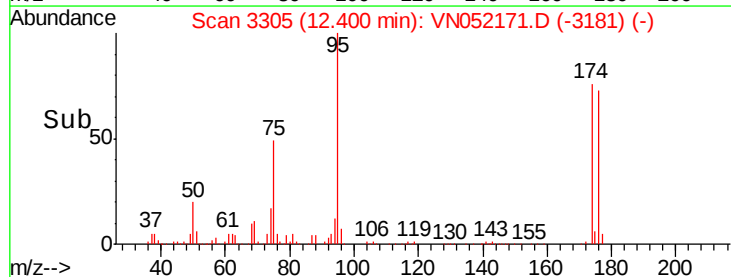
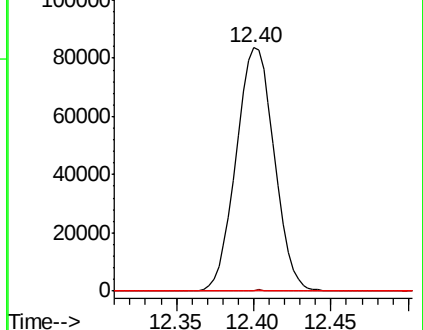
89 0.0 35.8 53.8#

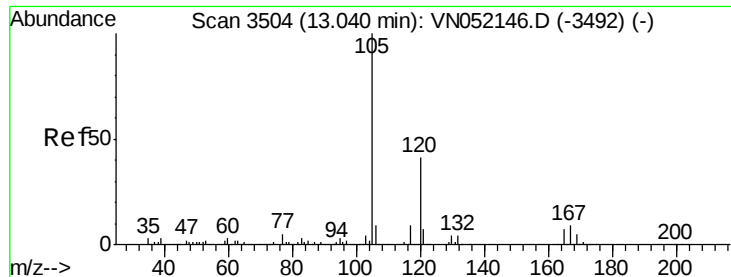


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

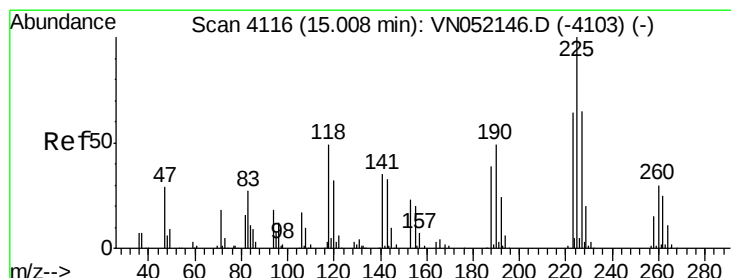
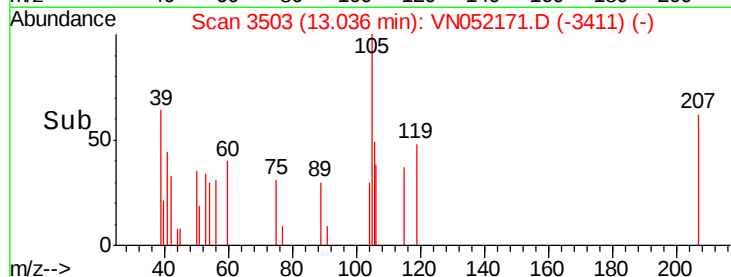
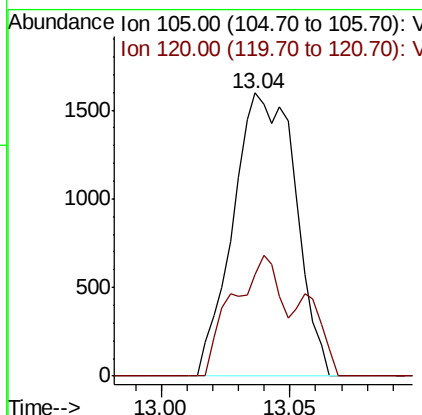
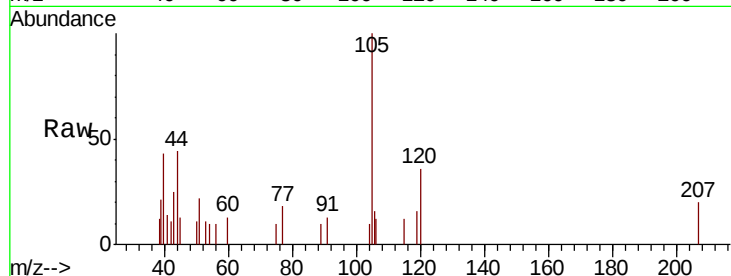




#84
 1,2,4-Trimethylbenzene
 Concen: 0.204 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. -0.00 min
 Lab File: VN052171.D
 Acq: 6 Nov 2018 2:08

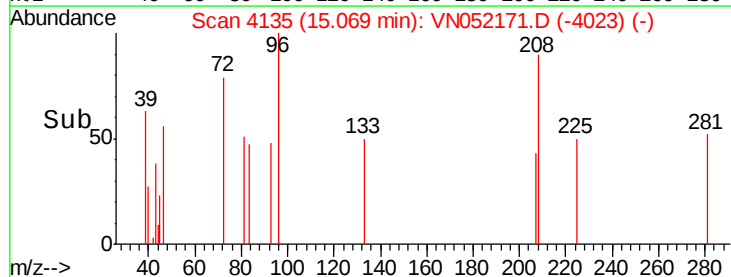
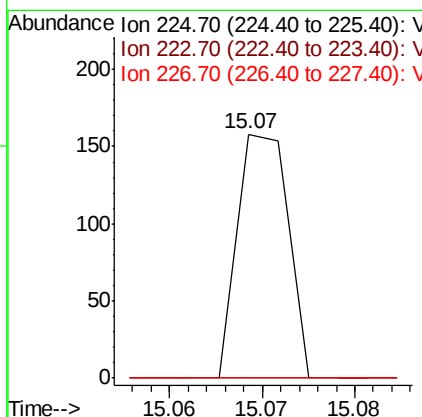
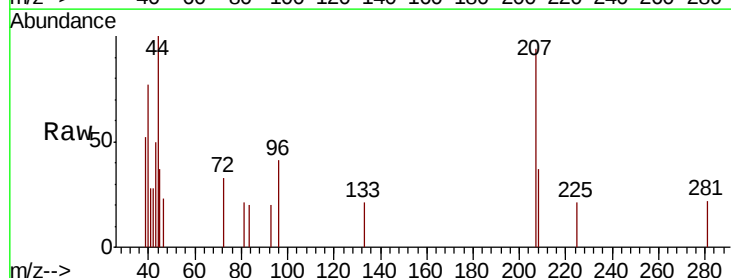
Instrument :
 MSVOA_N
 ClientSampleId :
 COMP-SAMPLES(6-10)

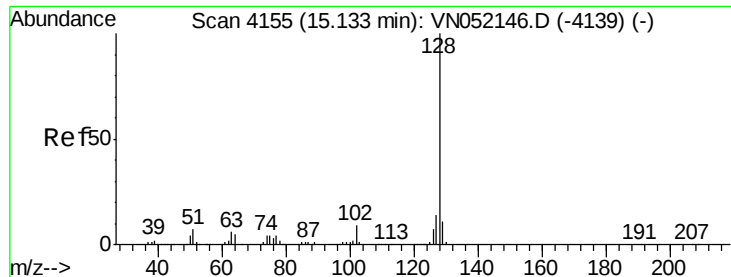
Tot Ion:105 Resp: 2692
 Ion Ratio Lower Upper
 105 100
 120 33.2 23.2 69.5



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.07 min Scan# 4135
 Delta R.T. 0.06 min
 Lab File: VN052171.D
 Acq: 6 Nov 2018 2:08

Tgt Ion:225 Resp: 60
 Ion Ratio Lower Upper
 225 100
 223 0.0 32.3 96.8#
 227 0.0 31.6 94.8#

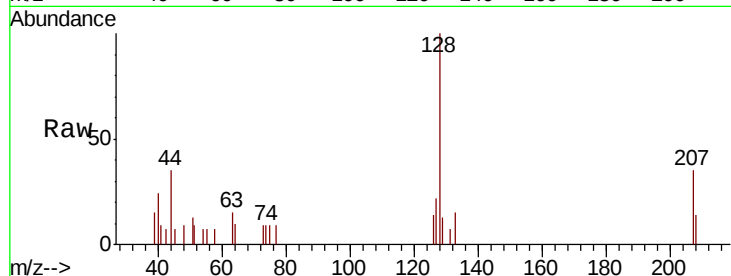




#95
Naphthalene
Concen: 0.658 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN052171.D
Acq: 6 Nov 2018 2:08

Instrument :
MSVOA_N
ClientSampleId :
COMP-SAMPLES(6-10)

Tot Ion	Ratio	Lower	Upper
128	100		
127	17.0	10.8	16.2#
129	10.1	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

