

Data File : VW012832.D
Acq On : 09 Sep 2019 19:51
Operator : SY/VA
Sample : K4655-02
Misc : 6.03G/5ML/MSVOA_W/SOIL
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-15-S2

Quant Time: Sep 10 07:03:27 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W090719S.M
Quant Title : SW846 8260
QLast Update : Sun Sep 08 05:04:40 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	217832	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	338118	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	253432	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	89303	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	119773	49.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.42%	
35) Dibromofluoromethane	7.88	113	98145	48.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.64%	
50) Toluene-d8	10.32	98	379098	48.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.28%	
62) 4-Bromofluorobenzene	12.62	95	107956	37.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.52%	

Target Compounds

						Qvalue
8) Diethyl Ether	3.68	74	1265	1.239	ug/l	82
11) Tert butyl alcohol	5.12	59	3986	21.405	ug/l #	72
16) Acetone	4.13	43	17244	25.988	ug/l	96
17) Carbon Disulfide	4.38	76	5635	1.476	ug/l	97
20) Methylene Chloride	4.91	84	13139	6.329	ug/l	95
25) 2-Butanone	7.18	43	3366	22.854	ug/l	96
26) 2,2-Dichloropropane	7.15	77	3069	1.223	ug/l #	55
29) Tetrahydrofuran	7.54	42	707	1.319	ug/l #	82
31) Cyclohexane	7.94	56	4825	1.349	ug/l #	7
36) 1,1-Dichloropropene	7.94	75	16362	5.446	ug/l #	52
38) Carbon Tetrachloride	7.95	117	20180	6.814	ug/l #	18
41) Methacrylonitrile	7.51	41	97	3.908	ug/l #	31
74) N-amyl acetate	12.24	43	2644	1.301	ug/l #	46
75) 1,1,2,2-Tetrachloroethane	12.68	83	1450	1.127	ug/l #	27
76) 1,2,3-Trichloropropane	12.62	75	56220	61.566	ug/l #	100
77) Bromobenzene	12.89	156	29129	20.073	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	56220	130.217	ug/l #	7
95) Naphthalene	15.36	128	1294	4.754	ug/l #	93

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

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ClientSampleId :
TP-15-S2

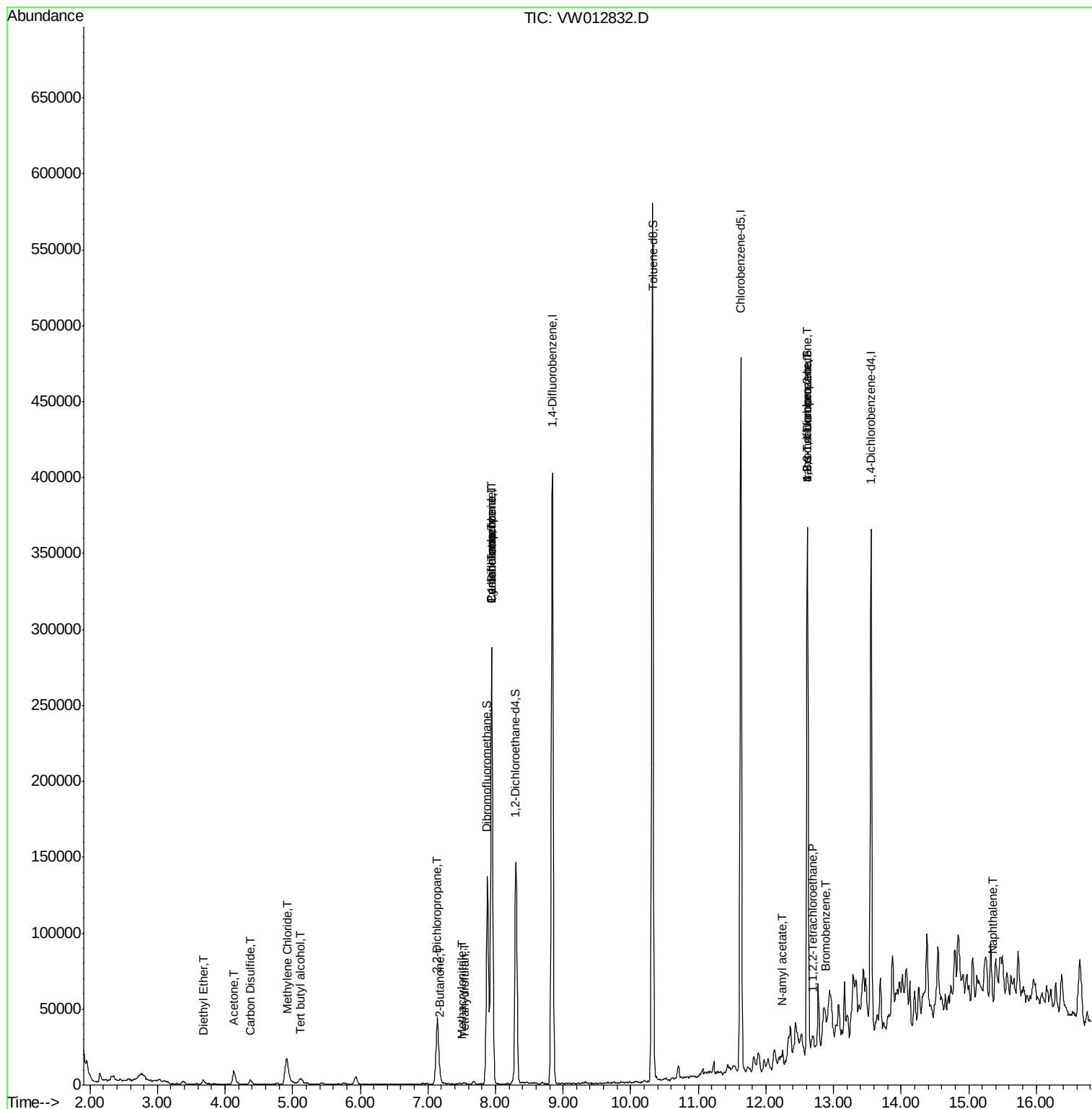
Quant Time: Sep 10 07:03:27 2019

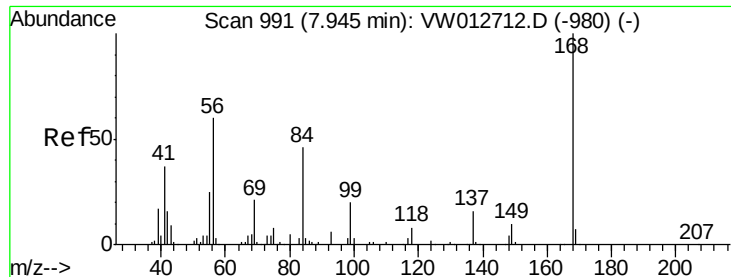
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_W\METHOD\82W090719S.M

Quant Title : SW846 8260

QLast Update : Sun Sep 08 05:04:40 2019

Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

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Instrument :

MSVOA_W

ClientSampleId :

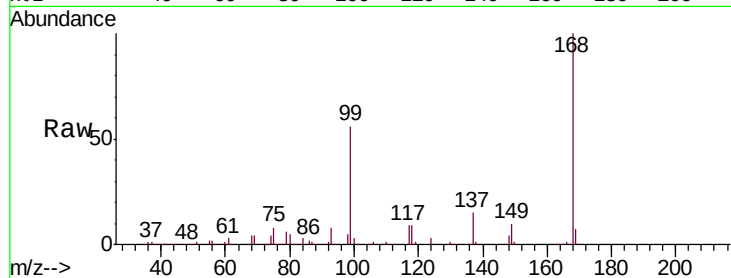
TP-15-S2

Tgt Ion:168 Resp: 217832

Ion Ratio Lower Upper

168 100

99 56.5 47.8 71.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

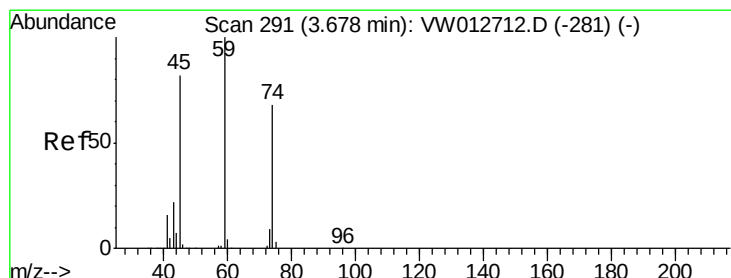
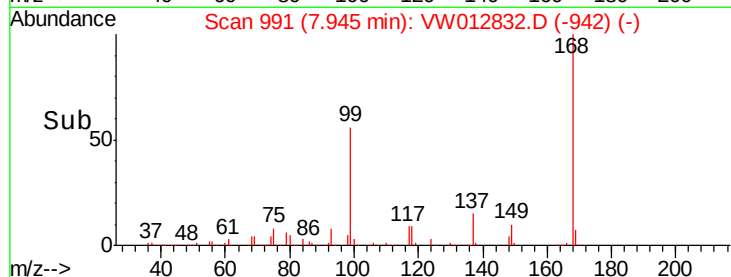
60000

40000

20000

0

Time--> 7.80 7.90 8.00



#8

Diethyl Ether

Concen: 1.239 ug/l

RT: 3.68 min Scan# 291

Delta R.T. 0.00 min

Lab File: VW012832.D

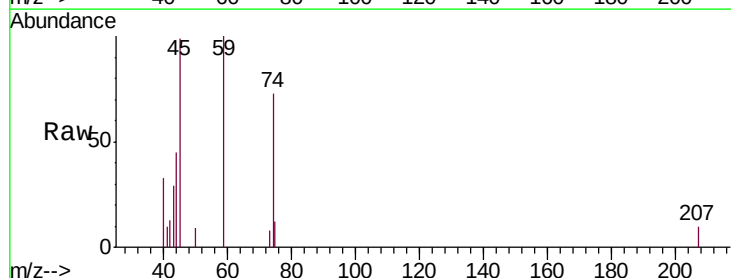
Acq: 09 Sep 2019 19:51

Tgt Ion: 74 Resp: 1265

Ion Ratio Lower Upper

74 100

45 137.1 58.8 176.4



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

800

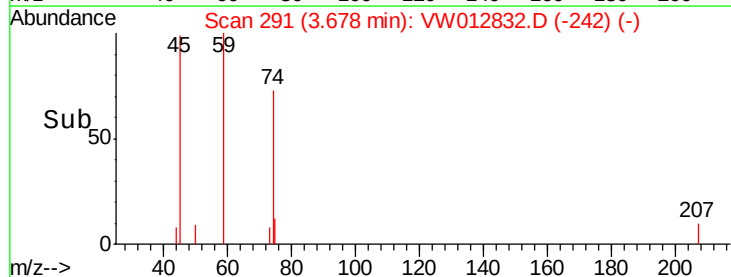
600

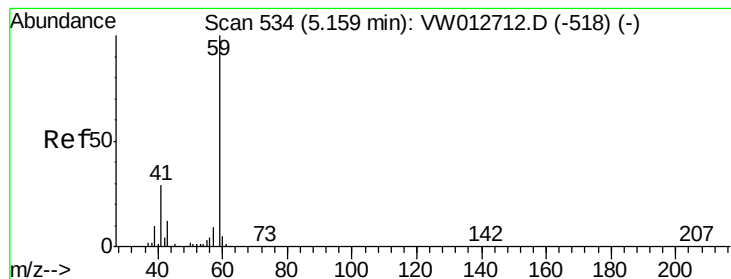
400

200

0

Time--> 3.60 3.65 3.70 3.75





#11

Tert butyl alcohol

Concen: 21.405 ug/l

RT: 5.12 min Scan# 528

Delta R.T. -0.04 min

Lab File: VW012832.D

Acq: 09 Sep 2019 19:51

Instrument :

MSVOA_W

ClientSampled :

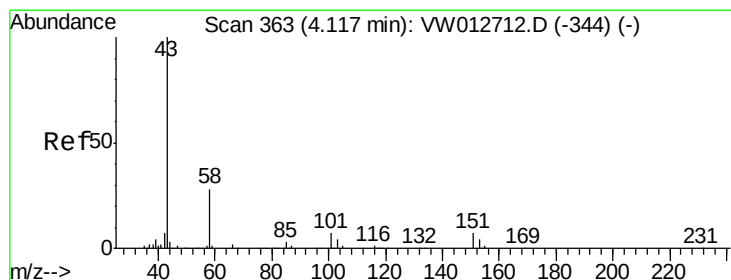
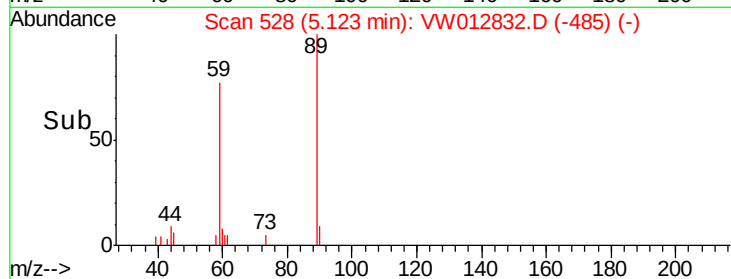
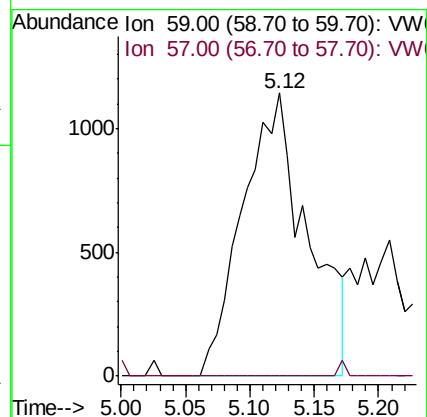
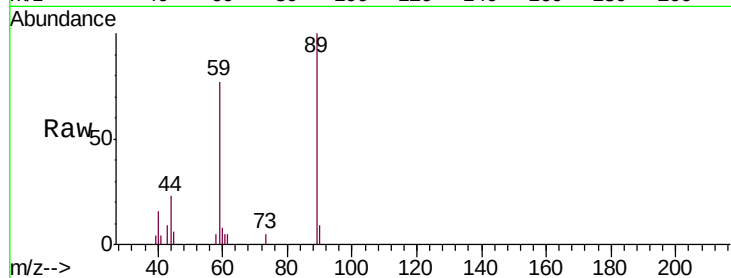
TP-15-S2

Tgt Ion: 59 Resp: 3986

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#16

Acetone

Concen: 25.988 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW012832.D

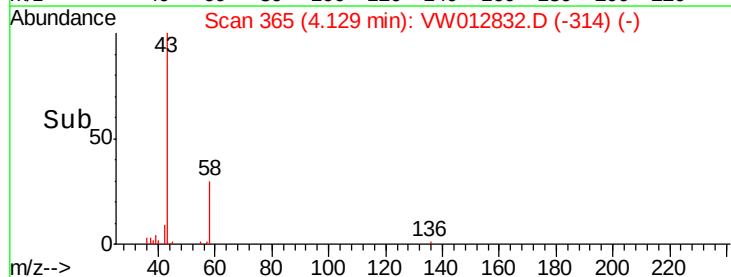
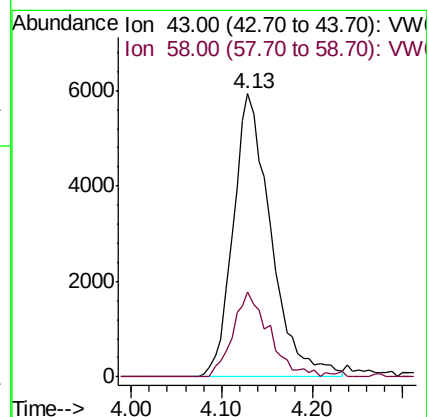
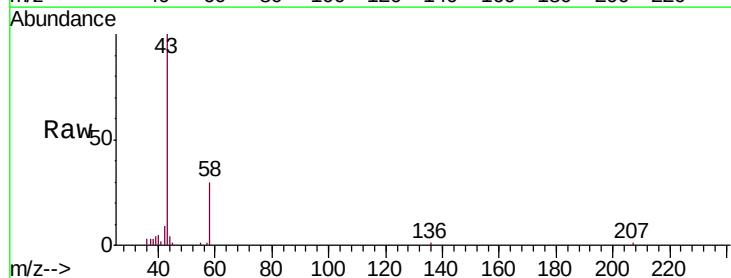
Acq: 09 Sep 2019 19:51

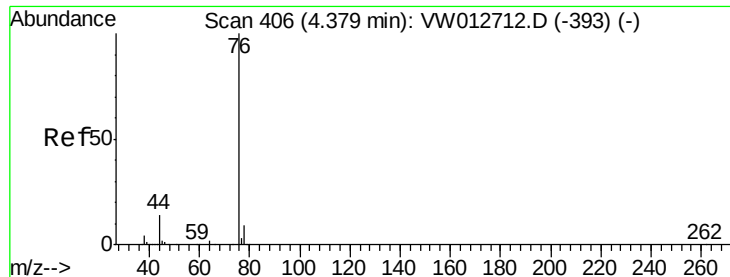
Tgt Ion: 43 Resp: 17244

Ion Ratio Lower Upper

43 100

58 30.2 22.6 33.8





#17

Carbon Disulfide

Concen: 1.476 ug/l

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW012832.D

Acq: 09 Sep 2019 19:51

Instrument :

MSVOA_W

ClientSampleId :

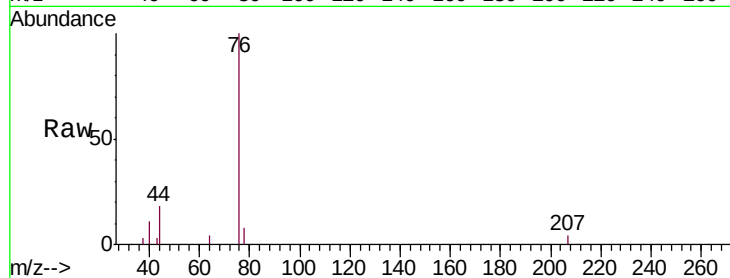
TP-15-S2

Tgt Ion: 76 Resp: 5635

Ion Ratio Lower Upper

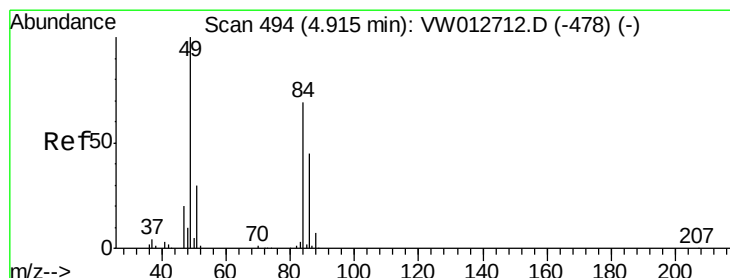
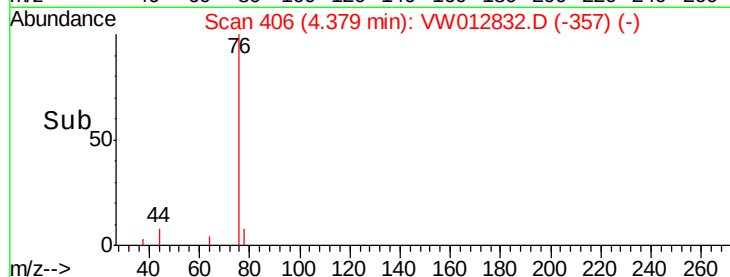
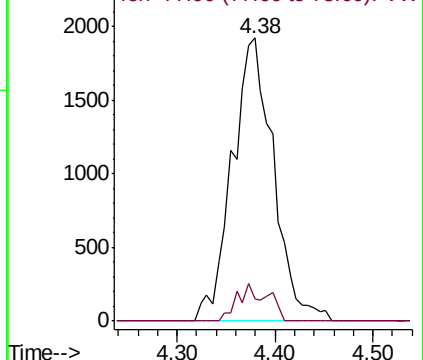
76 100

78 7.8 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#20

Methylene Chloride

Concen: 6.329 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW012832.D

Acq: 09 Sep 2019 19:51

Tgt Ion: 84 Resp: 13139

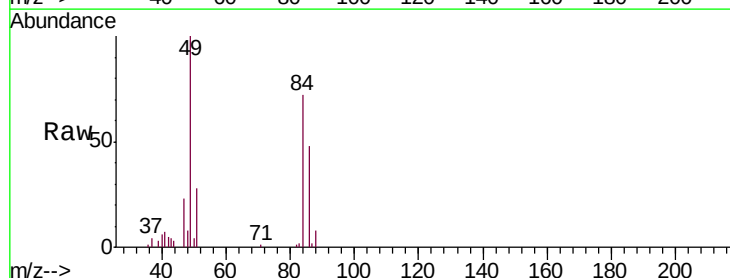
Ion Ratio Lower Upper

84 100

49 135.5 115.4 173.0

51 39.2 34.9 52.3

86 65.9 52.2 78.4

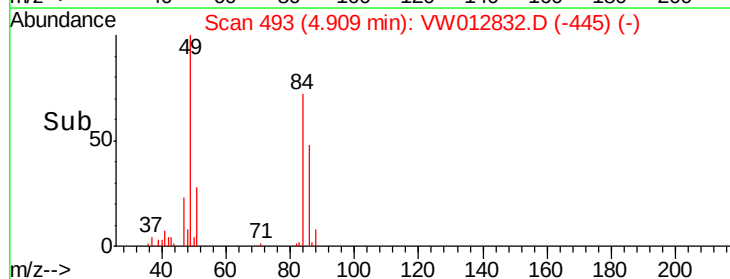
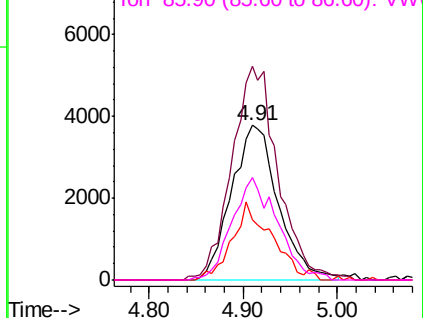


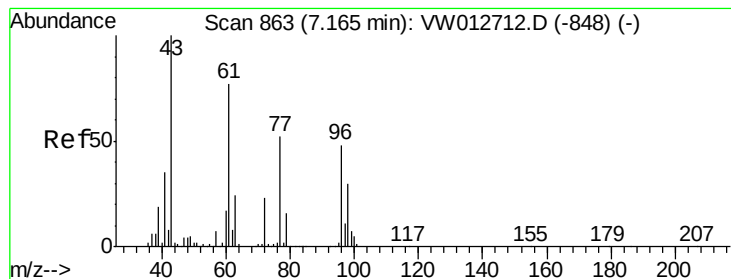
Abundance Ion 83.90 (83.60 to 84.60): VW

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: 22.854 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW012832.D

Acq: 09 Sep 2019 19:51

Instrument :

MSVOA_W

ClientSampled :

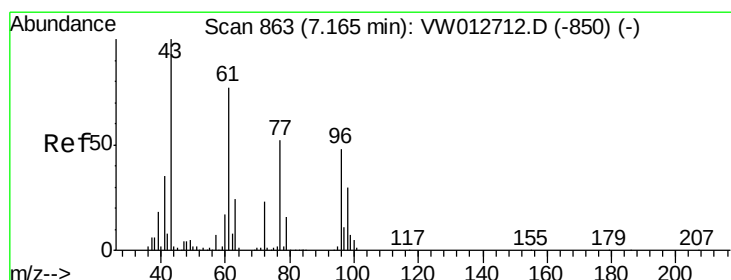
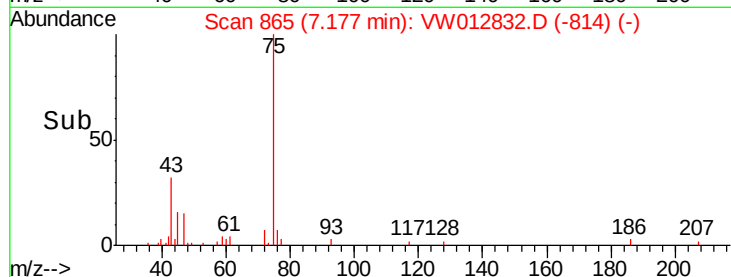
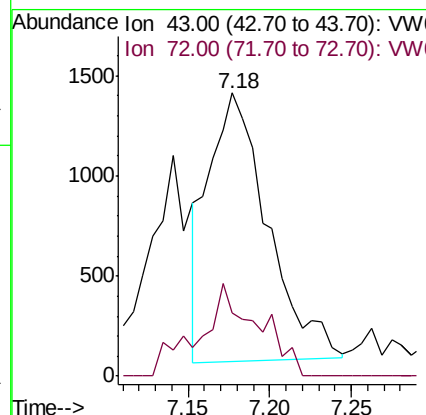
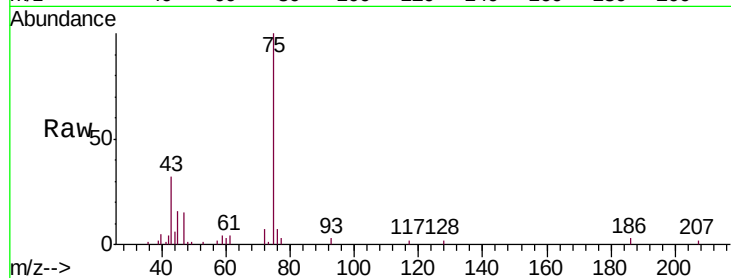
TP-15-S2

Tgt Ion: 43 Resp: 3366

Ion Ratio Lower Upper

43 100

72 24.3 18.0 27.0



#26

2,2-Dichloropropane

Concen: 1.223 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW012832.D

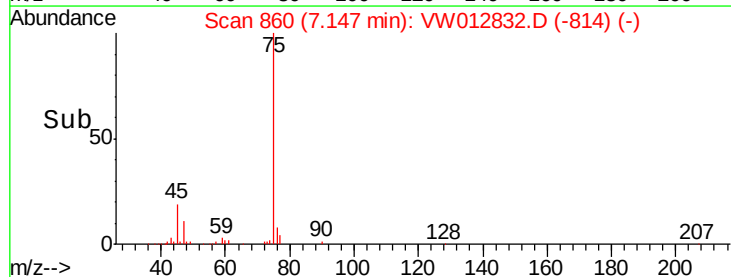
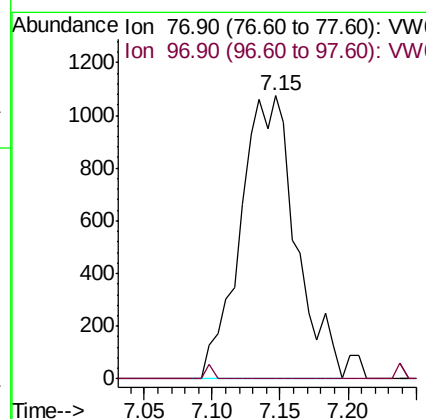
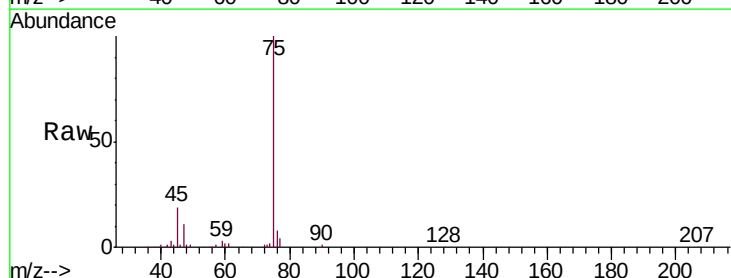
Acq: 09 Sep 2019 19:51

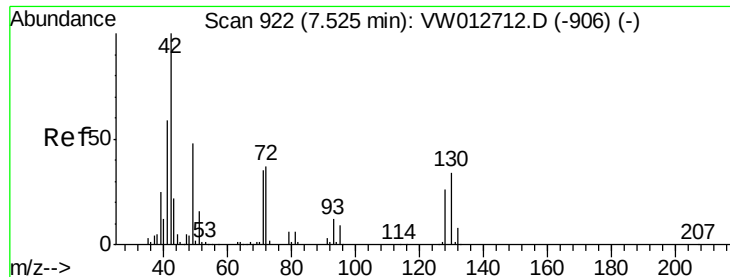
Tgt Ion: 77 Resp: 3069

Ion Ratio Lower Upper

77 100

97 0.0 10.7 32.1#

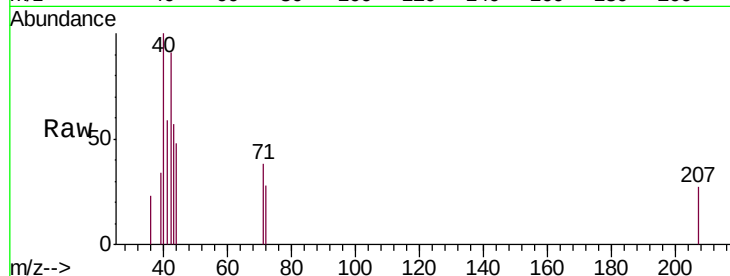




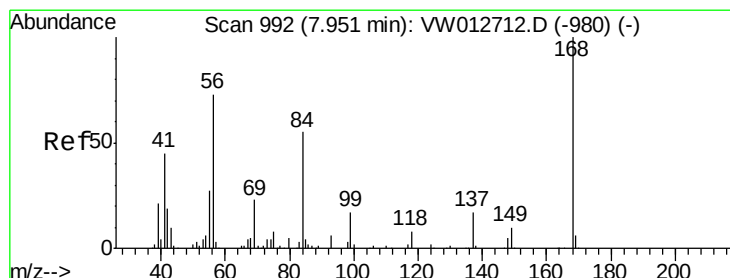
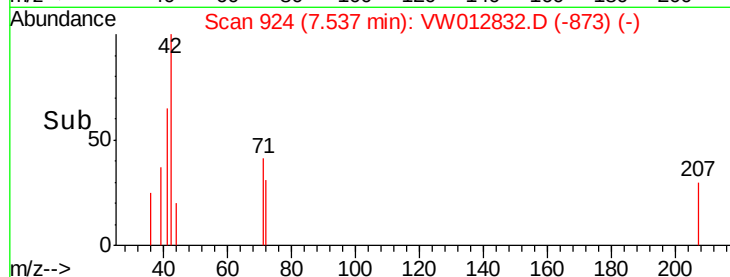
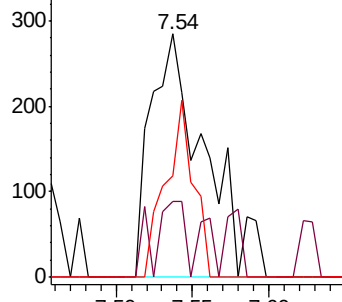
#29
Tetrahydrofuran
Concen: 1.319 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW012832.D
Acq: 09 Sep 2019 19:51

Instrument :
MSVOA_W
ClientSampled :
TP-15-S2

Tgt Ion: 42 Resp: 707
Ion Ratio Lower Upper
42 100
72 17.4 28.4 42.6#
71 36.9 27.1 40.7

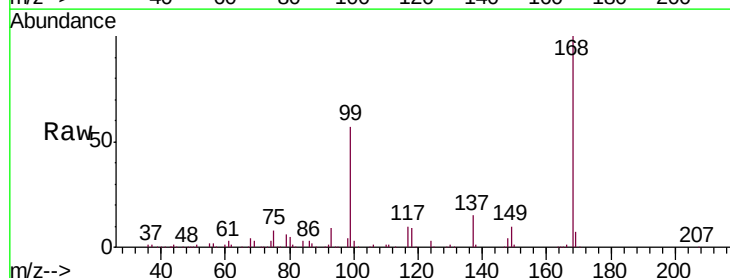


Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW

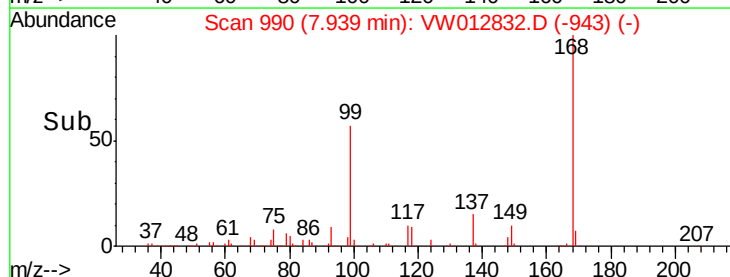
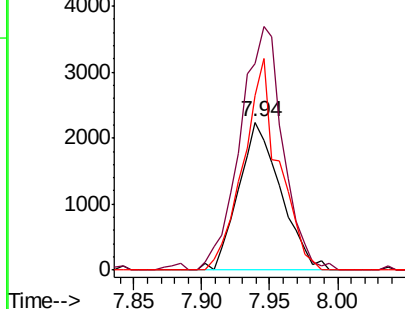


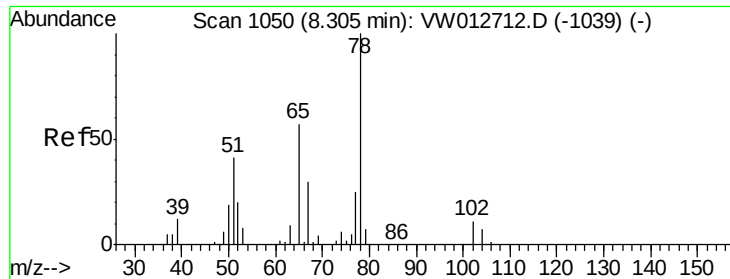
#31
Cyclohexane
Concen: 1.349 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.01 min
Lab File: VW012832.D
Acq: 09 Sep 2019 19:51

Tgt Ion: 56 Resp: 4825
Ion Ratio Lower Upper
56 100
69 139.8 25.7 38.5#
84 118.2 60.4 90.6#



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

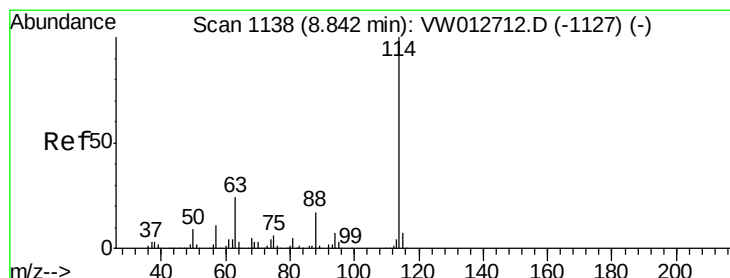
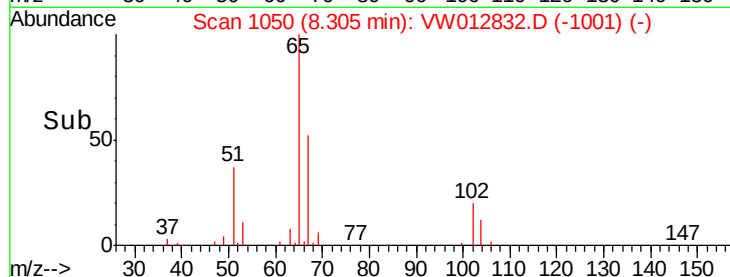
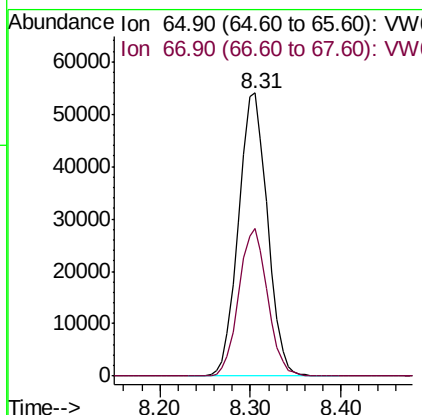
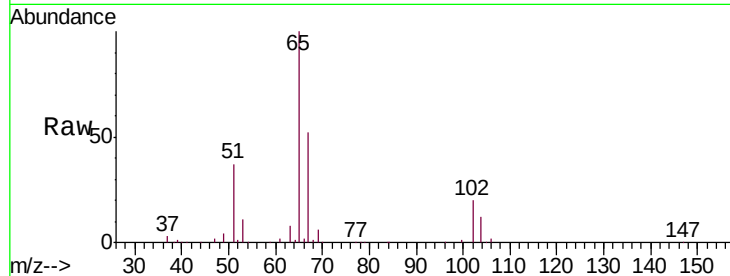




#33
 1,2-Dichloroethane-d4
 Concen: 49.210 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW012832.D
 Acq: 09 Sep 2019 19:51

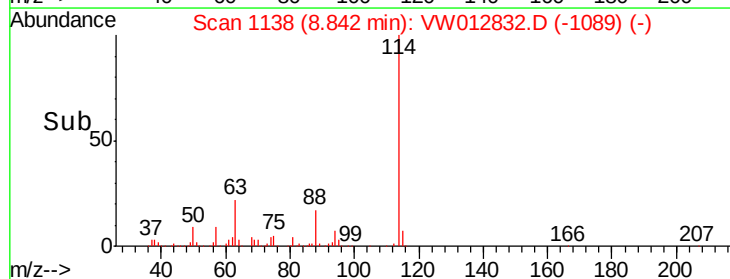
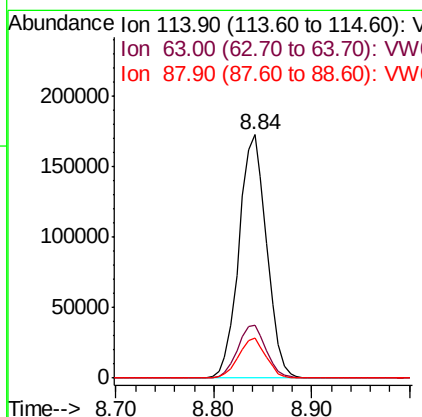
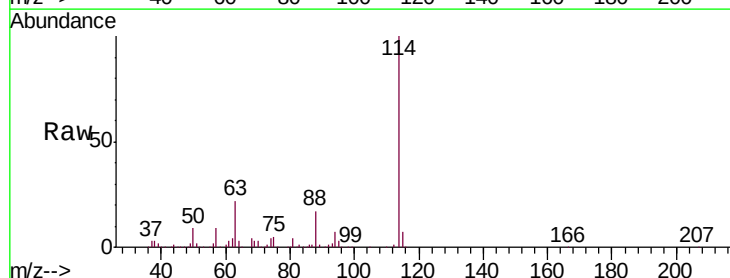
Instrument :
 MSVOA_W
 ClientSampleId :
 TP-15-S2

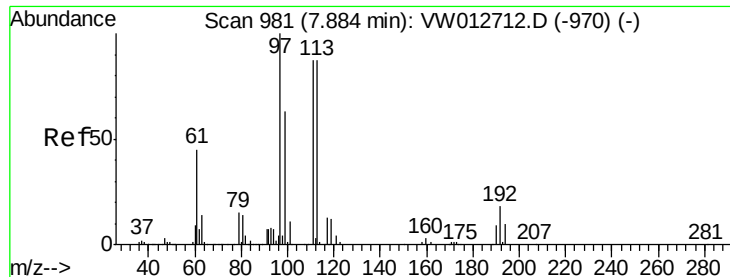
Tgt Ion: 65 Resp: 119773
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 101.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW012832.D
 Acq: 09 Sep 2019 19:51

Tgt Ion: 114 Resp: 338118
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 47.2
 88 16.6 0.0 34.0





#35

Dibromofluoromethane

Concen: 48.823 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW012832.D

Acq: 09 Sep 2019 19:51

Instrument :

MSVOA_W

ClientSampled :

TP-15-S2

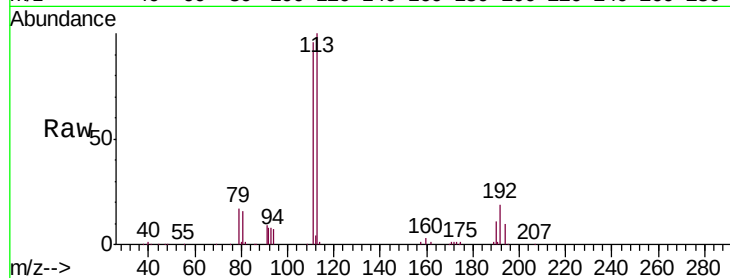
Tgt Ion:113 Resp: 98145

Ion Ratio Lower Upper

113 100

111 102.8 80.2 120.4

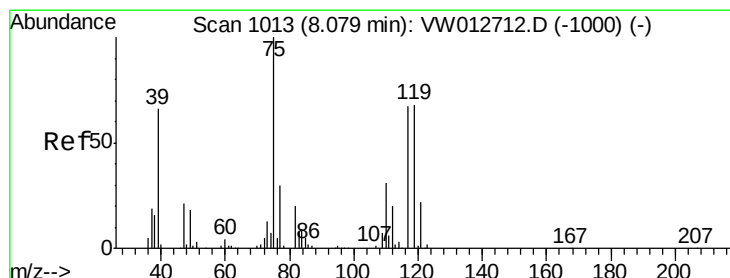
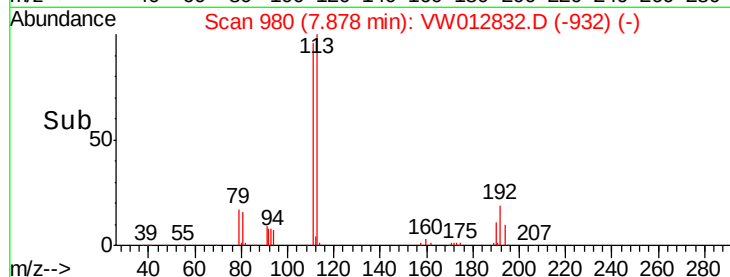
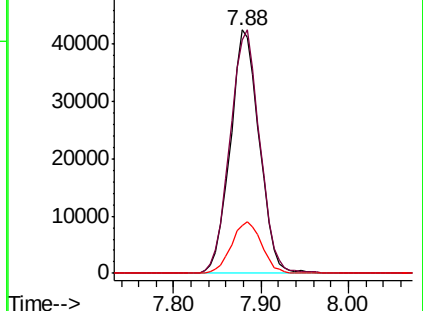
192 21.9 17.3 25.9



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: 5.446 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW012832.D

Acq: 09 Sep 2019 19:51

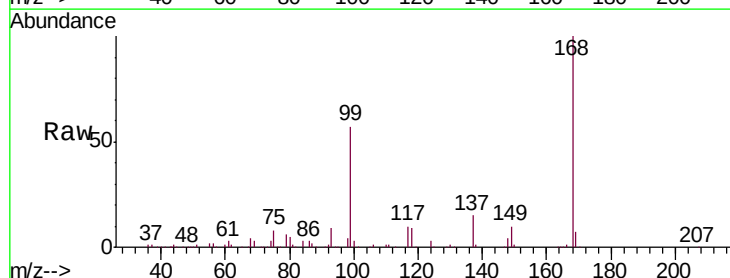
Tgt Ion: 75 Resp: 16362

Ion Ratio Lower Upper

75 100

110 9.1 15.9 47.7#

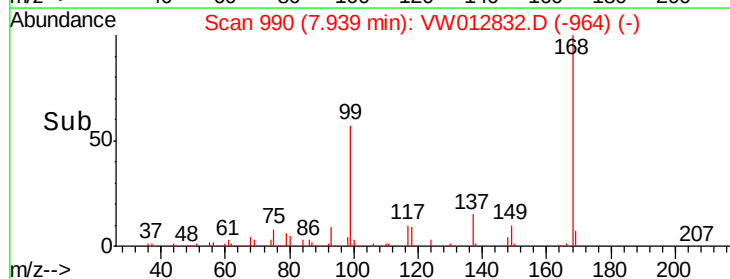
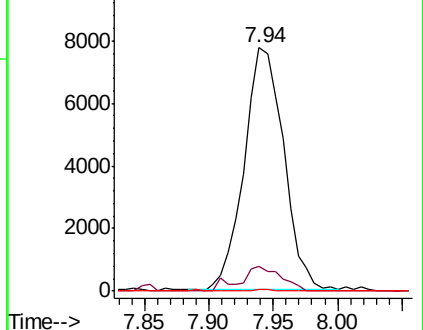
77 0.3 25.0 37.4#

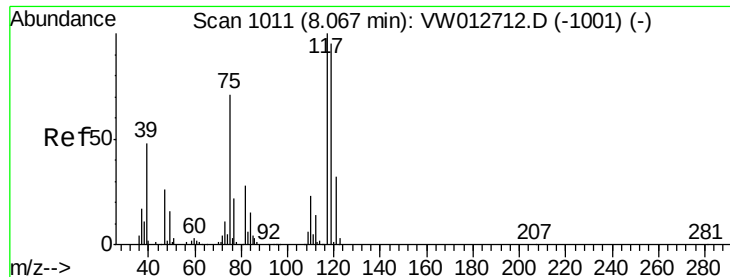


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 6.814 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012832.D

Acq: 09 Sep 2019 19:51

Instrument :

MSVOA_W

ClientSampleId :

TP-15-S2

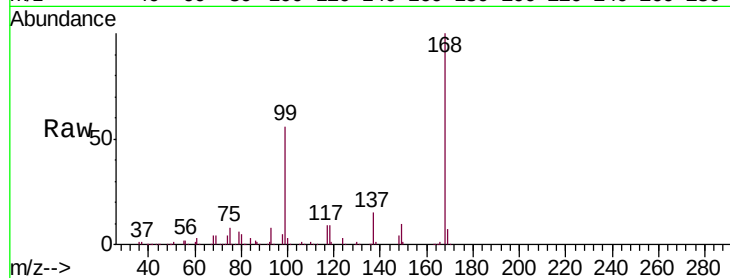
Tgt Ion:117 Resp: 20180

Ion Ratio Lower Upper

117 100

119 6.9 76.2 114.2#

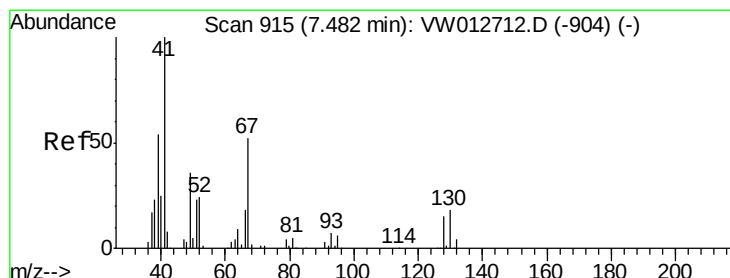
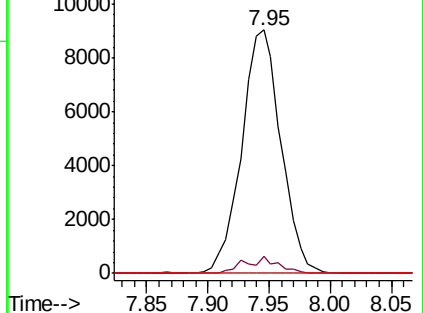
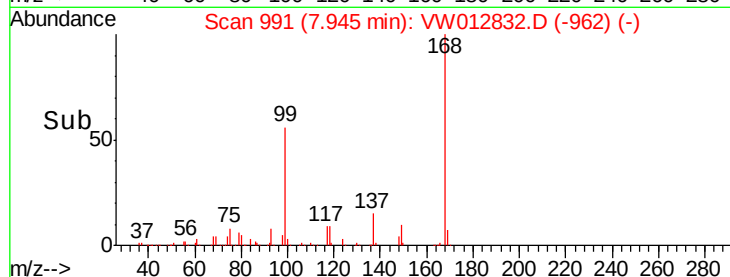
121 0.0 25.4 38.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 3.908 ug/l

RT: 7.51 min Scan# 919

Delta R.T. 0.02 min

Lab File: VW012832.D

Acq: 09 Sep 2019 19:51

Tgt Ion: 41 Resp: 97

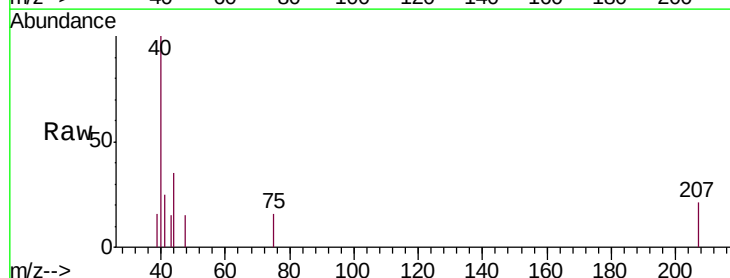
Ion Ratio Lower Upper

41 100

39 112.4 47.5 71.3#

67 0.0 45.1 67.7#

52 0.0 20.2 30.2#

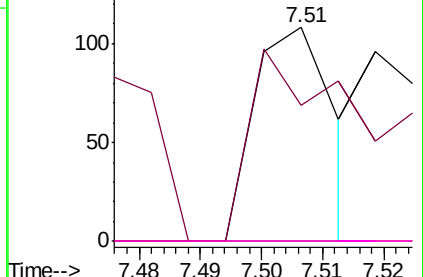
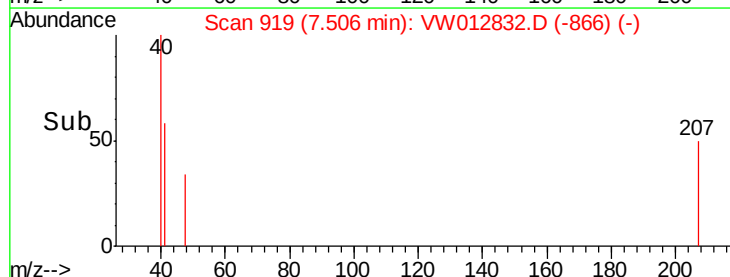


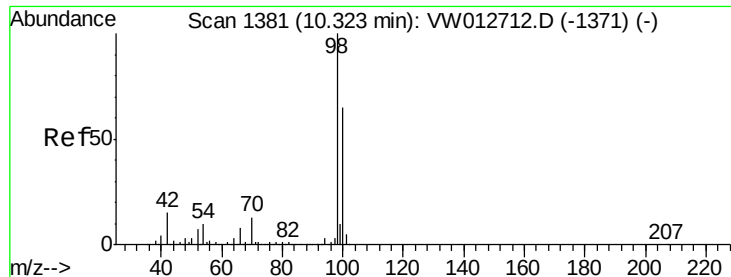
Abundance Ion 41.00 (40.70 to 41.70): VW

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: 48.136 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW012832.D

Acq: 09 Sep 2019 19:51

Instrument :

MSVOA_W

ClientSampleId :

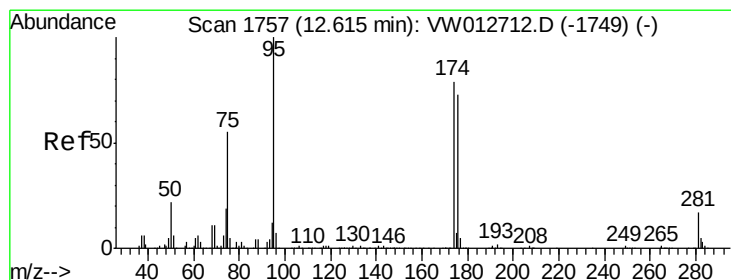
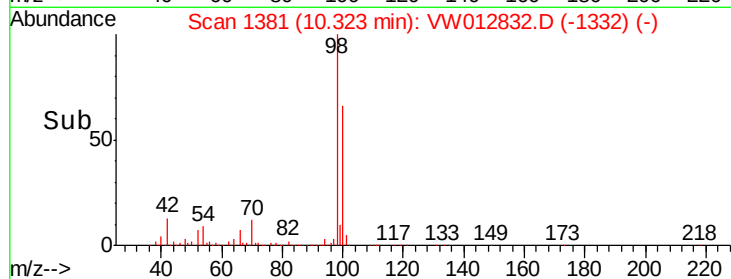
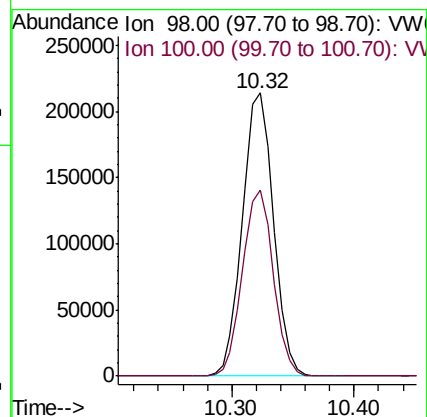
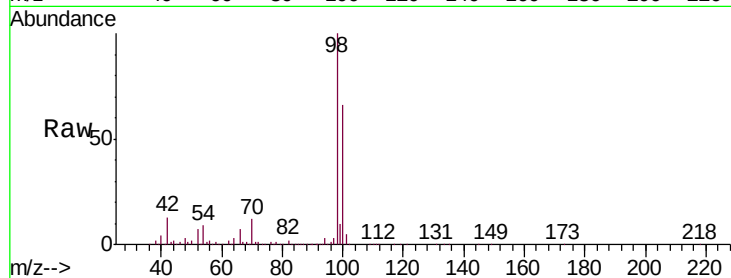
TP-15-S2

Tgt Ion: 98 Resp: 379098

Ion Ratio Lower Upper

98 100

100 65.2 52.2 78.4



#62

4-Bromofluorobenzene

Concen: 37.759 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW012832.D

Acq: 09 Sep 2019 19:51

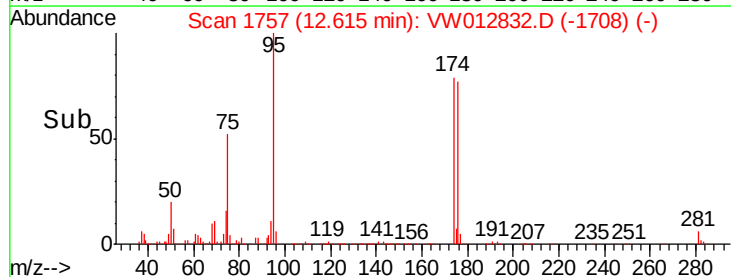
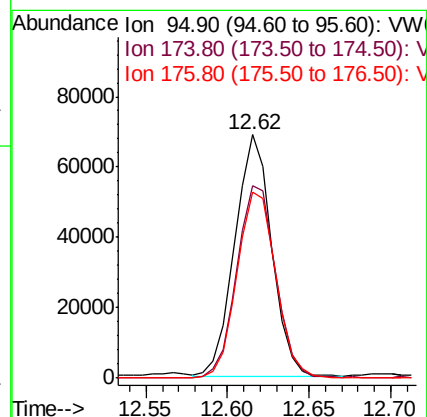
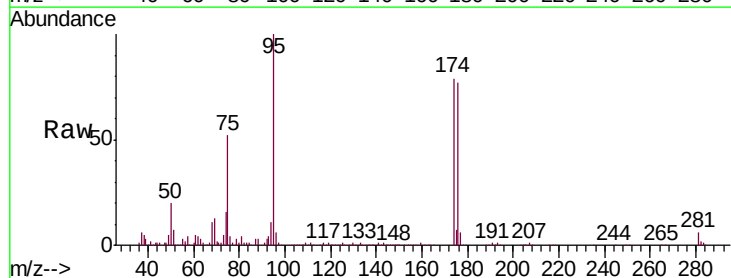
Tgt Ion: 95 Resp: 107956

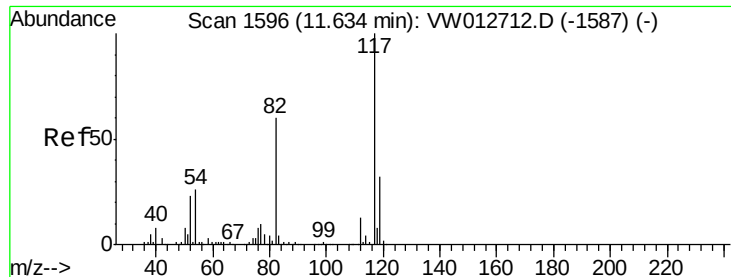
Ion Ratio Lower Upper

95 100

174 84.3 0.0 161.0

176 81.7 0.0 156.4

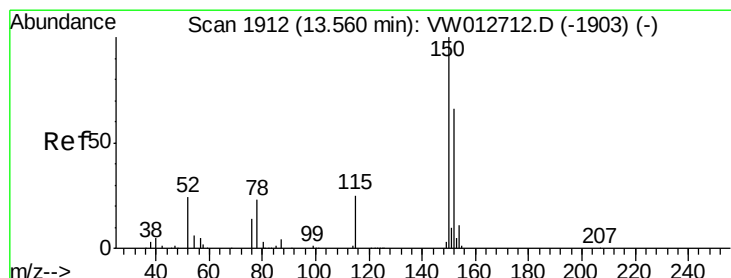
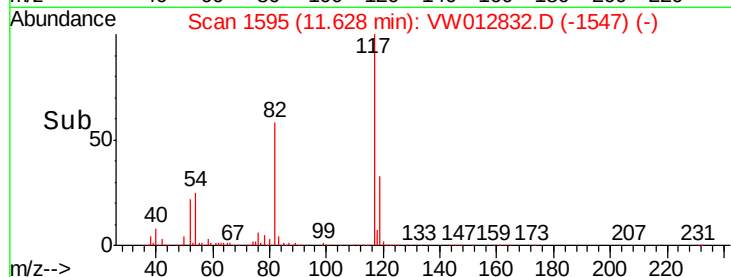
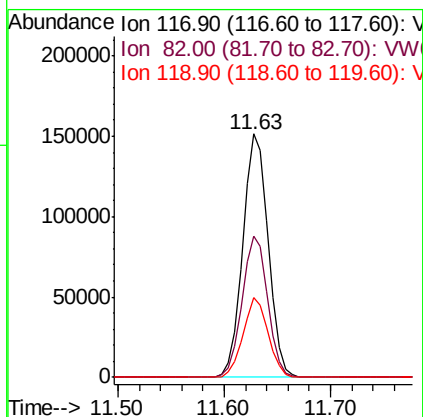
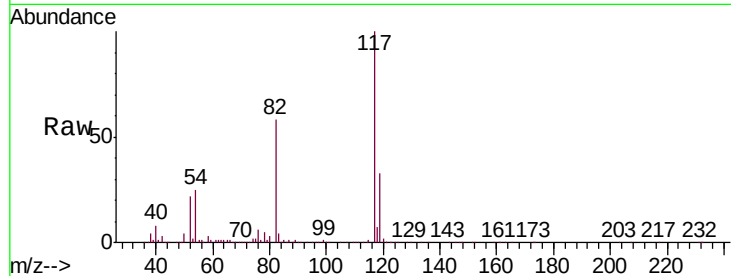




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW012832.D
Acq: 09 Sep 2019 19:51

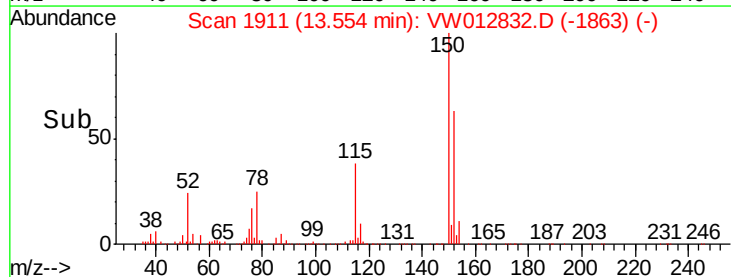
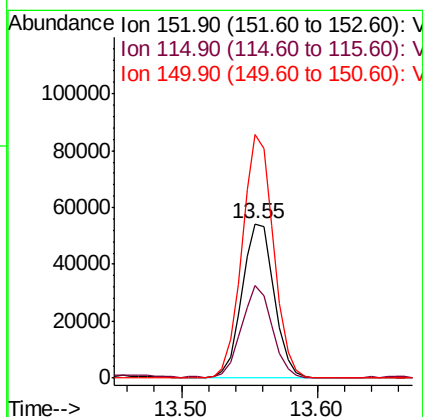
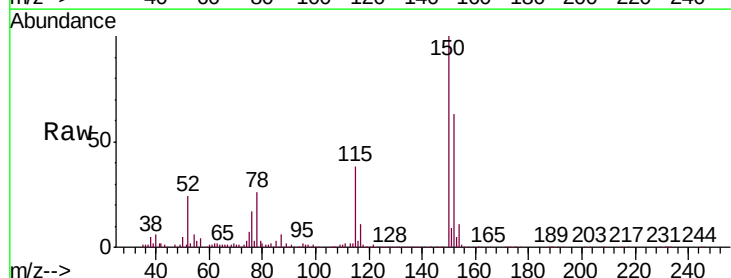
Instrument :
MSVOA_W
ClientSampleId :
TP-15-S2

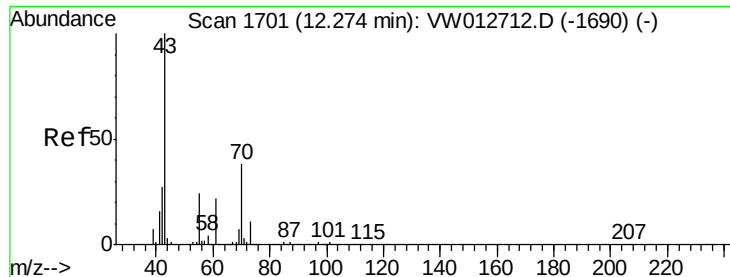
Tgt Ion:117 Resp: 253432
Ion Ratio Lower Upper
117 100
82 58.2 48.2 72.4
119 32.7 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.55 min Scan# 1911
Delta R.T. -0.01 min
Lab File: VW012832.D
Acq: 09 Sep 2019 19:51

Tgt Ion:152 Resp: 89303
Ion Ratio Lower Upper
152 100
115 56.5 30.0 90.1
150 154.1 0.0 349.0





#74

N-amyI acetate

Concen: 1.301 ug/l

RT: 12.24 min Scan# 1696

Delta R.T. -0.03 min

Lab File: VW012832.D

Acq: 09 Sep 2019 19:51

Instrument :

MSVOA_W

ClientSampled :

TP-15-S2

Tgt Ion: 43 Resp: 2644

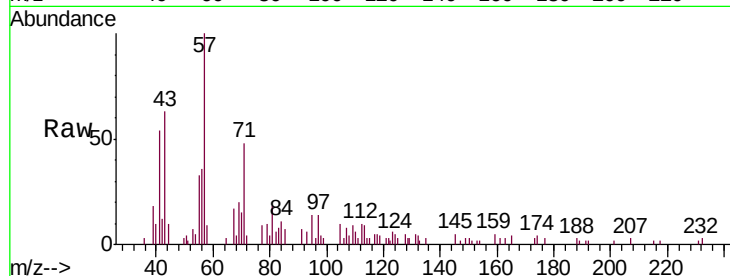
Ion Ratio Lower Upper

43 100

70 0.0 29.4 44.0#

55 0.0 18.6 27.8#

61 0.0 17.8 26.6#

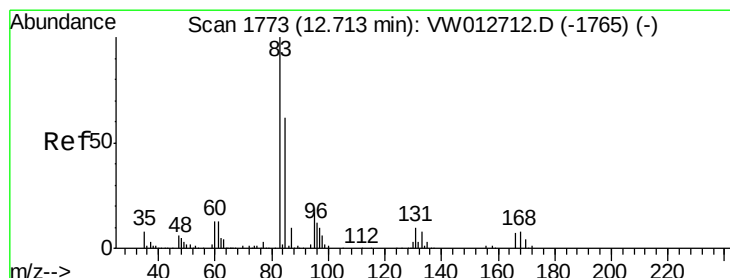
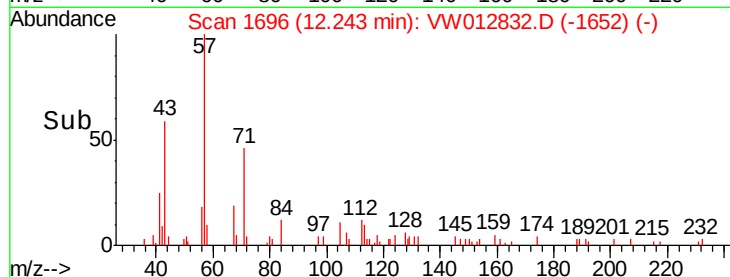
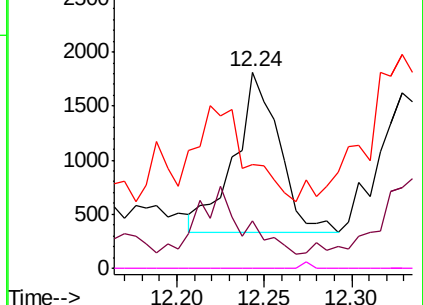


Abundance Ion 43.00 (42.70 to 43.70): VW

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



#75

1,1,2,2-Tetrachloroethane

Concen: 1.127 ug/l

RT: 12.68 min Scan# 1768

Delta R.T. -0.03 min

Lab File: VW012832.D

Acq: 09 Sep 2019 19:51

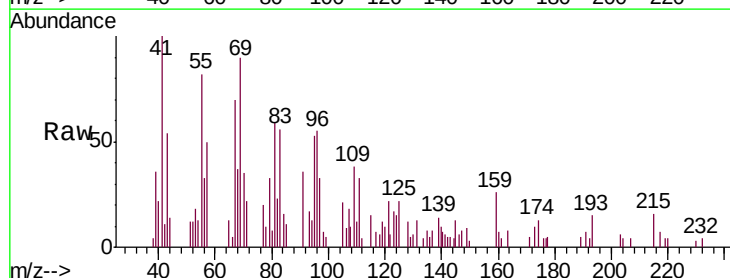
Tgt Ion: 83 Resp: 1450

Ion Ratio Lower Upper

83 100

131 19.4 5.1 15.4#

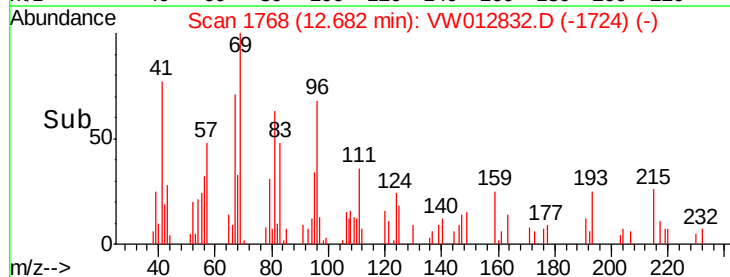
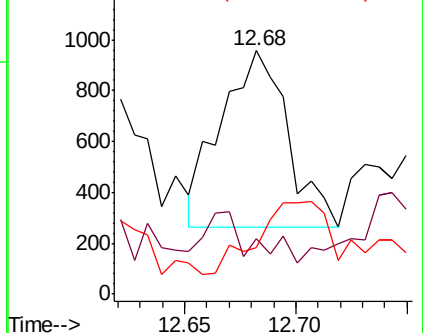
85 0.0 31.4 94.2#

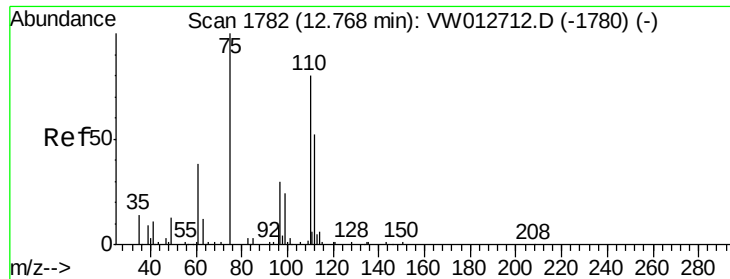


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW





#76

1,2,3-Trichloropropane

Concen: 61.566 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012832.D

Acq: 09 Sep 2019 19:51

Instrument :

MSVOA_W

ClientSampleId :

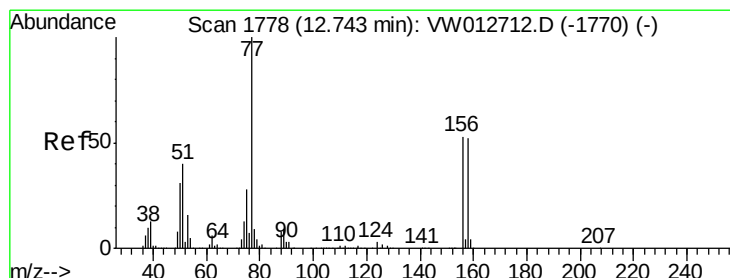
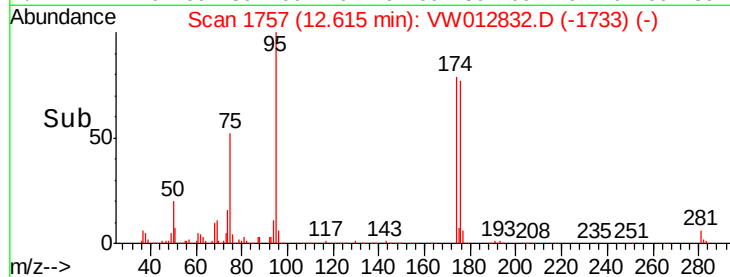
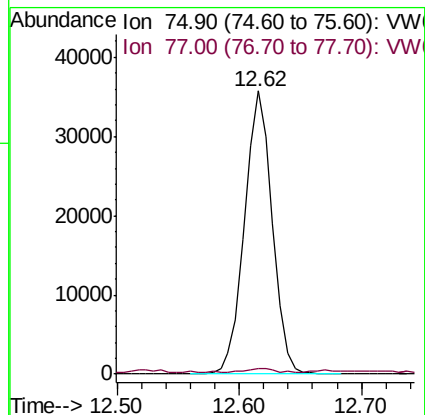
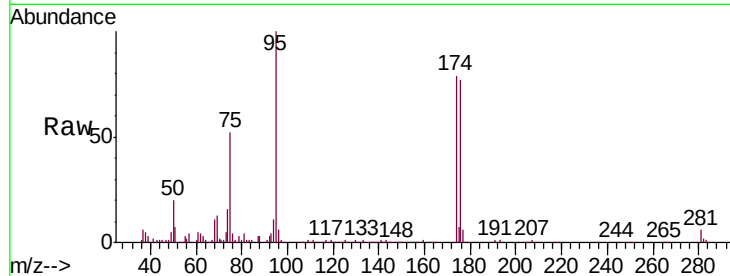
TP-15-S2

Tgt Ion: 75 Resp: 56220

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



#77

Bromobenzene

Concen: 20.073 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. 0.15 min

Lab File: VW012832.D

Acq: 09 Sep 2019 19:51

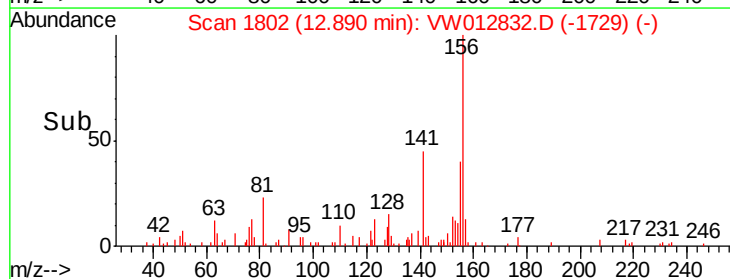
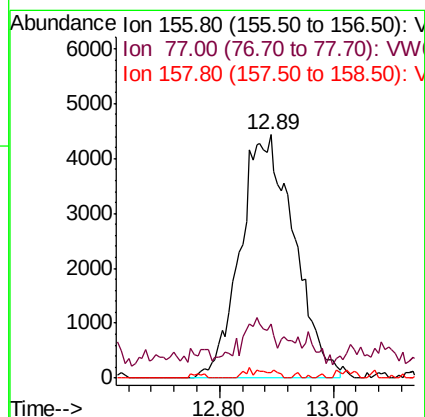
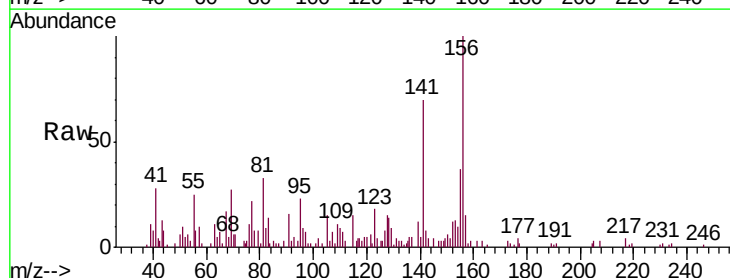
Tgt Ion: 156 Resp: 29129

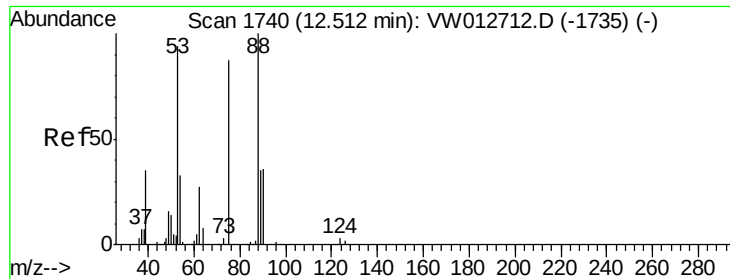
Ion Ratio Lower Upper

156 100

77 0.0 102.3 306.9#

158 0.0 48.9 146.8#





#81

trans-1,4-Dichloro-2-butene

Concen: 130.217 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012832.D

Acq: 09 Sep 2019 19:51

Instrument :

MSVOA_W

ClientSampleId :

TP-15-S2

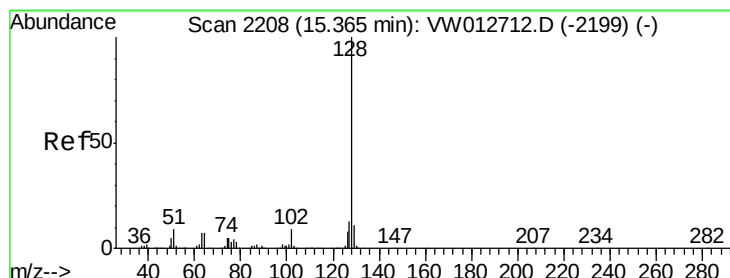
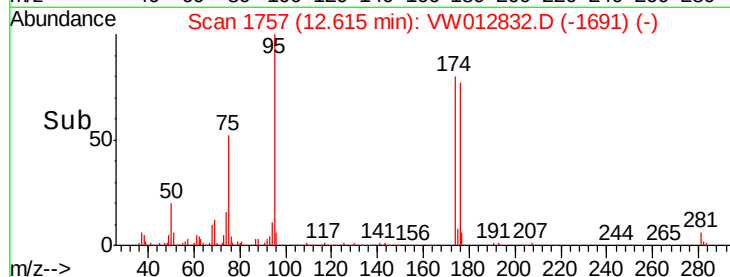
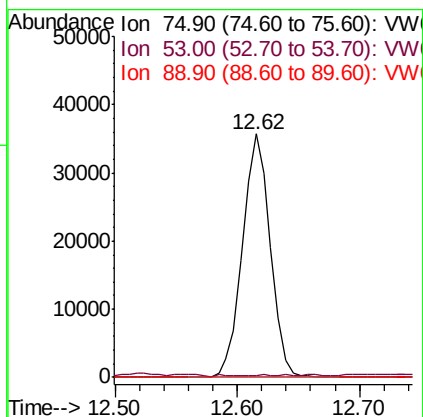
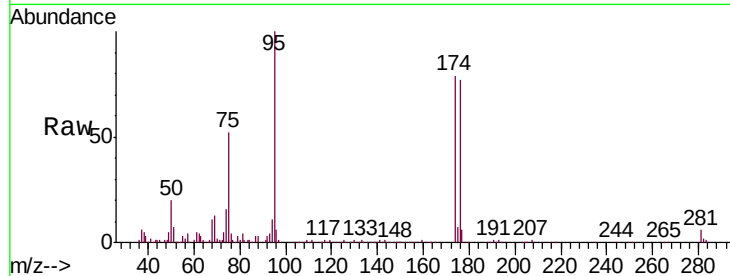
Tgt Ion: 75 Resp: 56220

Ion Ratio Lower Upper

75 100

53 0.2 87.6 131.4#

89 0.2 35.5 53.3#



#95

Naphthalene

Concen: 4.754 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW012832.D

Acq: 09 Sep 2019 19:51

Tgt Ion: 128 Resp: 1294

Ion Ratio Lower Upper

128 100

127 12.5 10.7 16.1

129 5.6 8.7 13.1#

