

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW031919\
 Data File : VW009261.D
 Acq On : 20 Mar 2019 02:25
 Operator : SY/VA
 Sample : K1971-08
 Misc : 3.10G/5ML/MSVOA W/SOIL
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SB-14(13-15)-031519

Quant Time: Mar 20 08:21:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W031919S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 20 07:22:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	270006	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	439842	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	419555	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	207289	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	182562	63.57	ug/l	0.00
Spiked Amount			Recovery	=	127.14%	
35) Dibromofluoromethane	7.88	113	149699	53.65	ug/l	0.00
Spiked Amount			Recovery	=	107.30%	
50) Toluene-d8	10.32	98	546697	53.92	ug/l	0.00
Spiked Amount			Recovery	=	107.84%	
62) 4-Bromofluorobenzene	12.62	95	204779	55.01	ug/l	0.00
Spiked Amount			Recovery	=	110.02%	

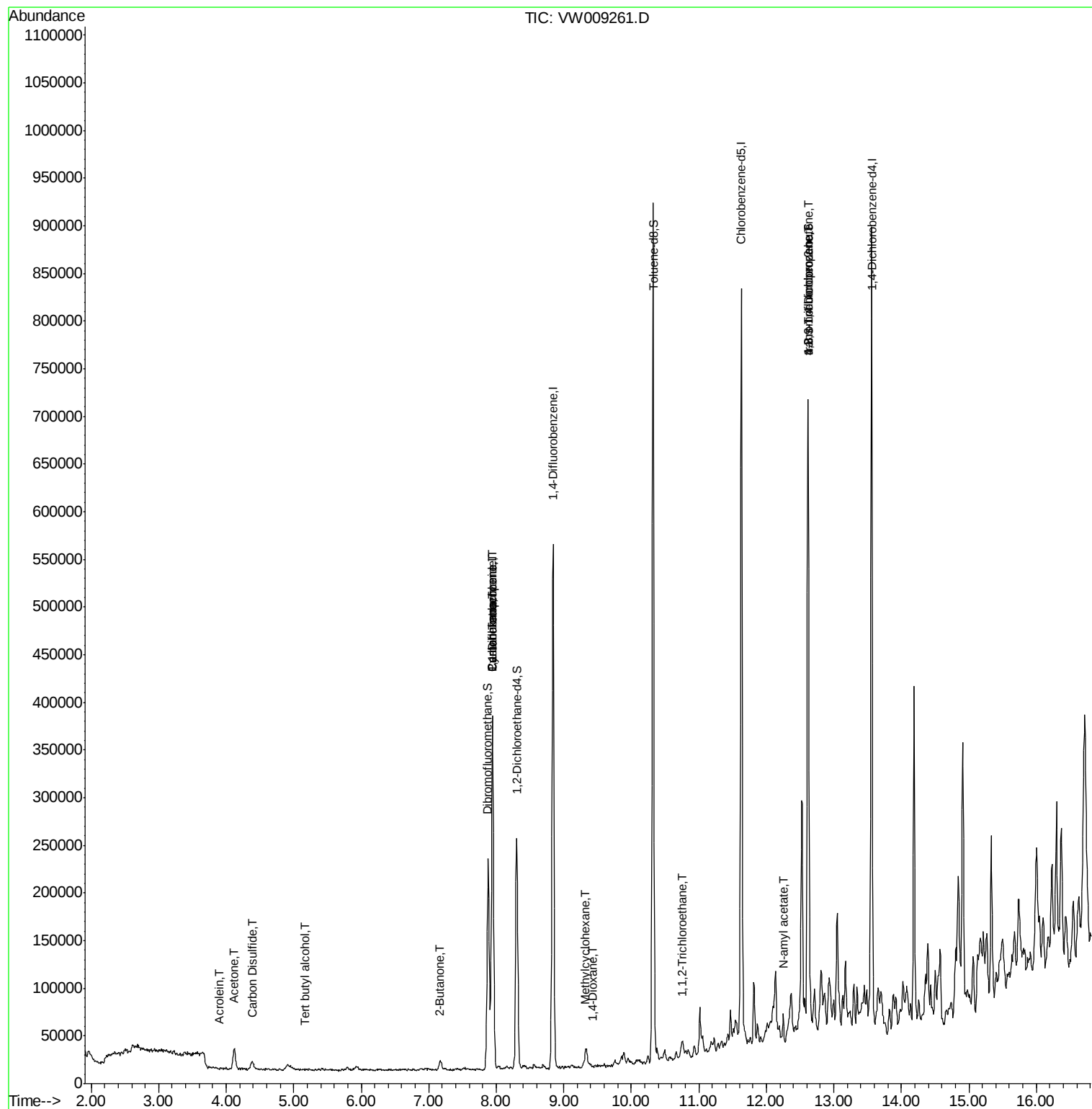
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	406	Below Cal	#	41
11) Tert butyl alcohol	5.17	59	474	2.843	ug/l #	70
13) Acrolein	3.89	56	157	1.154	ug/l #	58
16) Acetone	4.12	43	39808	67.559	ug/l	97
17) Carbon Disulfide	4.38	76	14994	2.087	ug/l	99
20) Methylene Chloride	4.91	84	4200	Below Cal	#	91
25) 2-Butanone	7.17	43	13005	15.403	ug/l	95
31) Cyclohexane	7.95	56	10145	2.153	ug/l #	49
36) 1,1-Dichloropropene	7.95	75	21800	4.981	ug/l #	44
38) Carbon Tetrachloride	7.94	117	27028	5.835	ug/l #	18
39) Methylcyclohexane	9.33	83	7136	1.409	ug/l	90
49) 1,4-Dioxane	9.43	88	54	2.098	ug/l #	1
55) 1,1,2-Trichloroethane	10.76	97	5288	2.354	ug/l #	20
74) N-amyl acetate	12.26	43	6877	1.903	ug/l #	64
76) 1,2,3-Trichloropropane	12.62	75	111113	57.041	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	111113	139.962	ug/l #	7

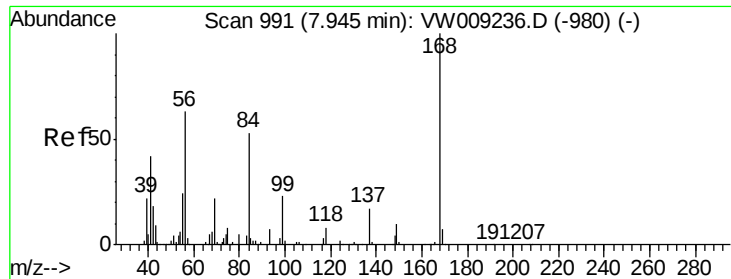
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW031919\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W031919S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 20 07:22:50 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW009261.D

Acq: 20 Mar 2019 02:25

Instrument :

MSVOA_W

ClientSampleId :

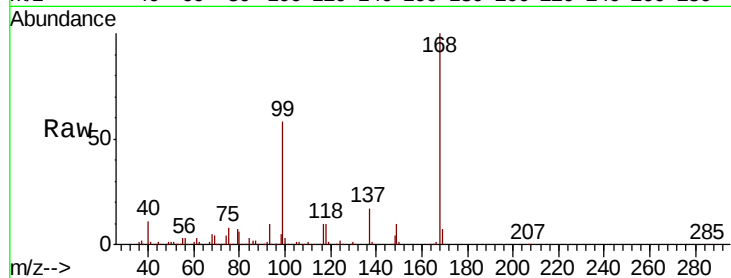
SB-14(13-15)-031519

Tot Ion:168 Resp: 270006

Ion Ratio Lower Upper

168 100

99 58.2 45.4 68.0



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

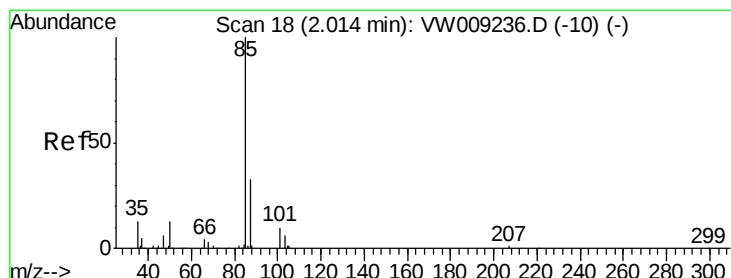
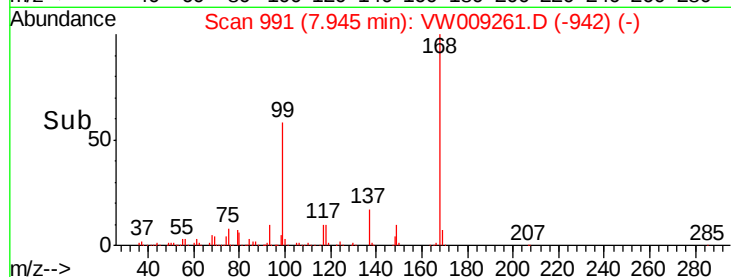
7.95

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 16

Delta R.T. -0.01 min

Lab File: VW009261.D

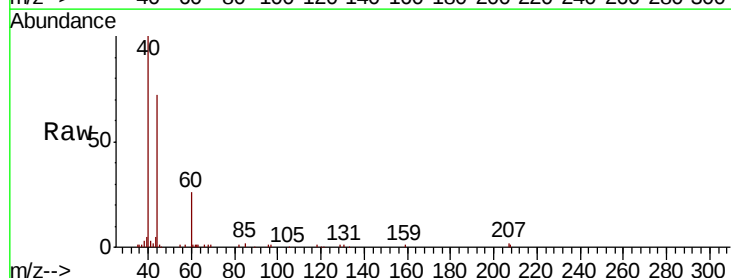
Acq: 20 Mar 2019 02:25

Tgt Ion: 85 Resp: 406

Ion Ratio Lower Upper

85 100

87 0.0 16.7 50.1#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

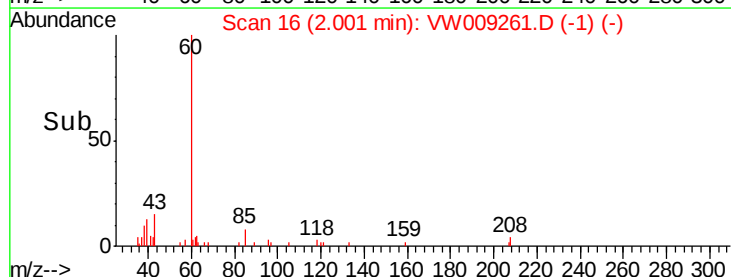
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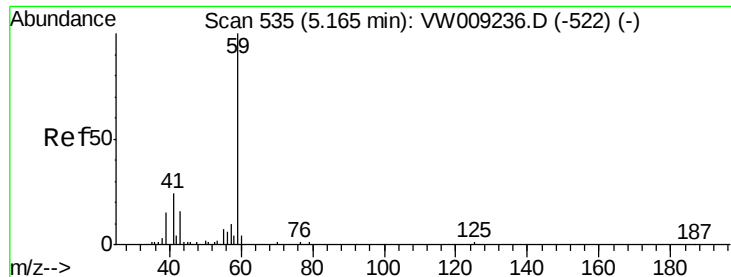
200

100

0

Time--> 1.96 1.98 2.00 2.02



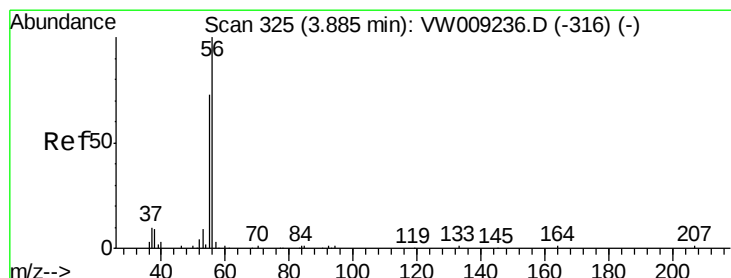
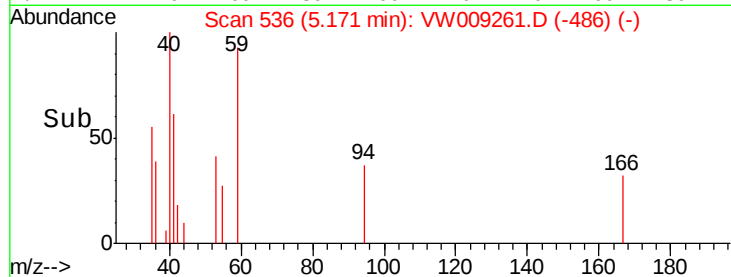
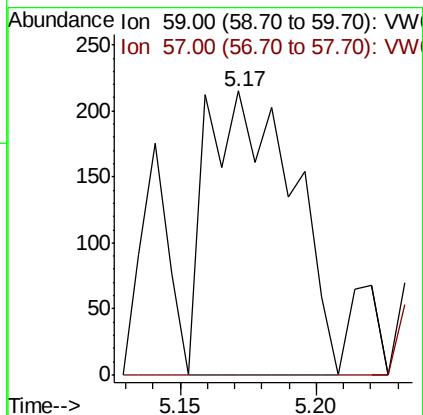
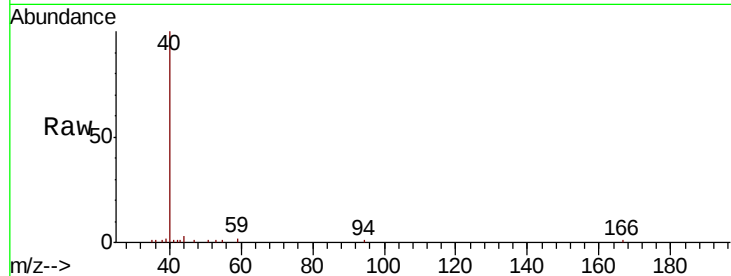


#11

Tert butvl alcohol
 Concen: 2.843 ug/l
 RT: 5.17 min Scan# 536
 Delta R.T. 0.01 min
 Lab File: VW009261.D
 Acq: 20 Mar 2019 02:25

Instrument :
 MSVOA_W
 ClientSampleId :
 SB-14(13-15)-031519

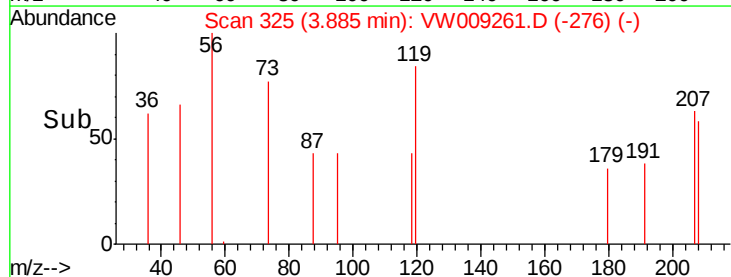
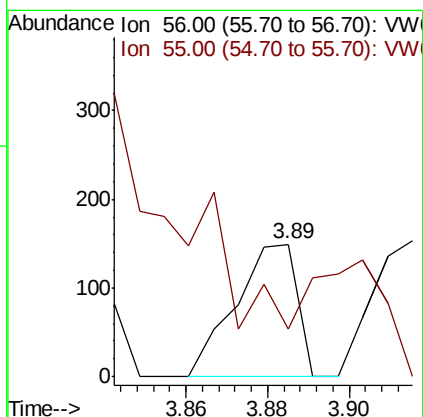
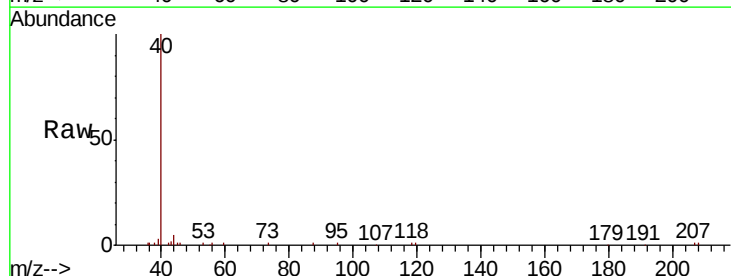
Tot Ion: 59 Resp: 474
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.4 14.0#

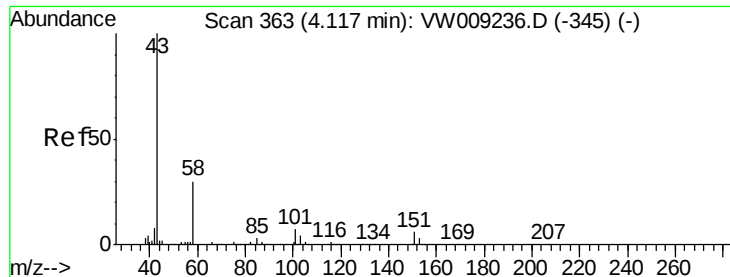


#13

Acrolein
 Concen: 1.154 ug/l
 RT: 3.89 min Scan# 325
 Delta R.T. -0.00 min
 Lab File: VW009261.D
 Acq: 20 Mar 2019 02:25

Tgt Ion: 56 Resp: 157
 Ion Ratio Lower Upper
 56 100
 55 103.2 55.2 82.8#





#16

Acetone

Concen: 67.559 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW009261.D

Acq: 20 Mar 2019 02:25

Instrument :

MSVOA_W

ClientSampleId :

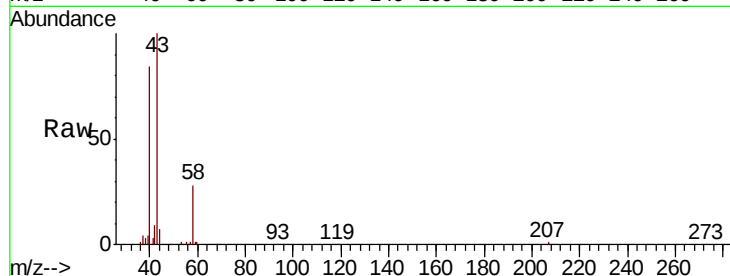
SB-14(13-15)-031519

Tot Ion: 43 Resp: 39808

Ion Ratio Lower Upper

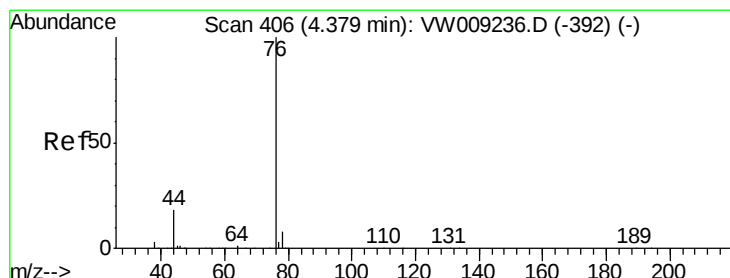
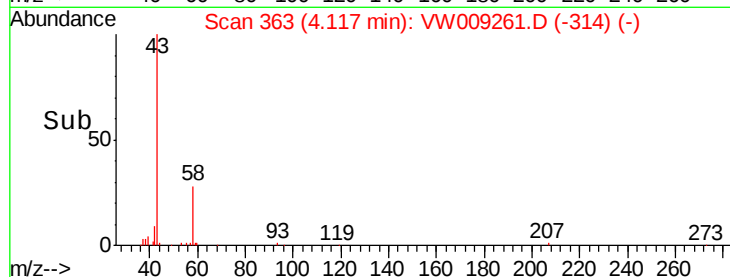
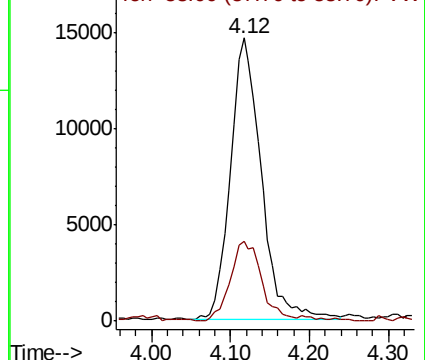
43 100

58 27.8 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#17

Carbon Disulfide

Concen: 2.087 ug/l

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW009261.D

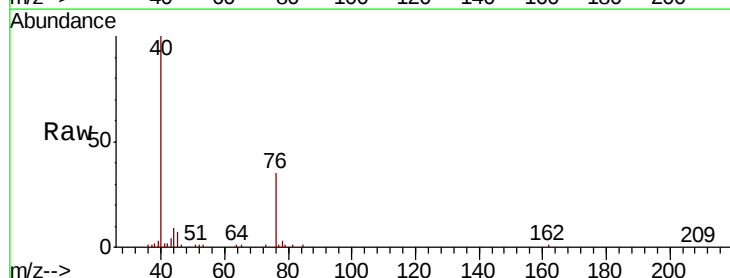
Acq: 20 Mar 2019 02:25

Tgt Ion: 76 Resp: 14994

Ion Ratio Lower Upper

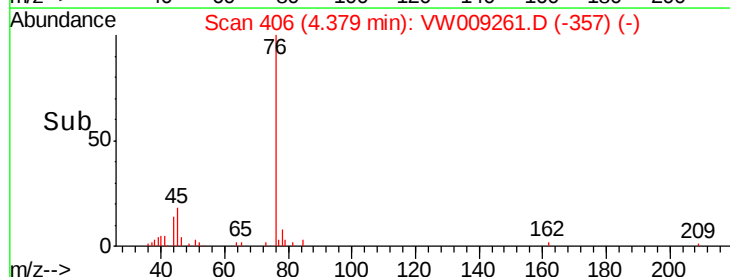
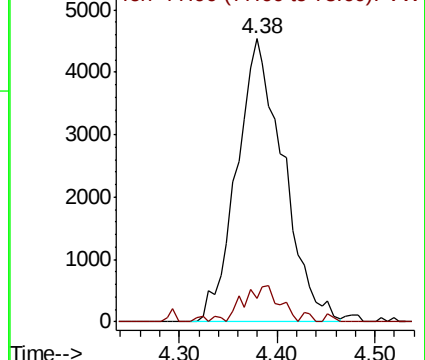
76 100

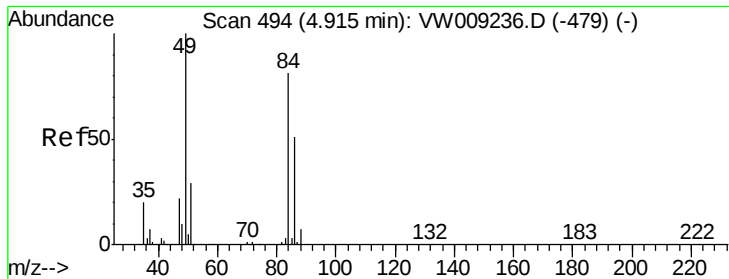
78 8.5 6.6 9.8



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW

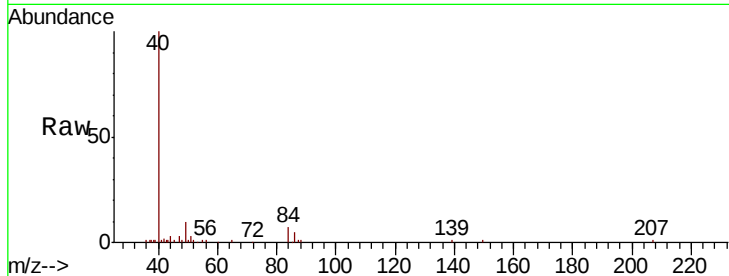




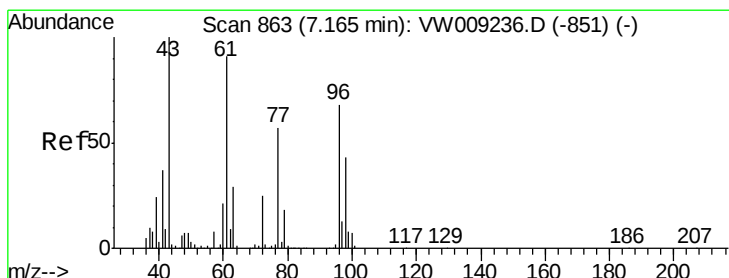
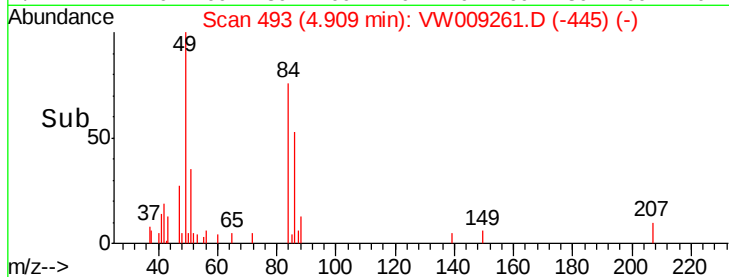
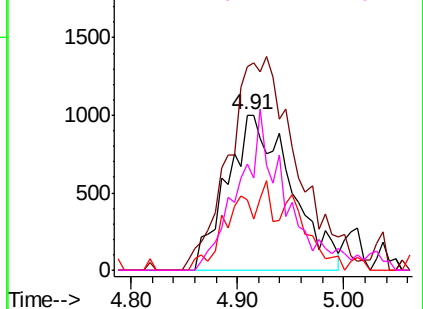
#20
Methylene Chloride
Concen: Below Cal
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW009261.D
Acq: 20 Mar 2019 02:25

Instrument :
MSVOA_W
ClientSampleId :
SB-14(13-15)-031519

Tot Ion: 84 Resp: 4200
Ion Ratio Lower Upper
84 100
49 116.3 99.1 148.7
51 45.7 28.7 43.1#
86 68.8 50.5 75.7

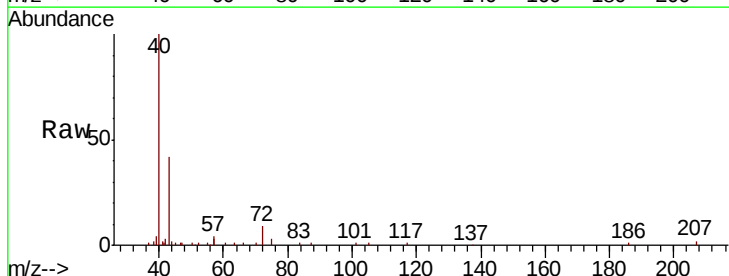


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

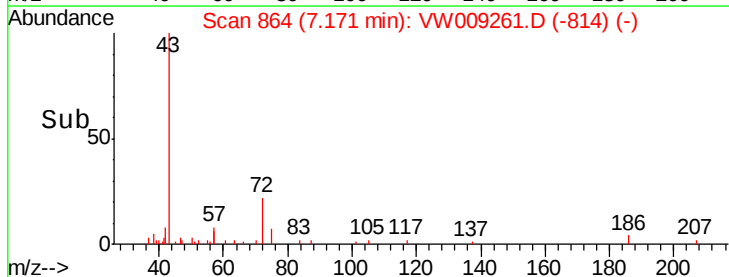
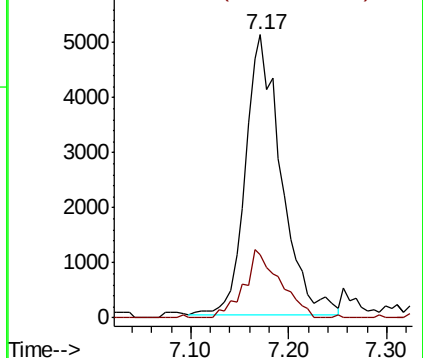


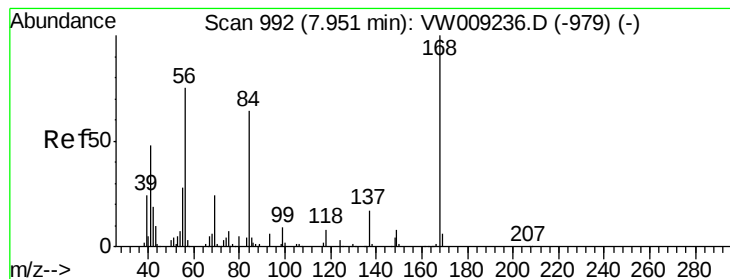
#25
2-Butanone
Concen: 15.403 ug/l
RT: 7.17 min Scan# 864
Delta R.T. 0.01 min
Lab File: VW009261.D
Acq: 20 Mar 2019 02:25

Tgt Ion: 43 Resp: 13005
Ion Ratio Lower Upper
43 100
72 22.7 20.0 30.0



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





#31

Cyclohexane

Concen: 2.153 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW009261.D

Acq: 20 Mar 2019 02:25

Instrument :

MSVOA_W

ClientSampleId :

SB-14(13-15)-031519

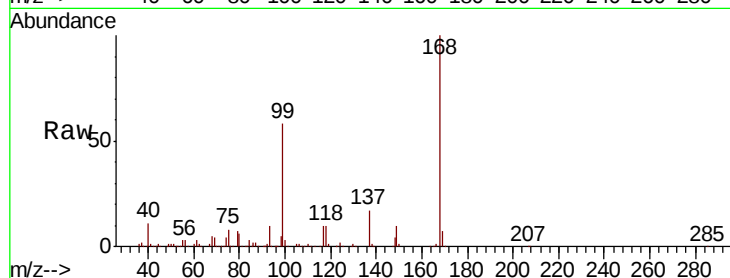
Tot Ion: 56 Resp: 10145

Ion Ratio Lower Upper

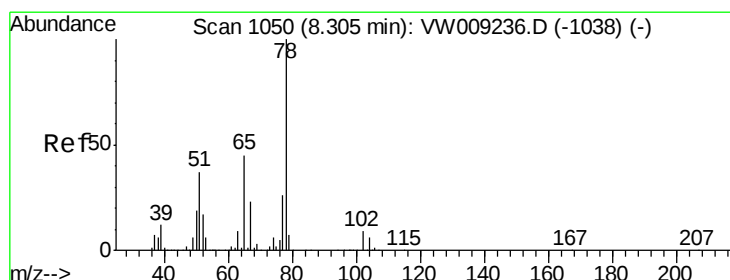
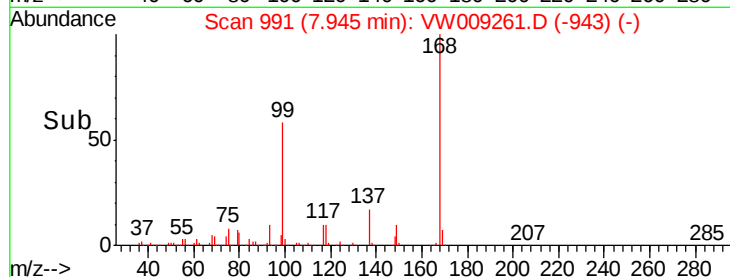
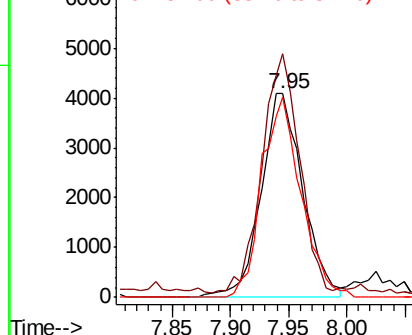
56 100

69 116.2 26.1 39.1#

84 98.2 68.6 103.0



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: 63.566 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW009261.D

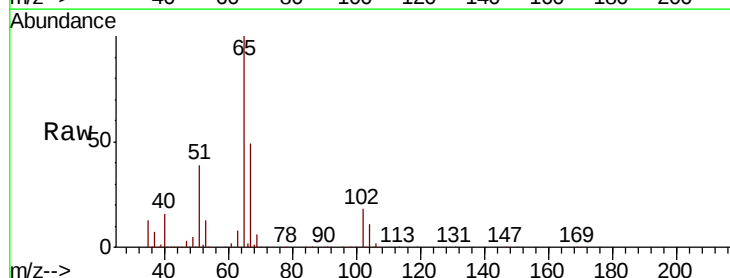
Acq: 20 Mar 2019 02:25

Tgt Ion: 65 Resp: 182562

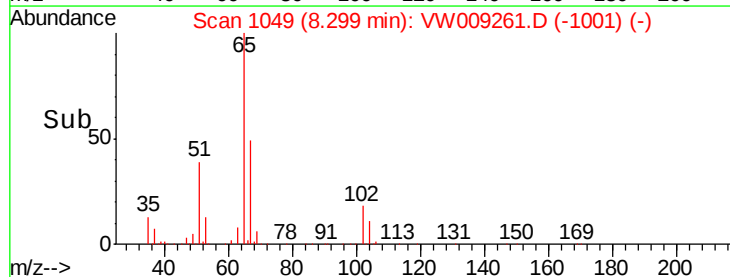
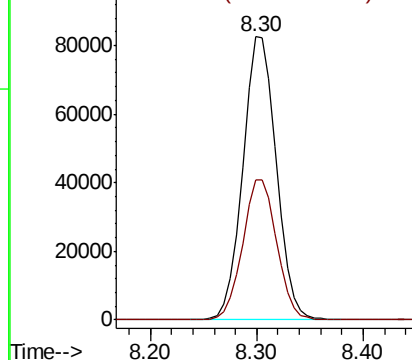
Ion Ratio Lower Upper

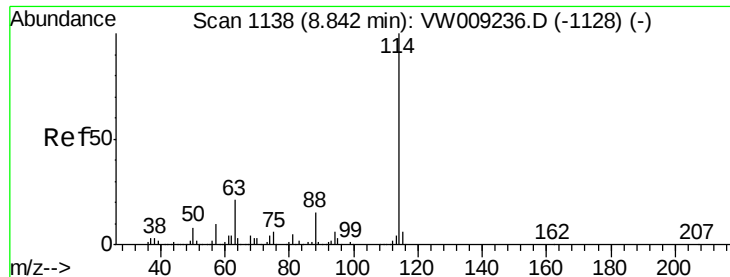
65 100

67 50.6 0.0 102.4



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW

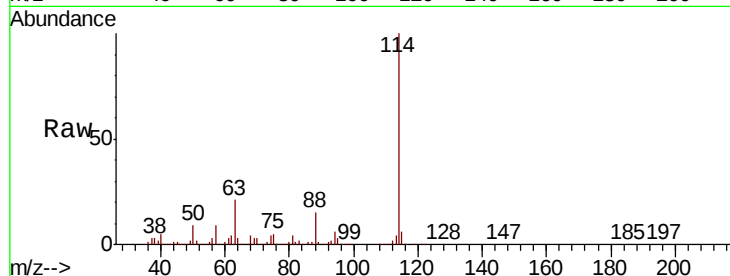




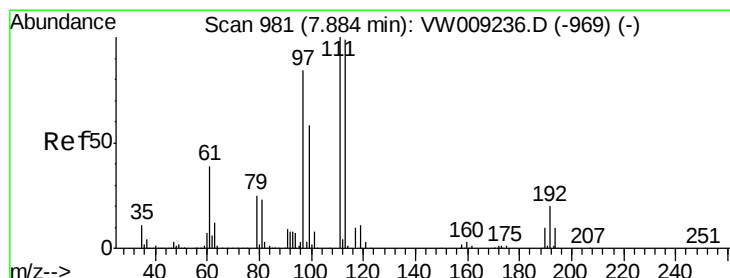
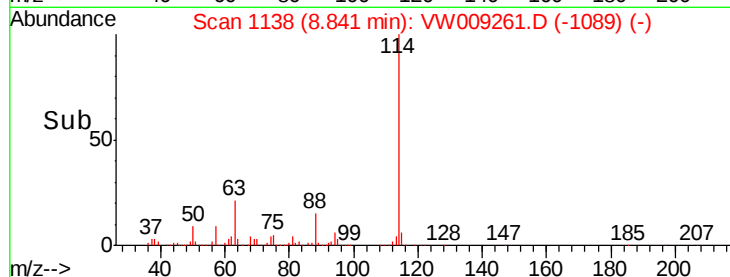
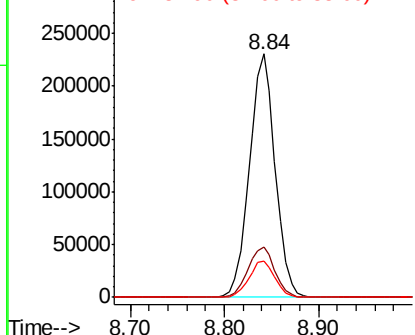
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW009261.D
 Acq: 20 Mar 2019 02:25

Instrument :
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 SB-14(13-15)-031519

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	42.2
88	14.9	0.0	30.8

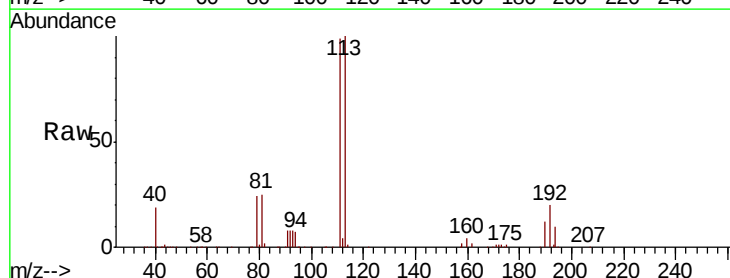


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

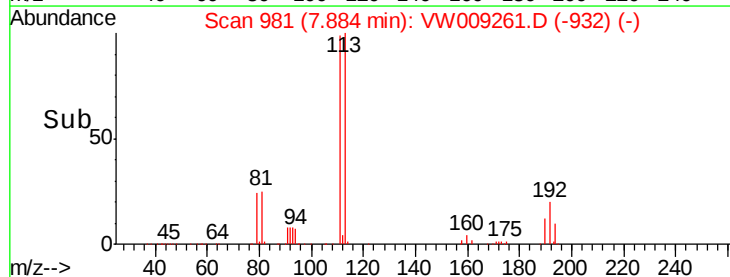
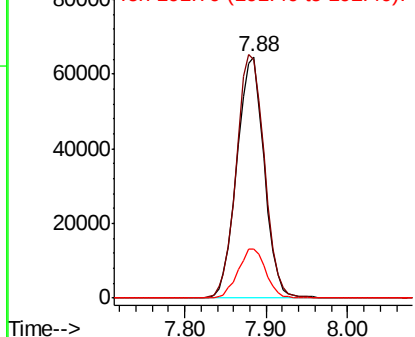


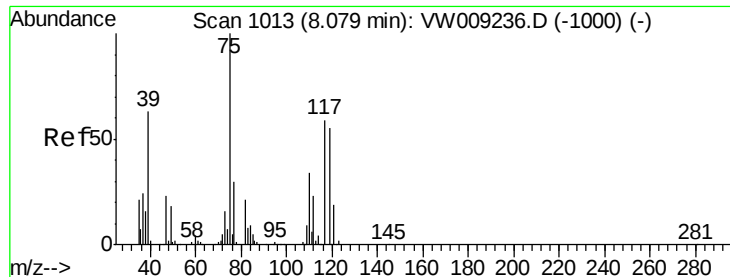
#35
 Dibromofluoromethane
 Concen: 53.653 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW009261.D
 Acq: 20 Mar 2019 02:25

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.6	124.0
192	20.7	16.4	24.6



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

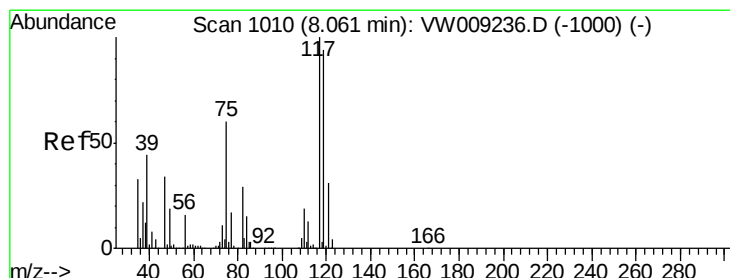
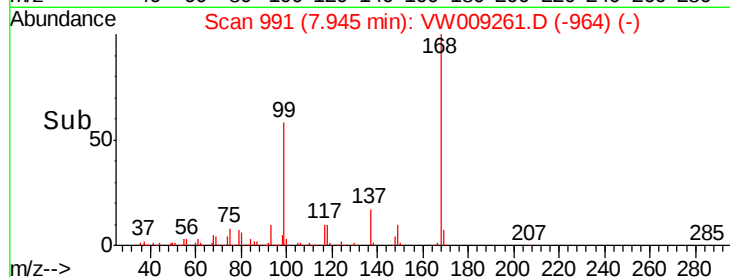
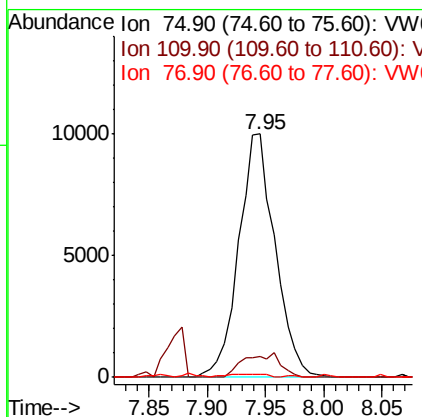
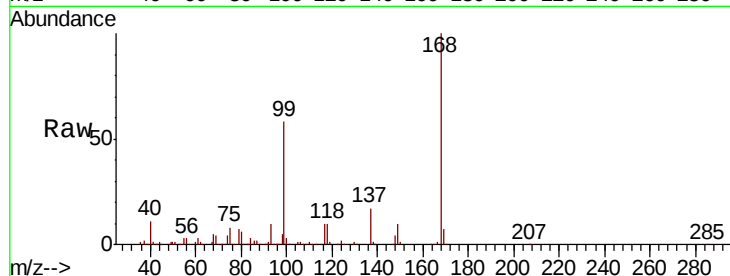




#36
 1,1-Dichloropropene
 Concen: 4.981 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW009261.D
 Acq: 20 Mar 2019 02:25

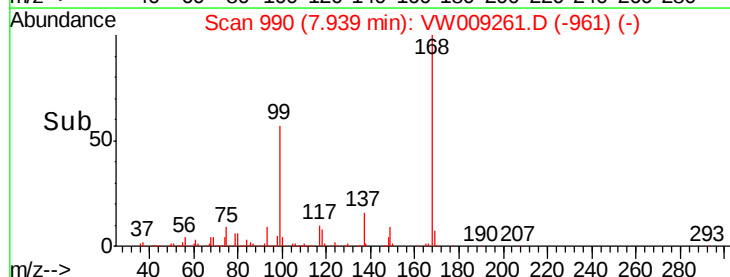
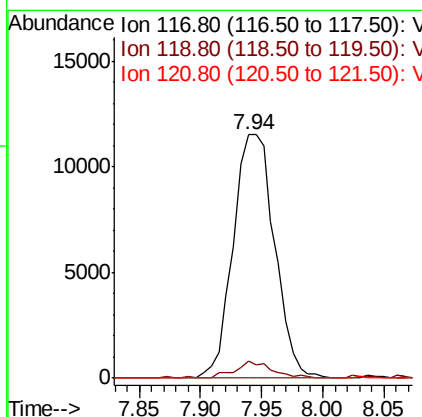
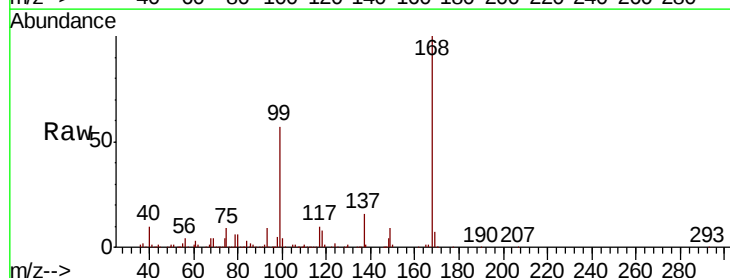
Instrument :
 MSVOA_W
 ClientSampleId :
 SB-14(13-15)-031519

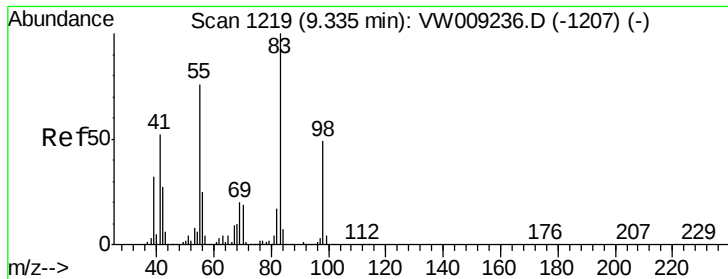
Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	16.8	50.4#
77	1.4	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.835 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.12 min
 Lab File: VW009261.D
 Acq: 20 Mar 2019 02:25

Tgt Ion	Ratio	Lower	Upper
117	100		
119	7.1	75.4	113.0#
121	0.0	24.9	37.3#

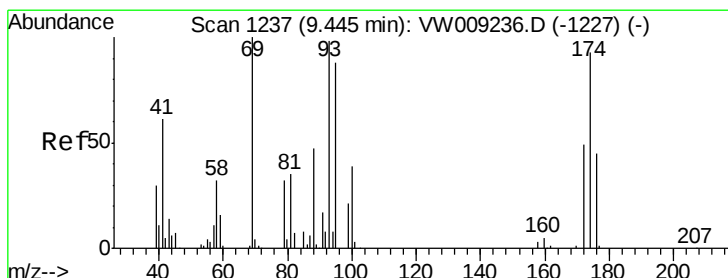
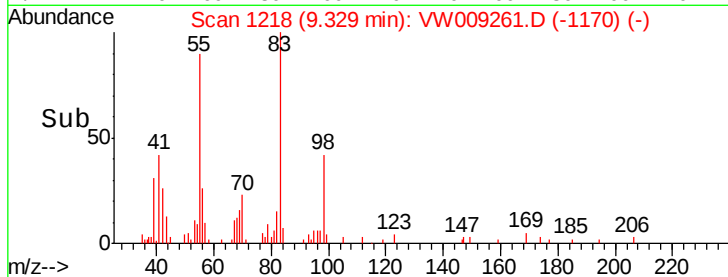
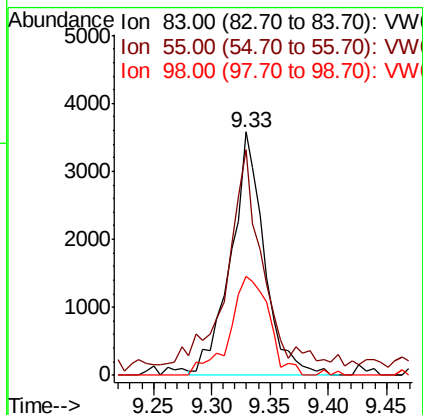
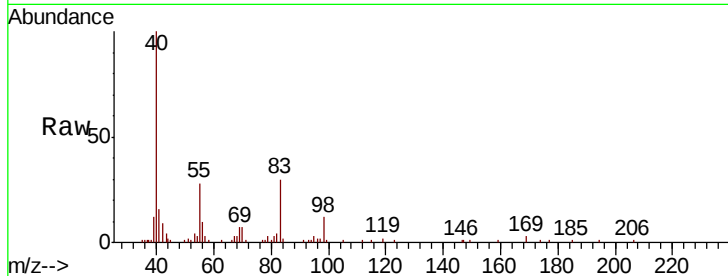




#39
Methylcyclohexane
Concen: 1.409 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW009261.D
Acq: 20 Mar 2019 02:25

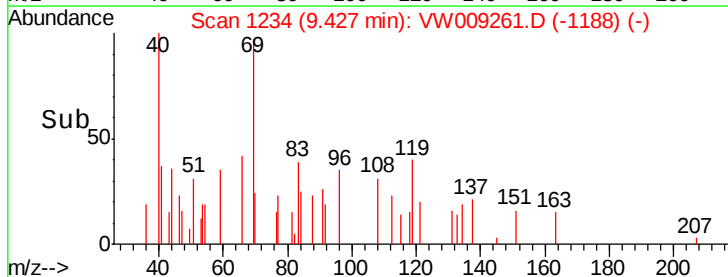
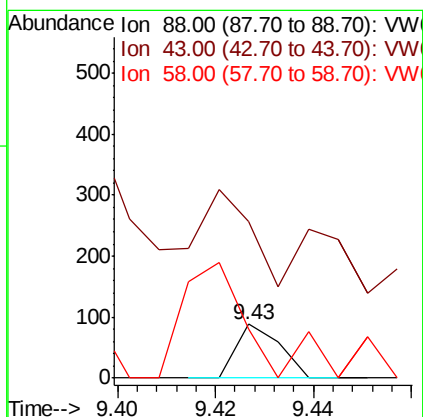
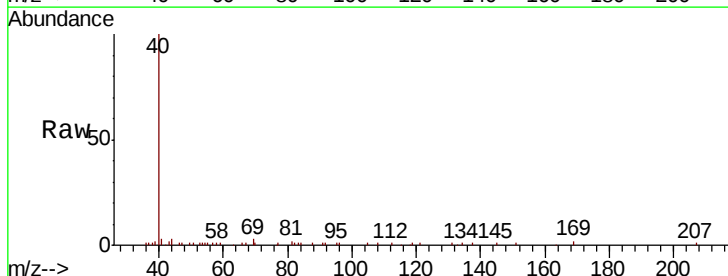
Instrument :
MSVOA_W
ClientSampleId :
SB-14(13-15)-031519

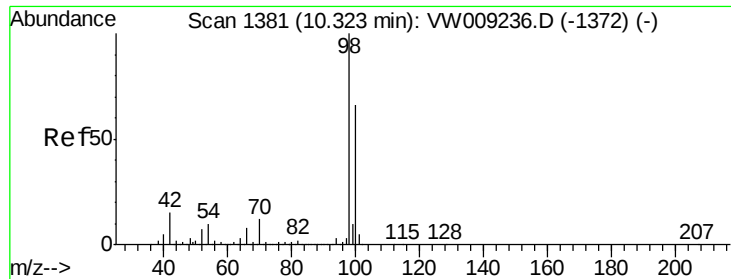
Tot Ion: 83 Resp: 7136
Ion Ratio Lower Upper
83 100
55 84.4 61.1 91.7
98 40.8 39.0 58.4



#49
1,4-Dioxane
Concen: 2.098 ug/l
RT: 9.43 min Scan# 1234
Delta R.T. -0.02 min
Lab File: VW009261.D
Acq: 20 Mar 2019 02:25

Tgt Ion: 88 Resp: 54
Ion Ratio Lower Upper
88 100
43 0.0 29.7 44.5#
58 290.7 58.1 87.1#





#50

Toluene-d8

Concen: 53.917 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW009261.D

Acq: 20 Mar 2019 02:25

Instrument :

MSVOA_W

ClientSampleId :

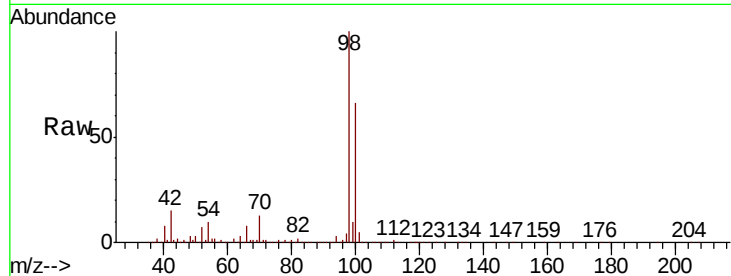
SB-14(13-15)-031519

Tot Ion: 98 Resp: 546697

Ion Ratio Lower Upper

98 100

100 65.9 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

10.32

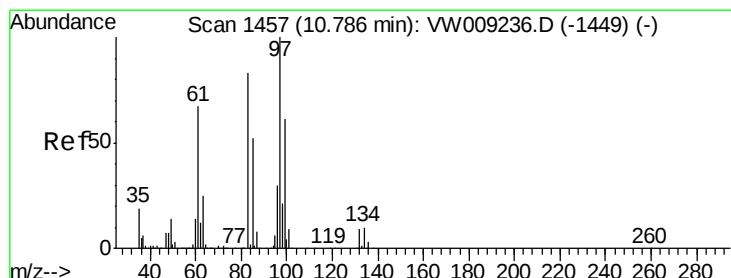
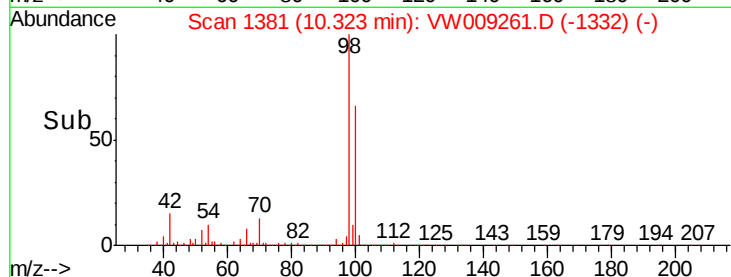
300000

200000

100000

0

Time--> 10.20 10.30 10.40



#55

1,1,2-Trichloroethane

Concen: 2.354 ug/l

RT: 10.76 min Scan# 1452

Delta R.T. -0.03 min

Lab File: VW009261.D

Acq: 20 Mar 2019 02:25

Tgt Ion: 97 Resp: 5288

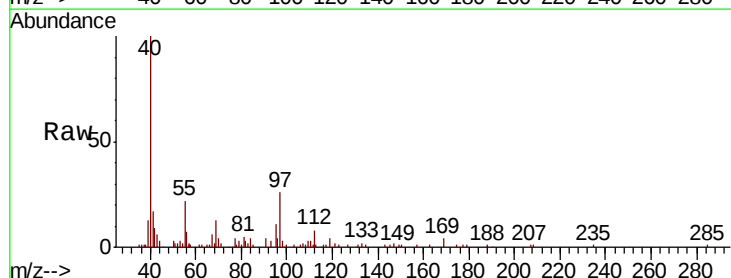
Ion Ratio Lower Upper

97 100

83 3.3 66.3 99.5#

85 4.2 41.4 62.2#

99 1.8 48.7 73.1#



Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW

5000

4000

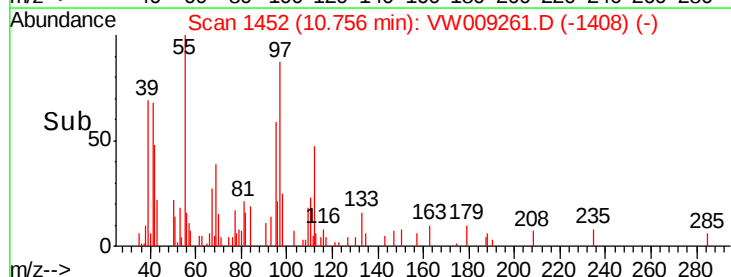
3000

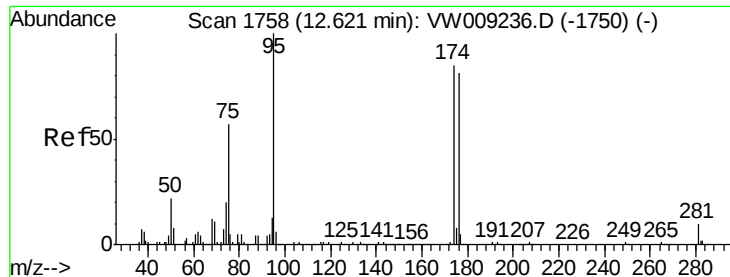
2000

1000

0

Time--> 10.70 10.75 10.80





#62

4-Bromofluorobenzene

Concen: 55.006 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.01 min

Lab File: VW009261.D

Acq: 20 Mar 2019 02:25

Instrument :

MSVOA_W

ClientSampleId :

SB-14(13-15)-031519

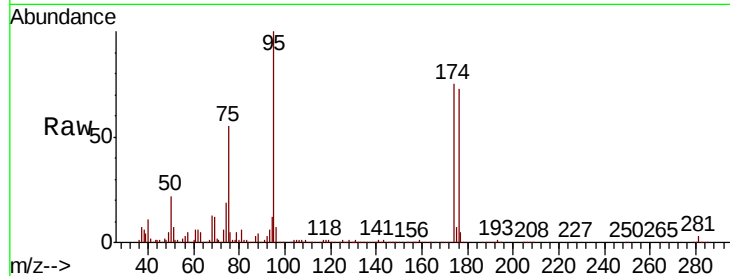
Tot Ion: 95 Resp: 204779

Ion Ratio Lower Upper

95 100

174 82.3 0.0 168.4

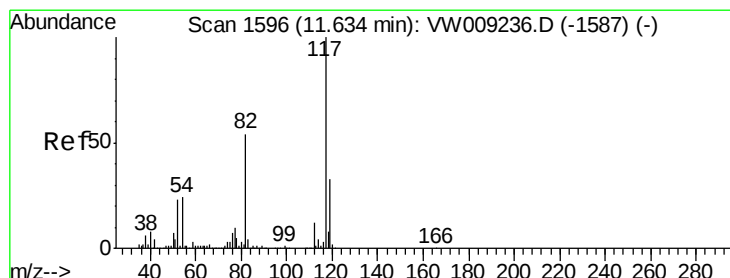
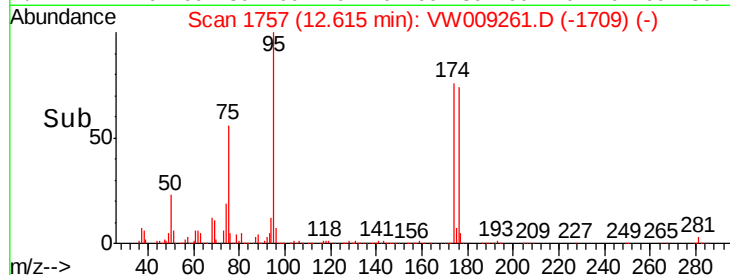
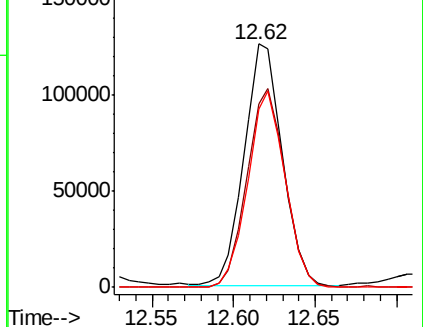
176 79.3 0.0 161.6



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW009261.D

Acq: 20 Mar 2019 02:25

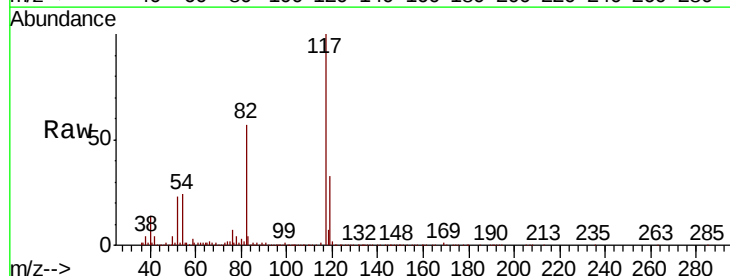
Tgt Ion: 117 Resp: 419555

Ion Ratio Lower Upper

117 100

82 57.2 43.6 65.4

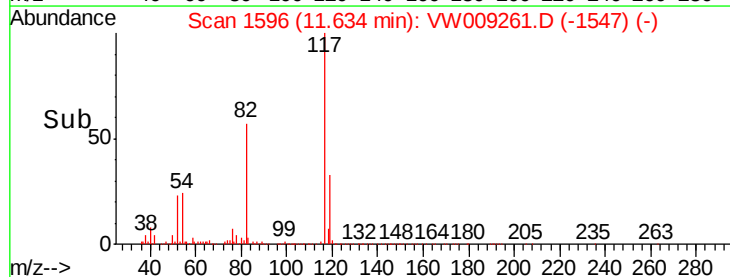
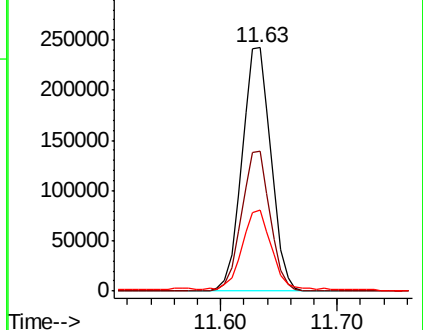
119 32.6 26.0 39.0

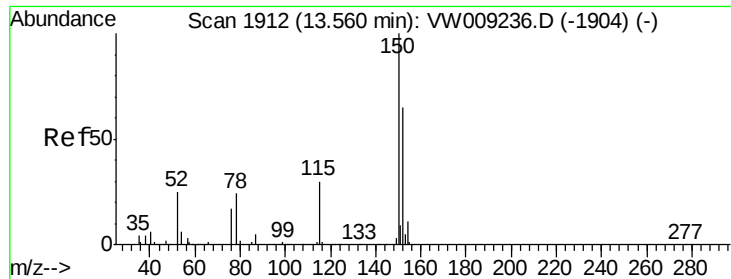


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW009261.D

Acq: 20 Mar 2019 02:25

Instrument :

MSVOA_W

ClientSampleId :

SB-14(13-15)-031519

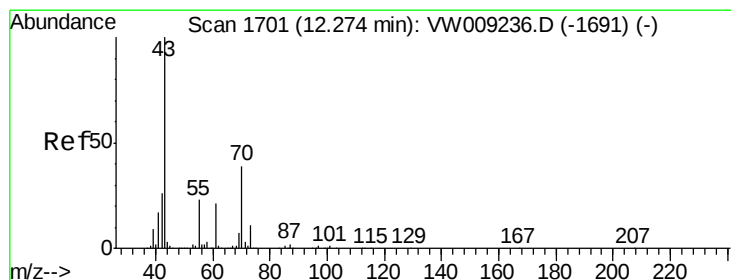
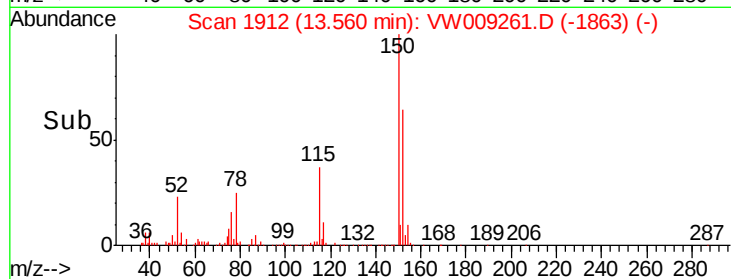
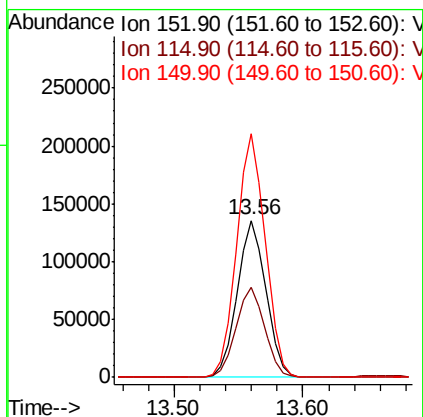
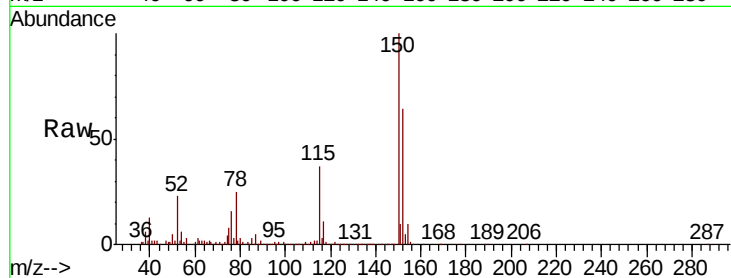
Tot Ion:152 Resp: 207289

Ion Ratio Lower Upper

152 100

115 57.4 29.6 88.8

150 155.9 0.0 349.2



#74

N-ethyl acetate

Concen: 1.903 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW009261.D

Acq: 20 Mar 2019 02:25

Tgt Ion: 43 Resp: 6877

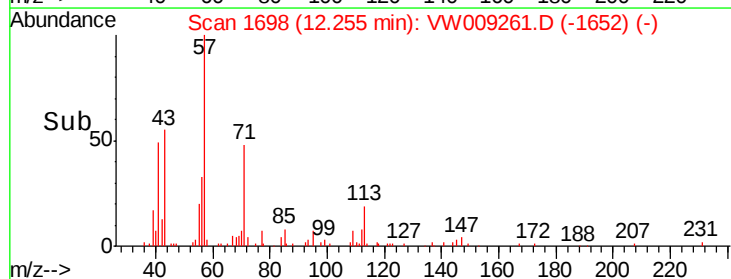
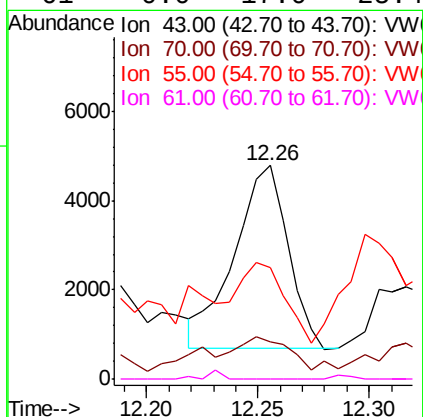
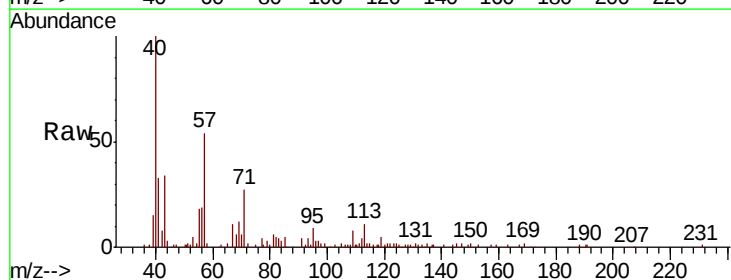
Ion Ratio Lower Upper

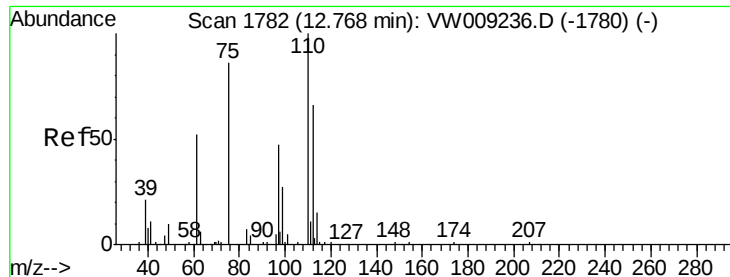
43 100

70 17.8 30.6 46.0#

55 39.6 19.3 28.9#

61 0.0 17.0 25.4#

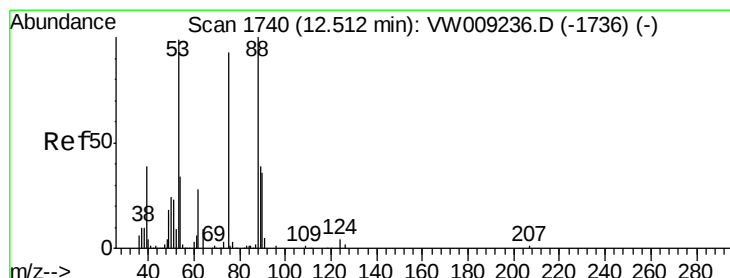
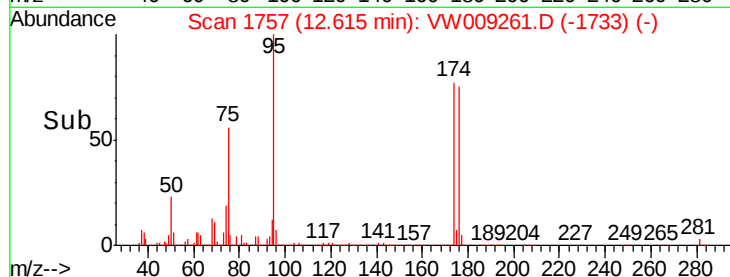
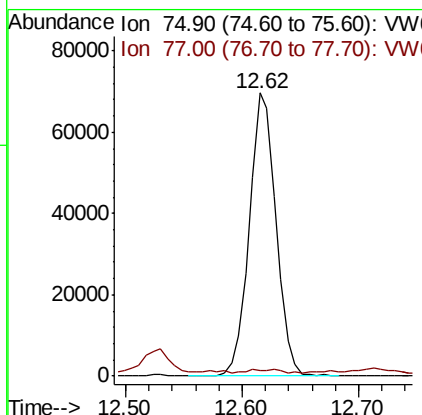
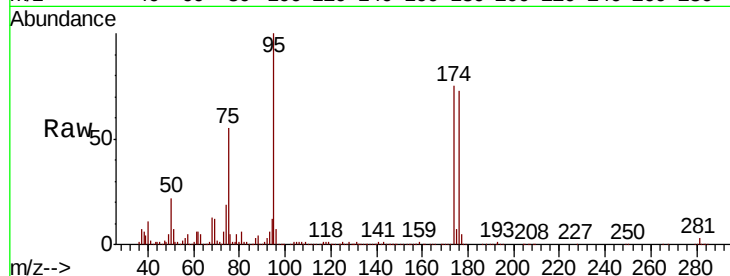




#76
 1,2,3-Trichloropropane
 Concen: 57.041 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW009261.D
 Acq: 20 Mar 2019 02:25

Instrument :
 MSVOA_W
 ClientSampleId :
 SB-14(13-15)-031519

Tot Ion: 75 Resp: 111113
 Ion Ratio Lower Upper
 75 100
 77 1.7 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 139.962 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW009261.D
 Acq: 20 Mar 2019 02:25

Tgt Ion: 75 Resp: 111113
 Ion Ratio Lower Upper
 75 100
 53 0.0 86.7 130.1#
 89 0.3 36.4 54.6#

