

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091619\
 Data File : VW013048.D
 Acq On : 16 Sep 2019 18:08
 Operator : SY/VA
 Sample : K4819-02
 Misc : 5.58G/5ML/MSVOA_W/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-2-S2(3.5-4)

Quant Time: Sep 17 07:22:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091419S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 13 17:26:01 2019
 Response via : Initial Calibration

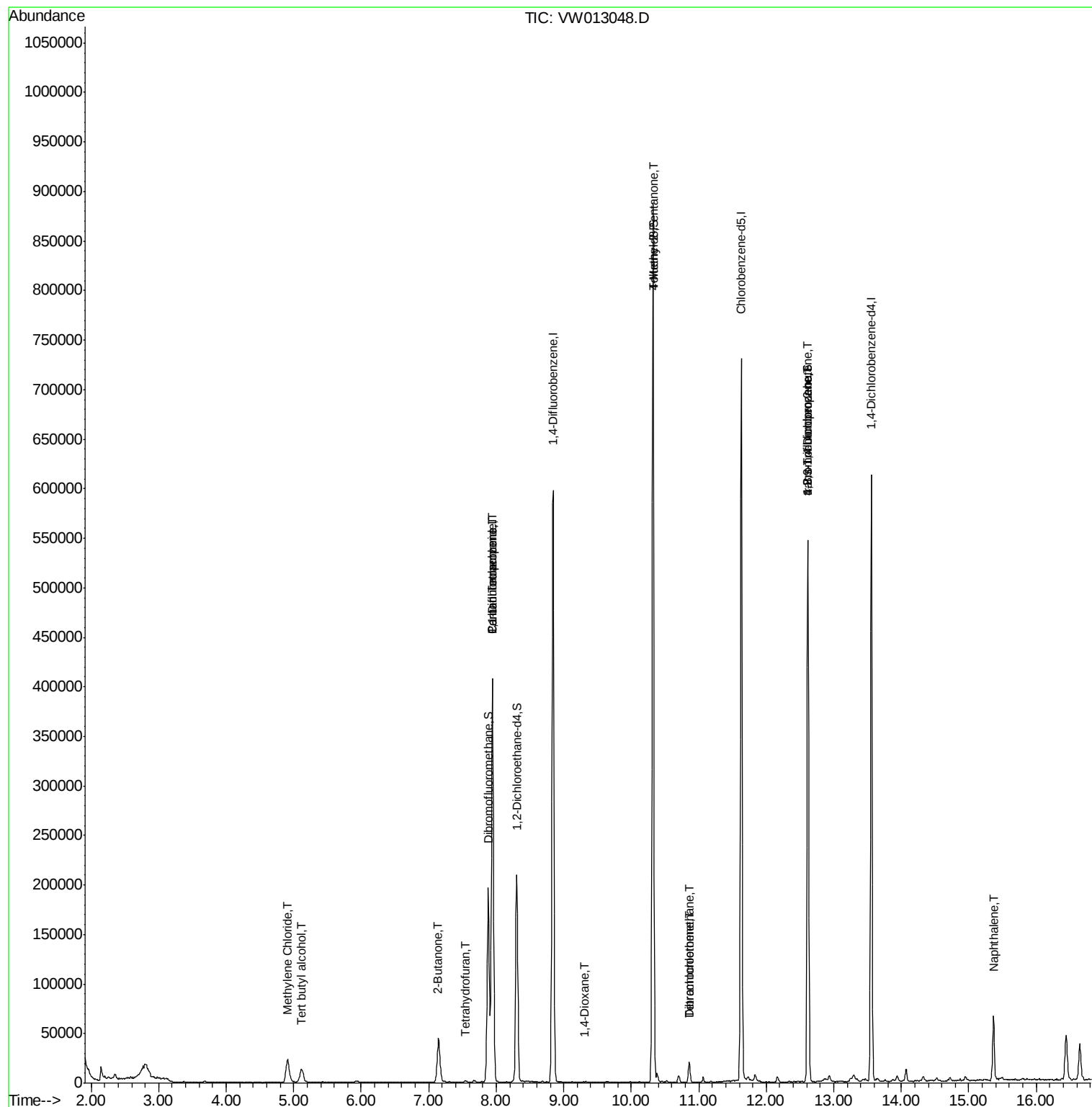
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	319918	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	498135	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	403140	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	163173	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	166204	56.25	ug/l	0.00
Spiked Amount 50.000			Recovery	=	112.50%	
35) Dibromofluoromethane	7.88	113	139408	51.58	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.16%	
50) Toluene-d8	10.32	98	577853	54.63	ug/l	0.00
Spiked Amount 50.000			Recovery	=	109.26%	
62) 4-Bromofluorobenzene	12.62	95	179282	47.14	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.28%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.00	85	79	Below Cal	#	44
3) Chloromethane	2.20	50	309	Below Cal	#	10
11) Tert butyl alcohol	5.12	59	12756	46.521	ug/l #	72
13) Acrolein	3.89	56	42	Below Cal	#	15
16) Acetone	4.10	43	205	Below Cal	#	47
20) Methylene Chloride	4.91	84	18859	3.028	ug/l	97
25) 2-Butanone	7.15	43	2615	2.783	ug/l #	88
26) 2,2-Dichloropropane	7.15	77	3444	Below Cal	#	55
29) Tetrahydrofuran	7.54	42	1189	2.221	ug/l #	80
31) Cyclohexane	7.94	56	6131	Below Cal	#	1
36) 1,1-Dichloropropene	7.95	75	23933	6.013	ug/l #	52
38) Carbon Tetrachloride	7.95	117	30302	7.428	ug/l #	15
49) 1,4-Dioxane	9.30	88	41	1.730	ug/l #	1
51) 4-Methyl-2-Pentanone	10.32	43	3266	1.559	ug/l #	1
60) Dibromochloromethane	10.86	129	3543	1.360	ug/l #	12
64) Tetrachloroethene	10.87	164	4396	1.833	ug/l	90
76) 1,2,3-Trichloropropane	12.62	75	87493	61.215	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	87493	138.866	ug/l #	7
95) Naphthalene	15.36	128	53598	10.370	ug/l	98

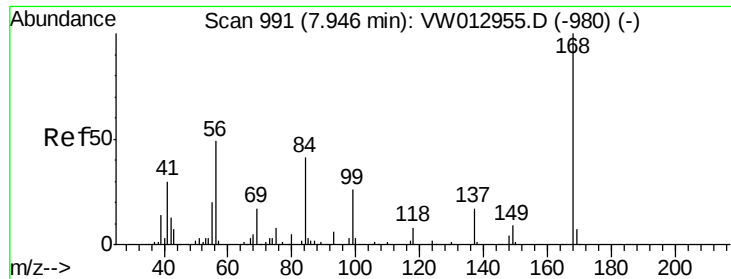
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW013048.D

Acq: 16 Sep 2019 18:08

Instrument :

MSVOA_W

ClientSampleId :

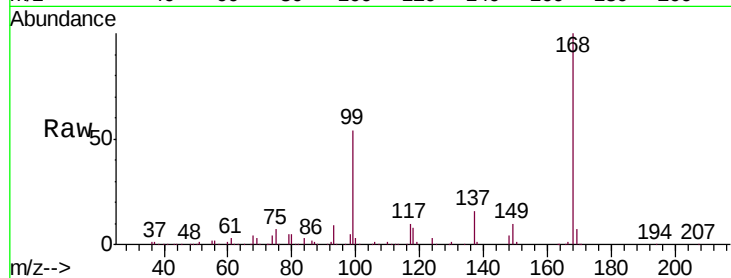
TP-2-S2(3.5-4)

Tgt Ion:168 Resp: 319918

Ion Ratio Lower Upper

168 100

99 53.7 46.2 69.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

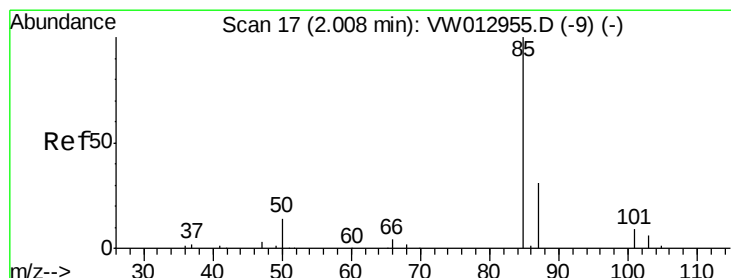
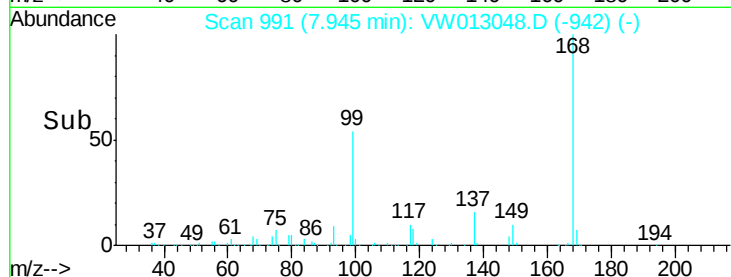
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 15

Delta R.T. -0.01 min

Lab File: VW013048.D

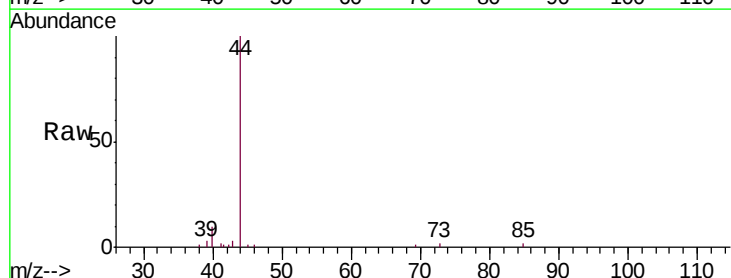
Acq: 16 Sep 2019 18:08

Tgt Ion: 85 Resp: 79

Ion Ratio Lower Upper

85 100

87 0.0 15.4 46.4#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

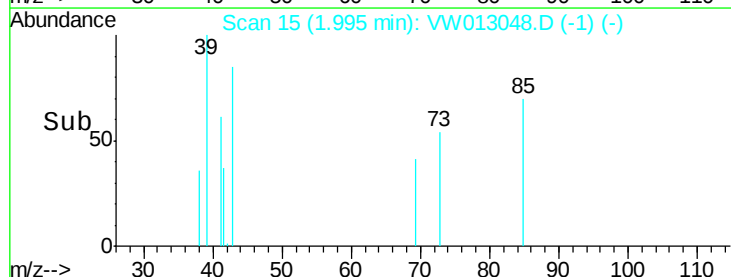
150

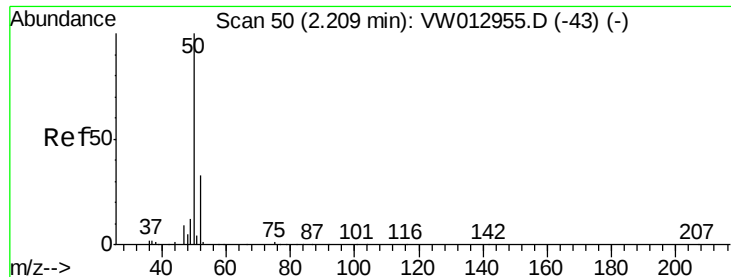
100

50

0

Time-->





#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW013048.D

Acq: 16 Sep 2019 18:08

Instrument :

MSVOA_W

ClientSampled :

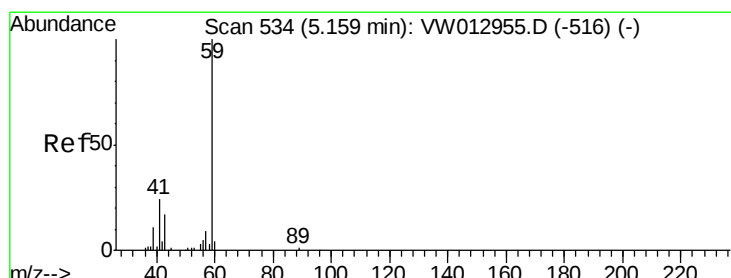
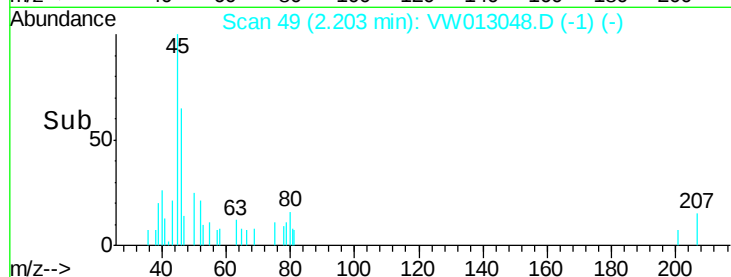
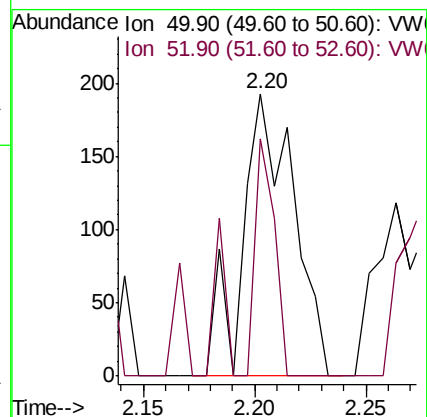
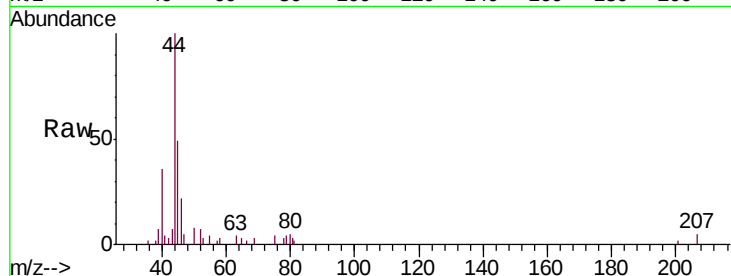
TP-2-S2(3.5-4)

Tgt Ion: 50 Resp: 309

Ion Ratio Lower Upper

50 100

52 83.9 26.6 39.8#



#11

Tert butyl alcohol

Concen: 46.521 ug/l

RT: 5.12 min Scan# 527

Delta R.T. -0.04 min

Lab File: VW013048.D

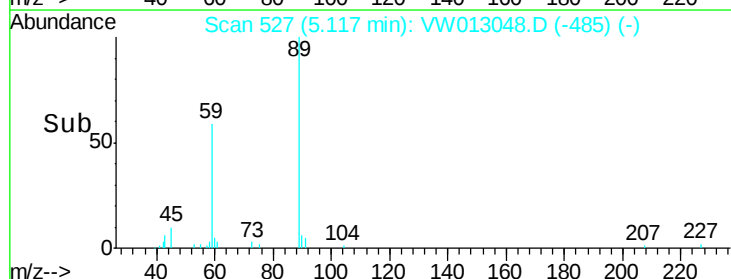
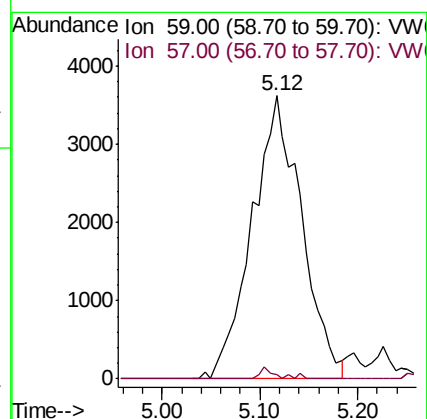
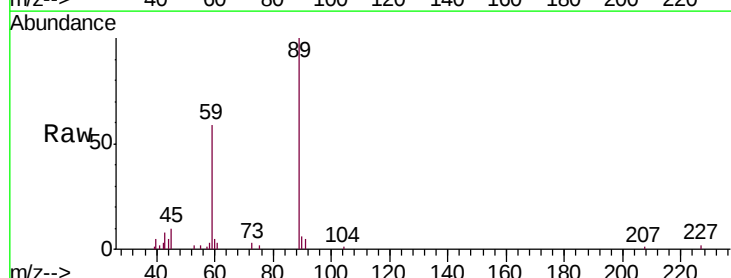
Acq: 16 Sep 2019 18:08

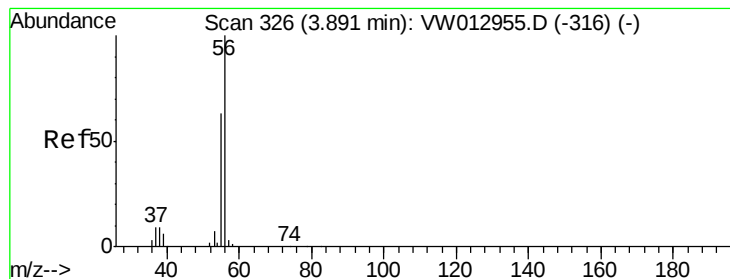
Tgt Ion: 59 Resp: 12756

Ion Ratio Lower Upper

59 100

57 0.1 8.5 12.7#





#13

Acrolein

Concen: Below Cal

RT: 3.89 min Scan# 325

Delta R.T. -0.01 min

Lab File: VW013048.D

Acq: 16 Sep 2019 18:08

Instrument :

MSVOA_W

ClientSampleId :

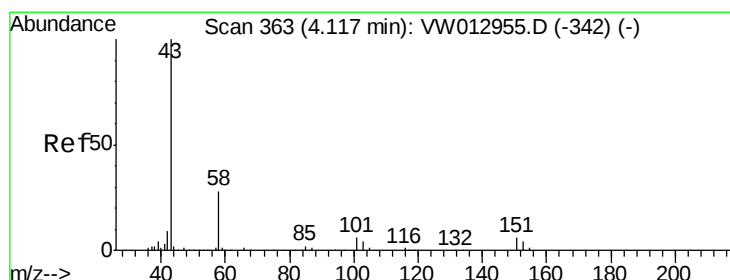
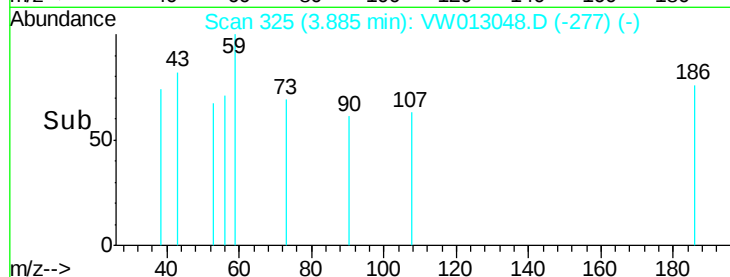
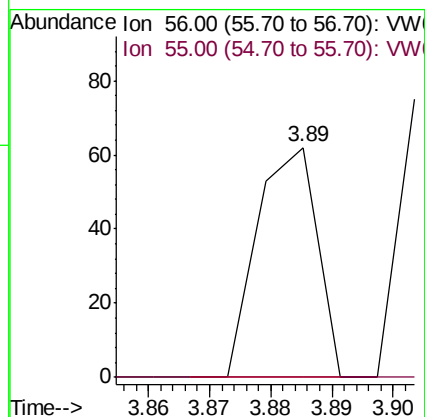
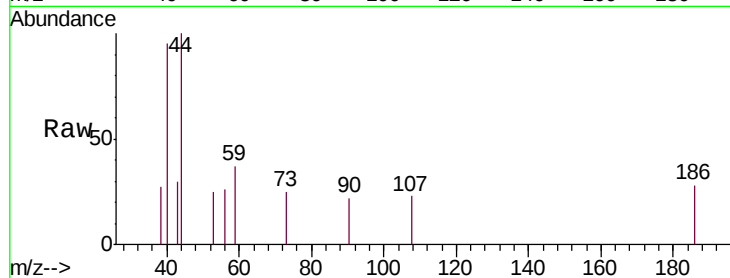
TP-2-S2(3.5-4)

Tgt Ion: 56 Resp: 42

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.8#



#16

Acetone

Concen: Below Cal

RT: 4.10 min Scan# 361

Delta R.T. -0.01 min

Lab File: VW013048.D

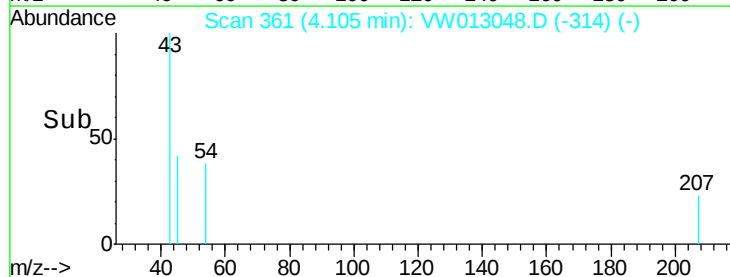
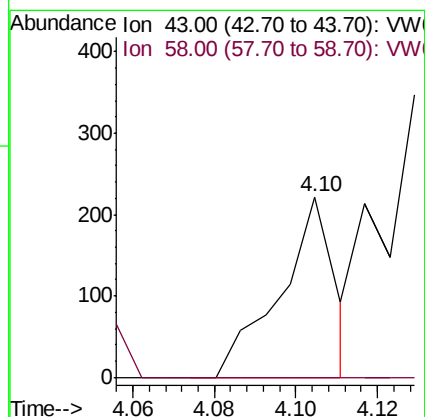
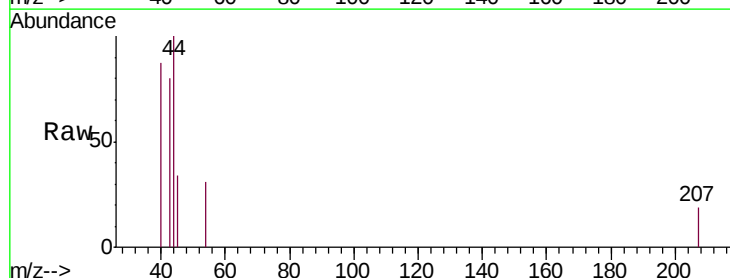
Acq: 16 Sep 2019 18:08

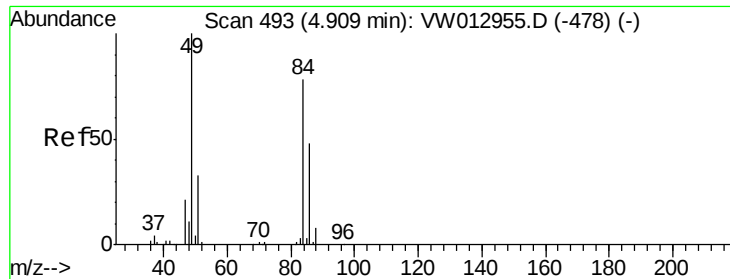
Tgt Ion: 43 Resp: 205

Ion Ratio Lower Upper

43 100

58 0.0 22.3 33.5#

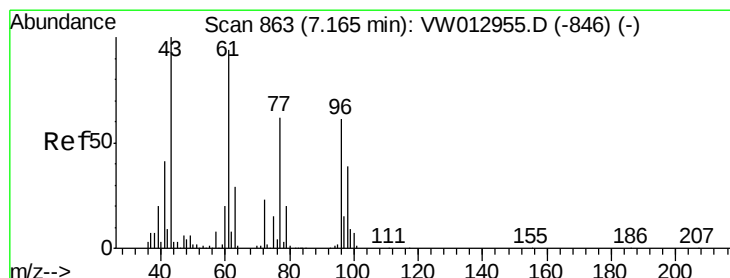
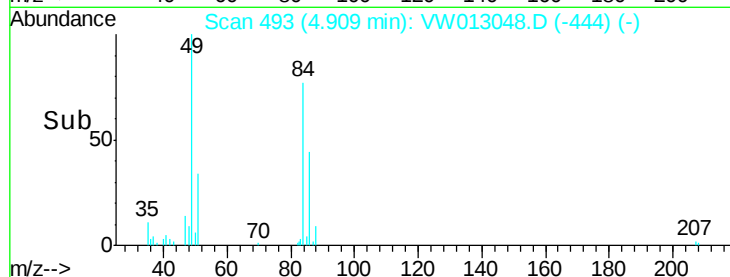
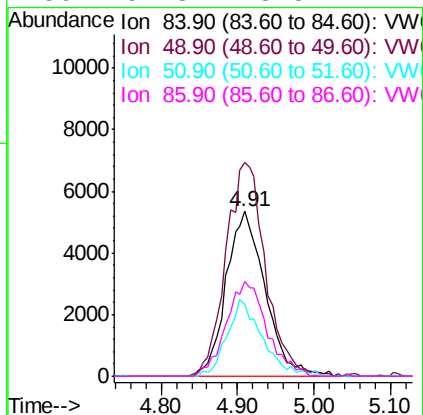
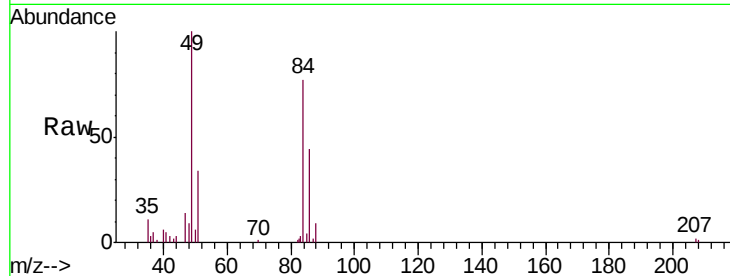




#20
Methylene Chloride
Concen: 3.028 ug/l
RT: 4.91 min Scan# 493
Delta R.T. 0.00 min
Lab File: VW013048.D
Acq: 16 Sep 2019 18:08

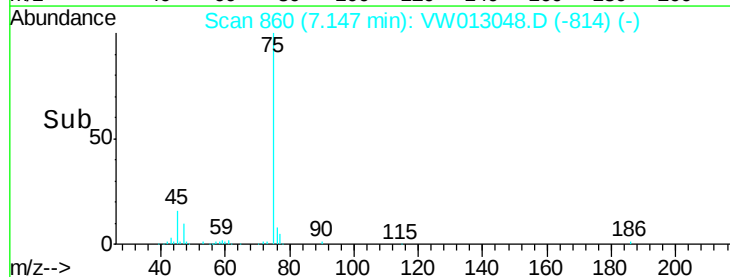
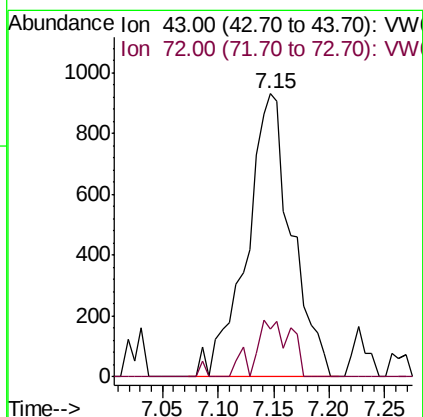
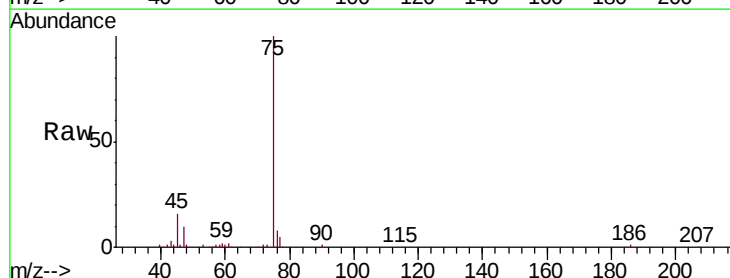
Instrument :
MSVOA_W
ClientSampleId :
TP-2-S2(3.5-4)

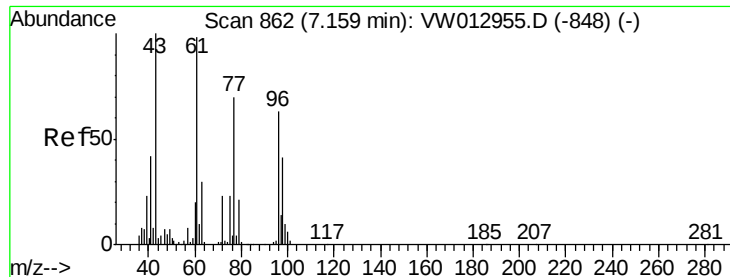
Tgt Ion:	84	Resp:	18859
Ion	Ratio	Lower	Upper
84	100		
49	129.5	102.0	153.0
51	43.8	34.0	51.0
86	57.3	48.5	72.7



#25
2-Butanone
Concen: 2.783 ug/l
RT: 7.15 min Scan# 860
Delta R.T. -0.02 min
Lab File: VW013048.D
Acq: 16 Sep 2019 18:08

Tgt Ion:	43	Resp:	2615
Ion	Ratio	Lower	Upper
43	100		
72	16.9	18.2	27.4#

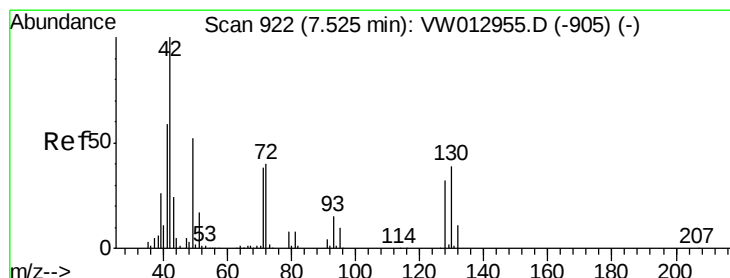
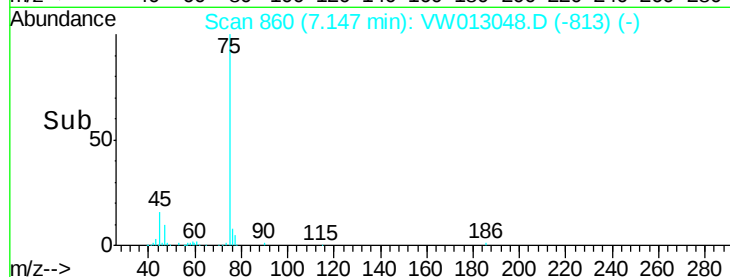
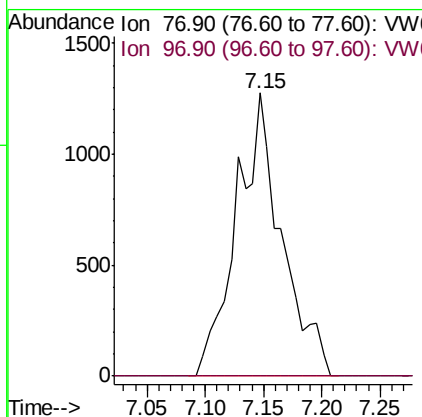
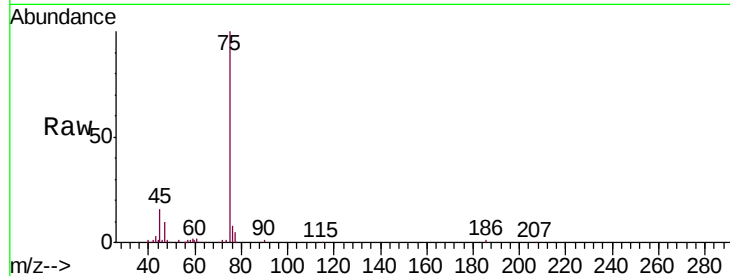




#26
 2,2-Dichloropropane
 Concen: Below Cal
 RT: 7.15 min Scan# 860
 Delta R.T. -0.01 min
 Lab File: VW013048.D
 Acq: 16 Sep 2019 18:08

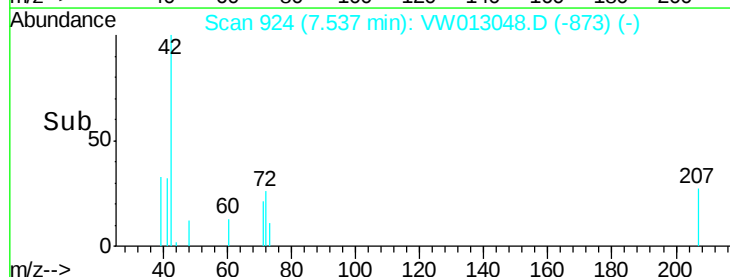
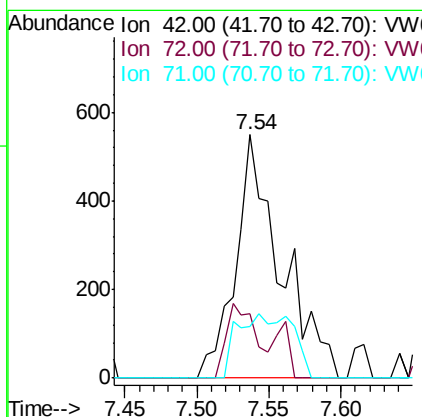
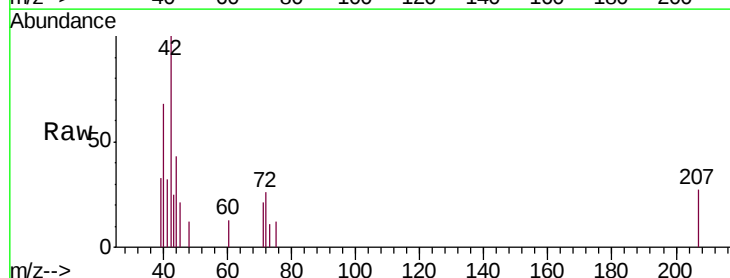
Instrument :
 MSVOA_W
 ClientSampleId :
 TP-2-S2(3.5-4)

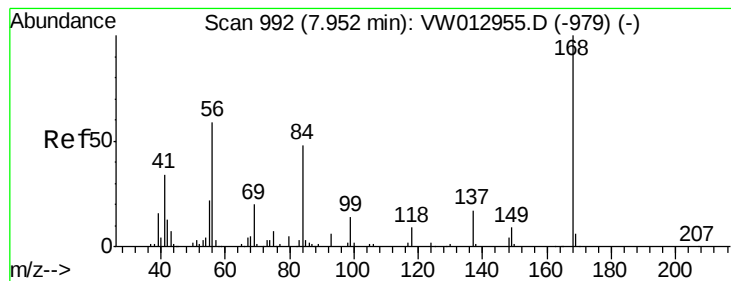
Tgt Ion: 77 Resp: 3444
 Ion Ratio Lower Upper
 77 100
 97 0.0 10.7 32.1#



#29
 Tetrahydrofuran
 Concen: 2.221 ug/l
 RT: 7.54 min Scan# 924
 Delta R.T. 0.01 min
 Lab File: VW013048.D
 Acq: 16 Sep 2019 18:08

Tgt Ion: 42 Resp: 1189
 Ion Ratio Lower Upper
 42 100
 72 20.3 31.4 47.0#
 71 32.7 29.8 44.8





#31

Cyclohexane

Concen: Below Cal

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW013048.D

Acq: 16 Sep 2019 18:08

Instrument :

MSVOA_W

ClientSampleId :

TP-2-S2(3.5-4)

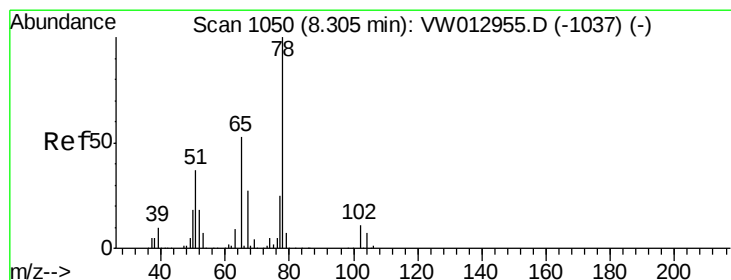
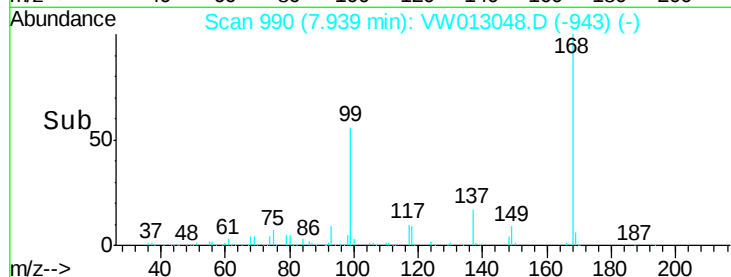
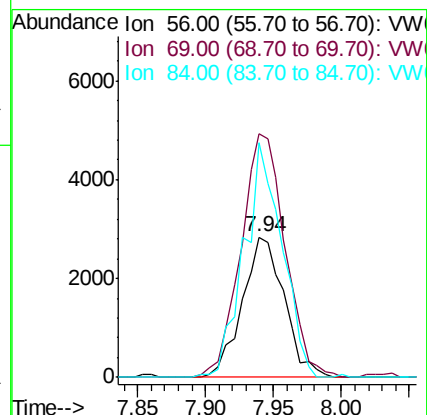
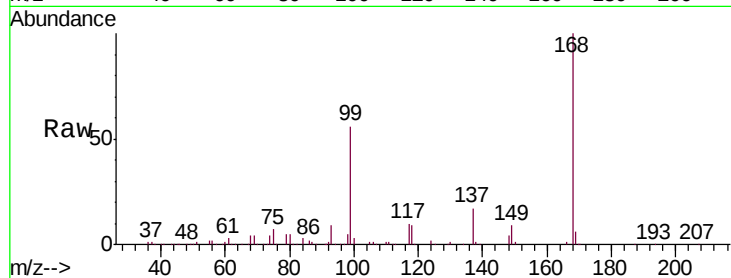
Tgt Ion: 56 Resp: 6131

Ion Ratio Lower Upper

56 100

69 173.5 27.0 40.6#

84 167.3 66.2 99.2#



#33

1,2-Dichloroethane-d4

Concen: 56.251 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW013048.D

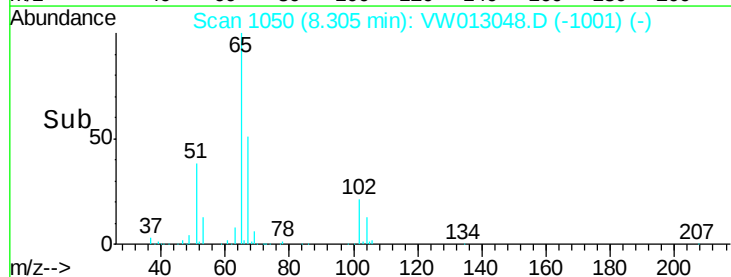
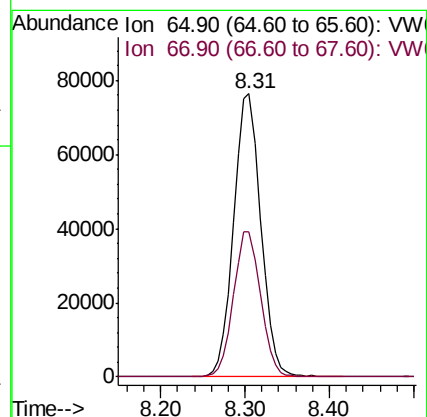
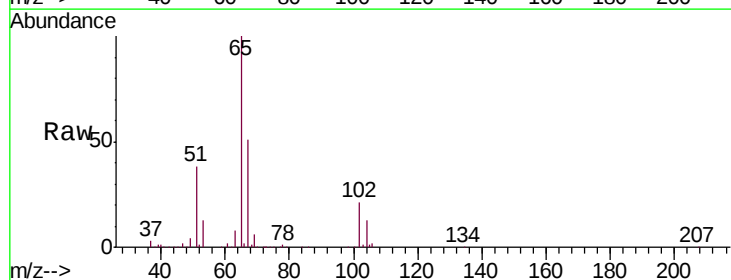
Acq: 16 Sep 2019 18:08

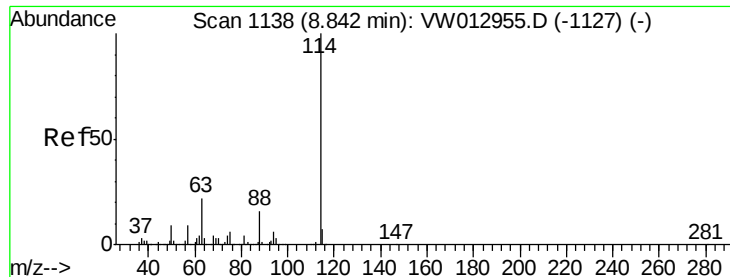
Tgt Ion: 65 Resp: 166204

Ion Ratio Lower Upper

65 100

67 51.3 0.0 101.2

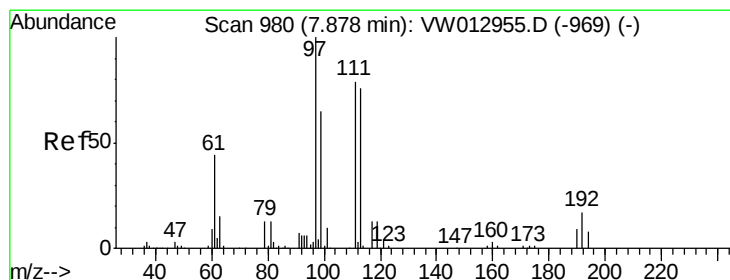
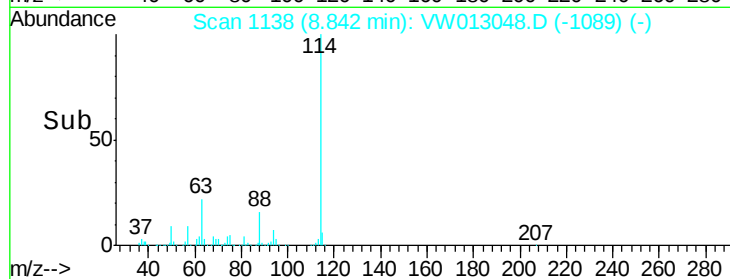
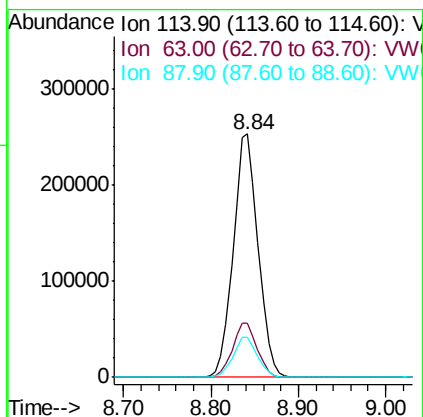
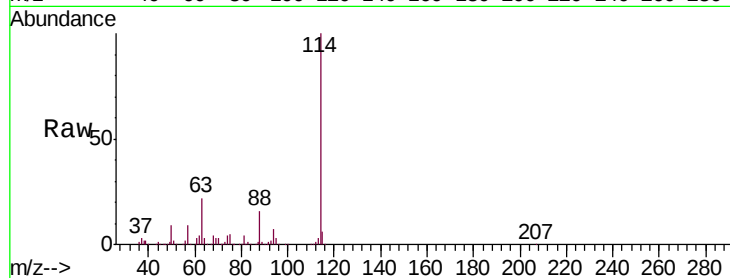




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW013048.D
 Acq: 16 Sep 2019 18:08

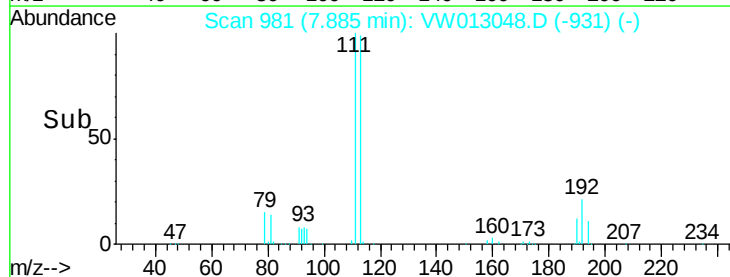
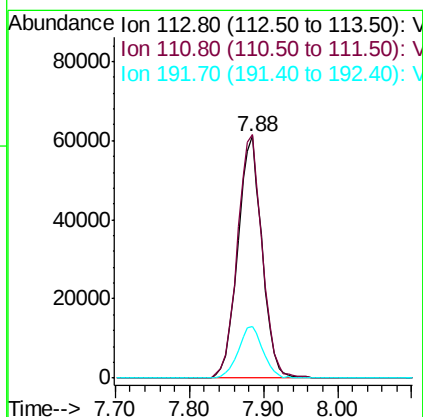
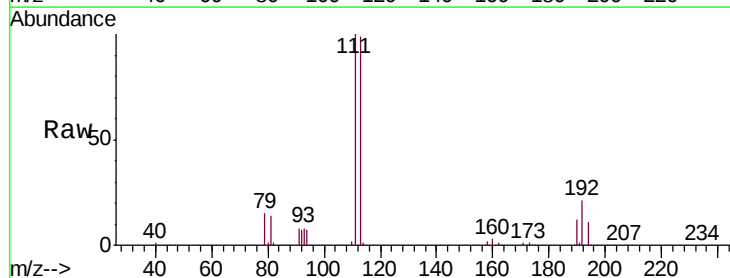
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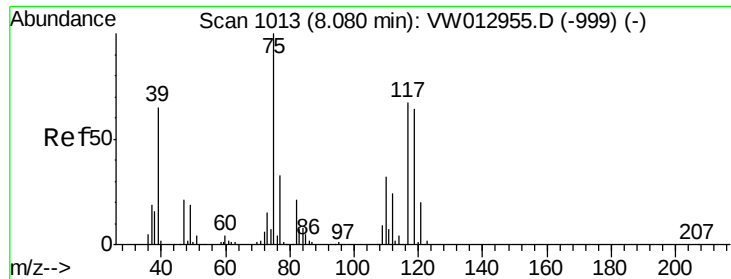
Tgt Ion:	114	Resp:	498135
Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	43.4
88	16.4	0.0	31.6



#35
 Dibromofluoromethane
 Concen: 51.576 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.01 min
 Lab File: VW013048.D
 Acq: 16 Sep 2019 18:08

Tgt Ion:	113	Resp:	139408
Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.8	124.2
192	21.7	17.8	26.8

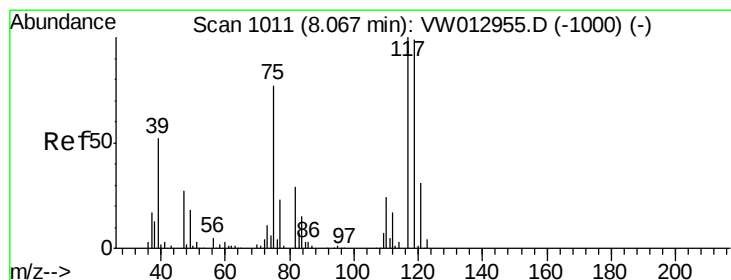
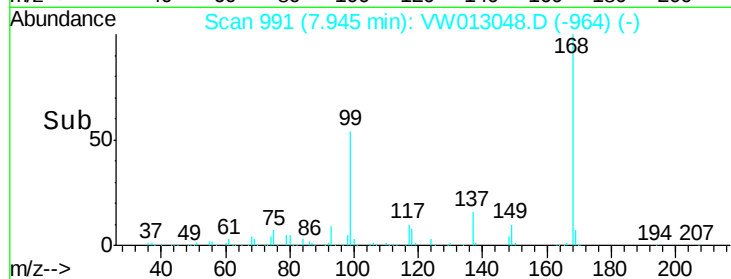
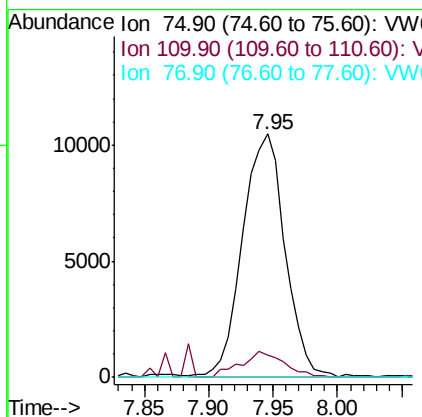
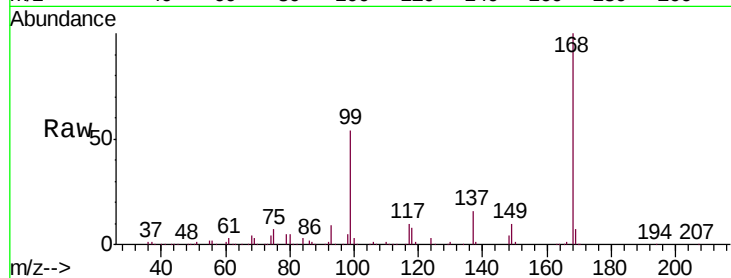




#36
 1,1-Dichloropropene
 Concen: 6.013 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW013048.D
 Acq: 16 Sep 2019 18:08

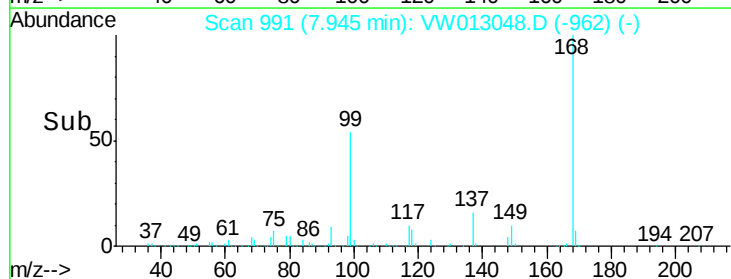
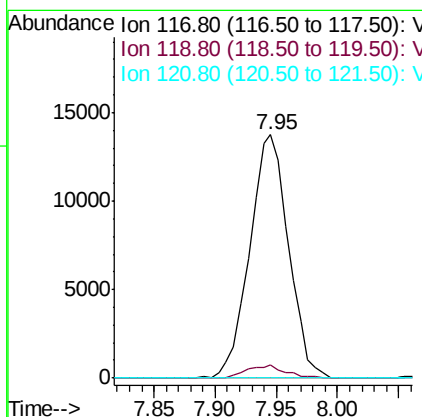
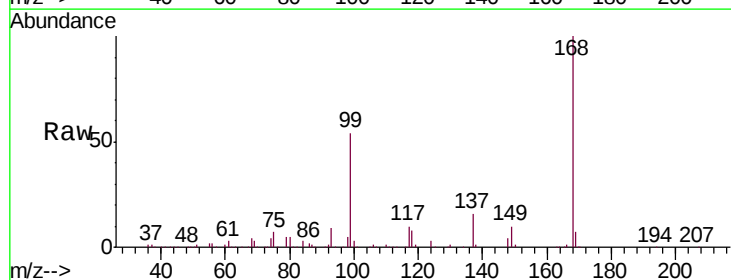
Instrument :
 MSVOA_W
 ClientSampleId :
 TP-2-S2(3.5-4)

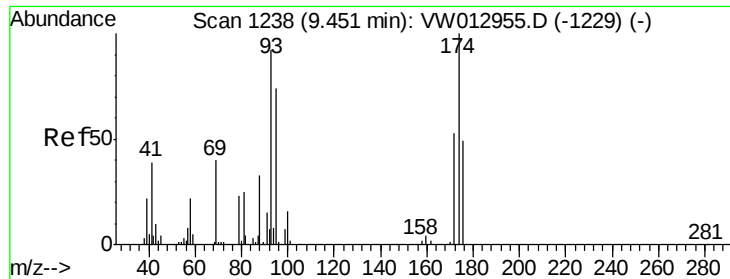
Tgt Ion: 75 Resp: 23933
 Ion Ratio Lower Upper
 75 100
 110 11.0 16.4 49.1#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 7.428 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW013048.D
 Acq: 16 Sep 2019 18:08

Tgt Ion: 117 Resp: 30302
 Ion Ratio Lower Upper
 117 100
 119 5.2 79.4 119.0#
 121 0.0 24.6 36.8#





#49

1,4-Dioxane

Concen: 1.730 ug/l

RT: 9.30 min Scan# 1214

Delta R.T. -0.15 min

Lab File: VW013048.D

Acq: 16 Sep 2019 18:08

Instrument :

MSVOA_W

ClientSampleId :

TP-2-S2(3.5-4)

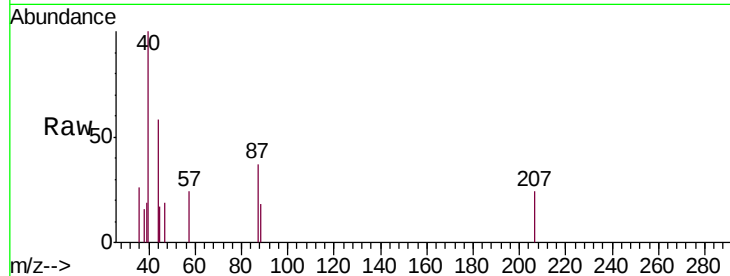
Tgt Ion: 88 Resp: 41

Ion Ratio Lower Upper

88 100

43 473.2 31.3 46.9#

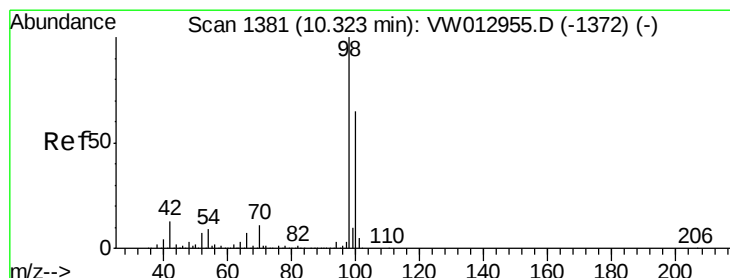
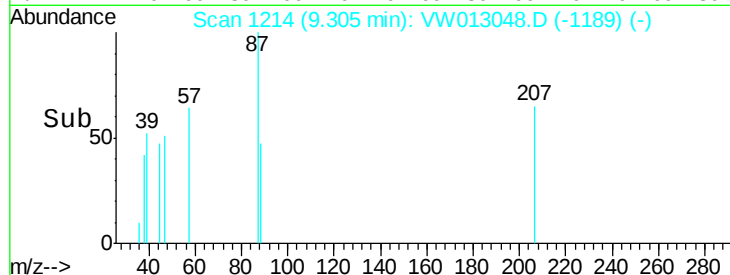
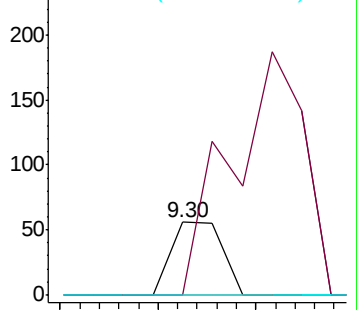
58 0.0 60.2 90.2#



Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 54.633 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW013048.D

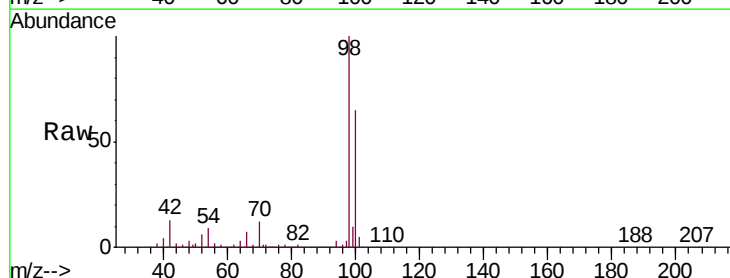
Acq: 16 Sep 2019 18:08

Tgt Ion: 98 Resp: 577853

Ion Ratio Lower Upper

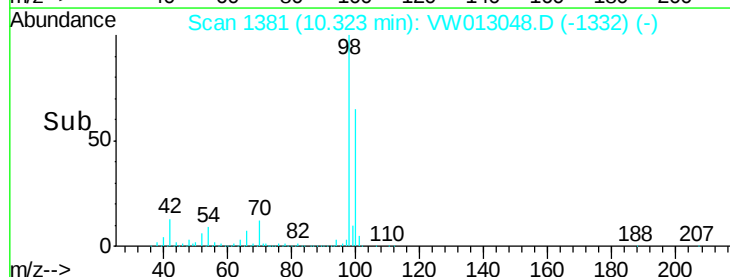
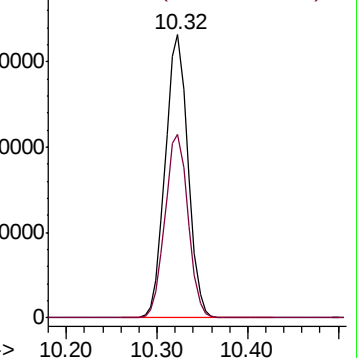
98 100

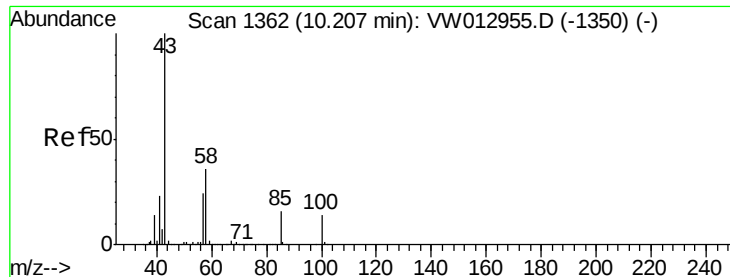
100 66.0 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 1.559 ug/l

RT: 10.32 min Scan# 1380

Delta R.T. 0.11 min

Lab File: VW013048.D

Acq: 16 Sep 2019 18:08

Instrument :

MSVOA_W

ClientSampleId :

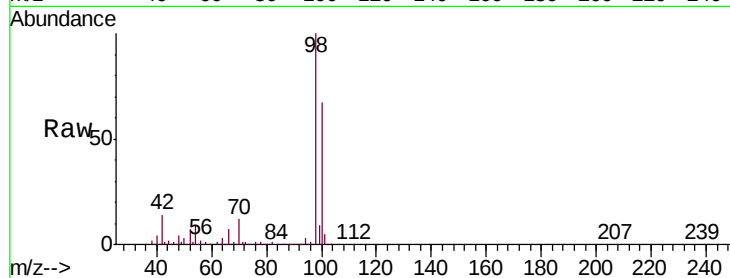
TP-2-S2(3.5-4)

Tgt Ion: 43 Resp: 3266

Ion Ratio Lower Upper

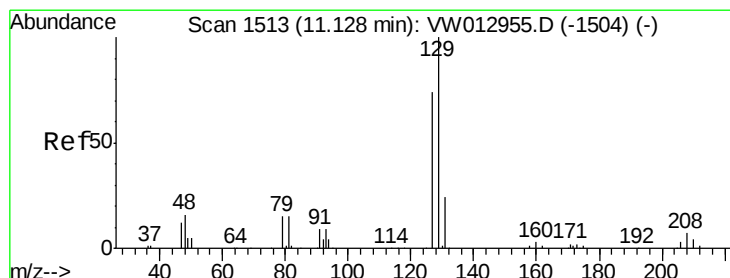
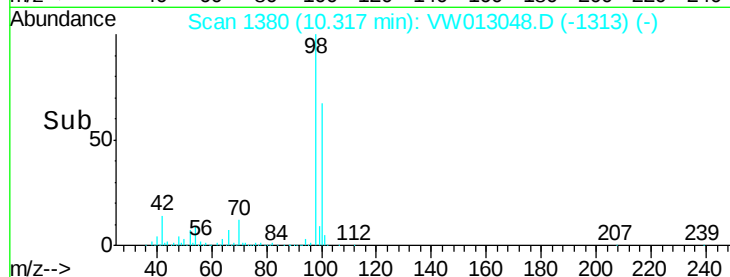
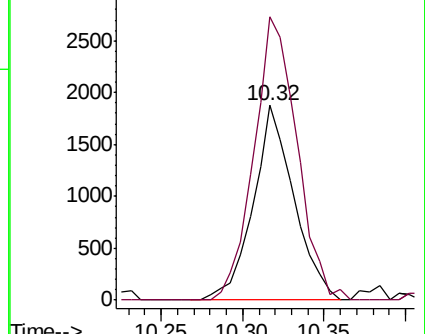
43 100

58 153.5 29.5 44.3#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#60

Dibromochloromethane

Concen: 1.360 ug/l

RT: 10.86 min Scan# 1469

Delta R.T. -0.27 min

Lab File: VW013048.D

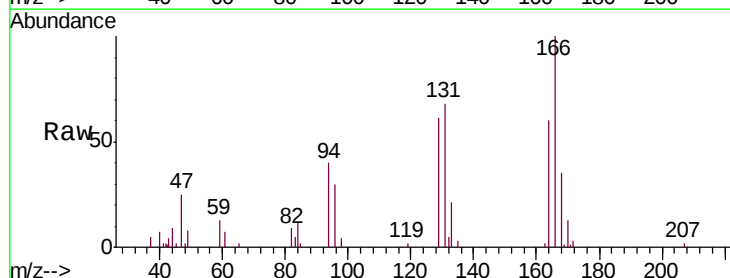
Acq: 16 Sep 2019 18:08

Tgt Ion: 129 Resp: 3543

Ion Ratio Lower Upper

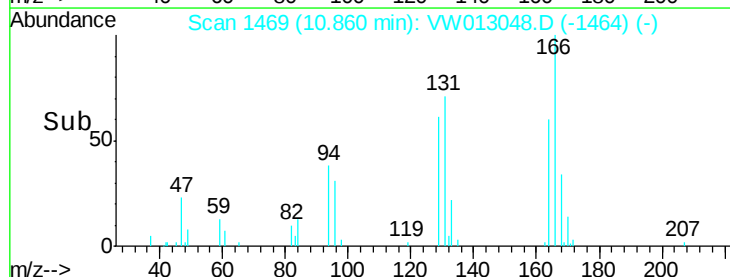
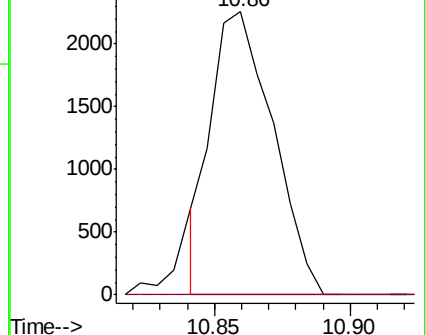
129 100

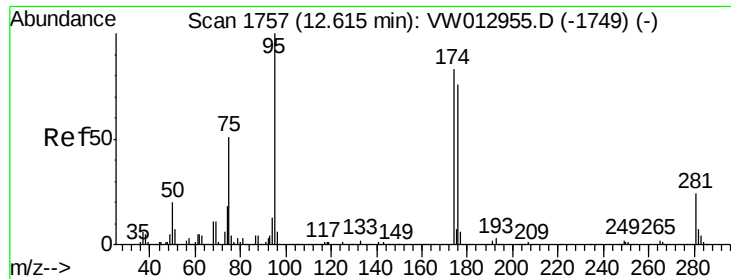
127 0.0 37.4 112.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

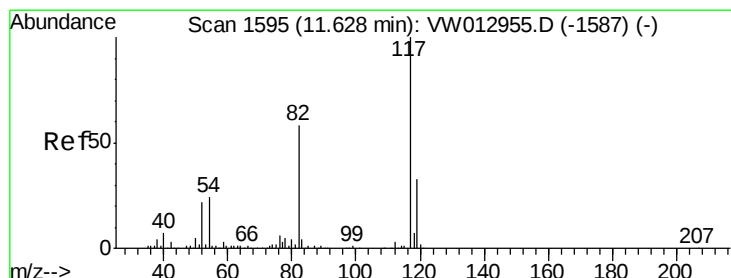
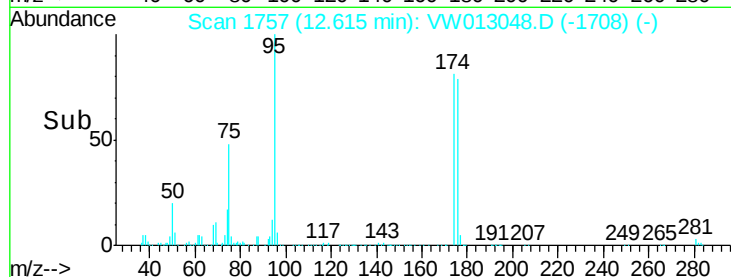
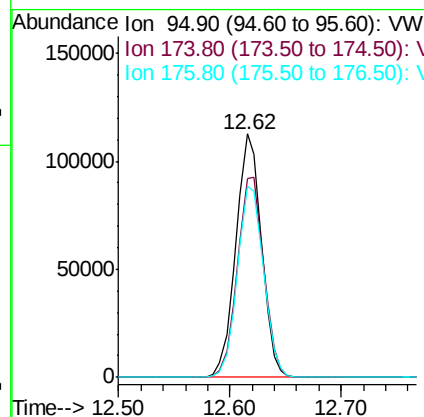
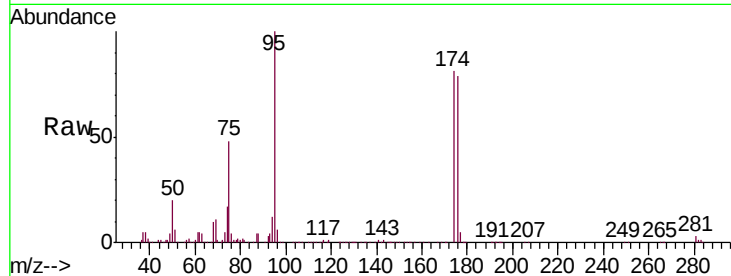




#62
4-Bromofluorobenzene
Concen: 47.139 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW013048.D
Acq: 16 Sep 2019 18:08

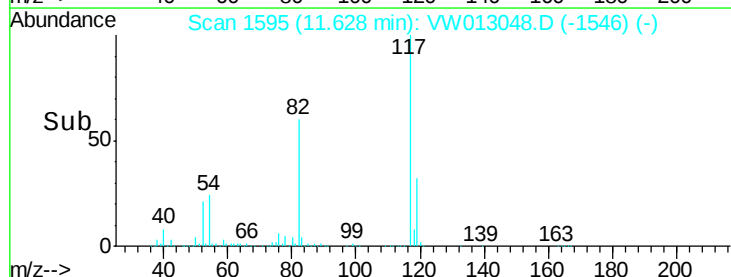
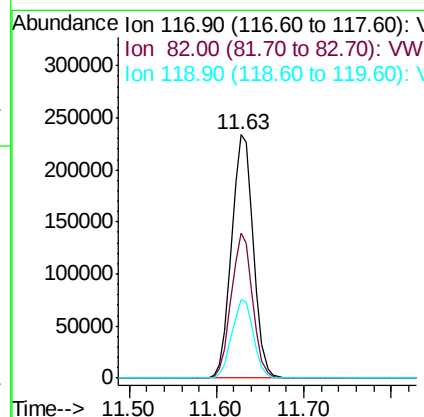
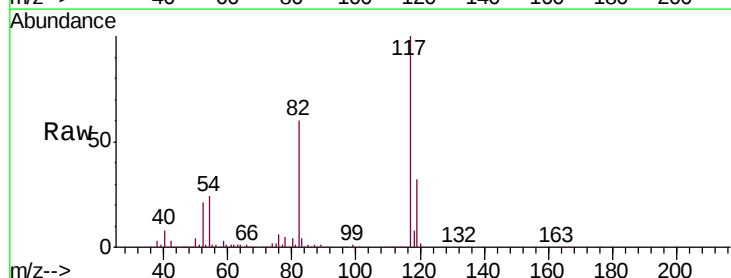
Instrument :
MSVOA_W
ClientSampleId :
TP-2-S2(3.5-4)

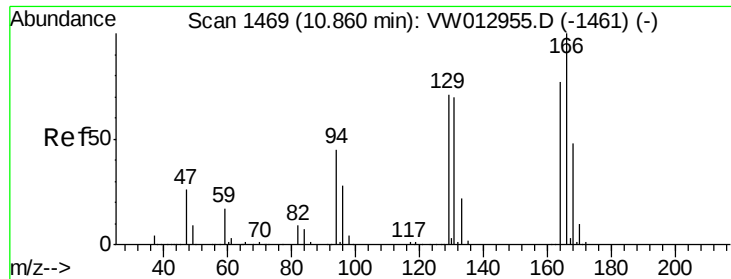
Tgt Ion: 95 Resp: 179282
Ion Ratio Lower Upper
95 100
174 84.6 0.0 170.4
176 80.4 0.0 164.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW013048.D
Acq: 16 Sep 2019 18:08

Tgt Ion: 117 Resp: 403140
Ion Ratio Lower Upper
117 100
82 59.7 46.3 69.5
119 32.4 26.2 39.4





#64

Tetrachloroethene

Concen: 1.833 ug/l

RT: 10.87 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VW013048.D

Acq: 16 Sep 2019 18:08

Instrument :

MSVOA_W

ClientSampleId :

TP-2-S2(3.5-4)

Tgt Ion:164 Resp: 4396

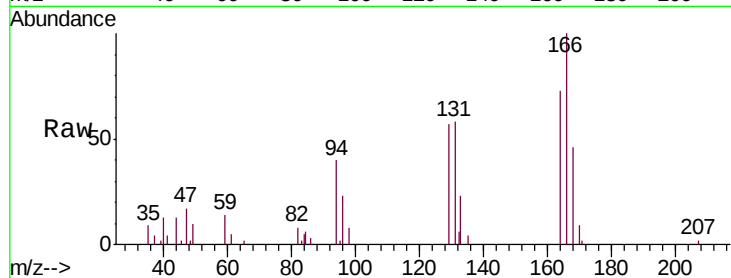
Ion Ratio Lower Upper

164 100

166 136.9 103.3 154.9

129 77.5 73.8 110.8

131 79.9 72.0 108.0

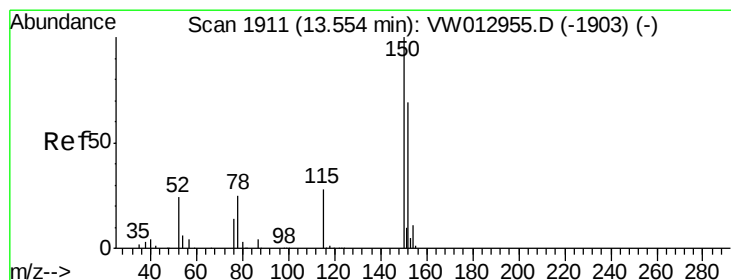
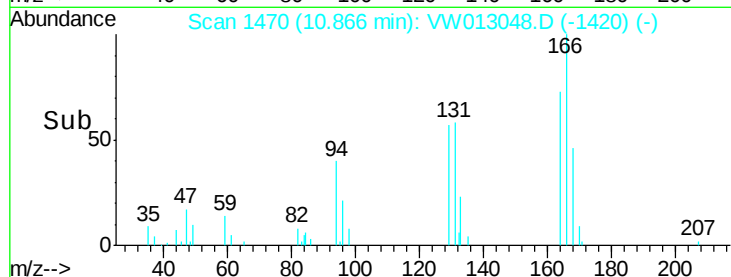
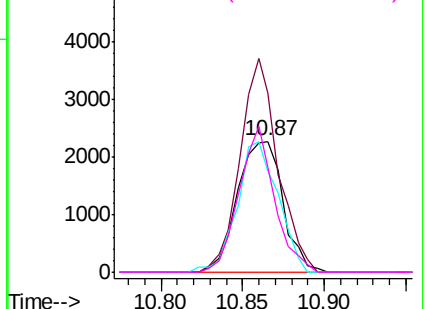


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.55 min Scan# 1911

Delta R.T. -0.00 min

Lab File: VW013048.D

Acq: 16 Sep 2019 18:08

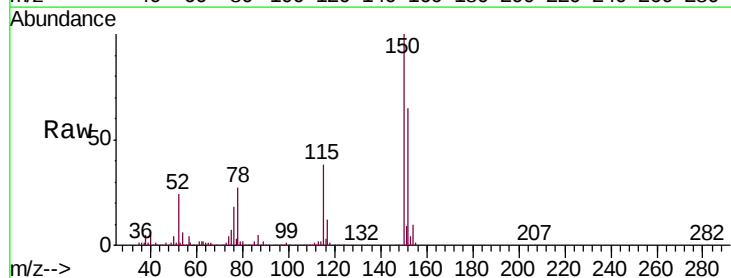
Tgt Ion:152 Resp: 163173

Ion Ratio Lower Upper

152 100

115 57.8 28.8 86.4

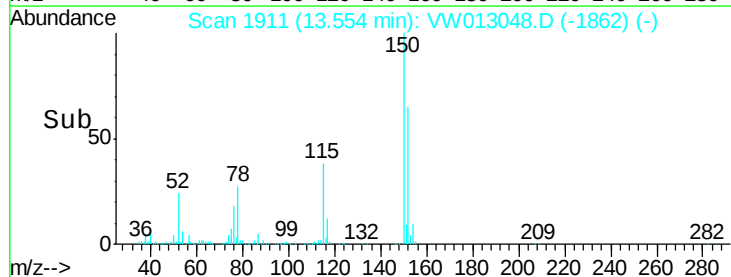
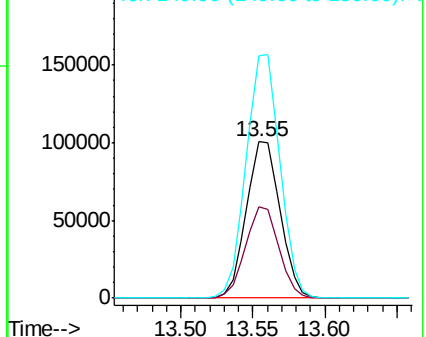
150 156.0 0.0 340.2

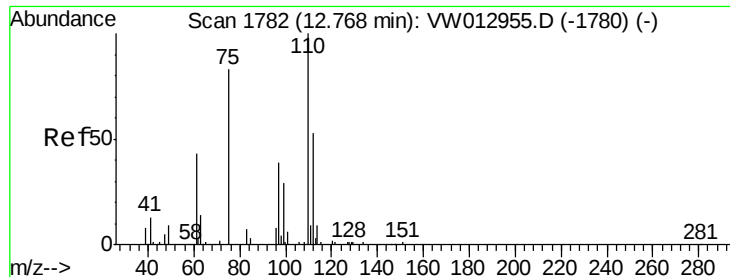


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 61.215 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013048.D

Acq: 16 Sep 2019 18:08

Instrument :

MSVOA_W

ClientSampleId :

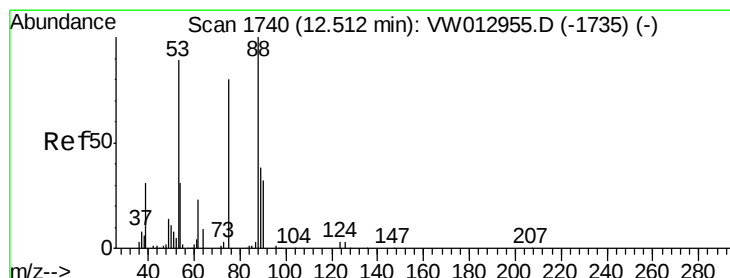
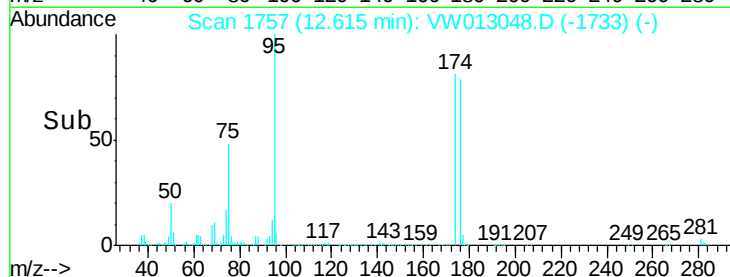
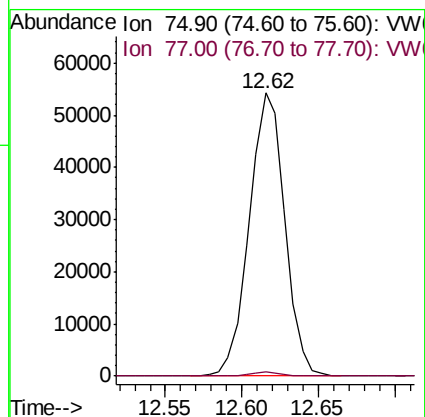
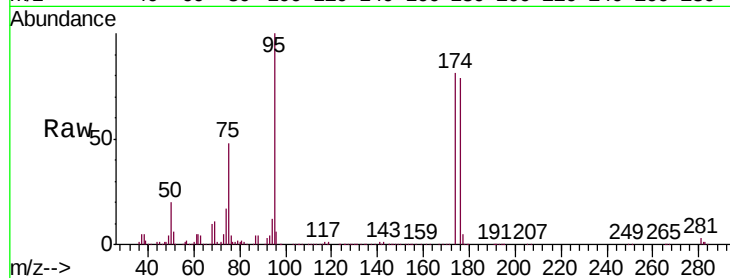
TP-2-S2(3.5-4)

Tgt Ion: 75 Resp: 87493

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 138.866 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013048.D

Acq: 16 Sep 2019 18:08

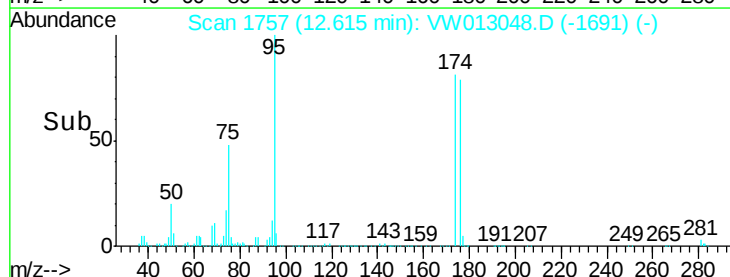
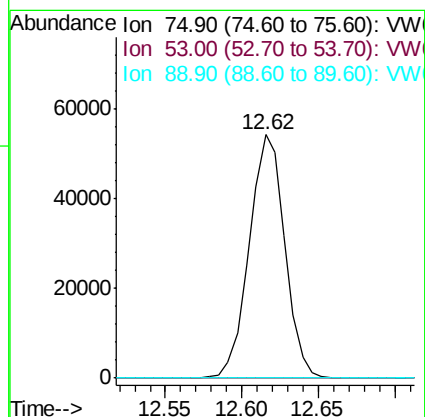
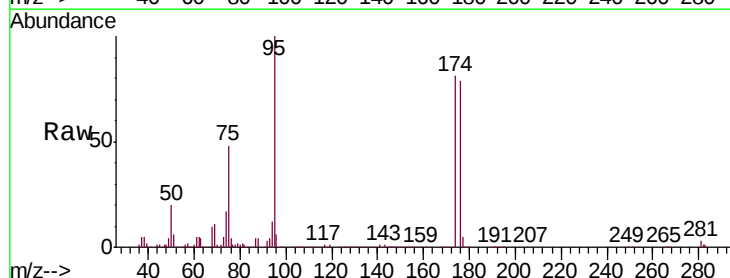
Tgt Ion: 75 Resp: 87493

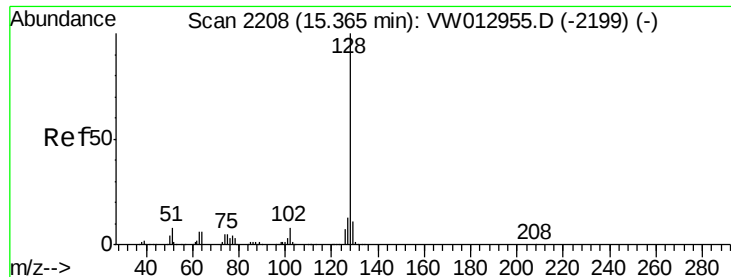
Ion Ratio Lower Upper

75 100

53 0.1 85.6 128.4#

89 0.0 37.2 55.8#





#95

Naphthalene

Concen: 10.370 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW013048.D

Acq: 16 Sep 2019 18:08

Instrument :

MSVOA_W

ClientSampleId :

TP-2-S2(3.5-4)

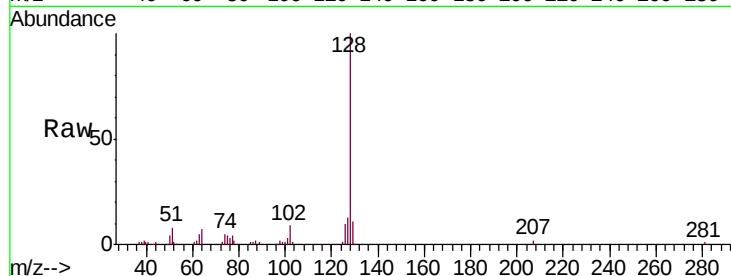
Tgt Ion:128 Resp: 53598

Ion Ratio Lower Upper

128 100

127 12.6 11.0 16.6

129 11.2 8.6 12.8



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

