

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW033119\
 Data File : VW009611.D
 Acq On : 31 Mar 2019 15:27
 Operator : SY/VA
 Sample : K2130-04
 Misc : 6.92G/5.0ML/MSVOA W/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Apr 01 04:55:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W032919S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 29 13:24:53 2019
 Response via : Initial Calibration

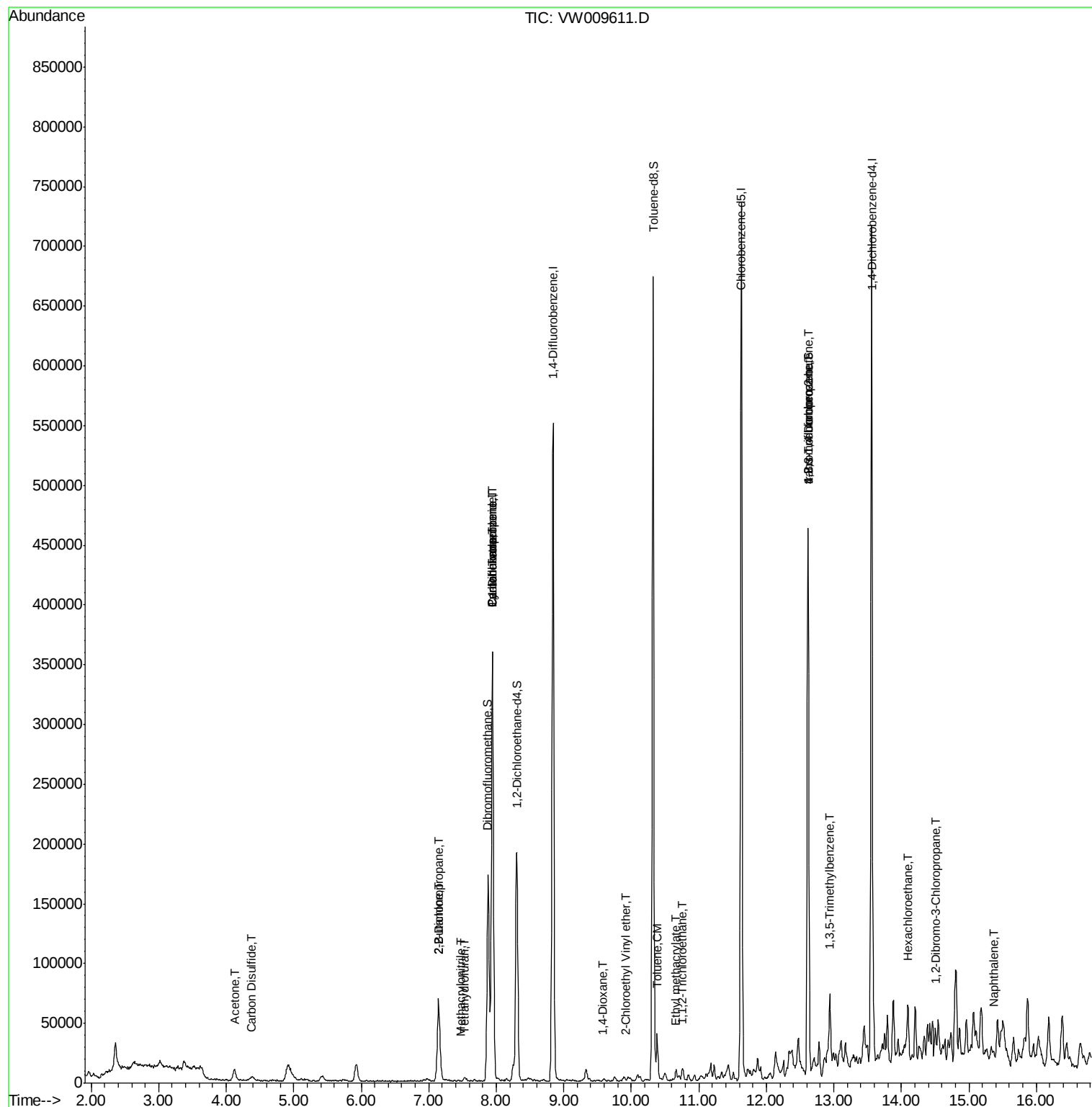
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	252284	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	416358	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	381016	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	168759	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	145343	50.38	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.76%	
35) Dibromofluoromethane	7.88	113	117277	44.85	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.70%	
50) Toluene-d8	10.32	98	401931	41.58	ug/l	0.00
Spiked Amount 50.000			Recovery	=	83.16%	
62) 4-Bromofluorobenzene	12.62	95	129291	35.86	ug/l	0.00
Spiked Amount 50.000			Recovery	=	71.72%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.01	85	19	Below Cal	#	41
16) Acetone	4.13	43	18725	28.868	ug/l #	79
17) Carbon Disulfide	4.37	76	7625	1.100	ug/l #	93
20) Methylene Chloride	4.91	84	5288	Below Cal	#	87
25) 2-Butanone	7.15	43	5207	5.809	ug/l #	73
26) 2,2-Dichloropropane	7.15	77	4968	1.716	ug/l #	52
29) Tetrahydrofuran	7.54	42	2013	3.617	ug/l #	88
31) Cyclohexane	7.95	56	7573	1.596	ug/l #	27
36) 1,1-Dichloropropene	7.95	75	22724	5.277	ug/l #	52
38) Carbon Tetrachloride	7.95	117	27034	6.126	ug/l #	19
41) Methacrylonitrile	7.46	41	102	3.992	ug/l #	21
49) 1,4-Dioxane	9.58	88	62	2.574	ug/l #	1
52) Toluene	10.38	92	14821	2.029	ug/l	98
55) 1,1,2-Trichloroethane	10.76	97	2900	1.326	ug/l #	26
56) Ethyl methacrylate	10.65	69	1089	4.129	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.92	63	40	17.042	ug/l #	46
76) 1,2,3-Trichloropropane	12.62	75	75992	47.884	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.94	105	15630	1.580	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.62	75	75992	111.354	ug/l #	7
90) Hexachloroethane	14.10	117	2858	1.351	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.50	75	410	1.011	ug/l #	8
95) Naphthalene	15.37	128	4363	3.353	ug/l #	89

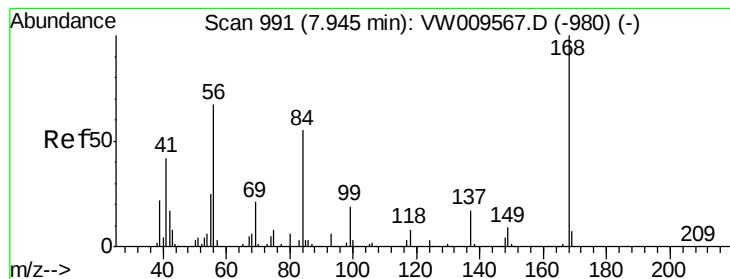
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Mar 29 13:24:53 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: VW009611.D

Acq: 31 Mar 2019 15:27

Instrument :

MSVOA_W

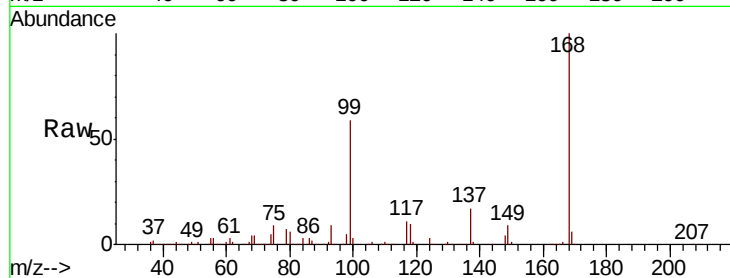
ClientSampled :

Tot Ion:168 Resp: 252284

Ion Ratio Lower Upper

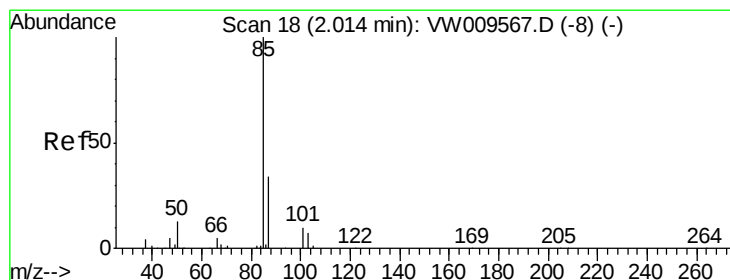
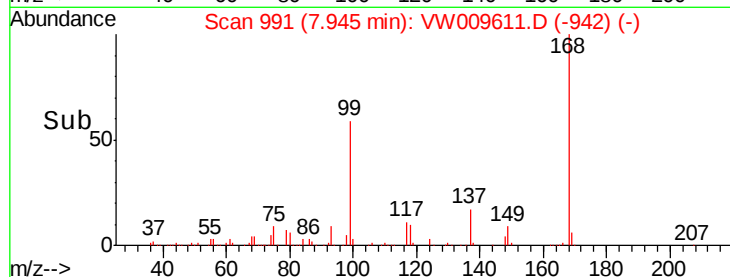
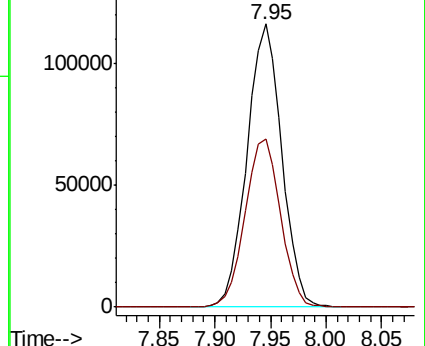
168 100

99 59.3 45.4 68.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW009611.D

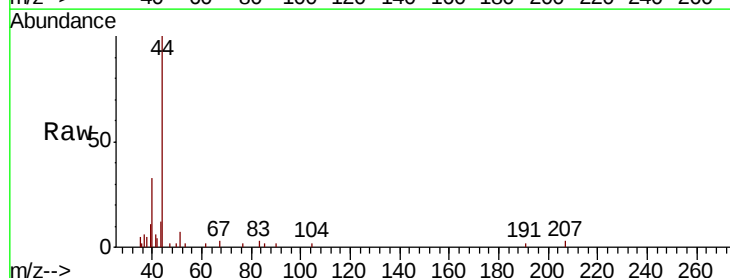
Acq: 31 Mar 2019 15:27

Tgt Ion: 85 Resp: 19

Ion Ratio Lower Upper

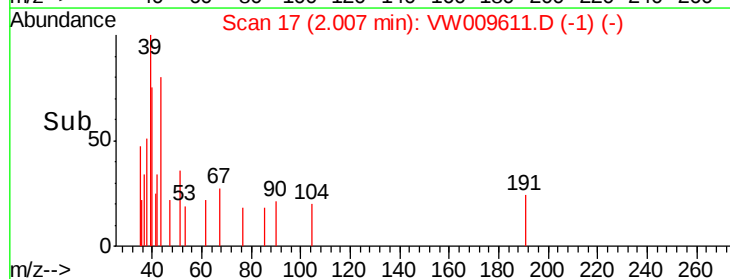
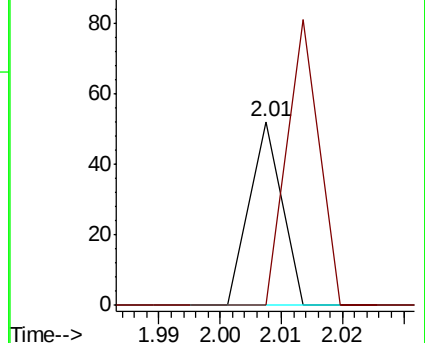
85 100

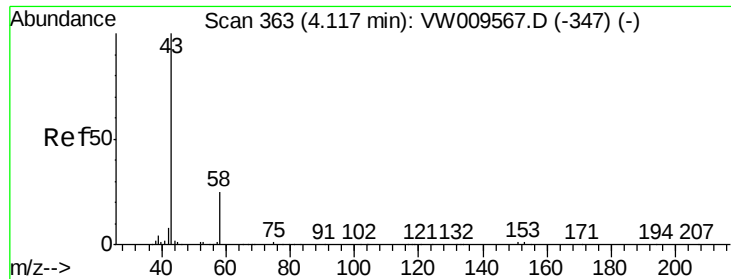
87 0.0 16.7 50.1#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#16

Acetone

Concen: 28.868 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW009611.D

Acq: 31 Mar 2019 15:27

Instrument :

MSVOA_W

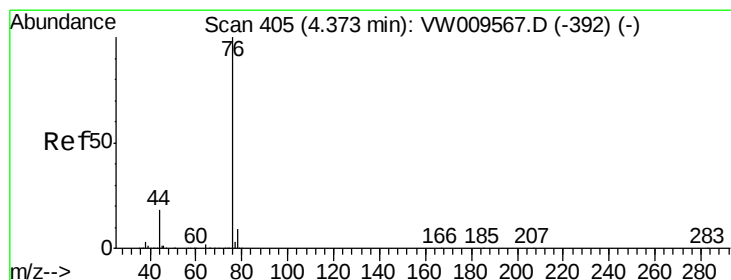
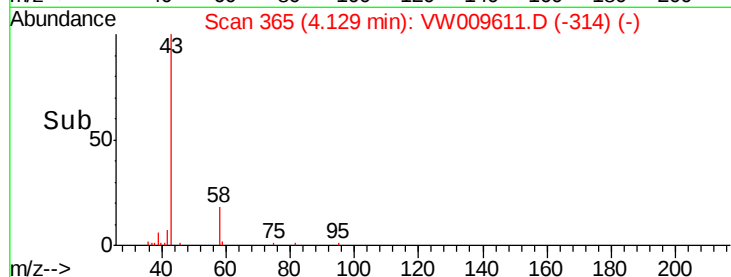
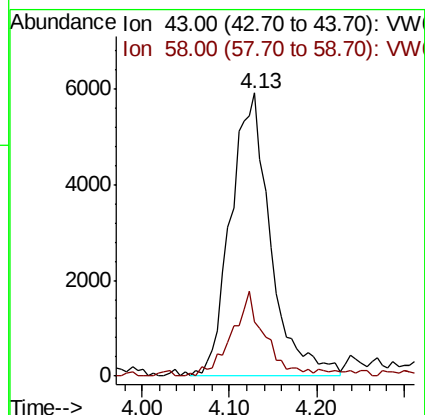
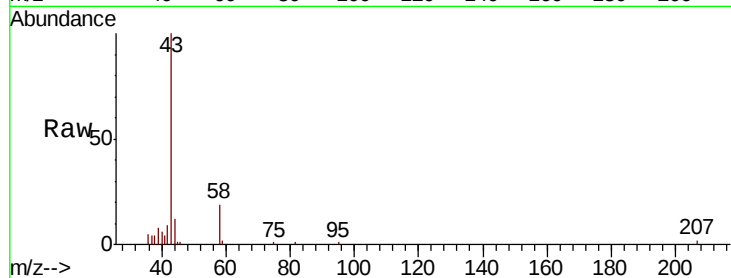
ClientSampleId :

Tot Ion: 43 Resp: 18725

Ion Ratio Lower Upper

43 100

58 18.2 23.6 35.4#



#17

Carbon Disulfide

Concen: 1.100 ug/l

RT: 4.37 min Scan# 405

Delta R.T. -0.00 min

Lab File: VW009611.D

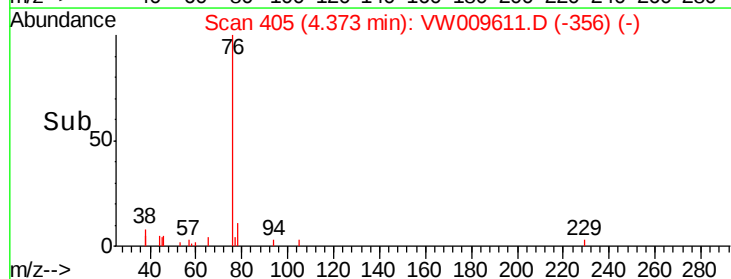
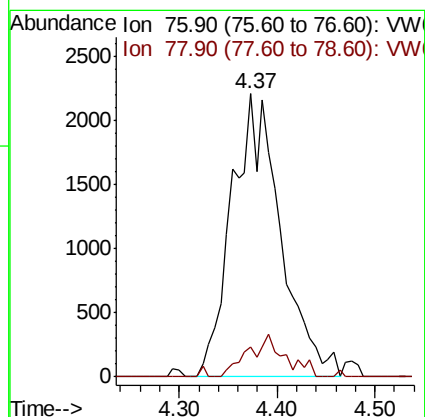
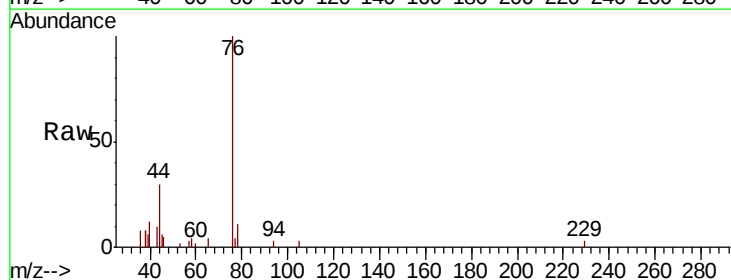
Acq: 31 Mar 2019 15:27

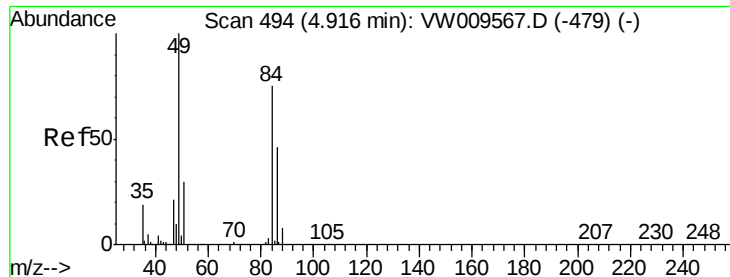
Tgt Ion: 76 Resp: 7625

Ion Ratio Lower Upper

76 100

78 10.6 6.6 9.8#





#20

Methylene Chloride

Concen: Below Cal

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW009611.D

Acq: 31 Mar 2019 15:27

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 84 Resp: 5288

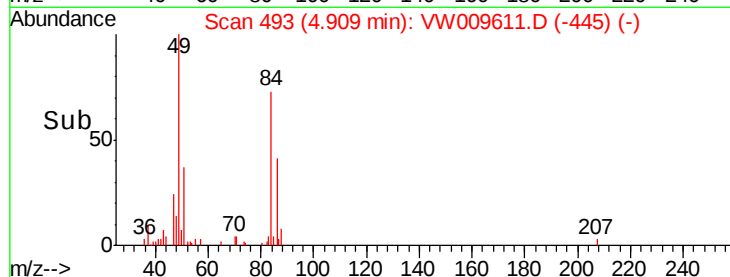
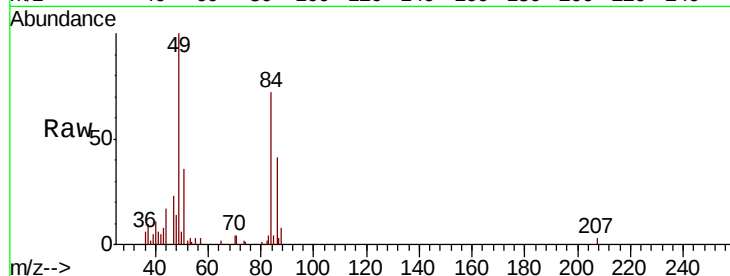
Ion Ratio Lower Upper

84 100

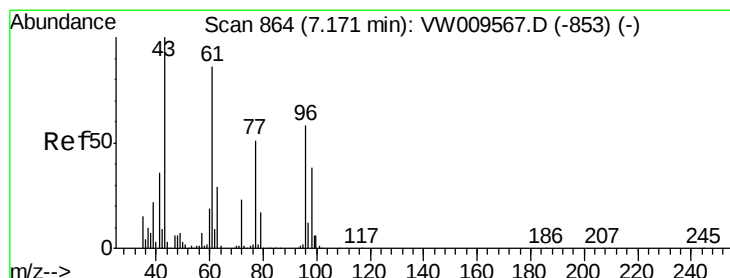
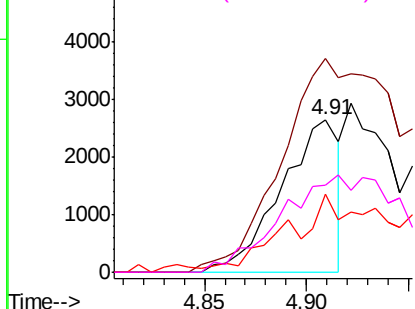
49 139.6 99.1 148.7

51 47.0 28.7 43.1#

86 56.6 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: 5.809 ug/l

RT: 7.15 min Scan# 861

Delta R.T. -0.02 min

Lab File: VW009611.D

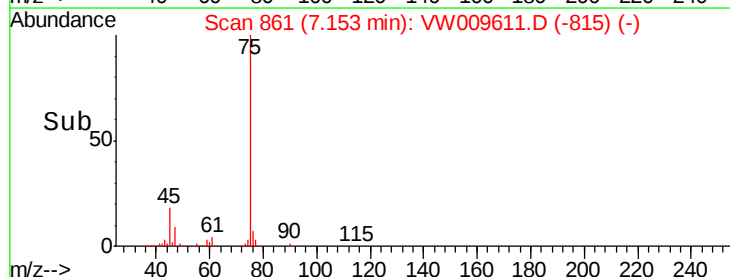
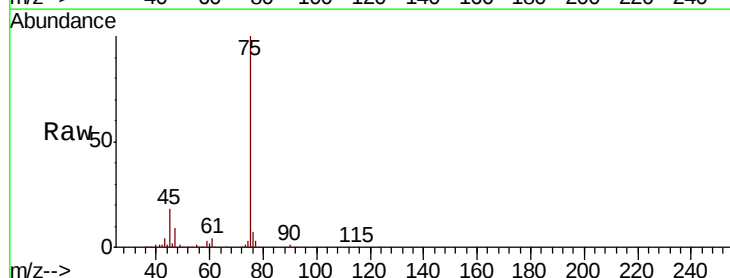
Acq: 31 Mar 2019 15:27

Tgt Ion: 43 Resp: 5207

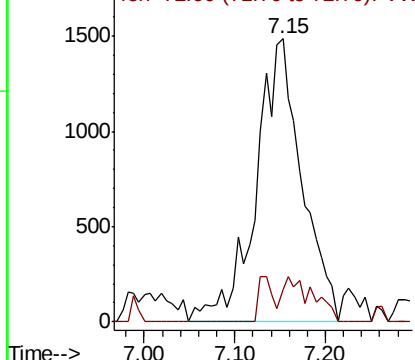
Ion Ratio Lower Upper

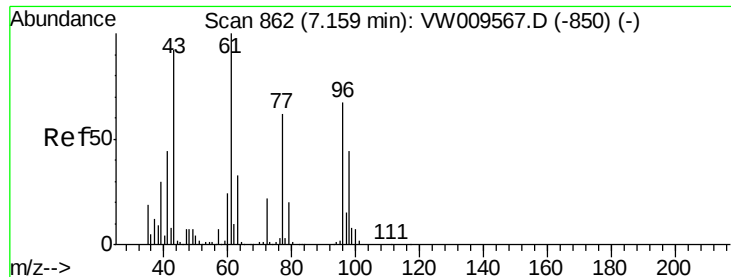
43 100

72 11.6 20.0 30.0#



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





#26

2,2-Dichloropropane

Concen: 1.716 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.01 min

Lab File: VW009611.D

Acq: 31 Mar 2019 15:27

Instrument :

MSVOA_W

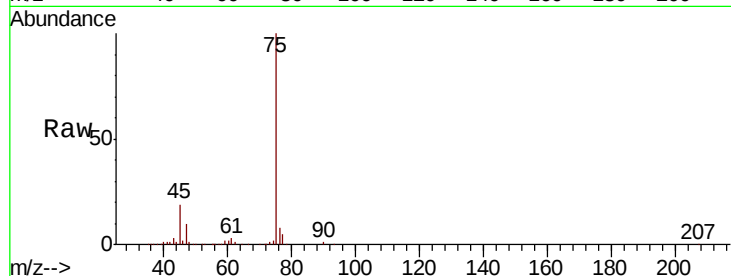
ClientSampleId :

Tot Ion: 77 Resp: 4968

Ion Ratio Lower Upper

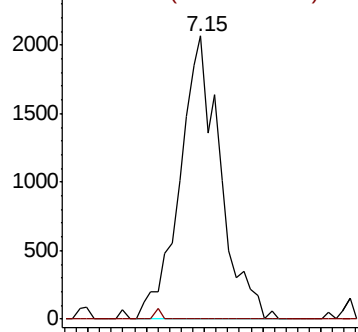
77 100

97 0.0 11.6 34.7#

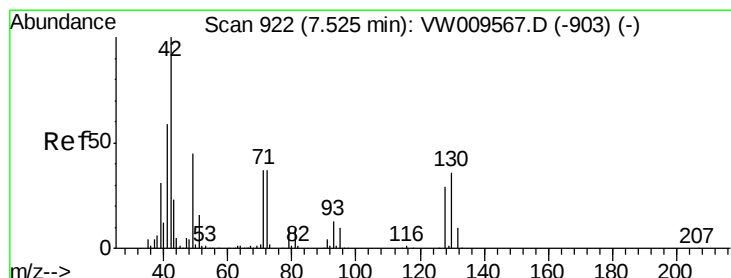
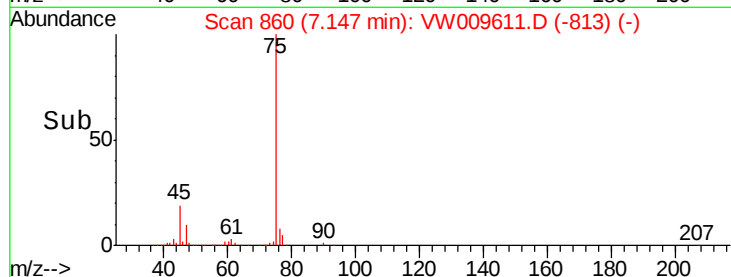


Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW



Time-->



#29

Tetrahydrofuran

Concen: 3.617 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW009611.D

Acq: 31 Mar 2019 15:27

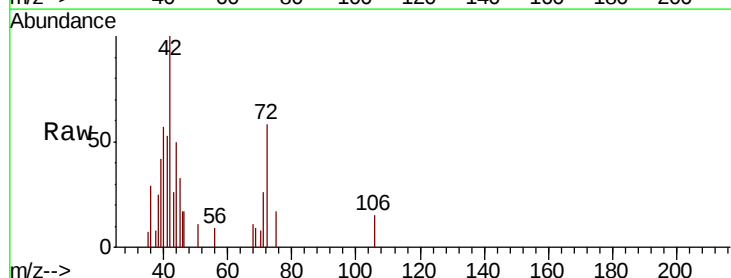
Tgt Ion: 42 Resp: 2013

Ion Ratio Lower Upper

42 100

72 40.4 32.4 48.6

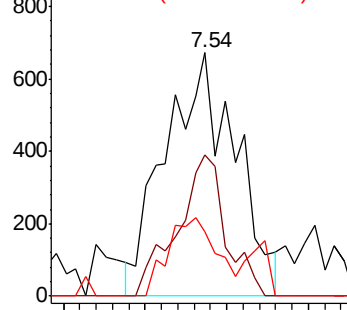
71 22.6 30.1 45.1#



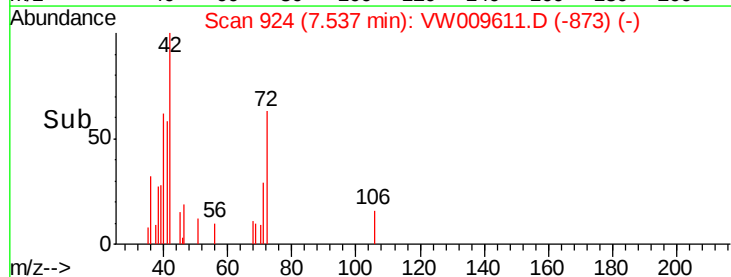
Abundance Ion 42.00 (41.70 to 42.70): VW

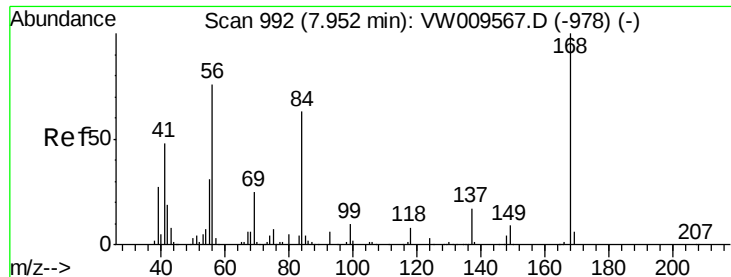
Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW



Time-->

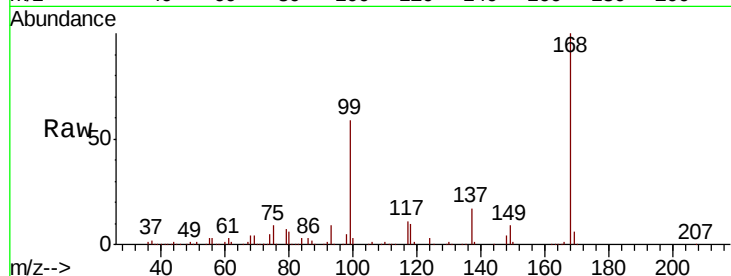




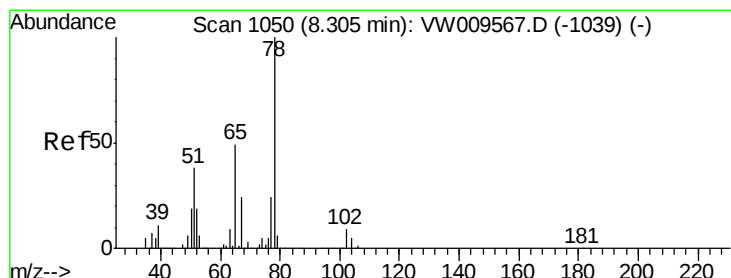
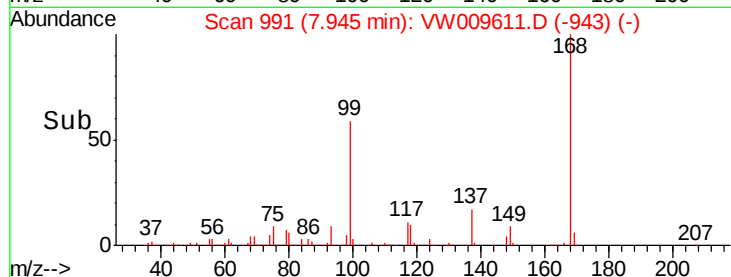
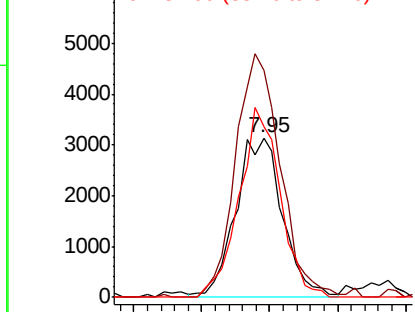
#31
Cyclohexane
Concen: 1.596 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW009611.D
Acq: 31 Mar 2019 15:27

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 56 Resp: 7573
Ion Ratio Lower Upper
56 100
69 145.3 26.1 39.1#
84 108.9 68.6 103.0#

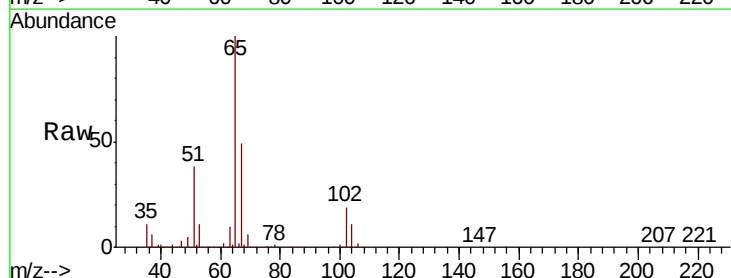


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

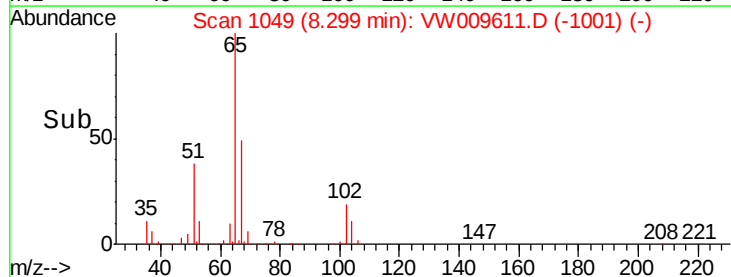
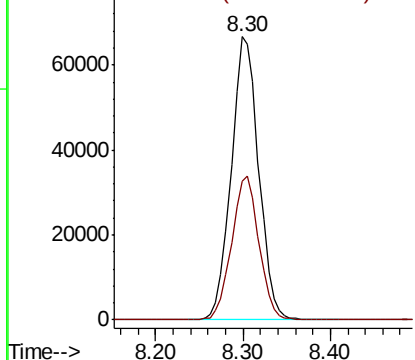


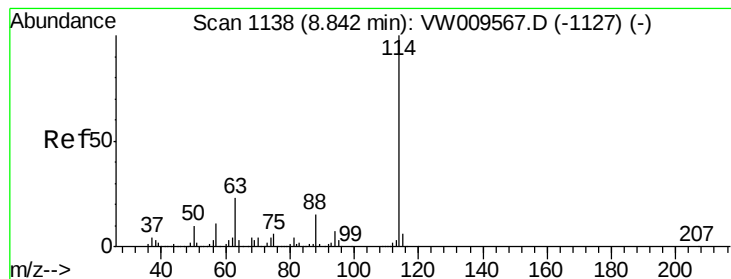
#33
1,2-Dichloroethane-d4
Concen: 50.380 ug/l
RT: 8.30 min Scan# 1049
Delta R.T. -0.01 min
Lab File: VW009611.D
Acq: 31 Mar 2019 15:27

Tgt Ion: 65 Resp: 145343
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: VW009611.D

Acq: 31 Mar 2019 15:27

Instrument :

MSVOA_W

ClientSampled :

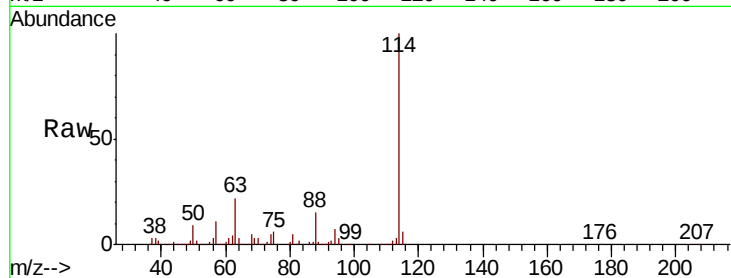
Tot Ion:114 Resp: 416358

Ion Ratio Lower Upper

114 100

63 22.4 0.0 42.2

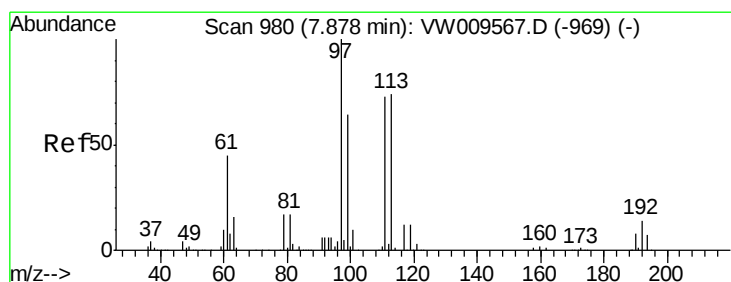
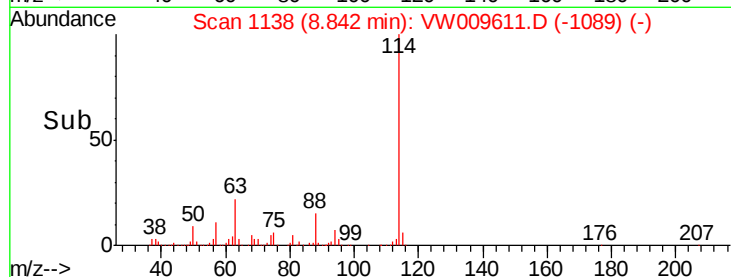
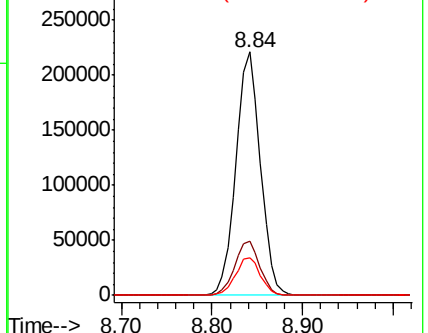
88 15.5 0.0 30.8



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: 44.847 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.00 min

Lab File: VW009611.D

Acq: 31 Mar 2019 15:27

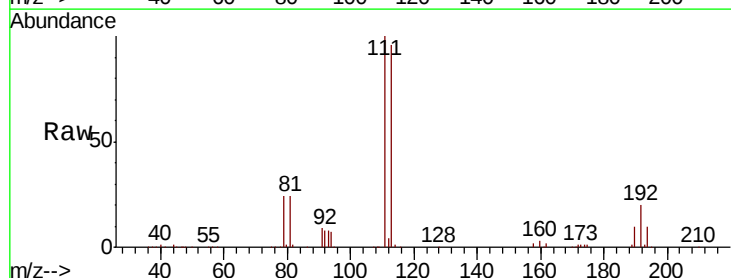
Tgt Ion:113 Resp: 117277

Ion Ratio Lower Upper

113 100

111 104.2 82.6 124.0

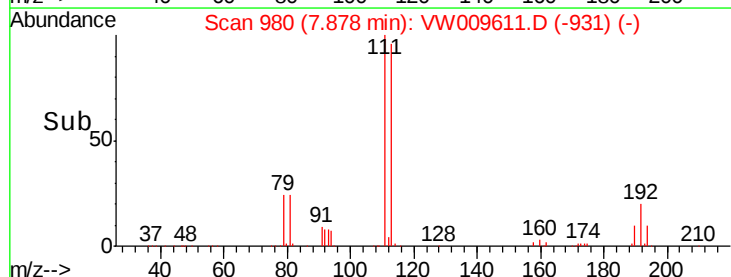
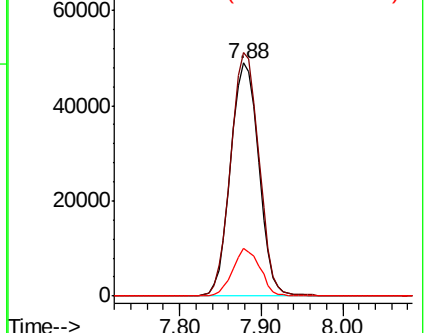
192 19.7 16.4 24.6

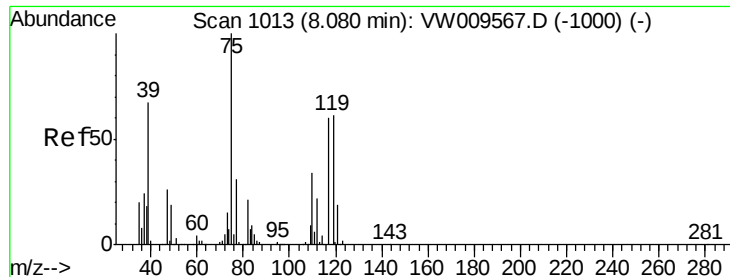


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

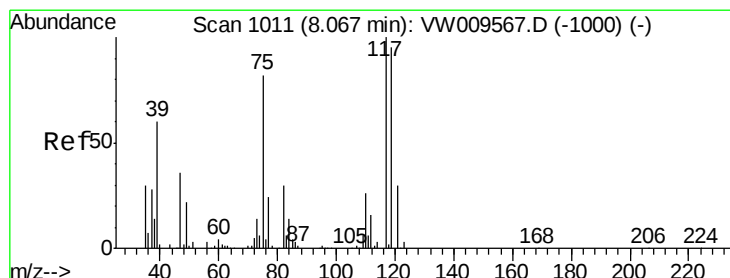
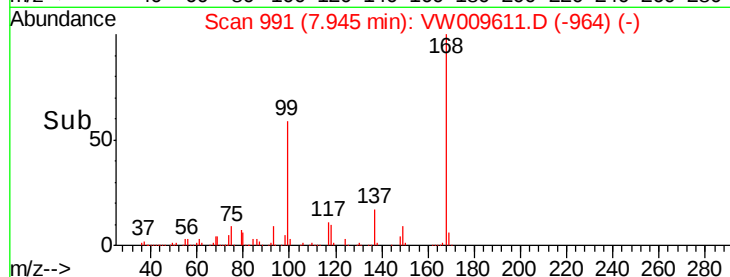
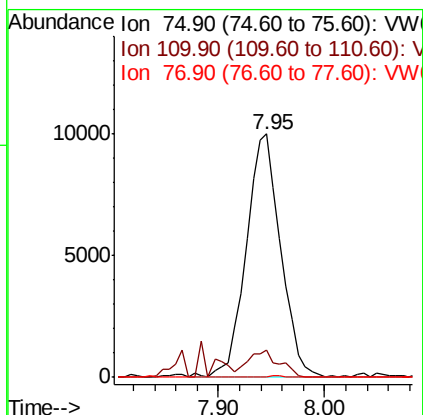
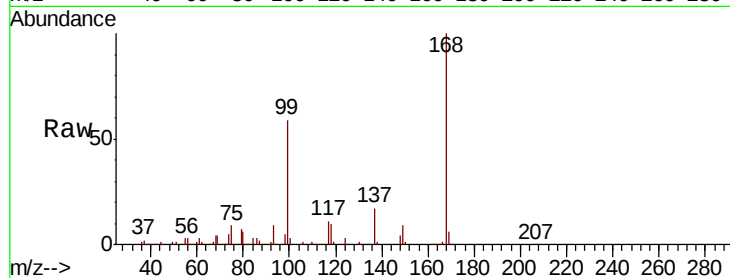




#36
 1,1-Dichloropropene
 Concen: 5.277 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW009611.D
 Acq: 31 Mar 2019 15:27

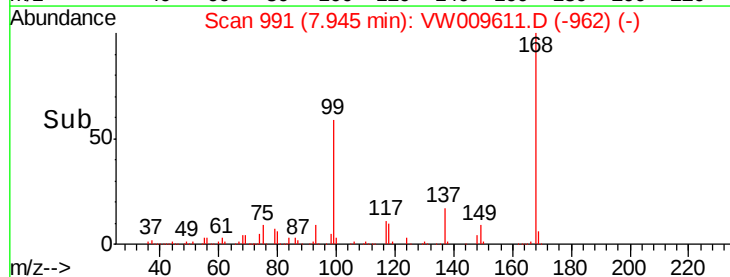
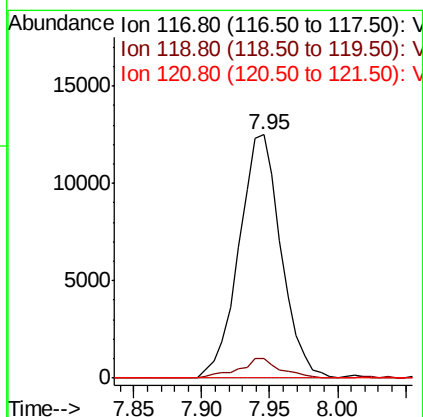
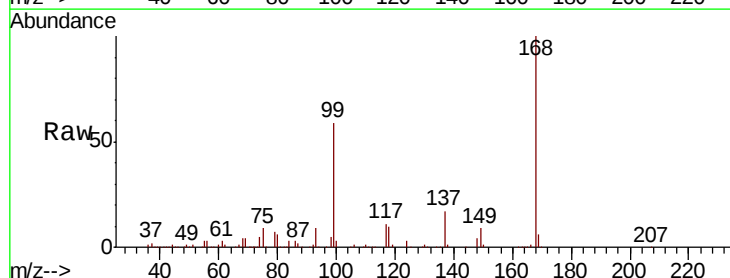
Instrument :
 MSVOA_W
 ClientSampled :

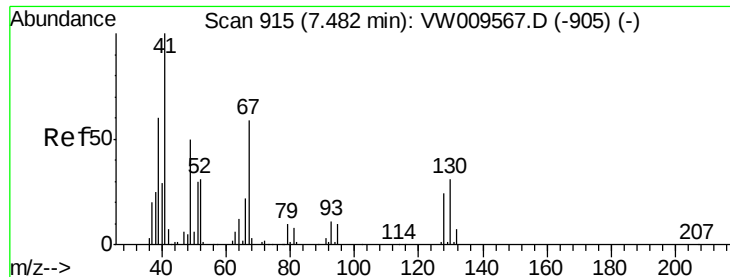
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.0	16.8	50.4#
77	0.3	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.126 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW009611.D
 Acq: 31 Mar 2019 15:27

Tgt Ion	Ratio	Lower	Upper
117	100		
119	8.0	75.4	113.0#
121	0.0	24.9	37.3#

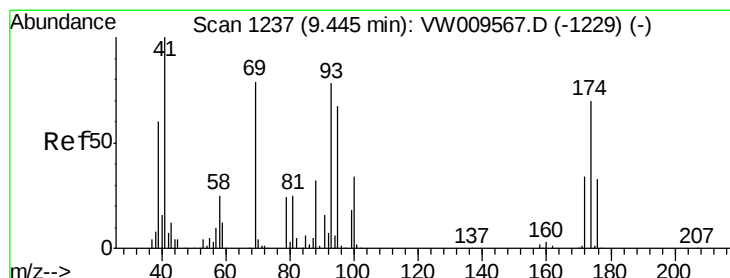
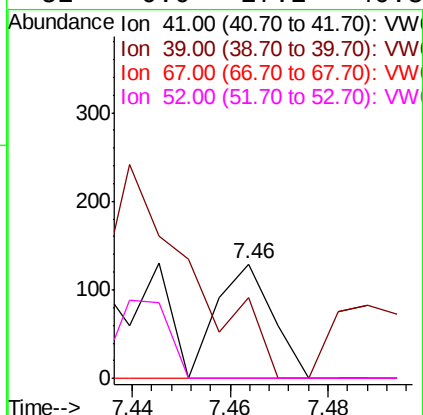
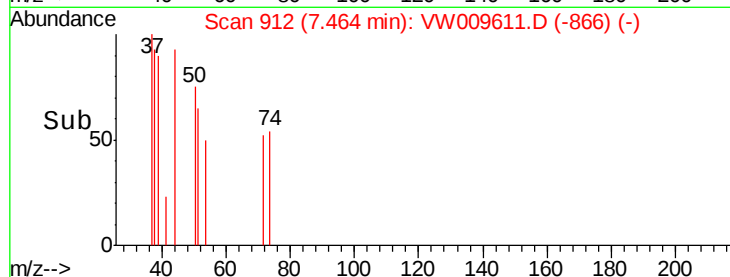
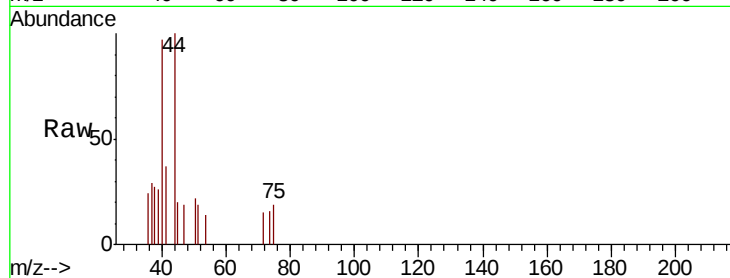




#41
Methacrylonitrile
Concen: 3.992 ug/l
RT: 7.46 min Scan# 912
Delta R.T. -0.02 min
Lab File: VW009611.D
Acq: 31 Mar 2019 15:27

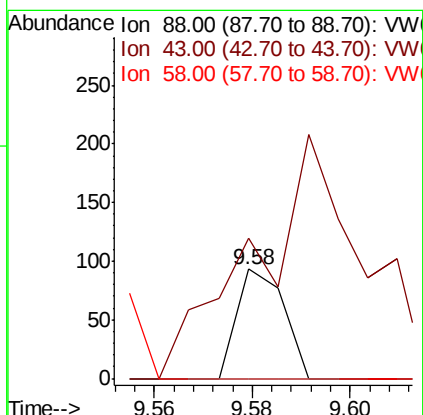
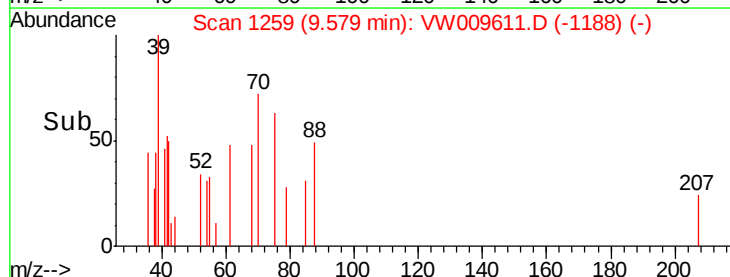
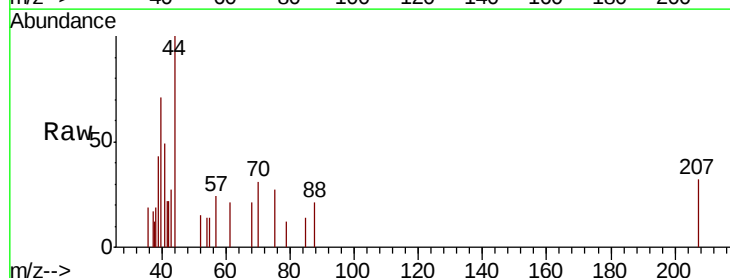
Instrument :
MSVOA_W
ClientSampled :

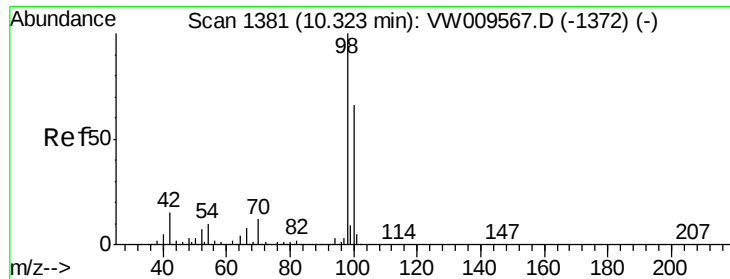
Tot Ion:	41	Resp:	102
Ion	Ratio	Lower	Upper
41	100		
39	0.0	52.5	78.7#
67	0.0	56.6	84.8#
52	0.0	27.2	40.8#



#49
1,4-Dioxane
Concen: 2.574 ug/l
RT: 9.58 min Scan# 1259
Delta R.T. 0.13 min
Lab File: VW009611.D
Acq: 31 Mar 2019 15:27

Tgt Ion:	88	Resp:	62
Ion	Ratio	Lower	Upper
88	100		
43	504.8	29.7	44.5#
58	0.0	58.1	87.1#





#50

Toluene-d8

Concen: 41.584 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW009611.D

Acq: 31 Mar 2019 15:27

Instrument :

MSVOA_W

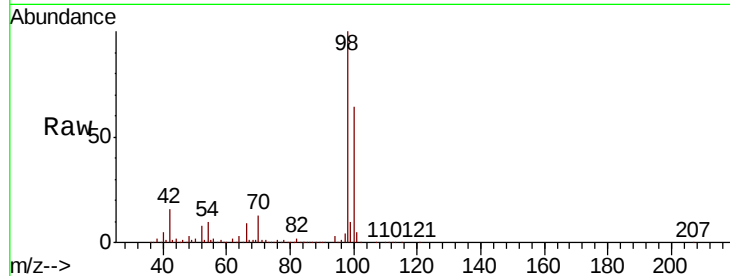
ClientSampleId :

Tot Ion: 98 Resp: 401931

Ion Ratio Lower Upper

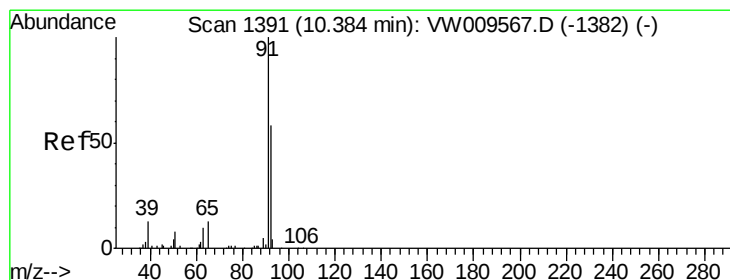
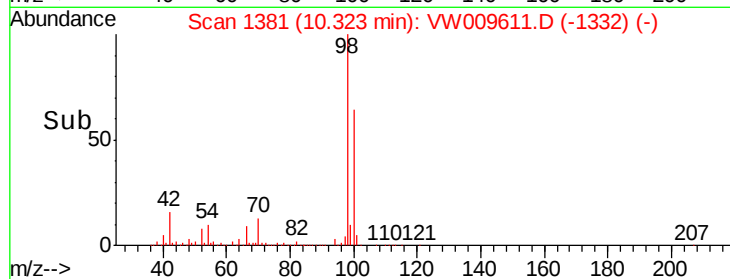
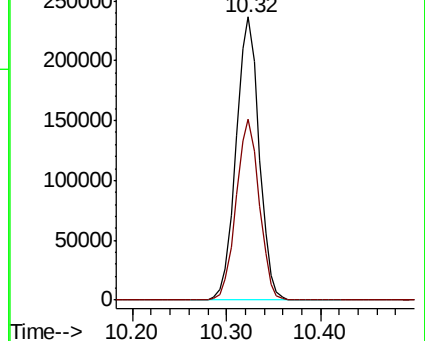
98 100

100 63.8 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#52

Toluene

Concen: 2.029 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW009611.D

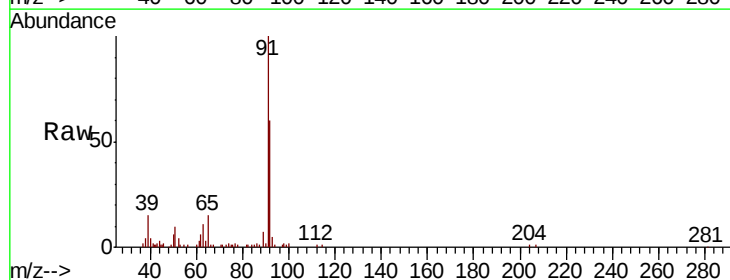
Acq: 31 Mar 2019 15:27

Tgt Ion: 92 Resp: 14821

Ion Ratio Lower Upper

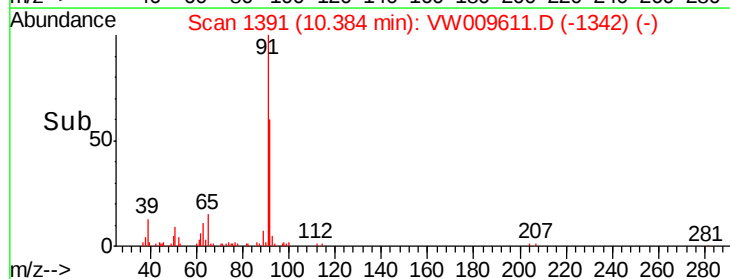
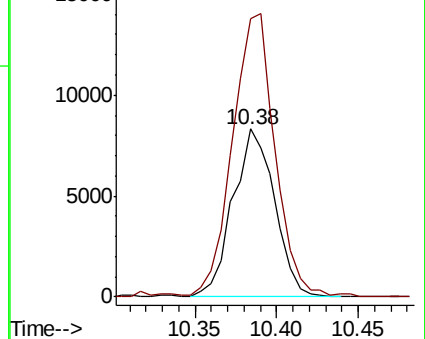
92 100

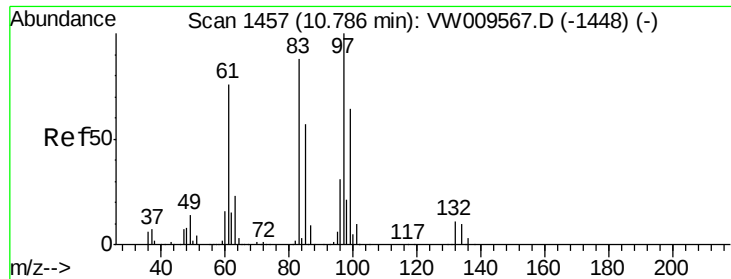
91 171.8 140.1 210.1



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW

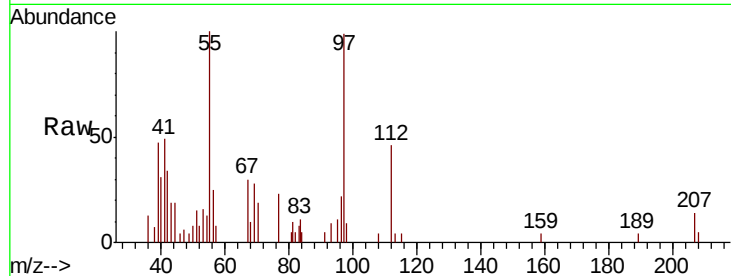




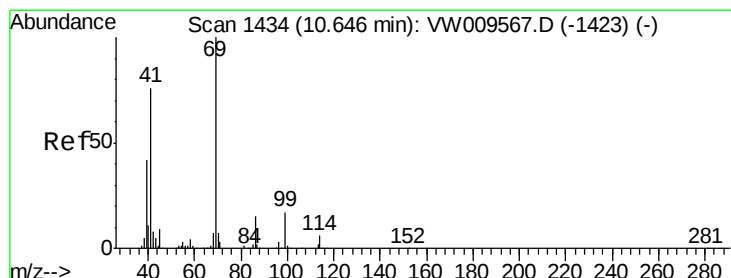
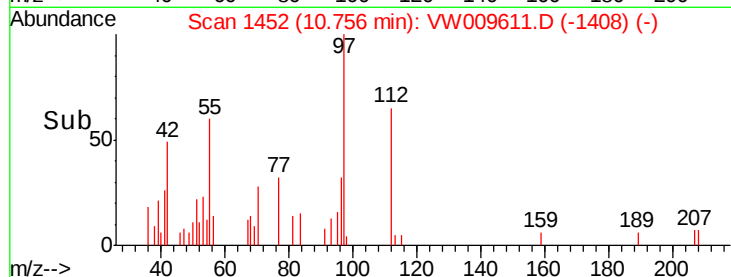
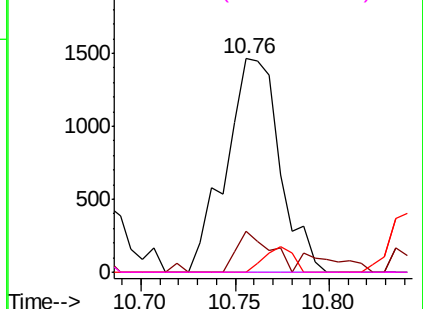
#55
 1,1,2-Trichloroethane
 Concen: 1.326 ug/l
 RT: 10.76 min Scan# 1452
 Delta R.T. -0.03 min
 Lab File: VW009611.D
 Acq: 31 Mar 2019 15:27

Instrument :
 MSVOA_W
 ClientSampled :

Tot Ion:	97	Resp:	2900
Ion	Ratio	Lower	Upper
97	100		
83	19.3	66.3	99.5#
85	0.0	41.4	62.2#
99	0.0	48.7	73.1#

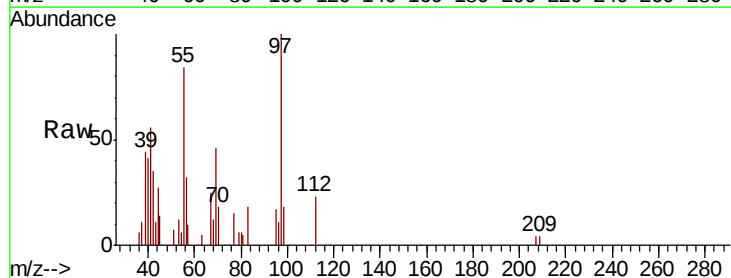


Abundance Ion 96.90 (96.60 to 97.60): VW
 Ion 82.90 (82.60 to 83.60): VW
 Ion 84.90 (84.60 to 85.60): VW
 Ion 98.90 (98.60 to 99.60): VW

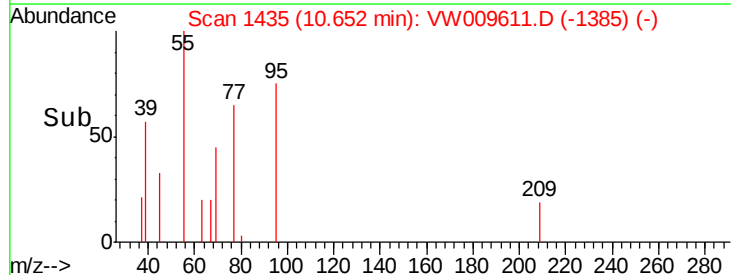
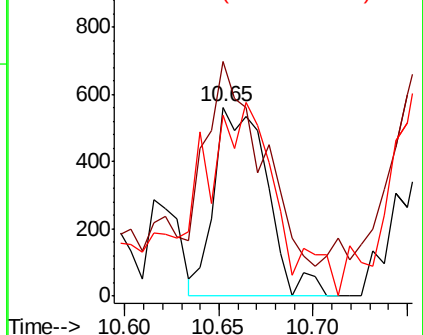


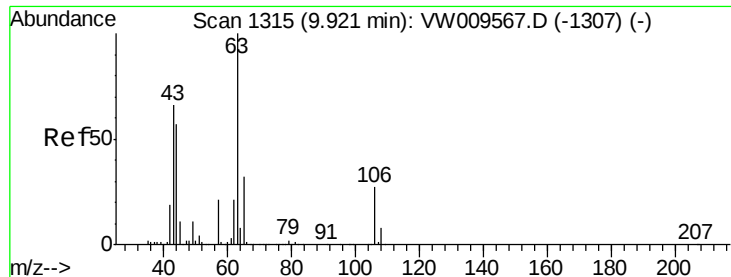
#56
 Ethyl methacrylate
 Concen: 4.129 ug/l
 RT: 10.65 min Scan# 1435
 Delta R.T. 0.01 min
 Lab File: VW009611.D
 Acq: 31 Mar 2019 15:27

Tgt Ion:	69	Resp:	1089
Ion	Ratio	Lower	Upper
69	100		
41	126.8	59.3	88.9#
39	156.7	36.2	54.2#



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

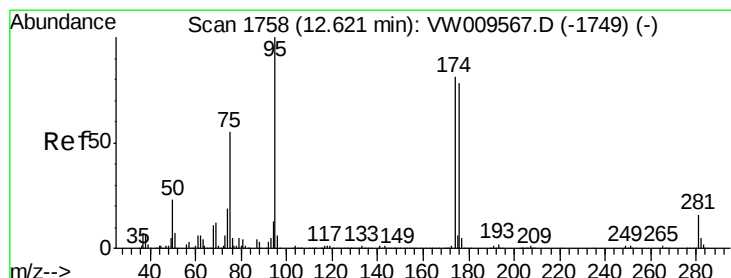
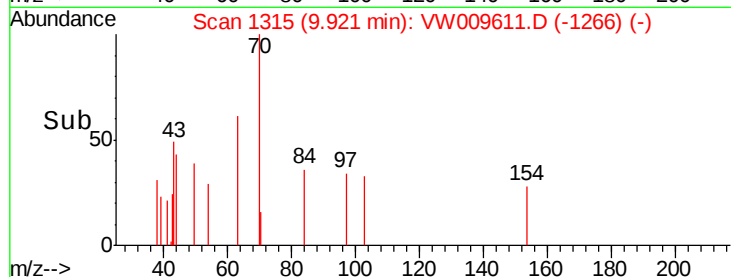
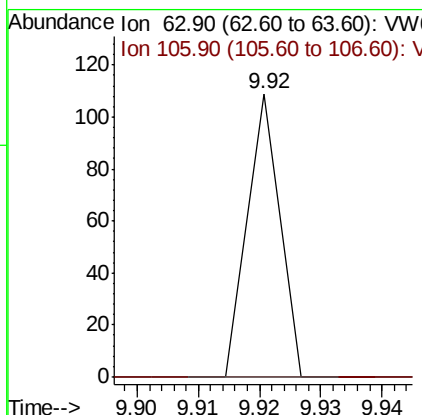
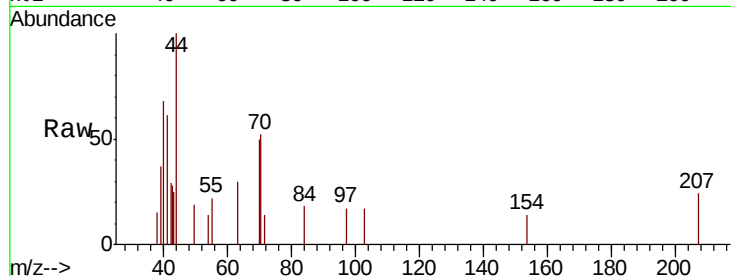




#58
 2-Chloroethyl Vinyl ether
 Concen: 17.042 ug/l
 RT: 9.92 min Scan# 1315
 Delta R.T. 0.00 min
 Lab File: VW009611.D
 Acq: 31 Mar 2019 15:27

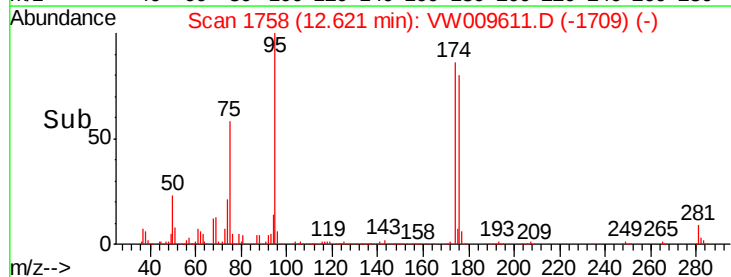
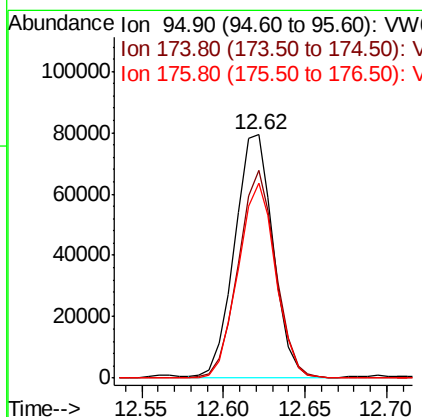
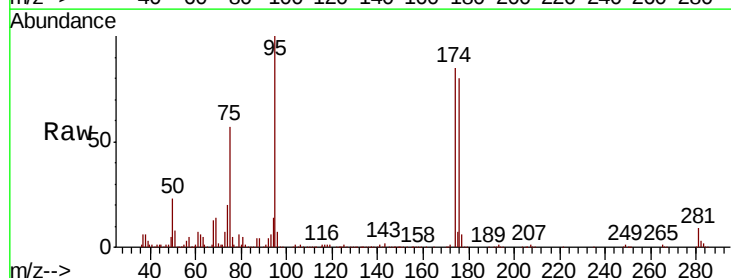
Instrument :
 MSVOA_W
 ClientSampleId :

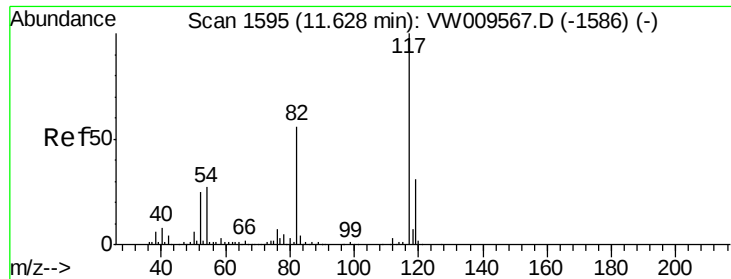
Tot Ion: 63 Resp: 40
 Ion Ratio Lower Upper
 63 100
 106 0.0 22.9 34.3#



#62
 4-Bromofluorobenzene
 Concen: 35.857 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.00 min
 Lab File: VW009611.D
 Acq: 31 Mar 2019 15:27

Tgt Ion: 95 Resp: 129291
 Ion Ratio Lower Upper
 95 100
 174 83.6 0.0 168.4
 176 79.1 0.0 161.6

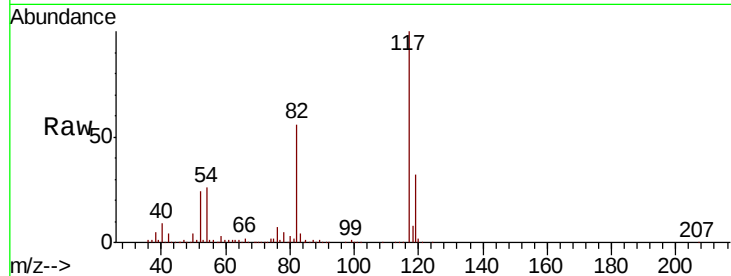




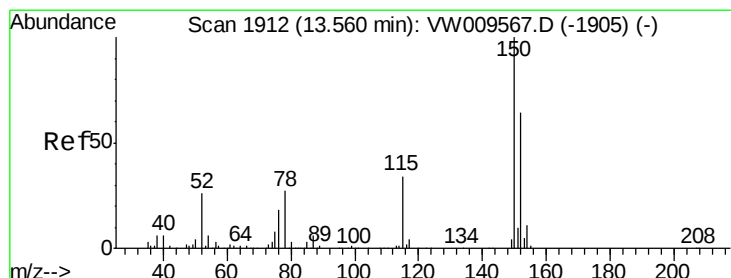
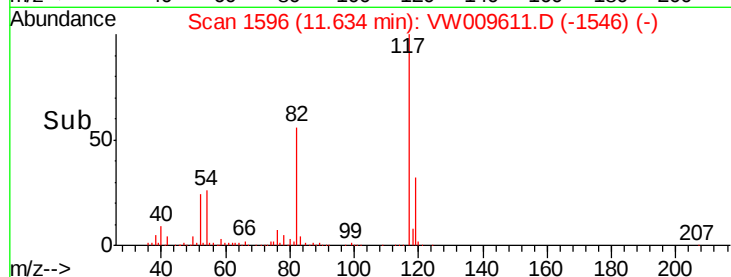
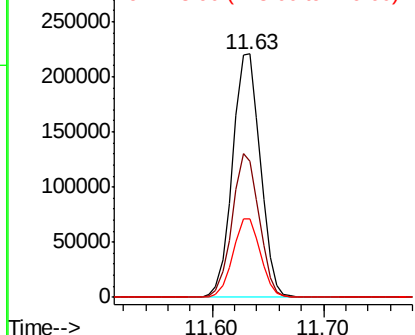
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.01 min
Lab File: VW009611.D
Acq: 31 Mar 2019 15:27

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:117 Resp: 381016
Ion Ratio Lower Upper
117 100
82 55.6 43.6 65.4
119 32.5 26.0 39.0

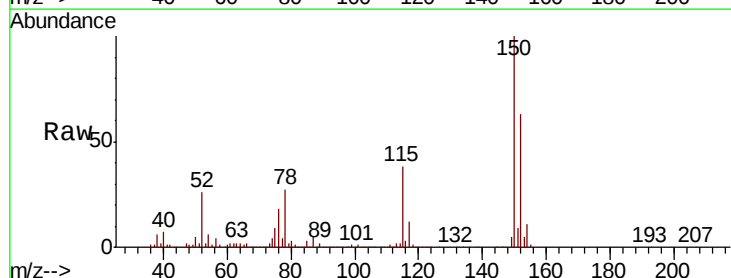


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

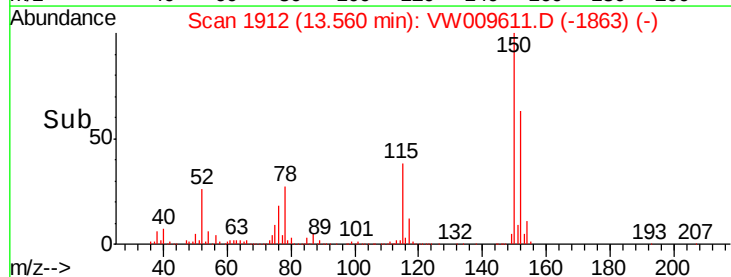
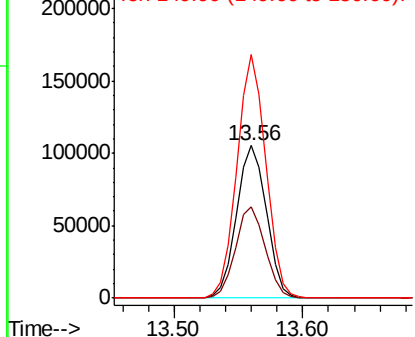


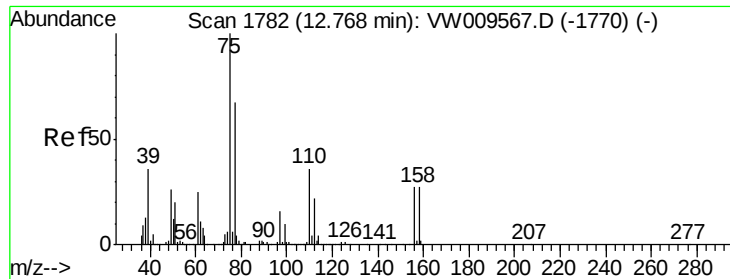
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW009611.D
Acq: 31 Mar 2019 15:27

Tgt Ion:152 Resp: 168759
Ion Ratio Lower Upper
152 100
115 60.0 29.6 88.8
150 154.9 0.0 349.2



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

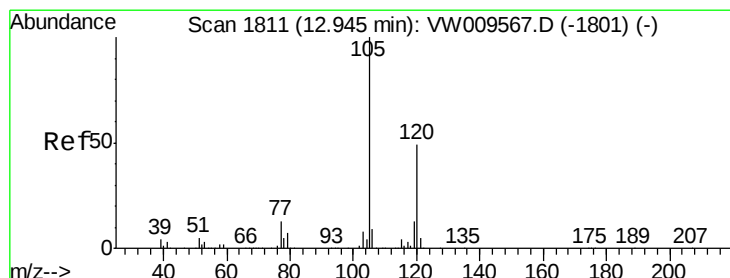
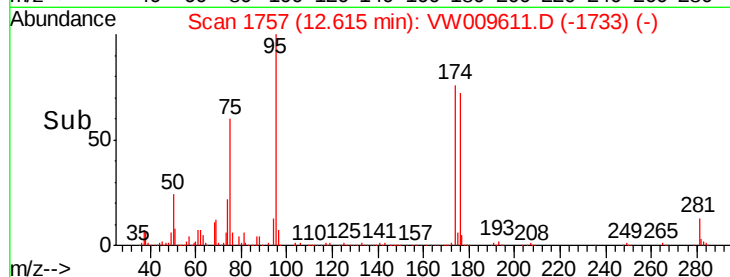
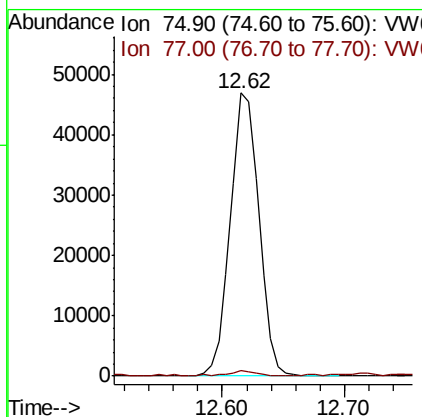
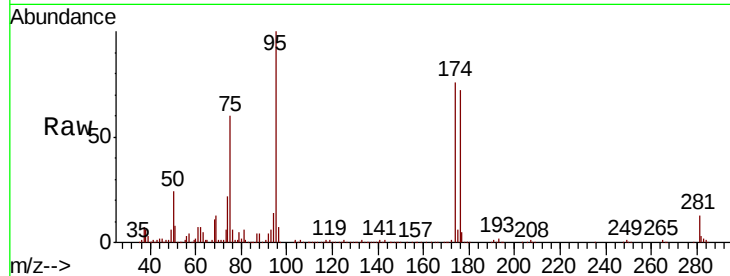




#76
 1,2,3-Trichloropropane
 Concen: 47.884 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW009611.D
 Acq: 31 Mar 2019 15:27

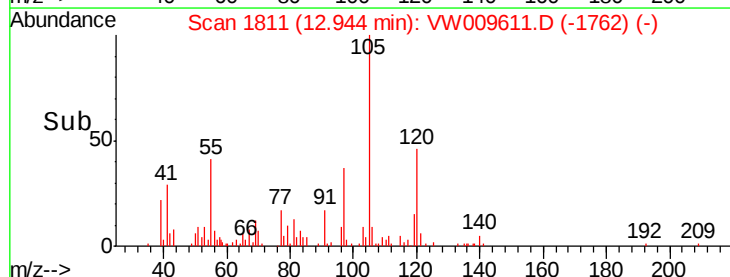
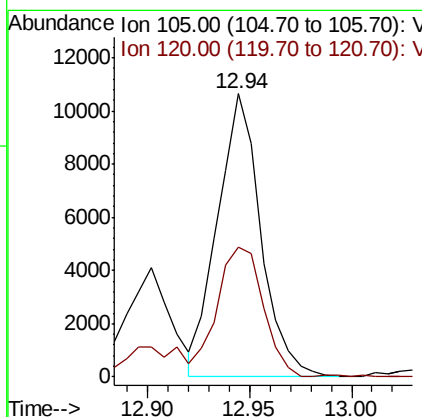
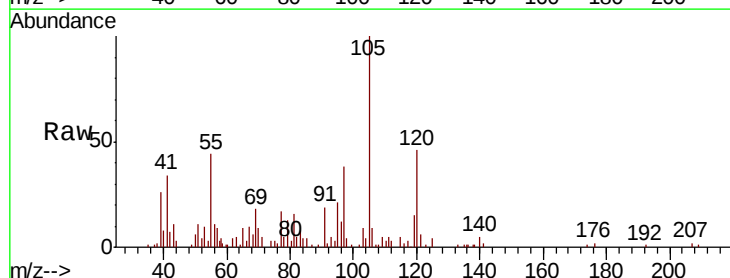
Instrument :
 MSVOA_W
 ClientSampleId :

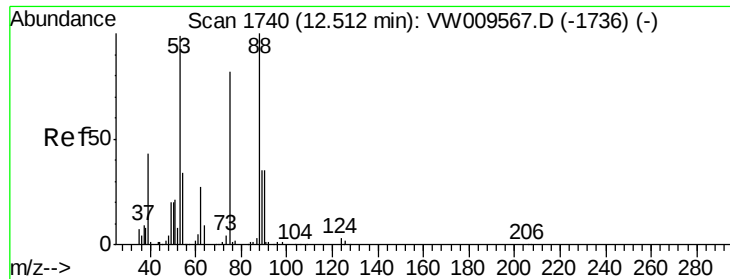
Tot Ion: 75 Resp: 75992
 Ion Ratio Lower Upper
 75 100
 77 1.9 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 1.580 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. -0.00 min
 Lab File: VW009611.D
 Acq: 31 Mar 2019 15:27

Tgt Ion: 105 Resp: 15630
 Ion Ratio Lower Upper
 105 100
 120 48.8 24.6 74.0

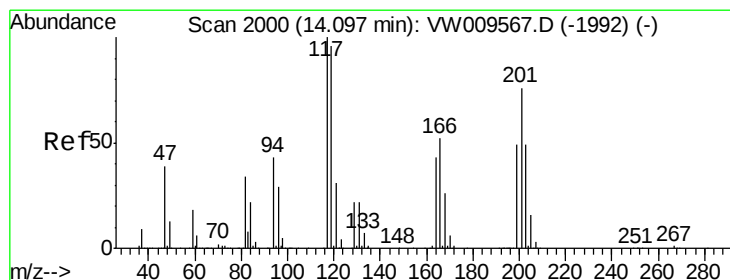
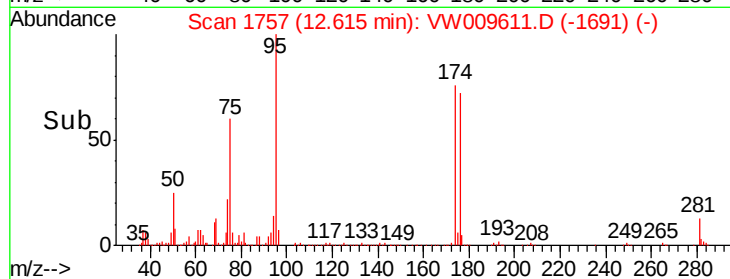
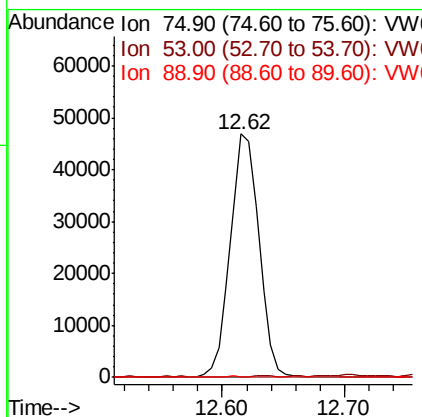
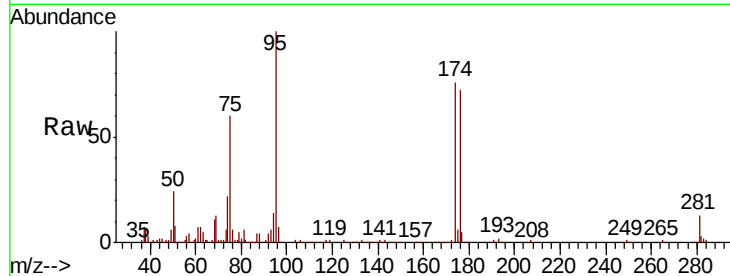




#81
trans-1,4-Dichloro-2-butene
Concen: 111.354 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.10 min
Lab File: VW009611.D
Acq: 31 Mar 2019 15:27

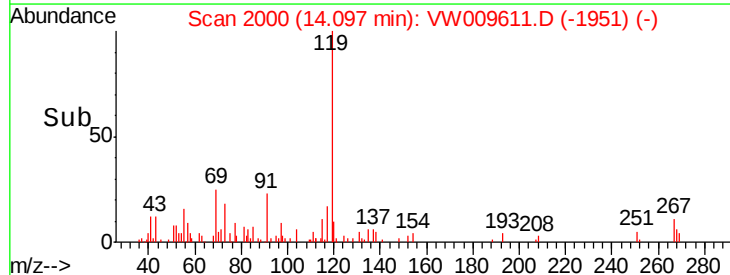
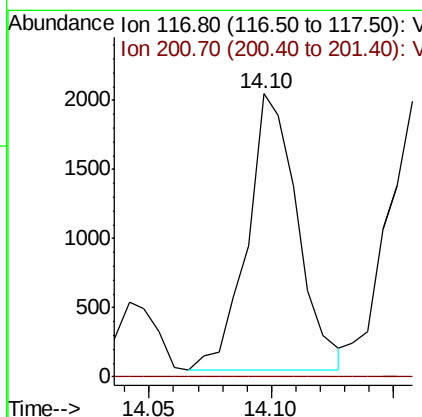
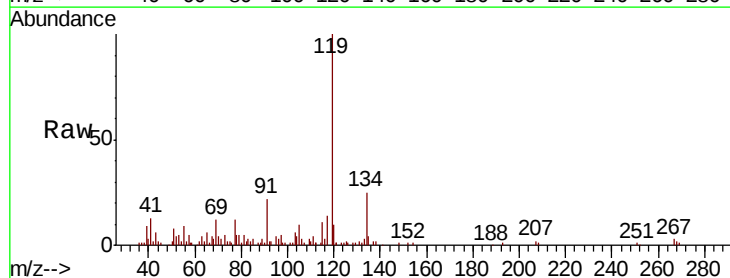
Instrument :
MSVOA_W
ClientSampled :

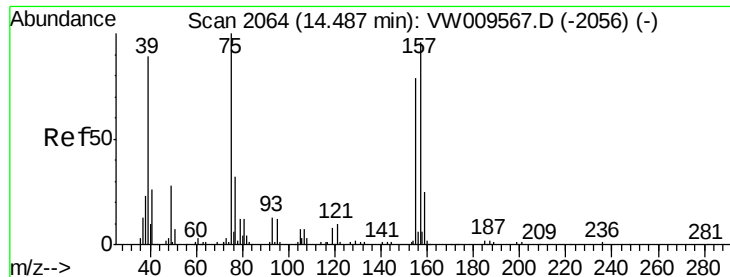
Tot Ion: 75 Resp: 75992
Ion Ratio Lower Upper
75 100
53 0.0 86.7 130.1#
89 0.2 36.4 54.6#



#90
Hexachloroethane
Concen: 1.351 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. -0.00 min
Lab File: VW009611.D
Acq: 31 Mar 2019 15:27

Tgt Ion: 117 Resp: 2858
Ion Ratio Lower Upper
117 100
201 0.0 38.2 114.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.011 ug/l

RT: 14.50 min Scan# 2066

Delta R.T. 0.01 min

Lab File: VW009611.D

Acq: 31 Mar 2019 15:27

Instrument :

MSVOA_W

ClientSampled :

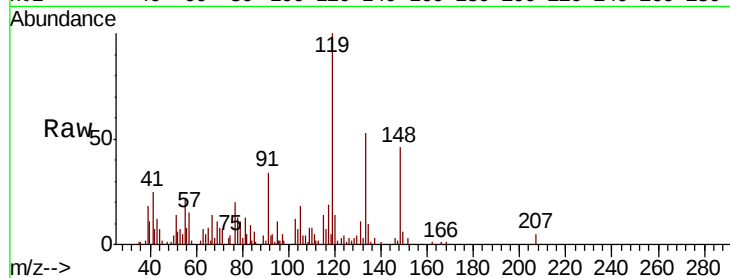
Tot Ion: 75 Resp: 410

Ion Ratio Lower Upper

75 100

155 5.9 39.3 117.8#

157 0.0 49.5 148.5#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

400

300

200

100

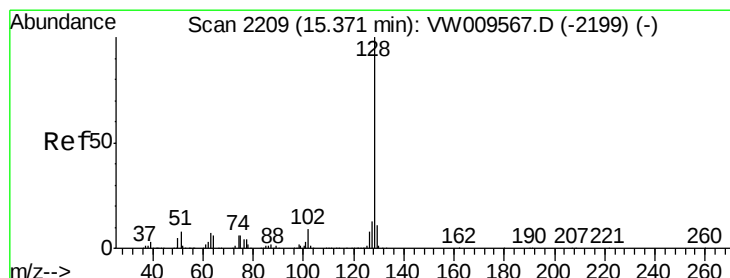
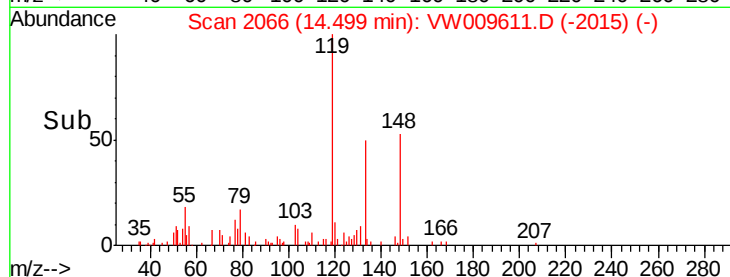
0

14.45

14.50

14.55

Time-->



#95

Naphthalene

Concen: 3.353 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW009611.D

Acq: 31 Mar 2019 15:27

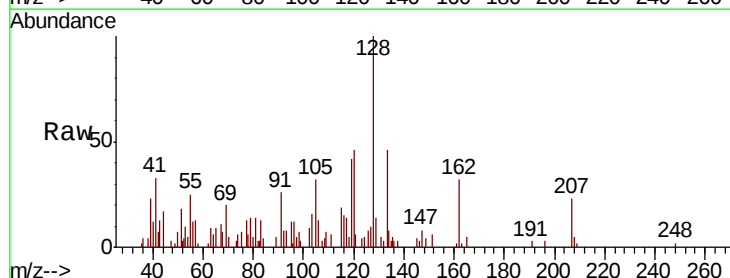
Tgt Ion: 128 Resp: 4363

Ion Ratio Lower Upper

128 100

127 6.9 10.8 16.2#

129 9.7 8.7 13.1



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

3000

2000

1000

0

15.25

15.30

15.35

15.40

Time-->

