

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW090119\
 Data File : VW012446.D
 Acq On : 01 Sep 2019 14:23
 Operator : SY/VA
 Sample : K4517-08RE
 Misc : 4.74G/5ML/MSVOA_W/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 T4-S-D2-(0)RE

Quant Time: Sep 02 07:18:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 26 07:18:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	7986	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	11497	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	7121	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	1064	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	5081	53.52	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	107.04%	
35) Dibromofluoromethane	7.89	113	4297	62.61	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	125.22%	
50) Toluene-d8	10.32	98	12735	45.77	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	91.54%	
62) 4-Bromofluorobenzene	12.62	95	1614	16.45	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	32.90%	

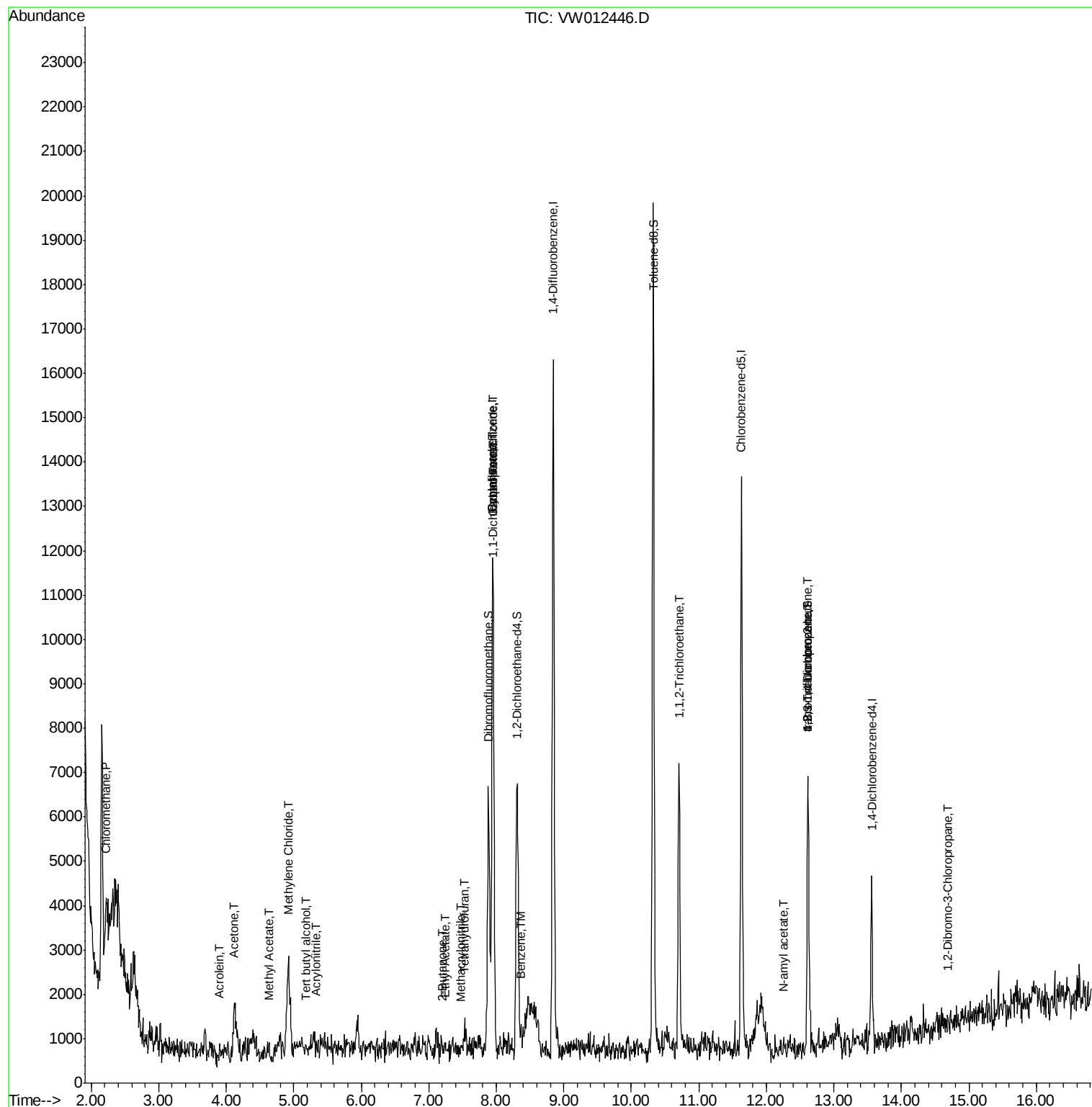
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.22	50	228	2.993	ug/l	91
11) Tert butyl alcohol	5.18	59	44	7.702	ug/l #	71
13) Acrolein	3.91	56	41	7.624	ug/l #	15
15) Acrylonitrile	5.33	53	44	1.997	ug/l #	53
16) Acetone	4.12	43	2310	95.191	ug/l	96
18) Methyl Acetate	4.63	43	64	1.065	ug/l #	74
20) Methylene Chloride	4.93	84	1190	12.972	ug/l #	56
25) 2-Butanone	7.20	43	97	2.942	ug/l #	56
29) Tetrahydrofuran	7.54	42	290	14.658	ug/l #	55
31) Cyclohexane	7.95	56	305	1.784	ug/l #	15
36) 1,1-Dichloropropene	7.96	75	826	6.952	ug/l #	49
37) Ethyl Acetate	7.24	43	75	1.152	ug/l #	73
38) Carbon Tetrachloride	7.96	117	739	7.187	ug/l #	12
40) Benzene	8.37	78	551	1.698	ug/l #	51
41) Methacrylonitrile	7.46	41	86	2.248	ug/l #	34
55) 1,1,2-Trichloroethane	10.71	97	145	2.638	ug/l #	14
74) N-amyl acetate	12.25	43	134	5.563	ug/l #	56
76) 1,2,3-Trichloropropane	12.62	75	950	91.676	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	950	201.003	ug/l #	6
92) 1,2-Dibromo-3-Chloropropan	14.68	75	20	8.117	ug/l #	5

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
Quant Title : SW846 8260
QLast Update : Mon Aug 26 07:18:31 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: VW012446.D

Acq: 01 Sep 2019 14:23

Instrument :

MSVOA_W

ClientSampleId :

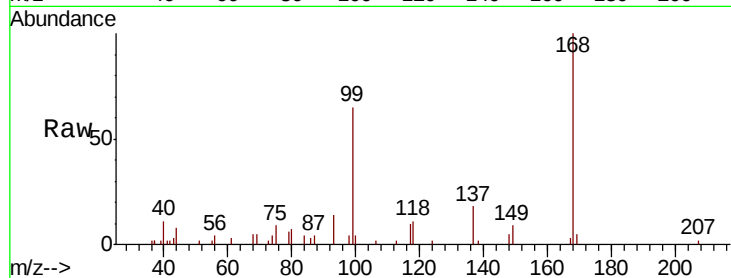
T4-S-D2-(0)RE

Tgt Ion:168 Resp: 7986

Ion Ratio Lower Upper

168 100

99 65.2 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

3000

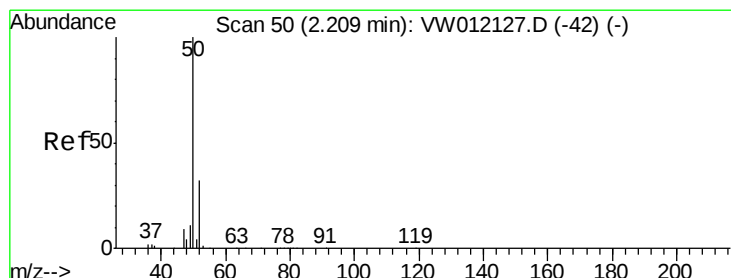
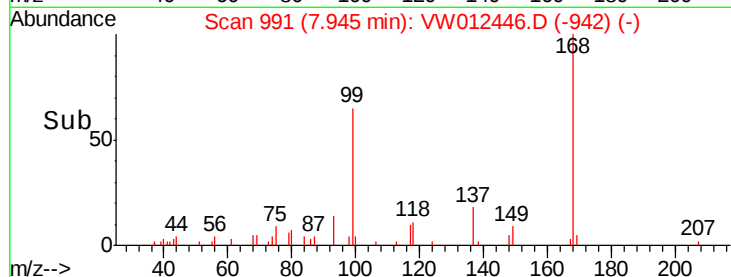
2000

1000

0

7.85 7.90 7.95 8.00 8.05

Time-->



#3

Chloromethane

Concen: 2.993 ug/l

RT: 2.22 min Scan# 52

Delta R.T. 0.01 min

Lab File: VW012446.D

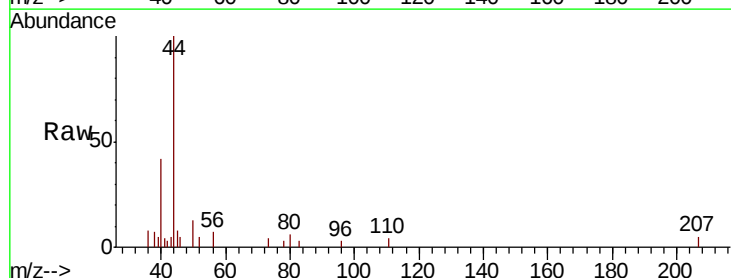
Acq: 01 Sep 2019 14:23

Tgt Ion: 50 Resp: 228

Ion Ratio Lower Upper

50 100

52 36.9 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW

2.22

250

200

150

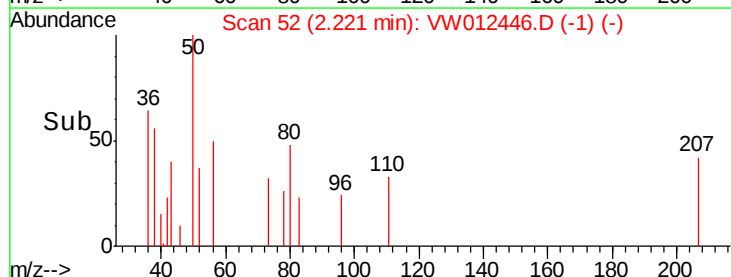
100

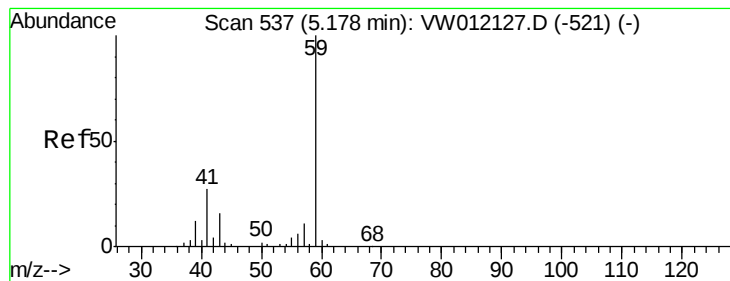
50

0

2.18 2.20 2.22 2.24

Time-->





#11

Tert butyl alcohol

Concen: 7.702 ug/l

RT: 5.18 min Scan# 537

Delta R.T. -0.00 min

Lab File: VW012446.D

Acq: 01 Sep 2019 14:23

Instrument :

MSVOA_W

ClientSampleId :

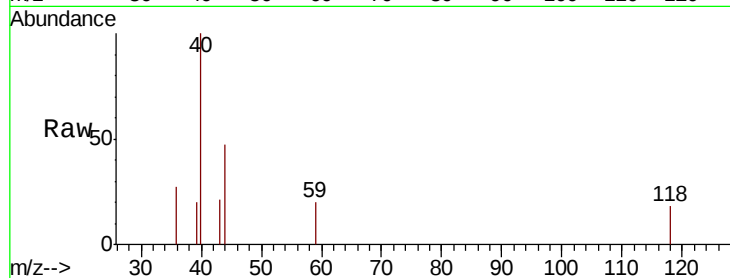
T4-S-D2-(0)RE

Tgt Ion: 59 Resp: 44

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.18

60

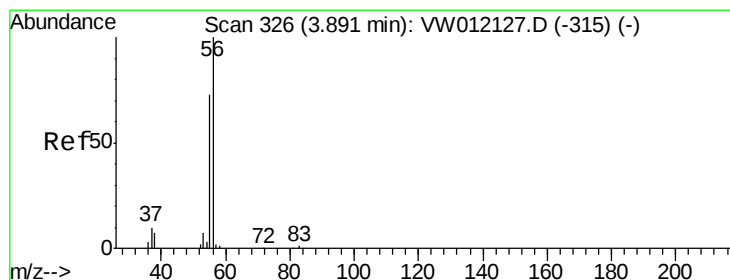
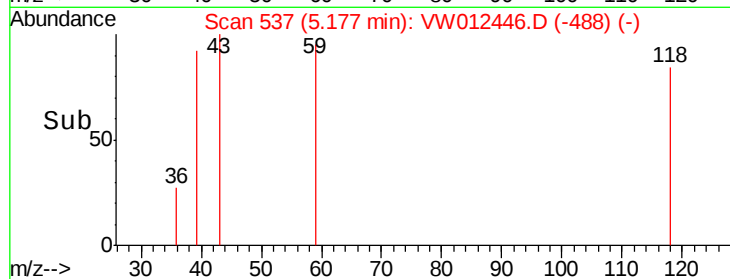
40

20

0

Time-->

5.16 5.18 5.20



#13

Acrolein

Concen: 7.624 ug/l

RT: 3.91 min Scan# 329

Delta R.T. 0.02 min

Lab File: VW012446.D

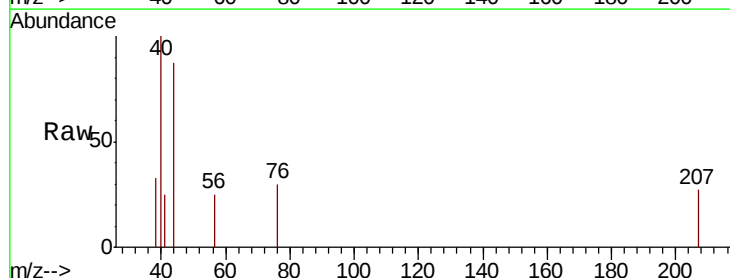
Acq: 01 Sep 2019 14:23

Tgt Ion: 56 Resp: 41

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW

3.91

60

50

40

30

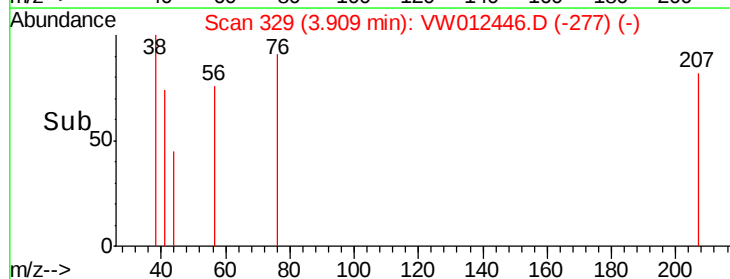
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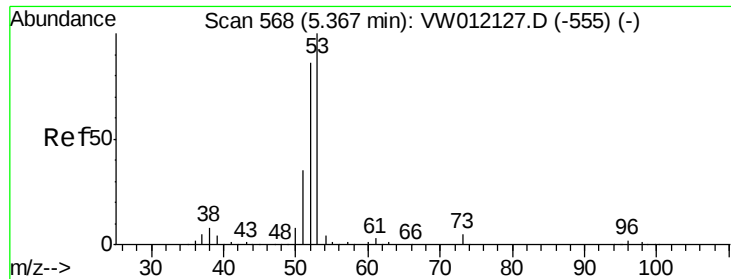
10

0

Time-->

3.90 3.92





#15

Acrylonitrile

Concen: 1.997 ug/l

RT: 5.33 min Scan# 562

Delta R.T. -0.04 min

Lab File: VW012446.D

Acq: 01 Sep 2019 14:23

Instrument :

MSVOA_W

ClientSampleId :

T4-S-D2-(0)RE

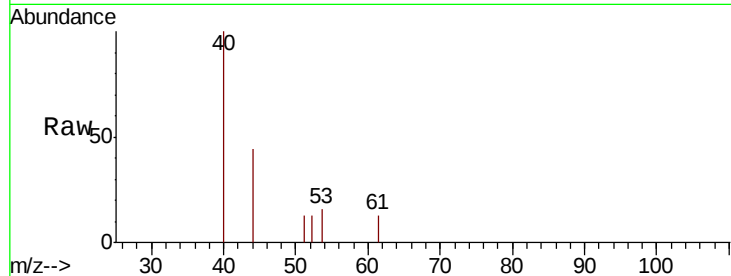
Tgt Ion: 53 Resp: 44

Ion Ratio Lower Upper

53 100

52 109.1 66.7 100.1#

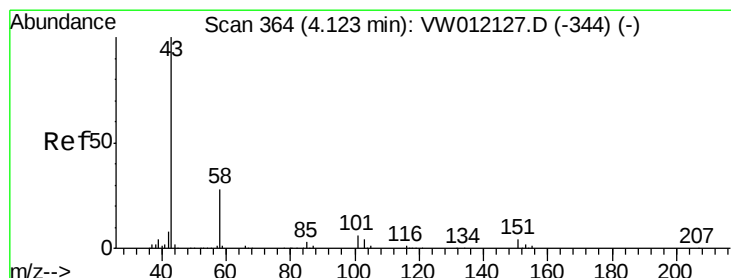
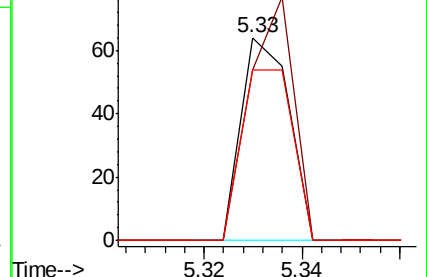
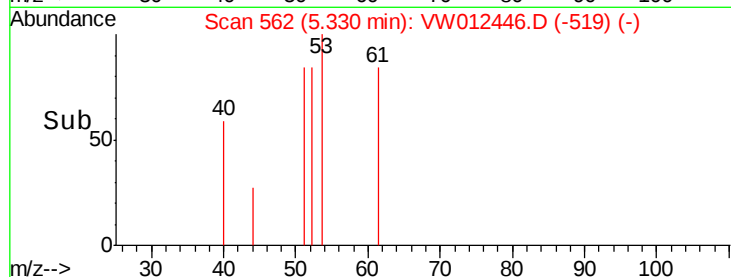
51 90.9 30.1 45.1#



Abundance Ion 53.00 (52.70 to 53.70): VW

Ion 52.00 (51.70 to 52.70): VW

Ion 51.00 (50.70 to 51.70): VW



#16

Acetone

Concen: 95.191 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.00 min

Lab File: VW012446.D

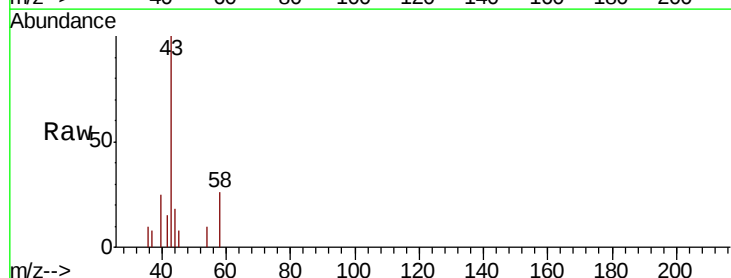
Acq: 01 Sep 2019 14:23

Tgt Ion: 43 Resp: 2310

Ion Ratio Lower Upper

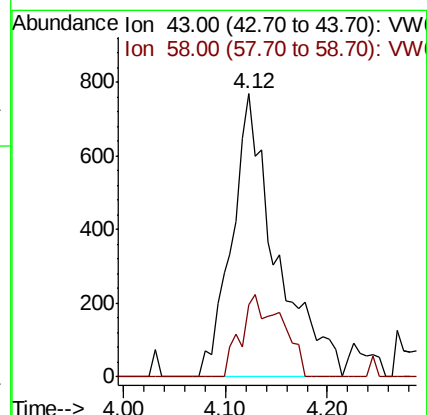
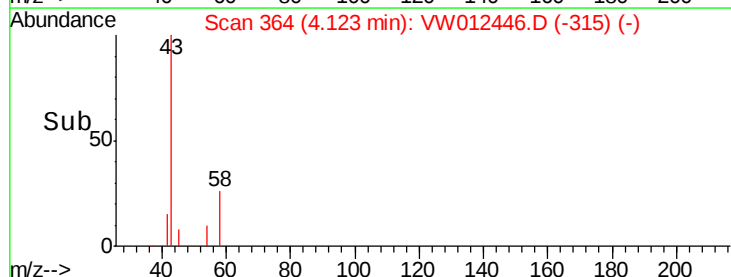
43 100

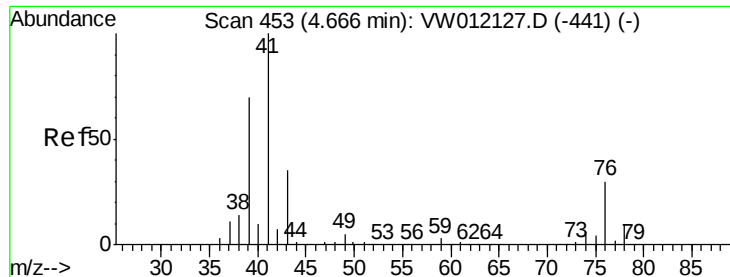
58 25.7 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

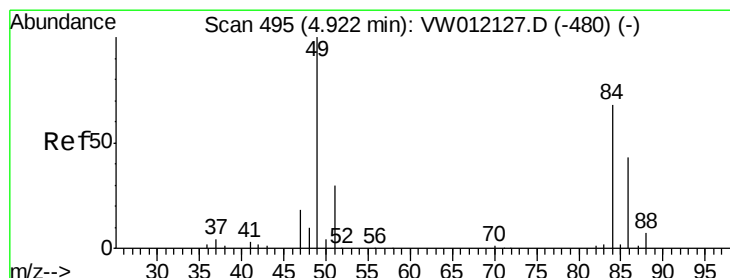
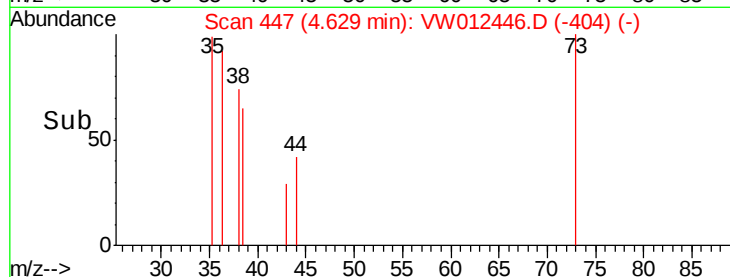
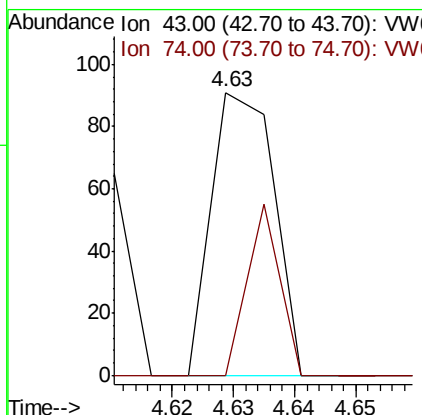
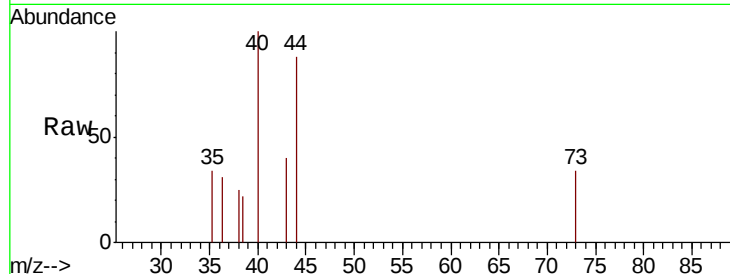




#18
Methyl Acetate
Concen: 1.065 ug/l
RT: 4.63 min Scan# 447
Delta R.T. -0.04 min
Lab File: VW012446.D
Acq: 01 Sep 2019 14:23

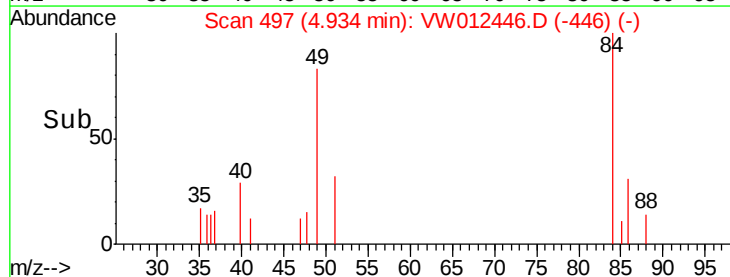
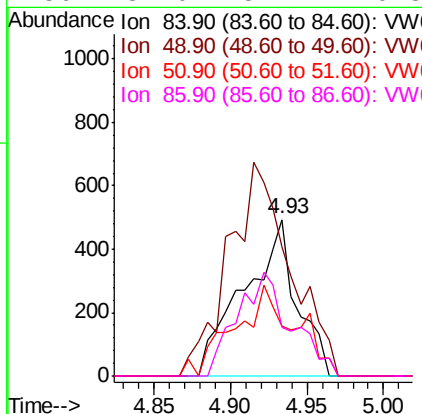
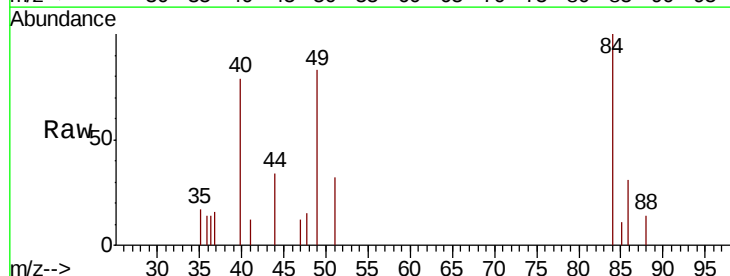
Instrument :
MSVOA_W
ClientSampleId :
T4-S-D2-(0)RE

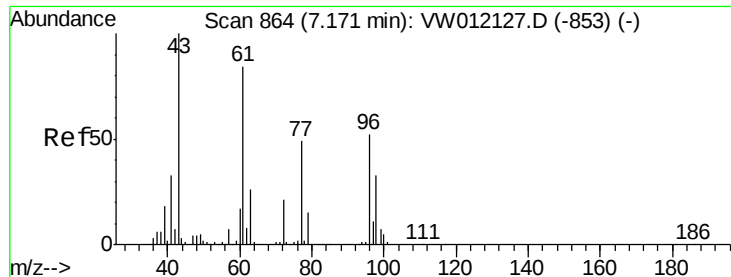
Tgt Ion: 43 Resp: 64
Ion Ratio Lower Upper
43 100
74 31.3 15.7 23.5#



#20
Methylene Chloride
Concen: 12.972 ug/l
RT: 4.93 min Scan# 497
Delta R.T. 0.01 min
Lab File: VW012446.D
Acq: 01 Sep 2019 14:23

Tgt Ion: 84 Resp: 1190
Ion Ratio Lower Upper
84 100
49 82.6 117.8 176.8#
51 32.3 35.6 53.4#
86 31.0 51.2 76.8#

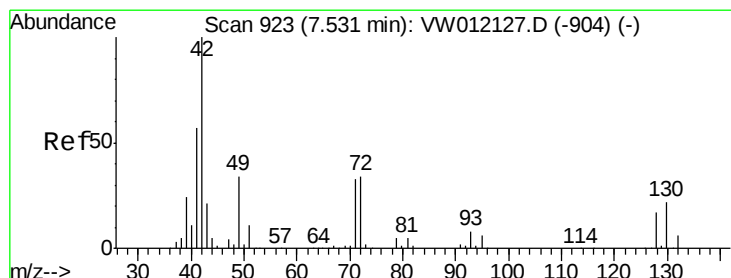
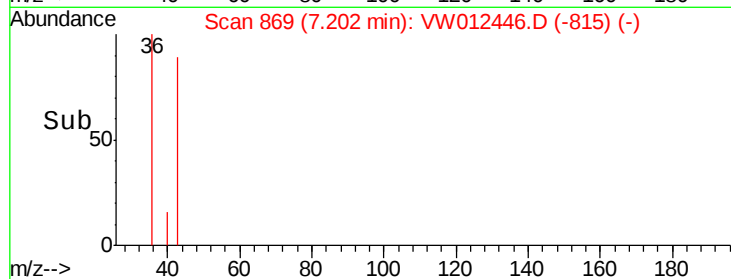
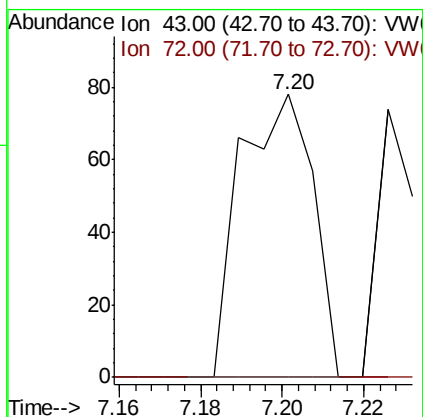
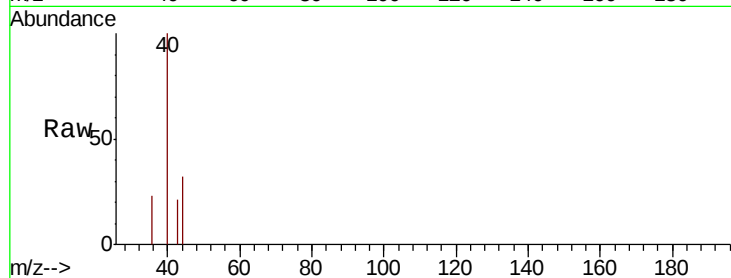




#25
2-Butanone
Concen: 2.942 ug/l
RT: 7.20 min Scan# 869
Delta R.T. 0.03 min
Lab File: VW012446.D
Acq: 01 Sep 2019 14:23

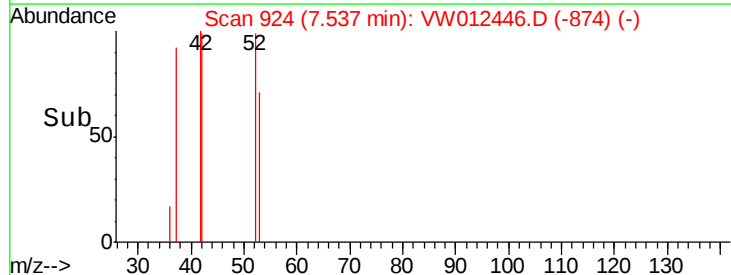
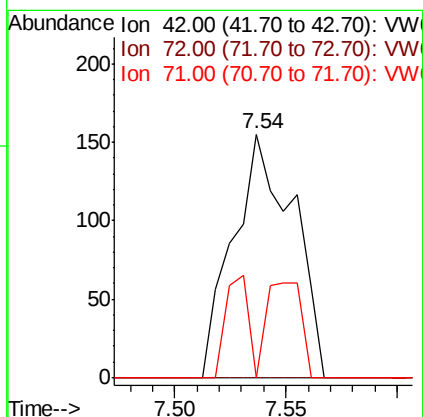
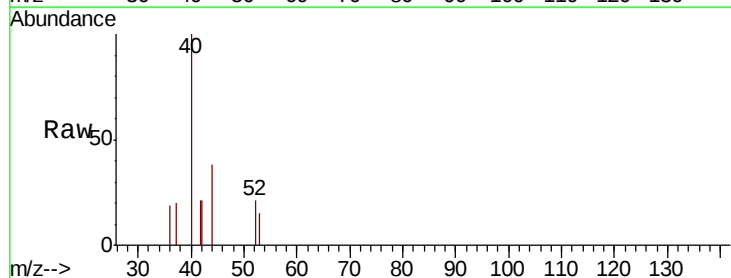
Instrument :
MSVOA_W
ClientSampleId :
T4-S-D2-(0)RE

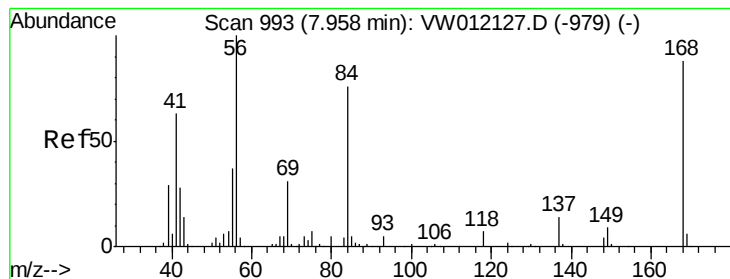
Tgt Ion: 43 Resp: 97
Ion Ratio Lower Upper
43 100
72 0.0 16.6 24.8#



#29
Tetrahydrofuran
Concen: 14.658 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW012446.D
Acq: 01 Sep 2019 14:23

Tgt Ion: 42 Resp: 290
Ion Ratio Lower Upper
42 100
72 0.0 27.3 40.9#
71 15.5 25.5 38.3#





#31

Cyclohexane

Concen: 1.784 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW012446.D

Acq: 01 Sep 2019 14:23

Instrument :

MSVOA_W

ClientSampleId :

T4-S-D2-(0)RE

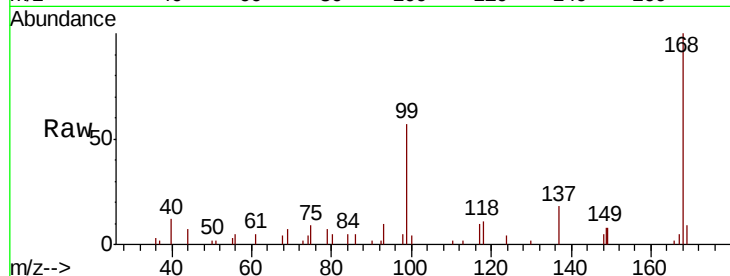
Tgt Ion: 56 Resp: 305

Ion Ratio Lower Upper

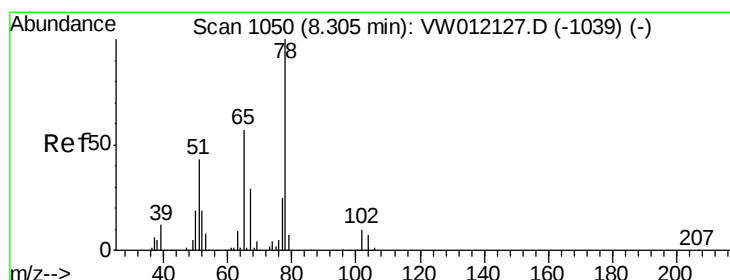
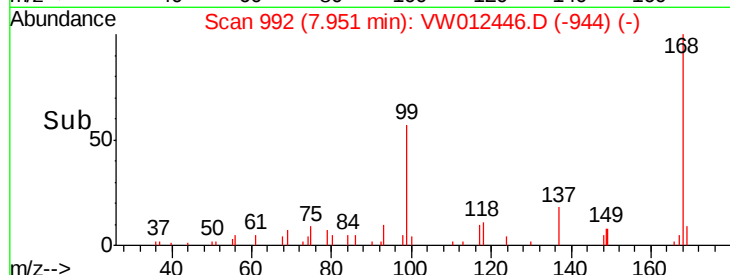
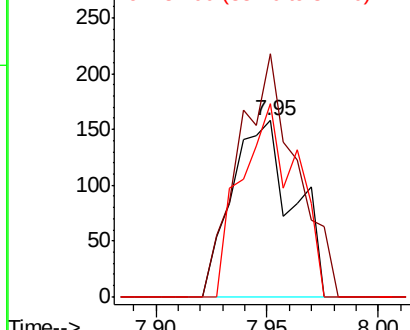
56 100

69 138.0 24.9 37.3#

84 109.5 60.6 90.8#



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: 53.521 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012446.D

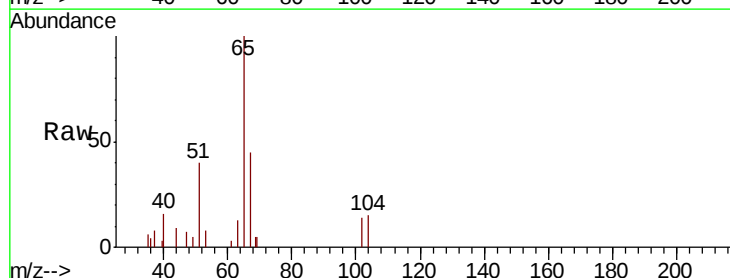
Acq: 01 Sep 2019 14:23

Tgt Ion: 65 Resp: 5081

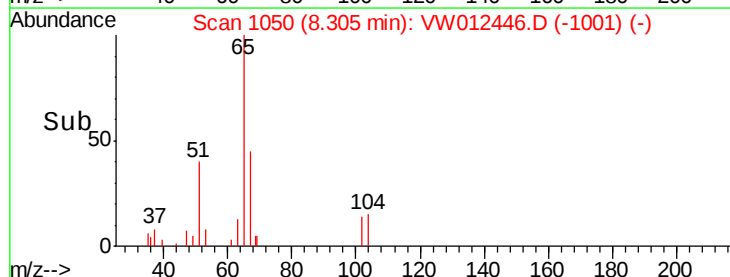
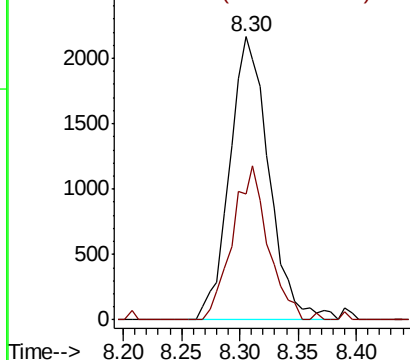
Ion Ratio Lower Upper

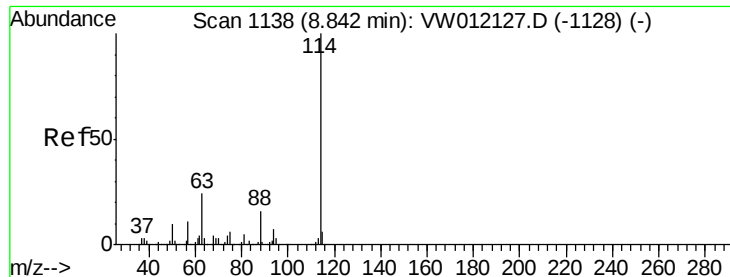
65 100

67 49.2 0.0 102.6



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

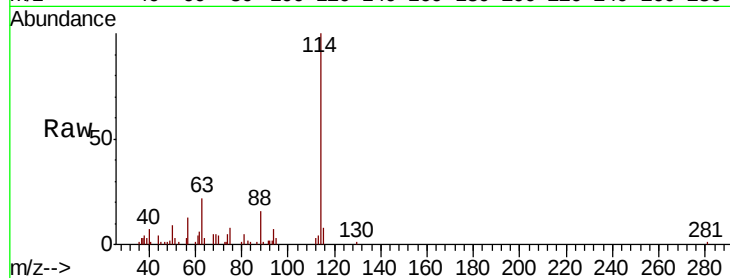




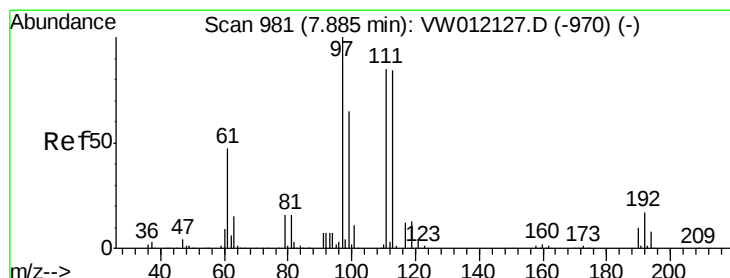
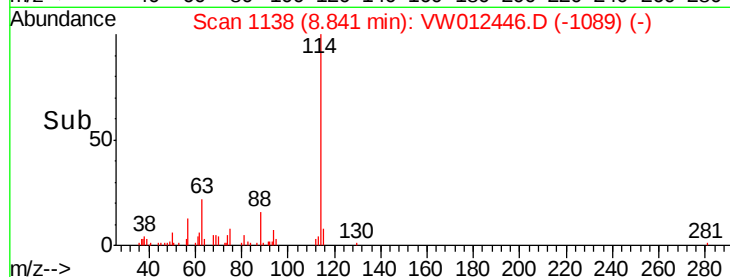
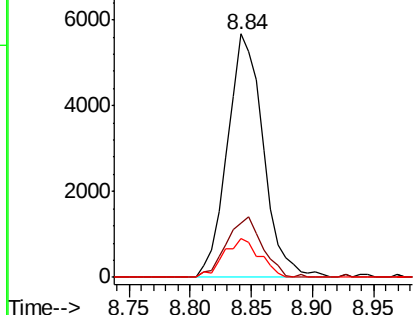
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.84 min Scan# 1138
Delta R.T. -0.00 min
Lab File: VW012446.D
Acq: 01 Sep 2019 14:23

Instrument :
MSVOA_W
ClientSampleId :
T4-S-D2-(0)RE

Tgt Ion:114 Resp: 11497
Ion Ratio Lower Upper
114 100
63 22.4 0.0 48.6
88 16.1 0.0 32.2

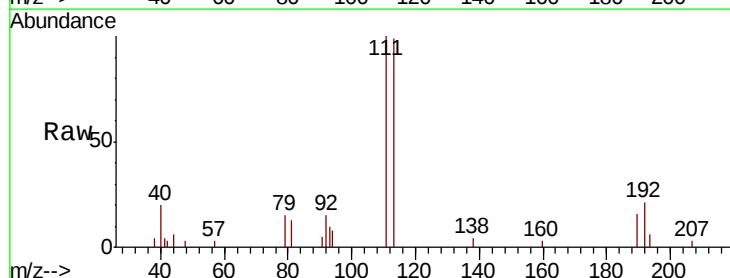


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VW
Ion 87.90 (87.60 to 88.60): VW

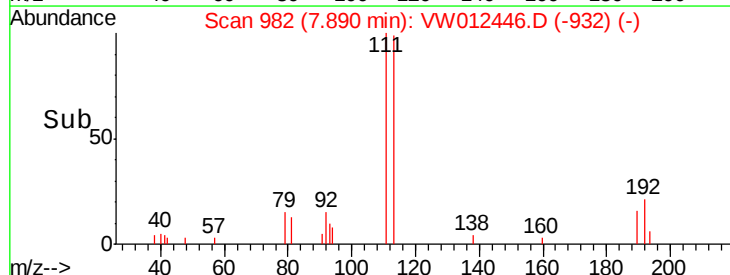
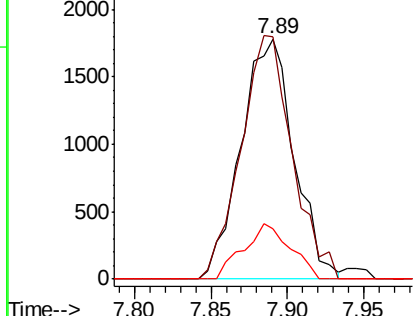


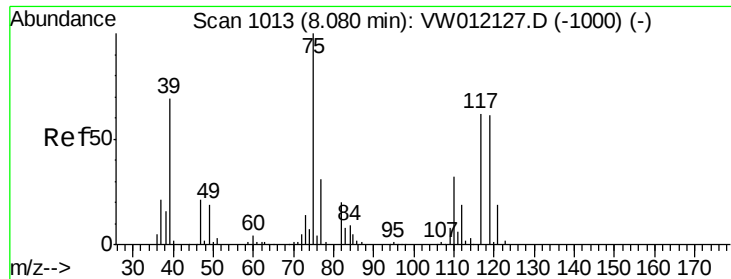
#35
Dibromofluoromethane
Concen: 62.615 ug/l
RT: 7.89 min Scan# 982
Delta R.T. 0.01 min
Lab File: VW012446.D
Acq: 01 Sep 2019 14:23

Tgt Ion:113 Resp: 4297
Ion Ratio Lower Upper
113 100
111 97.8 82.7 124.1
192 20.2 16.2 24.2



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

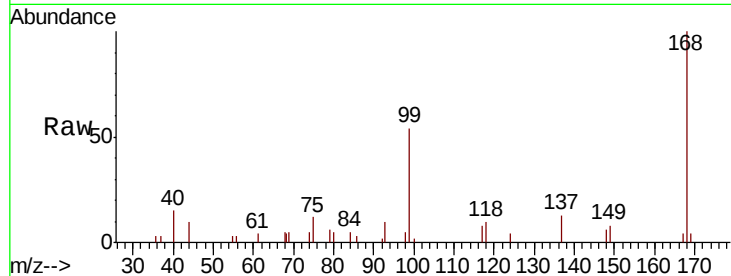




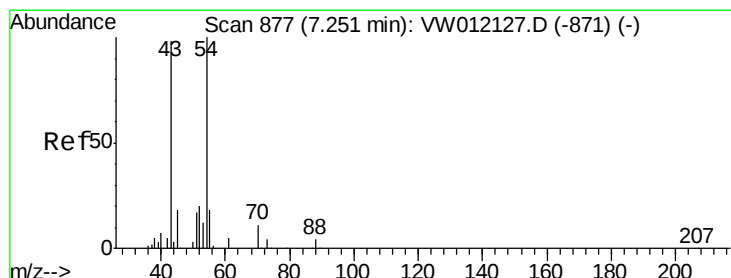
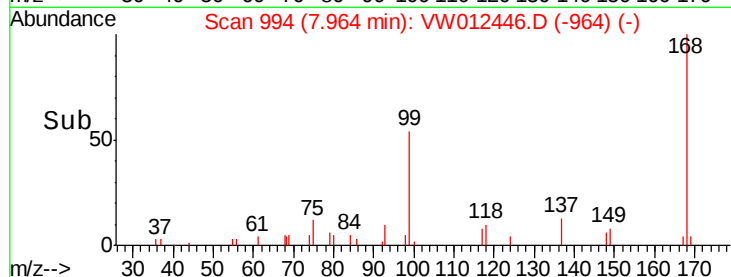
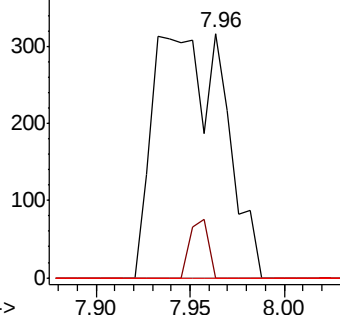
#36
 1,1-Dichloropropene
 Concen: 6.952 ug/l
 RT: 7.96 min Scan# 994
 Delta R.T. -0.12 min
 Lab File: VW012446.D
 Acq: 01 Sep 2019 14:23

Instrument :
 MSVOA_W
 ClientSampleId :
 T4-S-D2-(0)RE

Tgt Ion: 75 Resp: 826
 Ion Ratio Lower Upper
 75 100
 110 6.3 15.6 46.8#
 77 0.0 24.6 36.8#

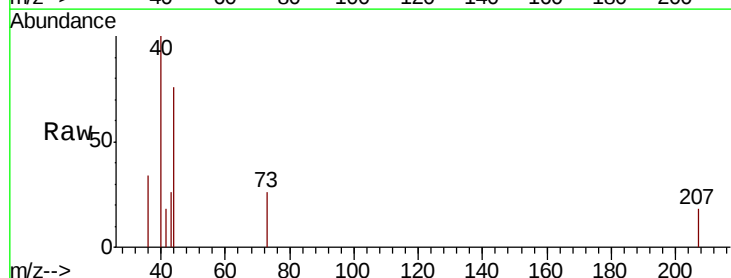


Abundance Ion 74.90 (74.60 to 75.60): VW
 Ion 109.90 (109.60 to 110.60): VW
 Ion 76.90 (76.60 to 77.60): VW

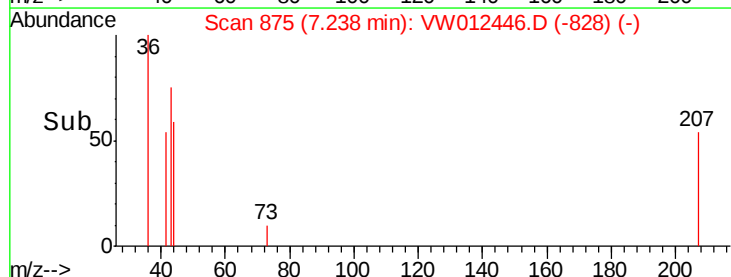
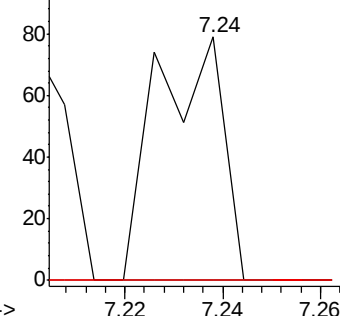


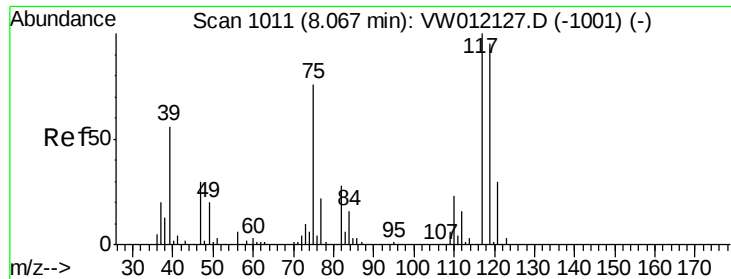
#37
 Ethyl Acetate
 Concen: 1.152 ug/l
 RT: 7.24 min Scan# 875
 Delta R.T. -0.01 min
 Lab File: VW012446.D
 Acq: 01 Sep 2019 14:23

Tgt Ion: 43 Resp: 75
 Ion Ratio Lower Upper
 43 100
 61 0.0 9.2 13.8#
 70 0.0 6.9 10.3#



Abundance Ion 43.00 (42.70 to 43.70): VW
 Ion 60.90 (60.60 to 61.60): VW
 Ion 70.00 (69.70 to 70.70): VW

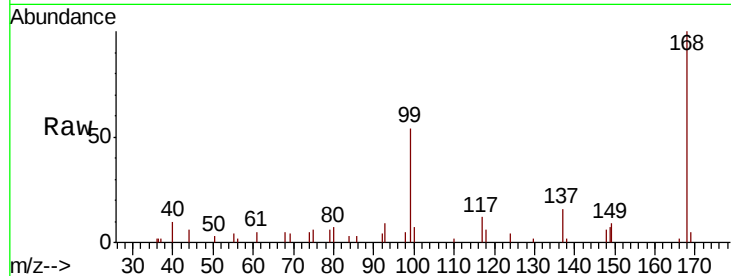




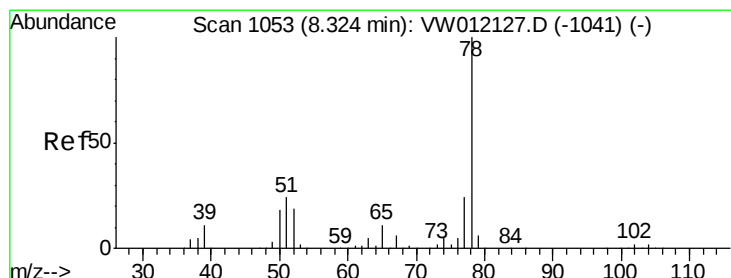
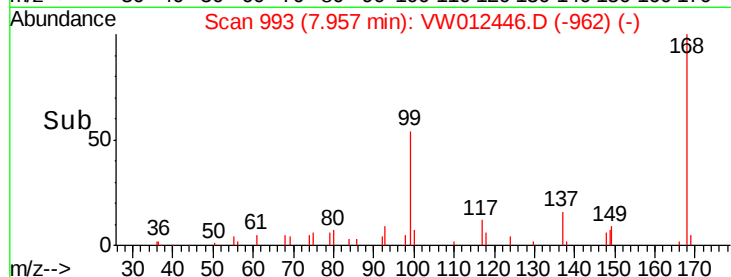
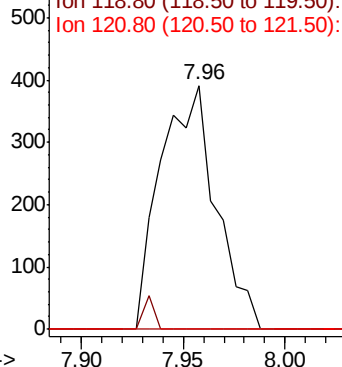
#38
Carbon Tetrachloride
Concen: 7.187 ug/l
RT: 7.96 min Scan# 993
Delta R.T. -0.11 min
Lab File: VW012446.D
Acq: 01 Sep 2019 14:23

Instrument :
MSVOA_W
ClientSampleId :
T4-S-D2-(0)RE

Tgt Ion:117 Resp: 739
Ion Ratio Lower Upper
117 100
119 0.0 76.2 114.2#
121 0.0 23.8 35.8#

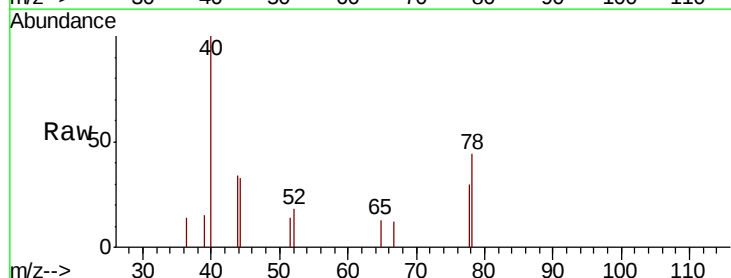


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

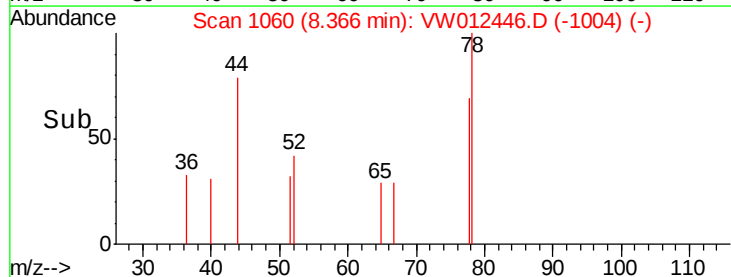
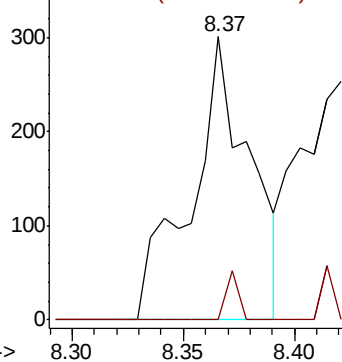


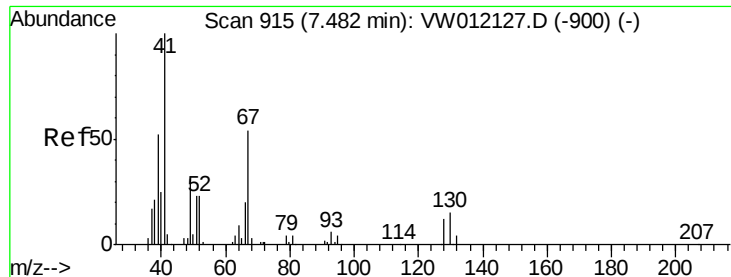
#40
Benzene
Concen: 1.698 ug/l
RT: 8.37 min Scan# 1060
Delta R.T. 0.04 min
Lab File: VW012446.D
Acq: 01 Sep 2019 14:23

Tgt Ion: 78 Resp: 551
Ion Ratio Lower Upper
78 100
77 0.0 19.5 29.3#



Abundance Ion 78.00 (77.70 to 78.70): VW
Ion 77.00 (76.70 to 77.70): VW





#41

Methacrylonitrile

Concen: 2.248 ug/l

RT: 7.46 min Scan# 912

Delta R.T. -0.02 min

Lab File: VW012446.D

Acq: 01 Sep 2019 14:23

Instrument :

MSVOA_W

ClientSampleId :

T4-S-D2-(0)RE

Tgt Ion: 41 Resp: 86

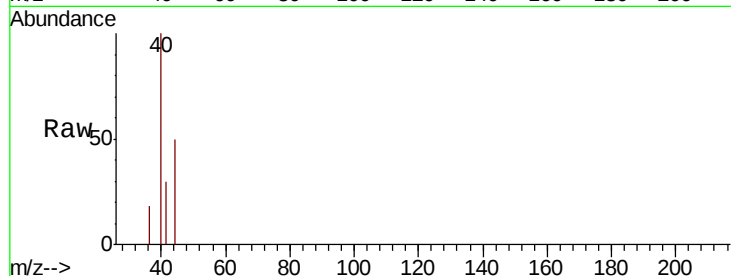
Ion Ratio Lower Upper

41 100

39 102.3 45.8 68.8#

67 0.0 46.2 69.4#

52 0.0 21.0 31.6#

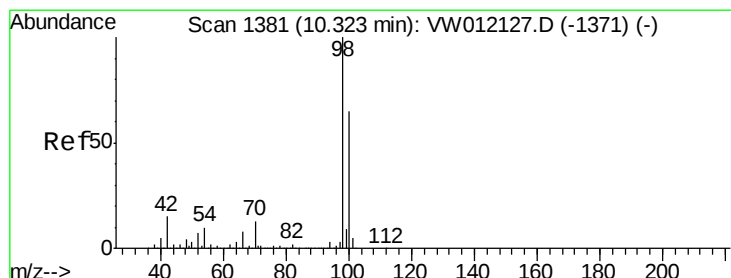
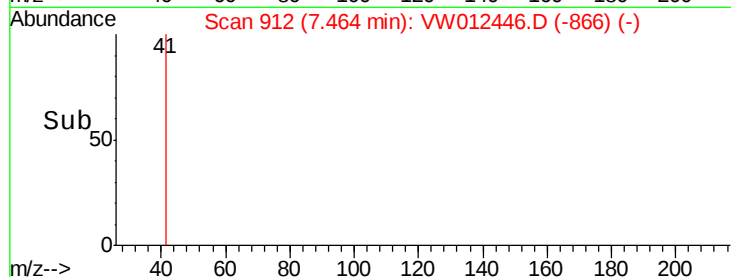
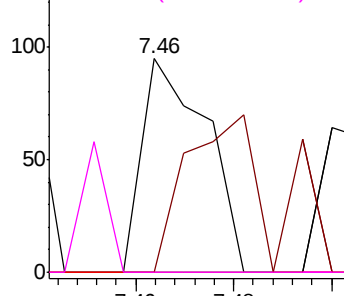


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW



#50

Toluene-d8

Concen: 45.767 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012446.D

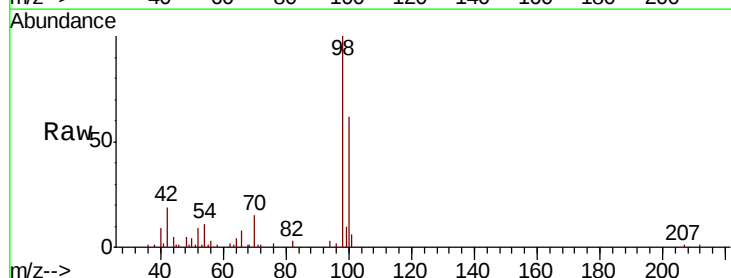
Acq: 01 Sep 2019 14:23

Tgt Ion: 98 Resp: 12735

Ion Ratio Lower Upper

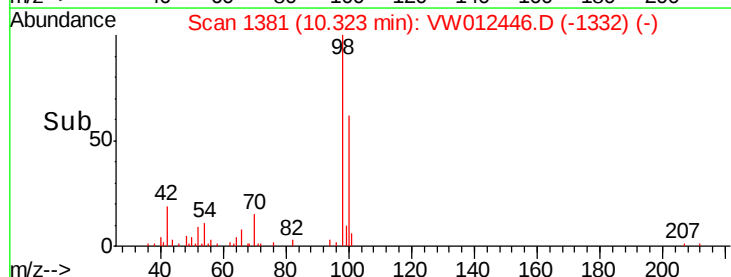
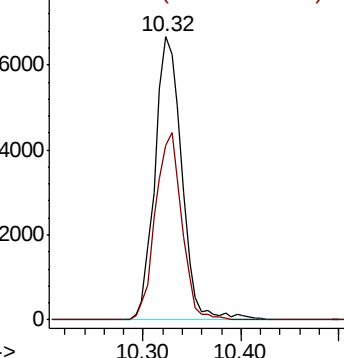
98 100

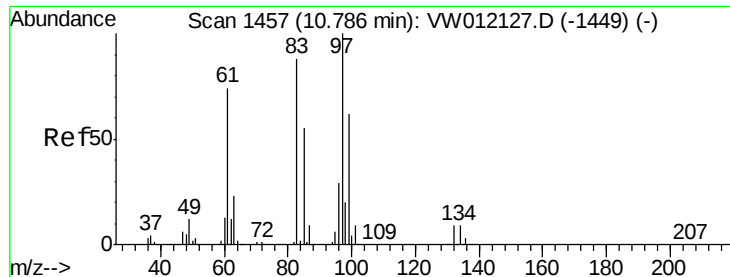
100 65.0 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#55

1,1,2-Trichloroethane

Concen: 2.638 ug/l

RT: 10.71 min Scan# 1444

Delta R.T. -0.08 min

Lab File: VW012446.D

Acq: 01 Sep 2019 14:23

Instrument :

MSVOA_W

ClientSampleId :

T4-S-D2-(0)RE

Tgt Ion: 97 Resp: 145

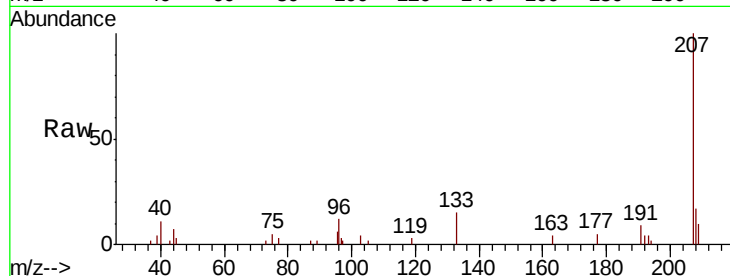
Ion Ratio Lower Upper

97 100

83 0.0 70.8 106.2#

85 0.0 43.8 65.8#

99 0.0 49.8 74.6#

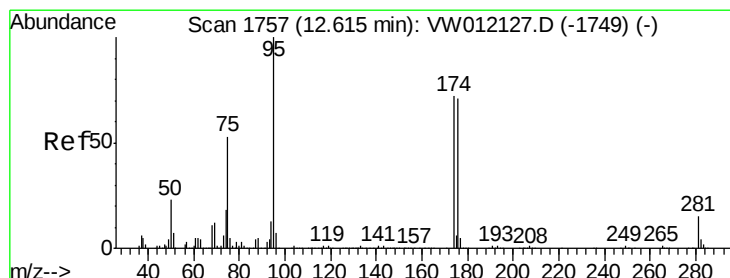
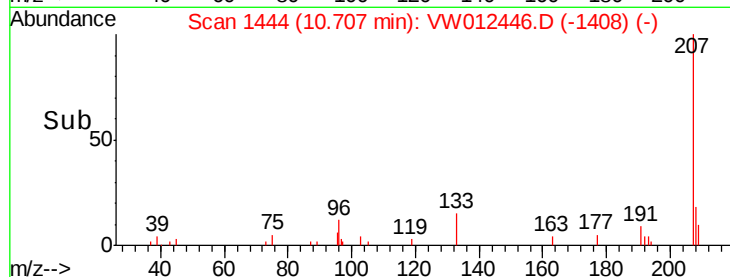
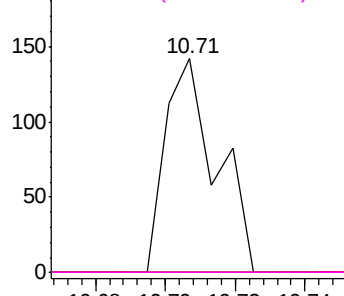


Abundance Ion 96.90 (96.60 to 97.60): VW

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



#62

4-Bromofluorobenzene

Concen: 16.455 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012446.D

Acq: 01 Sep 2019 14:23

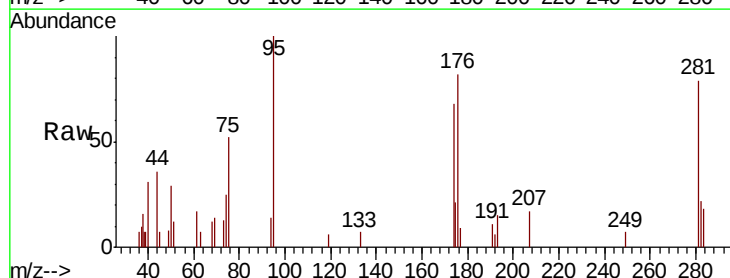
Tgt Ion: 95 Resp: 1614

Ion Ratio Lower Upper

95 100

174 80.8 0.0 150.8

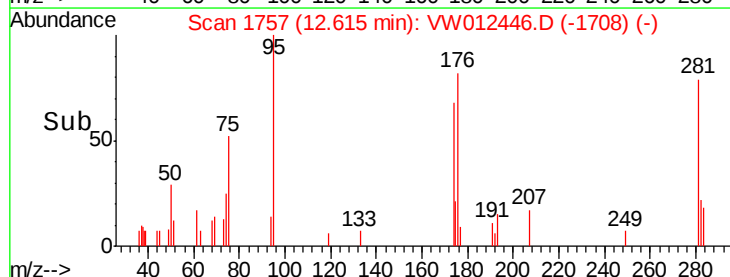
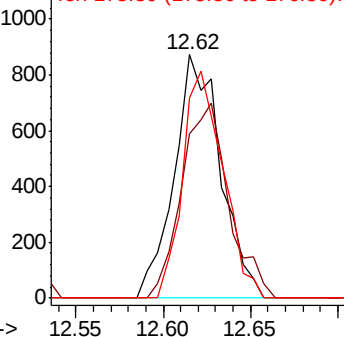
176 81.2 0.0 148.6

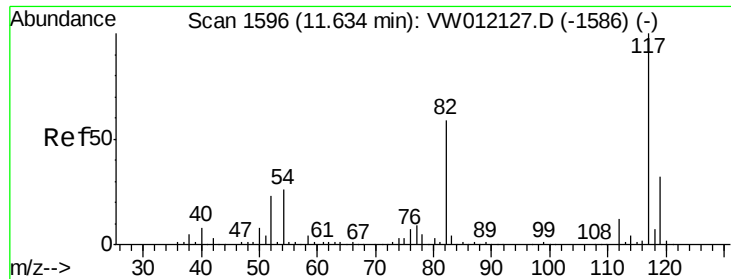


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

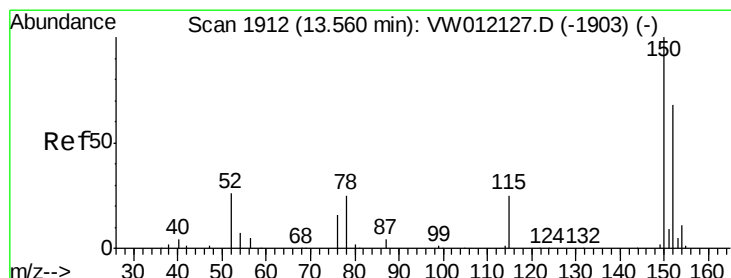
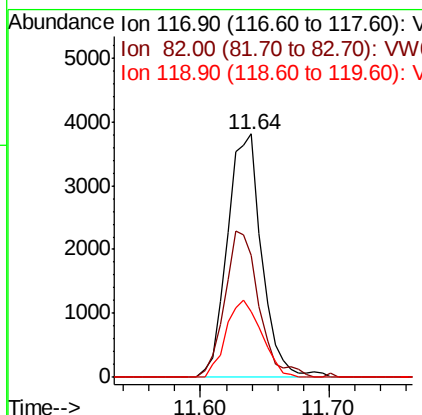
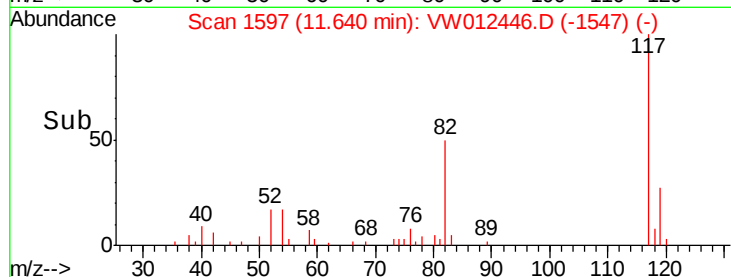
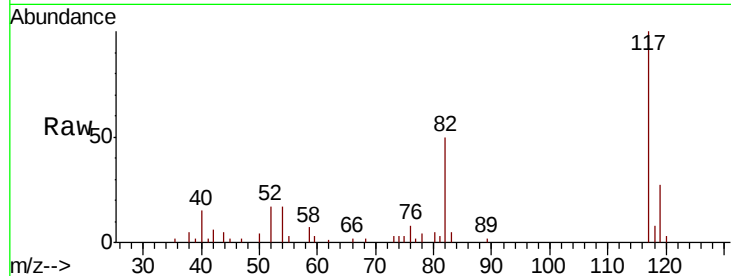




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1597
Delta R.T. 0.01 min
Lab File: VW012446.D
Acq: 01 Sep 2019 14:23

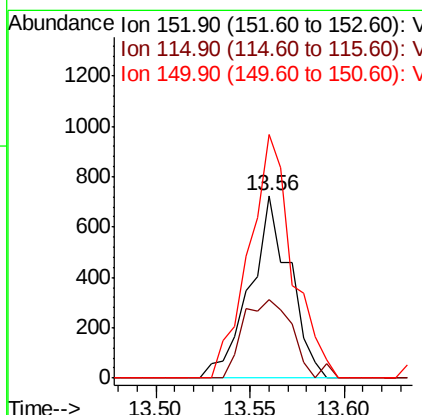
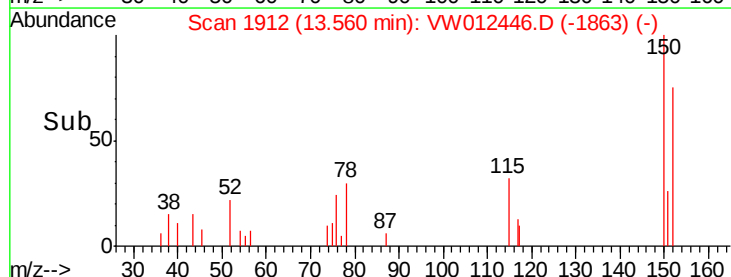
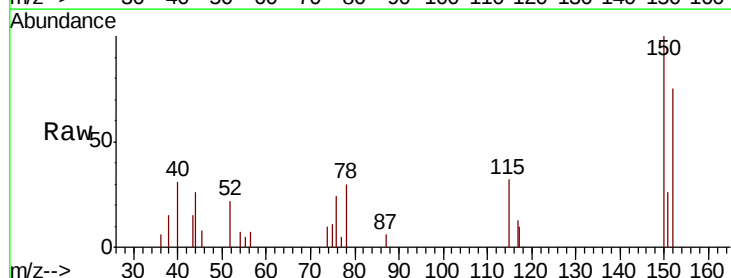
Instrument :
MSVOA_W
ClientSampleId :
T4-S-D2-(0)RE

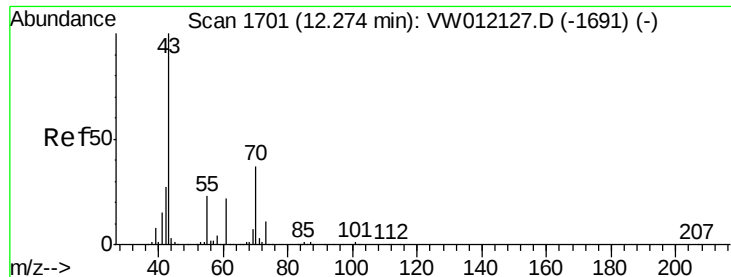
Tgt Ion:117 Resp: 7121
Ion Ratio Lower Upper
117 100
82 50.1 47.4 71.2
119 27.0 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW012446.D
Acq: 01 Sep 2019 14:23

Tgt Ion:152 Resp: 1064
Ion Ratio Lower Upper
152 100
115 53.3 30.1 90.3
150 145.3 0.0 345.8





#74

N-ethyl acetate

Concen: 5.563 ug/l

RT: 12.25 min Scan# 1697

Delta R.T. -0.02 min

Lab File: VW012446.D

Acq: 01 Sep 2019 14:23

Instrument :

MSVOA_W

ClientSampled :

T4-S-D2-(0)RE

Tgt Ion: 43 Resp: 134

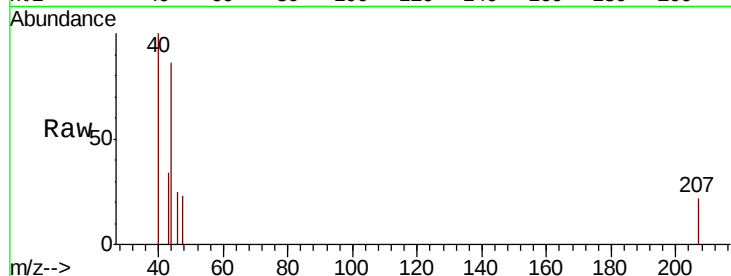
Ion Ratio Lower Upper

43 100

70 0.0 28.6 43.0#

55 14.9 17.8 26.6#

61 0.0 17.3 25.9#

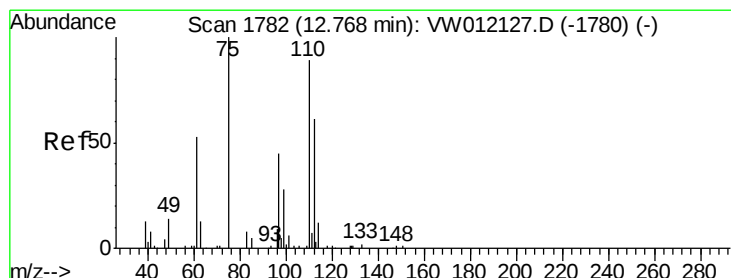
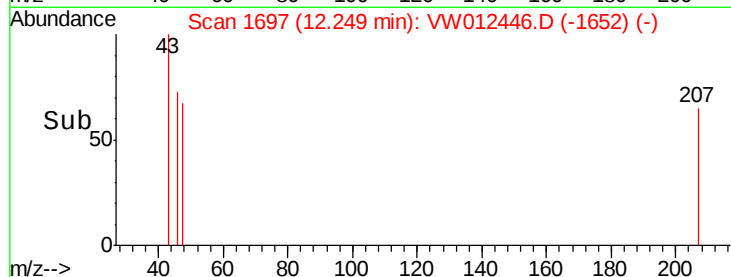
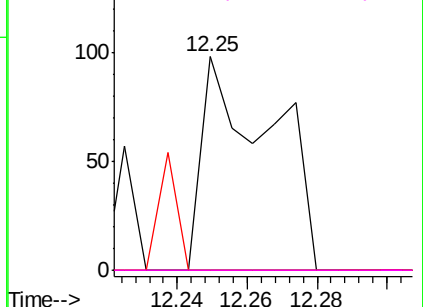


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 91.676 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW012446.D

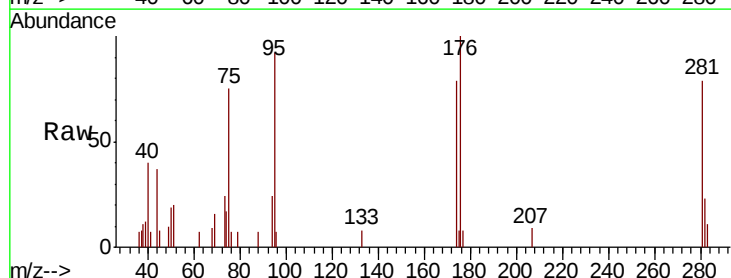
Acq: 01 Sep 2019 14:23

Tgt Ion: 75 Resp: 950

Ion Ratio Lower Upper

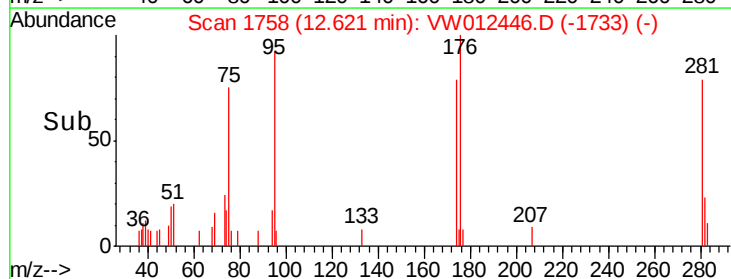
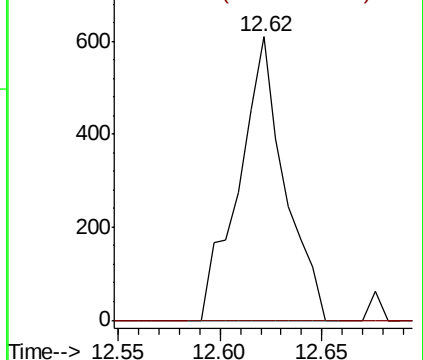
75 100

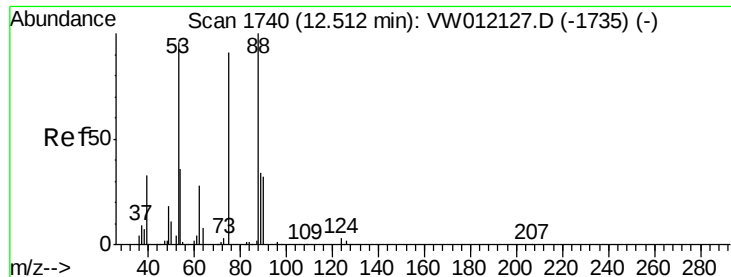
77 0.0 0.0 0.0



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: 201.003 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW012446.D

Acq: 01 Sep 2019 14:23

Instrument :

MSVOA_W

ClientSampleId :

T4-S-D2-(0)RE

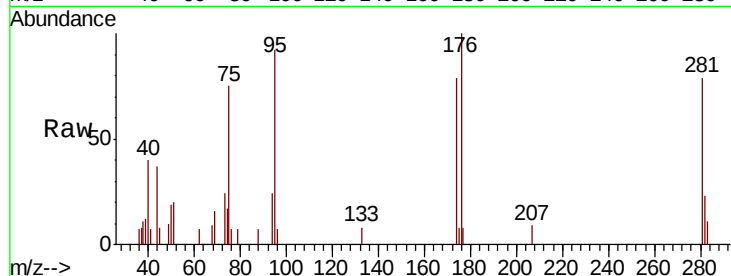
Tgt Ion: 75 Resp: 950

Ion Ratio Lower Upper

75 100

53 0.0 89.4 134.0#

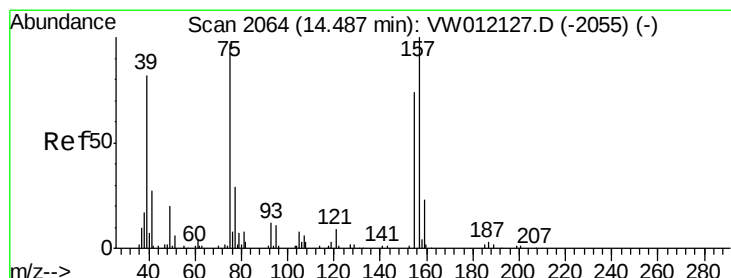
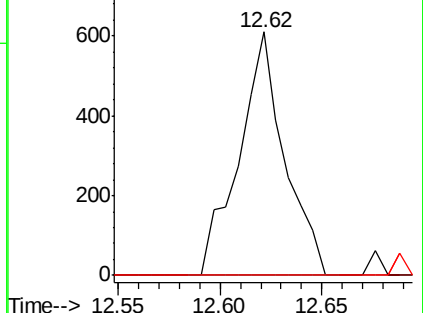
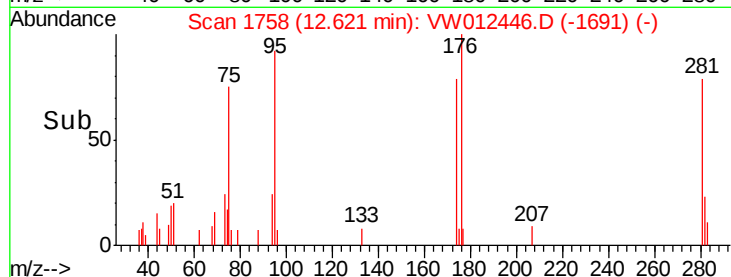
89 0.0 34.5 51.7#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW



#92

1,2-Dibromo-3-Chloropropane

Concen: 8.117 ug/l

RT: 14.68 min Scan# 2096

Delta R.T. 0.19 min

Lab File: VW012446.D

Acq: 01 Sep 2019 14:23

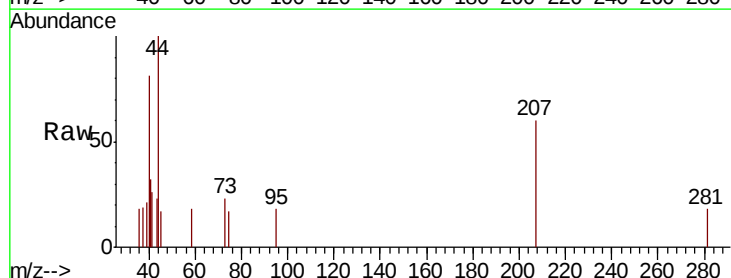
Tgt Ion: 75 Resp: 20

Ion Ratio Lower Upper

75 100

155 0.0 37.5 112.3#

157 0.0 50.5 151.5#



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

