

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW012919\
 Data File : VW008449.D
 Acq On : 29 Jan 2019 13:55
 Operator : SY/VA
 Sample : K1010-09RE
 Misc : 6.80G/5ML/MSVOA_W/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 OK-03-012819-BRE

Quant Time: Jan 30 03:12:30 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	398915	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	635377	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	528337	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	205112	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	209355	53.42	ug/l	0.00
Spiked Amount			Recovery	=	106.84%	
35) Dibromofluoromethane	7.88	113	201180	54.15	ug/l	0.00
Spiked Amount			Recovery	=	108.30%	
50) Toluene-d8	10.32	98	731253	49.08	ug/l	0.00
Spiked Amount			Recovery	=	98.16%	
62) 4-Bromofluorobenzene	12.62	95	238737	41.69	ug/l	0.00
Spiked Amount			Recovery	=	83.38%	

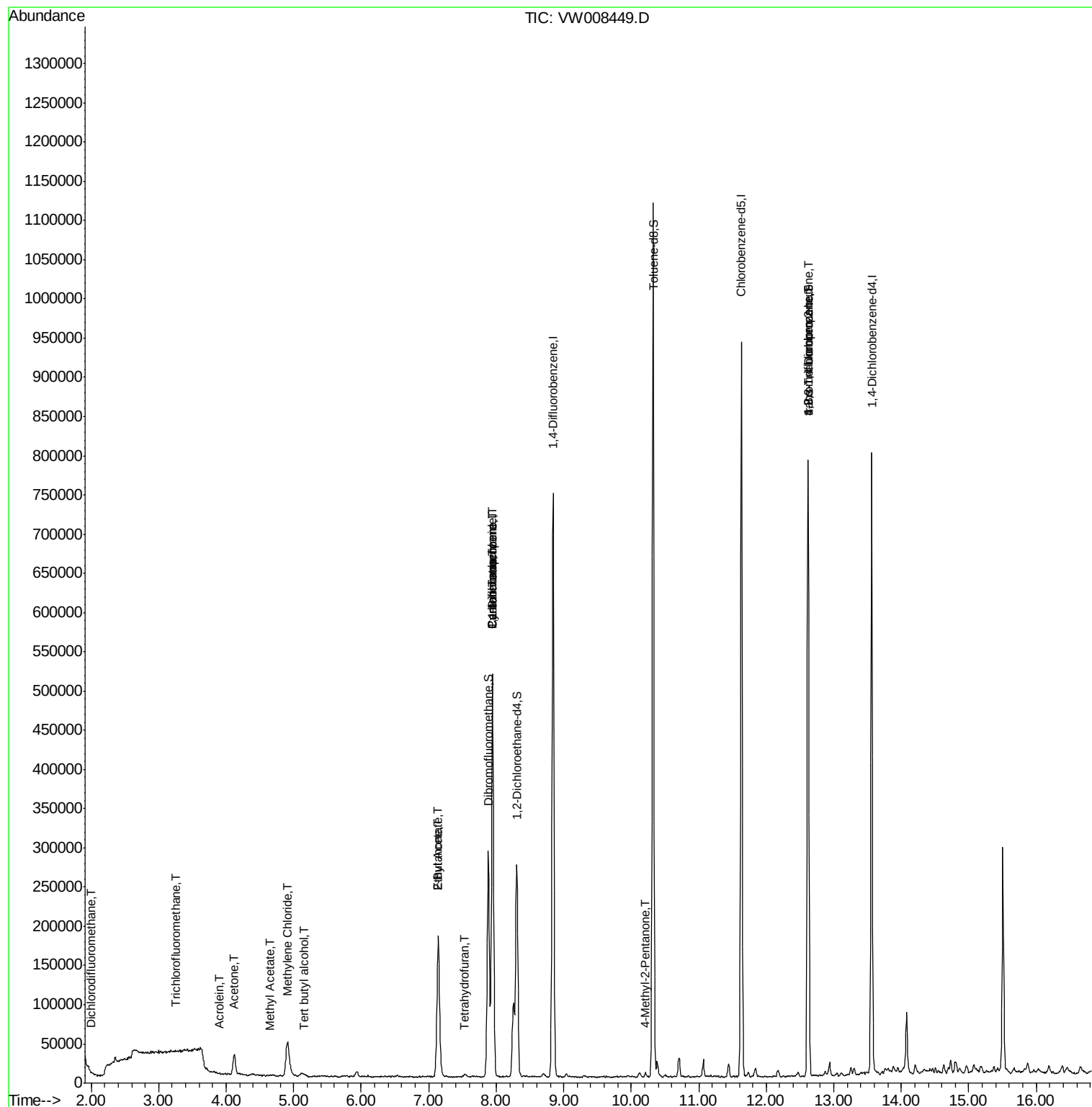
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	299	3.374	ug/l	99
7) Trichlorofluoromethane	3.26	101	452	4.838	ug/l #	59
11) Tert butyl alcohol	5.15	59	669	2.120	ug/l #	1
13) Acrolein	3.89	56	168	4.779	ug/l #	63
16) Acetone	4.12	43	47296	53.742	ug/l	98
18) Methyl Acetate	4.66	43	2876	1.225	ug/l	94
20) Methylene Chloride	4.91	84	38124	9.399	ug/l	93
25) 2-Butanone	7.15	43	12664	10.360	ug/l #	74
29) Tetrahydrofuran	7.53	42	3046	3.932	ug/l	97
31) Cyclohexane	7.95	56	8047	1.046	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	27874	4.644	ug/l #	52
37) Ethyl Acetate	7.15	43	12664	4.769	ug/l #	26
38) Carbon Tetrachloride	7.95	117	37077	6.139	ug/l #	16
51) 4-Methyl-2-Pentanone	10.21	43	3443	1.263	ug/l #	83
76) 1,2,3-Trichloropropane	12.62	75	119865	67.215	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	119865	132.755	ug/l #	12

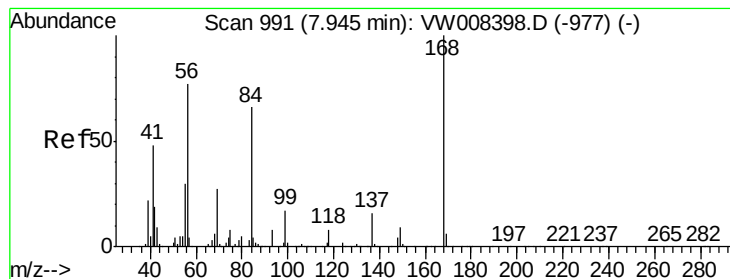
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_W\DATA\VW012919\
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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: VW008449.D

Acq: 29 Jan 2019 13:55

Instrument :

MSVOA_W

ClientSampleId :

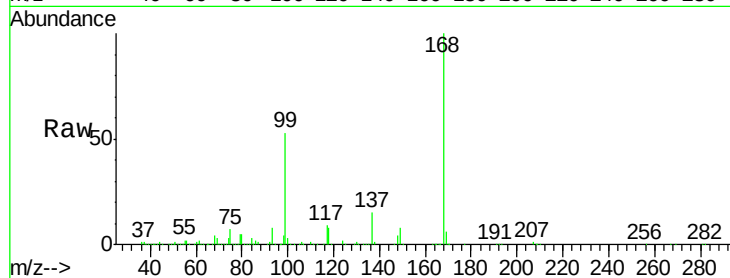
OK-03-012819-BRE

Tgt Ion:168 Resp: 398915

Ion Ratio Lower Upper

168 100

99 52.5 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

200000

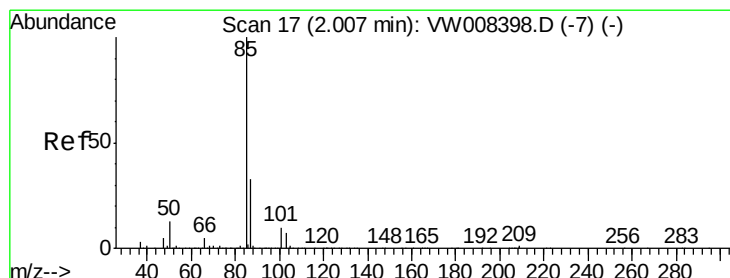
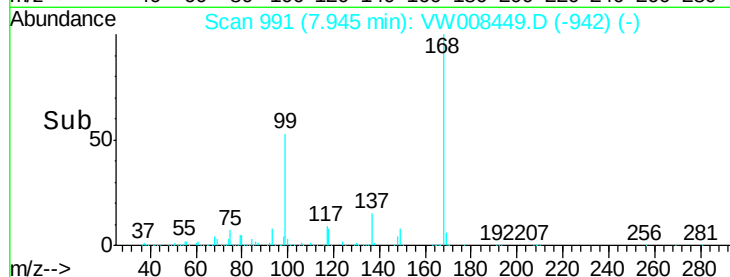
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: 3.374 ug/l

RT: 2.00 min Scan# 16

Delta R.T. -0.01 min

Lab File: VW008449.D

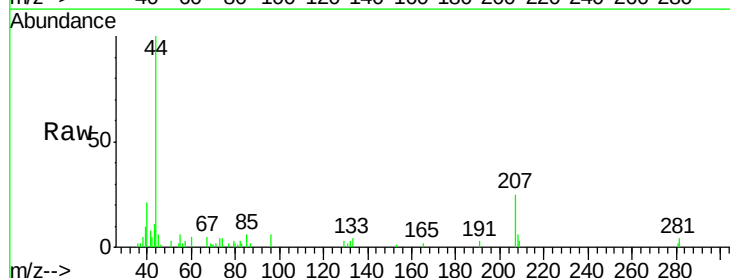
Acq: 29 Jan 2019 13:55

Tgt Ion: 85 Resp: 299

Ion Ratio Lower Upper

85 100

87 32.6 16.7 50.1



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

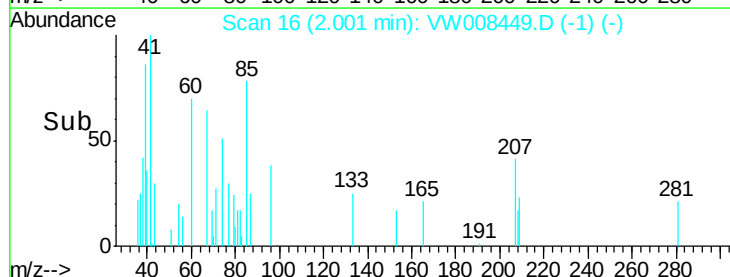
300

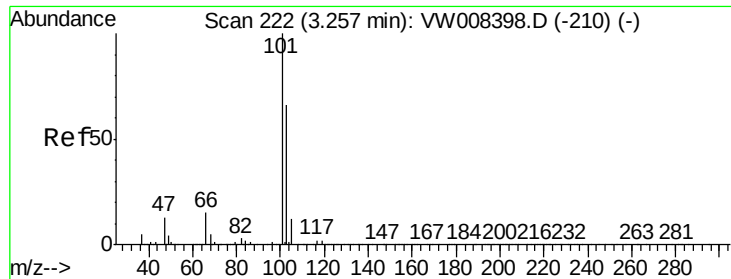
200

100

0

Time--> 1.98 2.00 2.02



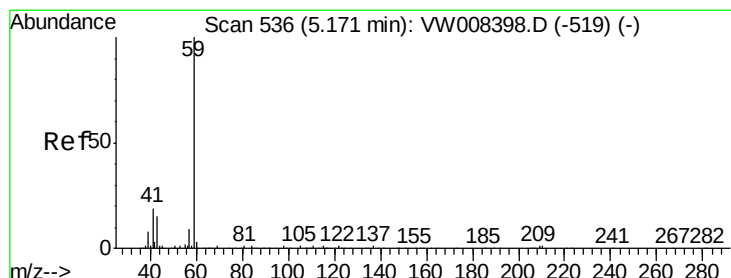
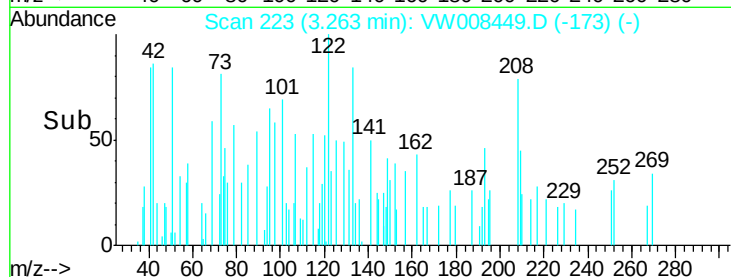
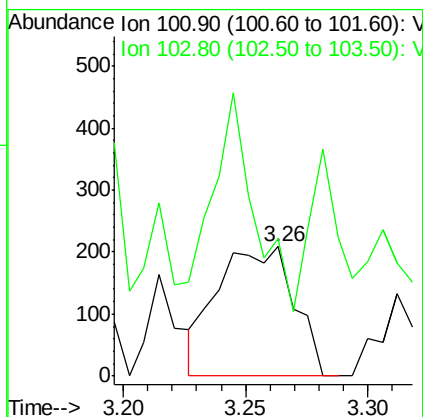
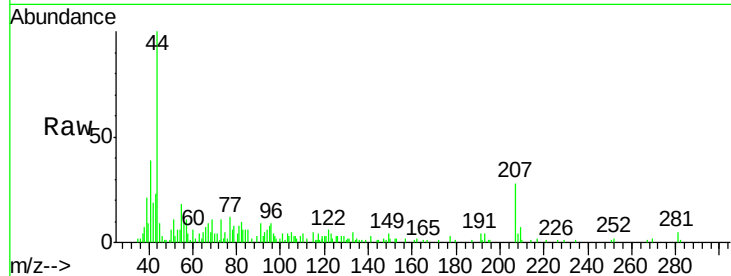


#7

Trichlorofluoromethane
 Concen: 4.838 ug/l
 RT: 3.26 min Scan# 223
 Delta R.T. 0.01 min
 Lab File: VW008449.D
 Acq: 29 Jan 2019 13:55

Instrument :
 MSVOA_W
 ClientSampleId :
 OK-03-012819-BRE

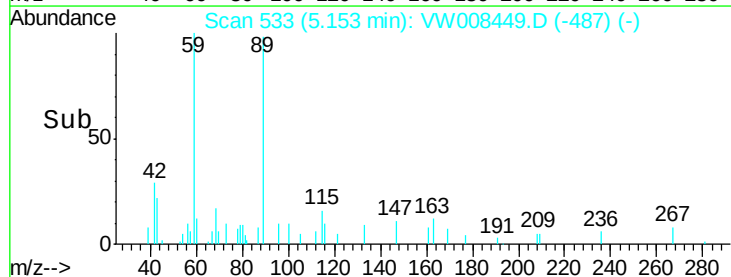
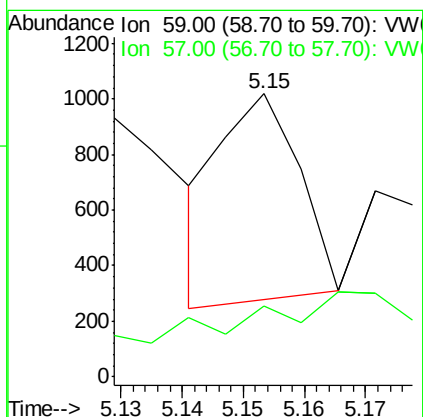
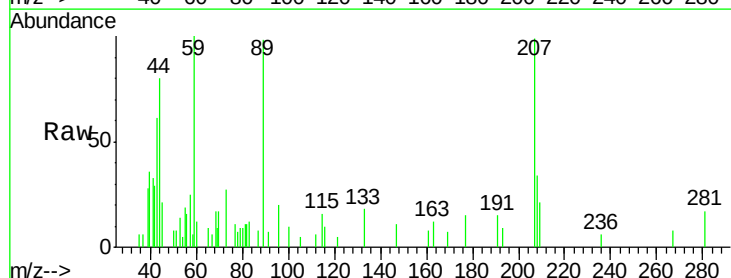
Tgt Ion: 101 Resp: 452
 Ion Ratio Lower Upper
 101 100
 103 33.0 52.5 78.7#

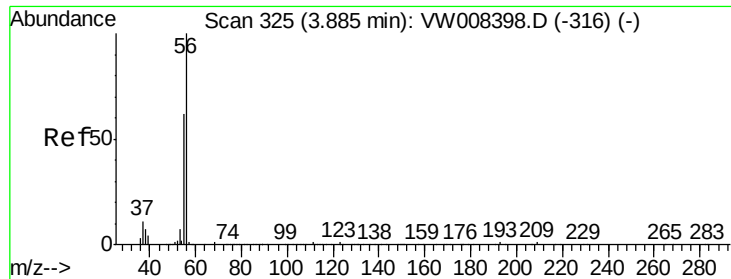


#11

Tert butyl alcohol
 Concen: 2.120 ug/l
 RT: 5.15 min Scan# 533
 Delta R.T. -0.02 min
 Lab File: VW008449.D
 Acq: 29 Jan 2019 13:55

Tgt Ion: 59 Resp: 669
 Ion Ratio Lower Upper
 59 100
 57 71.2 9.3 13.9#





#13

Acrolein

Concen: 4.779 ug/l

RT: 3.89 min Scan# 325

Delta R.T. 0.00 min

Lab File: VW008449.D

Acq: 29 Jan 2019 13:55

Instrument :

MSVOA_W

ClientSampleId :

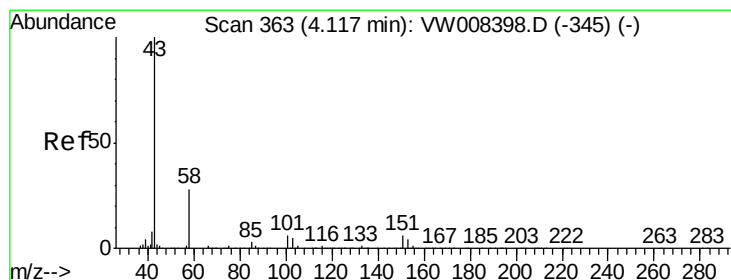
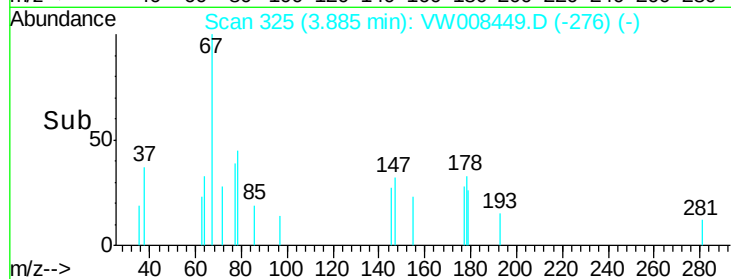
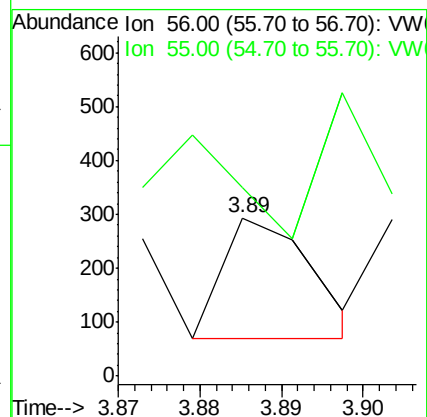
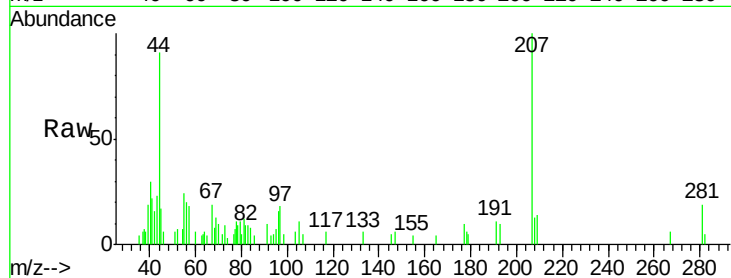
OK-03-012819-BRE

Tgt Ion: 56 Resp: 168

Ion Ratio Lower Upper

56 100

55 101.2 56.7 85.1#



#16

Acetone

Concen: 53.742 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW008449.D

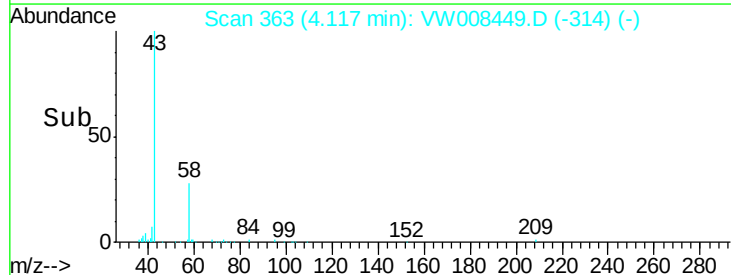
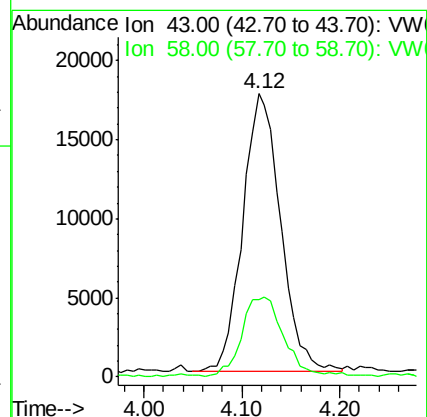
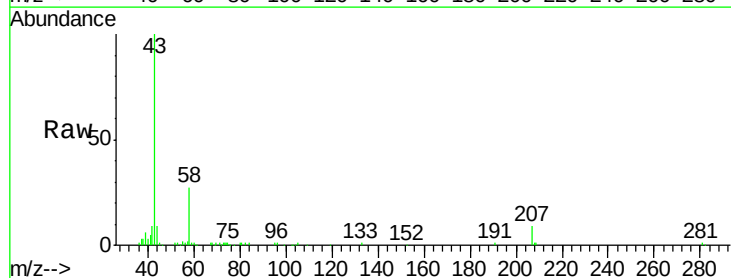
Acq: 29 Jan 2019 13:55

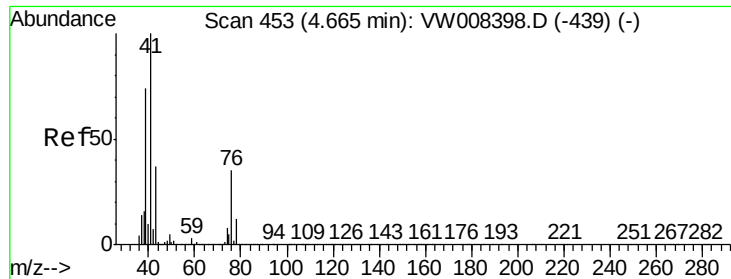
Tgt Ion: 43 Resp: 47296

Ion Ratio Lower Upper

43 100

58 27.4 22.6 34.0

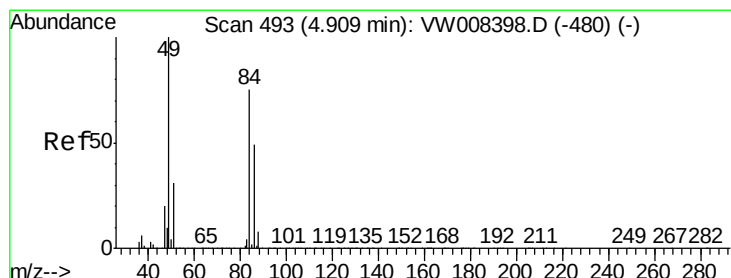
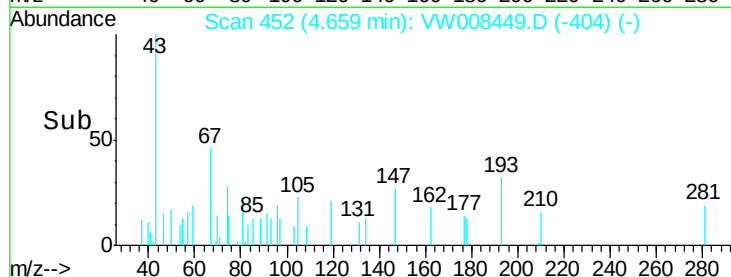
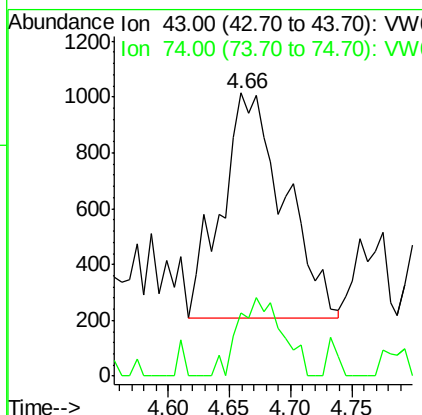
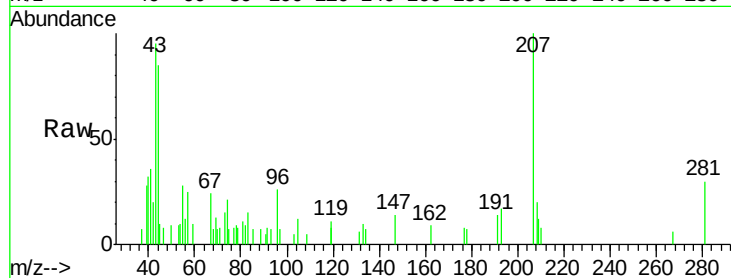




#18
Methyl Acetate
Concen: 1.225 ug/l
RT: 4.66 min Scan# 452
Delta R.T. -0.01 min
Lab File: VW008449.D
Acq: 29 Jan 2019 13:55

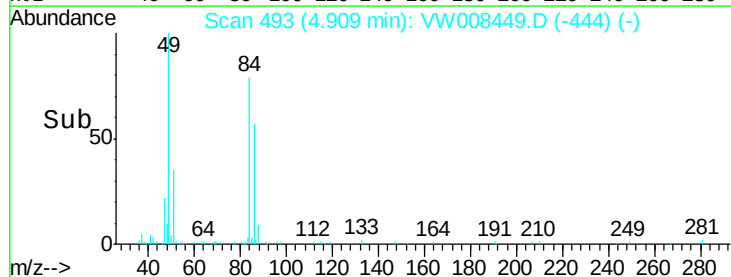
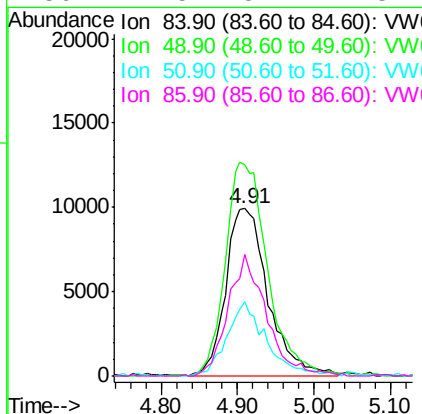
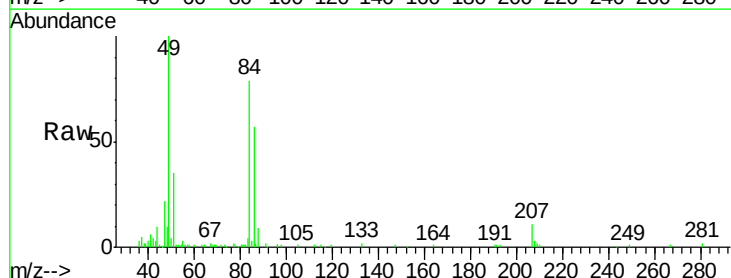
Instrument :
MSVOA_W
ClientSampleId :
OK-03-012819-BRE

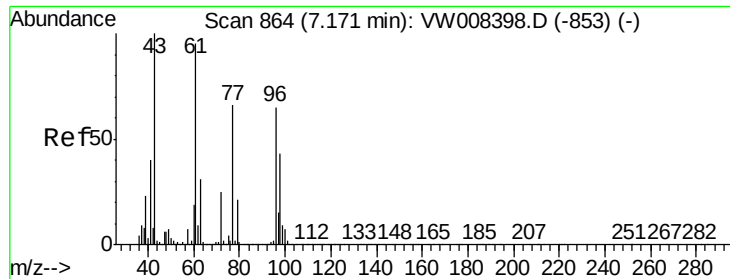
Tgt Ion: 43 Resp: 2876
Ion Ratio Lower Upper
43 100
74 24.8 17.5 26.3



#20
Methylene Chloride
Concen: 9.399 ug/l
RT: 4.91 min Scan# 493
Delta R.T. 0.00 min
Lab File: VW008449.D
Acq: 29 Jan 2019 13:55

Tgt Ion: 84 Resp: 38124
Ion Ratio Lower Upper
84 100
49 126.6 106.8 160.2
51 44.8 32.9 49.3
86 72.5 52.2 78.2





#25

2-Butanone

Concen: 10.360 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW008449.D

Acq: 29 Jan 2019 13:55

Instrument :

MSVOA_W

ClientSampleId :

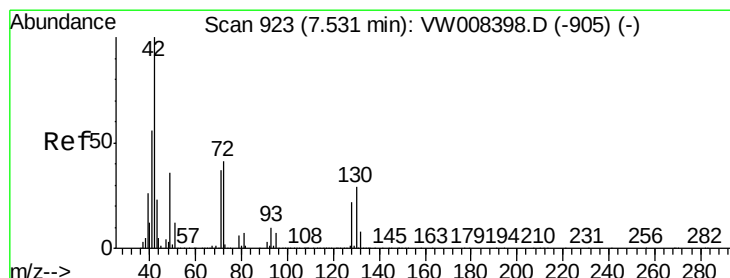
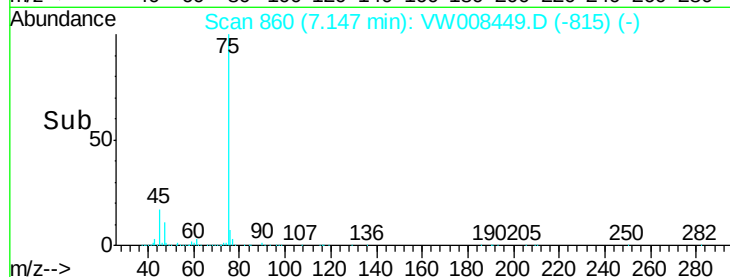
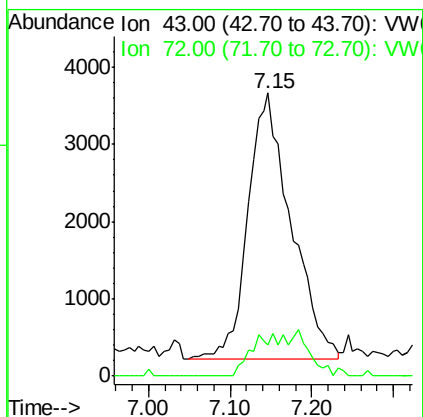
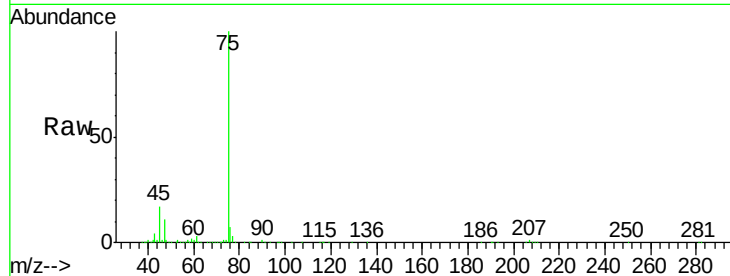
OK-03-012819-BRE

Tgt Ion: 43 Resp: 12664

Ion Ratio Lower Upper

43 100

72 11.9 20.1 30.1#



#29

Tetrahydrofuran

Concen: 3.932 ug/l

RT: 7.53 min Scan# 923

Delta R.T. 0.00 min

Lab File: VW008449.D

Acq: 29 Jan 2019 13:55

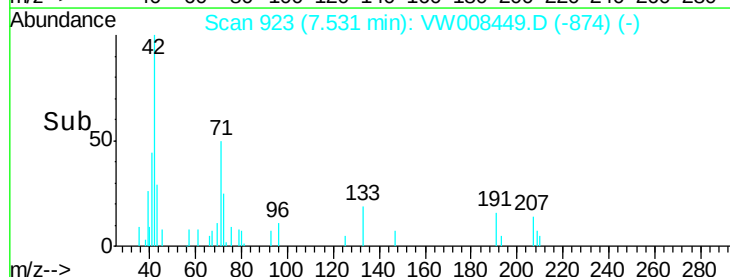
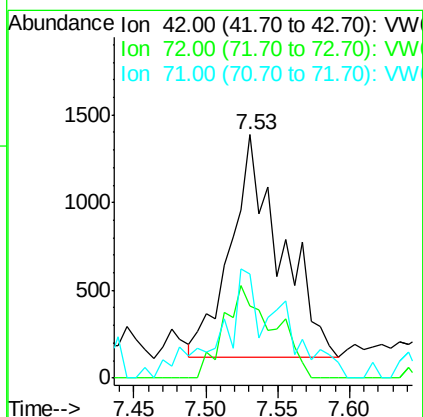
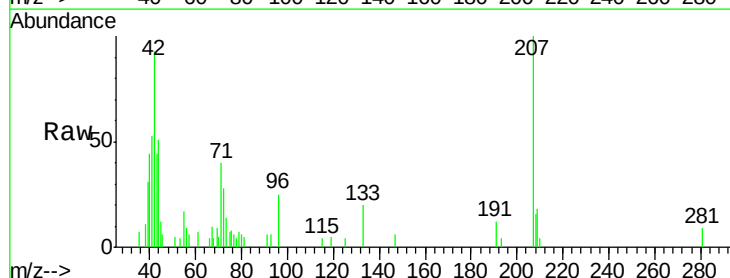
Tgt Ion: 42 Resp: 3046

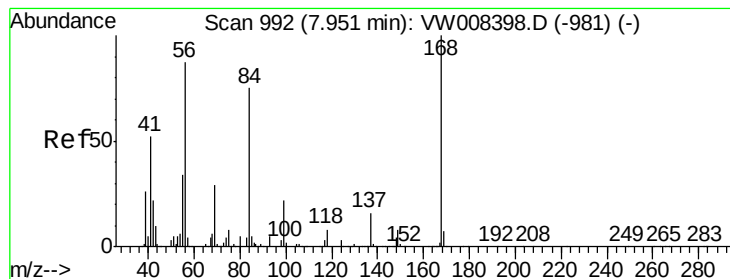
Ion Ratio Lower Upper

42 100

72 41.5 31.9 47.9

71 39.8 29.9 44.9





#31

Cyclohexane

Concen: 1.046 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW008449.D

Acq: 29 Jan 2019 13:55

Instrument :

MSVOA_W

ClientSampleId :

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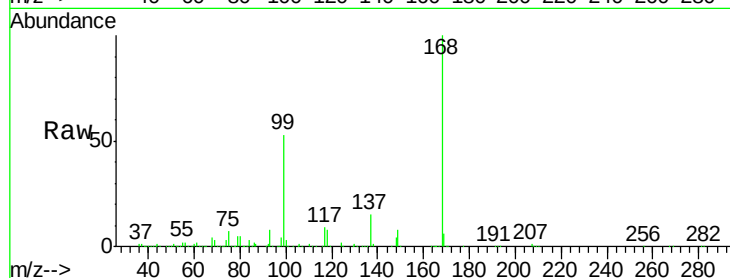
Tgt Ion: 56 Resp: 8047

Ion Ratio Lower Upper

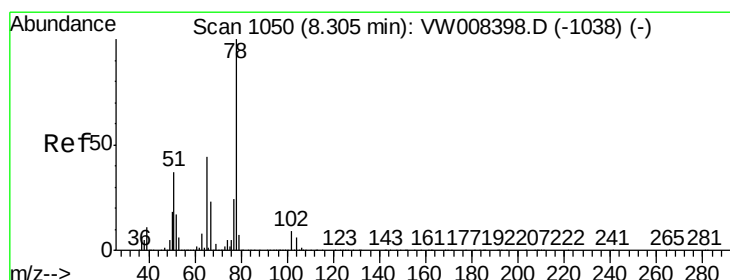
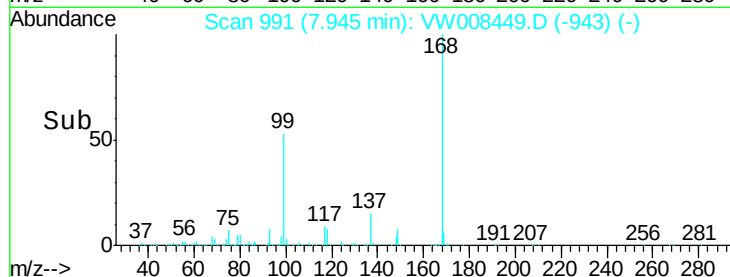
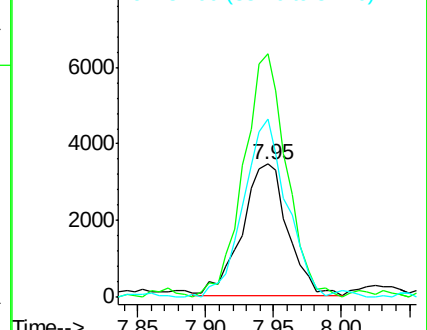
56 100

69 185.8 26.4 39.6#

84 133.9 69.1 103.7#



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: 53.421 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW008449.D

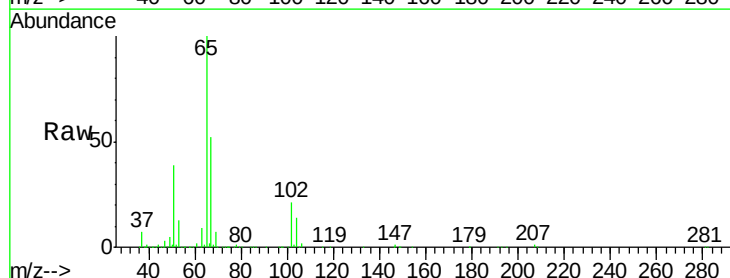
Acq: 29 Jan 2019 13:55

Tgt Ion: 65 Resp: 209355

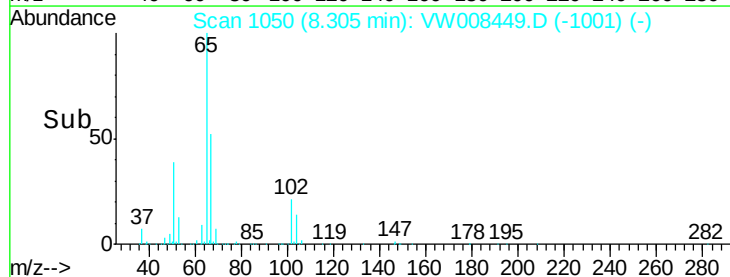
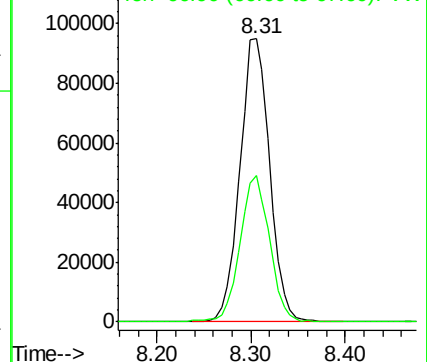
Ion Ratio Lower Upper

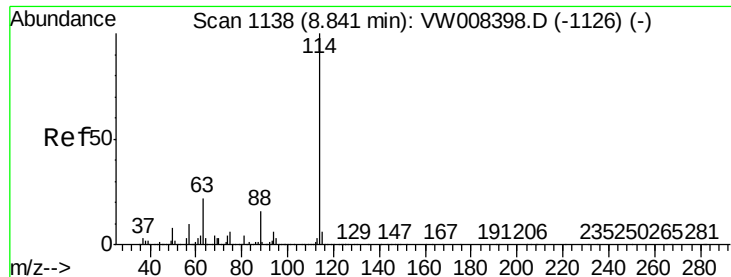
65 100

67 51.6 0.0 104.0



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: VW008449.D

Acq: 29 Jan 2019 13:55

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OK-03-012819-BRE

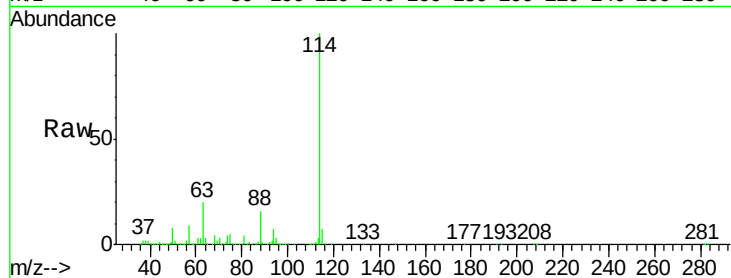
Tgt Ion:114 Resp: 635377

Ion Ratio Lower Upper

114 100

63 19.5 0.0 43.6

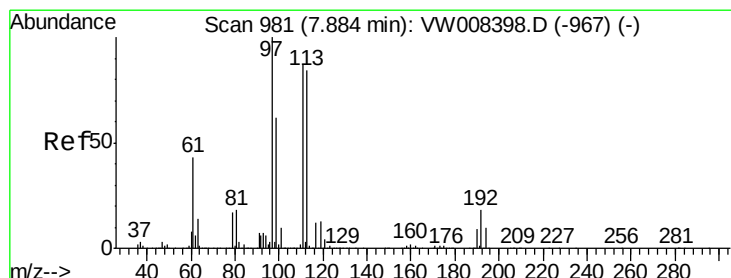
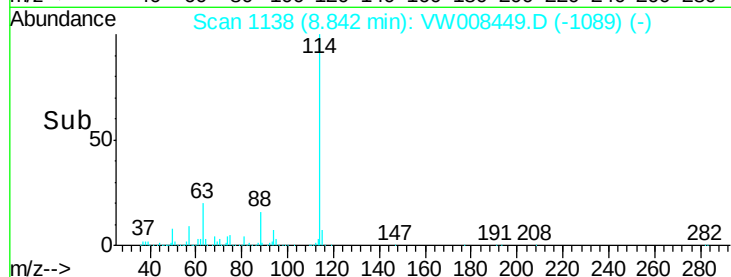
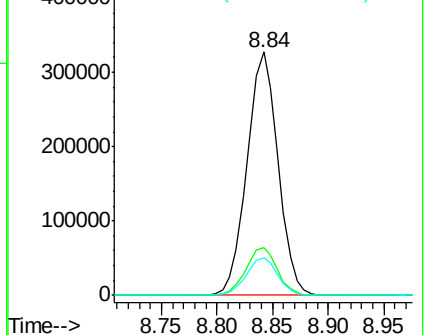
88 15.6 0.0 31.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 54.150 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW008449.D

Acq: 29 Jan 2019 13:55

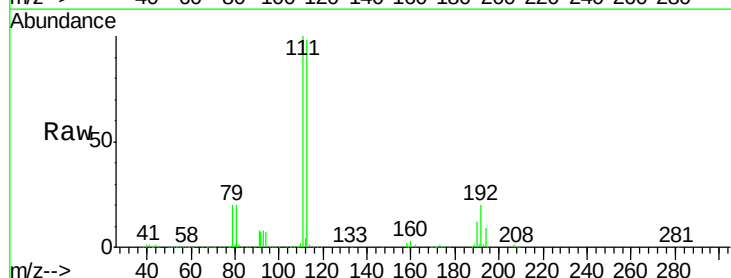
Tgt Ion:113 Resp: 201180

Ion Ratio Lower Upper

113 100

111 102.6 81.0 121.4

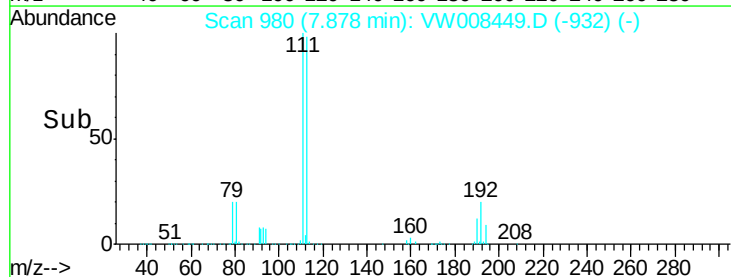
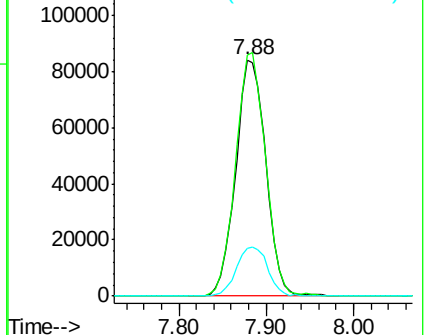
192 21.6 16.8 25.2

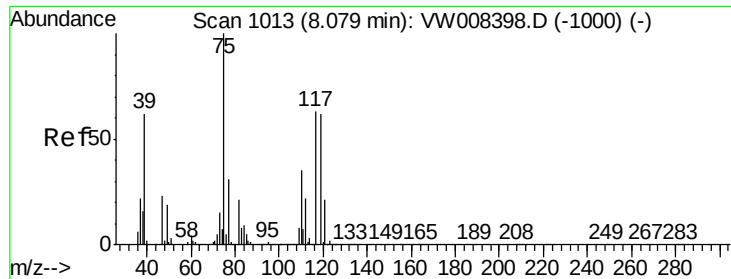


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

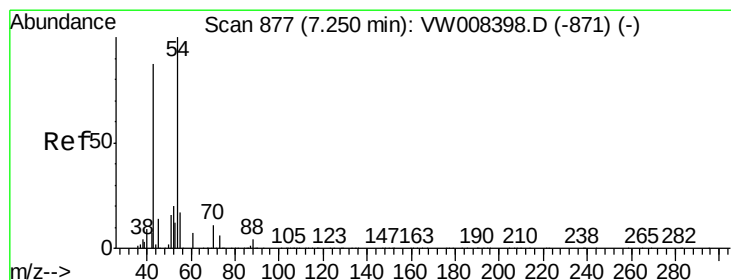
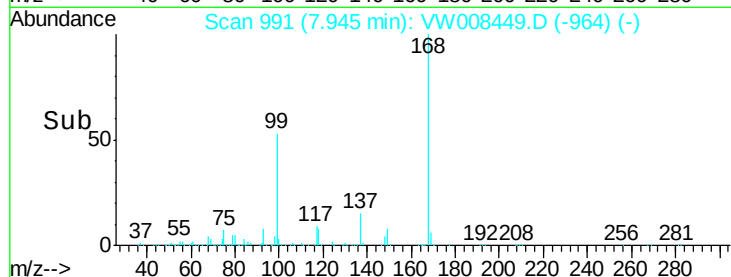
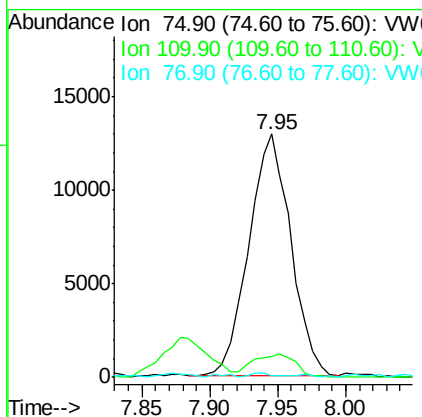
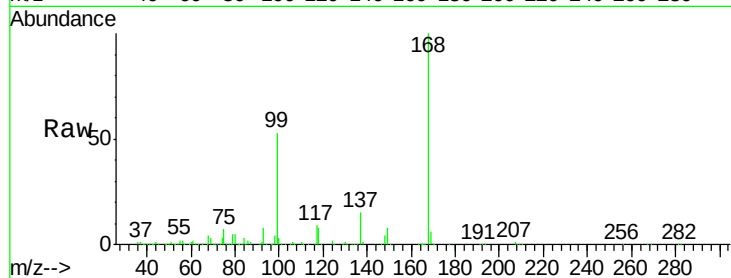




#36
 1,1-Dichloropropene
 Concen: 4.644 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW008449.D
 Acq: 29 Jan 2019 13:55

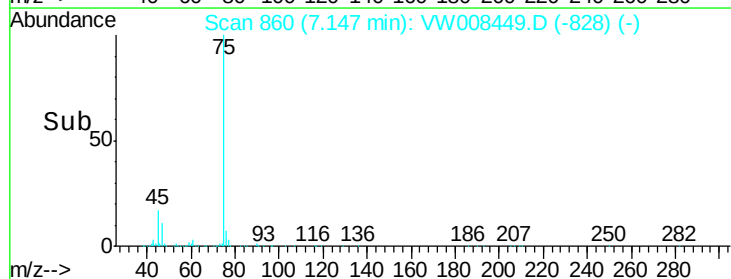
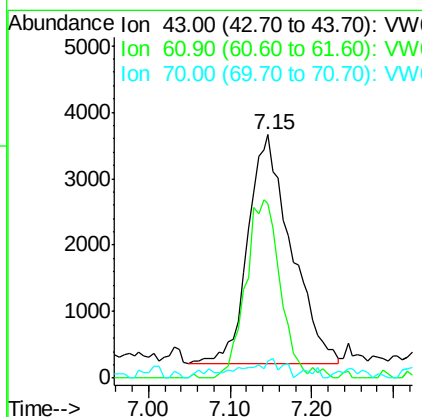
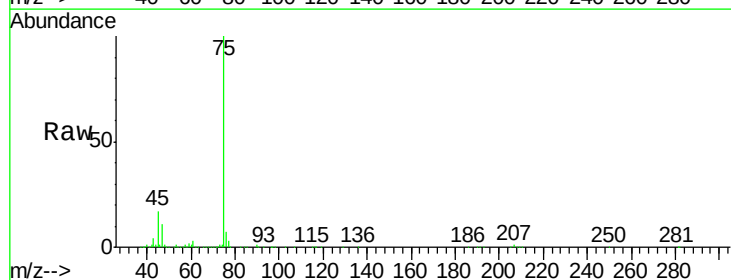
Instrument :
 MSVOA_W
 ClientSampleId :
 OK-03-012819-BRE

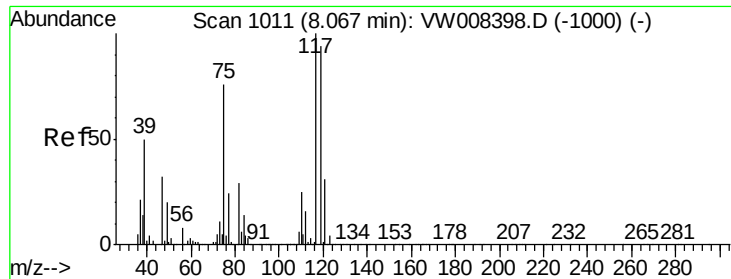
Tgt Ion: 75 Resp: 27874
 Ion Ratio Lower Upper
 75 100
 110 10.2 17.3 52.0#
 77 1.0 24.7 37.1#



#37
 Ethyl Acetate
 Concen: 4.769 ug/l
 RT: 7.15 min Scan# 860
 Delta R.T. -0.10 min
 Lab File: VW008449.D
 Acq: 29 Jan 2019 13:55

Tgt Ion: 43 Resp: 12664
 Ion Ratio Lower Upper
 43 100
 61 61.8 10.1 15.1#
 70 6.8 7.8 11.6#





#38

Carbon Tetrachloride

Concen: 6.139 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW008449.D

Acq: 29 Jan 2019 13:55

Instrument :

MSVOA_W

ClientSampleId :

OK-03-012819-BRE

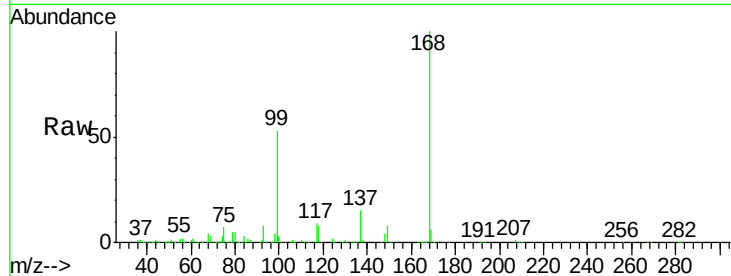
Tgt Ion: 117 Resp: 37077

Ion Ratio Lower Upper

117 100

119 3.7 75.0 112.4#

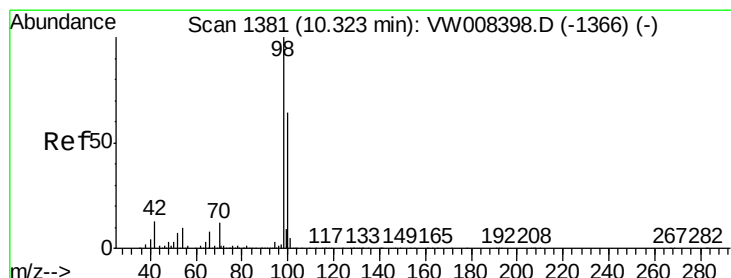
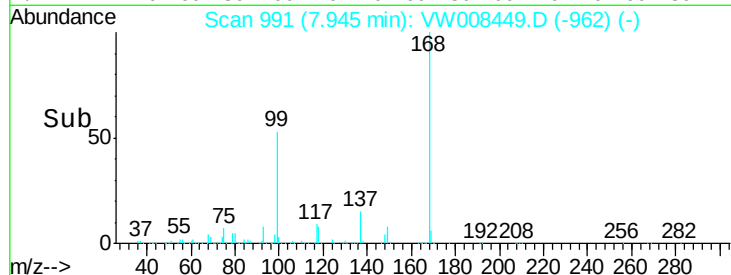
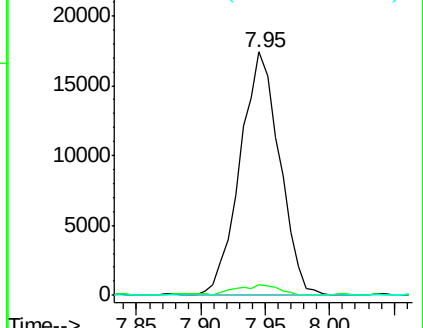
121 0.0 24.9 37.3#



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



#50

Toluene-d8

Concen: 49.083 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008449.D

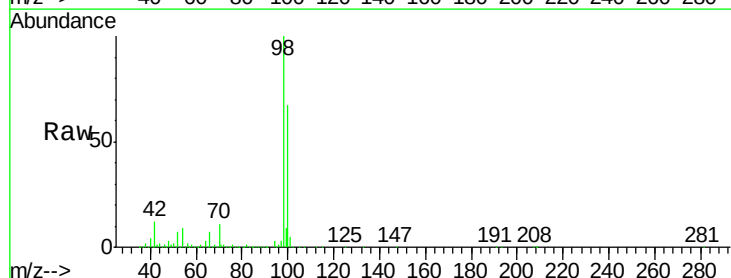
Acq: 29 Jan 2019 13:55

Tgt Ion: 98 Resp: 731253

Ion Ratio Lower Upper

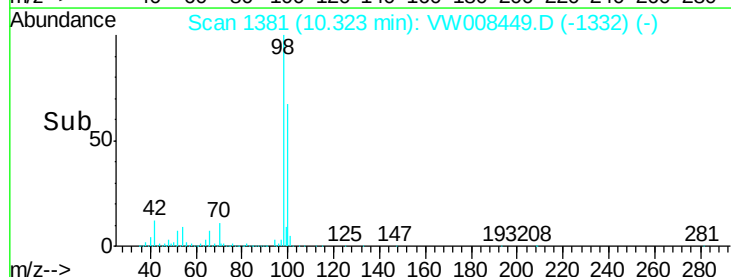
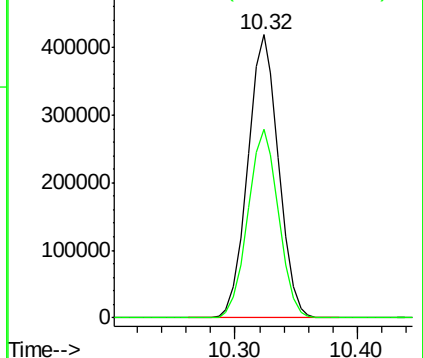
98 100

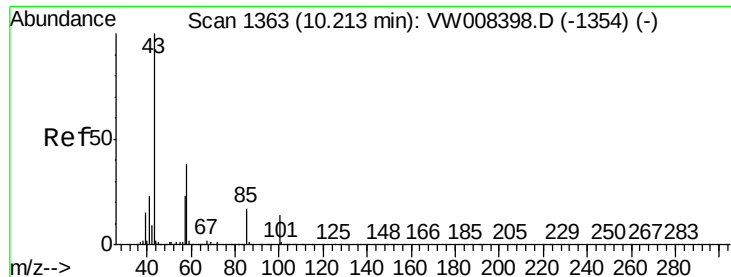
100 66.5 52.6 78.8



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: 1.263 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW008449.D

Acq: 29 Jan 2019 13:55

Instrument :

MSVOA_W

ClientSampleId :

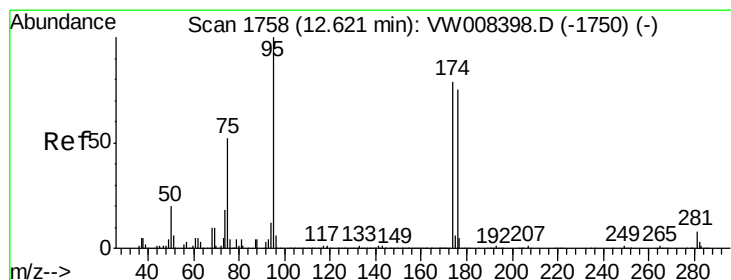
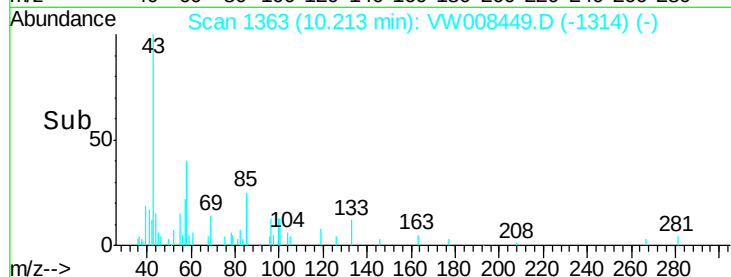
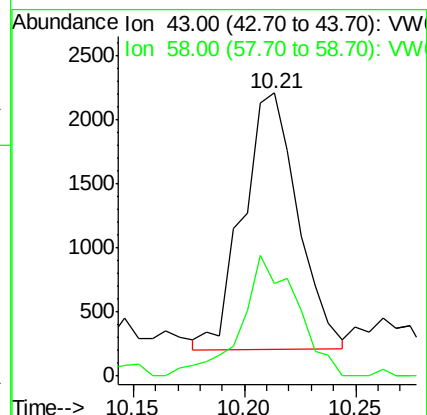
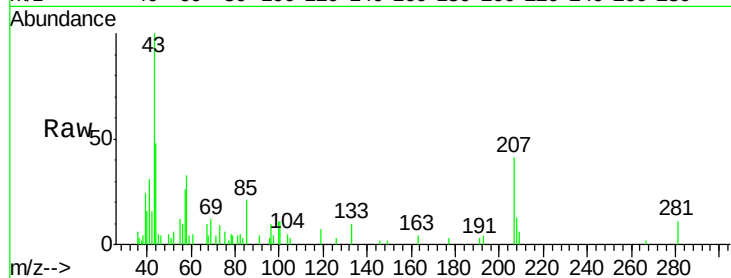
OK-03-012819-BRE

Tgt Ion: 43 Resp: 3443

Ion Ratio Lower Upper

43 100

58 47.4 29.7 44.5#



#62

4-Bromofluorobenzene

Concen: 41.688 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008449.D

Acq: 29 Jan 2019 13:55

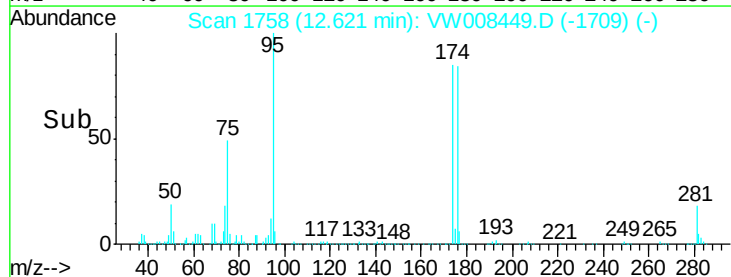
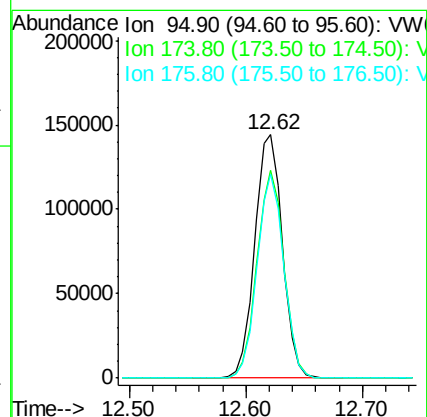
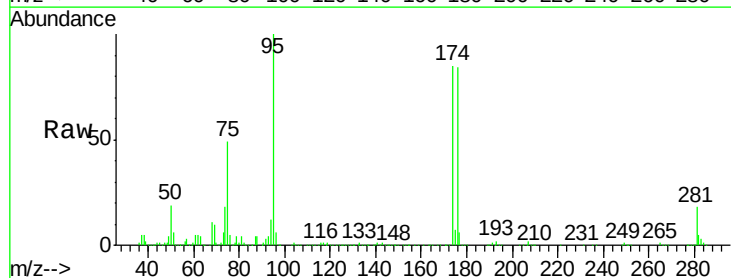
Tgt Ion: 95 Resp: 238737

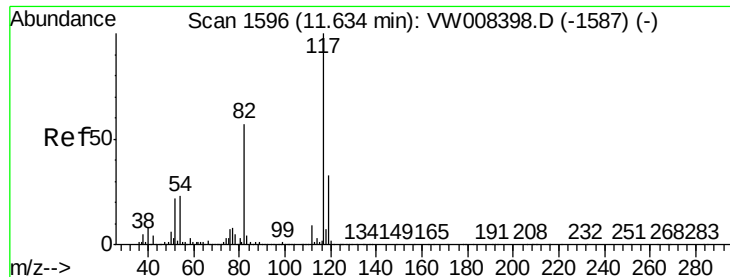
Ion Ratio Lower Upper

95 100

174 83.5 0.0 157.6

176 81.0 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW008449.D

Acq: 29 Jan 2019 13:55

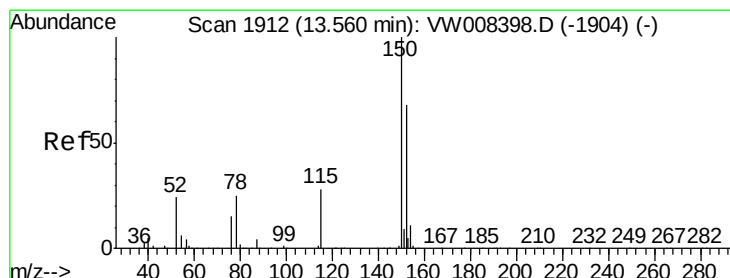
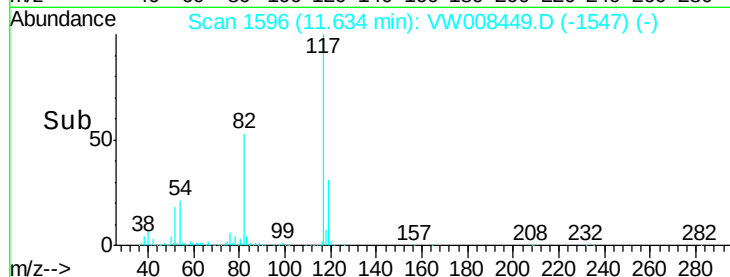
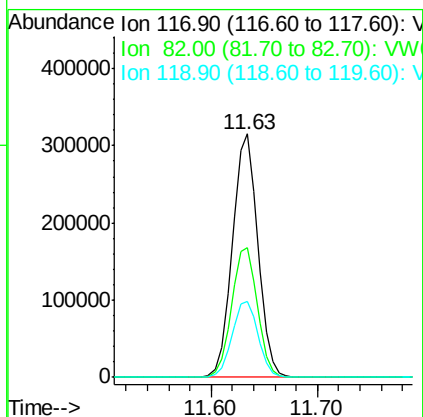
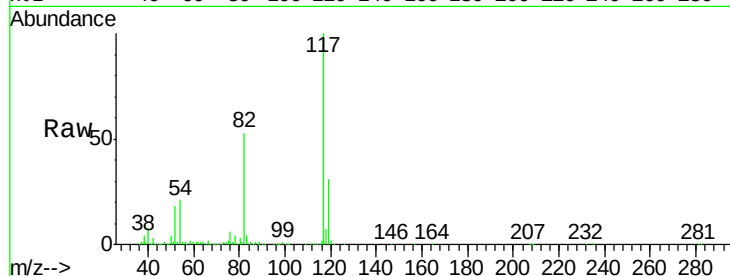
Instrument :

MSVOA_W

ClientSampleId :

OK-03-012819-BRE

Tgt Ion:	117	Resp:	528337
Ion	Ratio	Lower	Upper
117	100		
82	53.5	45.4	68.0
119	31.3	26.2	39.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

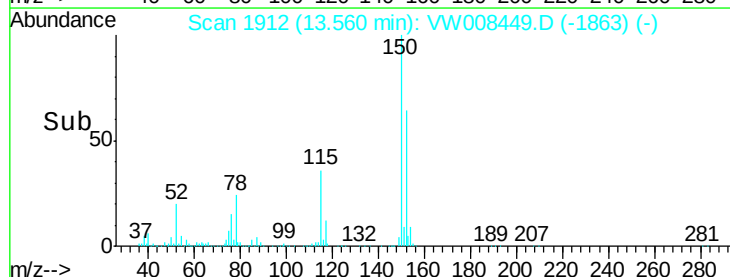
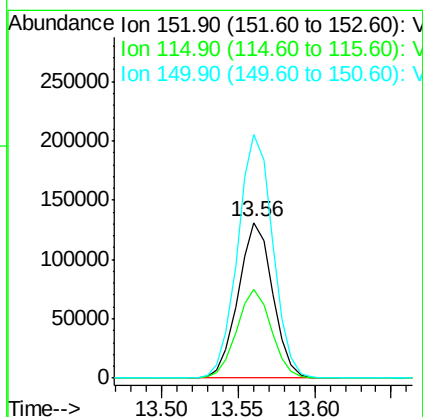
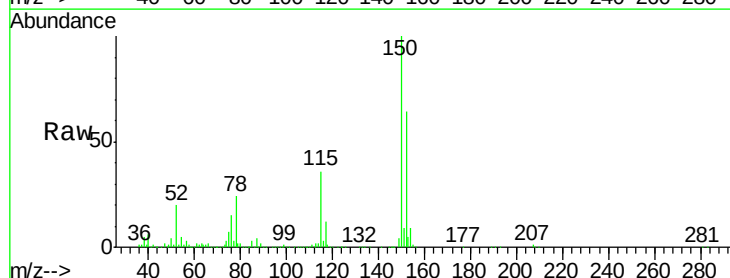
RT: 13.56 min Scan# 1912

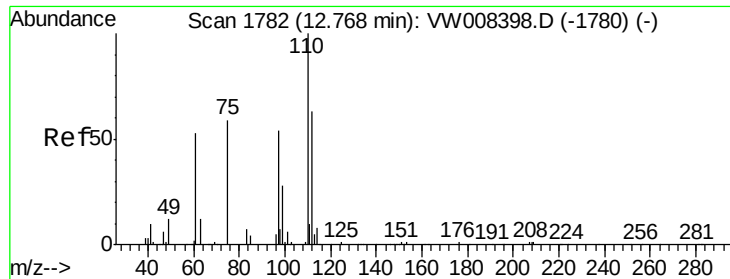
Delta R.T. 0.00 min

Lab File: VW008449.D

Acq: 29 Jan 2019 13:55

Tgt Ion:	152	Resp:	205112
Ion	Ratio	Lower	Upper
152	100		
115	57.1	29.9	89.7
150	159.0	0.0	351.4

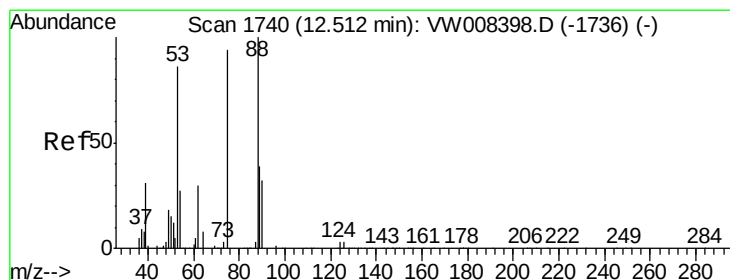
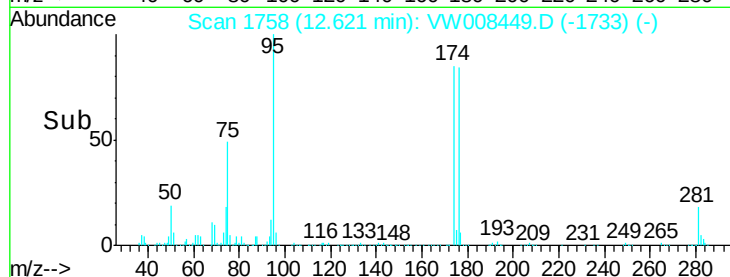
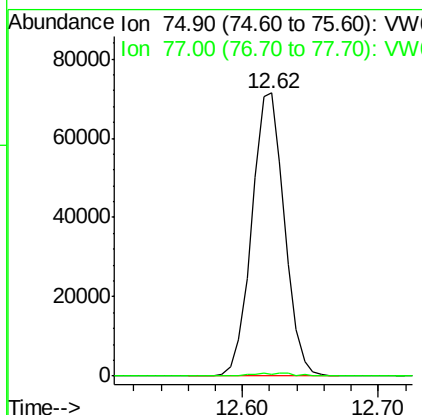
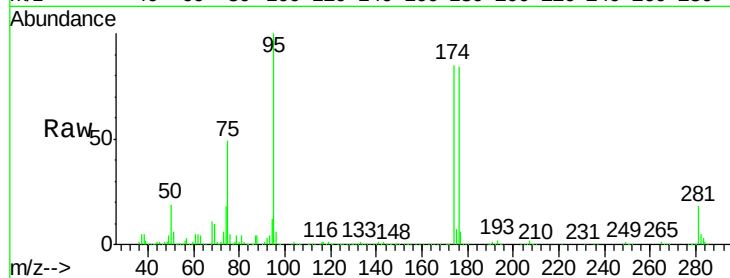




#76
 1,2,3-Trichloropropane
 Concen: 67.215 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.15 min
 Lab File: VW008449.D
 Acq: 29 Jan 2019 13:55

Instrument :
 MSVOA_W
 ClientSampleId :
 OK-03-012819-BRE

Tgt Ion: 75 Resp: 119865
 Ion Ratio Lower Upper
 75 100
 77 1.3 180.7 542.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 132.755 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.11 min
 Lab File: VW008449.D
 Acq: 29 Jan 2019 13:55

Tgt Ion: 75 Resp: 119865
 Ion Ratio Lower Upper
 75 100
 53 0.2 76.0 114.0#
 89 0.2 35.4 53.0#

