

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW021919\
 Data File : VW008749.D
 Acq On : 19 Feb 2019 17:26
 Operator : SY/VA
 Sample : K1349-09
 Misc : 6.25G/5ML/MSVOA_W/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 OR-02-021919-A

Quant Time: Feb 20 06:51:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 04:06:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	367932	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	559284	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	470326	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	201795	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	193153	50.50	ug/l	0.00
Spiked Amount			Recovery	=	101.00%	
35) Dibromofluoromethane	7.88	113	179341	51.64	ug/l	0.00
Spiked Amount			Recovery	=	103.28%	
50) Toluene-d8	10.32	98	656430	49.03	ug/l	0.00
Spiked Amount			Recovery	=	98.06%	
62) 4-Bromofluorobenzene	12.62	95	208852	41.42	ug/l	0.00
Spiked Amount			Recovery	=	82.84%	

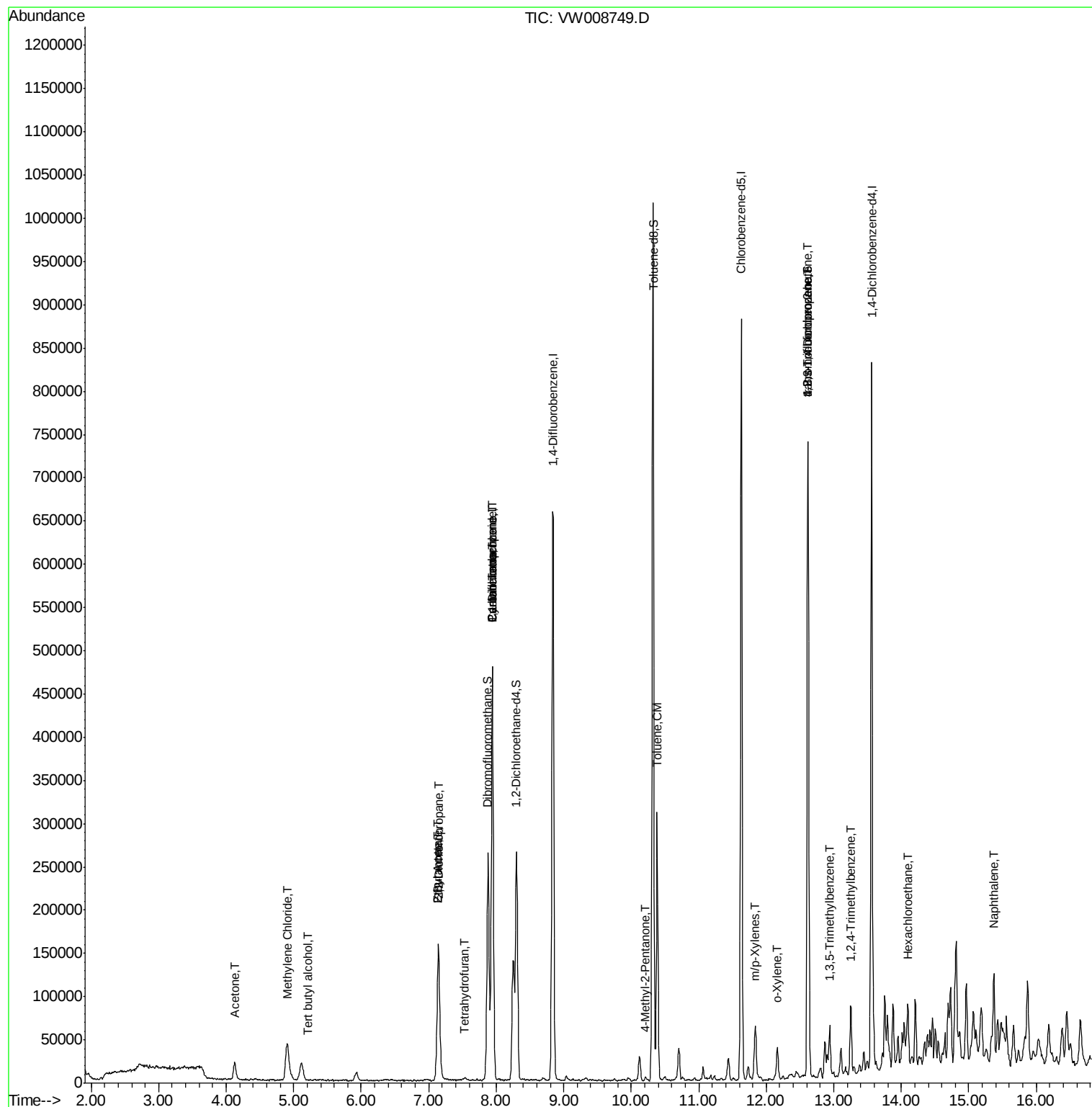
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.20	59	609	1.990	ug/l #	30
16) Acetone	4.13	43	35314	40.570	ug/l	98
20) Methylene Chloride	4.90	84	37011	2.825	ug/l	91
25) 2-Butanone	7.13	43	11483	9.343	ug/l #	70
26) 2,2-Dichloropropane	7.14	77	9823	2.269	ug/l #	52
29) Tetrahydrofuran	7.54	42	2770	3.419	ug/l	92
31) Cyclohexane	7.95	56	8401	1.201	ug/l #	22
36) 1,1-Dichloropropene	7.94	75	26144	4.653	ug/l #	51
37) Ethyl Acetate	7.13	43	11483	4.236	ug/l #	17
38) Carbon Tetrachloride	7.94	117	35266	6.312	ug/l #	17
51) 4-Methyl-2-Pentanone	10.21	43	3192	1.150	ug/l	92
52) Toluene	10.38	92	128843	13.014	ug/l	98
68) m/p-Xylenes	11.83	106	17024	2.423	ug/l	96
69) o-Xylene	12.16	106	8854	1.333	ug/l	97
76) 1,2,3-Trichloropropane	12.62	75	112164	56.290	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.94	105	16070	1.287	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.62	75	112164	120.373	ug/l #	7
84) 1,2,4-Trimethylbenzene	13.25	105	44399	3.460	ug/l	98
90) Hexachloroethane	14.10	117	3465	1.404	ug/l #	11
95) Naphthalene	15.37	128	81153	10.251	ug/l	97

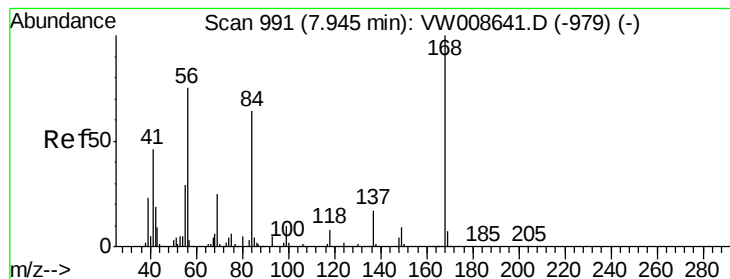
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Feb 14 04:06:50 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: VW008749.D

Acq: 19 Feb 2019 17:26

Instrument :

MSVOA_W

ClientSampleId :

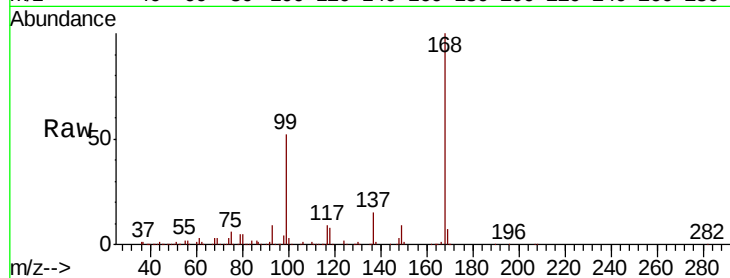
OR-02-021919-A

Tgt Ion:168 Resp: 367932

Ion Ratio Lower Upper

168 100

99 51.8 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

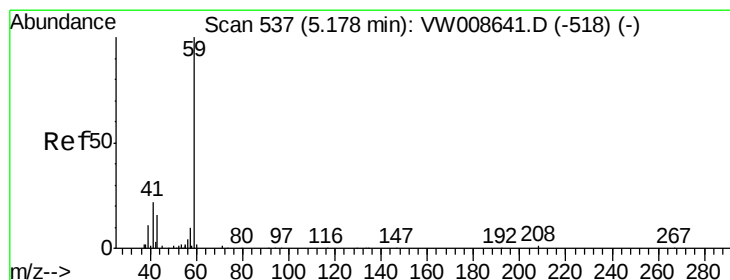
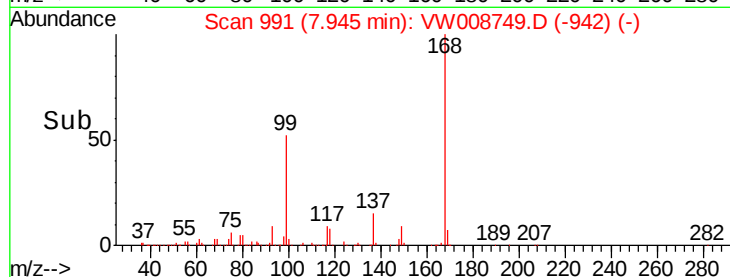
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.990 ug/l

RT: 5.20 min Scan# 541

Delta R.T. 0.02 min

Lab File: VW008749.D

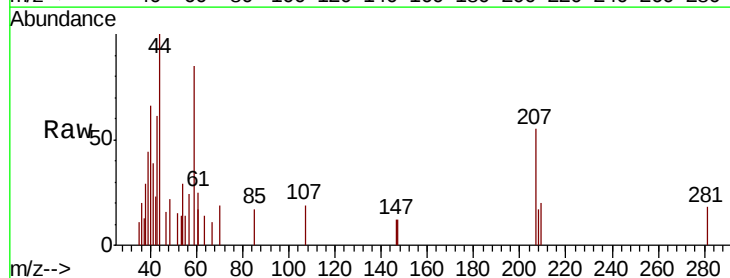
Acq: 19 Feb 2019 17:26

Tgt Ion: 59 Resp: 609

Ion Ratio Lower Upper

59 100

57 36.5 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

800

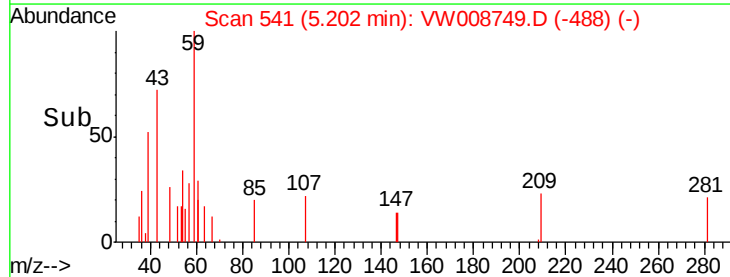
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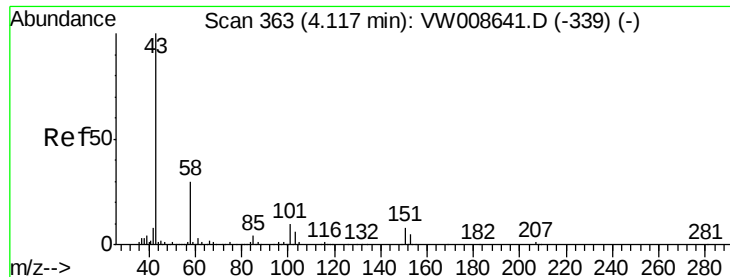
400

200

0

Time-->





#16

Acetone

Concen: 40.570 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW008749.D

Acq: 19 Feb 2019 17:26

Instrument :

MSVOA_W

ClientSampleId :

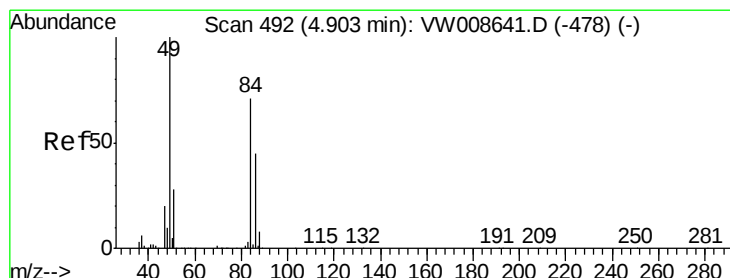
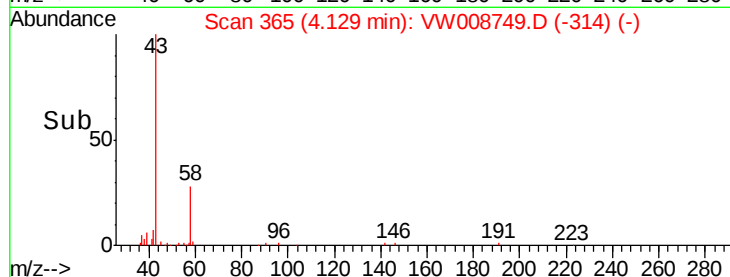
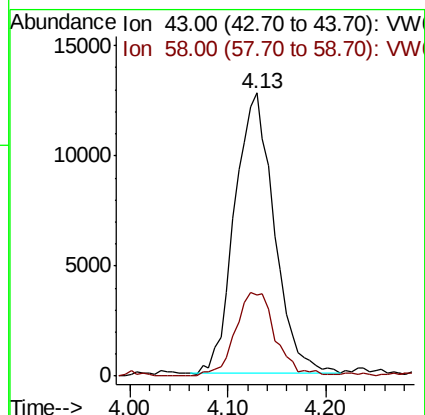
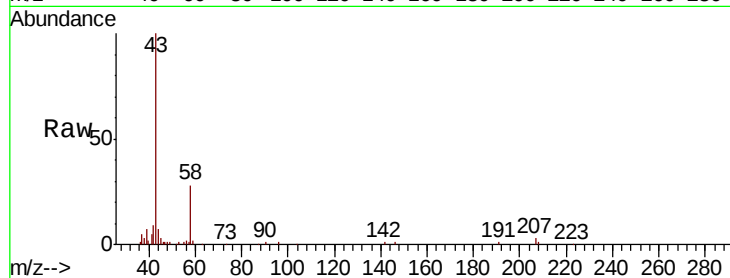
OR-02-021919-A

Tgt Ion: 43 Resp: 35314

Ion Ratio Lower Upper

43 100

58 28.8 24.1 36.1



#20

Methylene Chloride

Concen: 2.825 ug/l

RT: 4.90 min Scan# 492

Delta R.T. 0.00 min

Lab File: VW008749.D

Acq: 19 Feb 2019 17:26

Tgt Ion: 84 Resp: 37011

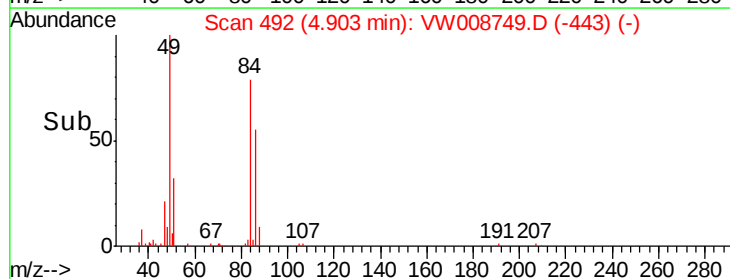
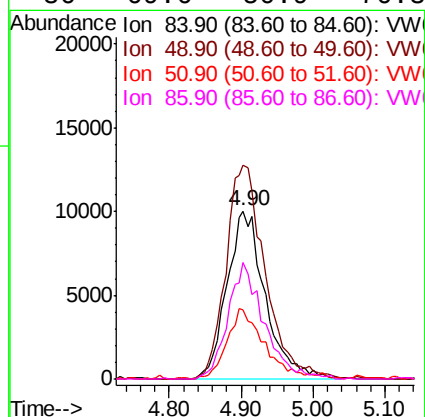
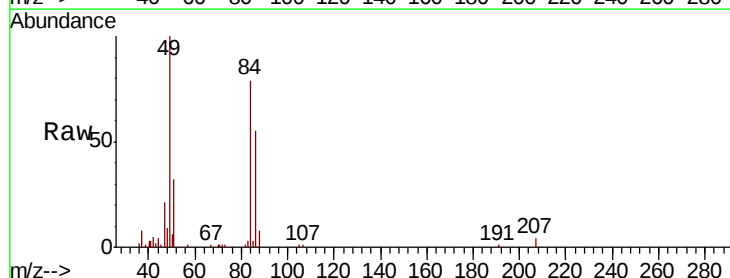
Ion Ratio Lower Upper

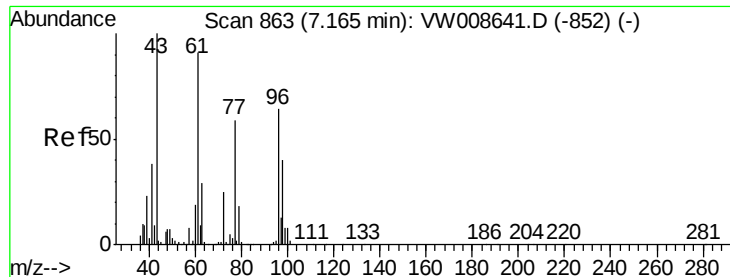
84 100

49 127.1 113.3 169.9

51 41.1 32.1 48.1

86 69.6 50.9 76.3

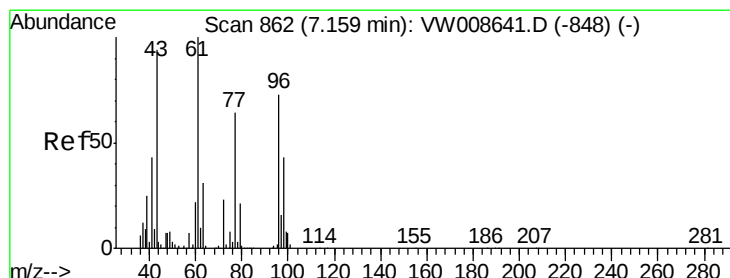
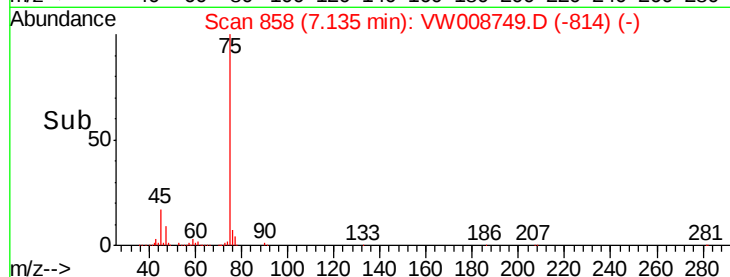
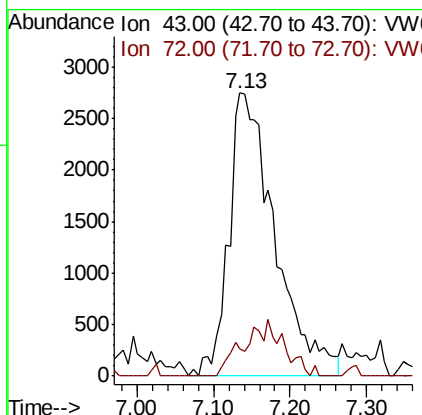
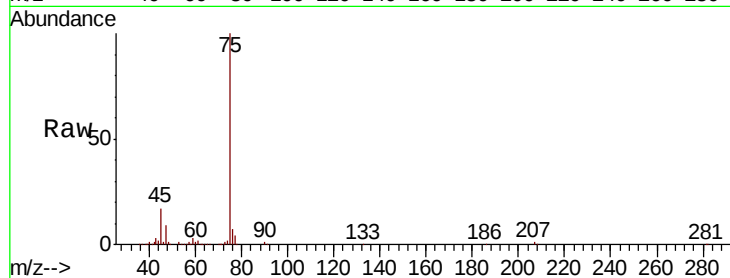




#25
 2-Butanone
 Concen: 9.343 ug/l
 RT: 7.13 min Scan# 858
 Delta R.T. -0.03 min
 Lab File: VW008749.D
 Acq: 19 Feb 2019 17:26

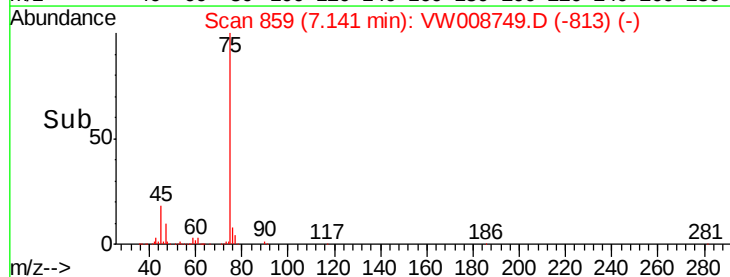
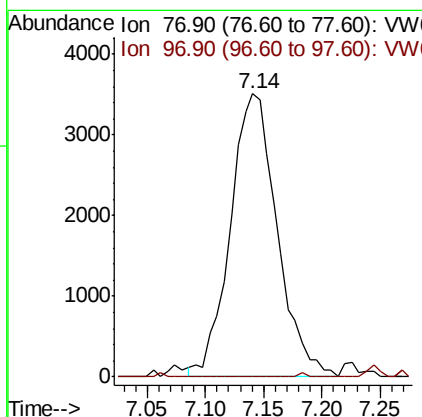
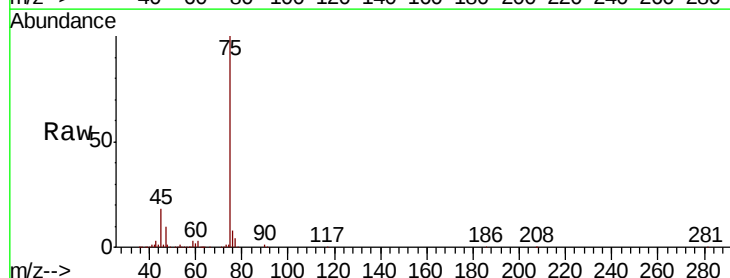
Instrument :
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 OR-02-021919-A

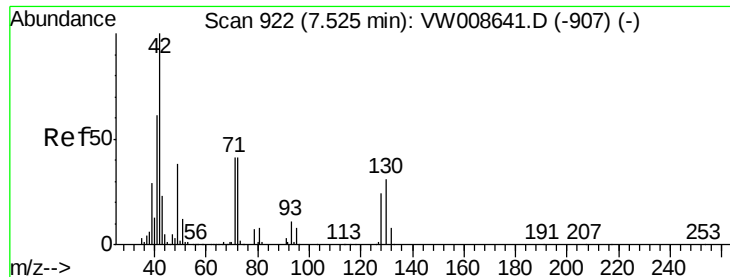
Tgt Ion: 43 Resp: 11483
 Ion Ratio Lower Upper
 43 100
 72 9.9 19.7 29.5#



#26
 2,2-Dichloropropane
 Concen: 2.269 ug/l
 RT: 7.14 min Scan# 859
 Delta R.T. -0.02 min
 Lab File: VW008749.D
 Acq: 19 Feb 2019 17:26

Tgt Ion: 77 Resp: 9823
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.7 35.0#





#29

Tetrahydrofuran

Concen: 3.419 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW008749.D

Acq: 19 Feb 2019 17:26

Instrument :

MSVOA_W

ClientSampleId :

OR-02-021919-A

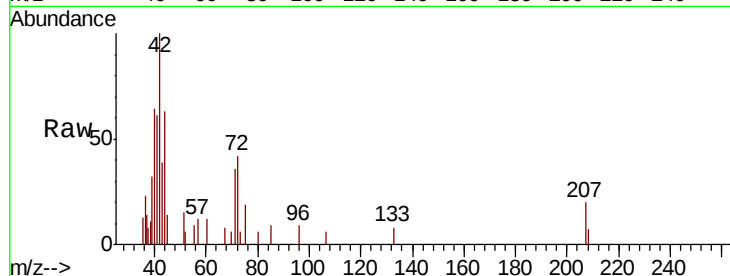
Tgt Ion: 42 Resp: 2770

Ion Ratio Lower Upper

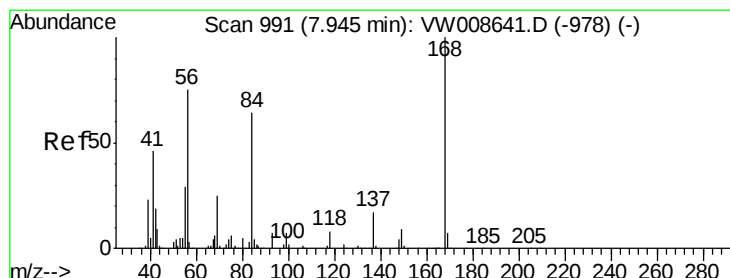
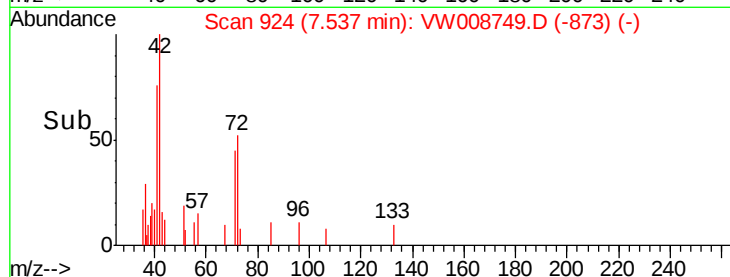
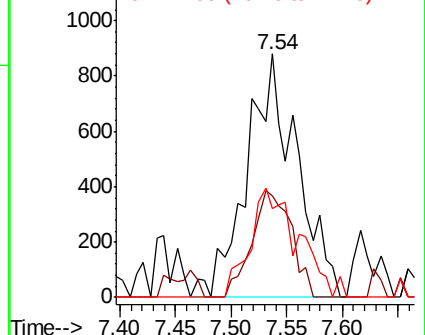
42 100

72 34.4 32.2 48.2

71 43.0 31.0 46.6



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: 1.201 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW008749.D

Acq: 19 Feb 2019 17:26

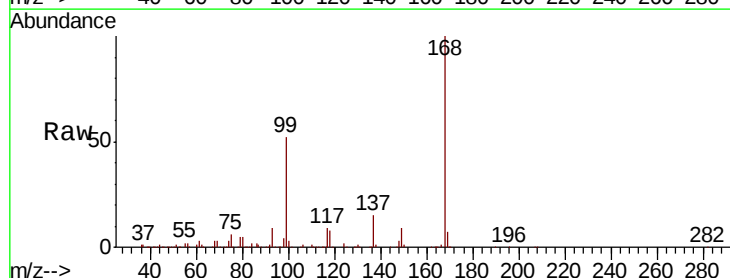
Tgt Ion: 56 Resp: 8401

Ion Ratio Lower Upper

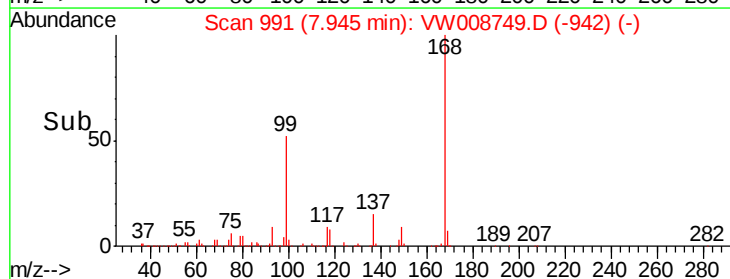
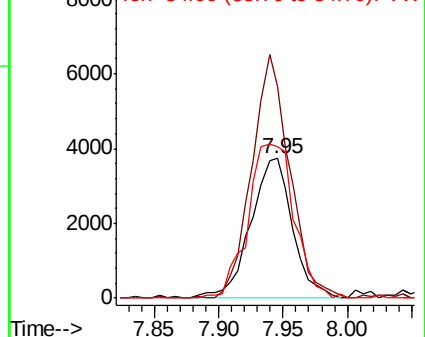
56 100

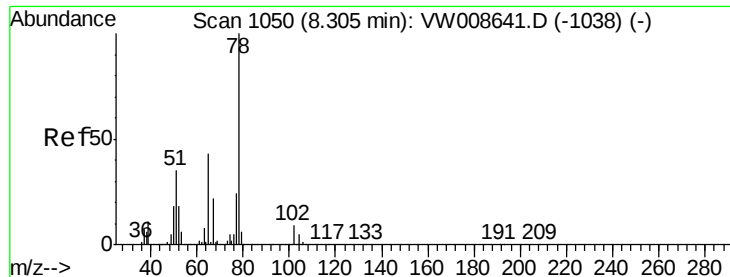
69 151.7 26.4 39.6#

84 108.2 67.4 101.2#



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

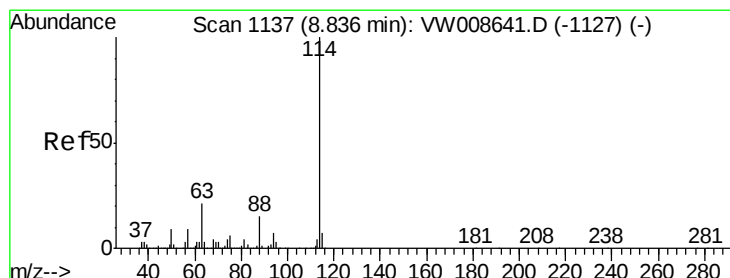
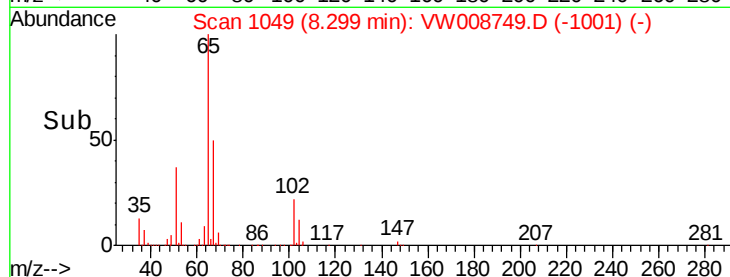
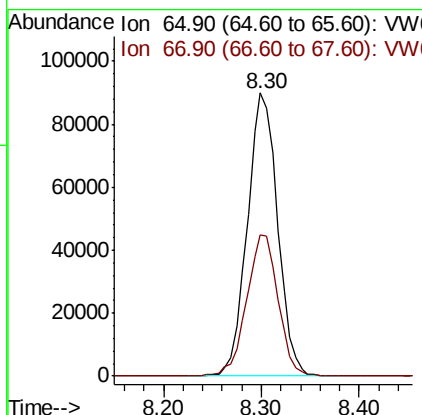
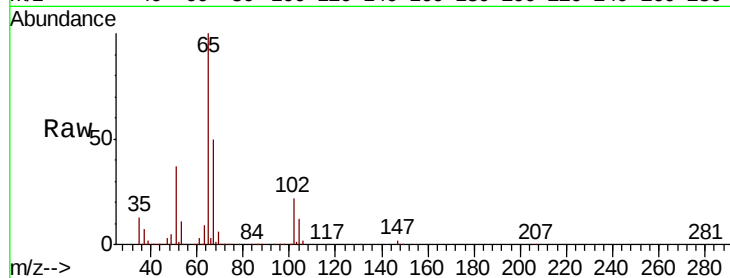




#33
 1,2-Dichloroethane-d4
 Concen: 50.496 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW008749.D
 Acq: 19 Feb 2019 17:26

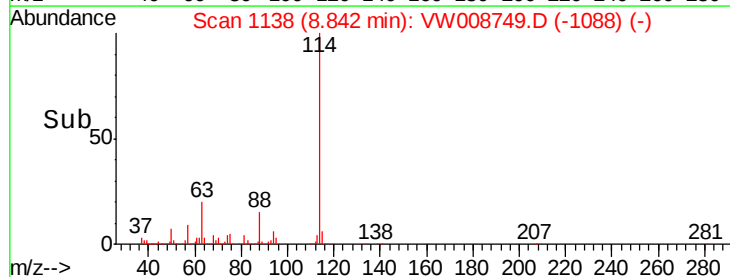
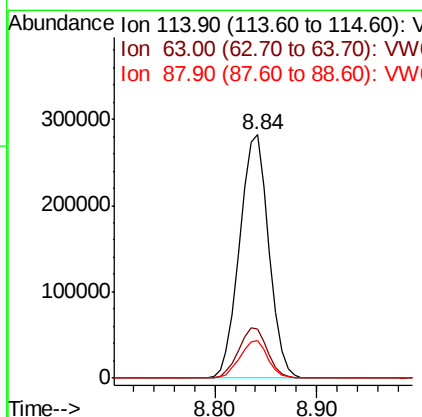
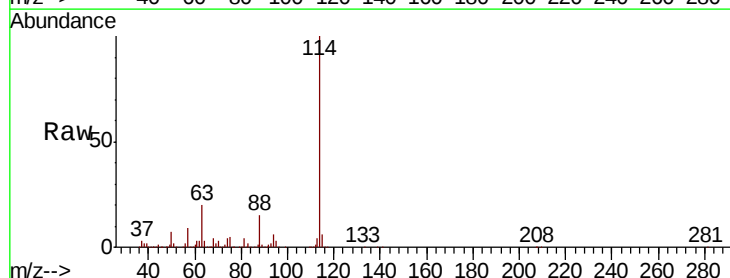
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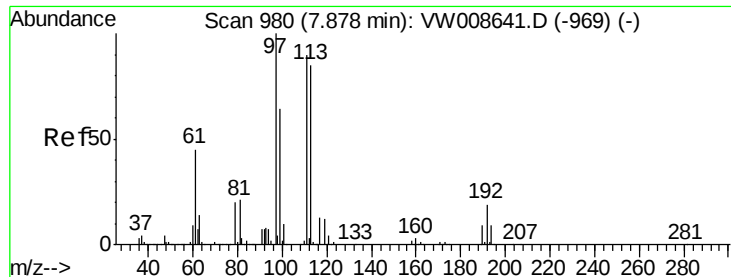
Tgt Ion: 65 Resp: 193153
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 102.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.01 min
 Lab File: VW008749.D
 Acq: 19 Feb 2019 17:26

Tgt Ion: 114 Resp: 559284
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 41.2
 88 15.4 0.0 29.6

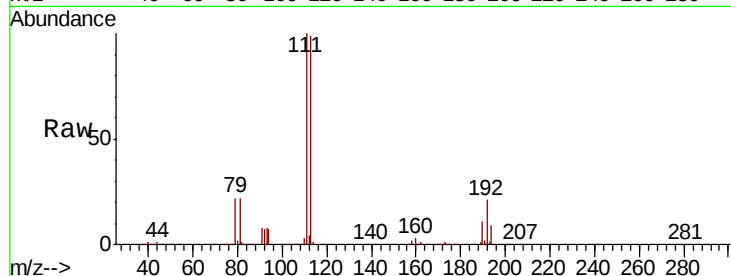




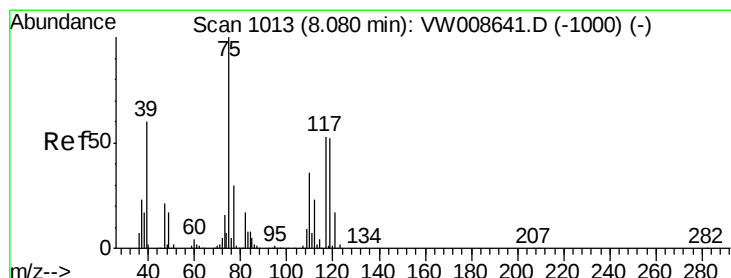
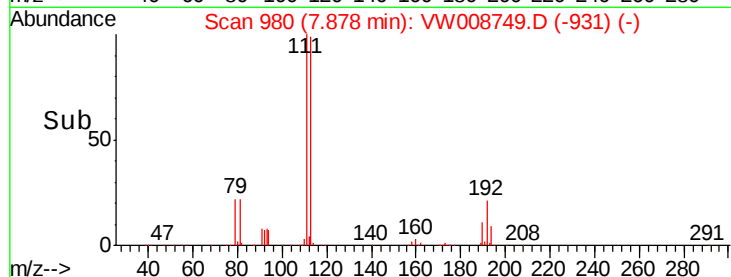
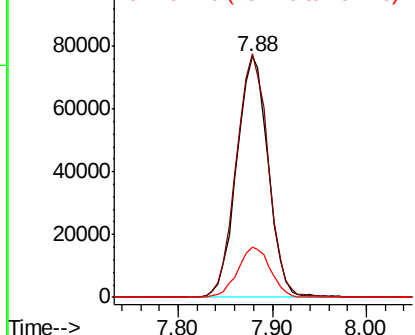
#35
 Dibromofluoromethane
 Concen: 51.642 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.00 min
 Lab File: VW008749.D
 Acq: 19 Feb 2019 17:26

Instrument :
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Tgt Ion: 113 Resp: 179341
 Ion Ratio Lower Upper
 113 100
 111 102.8 84.0 126.0
 192 21.7 17.4 26.2

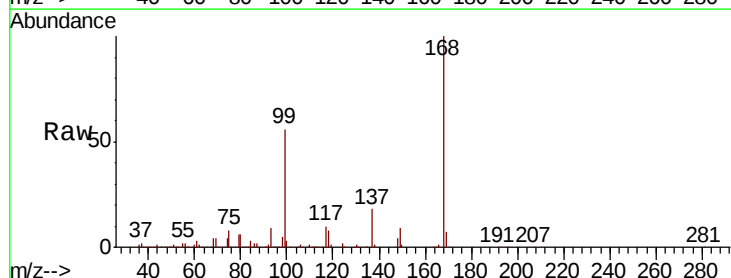


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

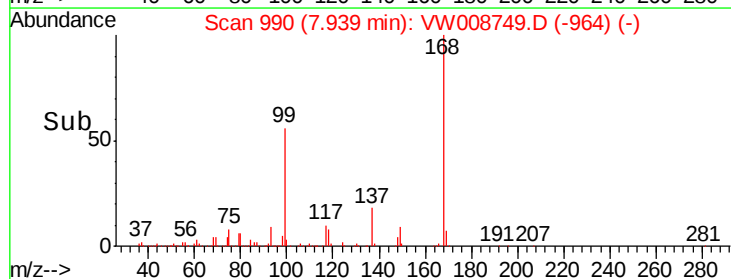
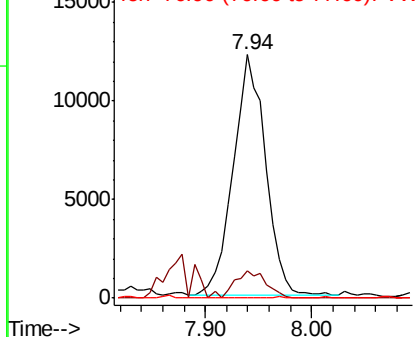


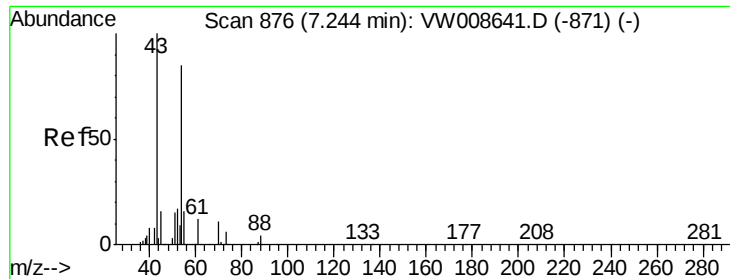
#36
 1,1-Dichloropropene
 Concen: 4.653 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW008749.D
 Acq: 19 Feb 2019 17:26

Tgt Ion: 75 Resp: 26144
 Ion Ratio Lower Upper
 75 100
 110 10.6 17.8 53.3#
 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

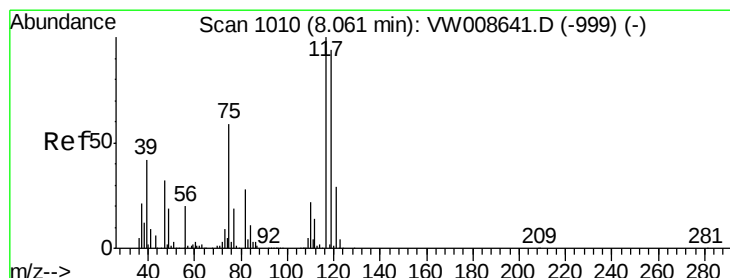
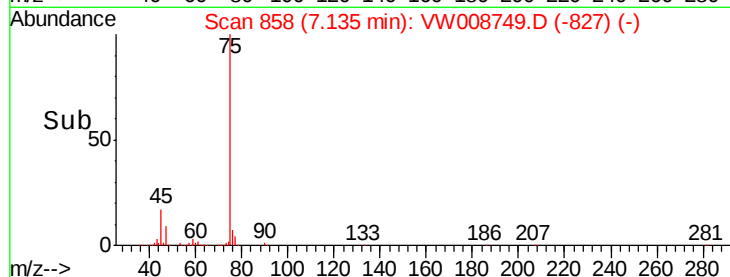
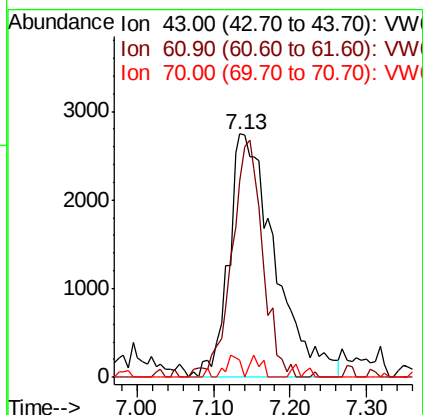
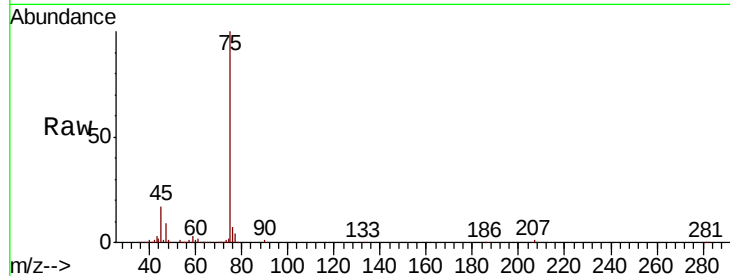




#37
Ethyl Acetate
Concen: 4.236 ug/l
RT: 7.13 min Scan# 858
Delta R.T. -0.11 min
Lab File: VW008749.D
Acq: 19 Feb 2019 17:26

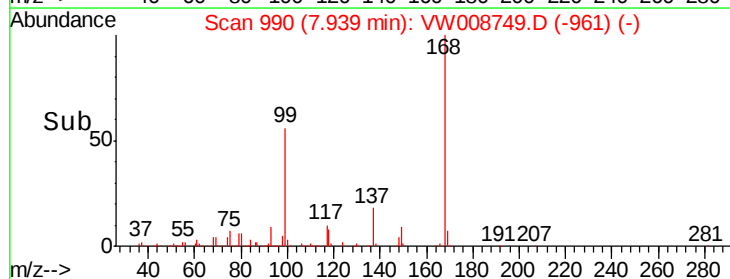
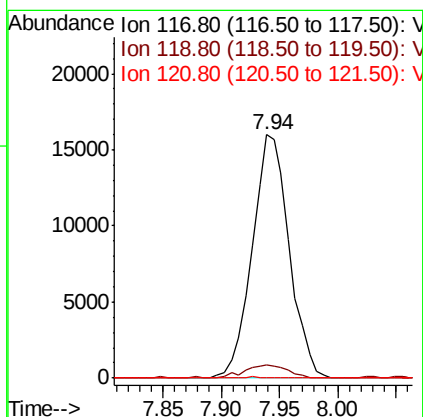
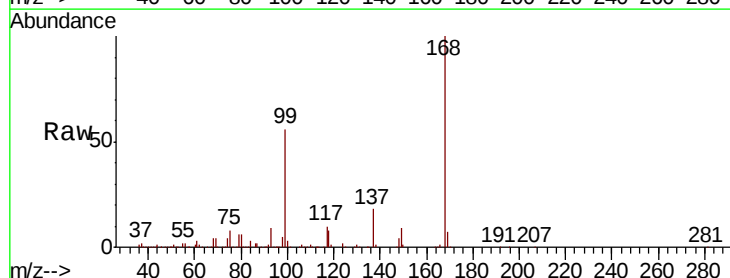
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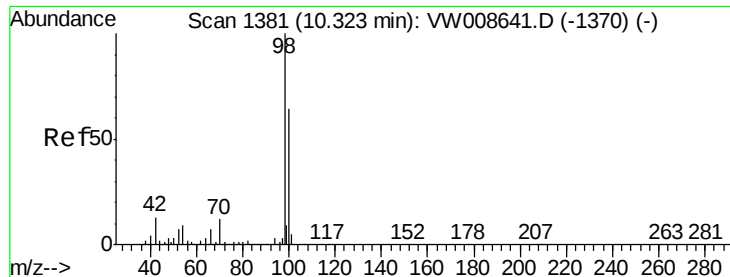
Tgt Ion: 43 Resp: 11483
Ion Ratio Lower Upper
43 100
61 64.9 10.5 15.7#
70 2.2 8.1 12.1#



#38
Carbon Tetrachloride
Concen: 6.312 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.12 min
Lab File: VW008749.D
Acq: 19 Feb 2019 17:26

Tgt Ion: 117 Resp: 35266
Ion Ratio Lower Upper
117 100
119 5.3 75.1 112.7#
121 0.0 23.5 35.3#





#50

Toluene-d8

Concen: 49.034 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW008749.D

Acq: 19 Feb 2019 17:26

Instrument :

MSVOA_W

ClientSampleId :

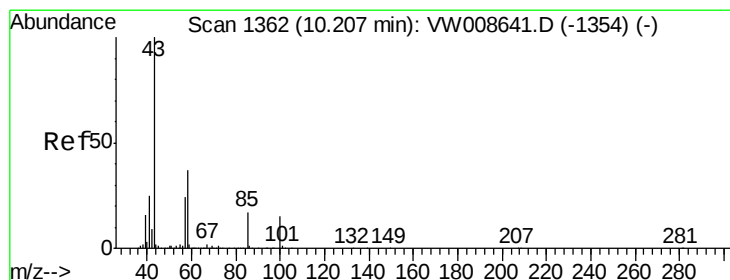
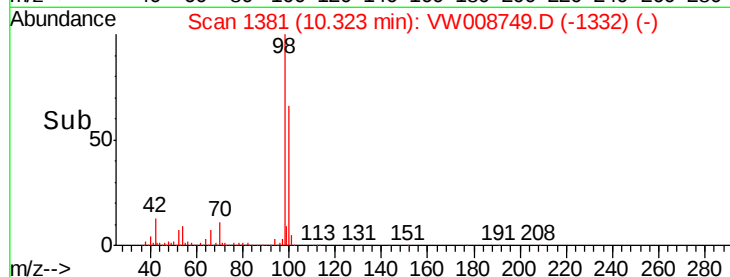
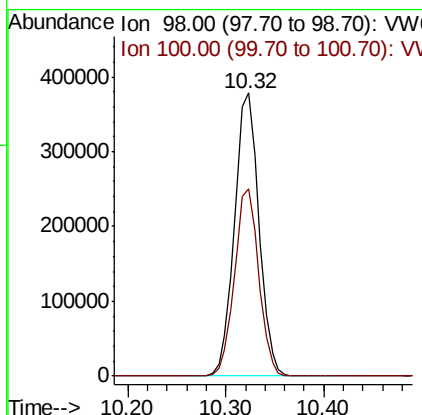
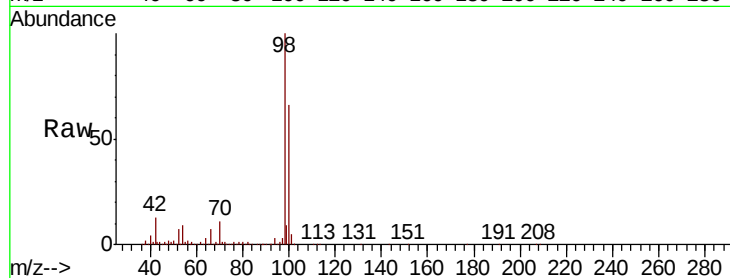
OR-02-021919-A

Tgt Ion: 98 Resp: 656430

Ion Ratio Lower Upper

98 100

100 65.8 52.2 78.4



#51

4-Methyl-2-Pentanone

Concen: 1.150 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW008749.D

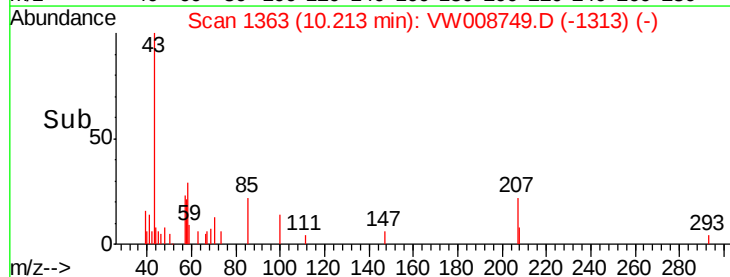
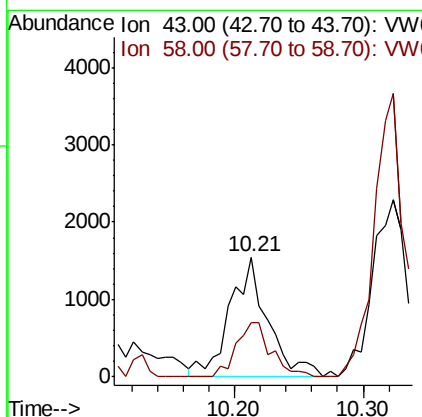
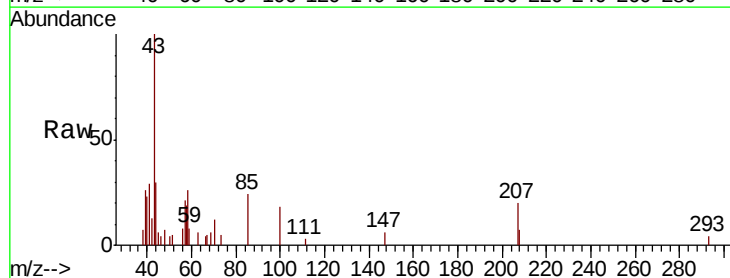
Acq: 19 Feb 2019 17:26

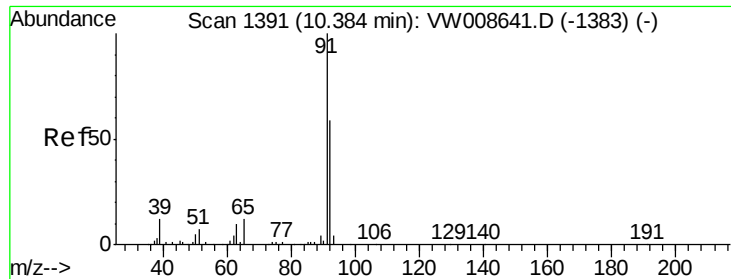
Tgt Ion: 43 Resp: 3192

Ion Ratio Lower Upper

43 100

58 41.2 29.0 43.6





#52

Toluene

Concen: 13.014 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW008749.D

Acq: 19 Feb 2019 17:26

Instrument :

MSVOA_W

ClientSampleId :

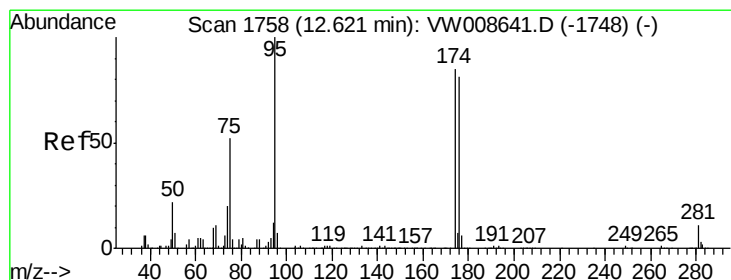
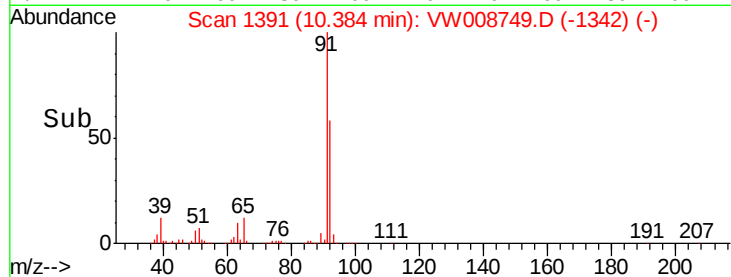
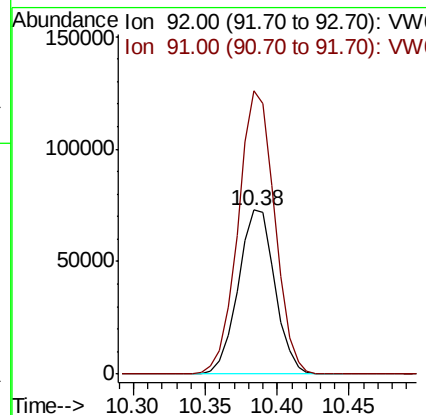
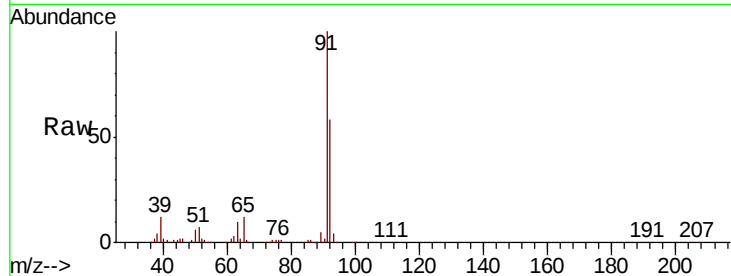
OR-02-021919-A

Tgt Ion: 92 Resp: 128843

Ion Ratio Lower Upper

92 100

91 172.3 135.8 203.6



#62

4-Bromofluorobenzene

Concen: 41.418 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.01 min

Lab File: VW008749.D

Acq: 19 Feb 2019 17:26

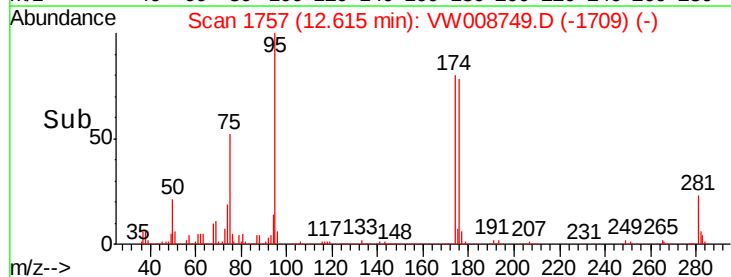
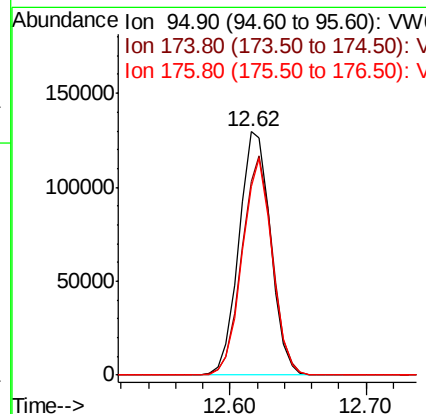
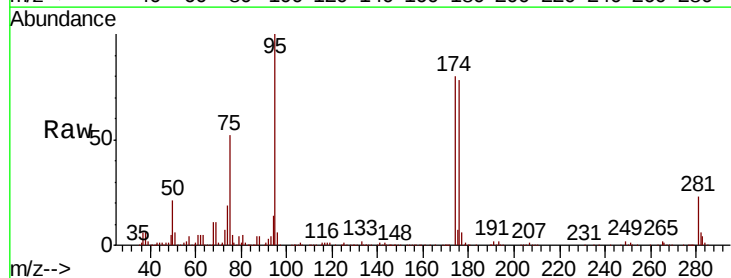
Tgt Ion: 95 Resp: 208852

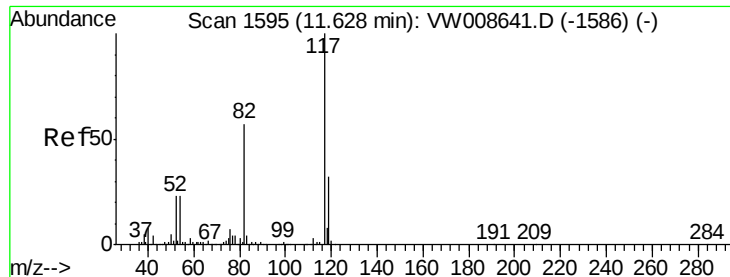
Ion Ratio Lower Upper

95 100

174 87.7 0.0 163.2

176 85.1 0.0 158.0

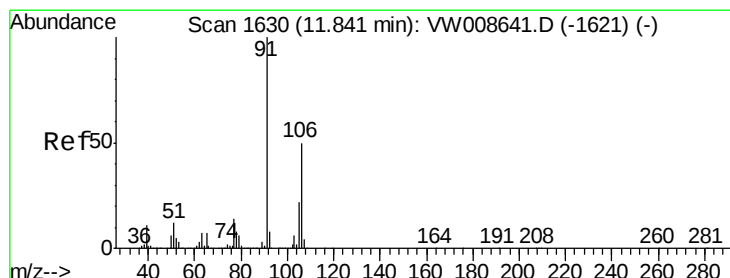
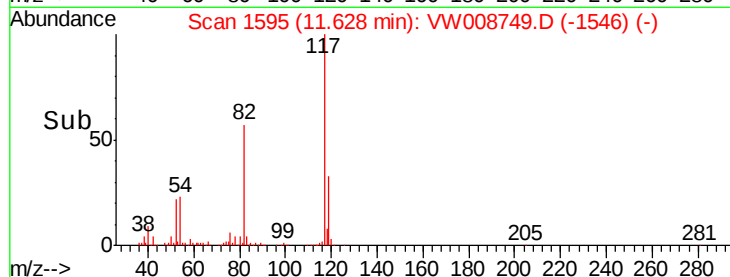
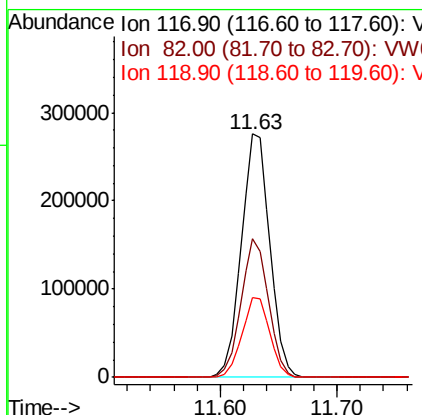
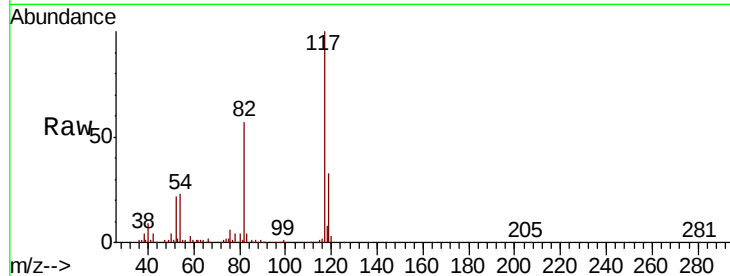




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW008749.D
Acq: 19 Feb 2019 17:26

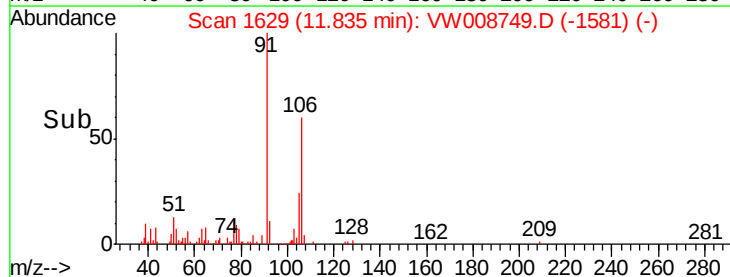
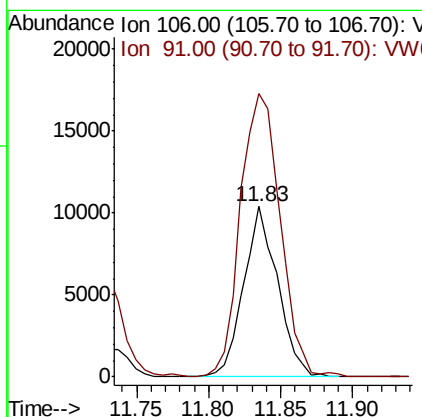
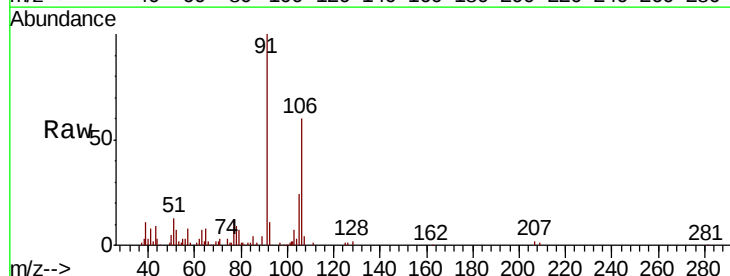
Instrument :
MSVOA_W
ClientSampleId :
OR-02-021919-A

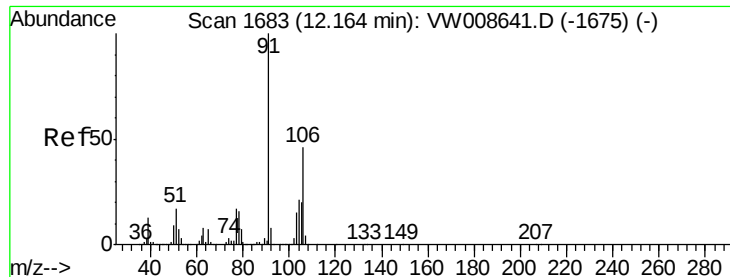
Tgt Ion:117 Resp: 470326
Ion Ratio Lower Upper
117 100
82 56.8 45.6 68.4
119 32.6 25.7 38.5



#68
m/p-Xylenes
Concen: 2.423 ug/l
RT: 11.83 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW008749.D
Acq: 19 Feb 2019 17:26

Tgt Ion:106 Resp: 17024
Ion Ratio Lower Upper
106 100
91 195.5 161.0 241.4

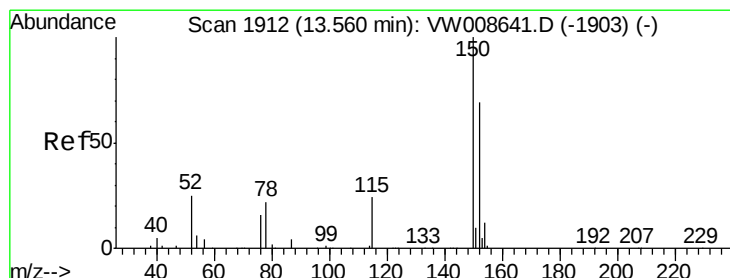
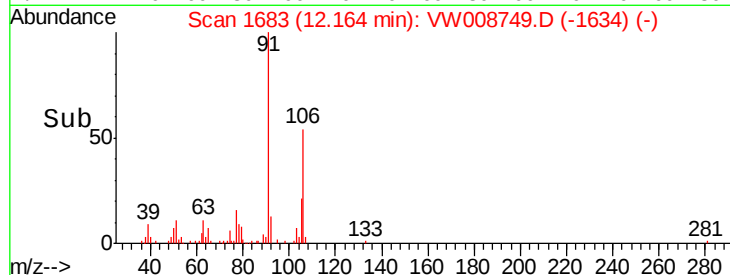
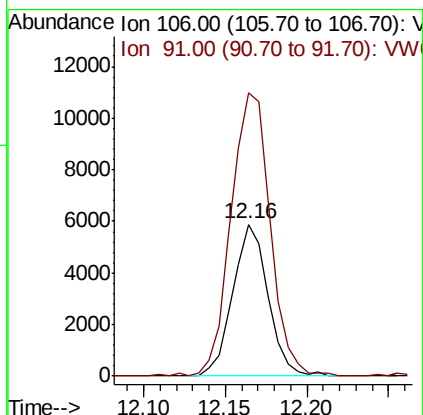
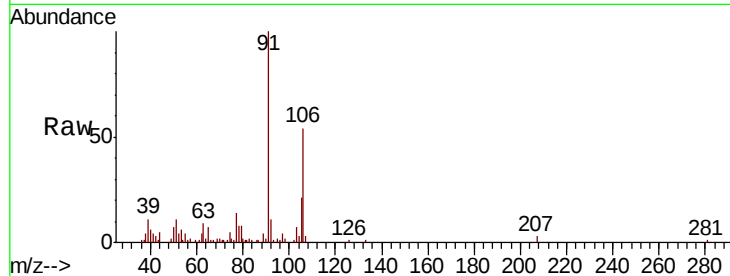




#69
o-Xylene
Concen: 1.333 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW008749.D
Acq: 19 Feb 2019 17:26

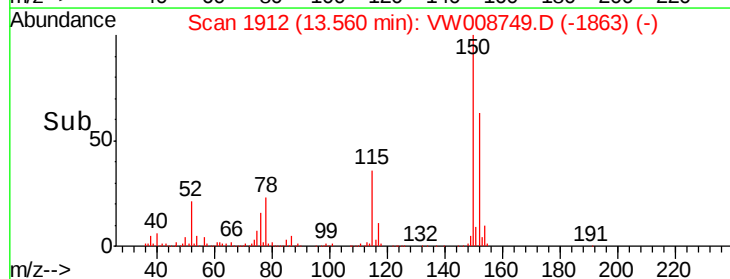
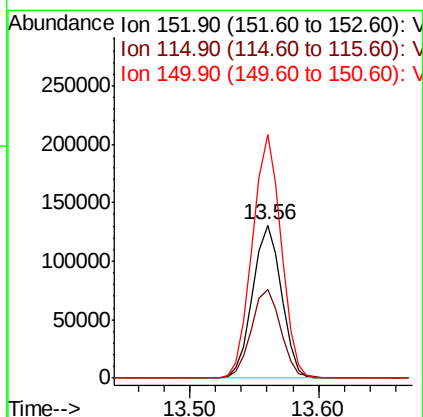
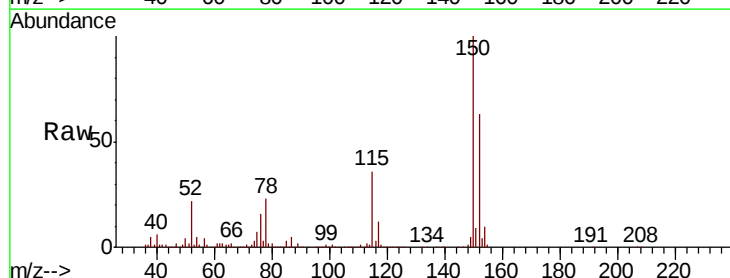
Instrument :
MSVOA_W
ClientSampleId :
OR-02-021919-A

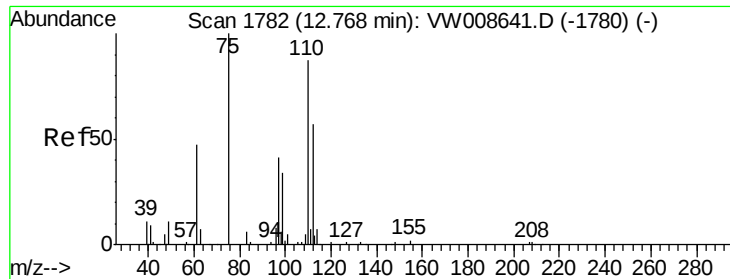
Tgt Ion:106 Resp: 8854
Ion Ratio Lower Upper
106 100
91 208.6 106.7 320.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW008749.D
Acq: 19 Feb 2019 17:26

Tgt Ion:152 Resp: 201795
Ion Ratio Lower Upper
152 100
115 58.9 29.3 87.8
150 158.4 0.0 352.8





#76

1,2,3-Trichloropropane

Concen: 56.290 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008749.D

Acq: 19 Feb 2019 17:26

Instrument :

MSVOA_W

ClientSampleId :

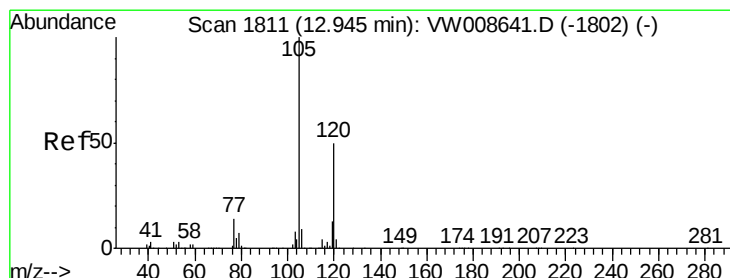
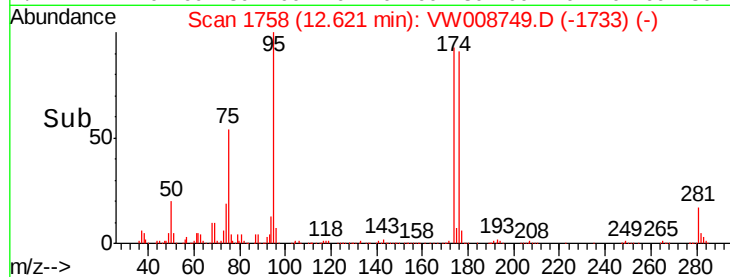
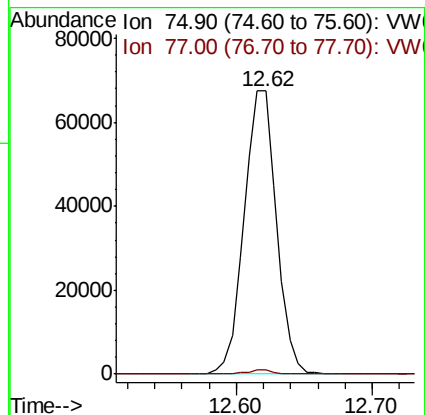
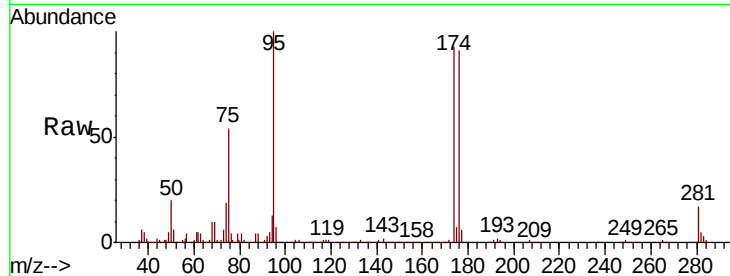
OR-02-021919-A

Tgt Ion: 75 Resp: 112164

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 1.287 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW008749.D

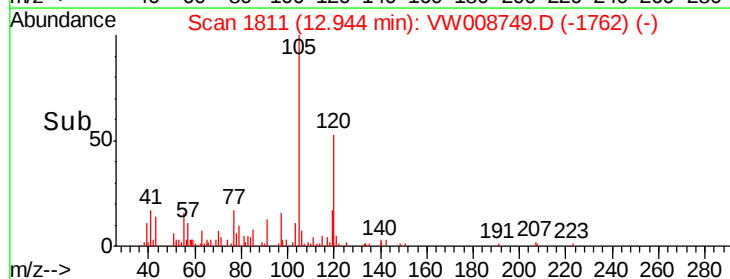
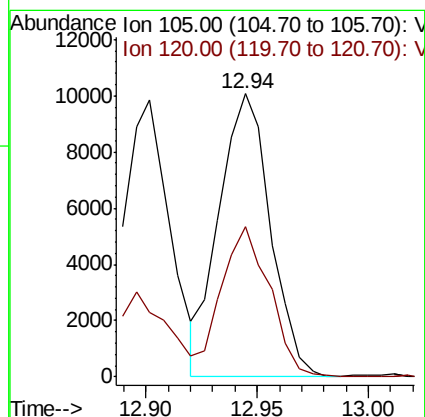
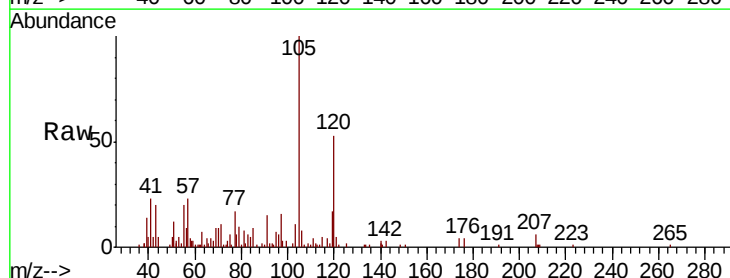
Acq: 19 Feb 2019 17:26

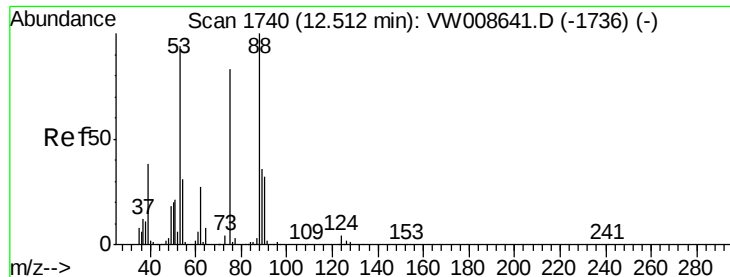
Tgt Ion: 105 Resp: 16070

Ion Ratio Lower Upper

105 100

120 50.2 24.6 73.8





#81

trans-1,4-Dichloro-2-butene

Concen: 120.373 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008749.D

Acq: 19 Feb 2019 17:26

Instrument :

MSVOA_W

ClientSampleId :

OR-02-021919-A

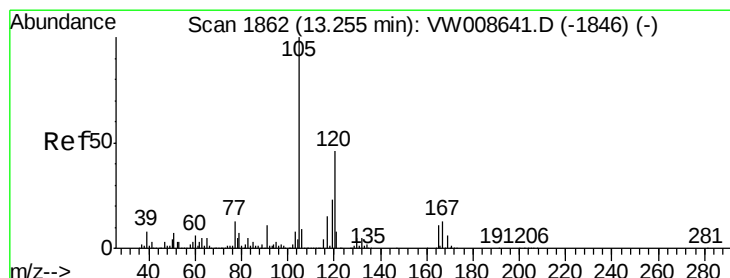
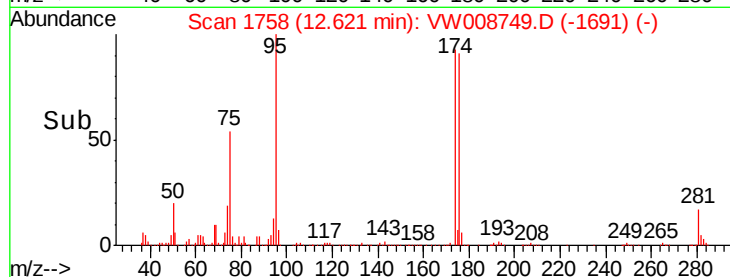
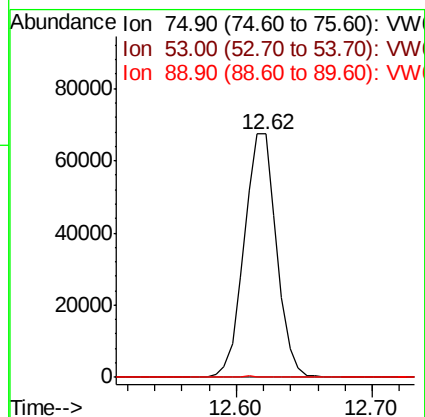
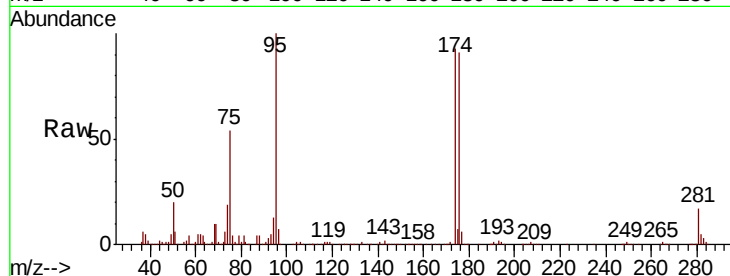
Tgt Ion: 75 Resp: 112164

Ion Ratio Lower Upper

75 100

53 0.2 87.4 131.0#

89 0.3 37.0 55.4#



#84

1,2,4-Trimethylbenzene

Concen: 3.460 ug/l

RT: 13.25 min Scan# 1861

Delta R.T. -0.01 min

Lab File: VW008749.D

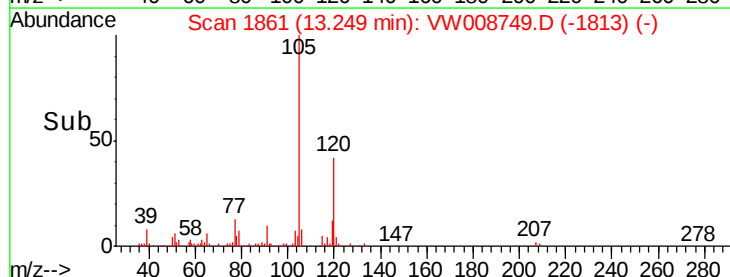
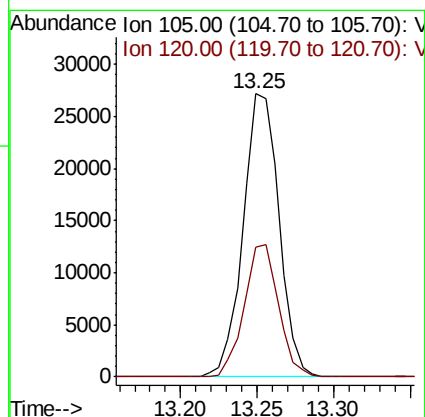
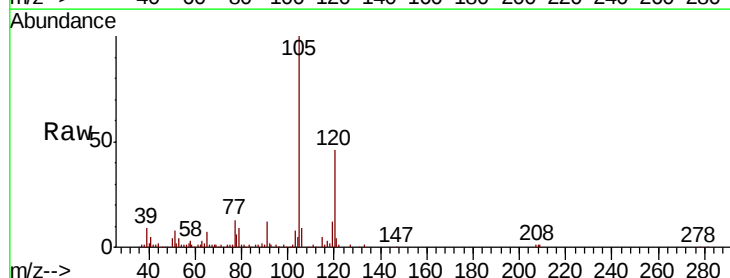
Acq: 19 Feb 2019 17:26

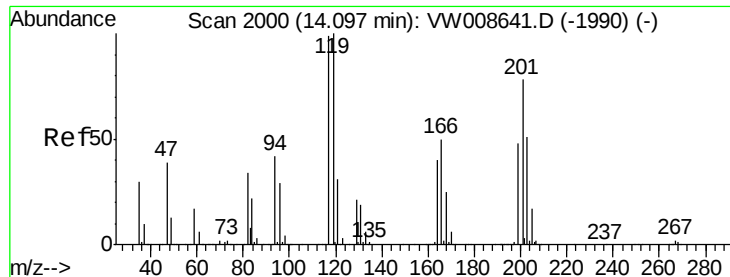
Tgt Ion: 105 Resp: 44399

Ion Ratio Lower Upper

105 100

120 44.6 22.9 68.8





#90

Hexachloroethane

Concen: 1.404 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. -0.00 min

Lab File: VW008749.D

Acq: 19 Feb 2019 17:26

Instrument :

MSVOA_W

ClientSampleId :

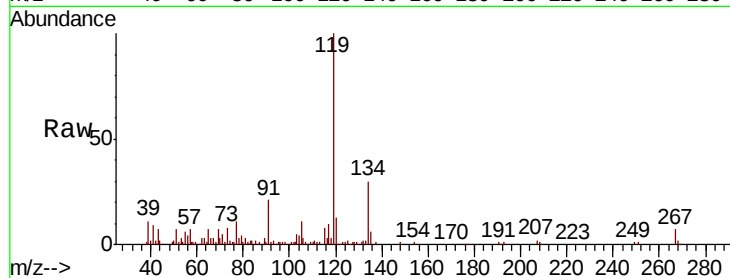
OR-02-021919-A

Tgt Ion:117 Resp: 3465

Ion Ratio Lower Upper

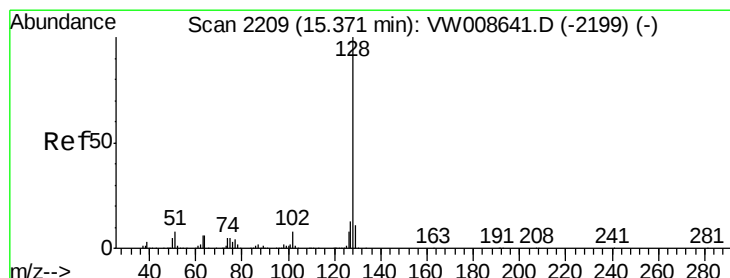
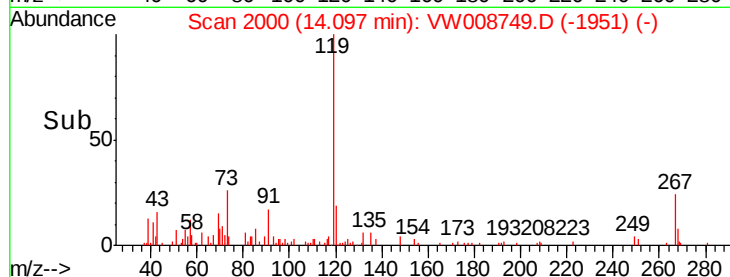
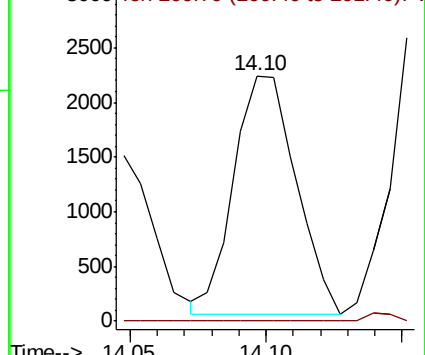
117 100

201 0.0 38.7 116.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 10.251 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. -0.00 min

Lab File: VW008749.D

Acq: 19 Feb 2019 17:26

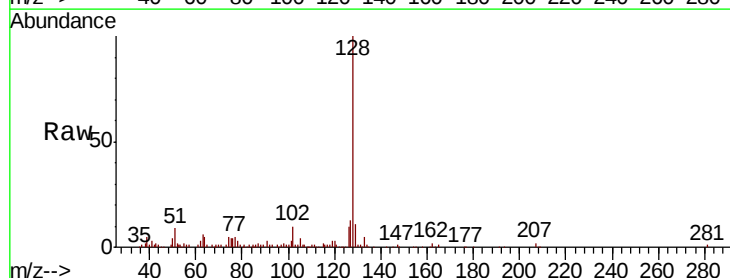
Tgt Ion:128 Resp: 81153

Ion Ratio Lower Upper

128 100

127 14.4 10.9 16.3

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

