

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091218\
 Data File : VW005337.D
 Acq On : 12 Sep 2018 20:13
 Operator : SY/AP
 Sample : J4771-01
 Misc : 5.99G/5ML/MSVOA_W/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 NB-08-091218

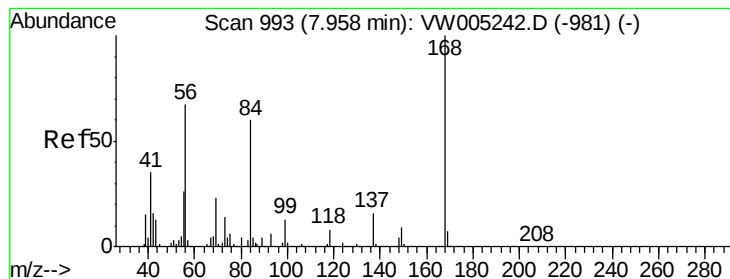
Quant Time: Sep 13 01:01:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091018S.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 03:48:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.96	168	373408	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	571188	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	518615	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	211983	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	143456	51.51	ug/l	0.00
Spiked Amount			Recovery	=	103.02%	
35) Dibromofluoromethane	7.89	113	45103	15.07	ug/l	0.00
Spiked Amount			Recovery	=	30.14%	
50) Toluene-d8	10.33	98	575403	38.06	ug/l	0.00
Spiked Amount			Recovery	=	76.12%	
62) 4-Bromofluorobenzene	12.63	95	184394	33.34	ug/l	0.00
Spiked Amount			Recovery	=	66.68%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.77	94	822	Below Cal	#	79
10) Methyl Iodide	4.29	142	110	3.352	ug/l #	45
11) Tert butyl alcohol	5.18	59	19462	85.210	ug/l #	88
16) Acetone	4.13	43	85396	165.189	ug/l	99
18) Methyl Acetate	4.69	43	5904	3.826	ug/l	93
20) Methylene Chloride	4.92	84	43239	8.523	ug/l	93
25) 2-Butanone	7.18	43	13934	17.088	ug/l	90
26) 2,2-Dichloropropane	7.15	77	5624	1.158	ug/l #	51
29) Tetrahydrofuran	7.55	42	1070	1.947	ug/l #	81
31) Cyclohexane	7.96	56	6213	1.043	ug/l #	1
37) Ethyl Acetate	7.18	43	13934	7.000	ug/l #	66
38) Carbon Tetrachloride	7.96	117	32167	6.562	ug/l #	16
49) 1,4-Dioxane	9.45	88	103	3.041	ug/l #	71
51) 4-Methyl-2-Pentanone	10.22	43	3167	1.523	ug/l	92
52) Toluene	10.39	92	26963	2.406	ug/l	98
59) 2-Hexanone	10.97	43	2690	1.794	ug/l	94
68) m/p-Xylenes	11.84	106	26752	3.355	ug/l	92
69) o-Xylene	12.17	106	13848	1.867	ug/l	95
74) N-amyl acetate	12.24	43	4822	1.692	ug/l #	53
76) 1,2,3-Trichloropropane	12.62	75	84822	52.023	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	84822	122.006	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.26	105	17613	1.374	ug/l	100
95) Naphthalene	15.38	128	29153	3.903	ug/l #	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. 0.00 min

Lab File: VW005337.D

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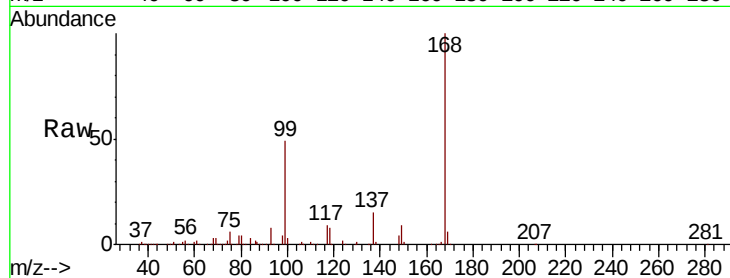
NB-08-091218

Tgt Ion:168 Resp: 373408

Ion Ratio Lower Upper

168 100

99 48.7 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.96

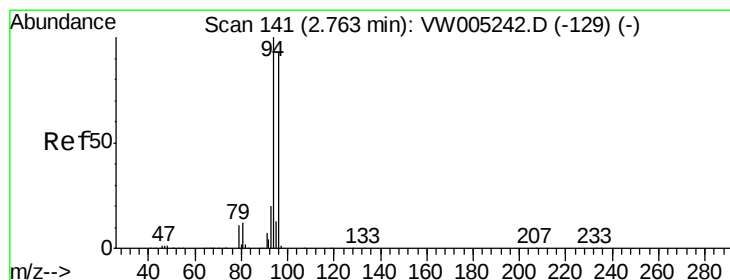
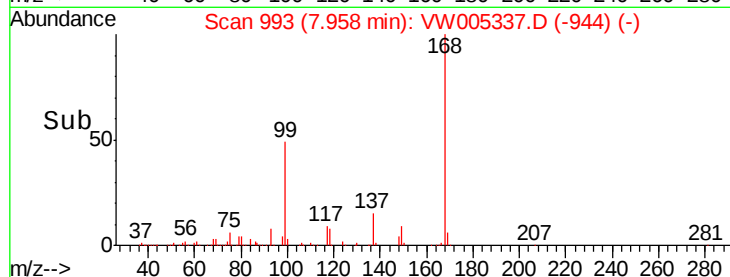
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 142

Delta R.T. 0.01 min

Lab File: VW005337.D

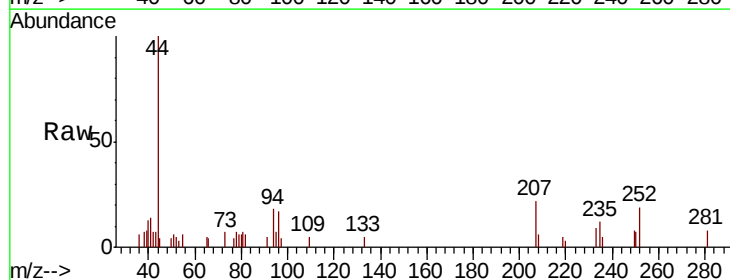
Acq: 12 Sep 2018 20:13

Tgt Ion: 94 Resp: 822

Ion Ratio Lower Upper

94 100

96 72.9 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW

400

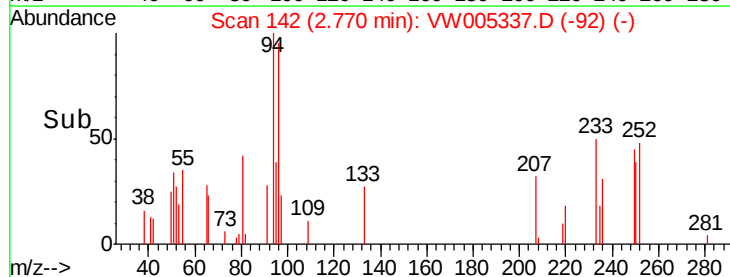
300

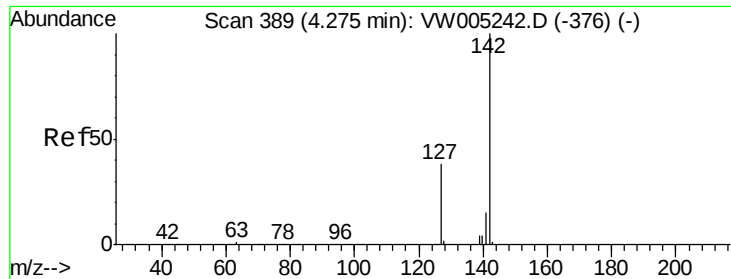
200

100

0

Time-->

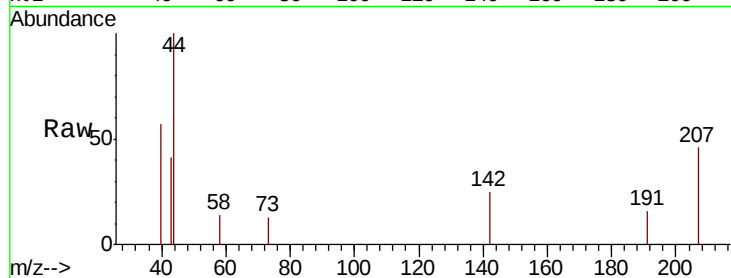




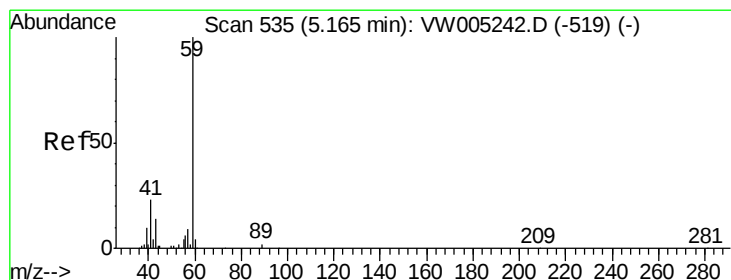
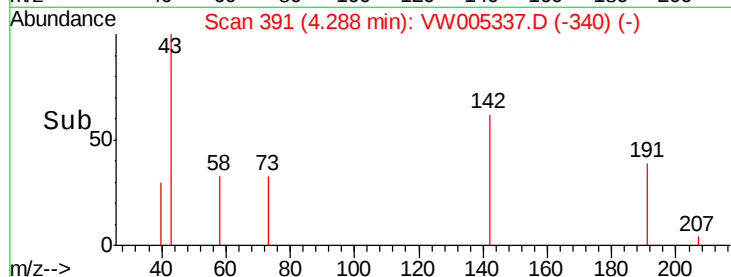
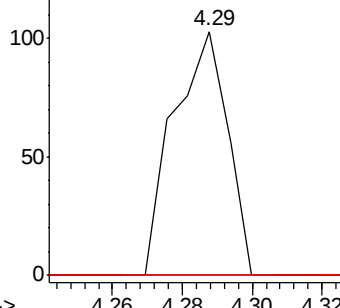
#10
Methyl Iodide
Concen: 3.352 ug/l
RT: 4.29 min Scan# 391
Delta R.T. 0.01 min
Lab File: VW005337.D
Acq: 12 Sep 2018 20:13

Instrument :
MSVOA_W
ClientSampleId :
NB-08-091218

Tgt Ion: 142 Resp: 110
Ion Ratio Lower Upper
142 100
127 0.0 30.3 45.5#
141 0.0 11.4 17.0#

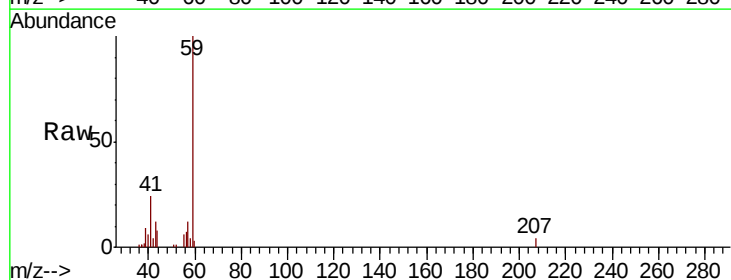


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

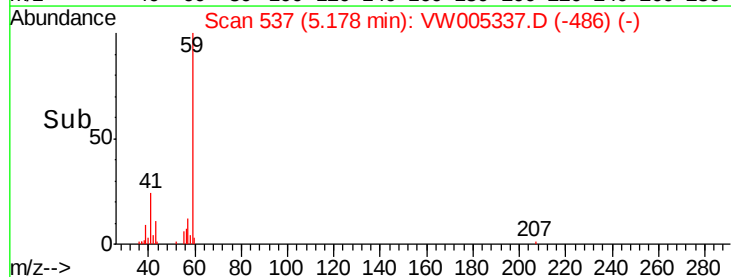
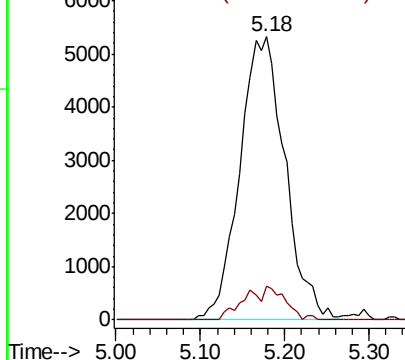


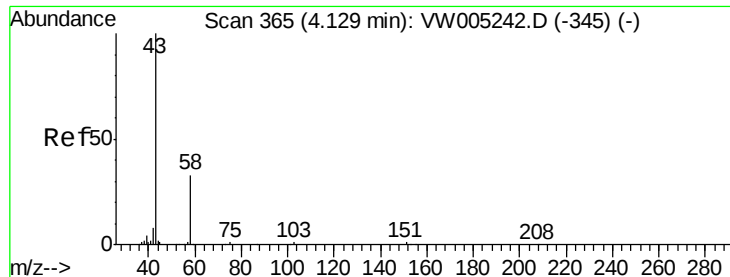
#11
Tert butyl alcohol
Concen: 85.210 ug/l
RT: 5.18 min Scan# 537
Delta R.T. 0.01 min
Lab File: VW005337.D
Acq: 12 Sep 2018 20:13

Tgt Ion: 59 Resp: 19462
Ion Ratio Lower Upper
59 100
57 5.7 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VW
Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 165.189 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.00 min

Lab File: VW005337.D

Acq: 12 Sep 2018 20:13

Instrument :

MSVOA_W

ClientSampleId :

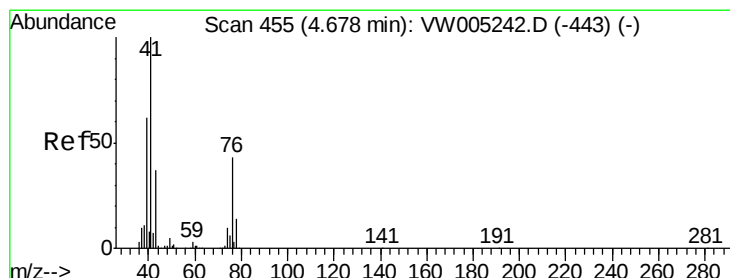
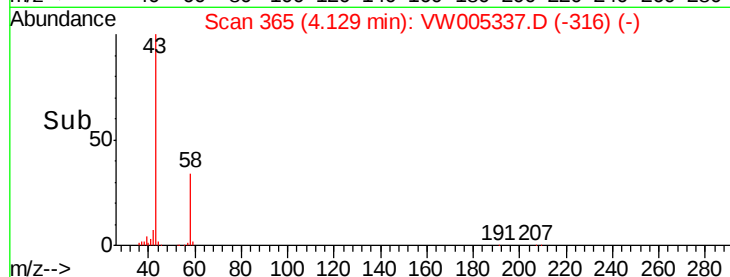
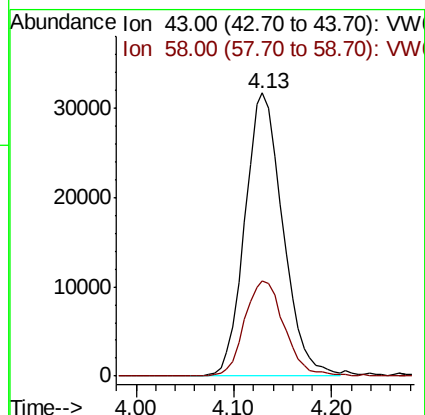
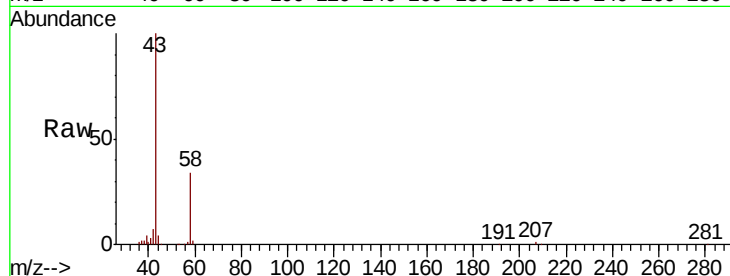
NB-08-091218

Tgt Ion: 43 Resp: 85396

Ion Ratio Lower Upper

43 100

58 33.8 26.7 40.1



#18

Methyl Acetate

Concen: 3.826 ug/l

RT: 4.69 min Scan# 457

Delta R.T. 0.01 min

Lab File: VW005337.D

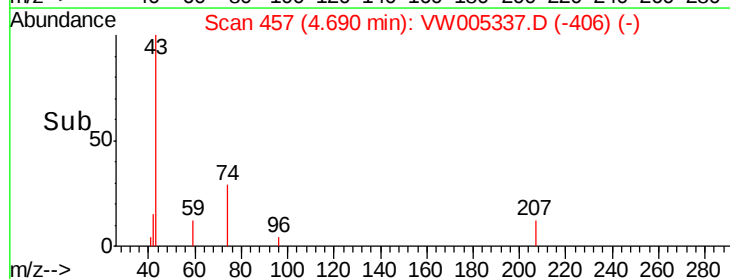
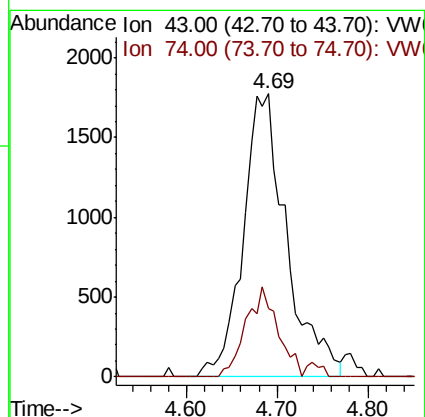
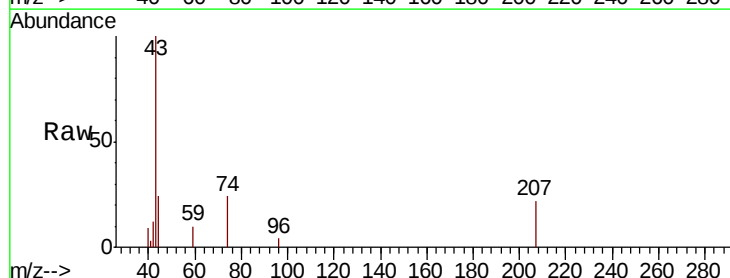
Acq: 12 Sep 2018 20:13

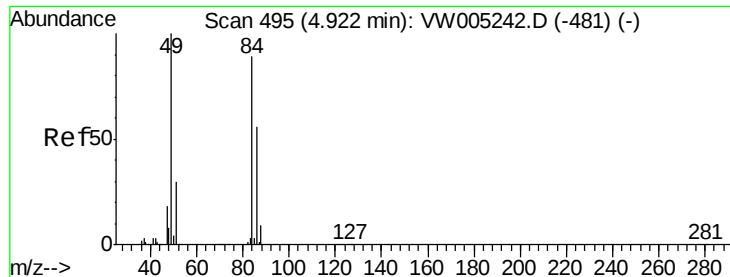
Tgt Ion: 43 Resp: 5904

Ion Ratio Lower Upper

43 100

74 23.4 21.4 32.2





#20

Methylene Chloride

Concen: 8.523 ug/l

RT: 4.92 min Scan# 495

Delta R.T. 0.00 min

Lab File: VW005337.D

Acq: 12 Sep 2018 20:13

Instrument :

MSVOA_W

ClientSampleId :

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Tgt Ion: 84 Resp: 43239

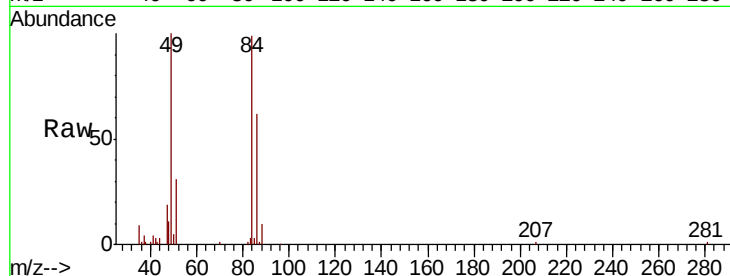
Ion Ratio Lower Upper

84 100

49 101.1 90.3 135.5

51 30.9 26.9 40.3

86 63.1 50.8 76.2



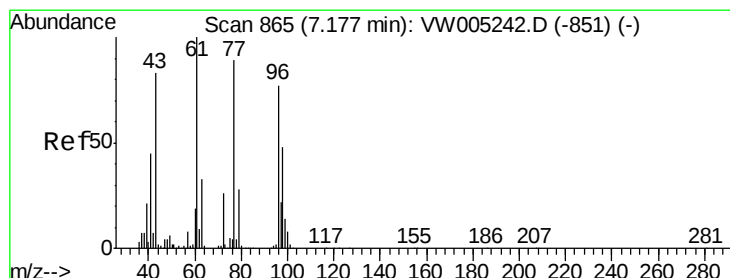
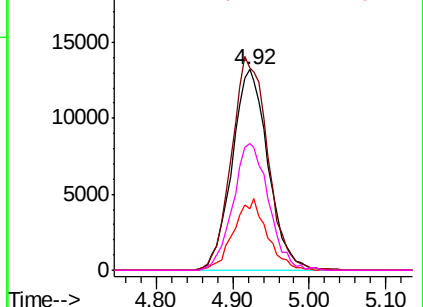
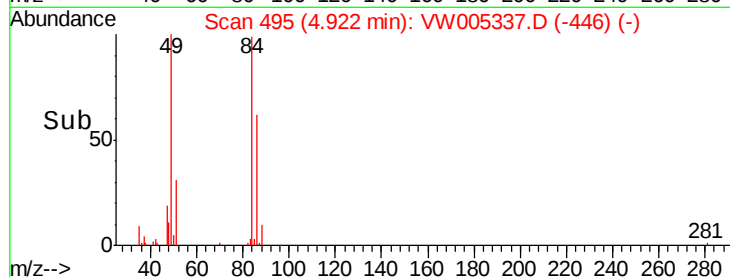
Abundance

Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#25

2-Butanone

Concen: 17.088 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW005337.D

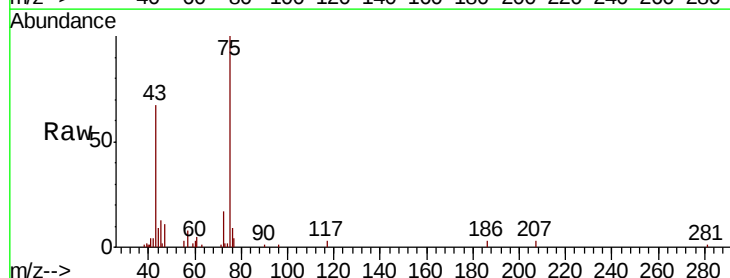
Acq: 12 Sep 2018 20:13

Tgt Ion: 43 Resp: 13934

Ion Ratio Lower Upper

43 100

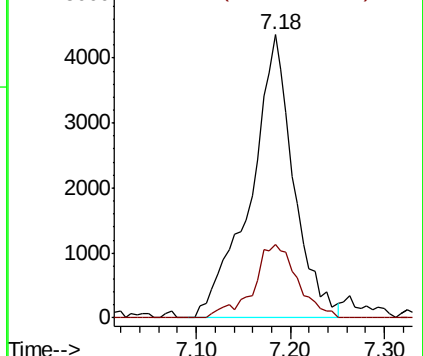
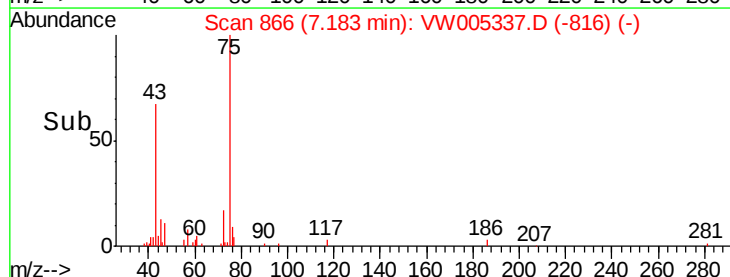
72 26.0 25.0 37.6

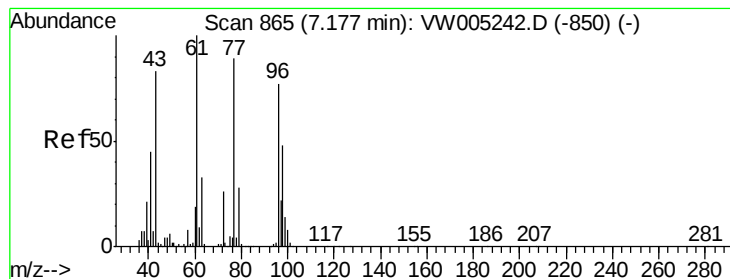


Abundance

Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW





#26

2,2-Dichloropropane

Concen: 1.158 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.03 min

Lab File: VW005337.D

Acq: 12 Sep 2018 20:13

Instrument :

MSVOA_W

ClientSampleId :

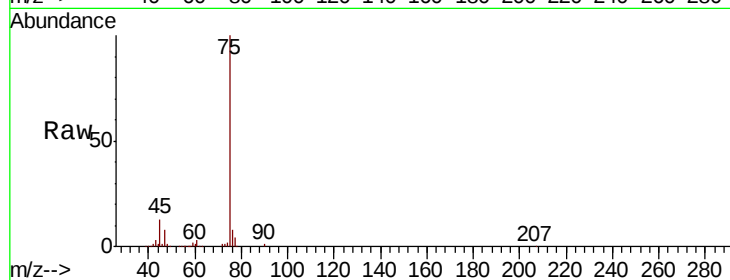
NB-08-091218

Tgt Ion: 77 Resp: 5624

Ion Ratio Lower Upper

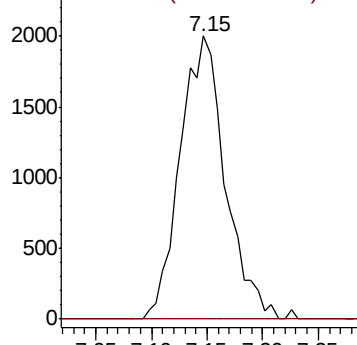
77 100

97 0.0 12.2 36.6#

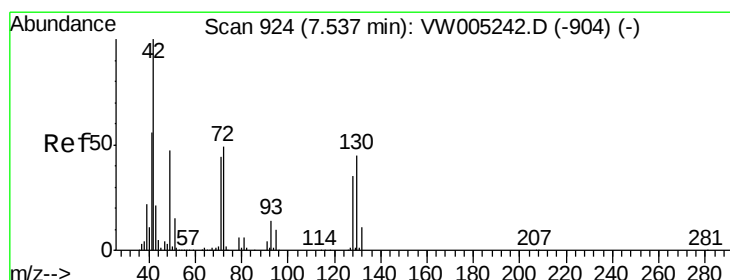
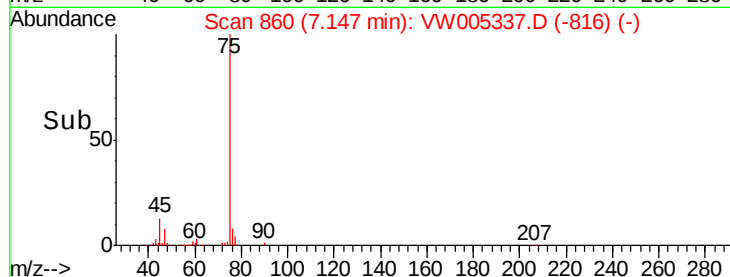


Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW



Time-->



#29

Tetrahydrofuran

Concen: 1.947 ug/l

RT: 7.55 min Scan# 926

Delta R.T. 0.01 min

Lab File: VW005337.D

Acq: 12 Sep 2018 20:13

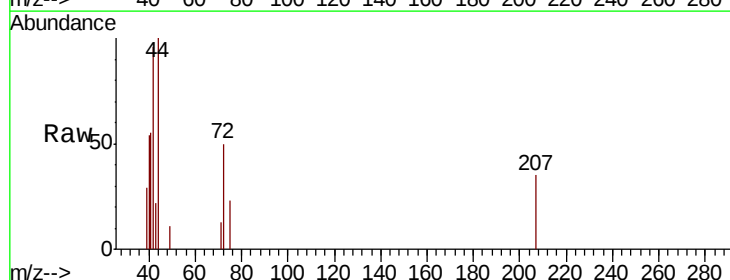
Tgt Ion: 42 Resp: 1070

Ion Ratio Lower Upper

42 100

72 41.9 37.5 56.3

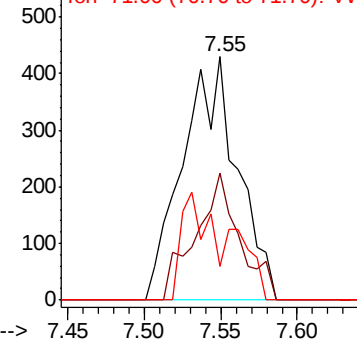
71 22.8 34.8 52.2#



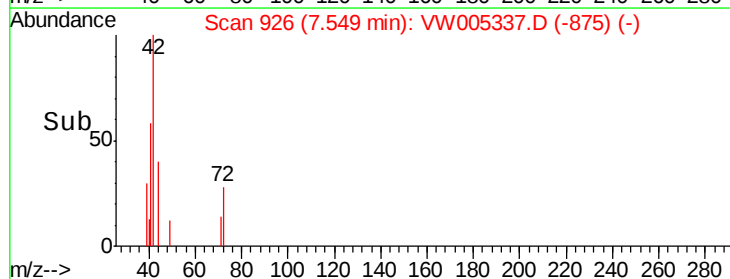
Abundance Ion 42.00 (41.70 to 42.70): VW

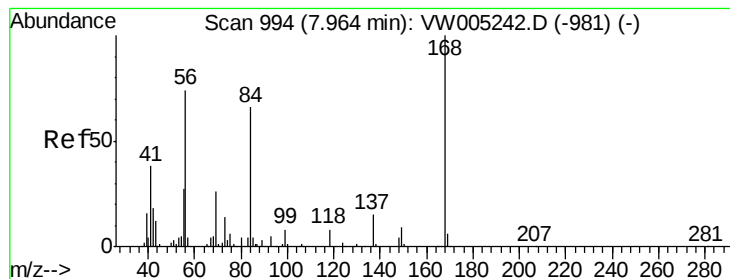
Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW



Time-->





#31

Cyclohexane

Concen: 1.043 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.01 min

Lab File: VW005337.D

Acq: 12 Sep 2018 20:13

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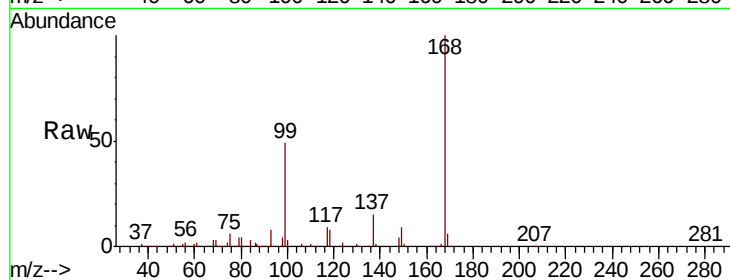
Tgt Ion: 56 Resp: 6213

Ion Ratio Lower Upper

56 100

69 199.8 27.8 41.8#

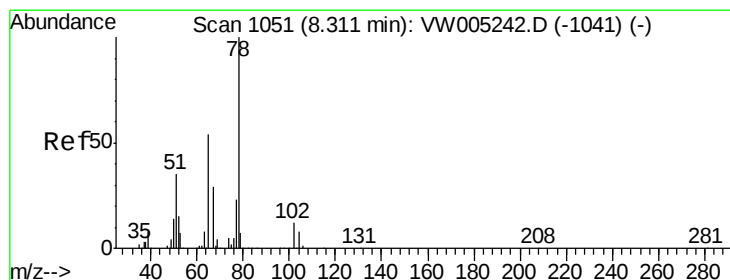
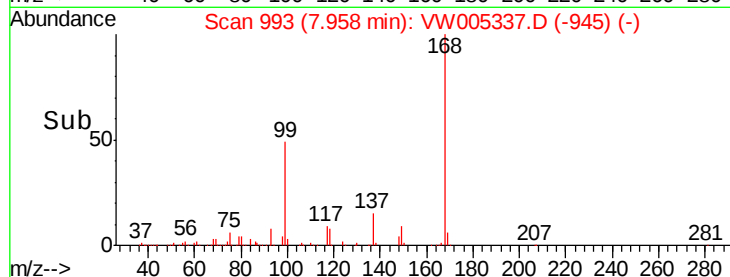
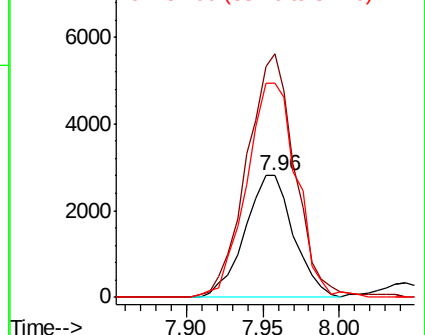
84 175.5 72.1 108.1#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW



#33

1,2-Dichloroethane-d4

Concen: 51.508 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VW005337.D

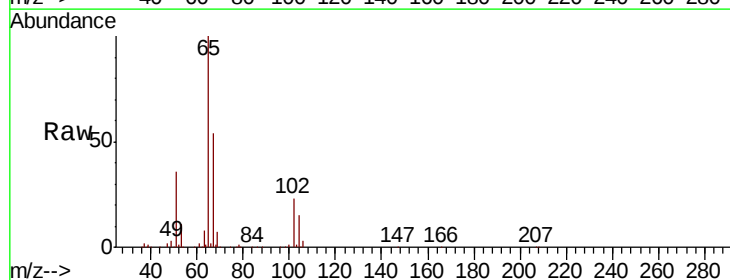
Acq: 12 Sep 2018 20:13

Tgt Ion: 65 Resp: 143456

Ion Ratio Lower Upper

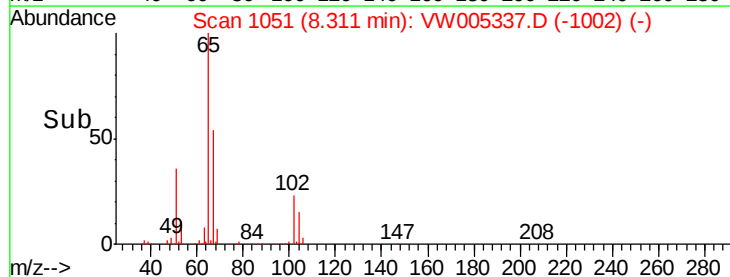
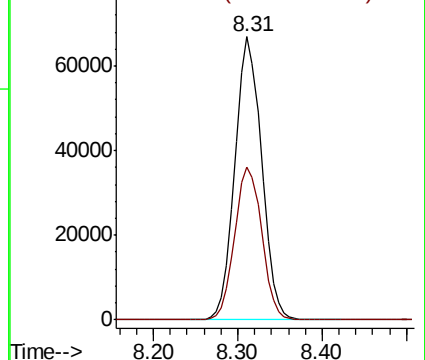
65 100

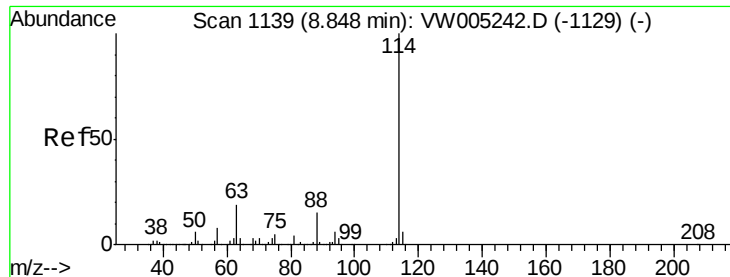
67 54.6 0.0 112.2



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

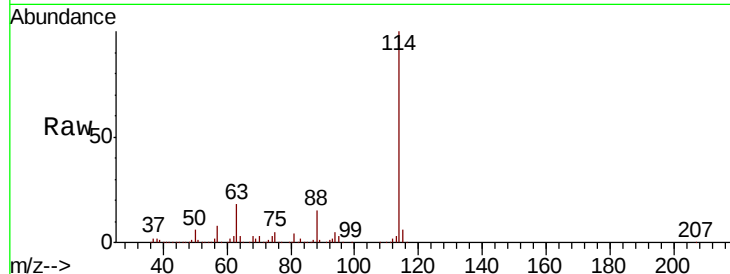




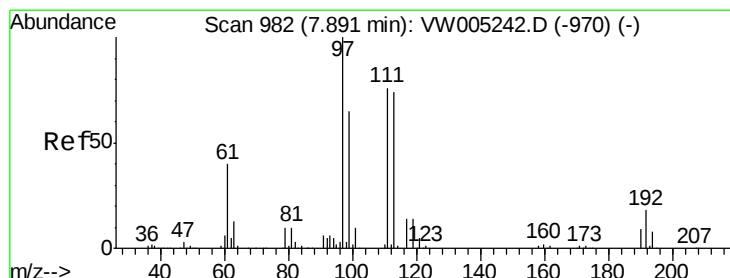
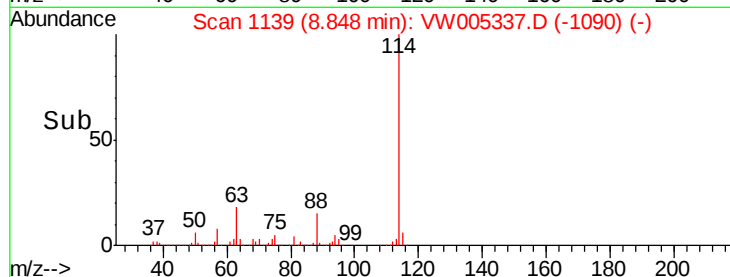
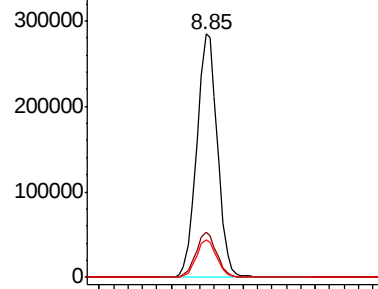
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. 0.00 min
 Lab File: VW005337.D
 Acq: 12 Sep 2018 20:13

Instrument :
 MSVOA_W
 ClientSampleId :
 NB-08-091218

Tgt Ion	Ratio	Lower	Upper
114	100		
63	18.3	0.0	37.0
88	15.3	0.0	30.4

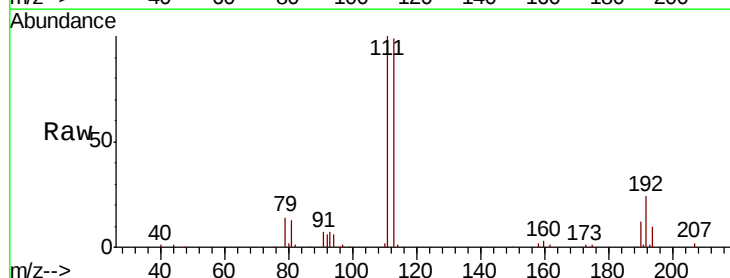


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

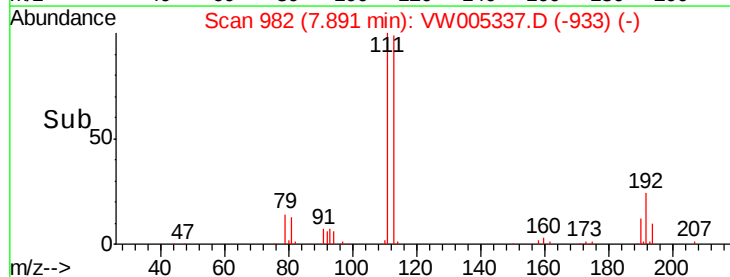
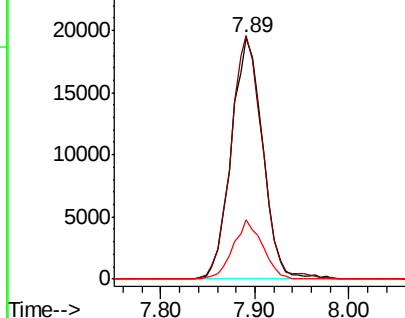


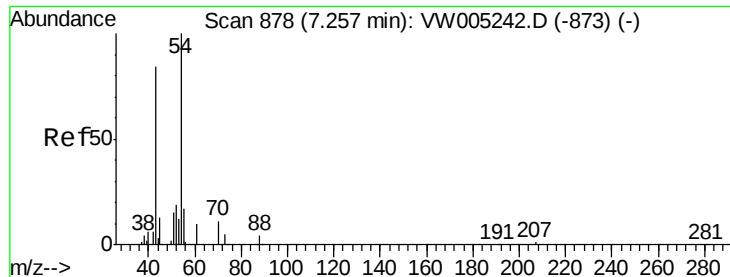
#35
 Dibromofluoromethane
 Concen: 15.074 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. 0.00 min
 Lab File: VW005337.D
 Acq: 12 Sep 2018 20:13

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.1	80.6	121.0
192	22.9	18.3	27.5



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

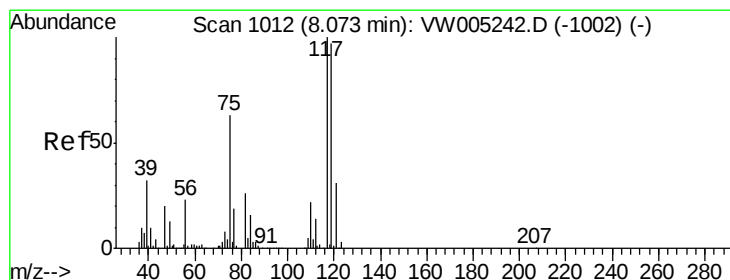
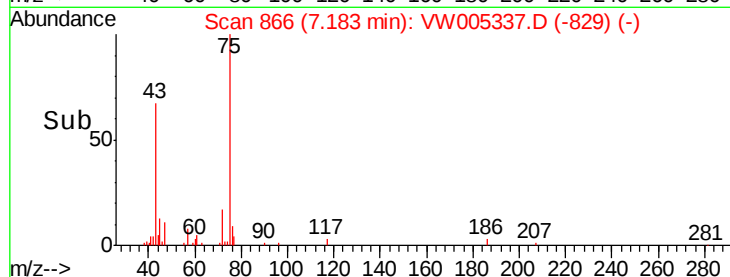
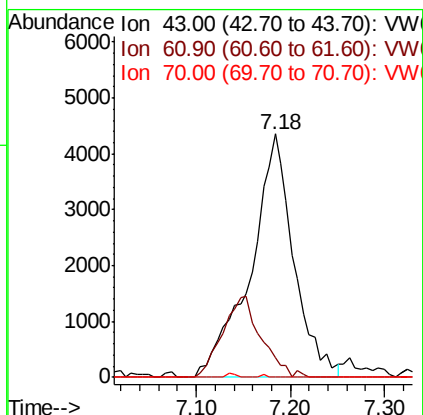
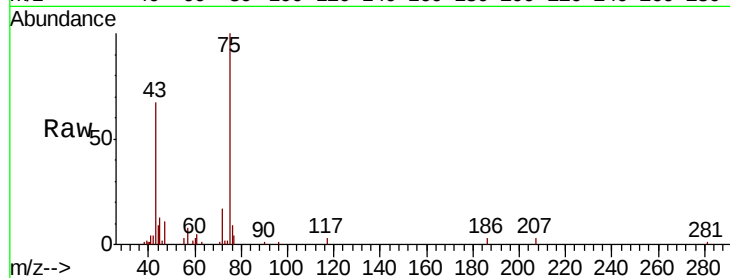




#37
Ethyl Acetate
Concen: 7.000 ug/l
RT: 7.18 min Scan# 866
Delta R.T. -0.07 min
Lab File: VW005337.D
Acq: 12 Sep 2018 20:13

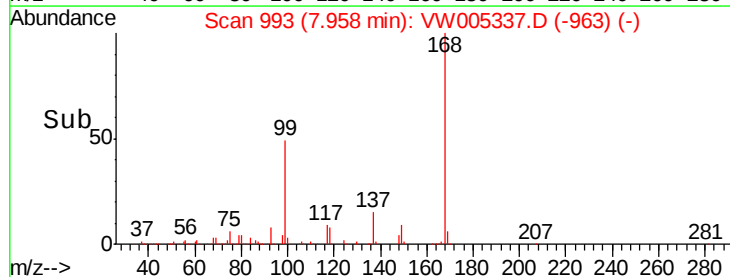
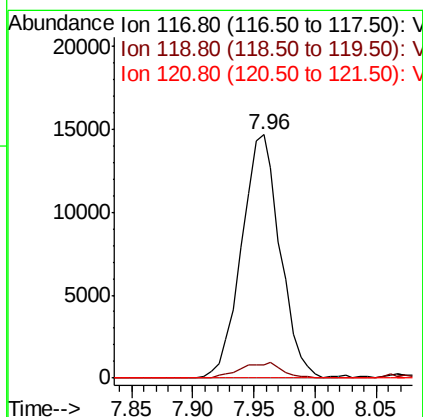
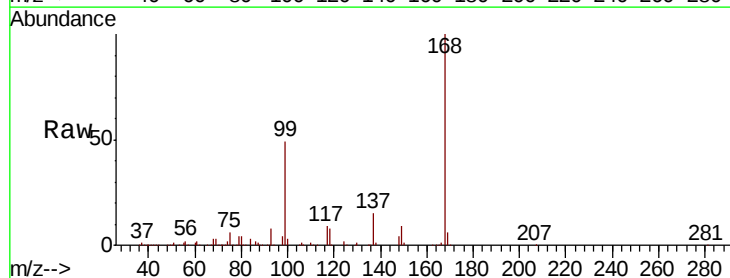
Instrument :
MSVOA_W
ClientSampleId :
NB-08-091218

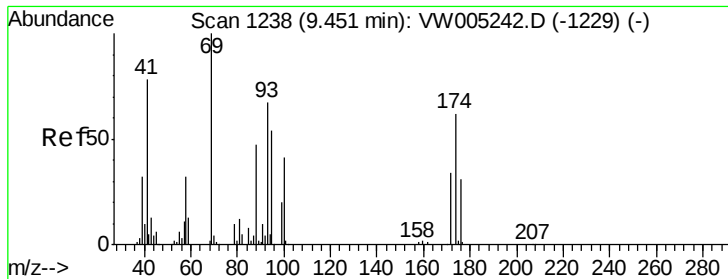
Tgt Ion: 43 Resp: 13934
Ion Ratio Lower Upper
43 100
61 0.0 12.3 18.5#
70 0.1 9.5 14.3#



#38
Carbon Tetrachloride
Concen: 6.562 ug/l
RT: 7.96 min Scan# 993
Delta R.T. -0.12 min
Lab File: VW005337.D
Acq: 12 Sep 2018 20:13

Tgt Ion: 117 Resp: 32167
Ion Ratio Lower Upper
117 100
119 5.6 77.5 116.3#
121 0.0 24.7 37.1#

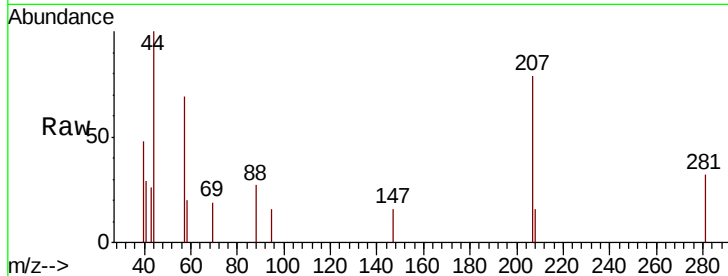




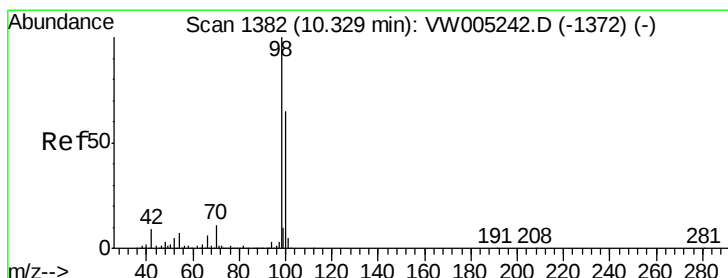
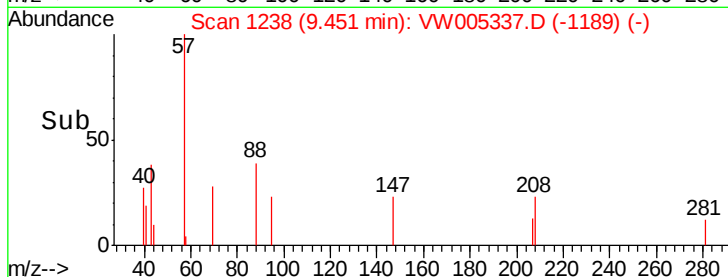
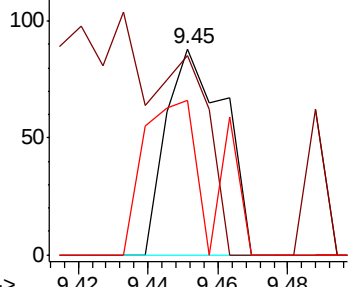
#49
1,4-Dioxane
Concen: 3.041 ug/l
RT: 9.45 min Scan# 1238
Delta R.T. 0.00 min
Lab File: VW005337.D
Acq: 12 Sep 2018 20:13

Instrument :
MSVOA_W
ClientSampled :
NB-08-091218

Tgt Ion: 88 Resp: 103
Ion Ratio Lower Upper
88 100
43 0.0 22.7 34.1#
58 86.4 56.6 85.0#

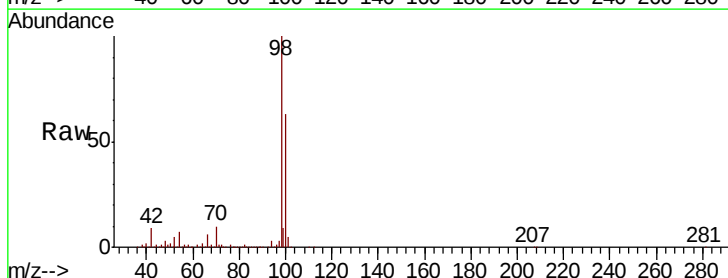


Abundance Ion 88.00 (87.70 to 88.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW

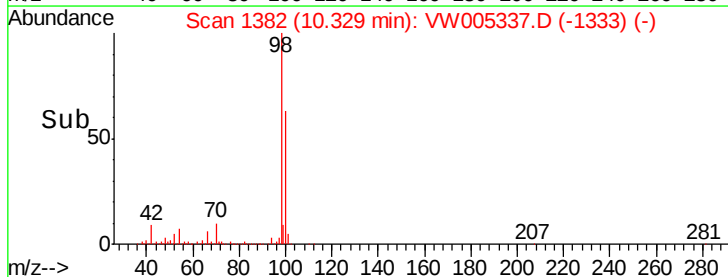
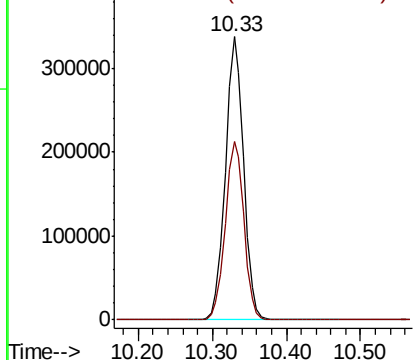


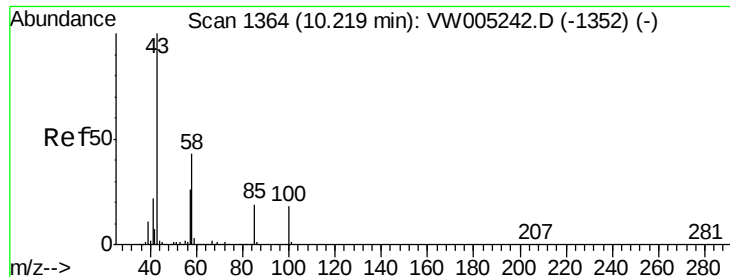
#50
Toluene-d8
Concen: 38.057 ug/l
RT: 10.33 min Scan# 1382
Delta R.T. 0.00 min
Lab File: VW005337.D
Acq: 12 Sep 2018 20:13

Tgt Ion: 98 Resp: 575403
Ion Ratio Lower Upper
98 100
100 64.7 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): VW

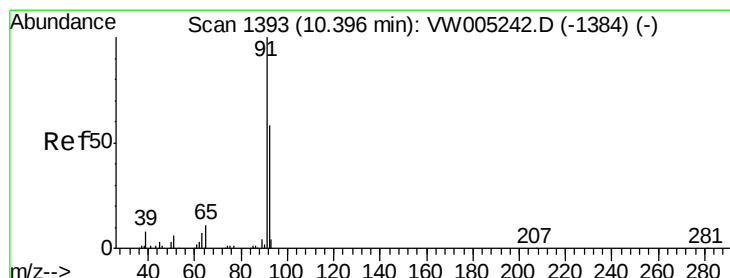
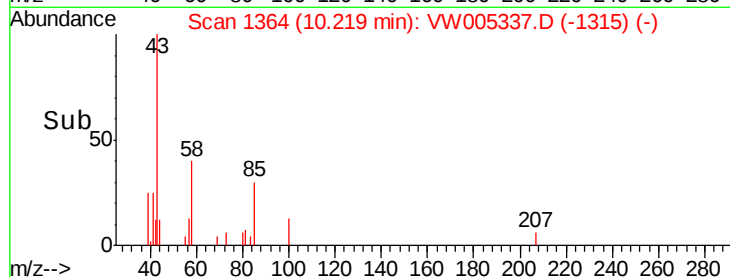
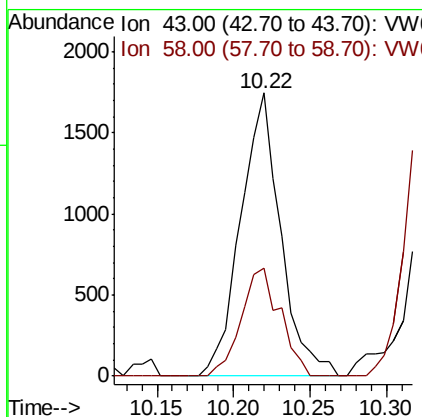
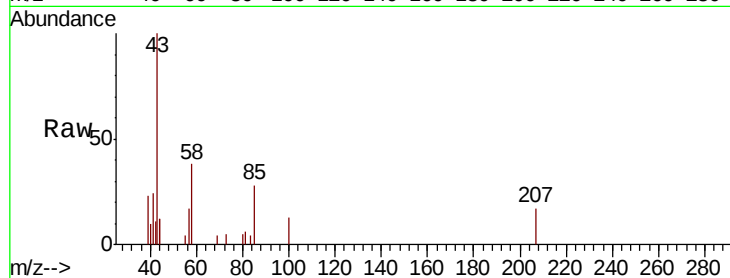




#51
 4-Methyl-2-Pentanone
 Concen: 1.523 ug/l
 RT: 10.22 min Scan# 1364
 Delta R.T. 0.00 min
 Lab File: VW005337.D
 Acq: 12 Sep 2018 20:13

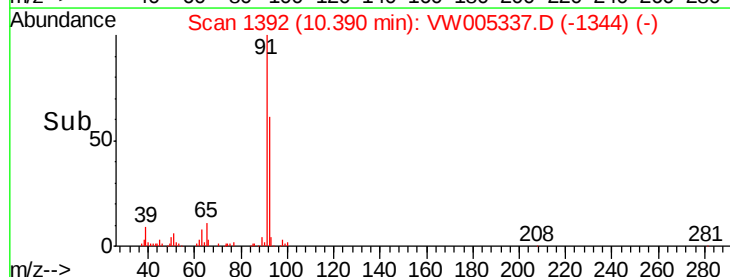
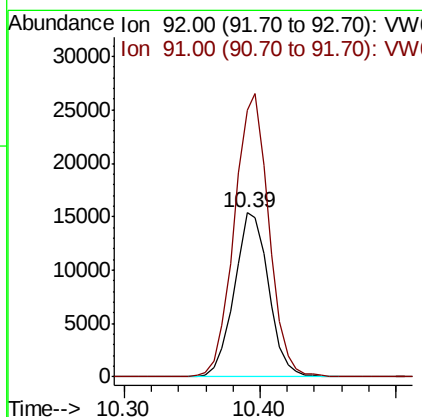
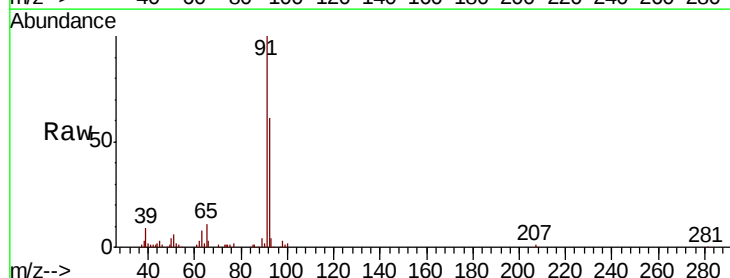
Instrument :
 MSVOA_W
 ClientSampleId :
 NB-08-091218

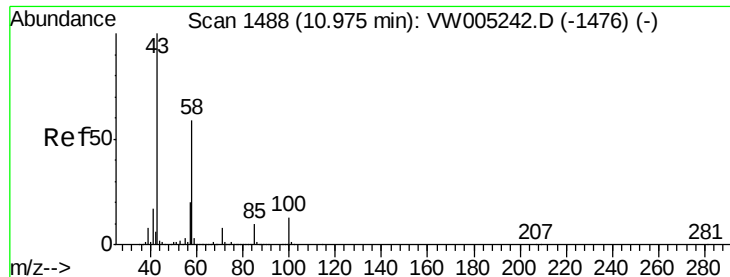
Tgt Ion: 43 Resp: 3167
 Ion Ratio Lower Upper
 43 100
 58 37.1 33.8 50.6



#52
 Toluene
 Concen: 2.406 ug/l
 RT: 10.39 min Scan# 1392
 Delta R.T. -0.01 min
 Lab File: VW005337.D
 Acq: 12 Sep 2018 20:13

Tgt Ion: 92 Resp: 26963
 Ion Ratio Lower Upper
 92 100
 91 173.9 137.4 206.0

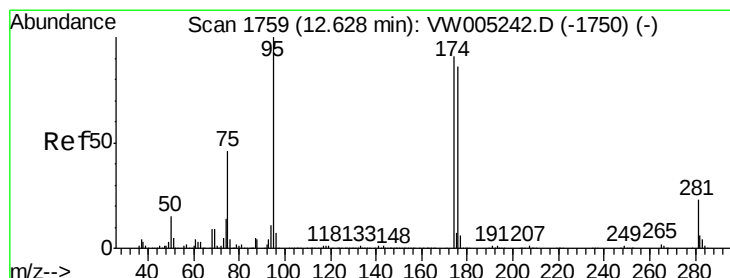
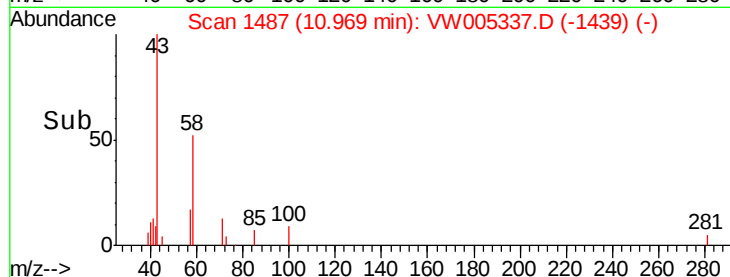
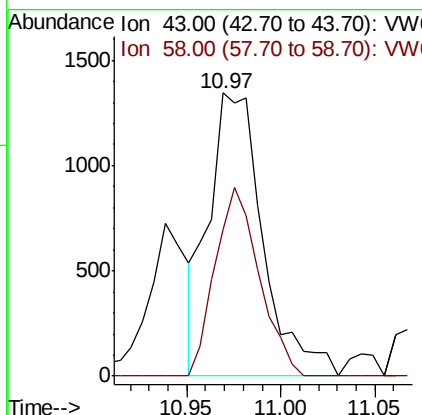
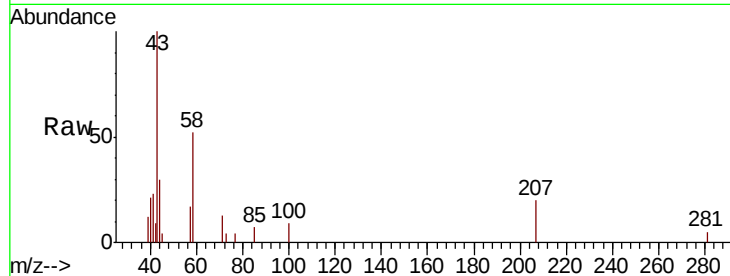




#59
2-Hexanone
Concen: 1.794 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. -0.01 min
Lab File: VW005337.D
Acq: 12 Sep 2018 20:13

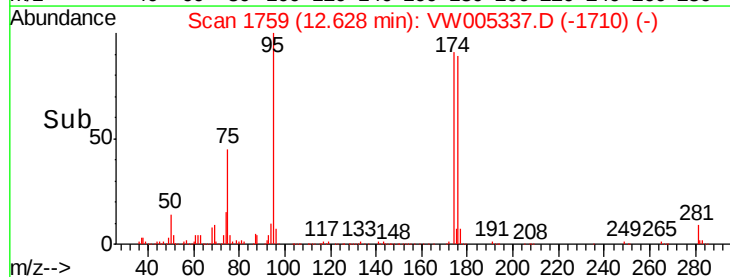
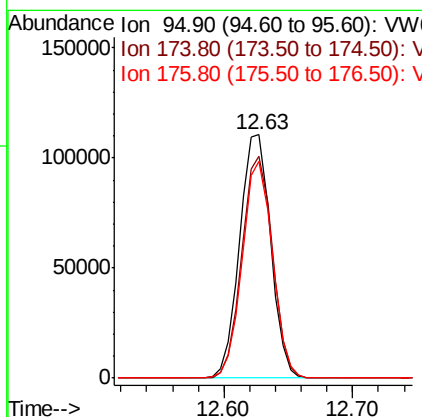
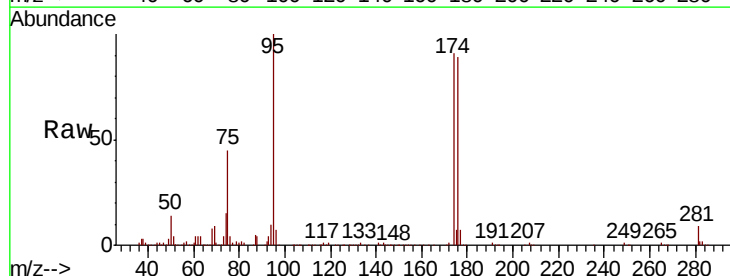
Instrument :
MSVOA_W
ClientSampleId :
NB-08-091218

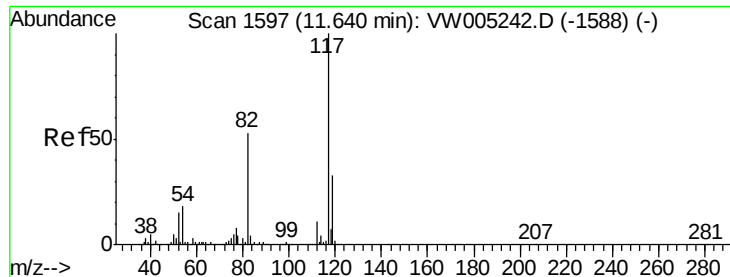
Tgt Ion: 43 Resp: 2690
Ion Ratio Lower Upper
43 100
58 54.2 29.3 87.9



#62
4-Bromofluorobenzene
Concen: 33.343 ug/l
RT: 12.63 min Scan# 1759
Delta R.T. 0.00 min
Lab File: VW005337.D
Acq: 12 Sep 2018 20:13

Tgt Ion: 95 Resp: 184394
Ion Ratio Lower Upper
95 100
174 89.8 0.0 174.6
176 86.4 0.0 167.6

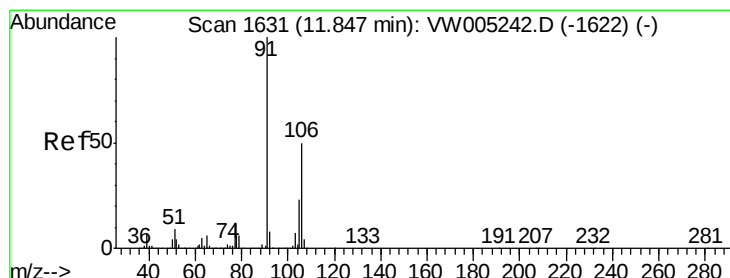
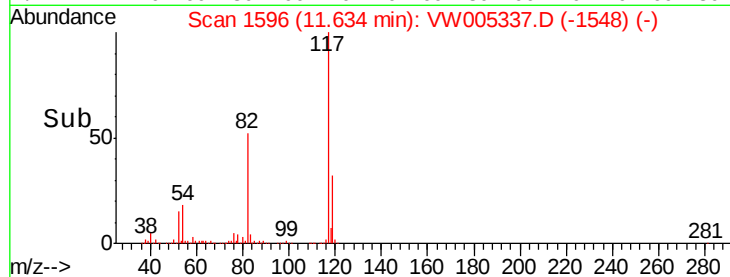
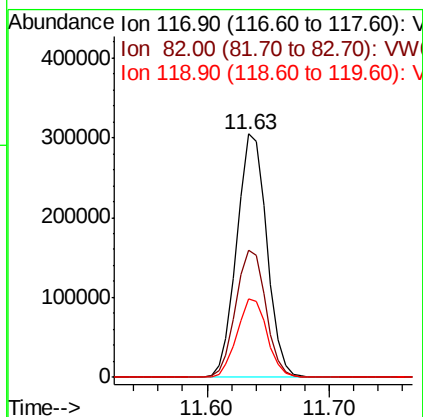
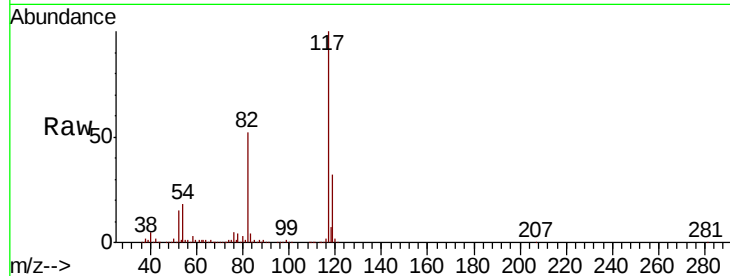




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.01 min
Lab File: VW005337.D
Acq: 12 Sep 2018 20:13

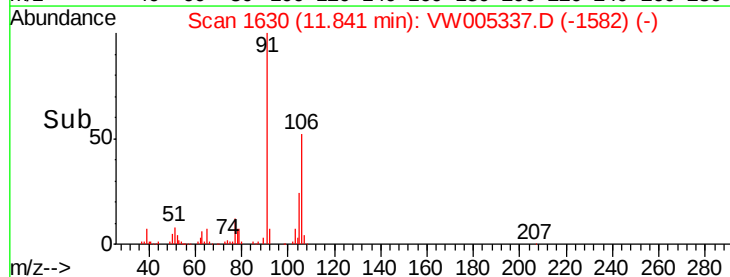
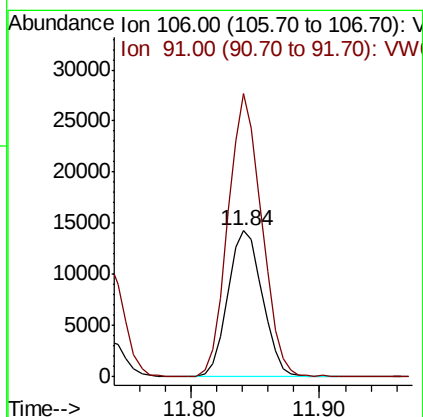
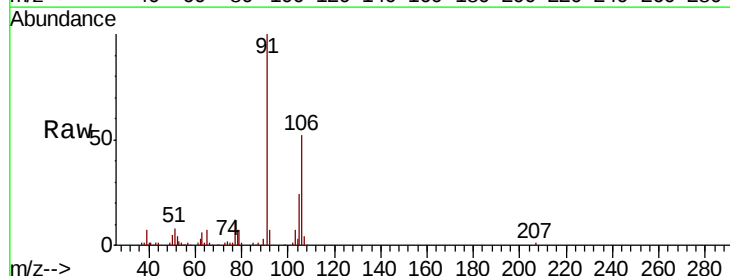
Instrument :
MSVOA_W
ClientSampleId :
NB-08-091218

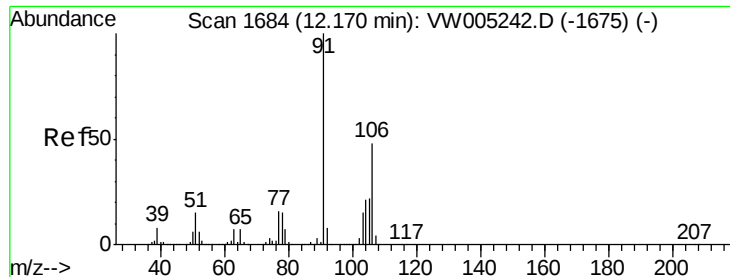
Tgt Ion:117 Resp: 518615
Ion Ratio Lower Upper
117 100
82 52.4 42.6 63.8
119 32.2 26.2 39.4



#68
m/p-Xylenes
Concen: 3.355 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.01 min
Lab File: VW005337.D
Acq: 12 Sep 2018 20:13

Tgt Ion:106 Resp: 26752
Ion Ratio Lower Upper
106 100
91 188.6 160.2 240.2

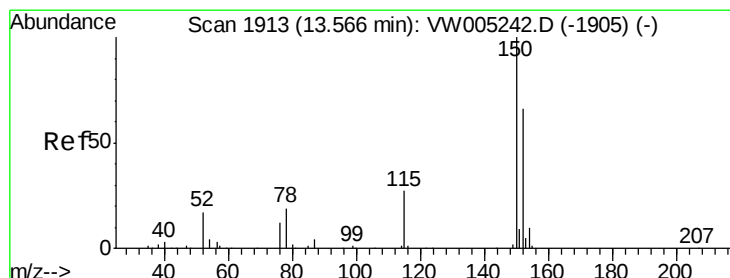
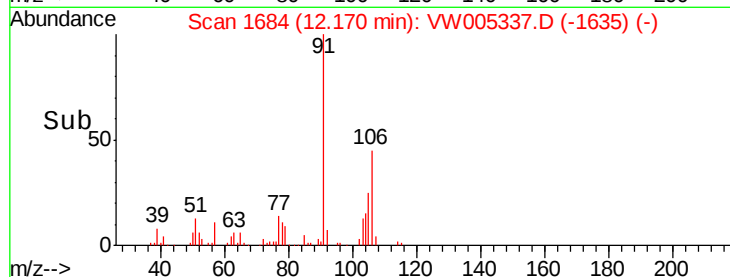
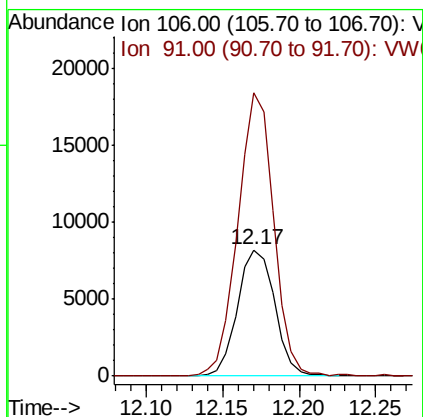
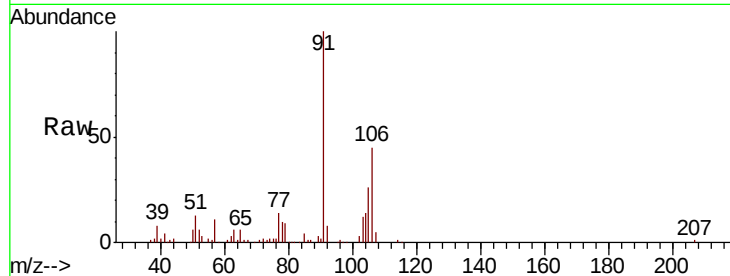




#69
o-Xylene
Concen: 1.867 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VW005337.D
Acq: 12 Sep 2018 20:13

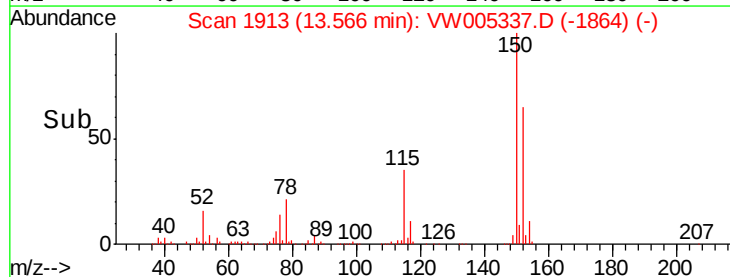
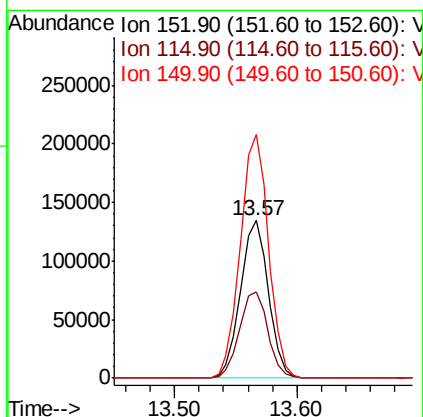
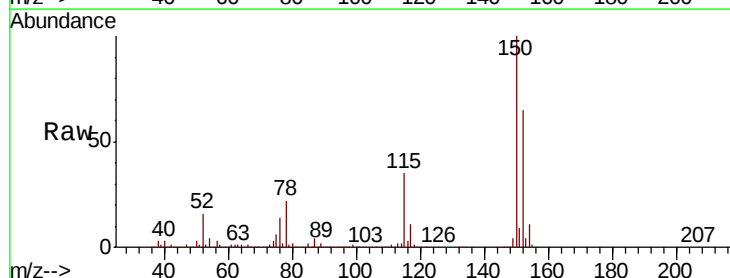
Instrument :
MSVOA_W
ClientSampleId :
NB-08-091218

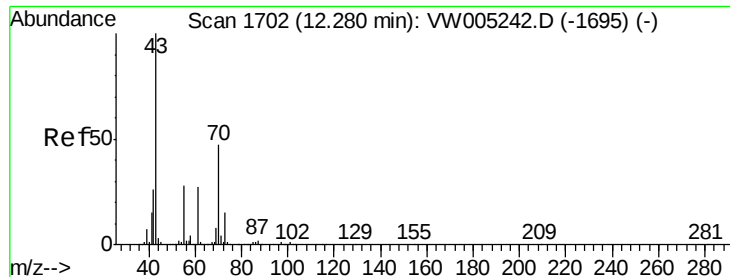
Tgt Ion:106 Resp: 13848
Ion Ratio Lower Upper
106 100
91 216.5 104.1 312.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1913
Delta R.T. 0.00 min
Lab File: VW005337.D
Acq: 12 Sep 2018 20:13

Tgt Ion:152 Resp: 211983
Ion Ratio Lower Upper
152 100
115 56.0 27.5 82.4
150 156.6 0.0 347.4





#74

N-amyI acetate

Concen: 1.692 ug/l

RT: 12.24 min Scan# 1696

Delta R.T. -0.04 min

Lab File: VW005337.D

Acq: 12 Sep 2018 20:13

Instrument :

MSVOA_W

ClientSampleId :

NB-08-091218

Tgt Ion: 43 Resp: 4822

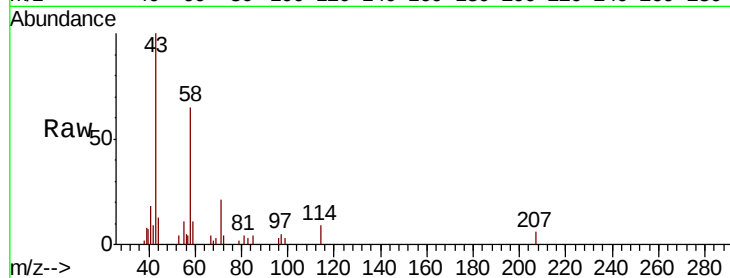
Ion Ratio Lower Upper

43 100

70 1.1 37.9 56.9#

55 25.8 22.6 33.8

61 0.0 20.9 31.3#

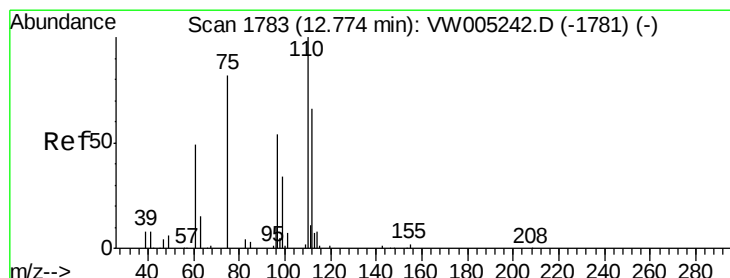
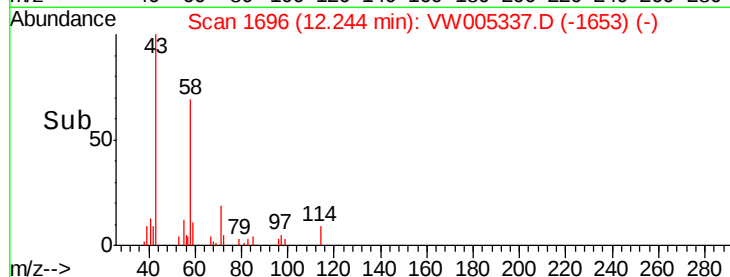
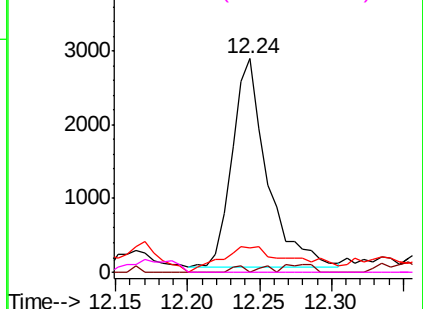


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW



#76

1,2,3-Trichloropropane

Concen: 52.023 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW005337.D

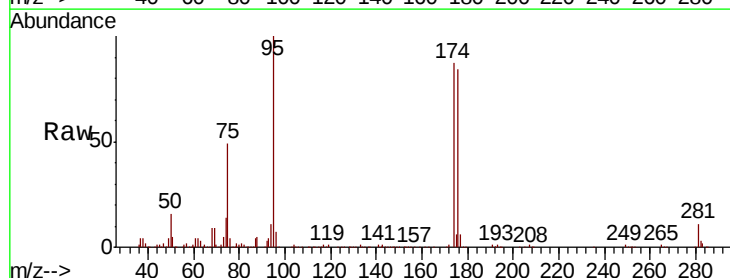
Acq: 12 Sep 2018 20:13

Tgt Ion: 75 Resp: 84822

Ion Ratio Lower Upper

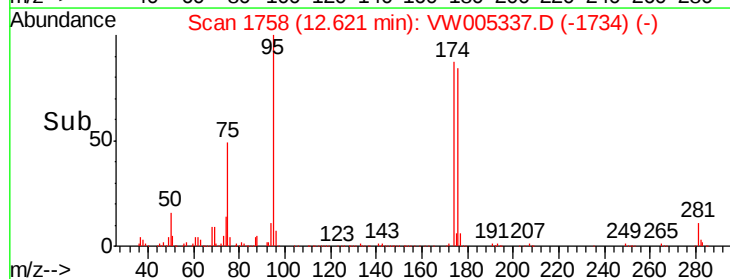
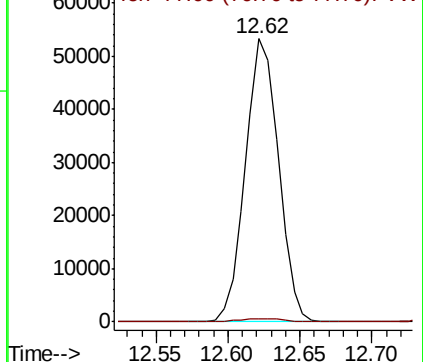
75 100

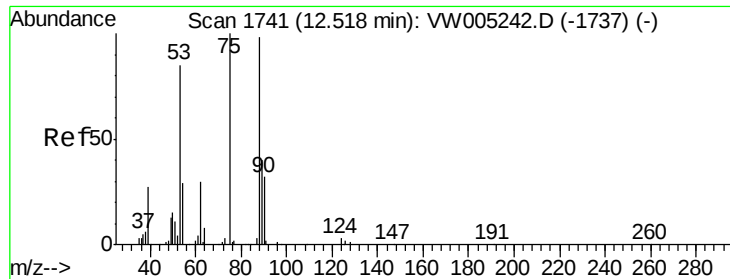
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 122.006 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW005337.D

Acq: 12 Sep 2018 20:13

Instrument :

MSVOA_W

ClientSampleId :

NB-08-091218

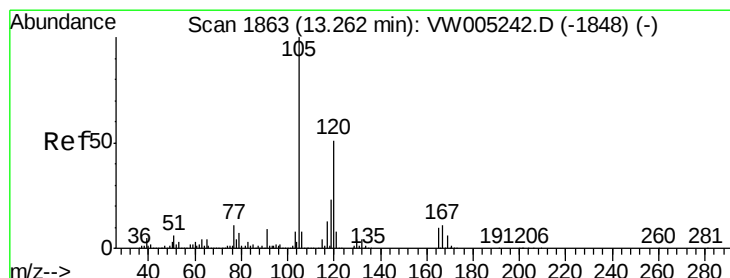
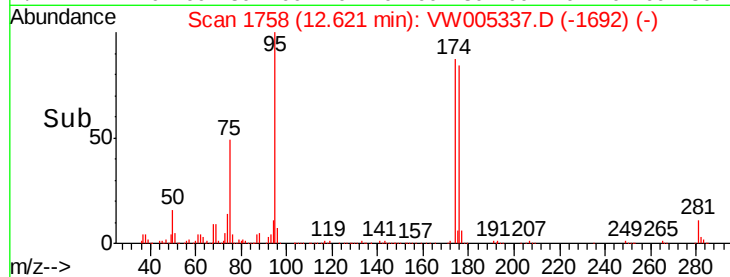
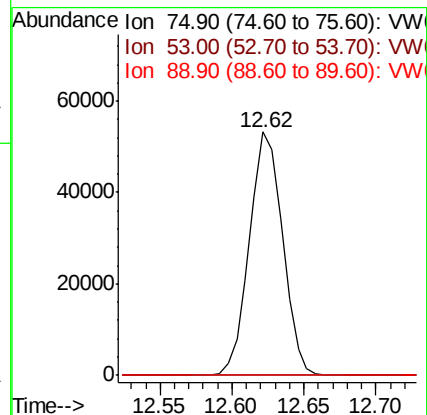
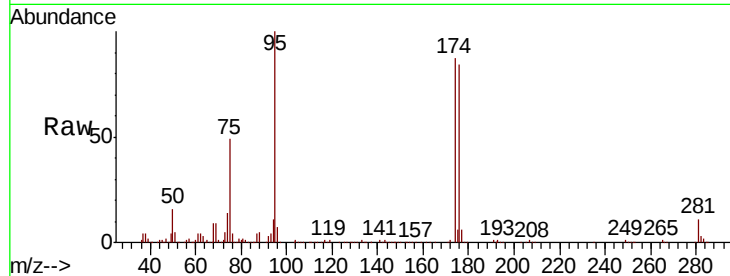
Tgt Ion: 75 Resp: 84822

Ion Ratio Lower Upper

75 100

53 0.2 67.0 100.6#

89 0.1 37.0 55.4#



#84

1,2,4-Trimethylbenzene

Concen: 1.374 ug/l

RT: 13.26 min Scan# 1862

Delta R.T. -0.01 min

Lab File: VW005337.D

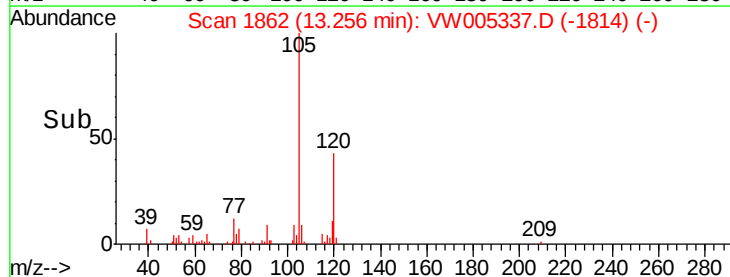
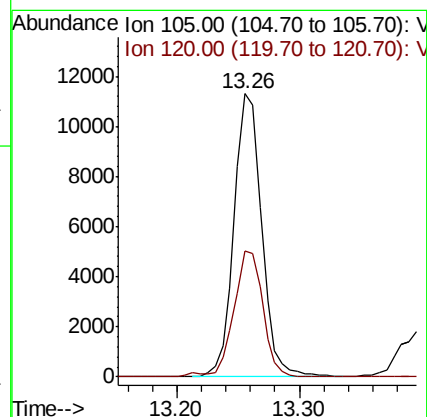
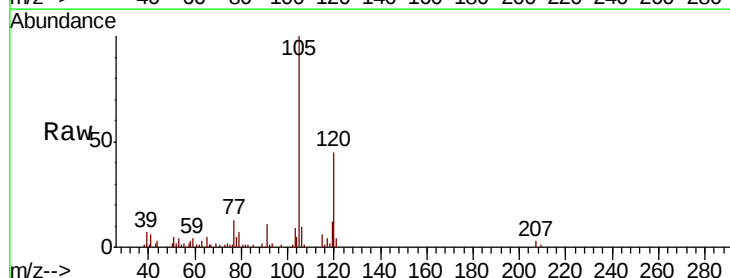
Acq: 12 Sep 2018 20:13

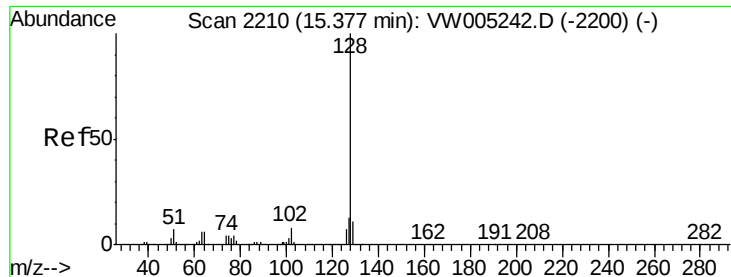
Tgt Ion: 105 Resp: 17613

Ion Ratio Lower Upper

105 100

120 47.1 23.4 70.3





#95
Naphthalene
Concen: 3.903 ug/l
RT: 15.38 min Scan# 2210
Delta R.T. 0.00 min
Lab File: VW005337.D
Acq: 12 Sep 2018 20:13

Instrument :
MSVOA_W
ClientSampleId :
NB-08-091218

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.5	10.3	15.5
129	13.4	8.8	13.2

