

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110518\
 Data File : VN052165.D
 Acq On : 5 Nov 2018 23:27
 Operator : MD\SY
 Sample : J5815-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 HL-R37719-RT

Quant Time: Nov 06 05:18:23 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	324857	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	584830	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	568730	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	238512	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	255496	66.33	ug/l	0.00
Spiked Amount			Recovery	=	132.66%	
35) Dibromofluoromethane	7.59	113	221014	60.87	ug/l	0.00
Spiked Amount			Recovery	=	121.74%	
50) Toluene-d8	10.09	98	872860	62.18	ug/l	0.00
Spiked Amount			Recovery	=	124.36%	
62) 4-Bromofluorobenzene	12.40	95	290561	63.05	ug/l	0.00
Spiked Amount			Recovery	=	126.10%	

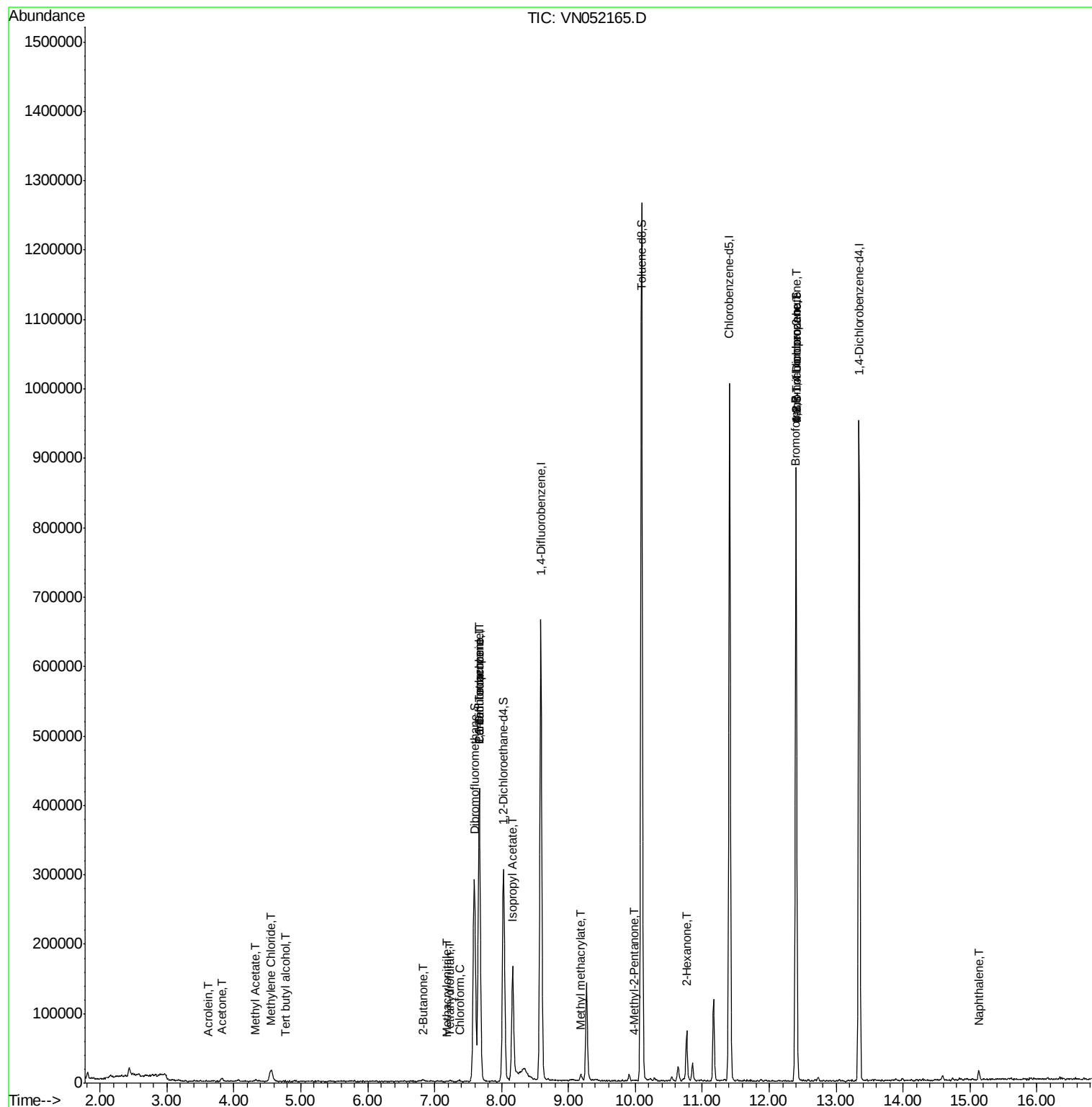
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.76	59	184	1.099	ug/l #	79
13) Acrolein	3.61	56	147	32.756	ug/l #	14
16) Acetone	3.82	43	5982	6.854	ug/l #	84
18) Methyl Acetate	4.33	43	2533	0.913	ug/l #	90
20) Methylene Chloride	4.55	84	8032	2.215	ug/l #	89
25) 2-Butanone	6.83	43	576	0.426	ug/l #	48
29) Tetrahydrofuran	7.22	42	857	1.023	ug/l #	46
30) Chloroform	7.37	83	1262	0.203	ug/l	89
31) Cyclohexane	7.67	56	8075	Below Cal	#	20
36) 1,1-Dichloropropene	7.66	75	27218	5.261	ug/l #	50
38) Carbon Tetrachloride	7.67	117	33128	6.405	ug/l #	17
41) Methacrylonitrile	7.18	41	171	1.487	ug/l #	25
43) Isopropyl Acetate	8.17	43	202982	34.386	ug/l #	87
48) Methyl methacrylate	9.18	41	4781	1.683	ug/l #	18
51) 4-Methyl-2-Pentanone	9.98	43	1088	0.349	ug/l #	74
59) 2-Hexanone	10.76	43	10713	4.935	ug/l #	55
71) Bromoform	12.39	173	367	2.929	ug/l #	28
76) 1,2,3-Trichloropropane	12.40	75	150128	39.996	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	150128	143.213	ug/l #	10
95) Naphthalene	15.13	128	10304	1.411	ug/l	97

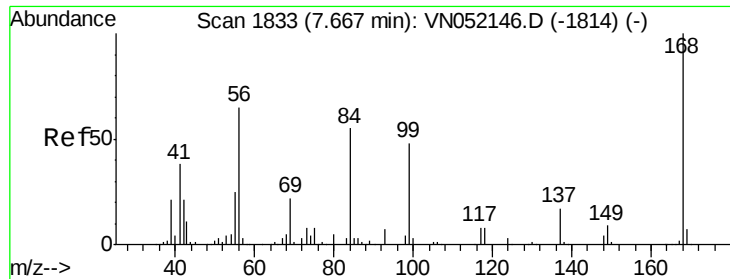
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN110518\
Data File : VN052165.D
Acq On : 5 Nov 2018 23:27
Operator : MD\SY
Sample : J5815-02
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 25 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
HL-R37719-RT

Quant Time: Nov 06 05:18:23 2018
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# 1833

Delta R.T. 0.00 min

Lab File: VN052165.D

Acq: 5 Nov 2018 23:27

Instrument :

MSVOA_N

ClientSampleId :

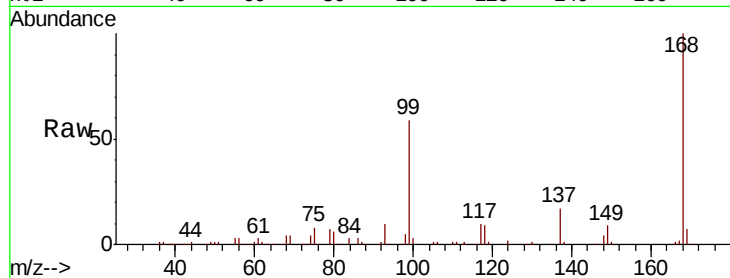
HL-R37719-RT

Tot Ion:168 Resp: 324857

Ion Ratio Lower Upper

168 100

99 59.0 45.4 68.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

150000

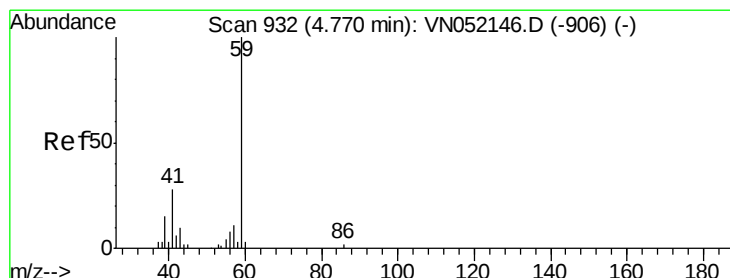
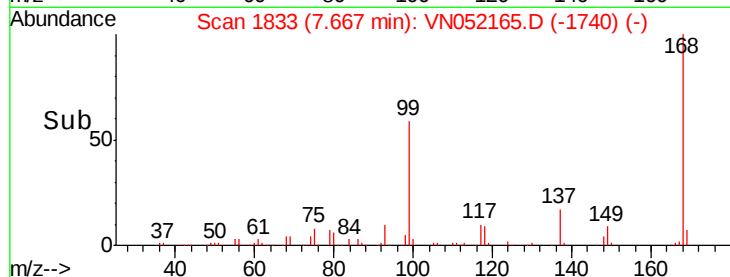
100000

50000

0

Time-->

7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 1.099 ug/l

RT: 4.76 min Scan# 930

Delta R.T. -0.01 min

Lab File: VN052165.D

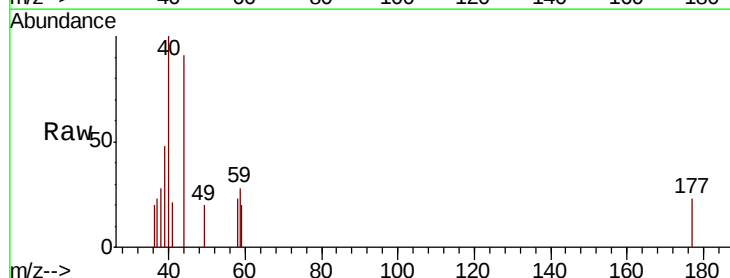
Acq: 5 Nov 2018 23:27

Tgt Ion: 59 Resp: 184

Ion Ratio Lower Upper

59 100

57 0.0 5.7 8.5#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.76

400

300

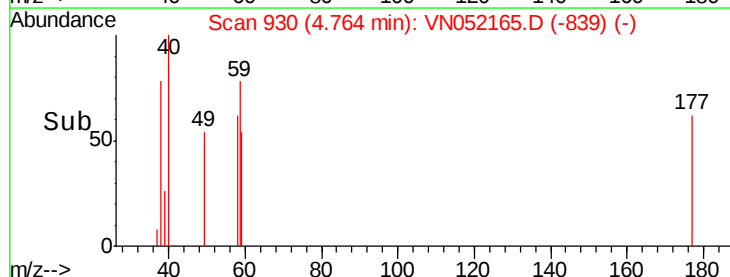
200

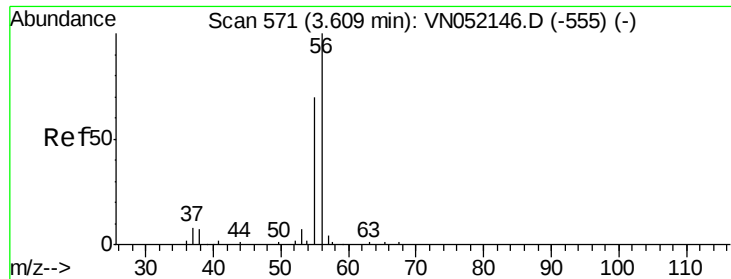
100

0

Time-->

4.75 4.76 4.77





#13

Acrolein

Concen: 32.756 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052165.D

Acq: 5 Nov 2018 23:27

Instrument :

MSVOA_N

ClientSampleId :

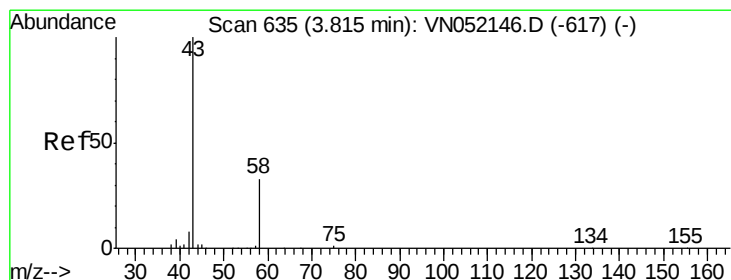
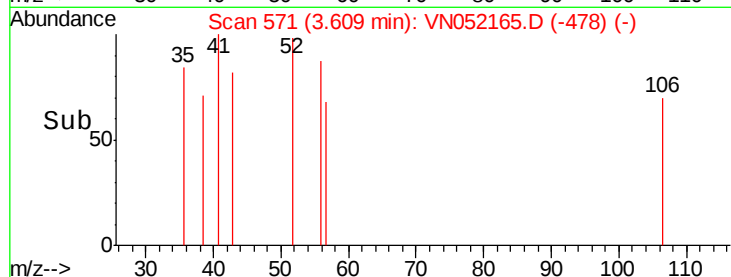
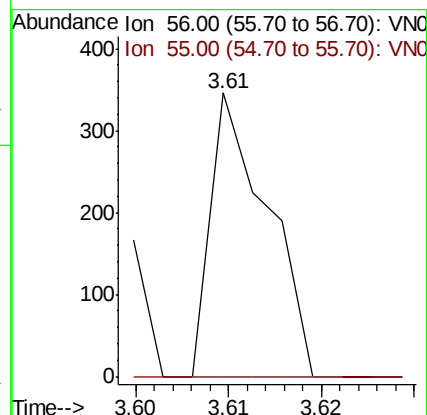
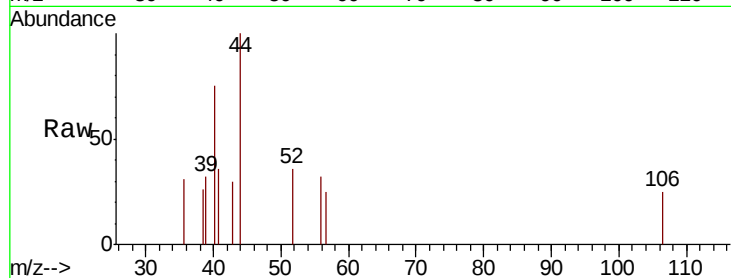
HL-R37719-RT

Tot Ion: 56 Resp: 147

Ion Ratio Lower Upper

56 100

55 0.0 56.6 84.8#



#16

Acetone

Concen: 6.854 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052165.D

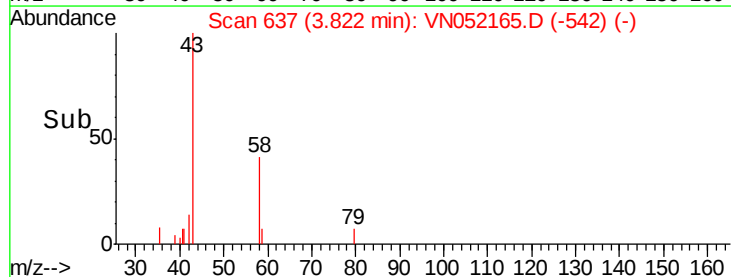
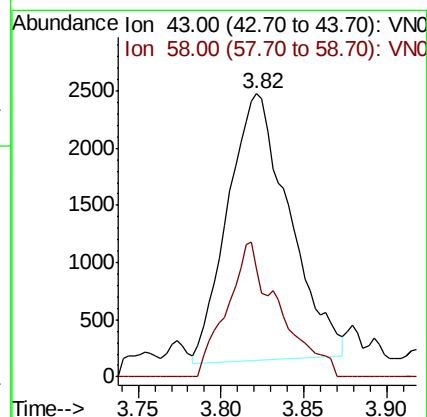
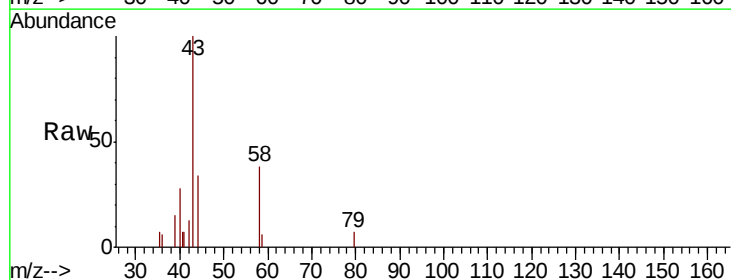
Acq: 5 Nov 2018 23:27

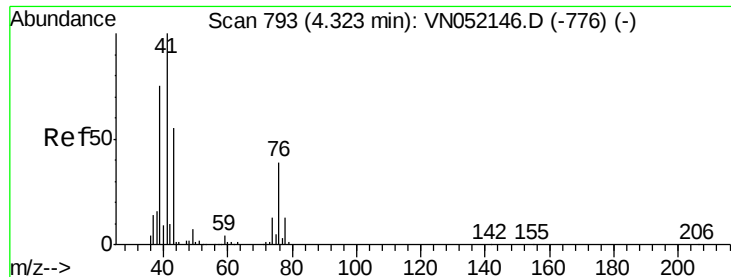
Tgt Ion: 43 Resp: 5982

Ion Ratio Lower Upper

43 100

58 41.5 26.2 39.2#

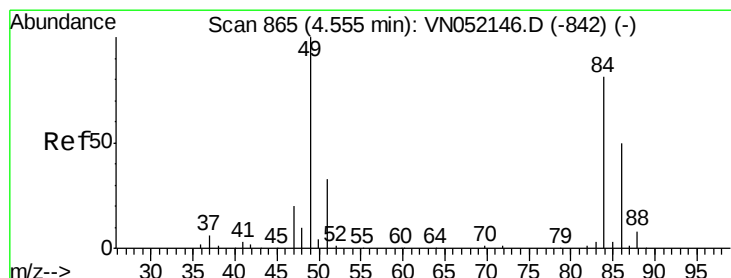
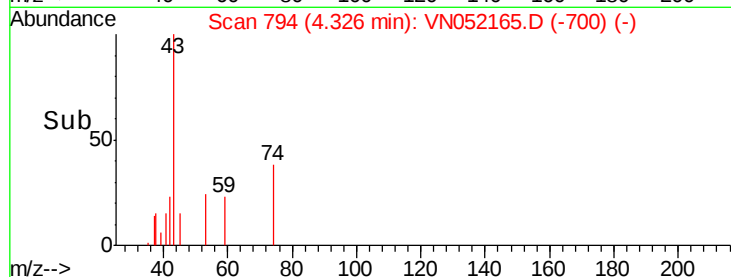
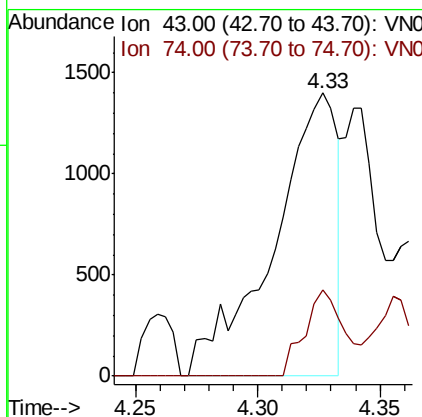
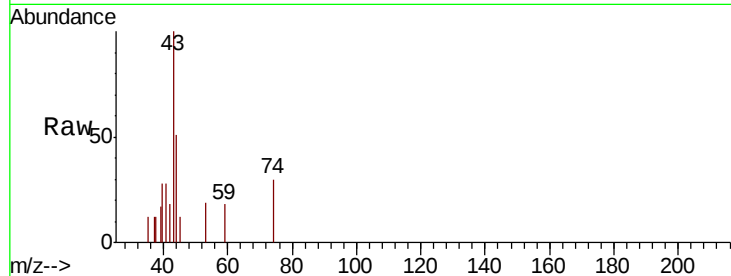




#18
Methyl Acetate
Concen: 0.913 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN052165.D
Acq: 5 Nov 2018 23:27

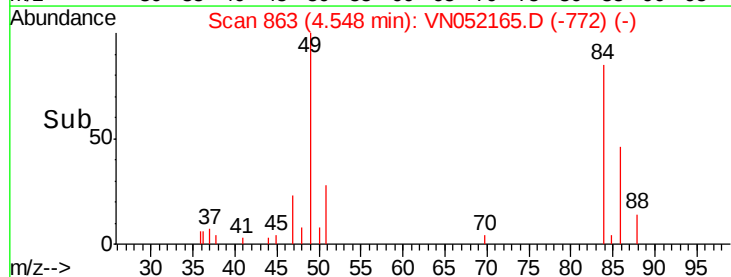
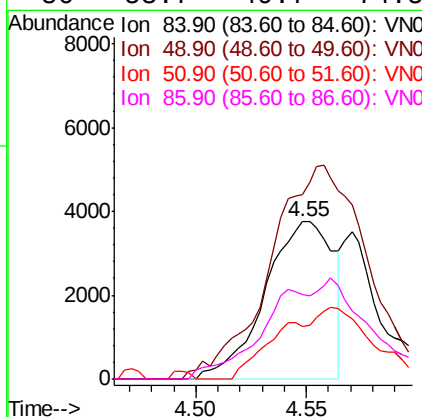
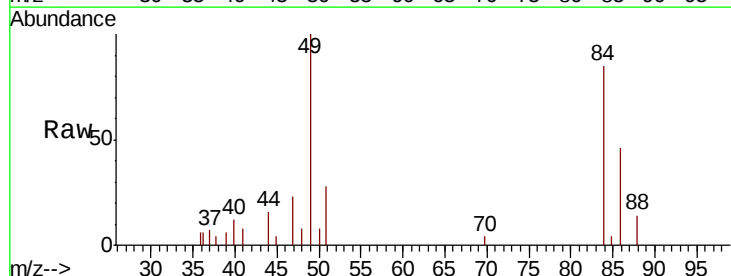
Instrument :
MSVOA_N
ClientSampleId :
HL-R37719-RT

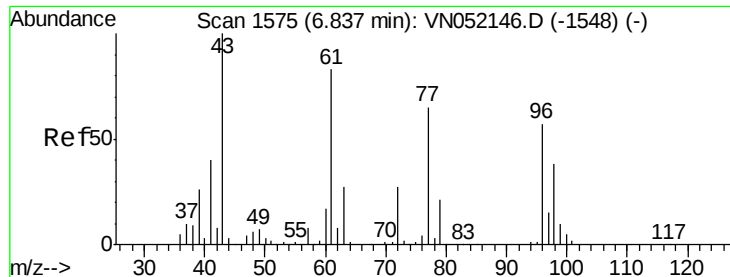
Tot Ion: 43 Resp: 2533
Ion Ratio Lower Upper
43 100
74 19.1 19.3 28.9#



#20
Methylene Chloride
Concen: 2.215 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.01 min
Lab File: VN052165.D
Acq: 5 Nov 2018 23:27

Tgt Ion: 84 Resp: 8032
Ion Ratio Lower Upper
84 100
49 112.5 98.4 147.6
51 28.9 32.5 48.7#
86 53.7 49.7 74.5





#25

2-Butanone

Concen: 0.426 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VN052165.D

Acq: 5 Nov 2018 23:27

Instrument :

MSVOA_N

ClientSampleId :

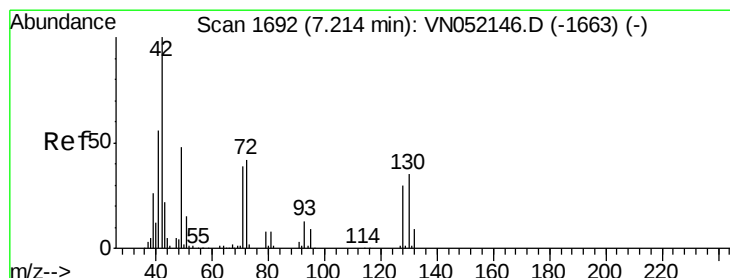
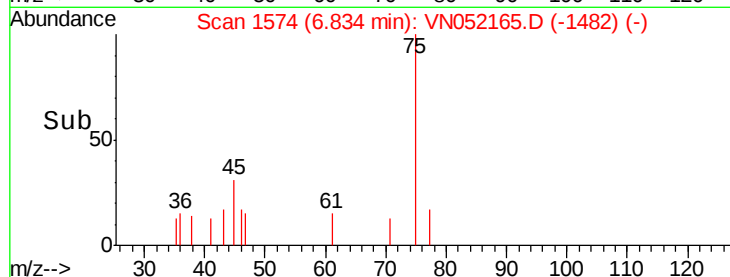
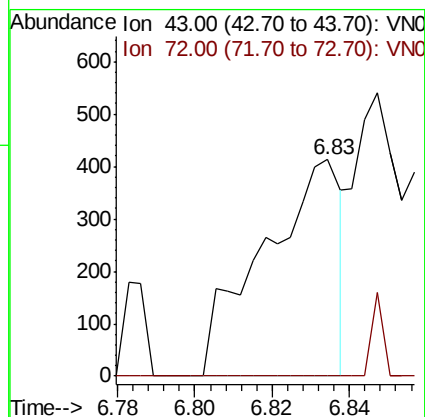
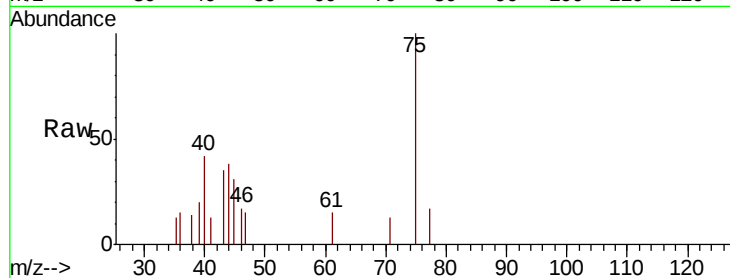
HL-R37719-RT

Tot Ion: 43 Resp: 576

Ion Ratio Lower Upper

43 100

72 0.0 21.4 32.2#



#29

Tetrahydrofuran

Concen: 1.023 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.00 min

Lab File: VN052165.D

Acq: 5 Nov 2018 23:27

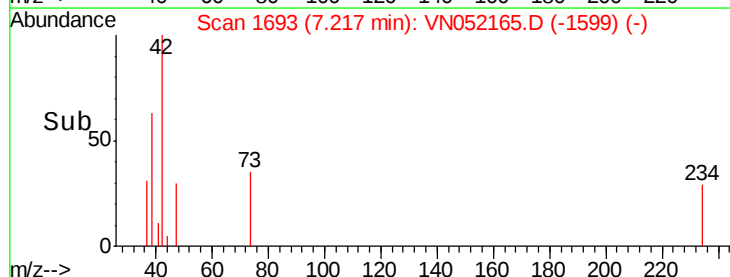
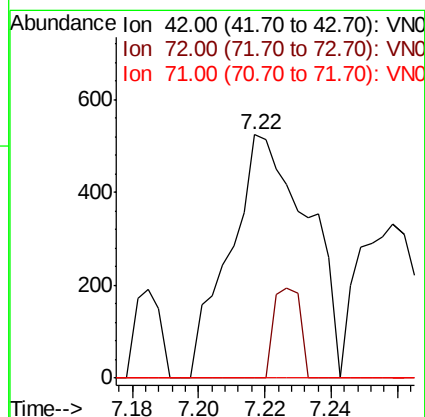
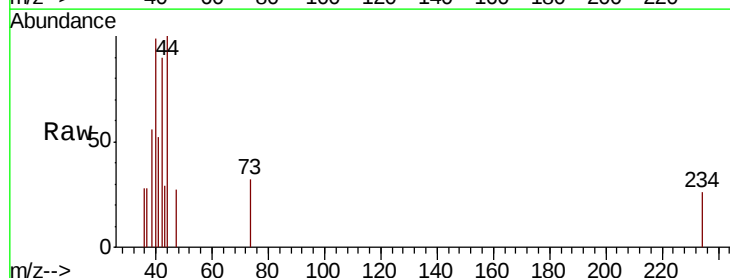
Tgt Ion: 42 Resp: 857

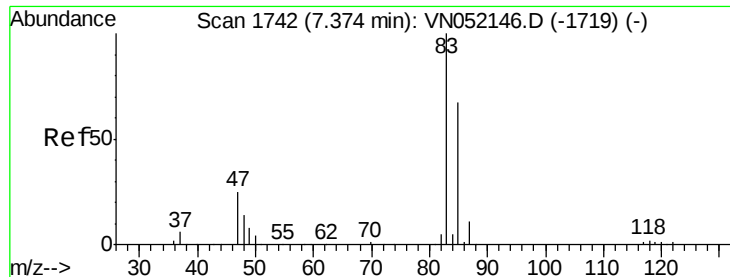
Ion Ratio Lower Upper

42 100

72 12.5 32.3 48.5#

71 0.0 31.0 46.6#

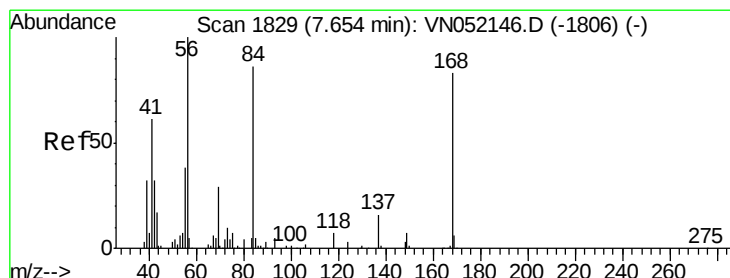
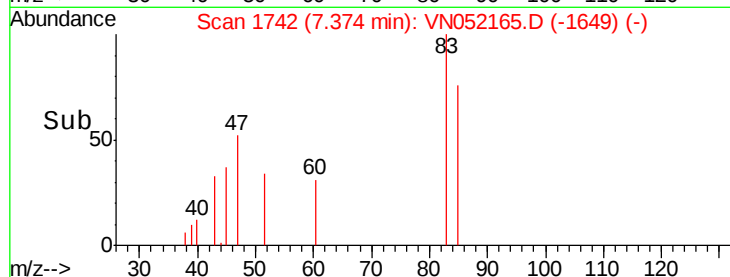
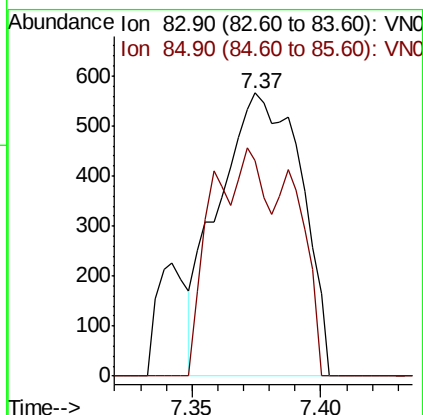
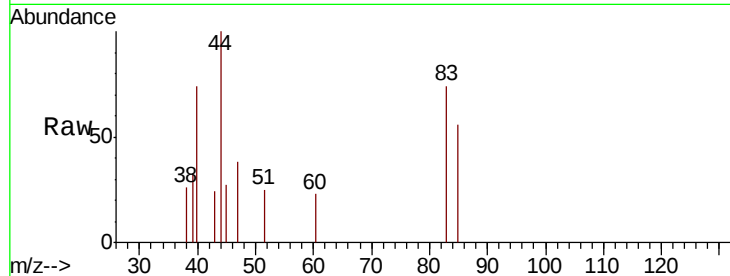




#30
Chloroform
Concen: 0.203 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052165.D
Acq: 5 Nov 2018 23:27

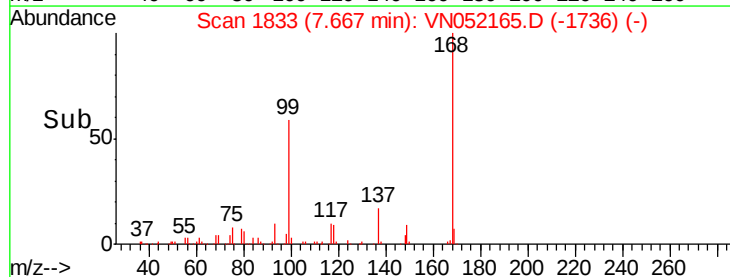
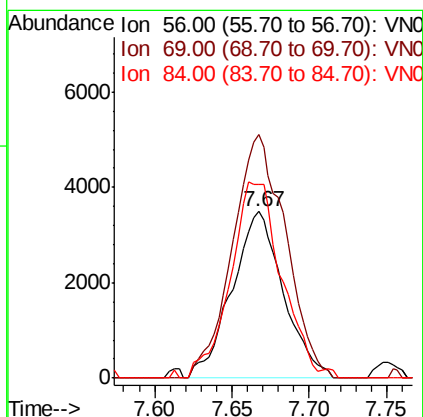
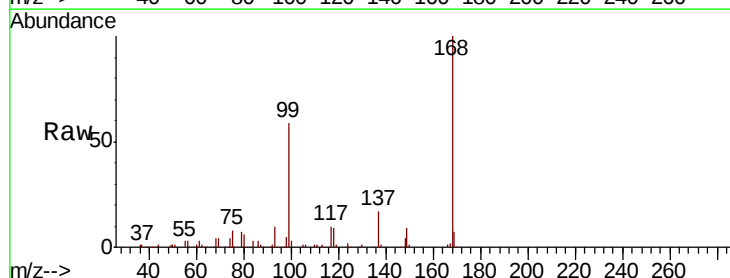
Instrument :
MSVOA_N
ClientSampleId :
HL-R37719-RT

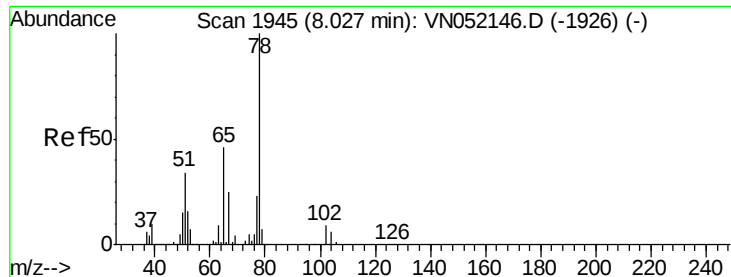
Tot Ion: 83 Resp: 1262
Ion Ratio Lower Upper
83 100
85 76.0 53.7 80.5



#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN052165.D
Acq: 5 Nov 2018 23:27

Tgt Ion: 56 Resp: 8075
Ion Ratio Lower Upper
56 100
69 146.2 23.5 35.3#
84 116.0 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: VN052165.D

Acq: 5 Nov 2018 23:27

Instrument :

MSVOA_N

ClientSampleId :

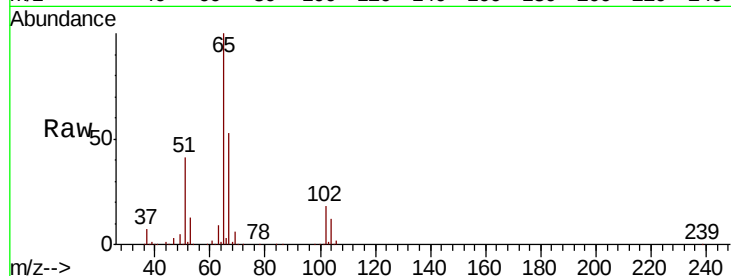
HL-R37719-RT

Tot Ion: 65 Resp: 255496

Ion Ratio Lower Upper

65 100

67 52.8 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN052146.D (-1926) (-)

Ion 66.90 (66.60 to 67.60): VN052146.D (-1926) (-)

8.03

120000

100000

80000

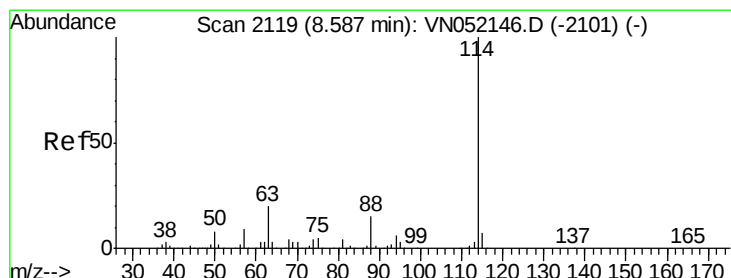
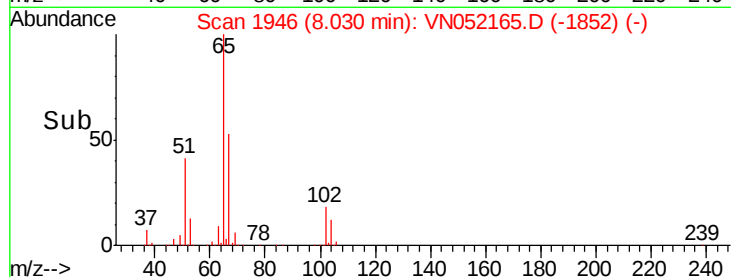
60000

40000

20000

0

Time--> 7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052165.D

Acq: 5 Nov 2018 23:27

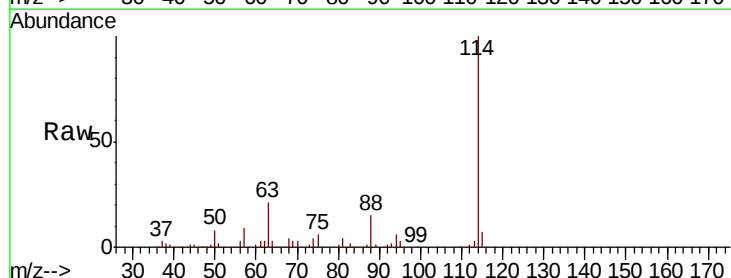
Tgt Ion: 114 Resp: 584830

Ion Ratio Lower Upper

114 100

63 20.8 0.0 40.0

88 15.4 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): VN052146.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN052146.D (-2101) (-)

Ion 87.90 (87.60 to 88.60): VN052146.D (-2101) (-)

8.59

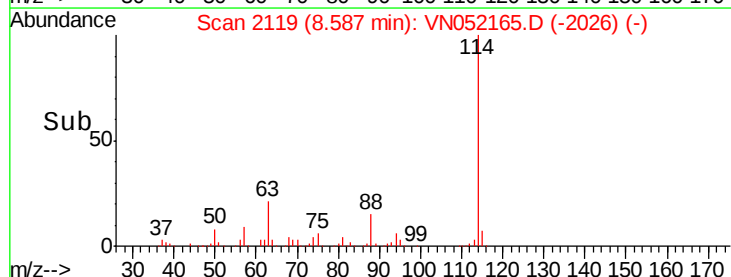
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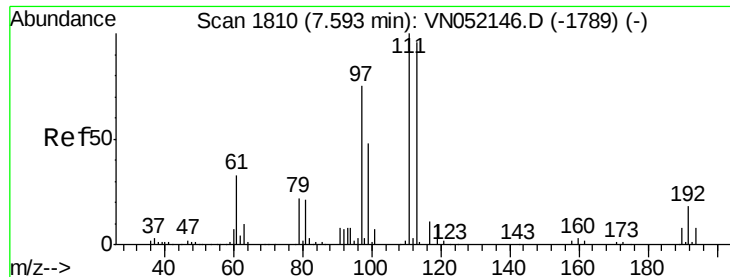
200000

100000

0

Time--> 8.50 8.60 8.70

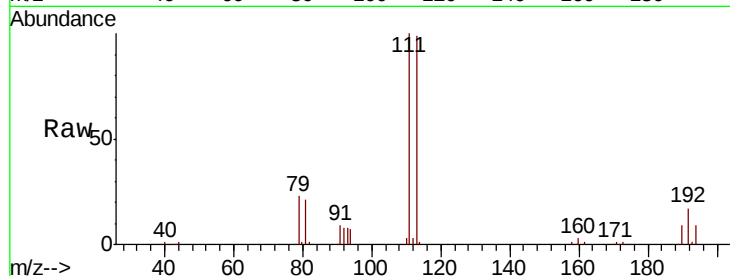




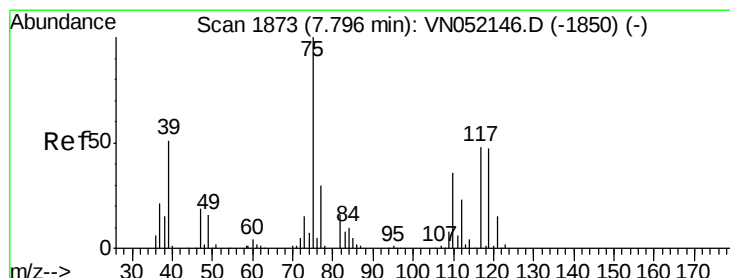
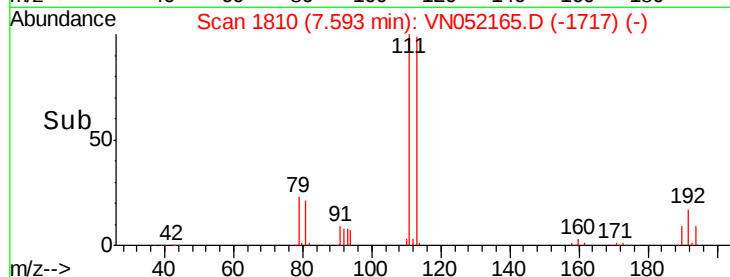
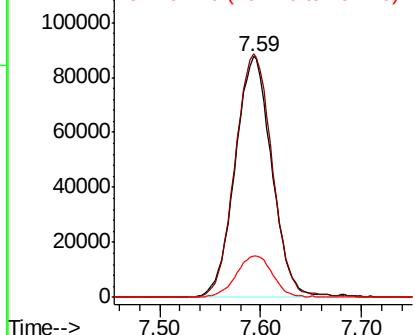
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052165.D
 Acq: 5 Nov 2018 23:27

Instrument :
 MSVOA_N
 ClientSampleId :
 HL-R37719-RT

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.7	122.5
192	17.2	14.2	21.4

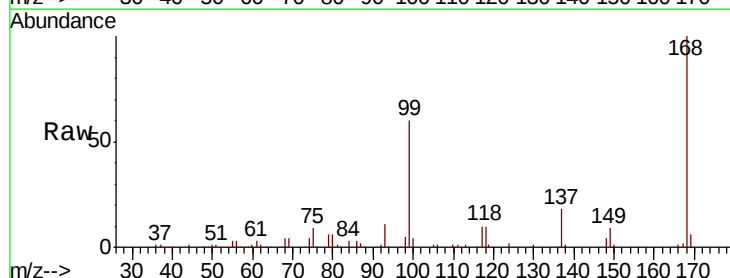


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

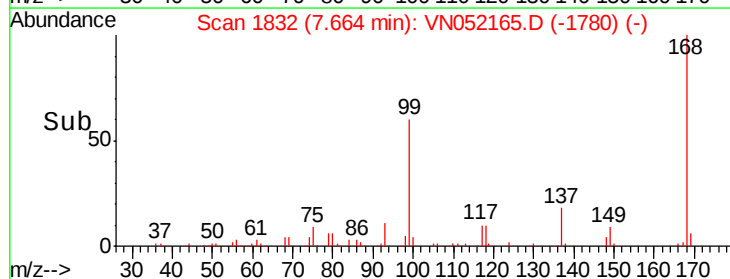
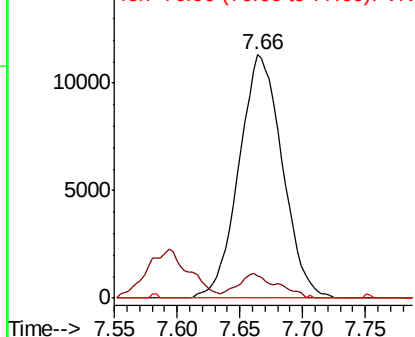


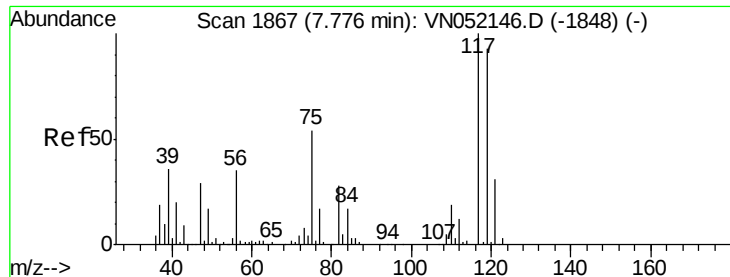
#36
 1,1-Dichloropropene
 Concen: 5.261 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN052165.D
 Acq: 5 Nov 2018 23:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.1	17.8	53.5#
77	0.0	24.0	36.0#



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





#38

Carbon Tetrachloride

Concen: 6.405 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN052165.D

Acq: 5 Nov 2018 23:27

Instrument :

MSVOA_N

ClientSampleId :

HL-R37719-RT

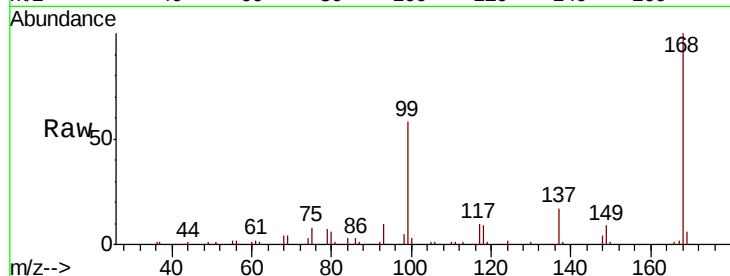
Tot Ion:117 Resp: 33128

Ion Ratio Lower Upper

117 100

119 5.4 74.7 112.1#

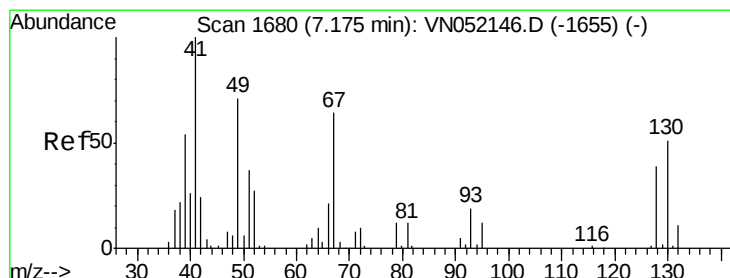
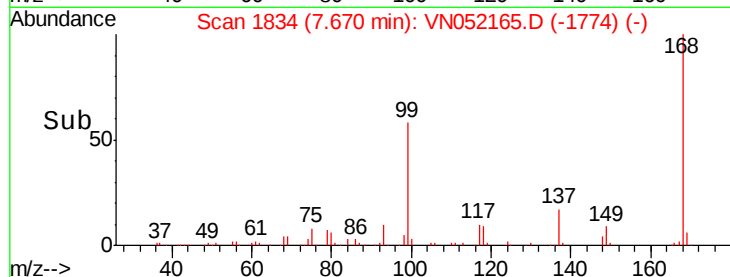
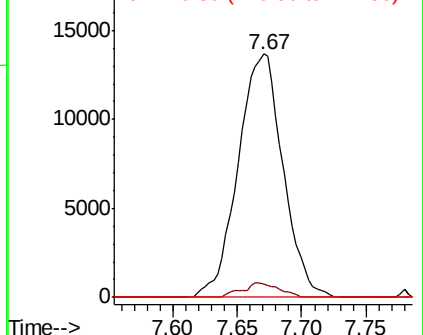
121 0.0 24.5 36.7#



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: 1.487 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VN052165.D

Acq: 5 Nov 2018 23:27

Tgt Ion: 41 Resp: 171

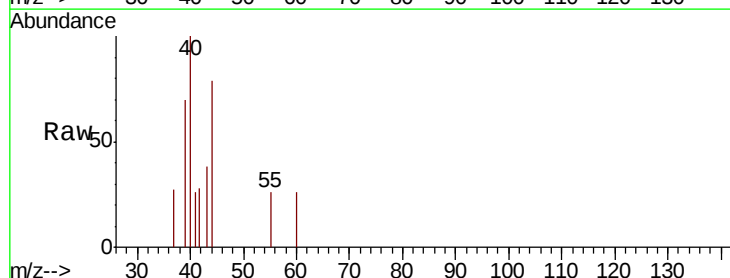
Ion Ratio Lower Upper

41 100

39 108.8 49.6 74.4#

67 0.0 65.4 98.2#

52 0.0 27.2 40.8#

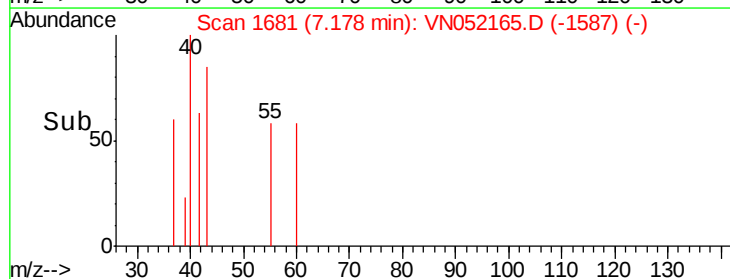
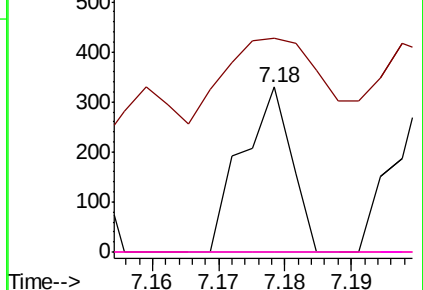


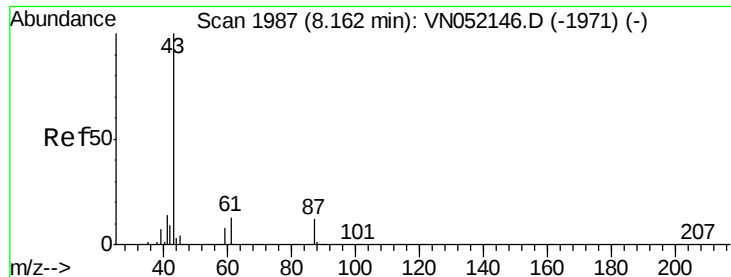
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 34.386 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052165.D

Acq: 5 Nov 2018 23:27

Instrument :

MSVOA_N

ClientSampleId :

HL-R37719-RT

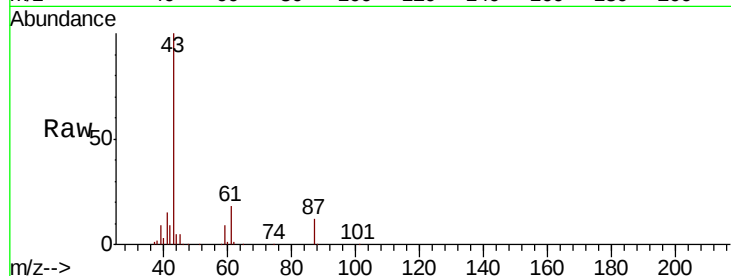
Tot Ion: 43 Resp: 202982

Ion Ratio Lower Upper

43 100

61 17.1 21.5 32.3#

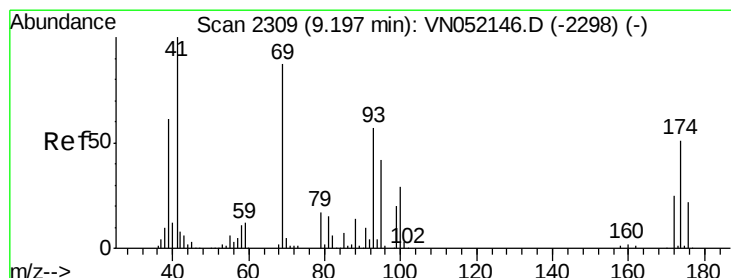
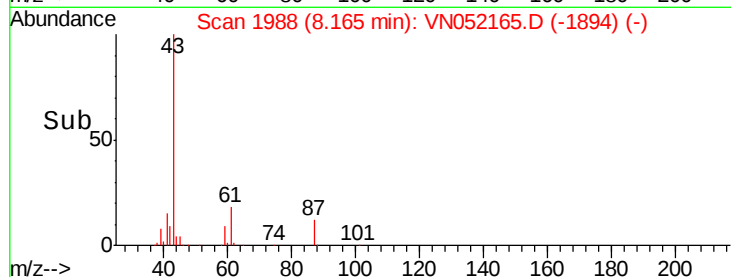
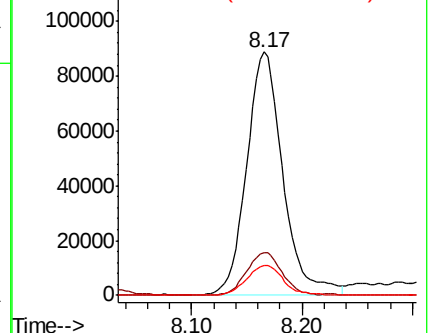
87 12.3 10.2 15.2



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: 1.683 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN052165.D

Acq: 5 Nov 2018 23:27

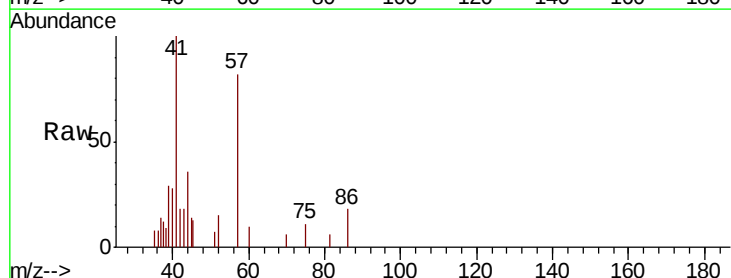
Tgt Ion: 41 Resp: 4781

Ion Ratio Lower Upper

41 100

69 0.0 69.7 104.5#

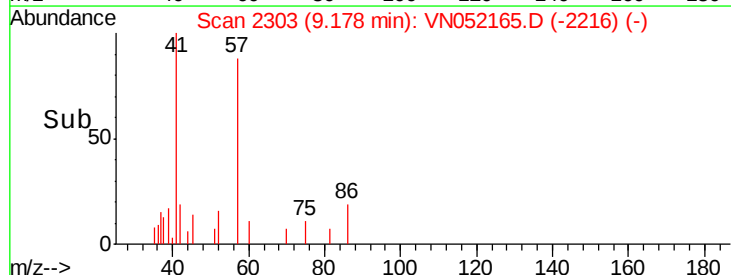
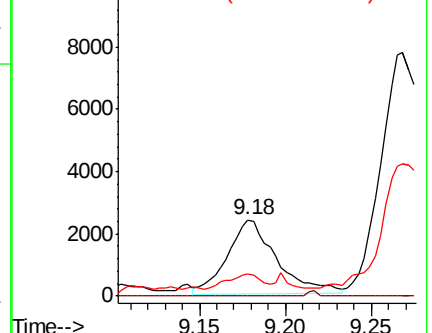
39 13.4 50.6 76.0#

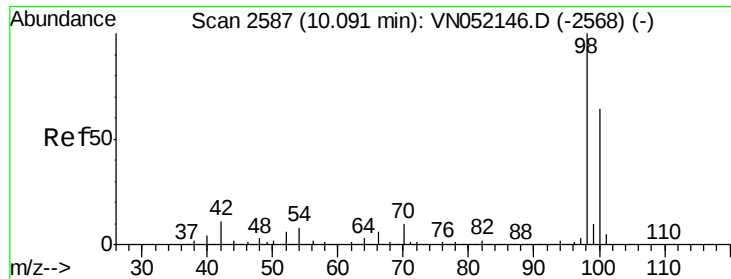


Abundance Ion 41.00 (40.70 to 41.70): VN052146.D (-2298) (-)

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

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





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052165.D

Acq: 5 Nov 2018 23:27

Instrument :

MSVOA_N

ClientSampled :

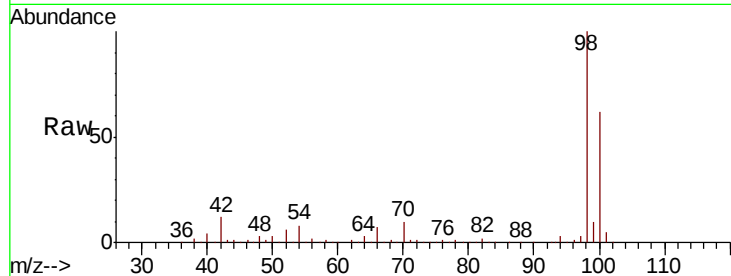
HL-R37719-RT

Tot Ion: 98 Resp: 872860

Ion Ratio Lower Upper

98 100

100 62.7 50.5 75.7



Abundance Ion 98.00 (97.70 to 98.70): VN052146.D (-2568) (-)

Ion 100.00 (99.70 to 100.70): VN052146.D (-2568) (-)

10.09

500000

400000

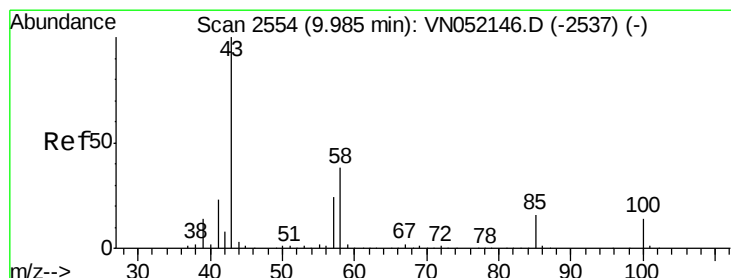
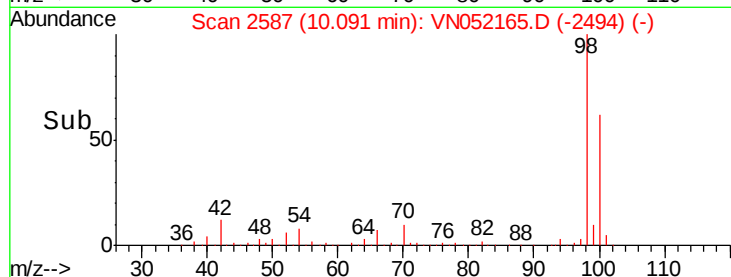
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.349 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN052165.D

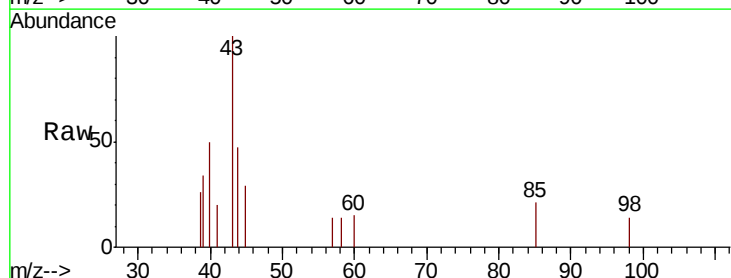
Acq: 5 Nov 2018 23:27

Tgt Ion: 43 Resp: 1088

Ion Ratio Lower Upper

43 100

58 21.8 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) (-)

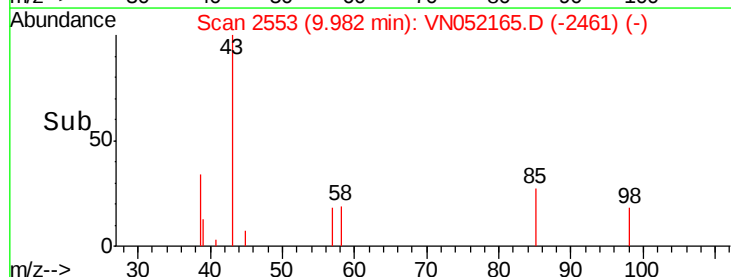
9.98

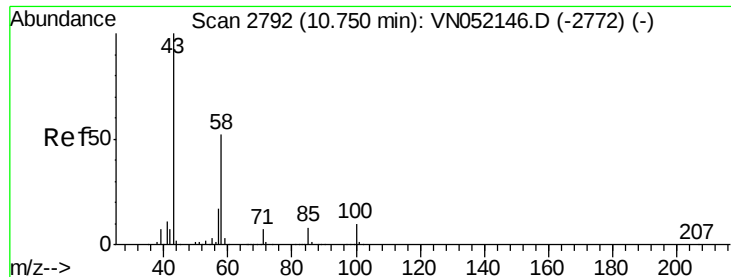
1000

500

0

Time-->





#59

2-Hexanone

Concen: 4.935 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052165.D

Acq: 5 Nov 2018 23:27

Instrument :

MSVOA_N

ClientSampleId :

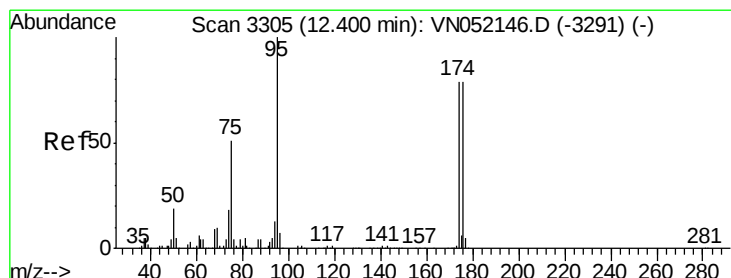
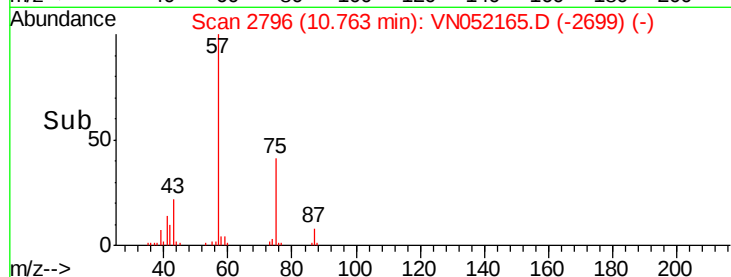
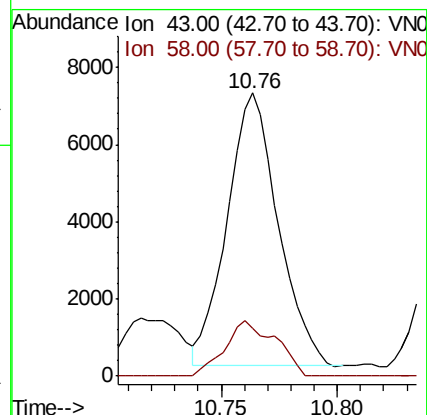
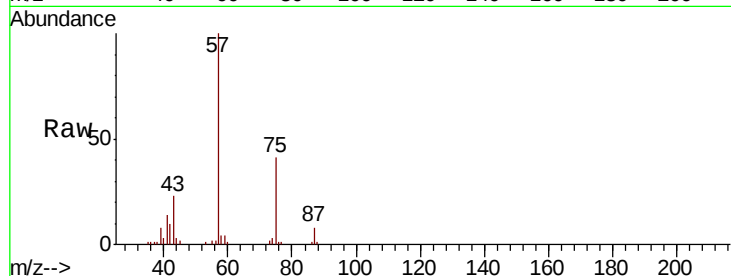
HL-R37719-RT

Tot Ion: 43 Resp: 10713

Ion Ratio Lower Upper

43 100

58 20.3 25.8 77.4#



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052165.D

Acq: 5 Nov 2018 23:27

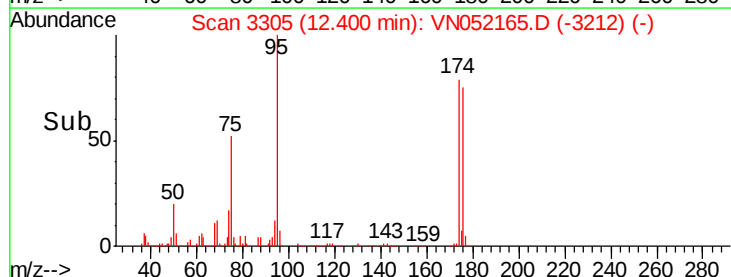
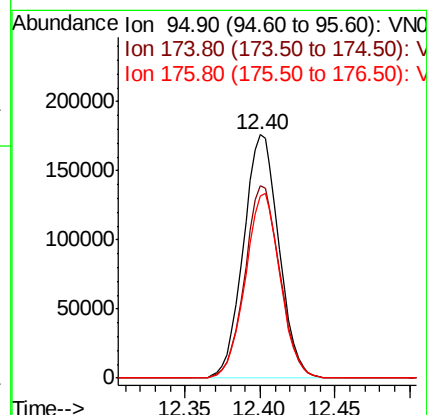
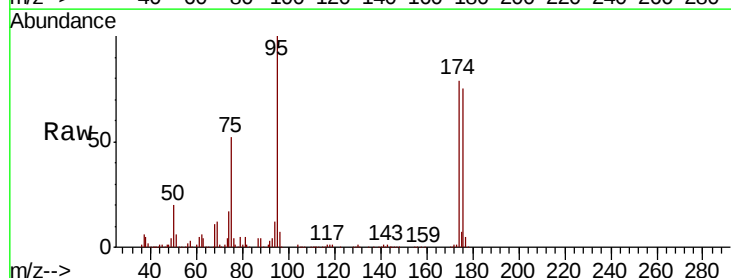
Tgt Ion: 95 Resp: 290561

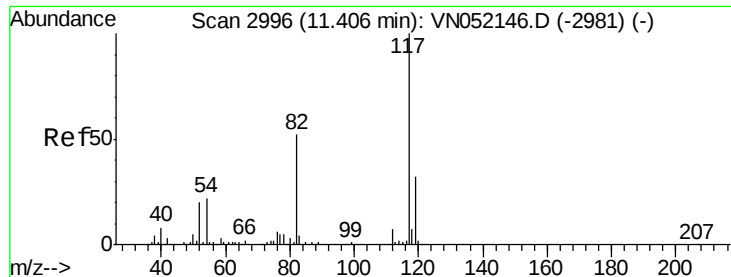
Ion Ratio Lower Upper

95 100

174 77.9 0.0 162.6

176 74.6 0.0 155.4

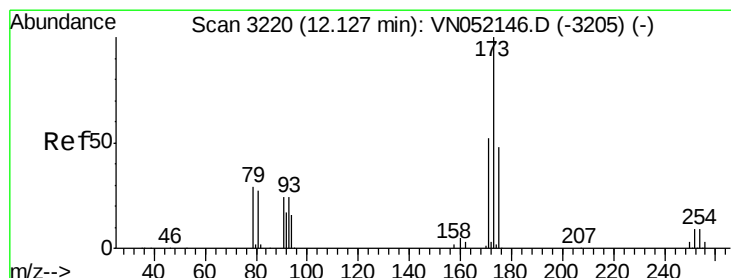
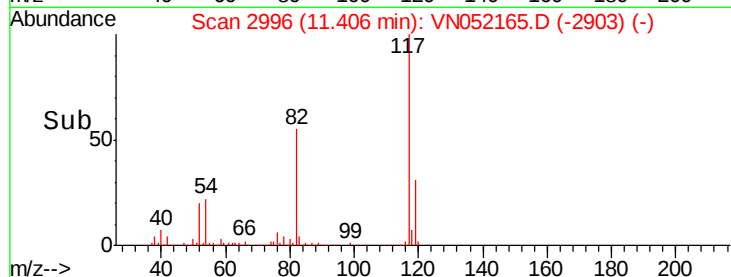
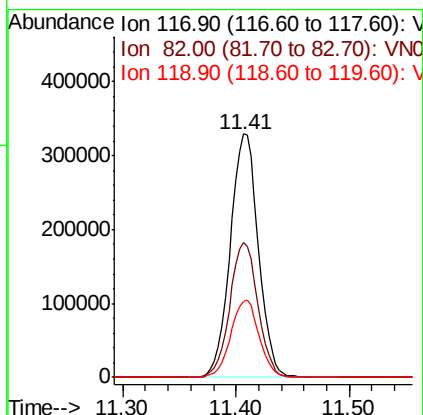
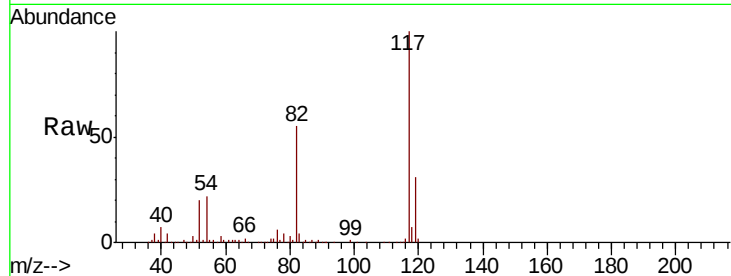




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052165.D
Acq: 5 Nov 2018 23:27

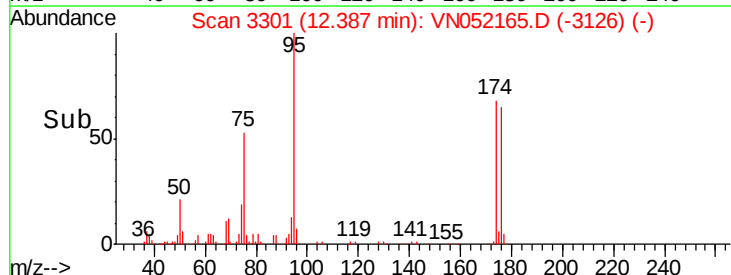
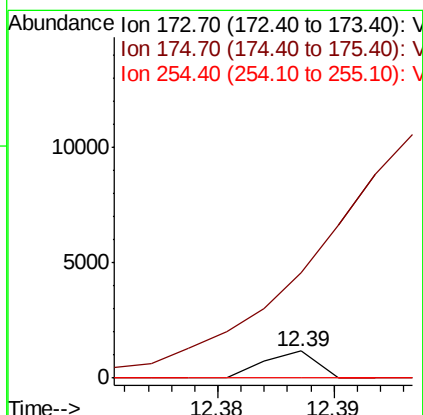
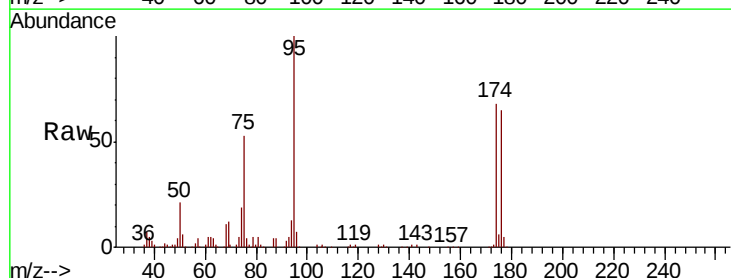
Instrument :
MSVOA_N
ClientSampleId :
HL-R37719-RT

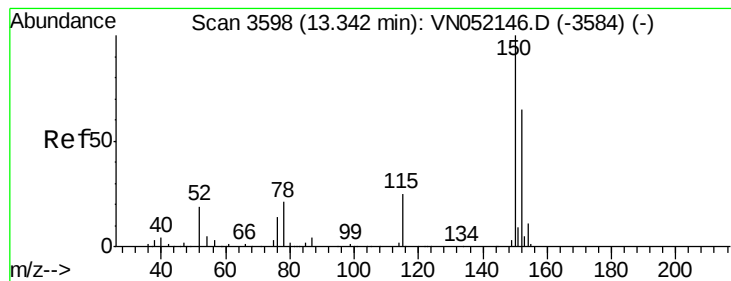
Tot Ion:117 Resp: 568730
Ion Ratio Lower Upper
117 100
82 55.2 41.9 62.9
119 31.1 25.7 38.5



#71
Bromoform
Concen: 2.929 ug/l
RT: 12.39 min Scan# 3301
Delta R.T. 0.26 min
Lab File: VN052165.D
Acq: 5 Nov 2018 23:27

Tgt Ion:173 Resp: 367
Ion Ratio Lower Upper
173 100
175 0.0 24.8 74.4#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052165.D

Acq: 5 Nov 2018 23:27

Instrument :

MSVOA_N

ClientSampleId :

HL-R37719-RT

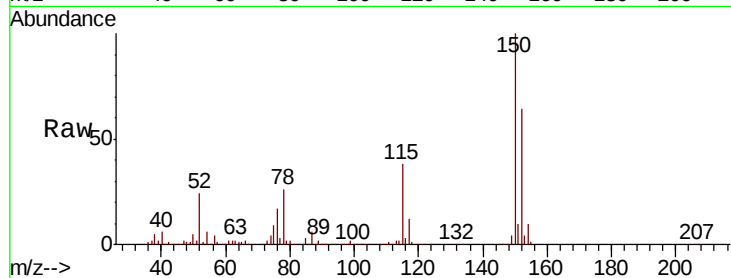
Tot Ion:152 Resp: 238512

Ion Ratio Lower Upper

152 100

115 59.9 28.5 85.5

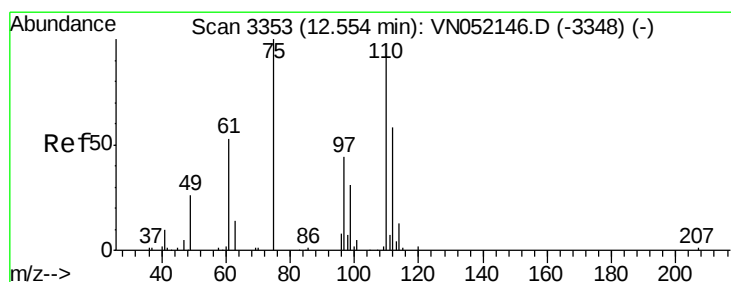
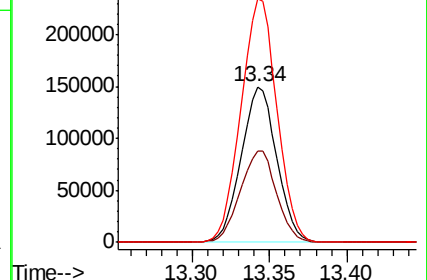
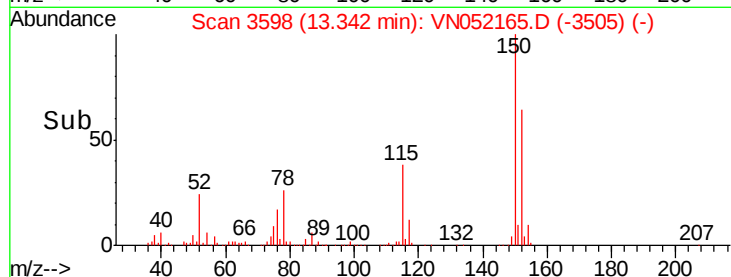
150 158.7 0.0 348.6



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: 39.996 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052165.D

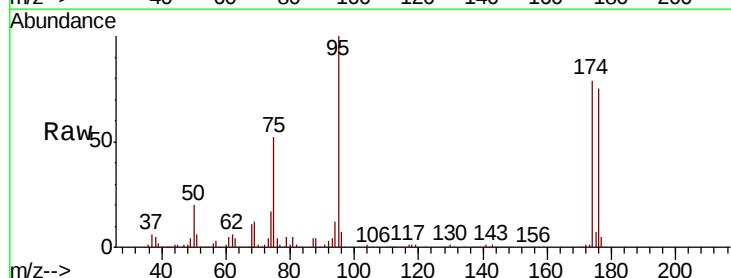
Acq: 5 Nov 2018 23:27

Tgt Ion: 75 Resp: 150128

Ion Ratio Lower Upper

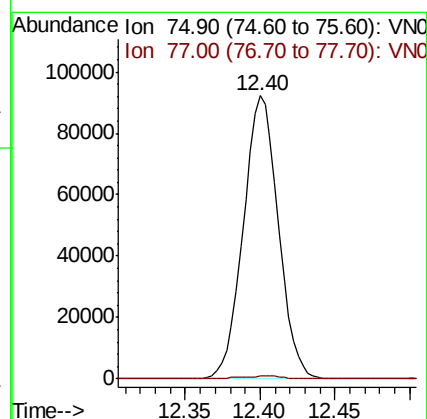
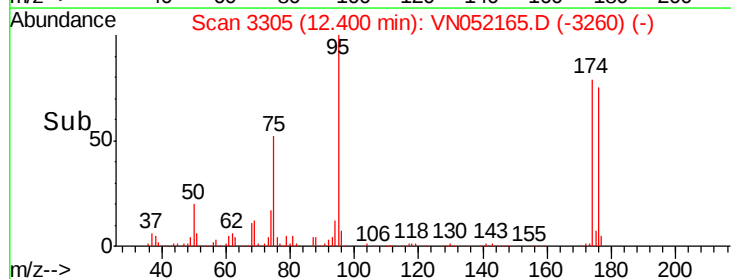
75 100

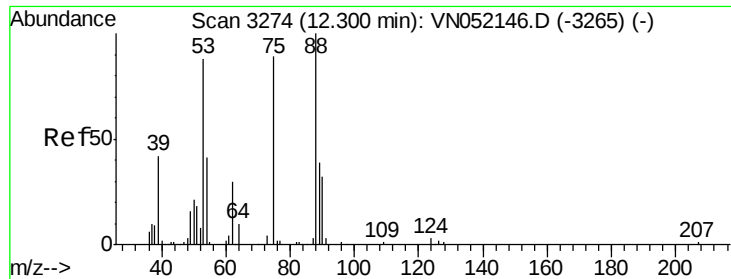
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 143.213 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052165.D

Acq: 5 Nov 2018 23:27

Instrument :

MSVOA_N

ClientSampleId :

HL-R37719-RT

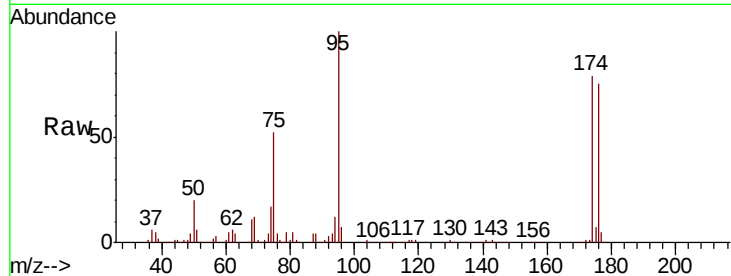
Tot Ion: 75 Resp: 150128

Ion Ratio Lower Upper

75 100

53 0.1 79.4 119.0#

89 0.0 35.8 53.8#

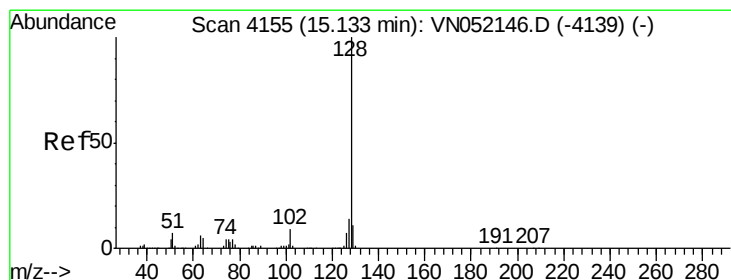
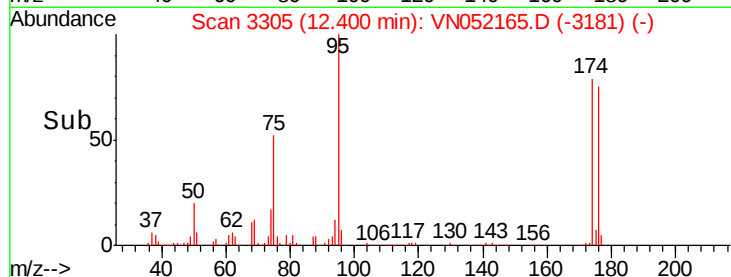
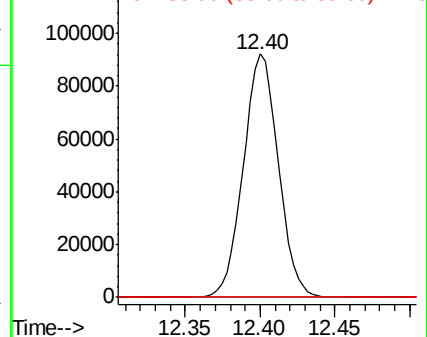


Abundance

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



#95

Naphthalene

Concen: 1.411 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN052165.D

Acq: 5 Nov 2018 23:27

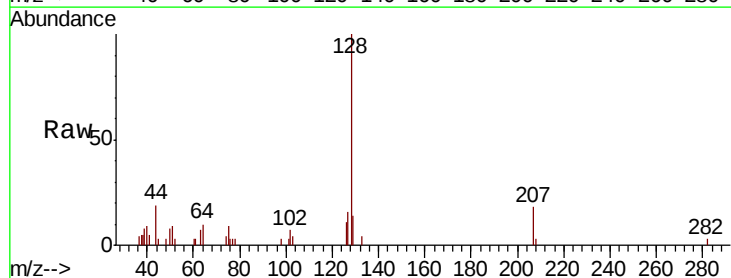
Tgt Ion: 128 Resp: 10304

Ion Ratio Lower Upper

128 100

127 13.9 10.8 16.2

129 13.6 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

