

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW020119\
 Data File : VW008489.D
 Acq On : 01 Feb 2019 18:37
 Operator : SY/VA
 Sample : K1011-13RE
 Misc : 5.15G/5ML/MSVOA_W/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 OR-02-013119-A

Quant Time: Feb 02 00:46:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W012419S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 25 11:07:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	354718	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	571220	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	472535	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	182023	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	184266	52.88	ug/l	0.00
Spiked Amount			Recovery	=	105.76%	
35) Dibromofluoromethane	7.88	113	179420	53.72	ug/l	0.00
Spiked Amount			Recovery	=	107.44%	
50) Toluene-d8	10.32	98	649684	48.51	ug/l	0.00
Spiked Amount			Recovery	=	97.02%	
62) 4-Bromofluorobenzene	12.62	95	209591	40.71	ug/l	0.00
Spiked Amount			Recovery	=	81.42%	

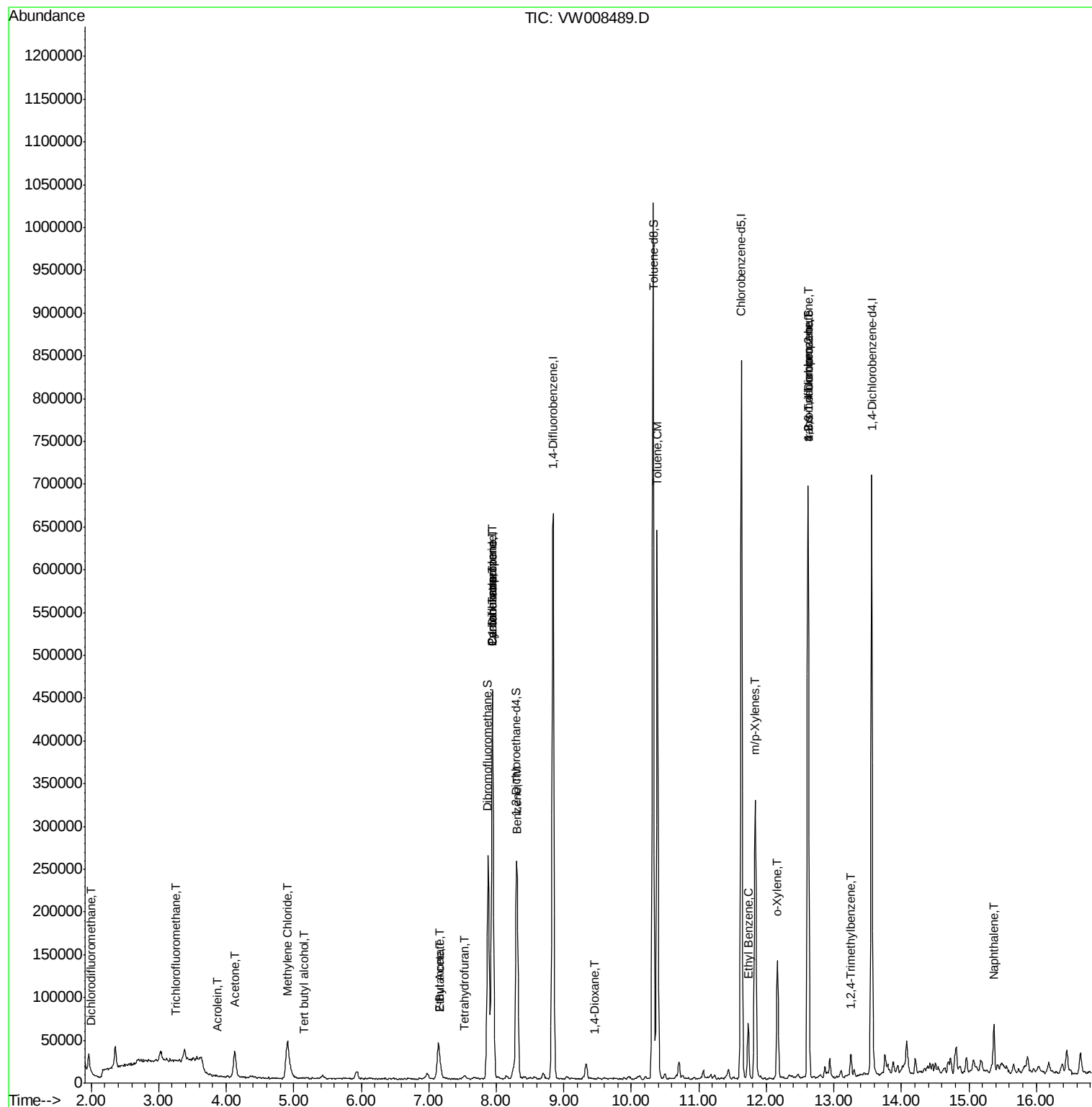
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	117	3.306	ug/l #	41
7) Trichlorofluoromethane	3.26	101	287	4.806	ug/l #	51
11) Tert butyl alcohol	5.16	59	508	1.811	ug/l #	70
13) Acrolein	3.87	56	271	5.262	ug/l #	62
16) Acetone	4.12	43	54354	69.457	ug/l	98
20) Methylene Chloride	4.90	84	35345	9.799	ug/l	92
25) 2-Butanone	7.17	43	12067	11.102	ug/l #	89
29) Tetrahydrofuran	7.53	42	2675	3.884	ug/l #	87
31) Cyclohexane	7.95	56	11398	1.667	ug/l #	35
36) 1,1-Dichloropropene	7.94	75	25291	4.687	ug/l #	50
37) Ethyl Acetate	7.17	43	12067	5.055	ug/l #	71
38) Carbon Tetrachloride	7.94	117	33753	6.216	ug/l #	16
40) Benzene	8.32	78	32162	2.148	ug/l	98
49) 1,4-Dioxane	9.46	88	56	1.725	ug/l #	1
52) Toluene	10.38	92	275110	27.835	ug/l	100
67) Ethyl Benzene	11.73	91	43393	2.447	ug/l	98
68) m/p-Xylenes	11.83	106	100345	14.586	ug/l	97
69) o-Xylene	12.16	106	37823	5.786	ug/l	95
76) 1,2,3-Trichloropropane	12.62	75	106255	67.141	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	106255	132.609	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.25	105	14578	1.265	ug/l	95
95) Naphthalene	15.37	128	45368	6.837	ug/l	97

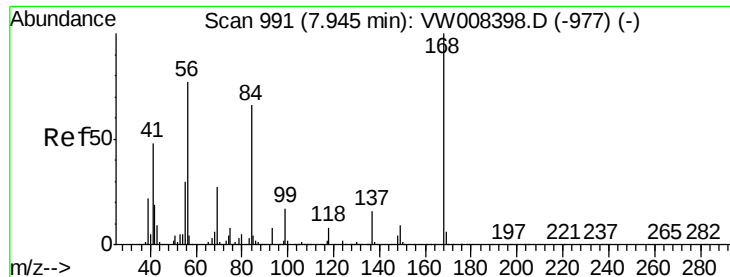
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Jan 25 11:07:41 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: VW008489.D

Acq: 01 Feb 2019 18:37

Instrument :

MSVOA_W

ClientSampleId :

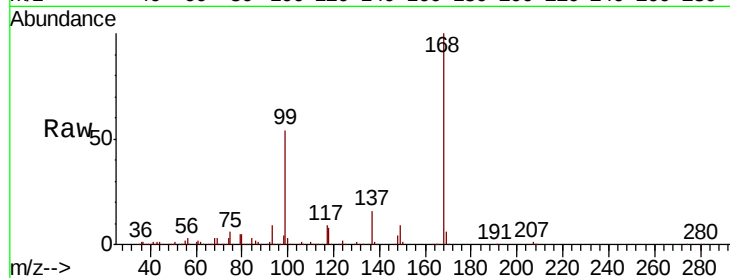
OR-02-013119-A

Tgt Ion:168 Resp: 354718

Ion Ratio Lower Upper

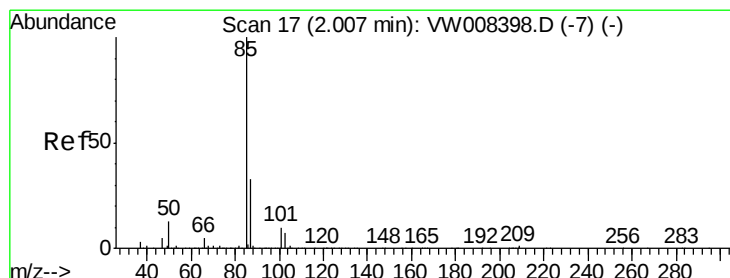
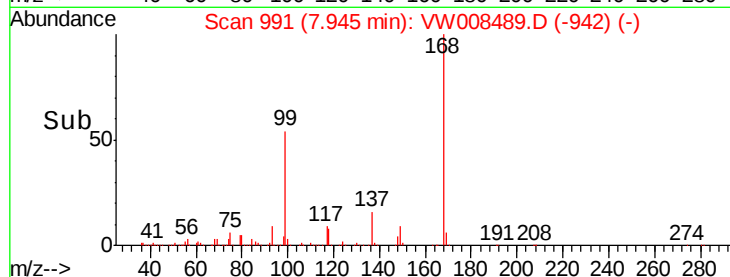
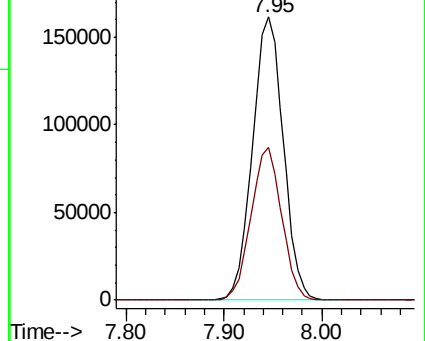
168 100

99 54.1 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 3.306 ug/l

RT: 2.00 min Scan# 16

Delta R.T. -0.01 min

Lab File: VW008489.D

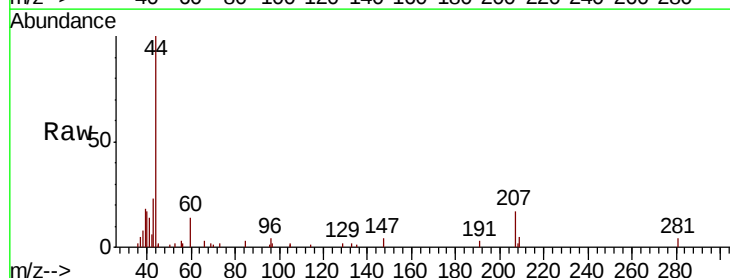
Acq: 01 Feb 2019 18:37

Tgt Ion: 85 Resp: 117

Ion Ratio Lower Upper

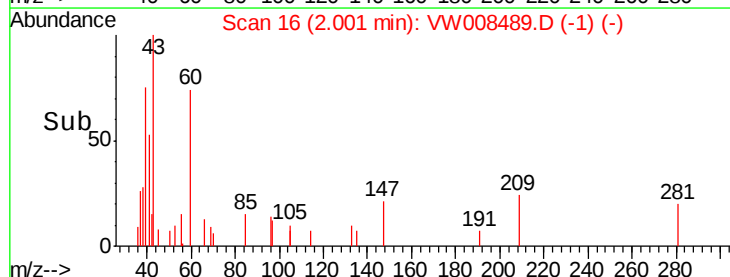
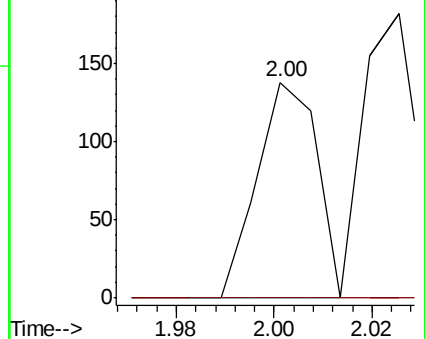
85 100

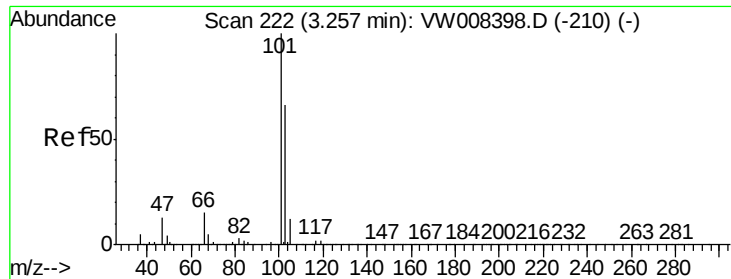
87 0.0 16.7 50.1#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW



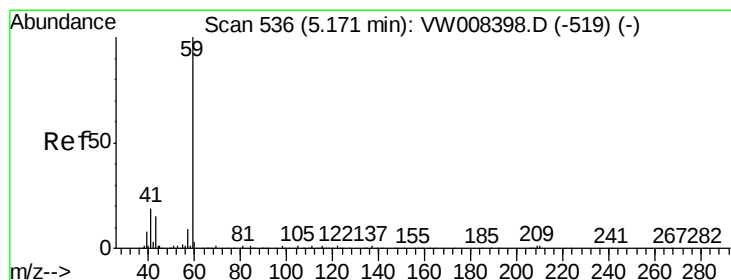
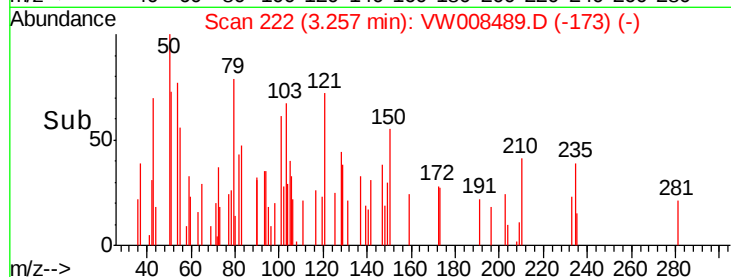
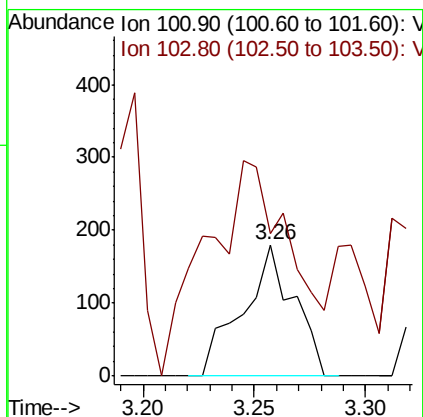
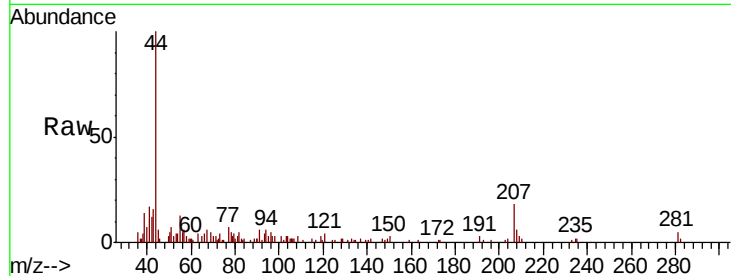


#7

Trichlorofluoromethane
Concen: 4.806 ug/l
RT: 3.26 min Scan# 222
Delta R.T. 0.00 min
Lab File: VW008489.D
Acq: 01 Feb 2019 18:37

Instrument :
MSVOA_W
ClientSampleId :
OR-02-013119-A

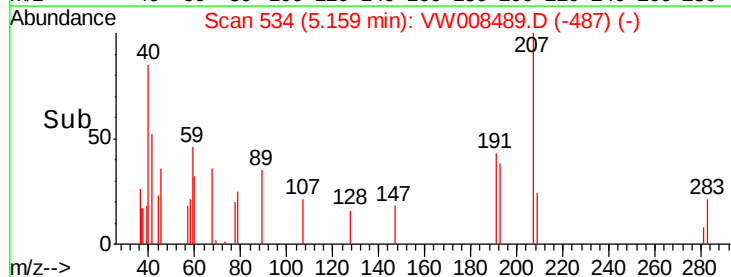
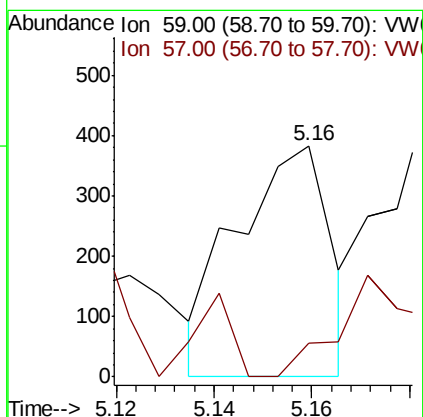
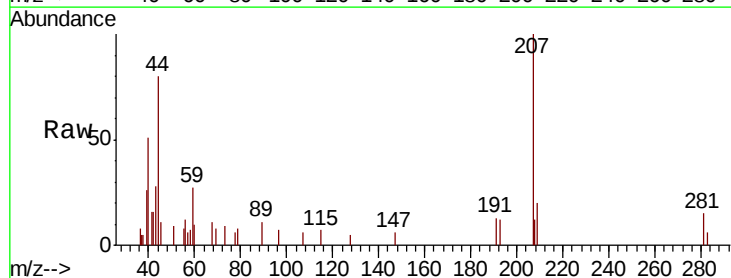
Tgt Ion: 101 Resp: 287
Ion Ratio Lower Upper
101 100
103 26.7 52.5 78.7#

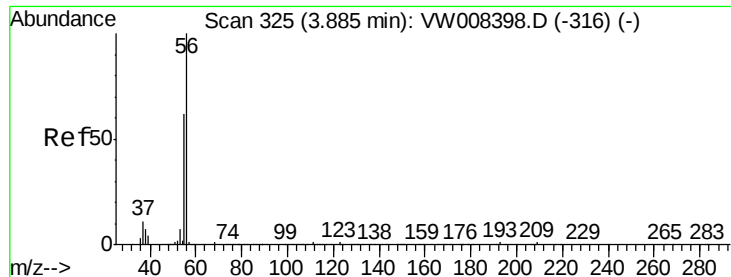


#11

Tert butyl alcohol
Concen: 1.811 ug/l
RT: 5.16 min Scan# 534
Delta R.T. -0.01 min
Lab File: VW008489.D
Acq: 01 Feb 2019 18:37

Tgt Ion: 59 Resp: 508
Ion Ratio Lower Upper
59 100
57 0.0 9.3 13.9#





#13

Acrolein

Concen: 5.262 ug/l

RT: 3.87 min Scan# 322

Delta R.T. -0.02 min

Lab File: VW008489.D

Acq: 01 Feb 2019 18:37

Instrument :

MSVOA_W

ClientSampled :

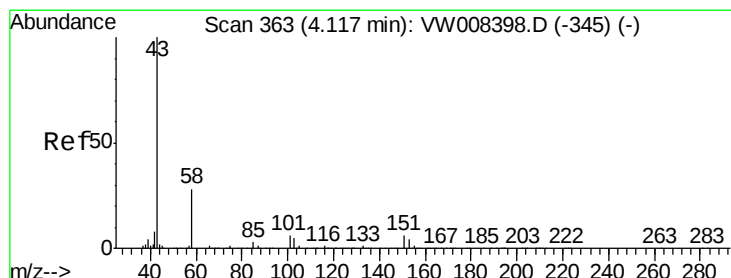
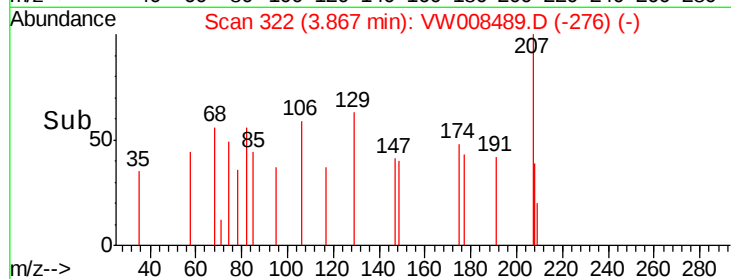
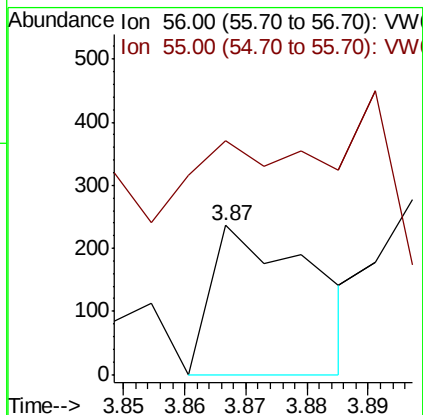
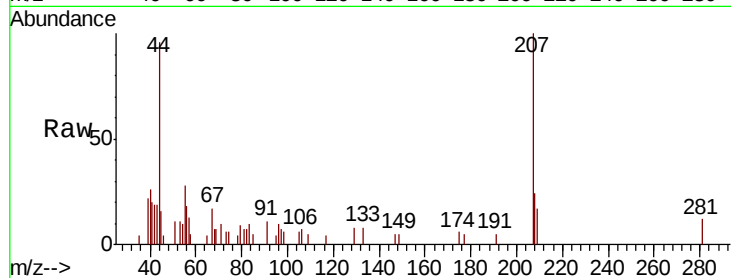
OR-02-013119-A

Tgt Ion: 56 Resp: 271

Ion Ratio Lower Upper

56 100

55 39.9 56.7 85.1#



#16

Acetone

Concen: 69.457 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW008489.D

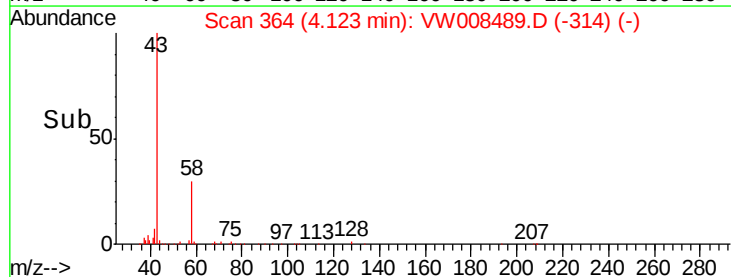
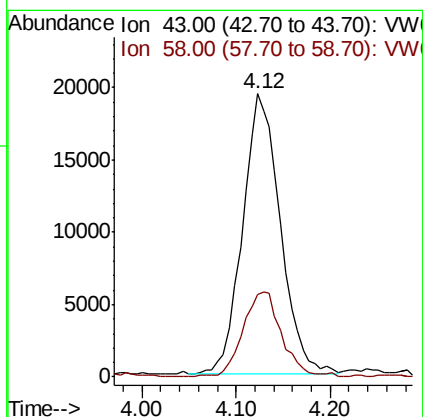
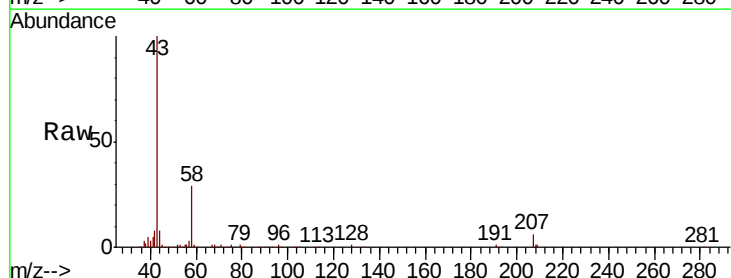
Acq: 01 Feb 2019 18:37

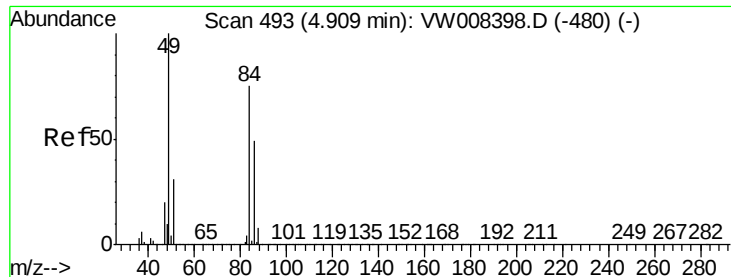
Tgt Ion: 43 Resp: 54354

Ion Ratio Lower Upper

43 100

58 29.3 22.6 34.0

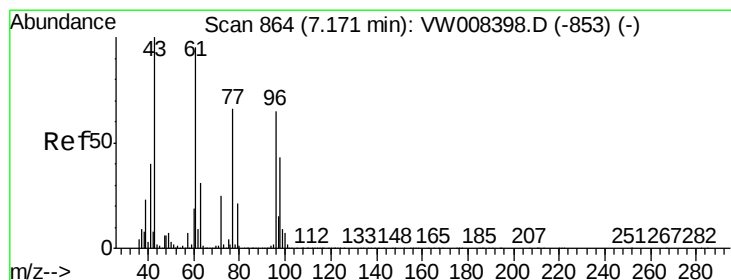
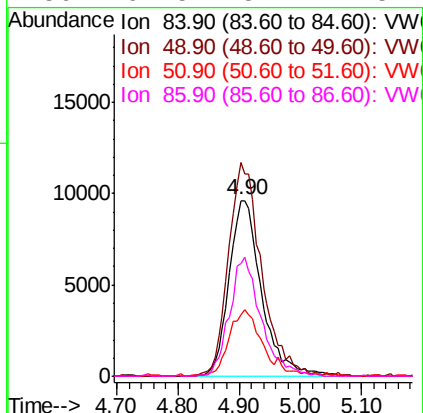
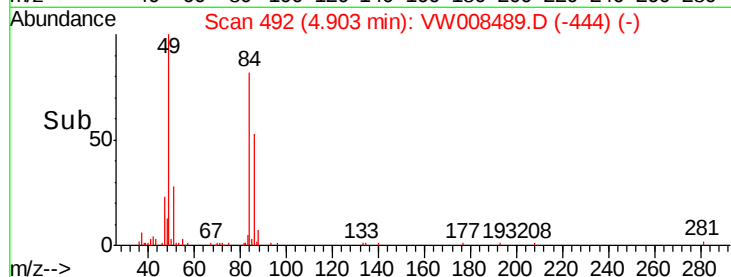
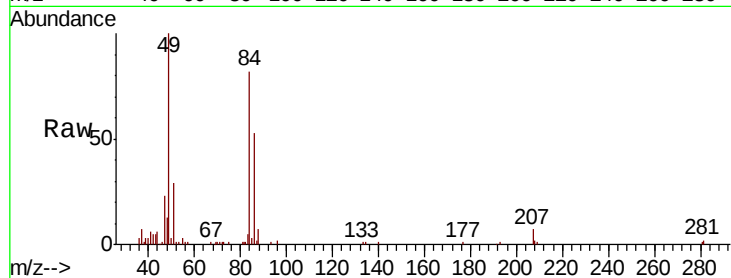




#20
Methylene Chloride
Concen: 9.799 ug/l
RT: 4.90 min Scan# 492
Delta R.T. -0.01 min
Lab File: VW008489.D
Acq: 01 Feb 2019 18:37

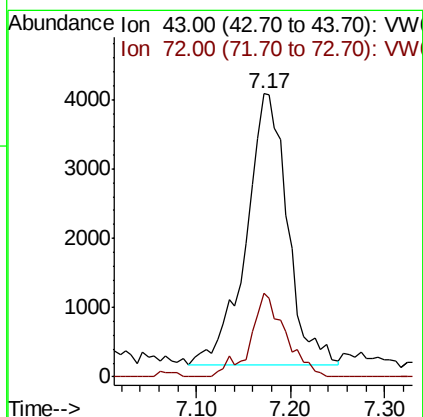
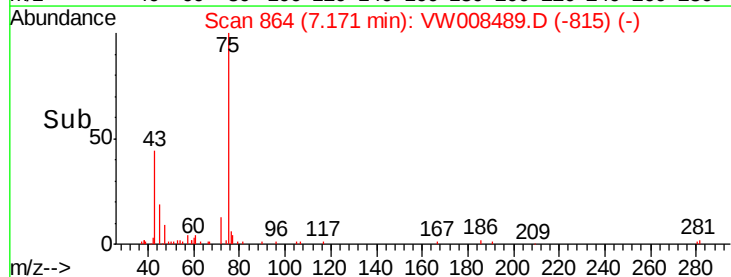
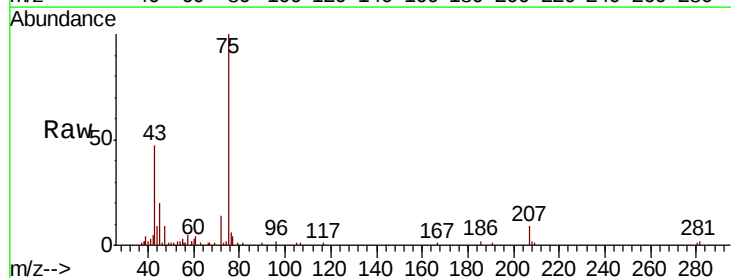
Instrument :
MSVOA_W
ClientSampleId :
OR-02-013119-A

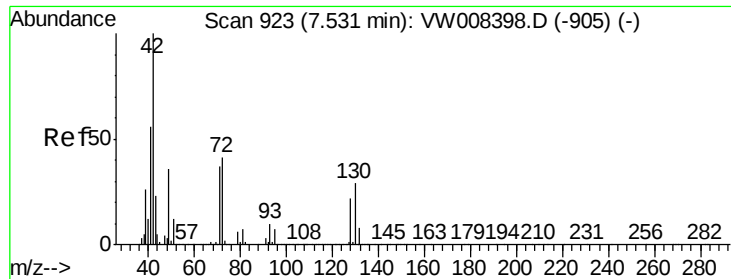
Tgt Ion: 84 Resp: 35345
Ion Ratio Lower Upper
84 100
49 121.7 106.8 160.2
51 34.9 32.9 49.3
86 64.5 52.2 78.2



#25
2-Butanone
Concen: 11.102 ug/l
RT: 7.17 min Scan# 864
Delta R.T. 0.00 min
Lab File: VW008489.D
Acq: 01 Feb 2019 18:37

Tgt Ion: 43 Resp: 12067
Ion Ratio Lower Upper
43 100
72 30.7 20.1 30.1#

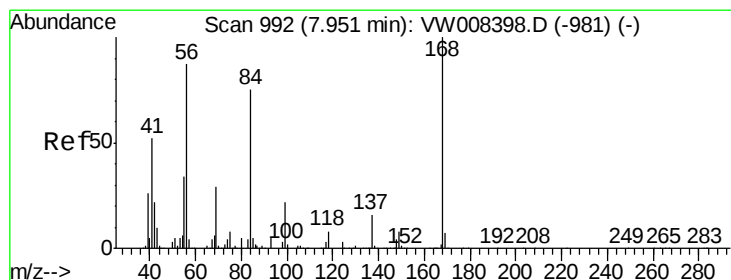
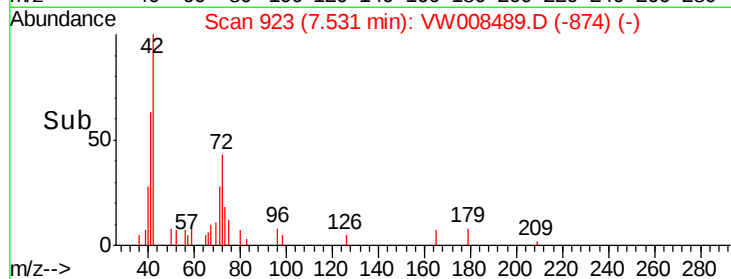
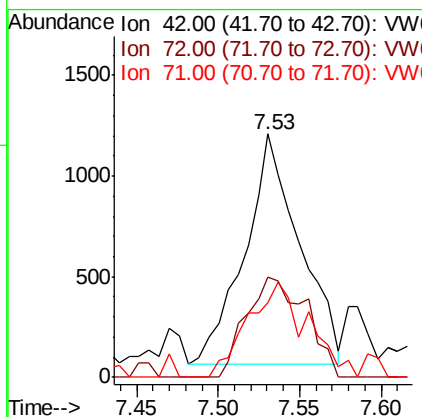
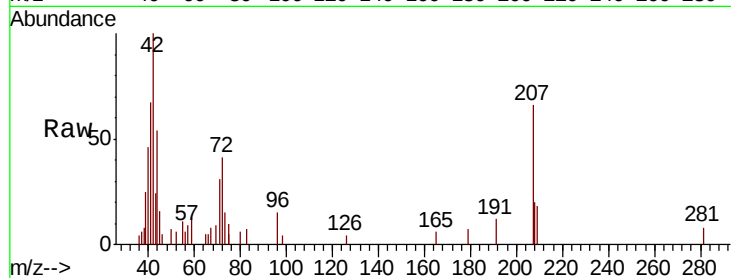




#29
Tetrahydrofuran
Concen: 3.884 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.00 min
Lab File: VW008489.D
Acq: 01 Feb 2019 18:37

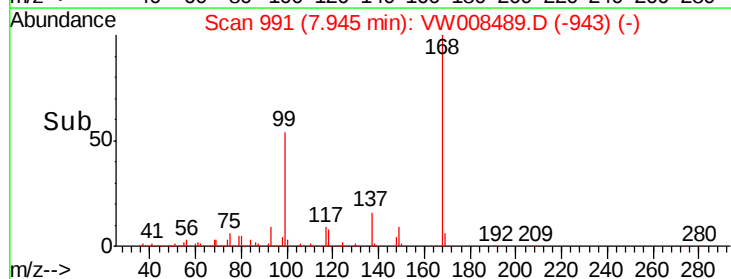
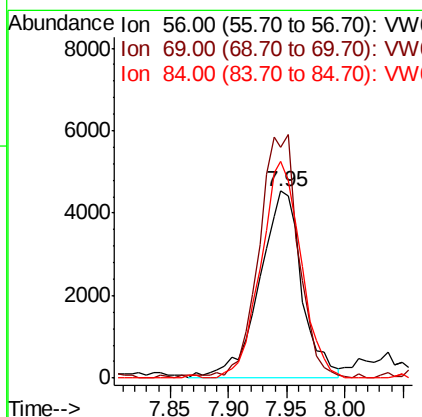
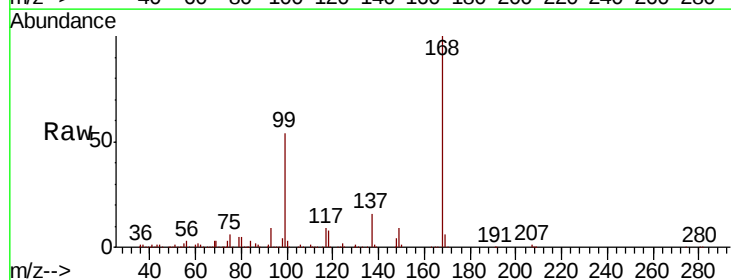
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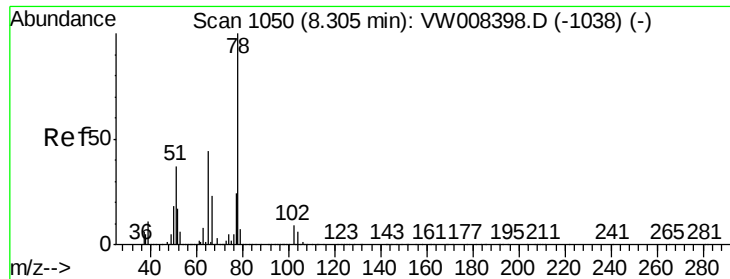
Tgt Ion: 42 Resp: 2675
Ion Ratio Lower Upper
42 100
72 47.5 31.9 47.9
71 45.3 29.9 44.9#



#31
Cyclohexane
Concen: 1.667 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW008489.D
Acq: 01 Feb 2019 18:37

Tgt Ion: 56 Resp: 11398
Ion Ratio Lower Upper
56 100
69 122.0 26.4 39.6#
84 114.3 69.1 103.7#





#33

1,2-Dichloroethane-d4

Concen: 52.877 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW008489.D

Acq: 01 Feb 2019 18:37

Instrument :

MSVOA_W

ClientSampleId :

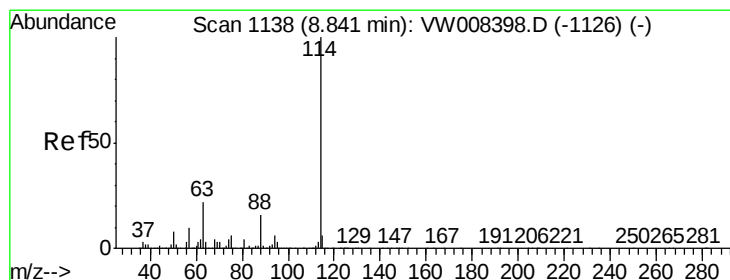
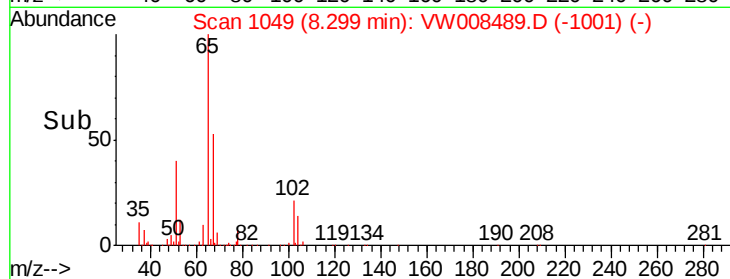
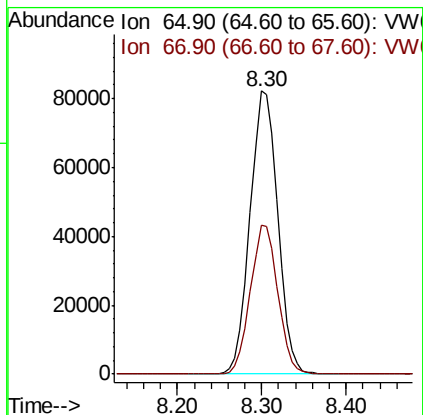
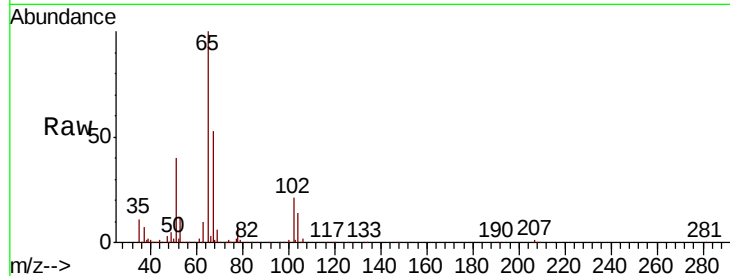
OR-02-013119-A

Tgt Ion: 65 Resp: 184266

Ion Ratio Lower Upper

65 100

67 51.8 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW008489.D

Acq: 01 Feb 2019 18:37

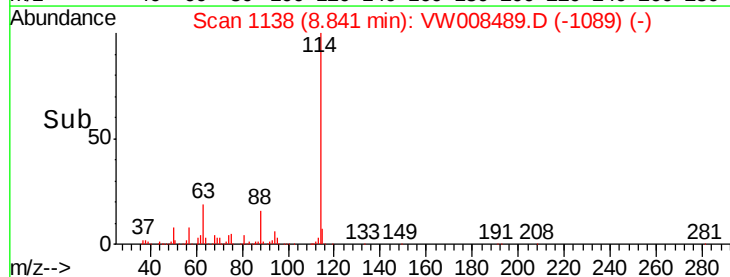
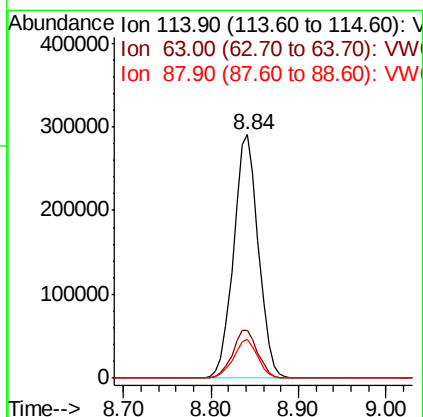
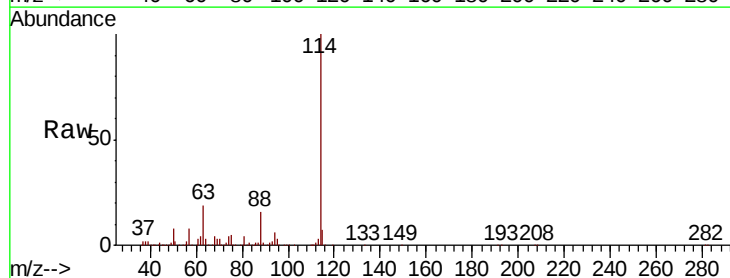
Tgt Ion: 114 Resp: 571220

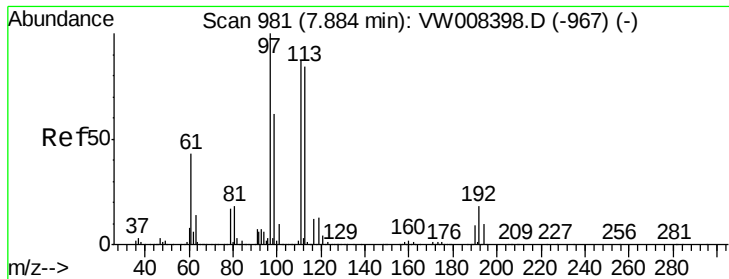
Ion Ratio Lower Upper

114 100

63 19.4 0.0 43.6

88 15.9 0.0 31.8





#35

Dibromofluoromethane

Concen: 53.717 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW008489.D

Acq: 01 Feb 2019 18:37

Instrument :

MSVOA_W

ClientSampleId :

OR-02-013119-A

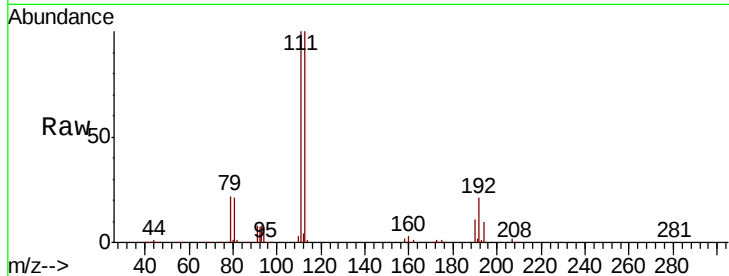
Tgt Ion:113 Resp: 179420

Ion Ratio Lower Upper

113 100

111 101.9 81.0 121.4

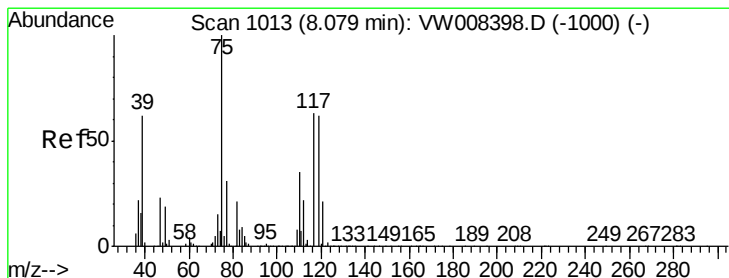
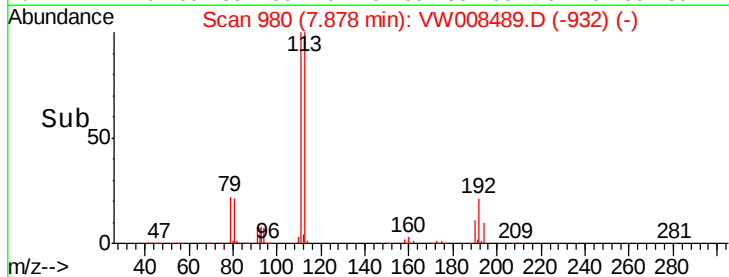
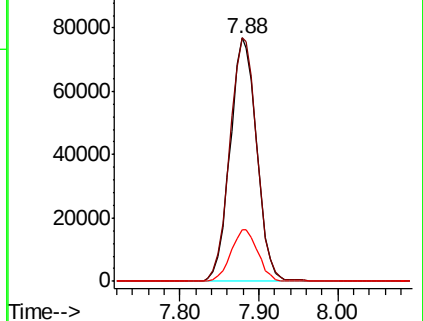
192 21.4 16.8 25.2



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: 4.687 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW008489.D

Acq: 01 Feb 2019 18:37

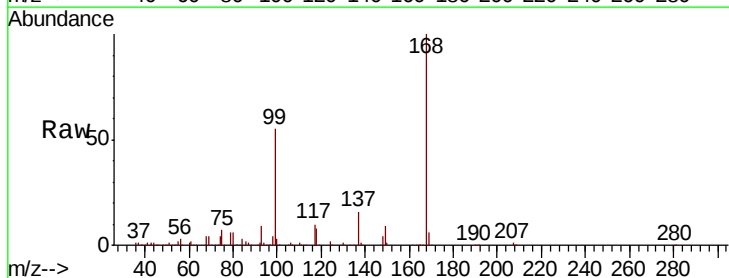
Tgt Ion: 75 Resp: 25291

Ion Ratio Lower Upper

75 100

110 9.4 17.3 52.0#

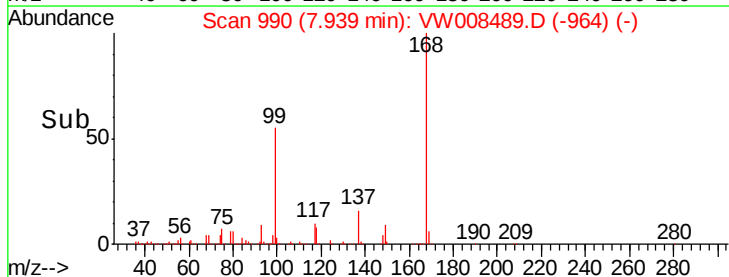
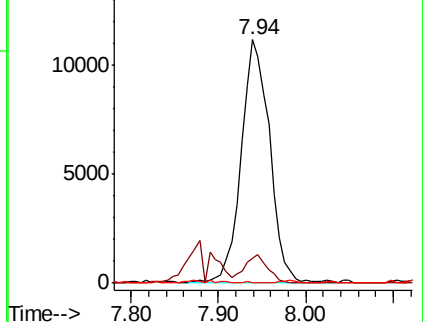
77 0.0 24.7 37.1#

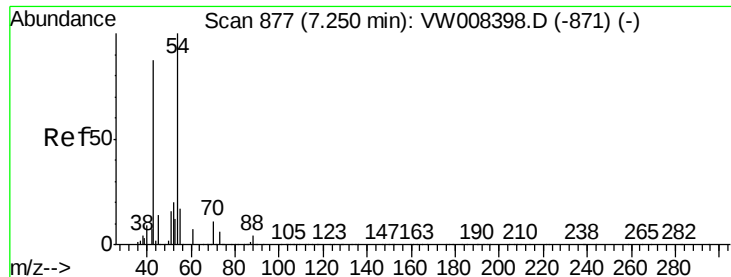


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

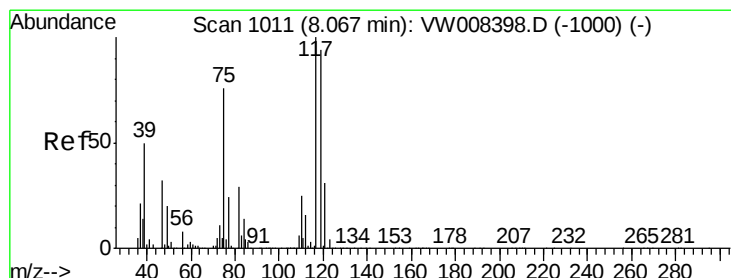
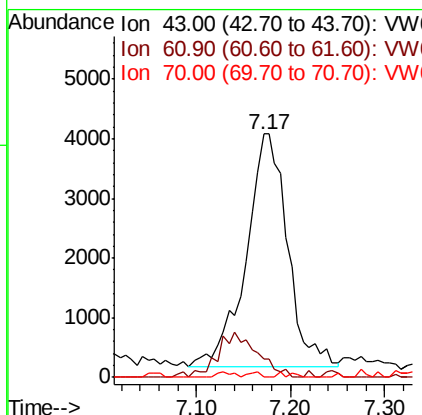
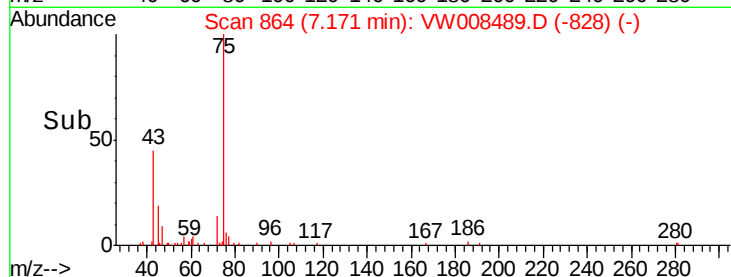
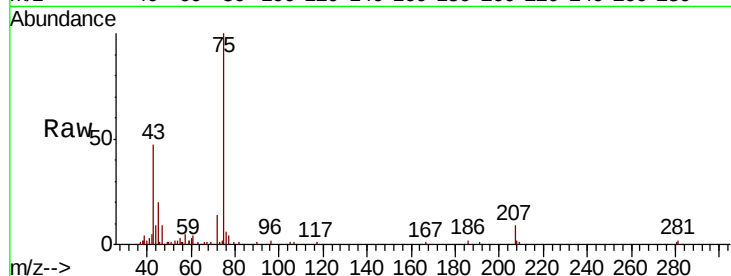




#37
Ethyl Acetate
Concen: 5.055 ug/l
RT: 7.17 min Scan# 864
Delta R.T. -0.08 min
Lab File: VW008489.D
Acq: 01 Feb 2019 18:37

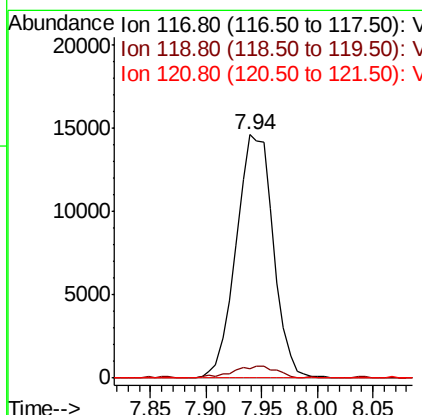
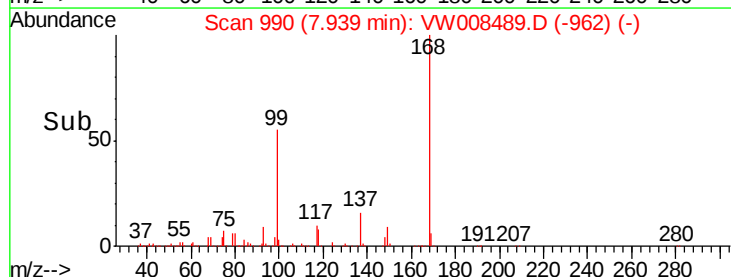
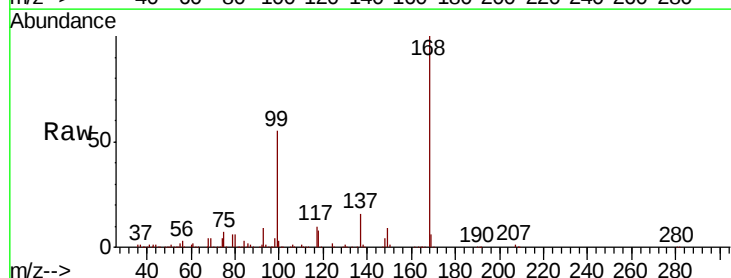
Instrument :
MSVOA_W
ClientSampled :
OR-02-013119-A

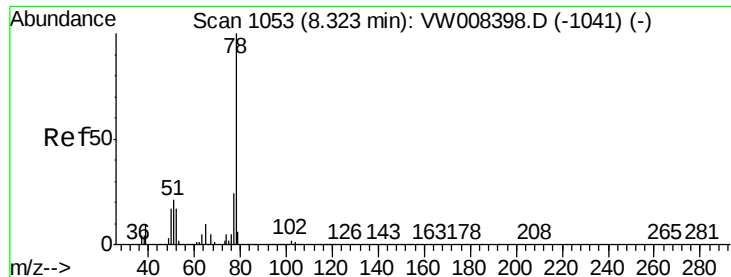
Tgt Ion: 43 Resp: 12067
Ion Ratio Lower Upper
43 100
61 0.0 10.1 15.1#
70 0.7 7.8 11.6#



#38
Carbon Tetrachloride
Concen: 6.216 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.13 min
Lab File: VW008489.D
Acq: 01 Feb 2019 18:37

Tgt Ion: 117 Resp: 33753
Ion Ratio Lower Upper
117 100
119 3.8 75.0 112.4#
121 0.0 24.9 37.3#





#40

Benzene

Concen: 2.148 ug/l

RT: 8.32 min Scan# 1052

Delta R.T. -0.01 min

Lab File: VW008489.D

Acq: 01 Feb 2019 18:37

Instrument :

MSVOA_W

ClientSampleId :

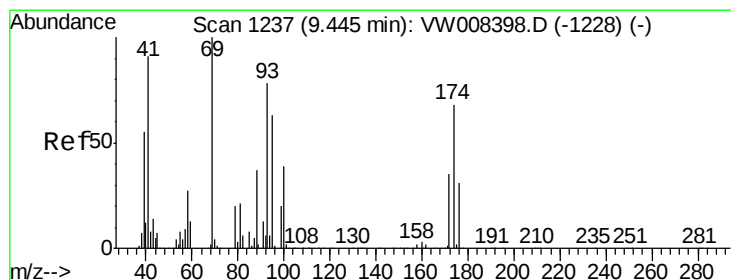
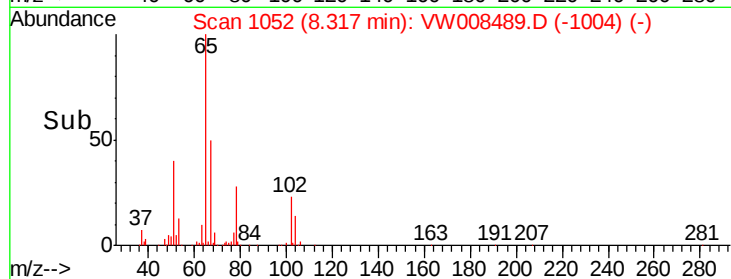
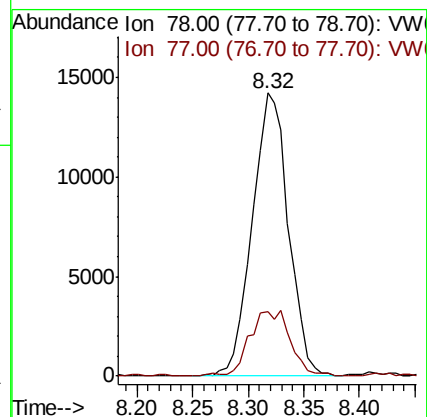
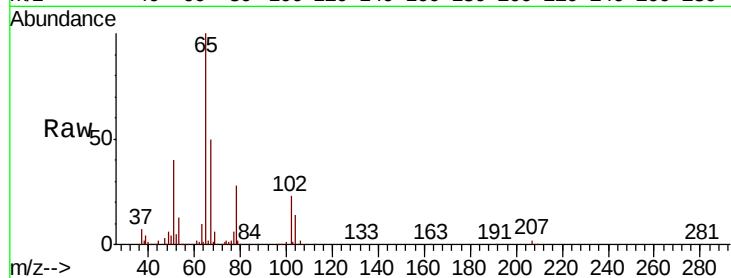
OR-02-013119-A

Tgt Ion: 78 Resp: 32162

Ion Ratio Lower Upper

78 100

77 22.9 19.0 28.6



#49

1,4-Dioxane

Concen: 1.725 ug/l

RT: 9.46 min Scan# 1240

Delta R.T. 0.02 min

Lab File: VW008489.D

Acq: 01 Feb 2019 18:37

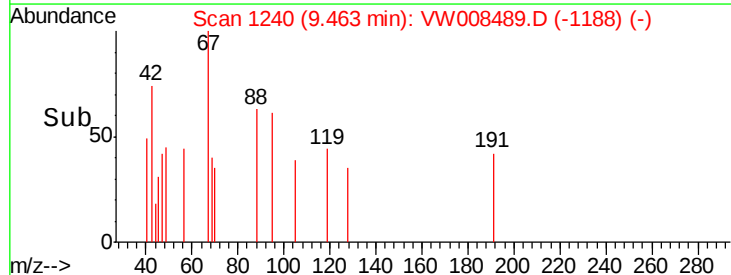
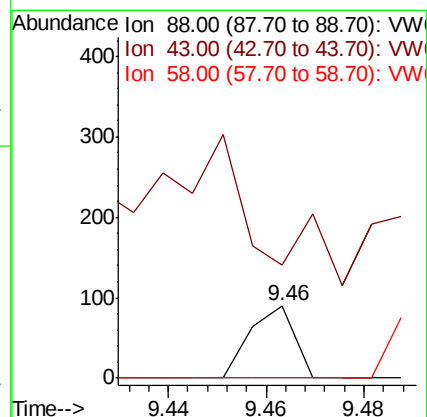
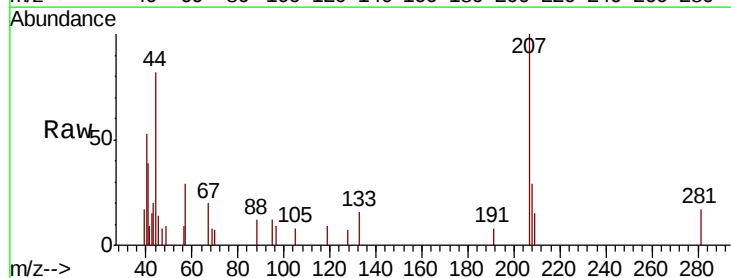
Tgt Ion: 88 Resp: 56

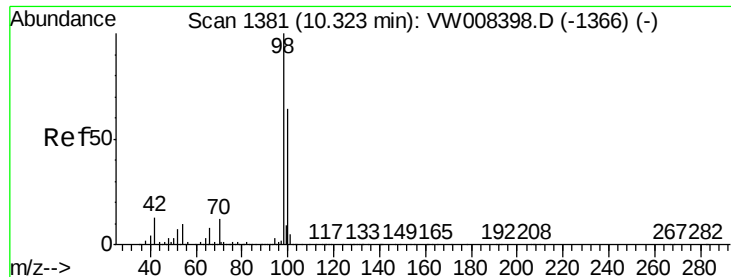
Ion Ratio Lower Upper

88 100

43 255.4 29.0 43.4#

58 0.0 56.4 84.6#





#50

Toluene-d8

Concen: 48.506 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW008489.D

Acq: 01 Feb 2019 18:37

Instrument :

MSVOA_W

ClientSampleId :

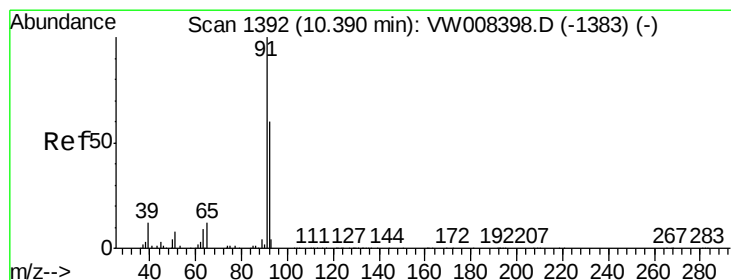
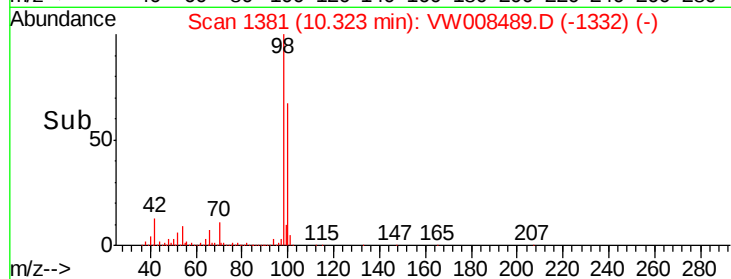
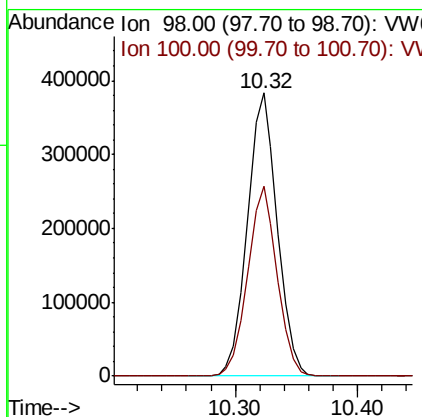
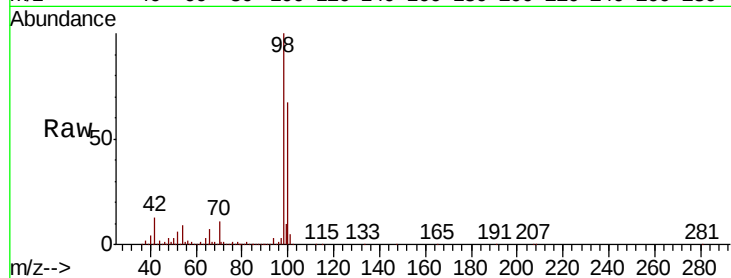
OR-02-013119-A

Tgt Ion: 98 Resp: 649684

Ion Ratio Lower Upper

98 100

100 66.0 52.6 78.8



#52

Toluene

Concen: 27.835 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW008489.D

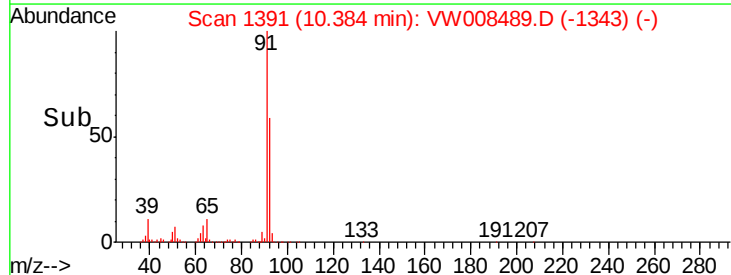
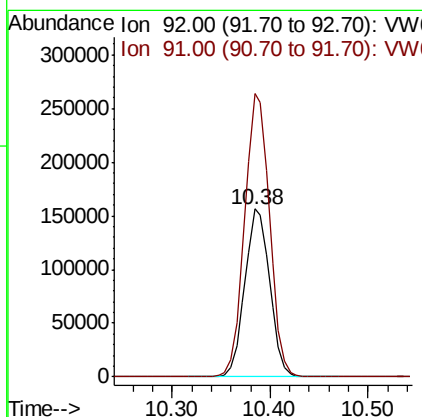
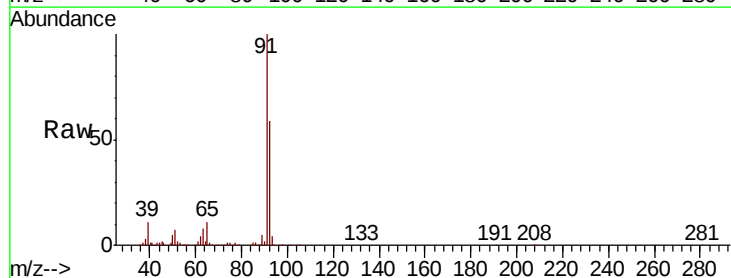
Acq: 01 Feb 2019 18:37

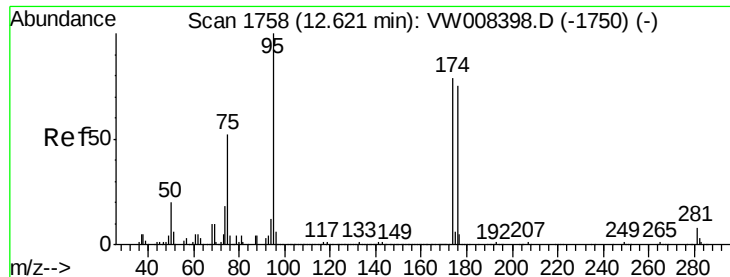
Tgt Ion: 92 Resp: 275110

Ion Ratio Lower Upper

92 100

91 169.1 135.5 203.3





#62

4-Bromofluorobenzene

Concen: 40.710 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008489.D

Acq: 01 Feb 2019 18:37

Instrument :

MSVOA_W

ClientSampleId :

OR-02-013119-A

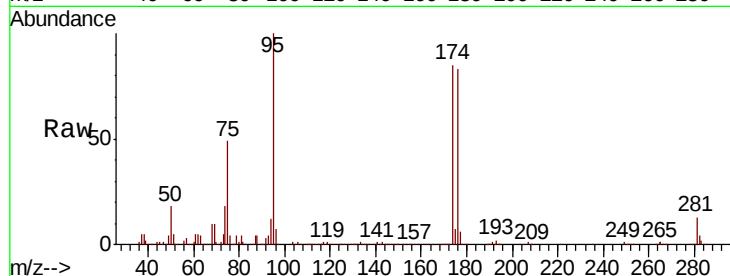
Tgt Ion: 95 Resp: 209591

Ion Ratio Lower Upper

95 100

174 85.1 0.0 157.6

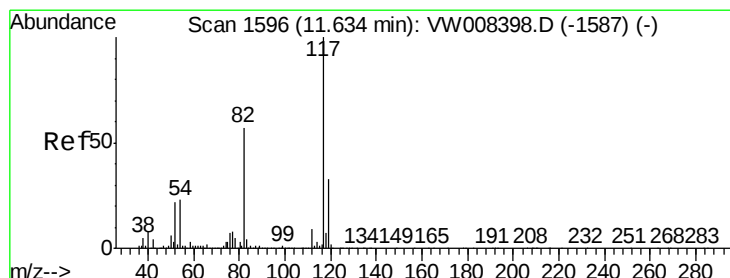
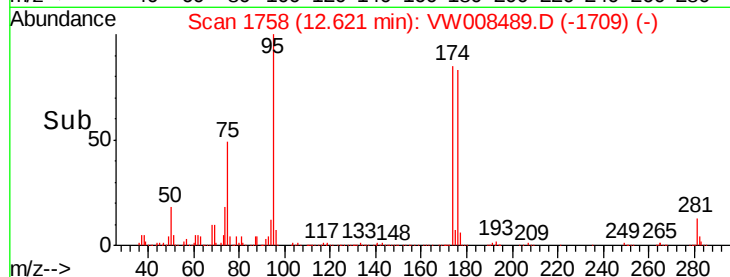
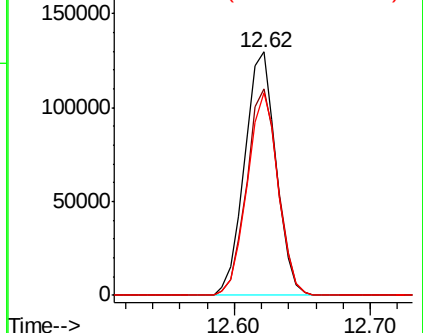
176 82.5 0.0 151.8



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW008489.D

Acq: 01 Feb 2019 18:37

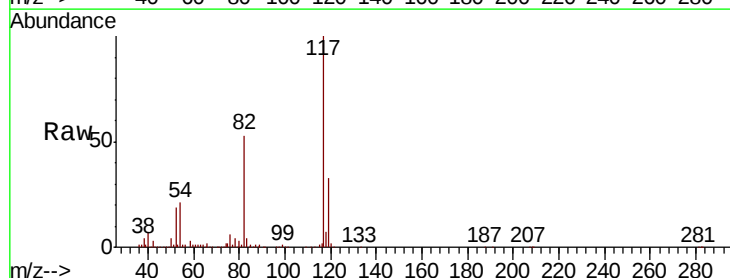
Tgt Ion: 117 Resp: 472535

Ion Ratio Lower Upper

117 100

82 52.8 45.4 68.0

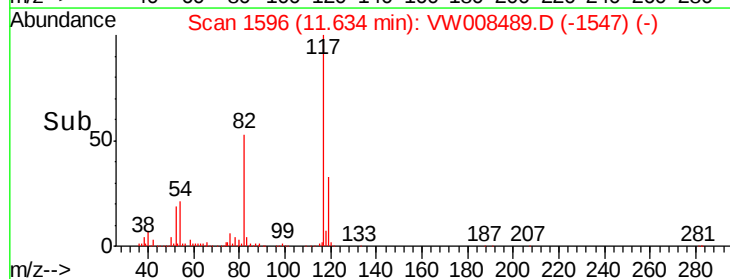
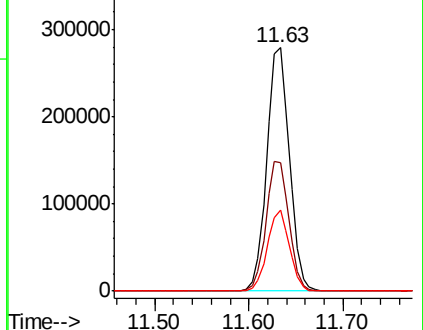
119 33.2 26.2 39.4

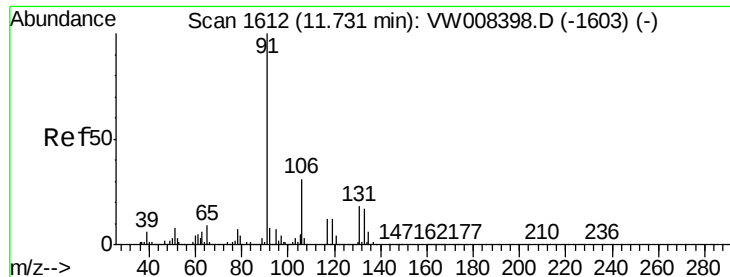


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW

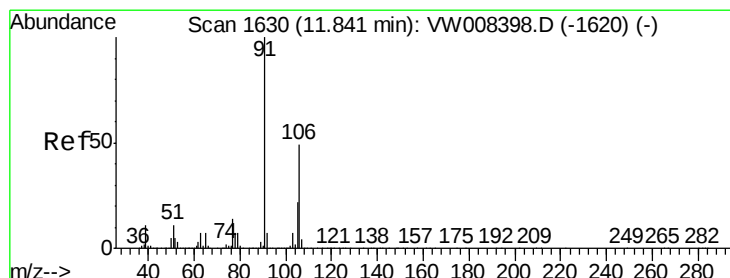
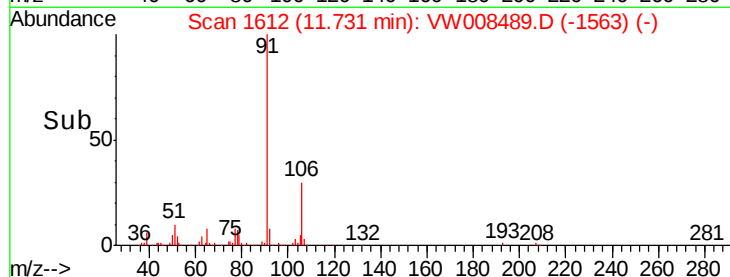
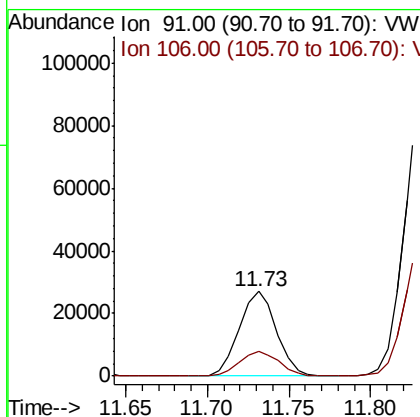
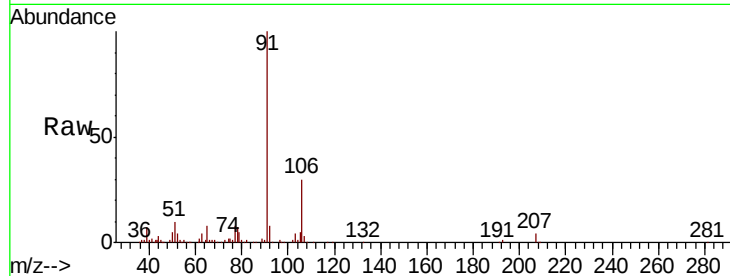




#67
Ethyl Benzene
Concen: 2.447 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW008489.D
Acq: 01 Feb 2019 18:37

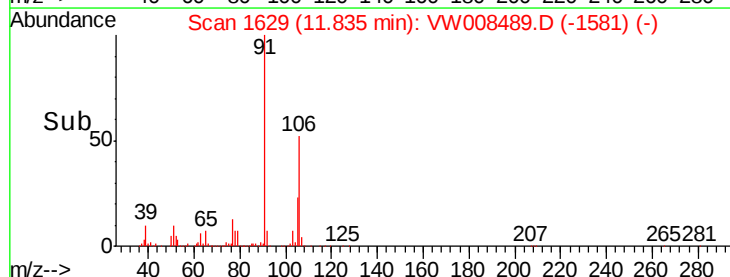
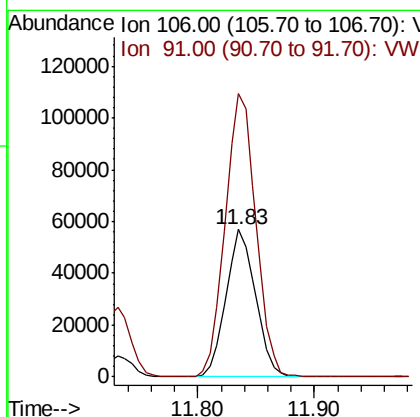
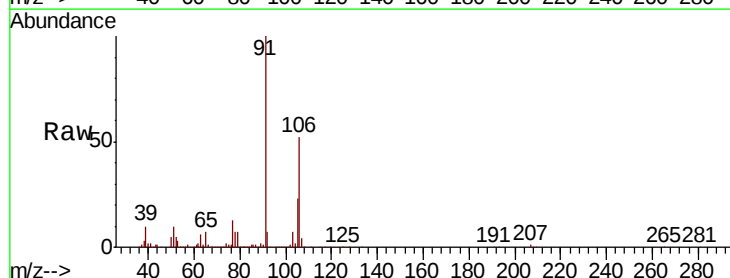
Instrument :
MSVOA_W
ClientSampleId :
OR-02-013119-A

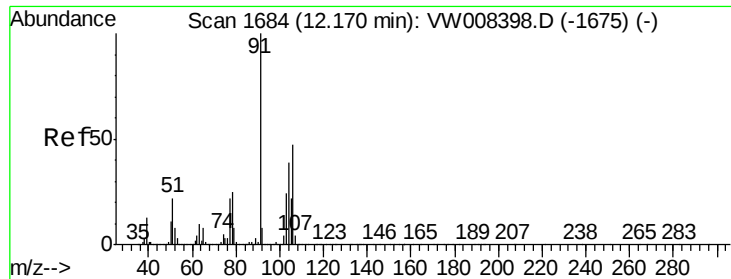
Tgt Ion: 91 Resp: 43393
Ion Ratio Lower Upper
91 100
106 29.8 24.7 37.1



#68
m/p-Xylenes
Concen: 14.586 ug/l
RT: 11.83 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW008489.D
Acq: 01 Feb 2019 18:37

Tgt Ion: 106 Resp: 100345
Ion Ratio Lower Upper
106 100
91 199.0 162.9 244.3

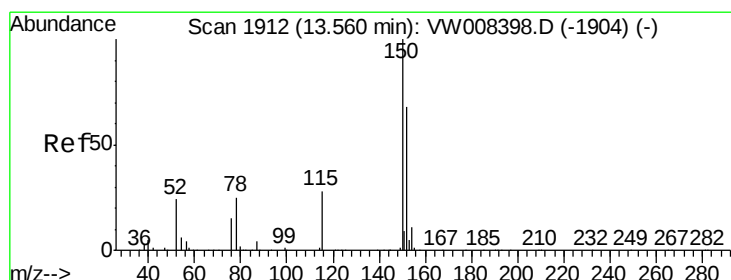
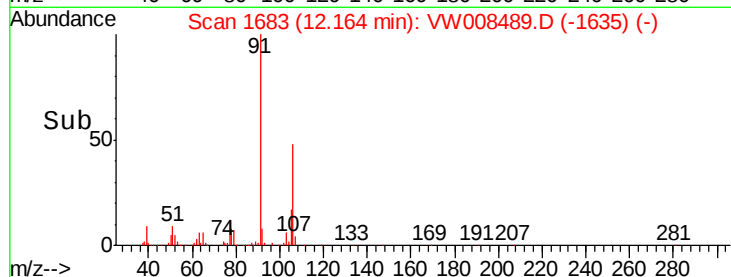
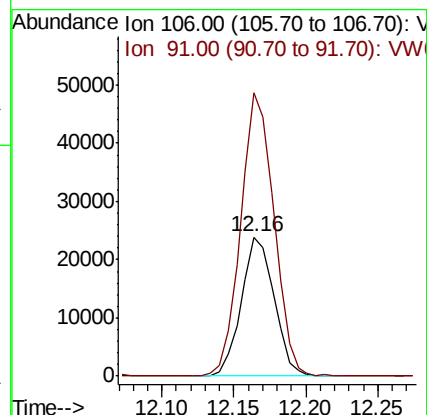
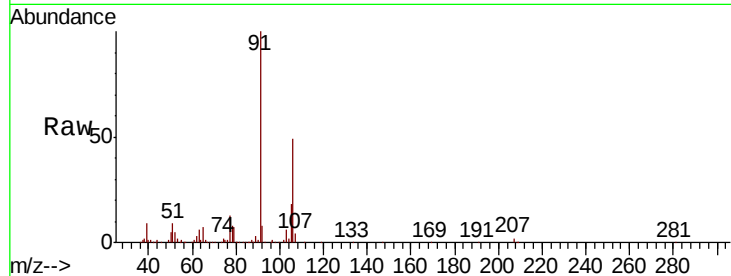




#69
o-Xylene
Concen: 5.786 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VW008489.D
Acq: 01 Feb 2019 18:37

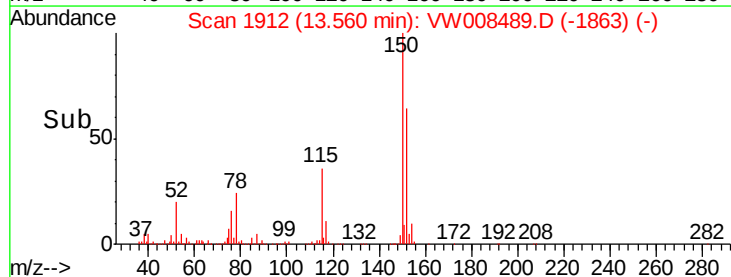
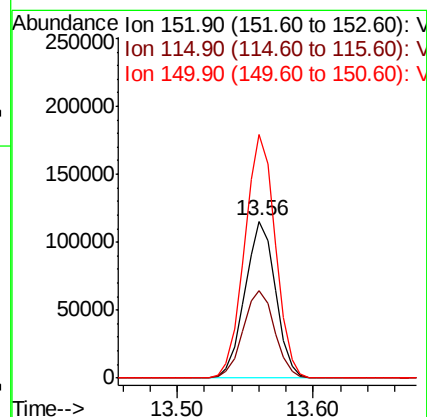
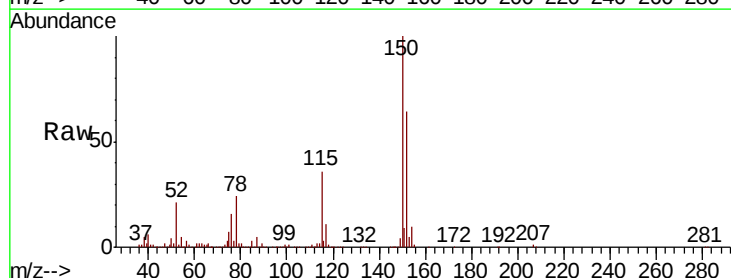
Instrument :
MSVOA_W
ClientSampleId :
OR-02-013119-A

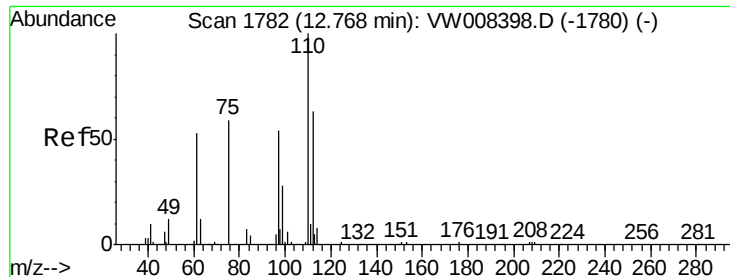
Tgt Ion:106 Resp: 37823
Ion Ratio Lower Upper
106 100
91 206.4 107.5 322.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW008489.D
Acq: 01 Feb 2019 18:37

Tgt Ion:152 Resp: 182023
Ion Ratio Lower Upper
152 100
115 57.6 29.9 89.7
150 156.0 0.0 351.4





#76

1,2,3-Trichloropropane

Concen: 67.141 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008489.D

Acq: 01 Feb 2019 18:37

Instrument :

MSVOA_W

ClientSampleId :

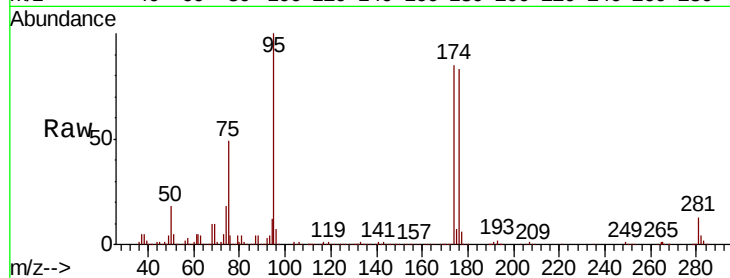
OR-02-013119-A

Tgt Ion: 75 Resp: 106255

Ion Ratio Lower Upper

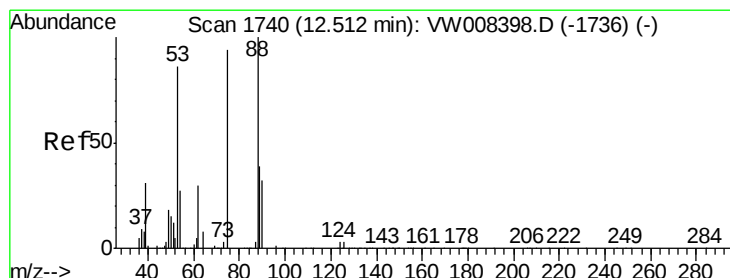
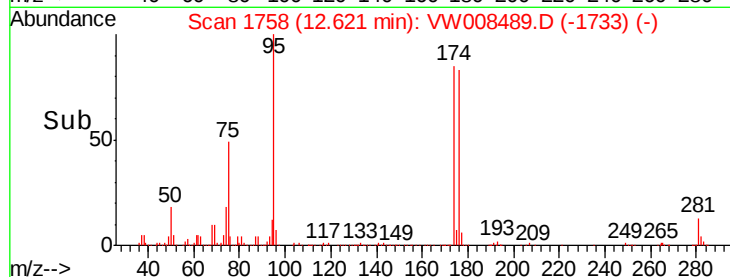
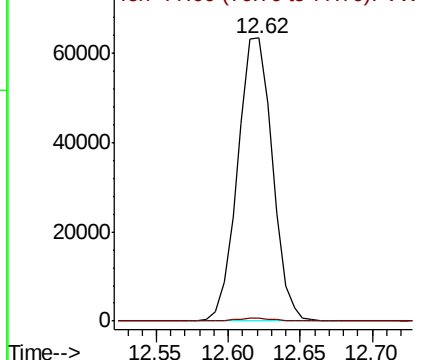
75 100

77 1.4 180.7 542.1#



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: 132.609 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008489.D

Acq: 01 Feb 2019 18:37

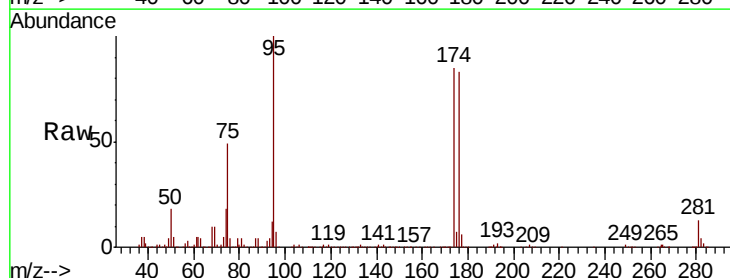
Tgt Ion: 75 Resp: 106255

Ion Ratio Lower Upper

75 100

53 0.3 76.0 114.0#

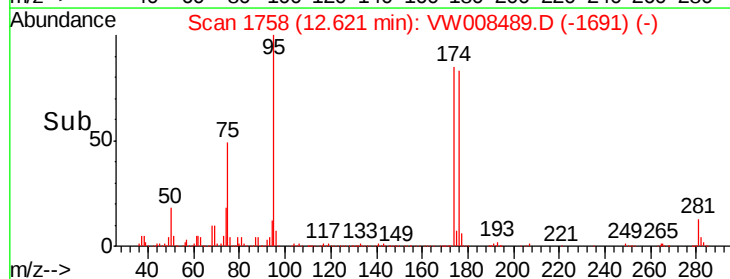
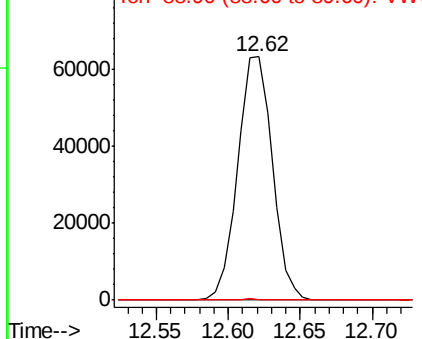
89 0.2 35.4 53.0#

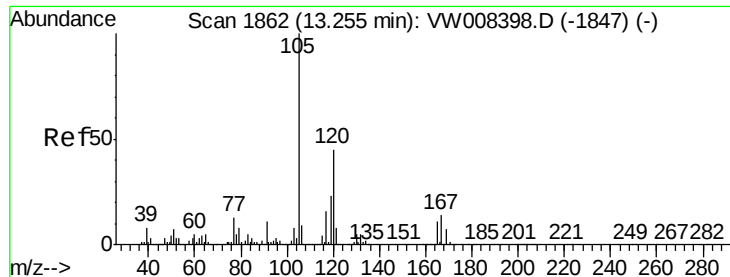


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW





#84

1,2,4-Trimethylbenzene

Concen: 1.265 ug/l

RT: 13.25 min Scan# 1861

Delta R.T. -0.01 min

Lab File: VW008489.D

Acq: 01 Feb 2019 18:37

Instrument :

MSVOA_W

ClientSampleId :

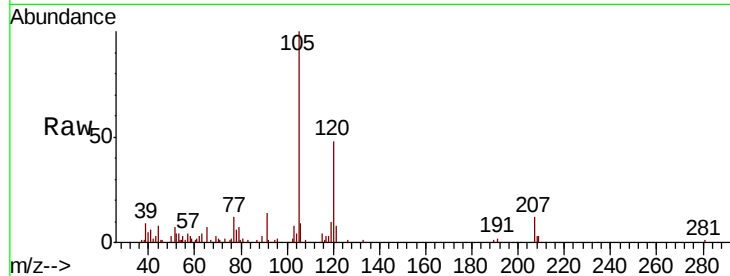
OR-02-013119-A

Tgt Ion:105 Resp: 14578

Ion Ratio Lower Upper

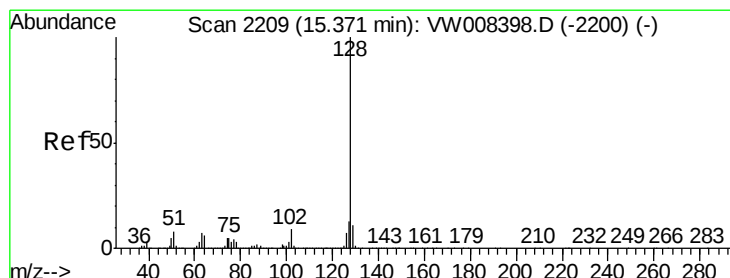
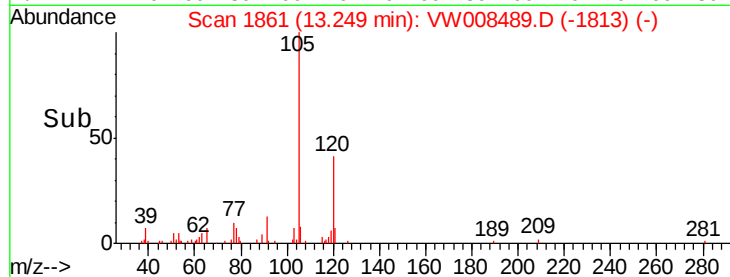
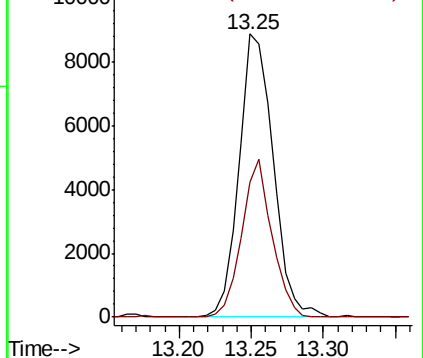
105 100

120 49.2 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 6.837 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW008489.D

Acq: 01 Feb 2019 18:37

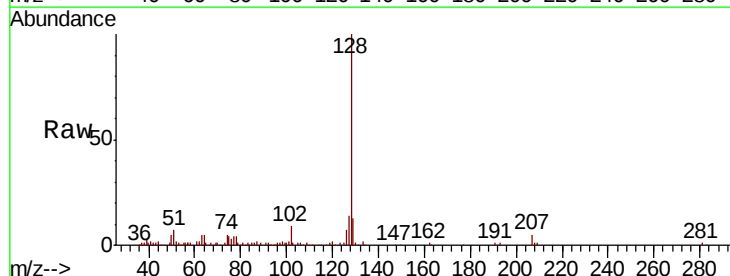
Tgt Ion:128 Resp: 45368

Ion Ratio Lower Upper

128 100

127 13.8 10.6 15.8

129 12.4 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

