

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW101218\
 Data File : VW006027.D
 Acq On : 11 Oct 2018 13:03
 Operator : VA/AP
 Sample : J5375-03RE
 Misc : 4.94G/5ML/MSVOA_W/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 0691-KM-PA-AMD-COMPRES

Quant Time: Oct 11 15:47:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W100818S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 09 02:14:04 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	170224	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	254449	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	207103	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	83467	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	93604	56.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.28%	
35) Dibromofluoromethane	7.88	113	23109	14.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	28.44%	
50) Toluene-d8	10.33	98	312168	49.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.88%	
62) 4-Bromofluorobenzene	12.62	95	97679	41.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.16%	

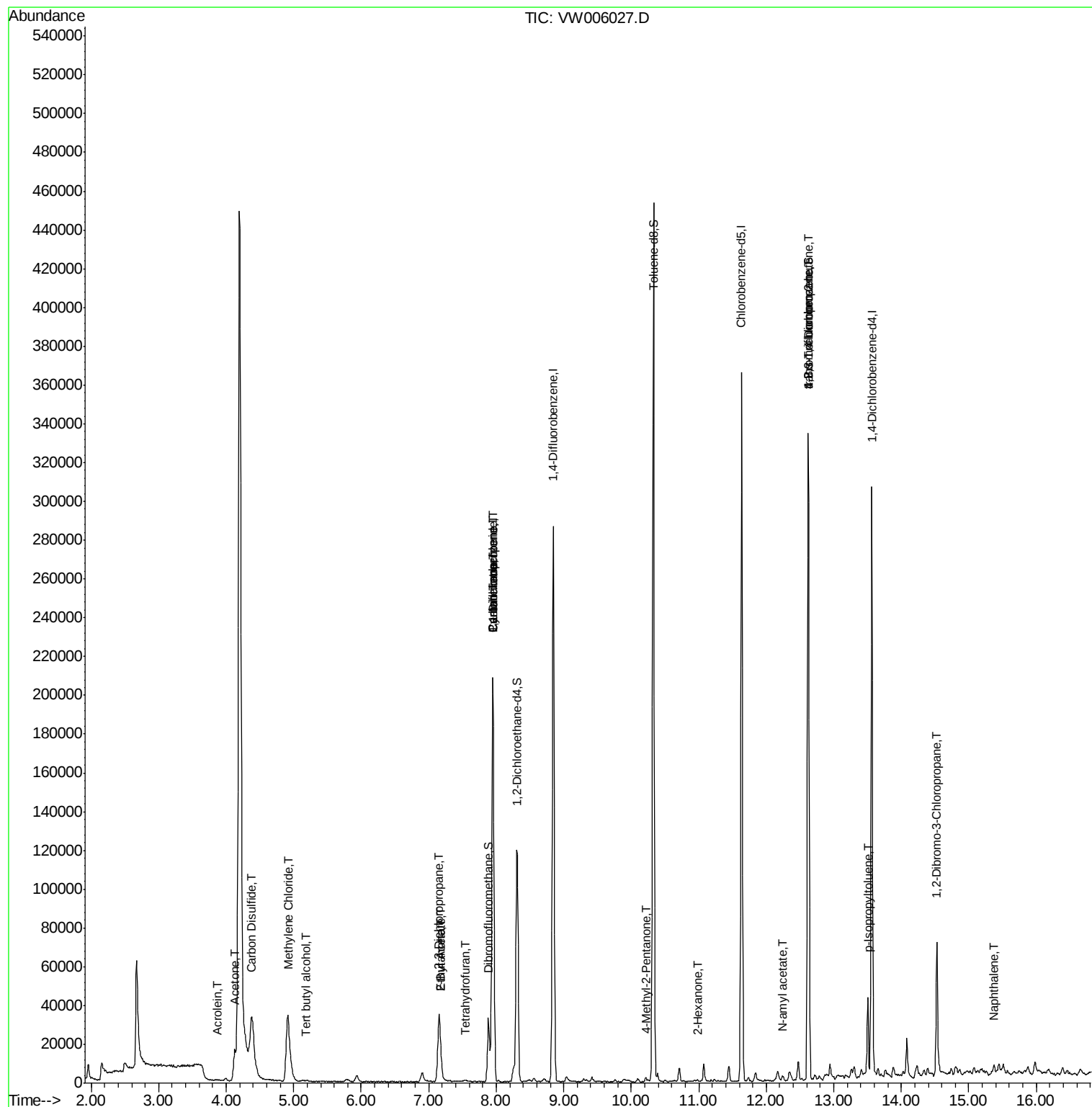
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.18	59	794	6.56	ug/l #	74
13) Acrolein	3.87	56	203	1.88	ug/l #	1
16) Acetone	4.12	43	28274	85.66	ug/l	97
17) Carbon Disulfide	4.38	76	54901	12.12	ug/l	97
20) Methylene Chloride	4.92	84	34198	20.68	ug/l	92
25) 2-Butanone	7.18	43	9312	19.84	ug/l	100
26) 2,2-Dichloropropane	7.15	77	2544	1.24	ug/l #	52
29) Tetrahydrofuran	7.56	42	625	2.11	ug/l #	64
31) Cyclohexane	7.95	56	3655	1.26	ug/l #	31
36) 1,1-Dichloropropene	7.95	75	11315	4.64	ug/l #	50
37) Ethyl Acetate	7.18	43	9312	9.02	ug/l #	69
38) Carbon Tetrachloride	7.95	117	15140	5.78	ug/l #	15
51) 4-Methyl-2-Pentanone	10.21	43	1784	1.70	ug/l	89
59) 2-Hexanone	10.98	43	806	1.07	ug/l	86
74) N-amyl acetate	12.24	43	1475	1.02	ug/l #	60
76) 1,2,3-Trichloropropane	12.62	75	49764	66.74	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	49764	140.90	ug/l #	11
86) p-Isopropyltoluene	13.51	119	22935	3.97	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.52	75	25463	136.75	ug/l #	1
95) Naphthalene	15.38	128	4331	1.27	ug/l	97

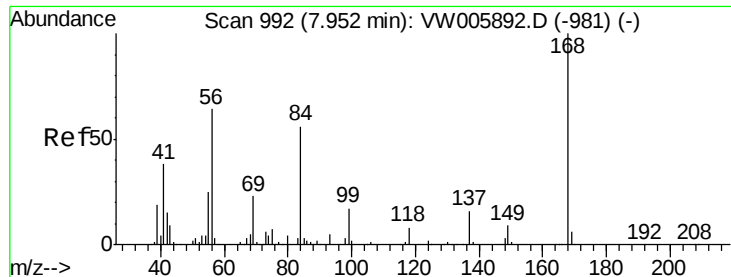
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW006027.D

Acq: 11 Oct 2018 13:03

Instrument :

MSVOA_W

ClientSampleId :

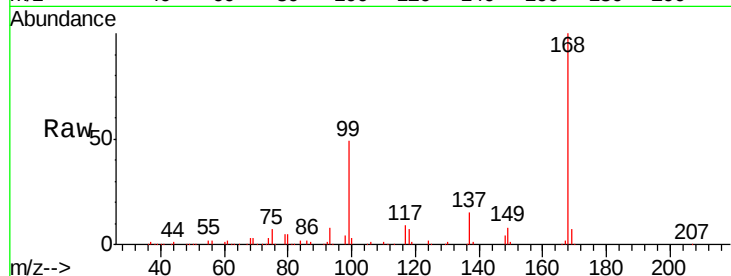
0691-KM-PA-AMD-COMP

Tgt Ion: 168 Resp: 170224

Ion Ratio Lower Upper

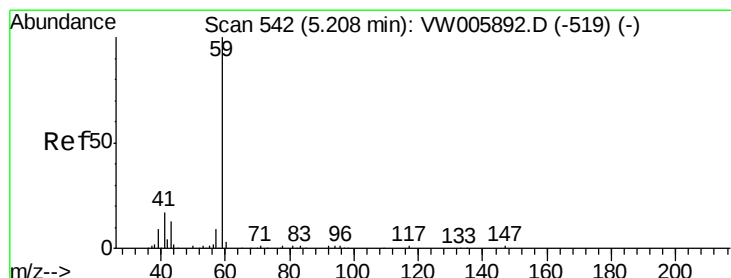
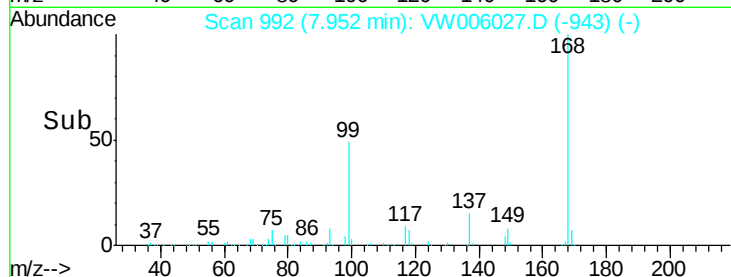
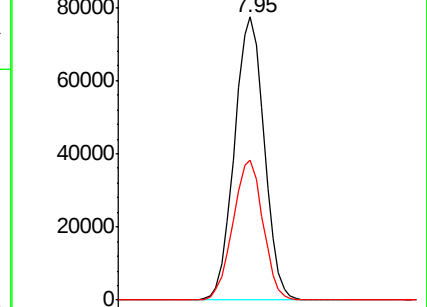
168 100

99 49.3 40.9 61.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 6.56 ug/l

RT: 5.18 min Scan# 538

Delta R.T. -0.02 min

Lab File: VW006027.D

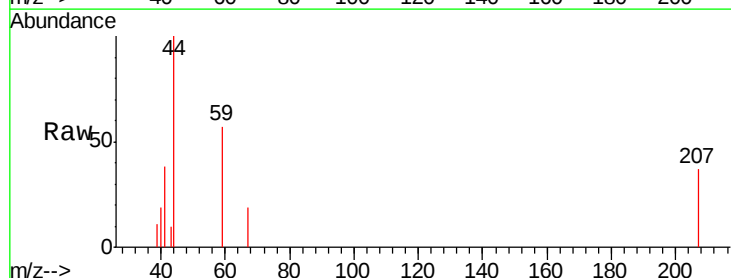
Acq: 11 Oct 2018 13:03

Tgt Ion: 59 Resp: 794

Ion Ratio Lower Upper

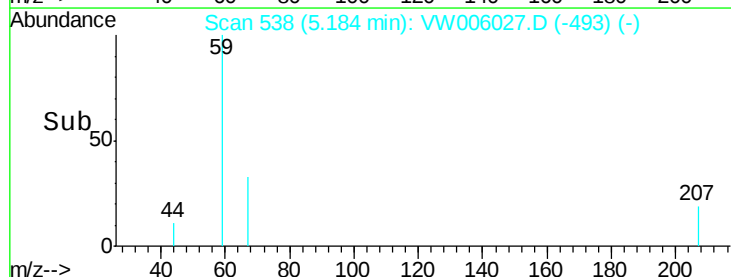
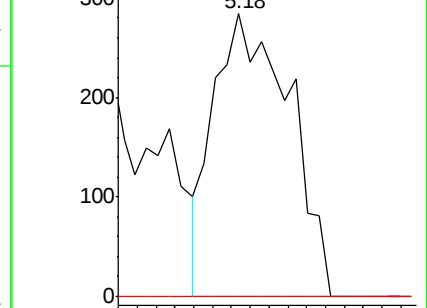
59 100

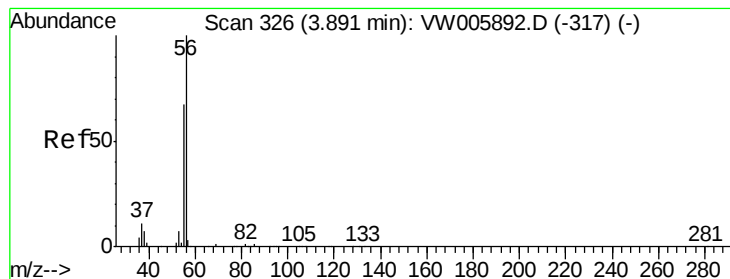
57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 1.88 ug/l

RT: 3.87 min Scan# 323

Delta R.T. -0.02 min

Lab File: VW006027.D

Acq: 11 Oct 2018 13:03

Instrument :

MSVOA_W

ClientSampleId :

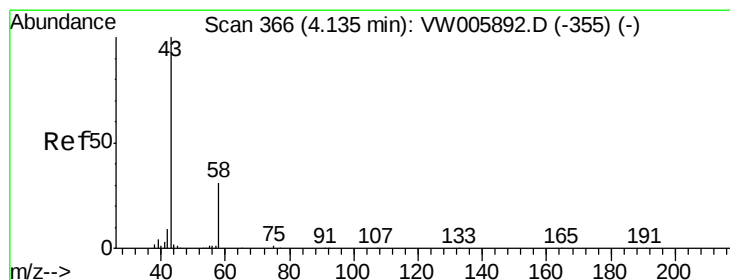
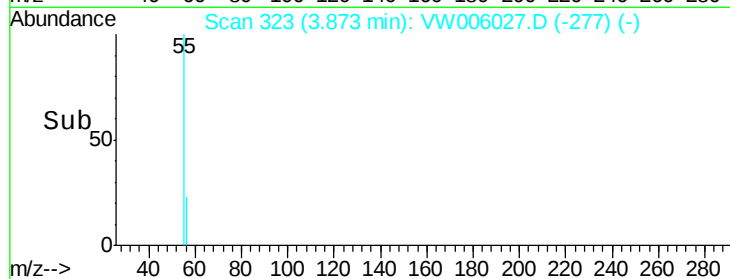
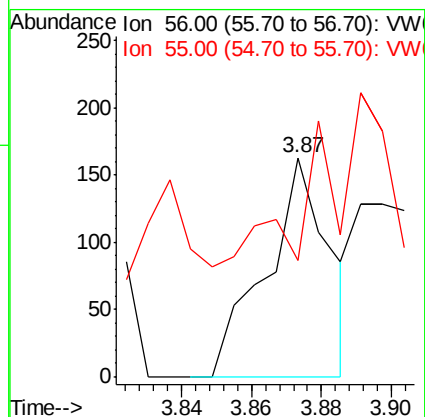
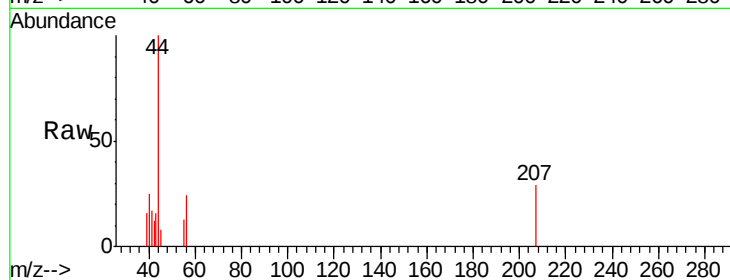
0691-KM-PA-AMD-COMP

Tgt Ion: 56 Resp: 203

Ion Ratio Lower Upper

56 100

55 243.8 54.6 82.0#



#16

Acetone

Concen: 85.66 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.01 min

Lab File: VW006027.D

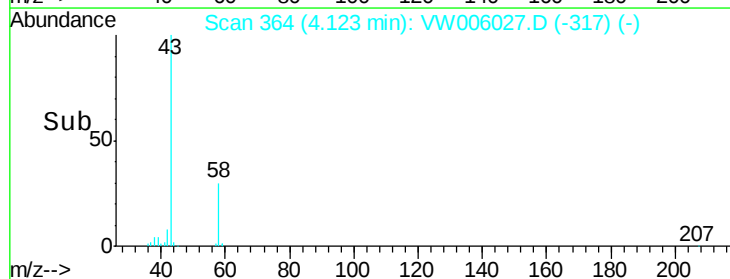
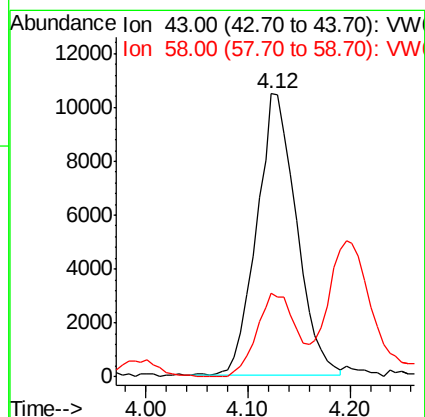
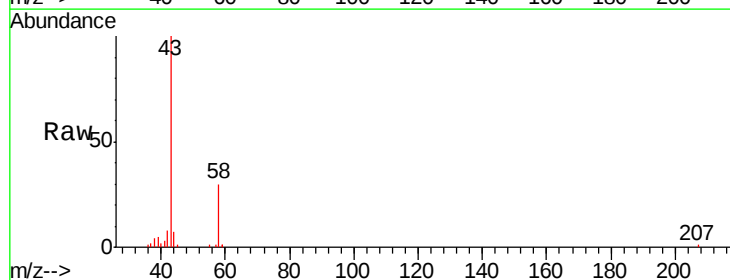
Acq: 11 Oct 2018 13:03

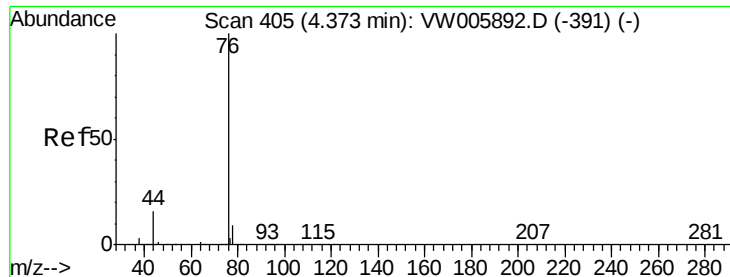
Tgt Ion: 43 Resp: 28274

Ion Ratio Lower Upper

43 100

58 29.2 24.7 37.1





#17

Carbon Disulfide

Concen: 12.12 ug/l

RT: 4.38 min Scan# 406

Delta R.T. 0.01 min

Lab File: VW006027.D

Acq: 11 Oct 2018 13:03

Instrument :

MSVOA_W

ClientSampleId :

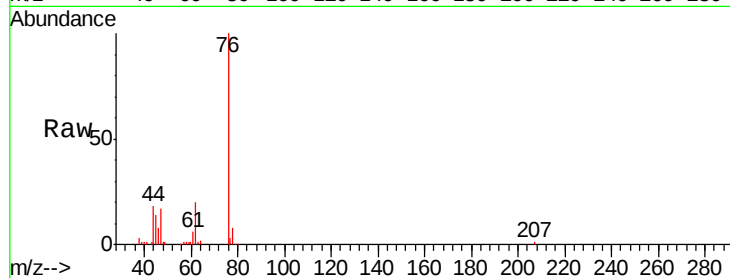
0691-KM-PA-AMD-COMP

Tgt Ion: 76 Resp: 54901

Ion Ratio Lower Upper

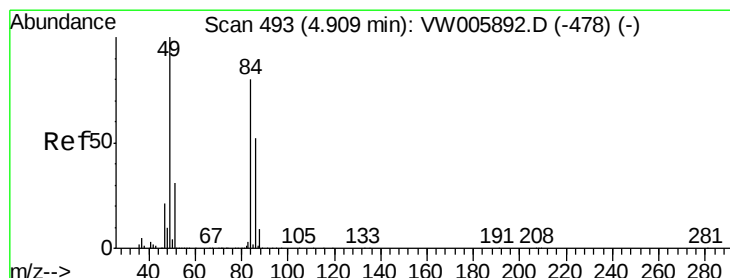
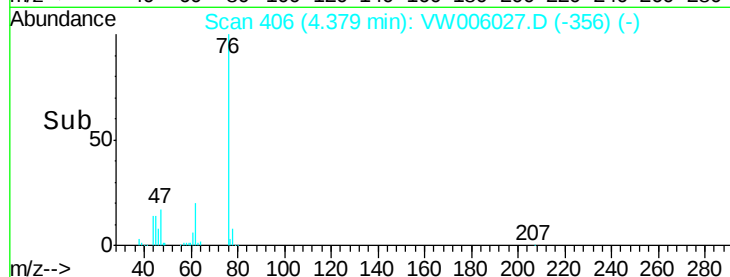
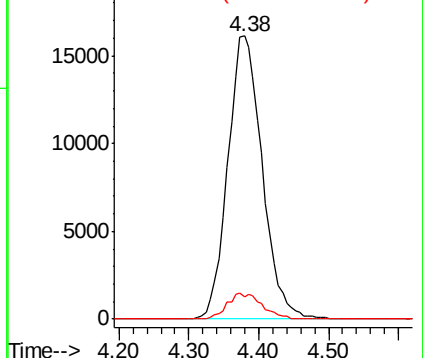
76 100

78 7.9 7.4 11.0



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#20

Methylene Chloride

Concen: 20.68 ug/l

RT: 4.92 min Scan# 494

Delta R.T. 0.01 min

Lab File: VW006027.D

Acq: 11 Oct 2018 13:03

Tgt Ion: 84 Resp: 34198

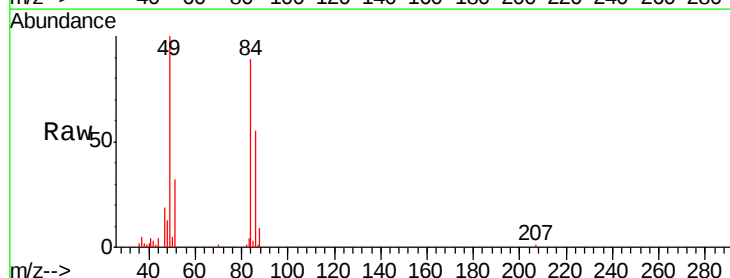
Ion Ratio Lower Upper

84 100

49 111.9 99.9 149.9

51 35.9 31.1 46.7

86 61.3 51.8 77.6

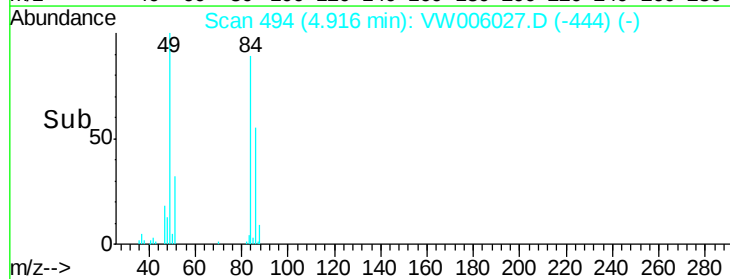
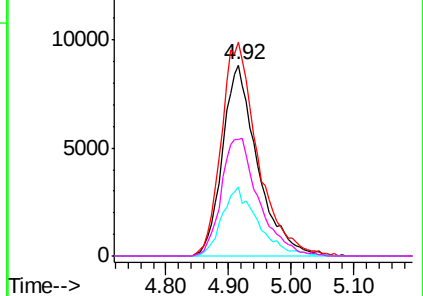


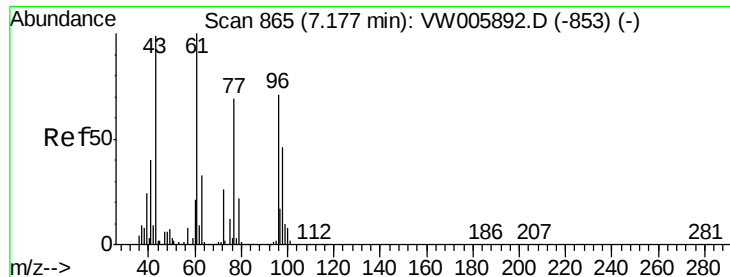
Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW





#25

2-Butanone

Concen: 19.84 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.00 min

Lab File: VW006027.D

Acq: 11 Oct 2018 13:03

Instrument :

MSVOA_W

ClientSampleId :

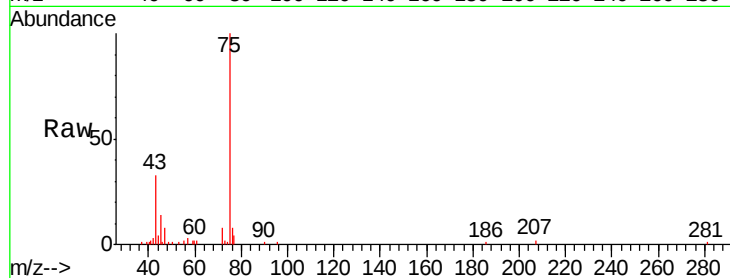
0691-KM-PA-AMD-COMP

Tgt Ion: 43 Resp: 9312

Ion Ratio Lower Upper

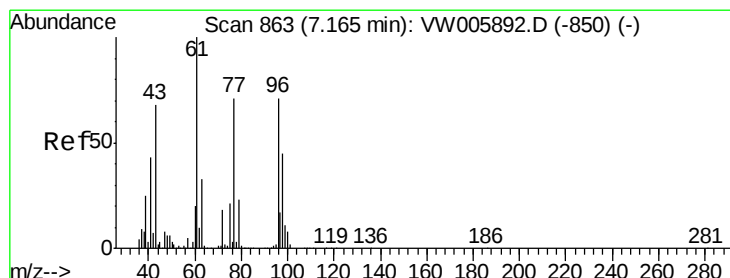
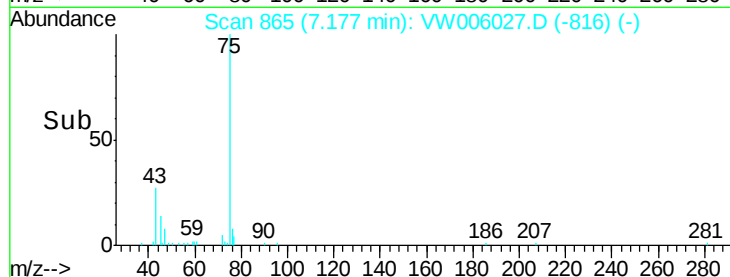
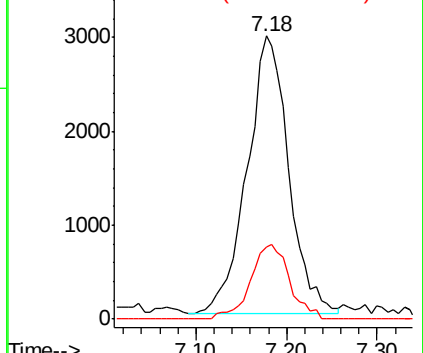
43 100

72 26.2 21.0 31.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#26

2,2-Dichloropropane

Concen: 1.24 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW006027.D

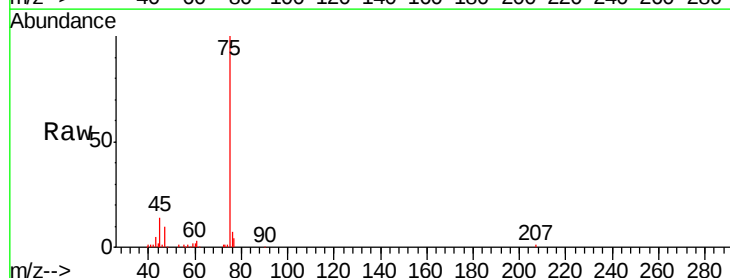
Acq: 11 Oct 2018 13:03

Tgt Ion: 77 Resp: 2544

Ion Ratio Lower Upper

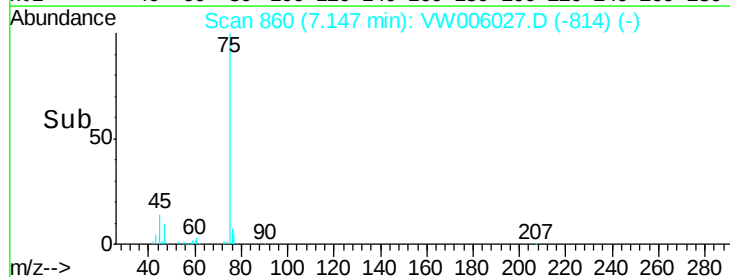
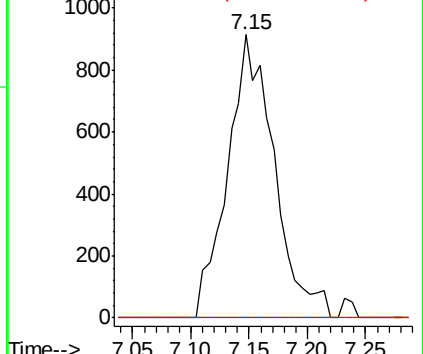
77 100

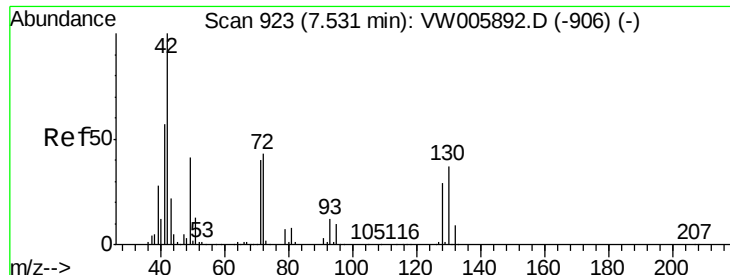
97 0.0 11.9 35.7#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW

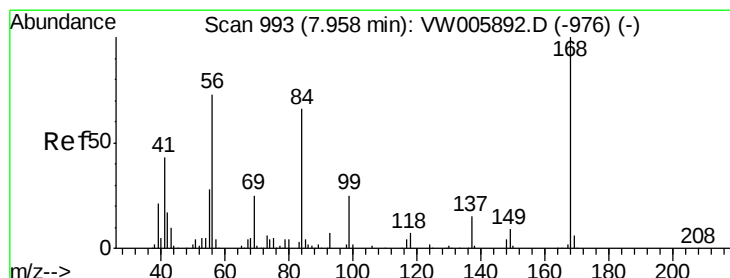
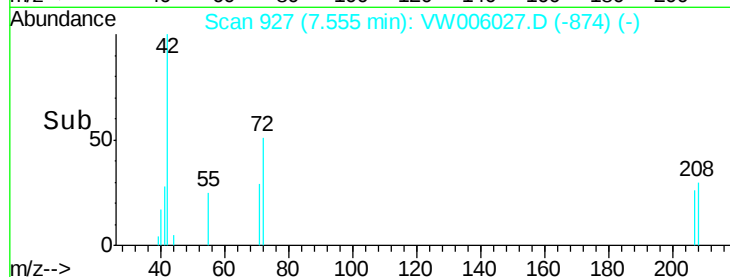
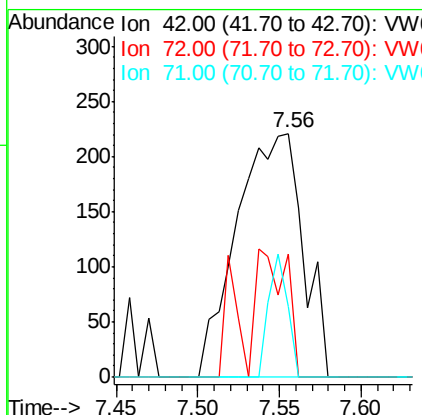
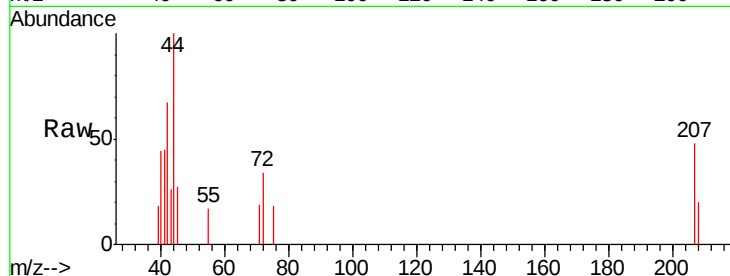




#29
Tetrahydrofuran
Concen: 2.11 ug/l
RT: 7.56 min Scan# 927
Delta R.T. 0.02 min
Lab File: VW006027.D
Acq: 11 Oct 2018 13:03

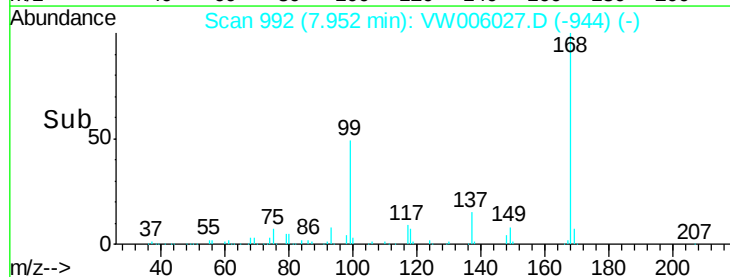
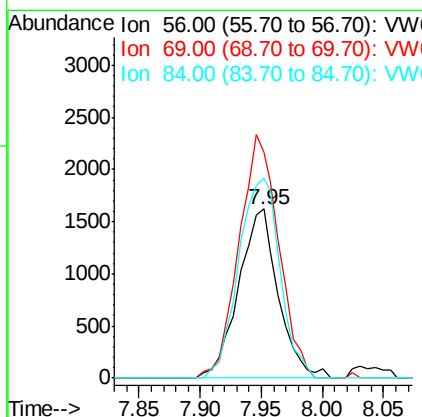
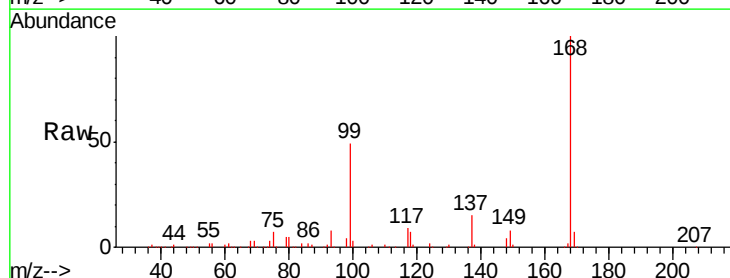
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0691-KM-PA-AMD-COMP

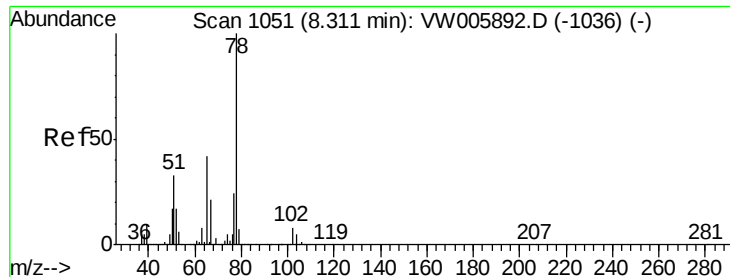
Tgt Ion: 42 Resp: 625
Ion Ratio Lower Upper
42 100
72 24.0 34.6 51.8#
71 14.2 32.6 49.0#



#31
Cyclohexane
Concen: 1.26 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW006027.D
Acq: 11 Oct 2018 13:03

Tgt Ion: 56 Resp: 3655
Ion Ratio Lower Upper
56 100
69 133.9 27.9 41.9#
84 118.3 72.3 108.5#

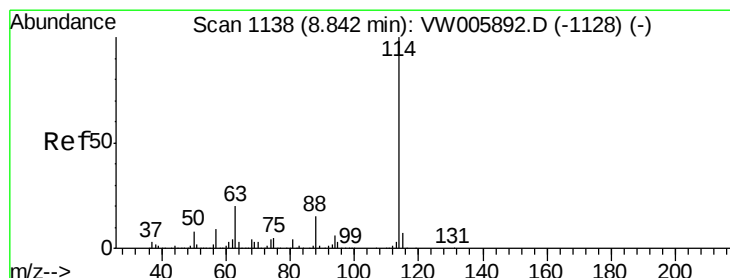
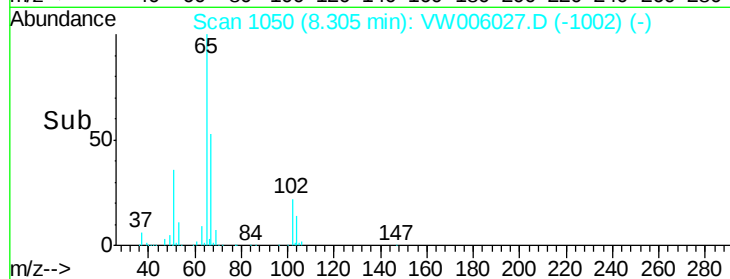
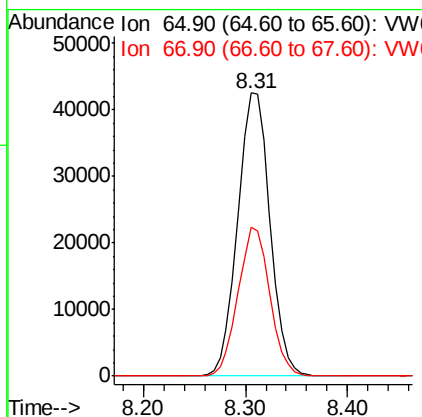
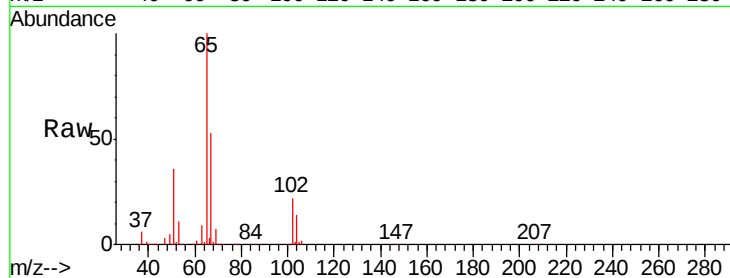




#33
 1,2-Dichloroethane-d4
 Concen: 56.64 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.01 min
 Lab File: VW006027.D
 Acq: 11 Oct 2018 13:03

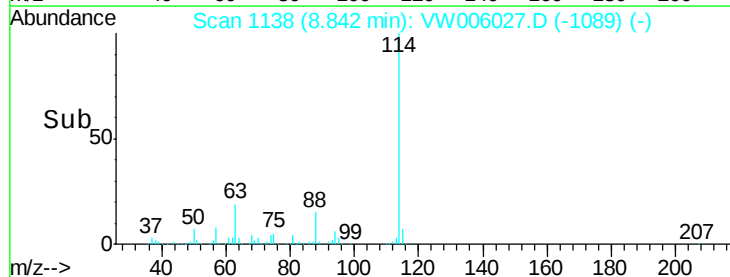
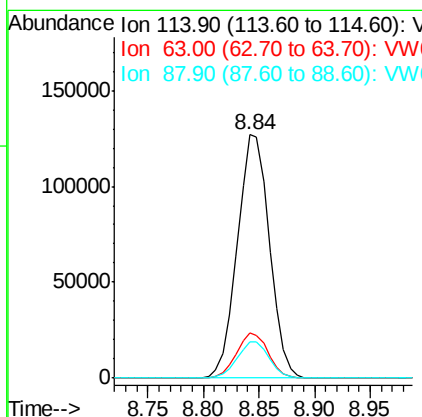
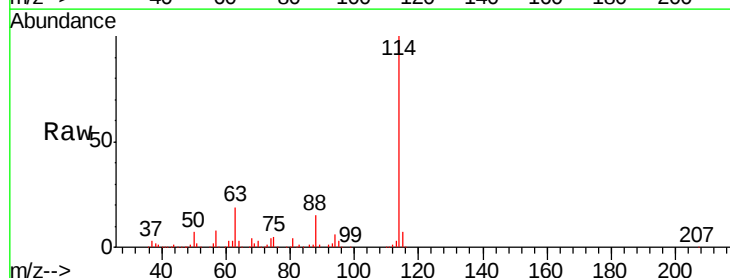
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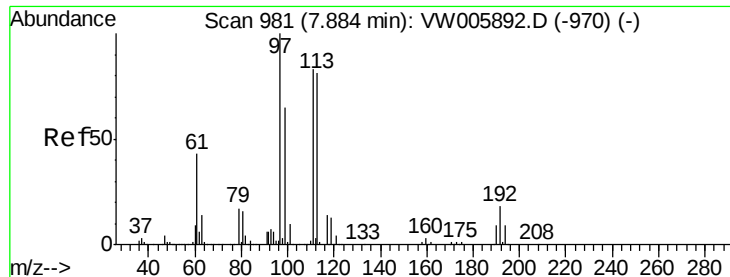
Tgt Ion: 65 Resp: 93604
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW006027.D
 Acq: 11 Oct 2018 13:03

Tgt Ion: 114 Resp: 254449
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 39.2
 88 14.9 0.0 30.8

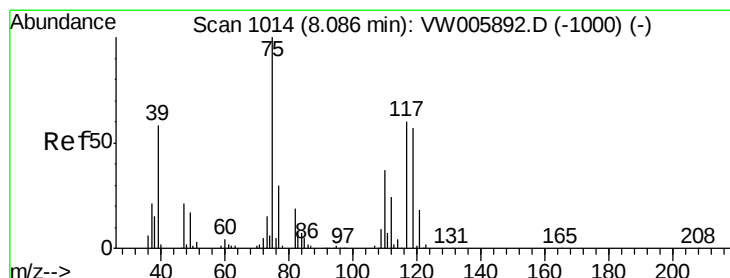
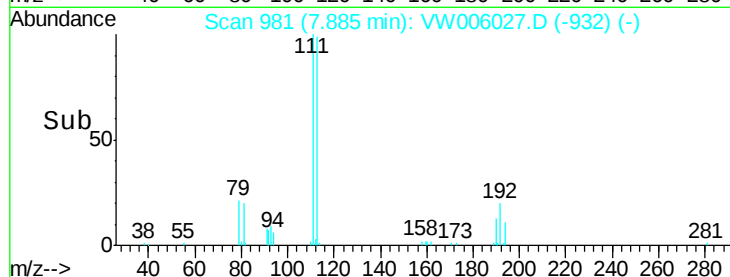
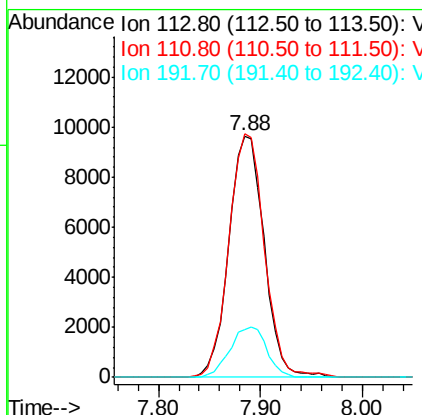
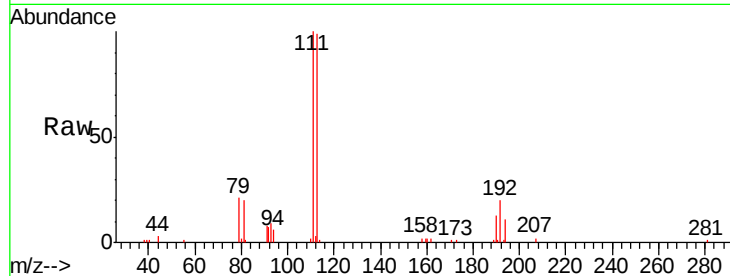




#35
 Dibromofluoromethane
 Concen: 14.22 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW006027.D
 Acq: 11 Oct 2018 13:03

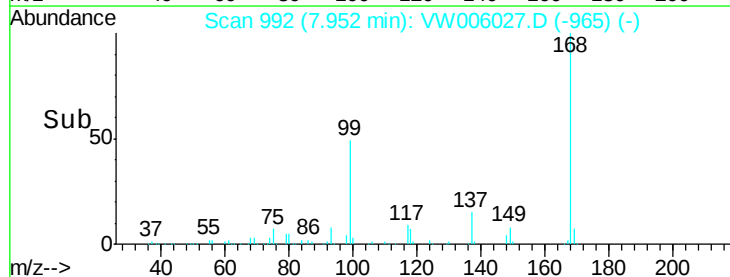
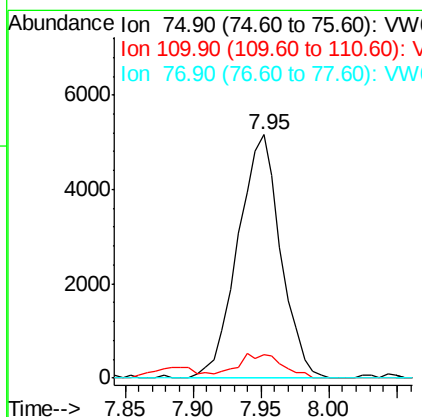
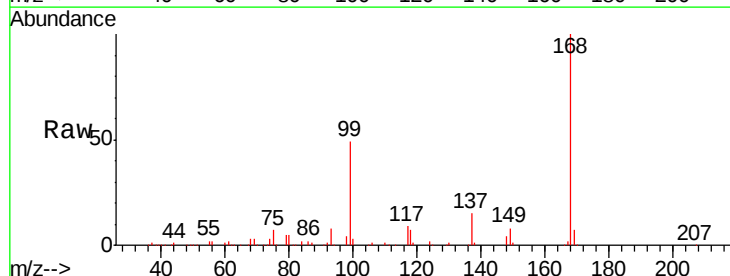
Instrument :
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 ClientSampleId :
 0691-KM-PA-AMD-COMP

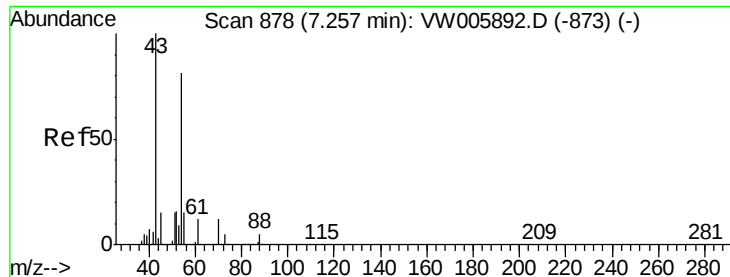
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.5	82.0	123.0
192	21.7	18.3	27.5



#36
 1,1-Dichloropropene
 Concen: 4.64 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW006027.D
 Acq: 11 Oct 2018 13:03

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.3	18.6	56.0#
77	0.0	24.7	37.1#





#37

Ethyl Acetate

Concen: 9.02 ug/l

RT: 7.18 min Scan# 865

Delta R.T. -0.08 min

Lab File: VW006027.D

Acq: 11 Oct 2018 13:03

Instrument :

MSVOA_W

ClientSampleId :

0691-KM-PA-AMD-COMP

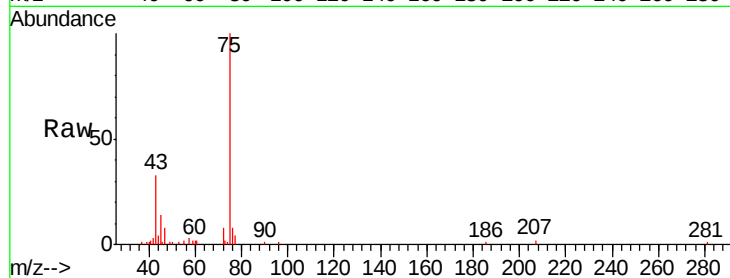
Tgt Ion: 43 Resp: 9312

Ion Ratio Lower Upper

43 100

61 0.0 10.6 16.0#

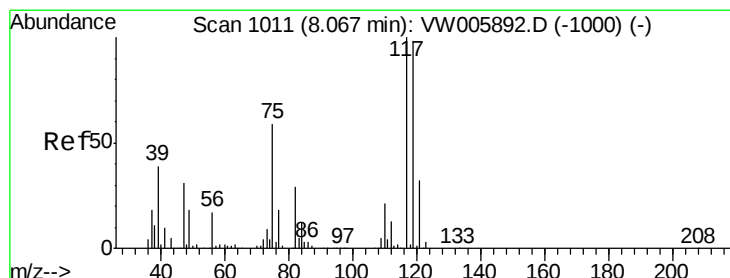
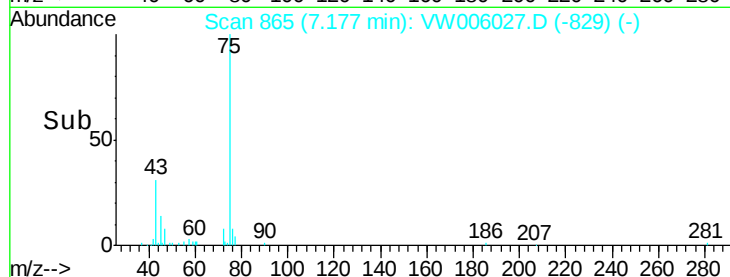
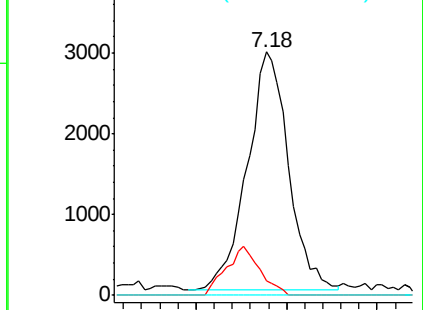
70 0.0 8.6 13.0#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 70.00 (69.70 to 70.70): VW



#38

Carbon Tetrachloride

Concen: 5.78 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW006027.D

Acq: 11 Oct 2018 13:03

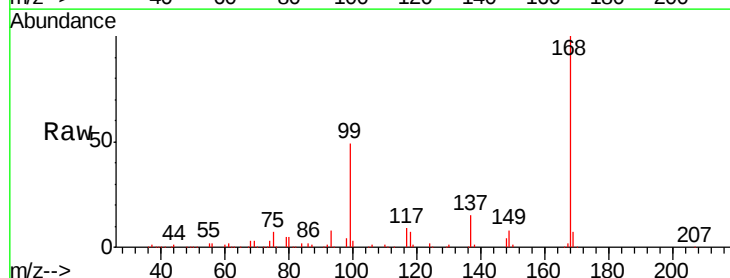
Tgt Ion: 117 Resp: 15140

Ion Ratio Lower Upper

117 100

119 5.6 78.6 117.8#

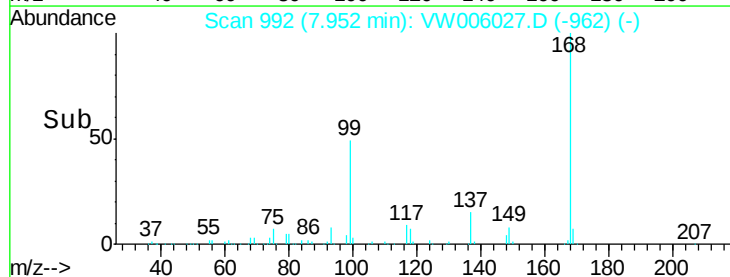
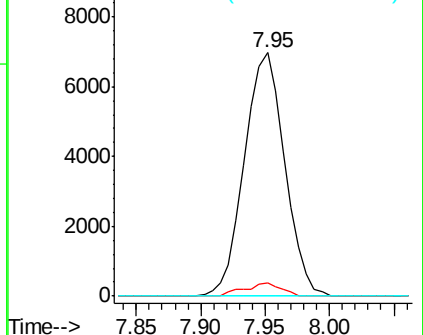
121 0.0 25.3 37.9#

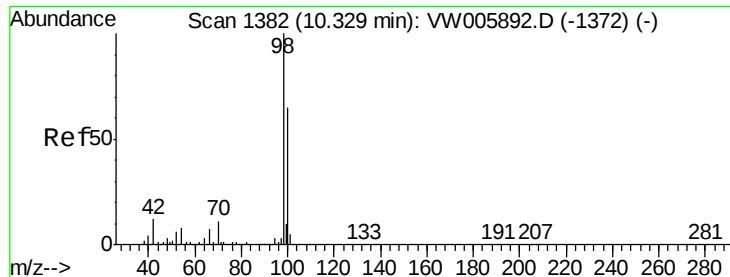


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 49.94 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VW006027.D

Acq: 11 Oct 2018 13:03

Instrument :

MSVOA_W

ClientSampleId :

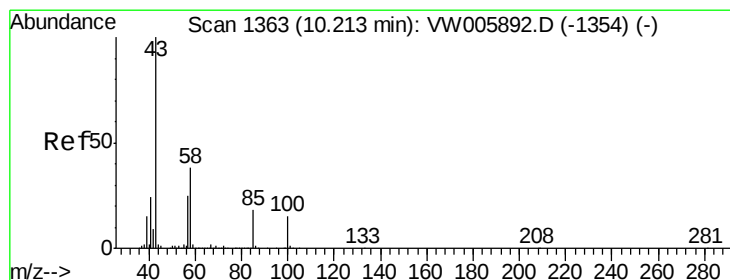
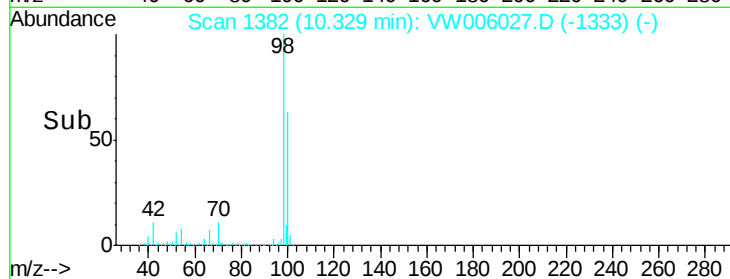
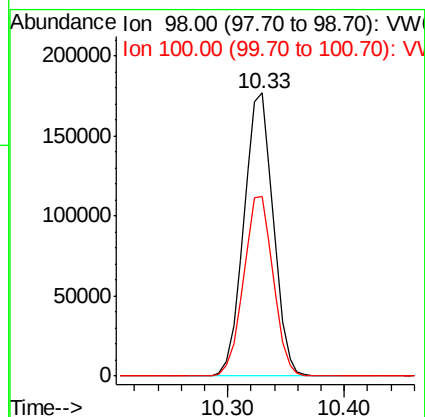
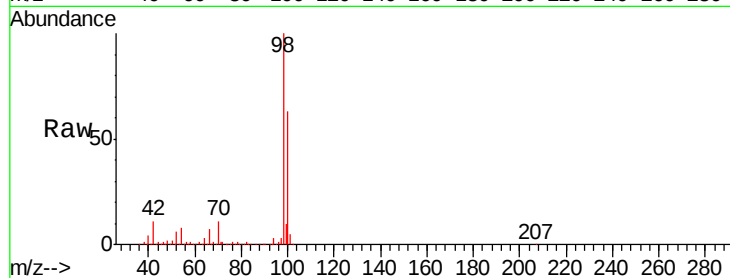
0691-KM-PA-AMD-COMP

Tgt Ion: 98 Resp: 312168

Ion Ratio Lower Upper

98 100

100 63.9 51.9 77.9



#51

4-Methyl-2-Pentanone

Concen: 1.70 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW006027.D

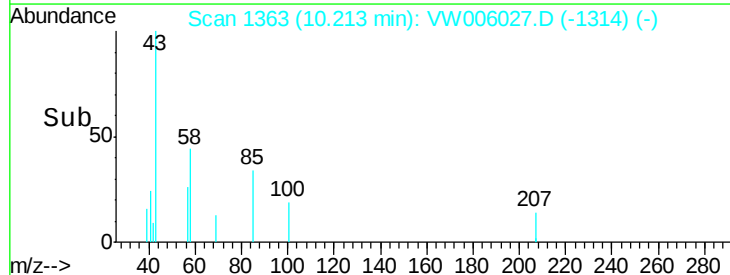
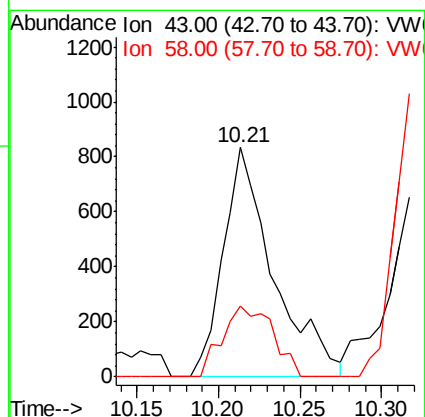
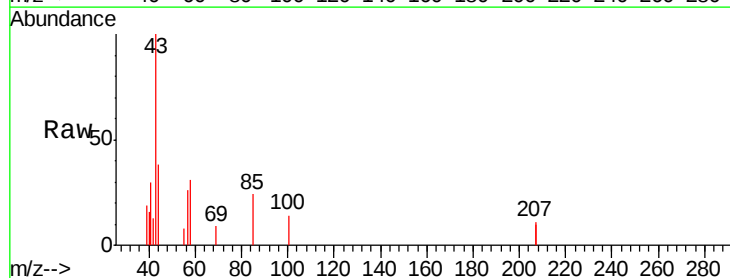
Acq: 11 Oct 2018 13:03

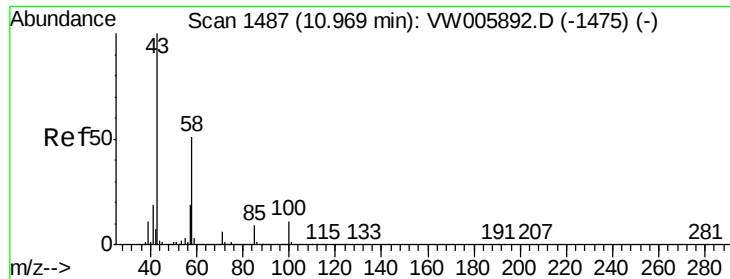
Tgt Ion: 43 Resp: 1784

Ion Ratio Lower Upper

43 100

58 31.0 30.2 45.4





#59

2-Hexanone

Concen: 1.07 ug/l

RT: 10.98 min Scan# 1488

Delta R.T. 0.01 min

Lab File: VW006027.D

Acq: 11 Oct 2018 13:03

Instrument :

MSVOA_W

ClientSampleId :

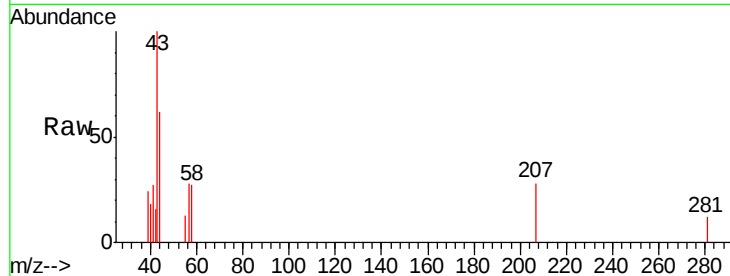
0691-KM-PA-AMD-COMP

Tgt Ion: 43 Resp: 806

Ion Ratio Lower Upper

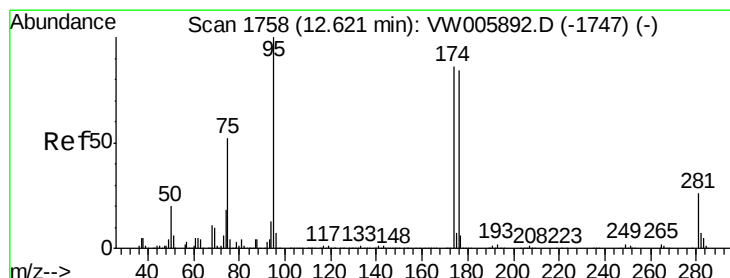
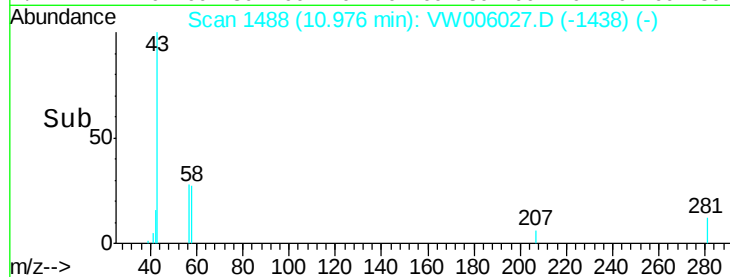
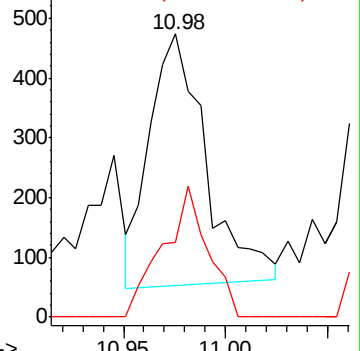
43 100

58 41.4 25.7 77.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#62

4-Bromofluorobenzene

Concen: 41.08 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW006027.D

Acq: 11 Oct 2018 13:03

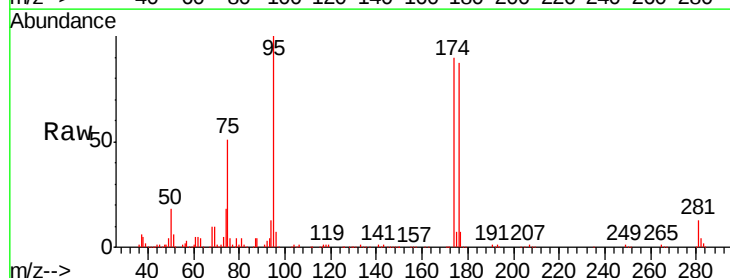
Tgt Ion: 95 Resp: 97679

Ion Ratio Lower Upper

95 100

174 92.8 0.0 176.4

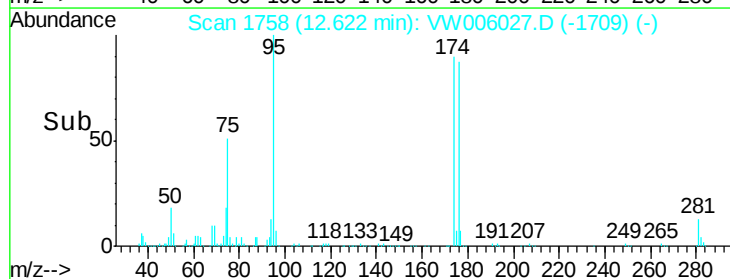
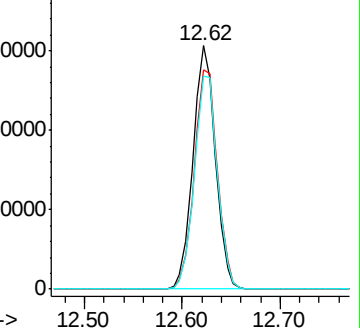
176 89.5 0.0 173.0

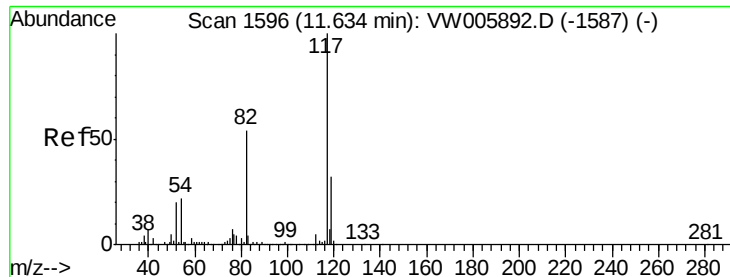


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

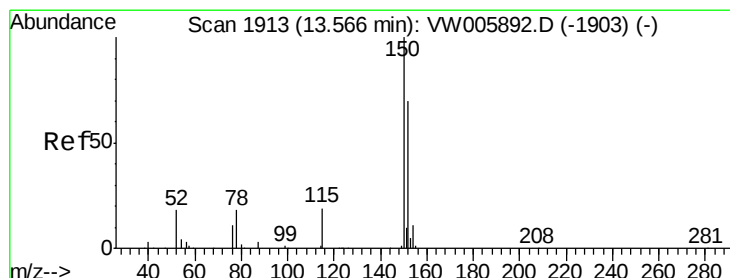
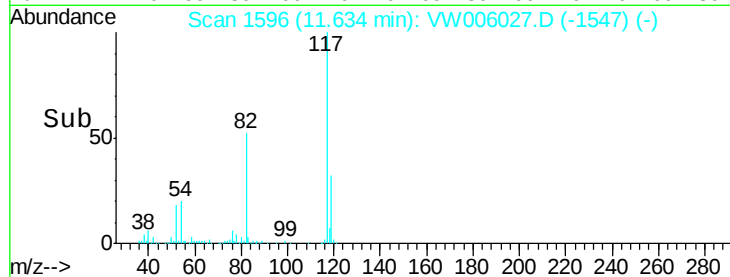
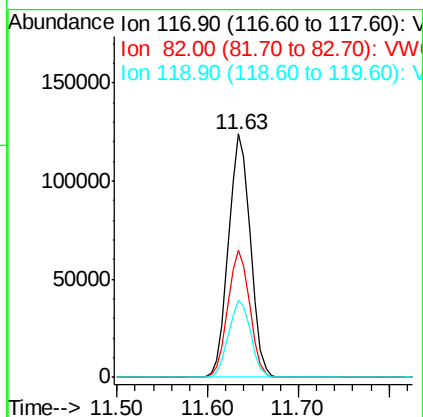
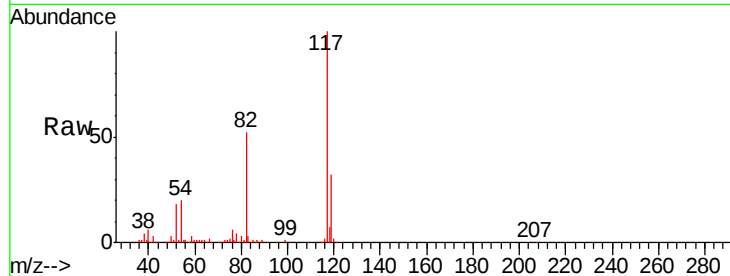




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW006027.D
Acq: 11 Oct 2018 13:03

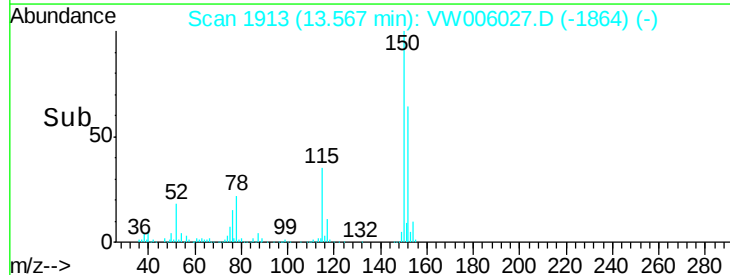
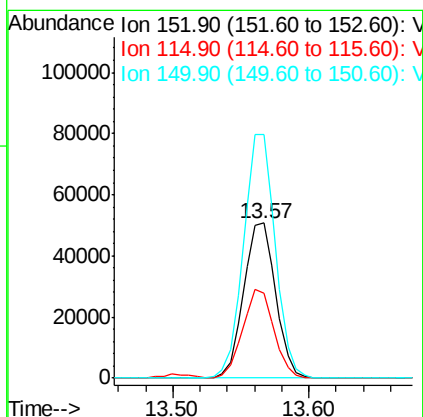
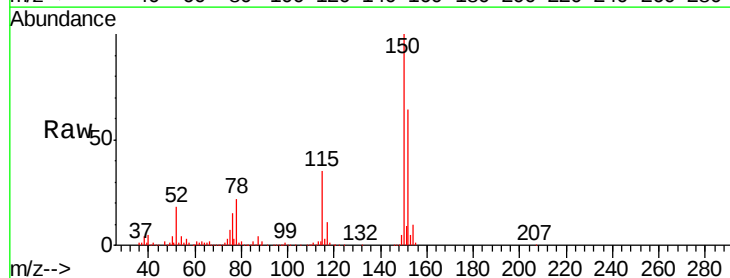
Instrument :
MSVOA_W
ClientSampleId :
0691-KM-PA-AMD-COMP

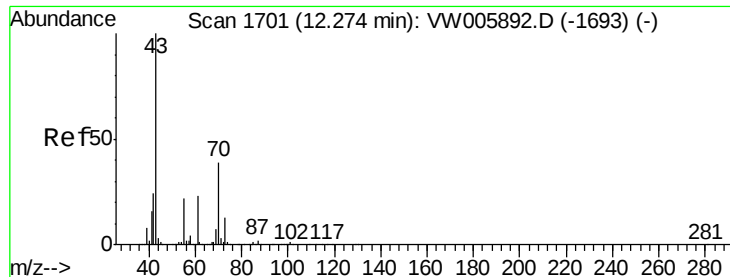
Tgt Ion:117 Resp: 207103
Ion Ratio Lower Upper
117 100
82 52.1 43.5 65.3
119 31.9 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.57 min Scan# 1913
Delta R.T. 0.00 min
Lab File: VW006027.D
Acq: 11 Oct 2018 13:03

Tgt Ion:152 Resp: 83467
Ion Ratio Lower Upper
152 100
115 55.6 28.3 85.0
150 155.9 0.0 349.2

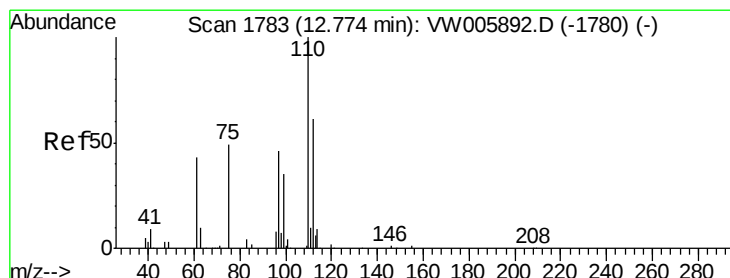
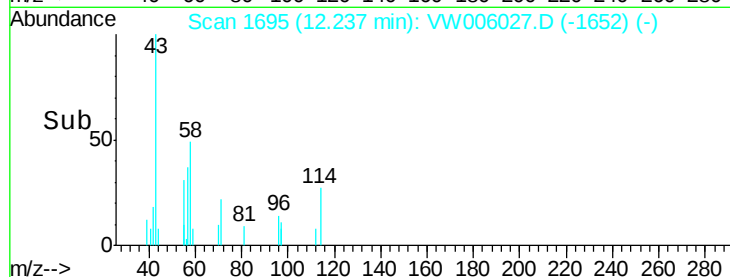
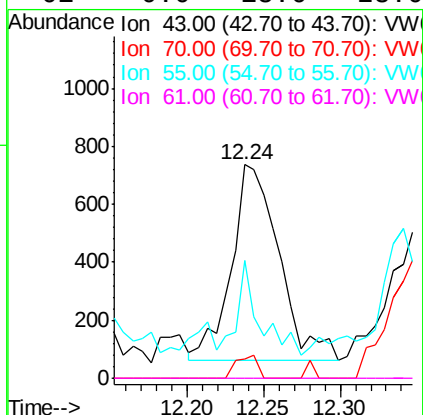
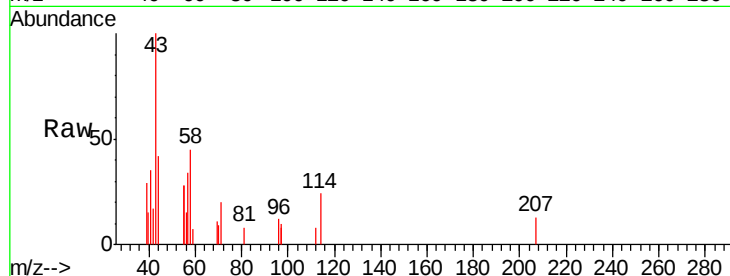




#74
N-ethyl acetate
Concen: 1.02 ug/l
RT: 12.24 min Scan# 1695
Delta R.T. -0.04 min
Lab File: VW006027.D
Acq: 11 Oct 2018 13:03

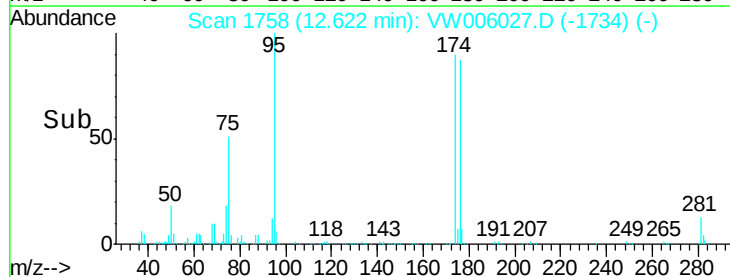
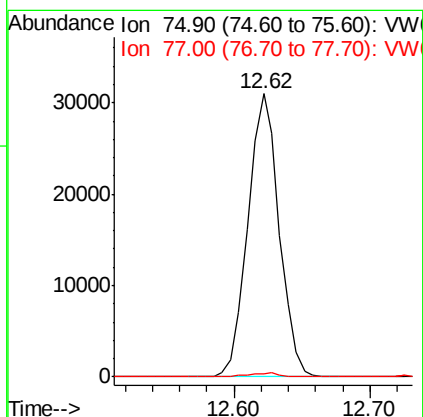
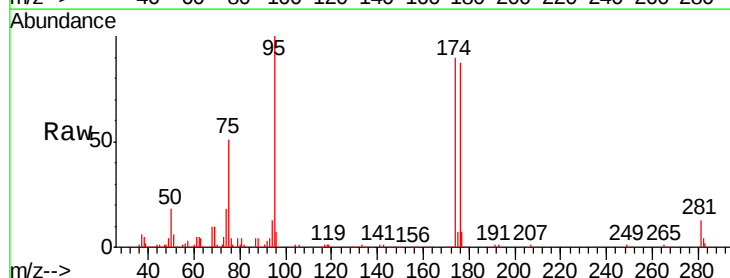
Instrument :
MSVOA_W
ClientSampleId :
0691-KM-PA-AMD-COMP

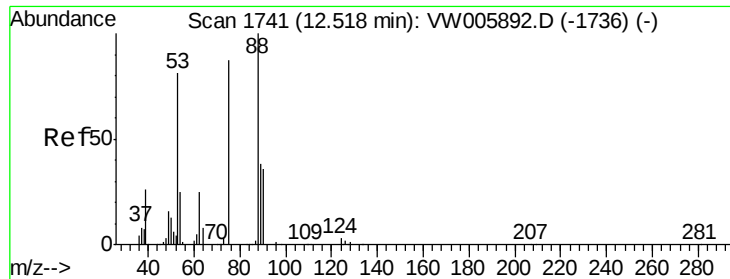
Tgt Ion:	43	Resp:	1475
Ion	Ratio	Lower	Upper
43	100		
70	5.2	31.6	47.4#
55	24.9	17.9	26.9
61	0.0	18.6	28.0#



#76
1,2,3-Trichloropropane
Concen: 66.74 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.15 min
Lab File: VW006027.D
Acq: 11 Oct 2018 13:03

Tgt Ion:	75	Resp:	49764
Ion	Ratio	Lower	Upper
75	100		
77	1.4	0.0	0.0#

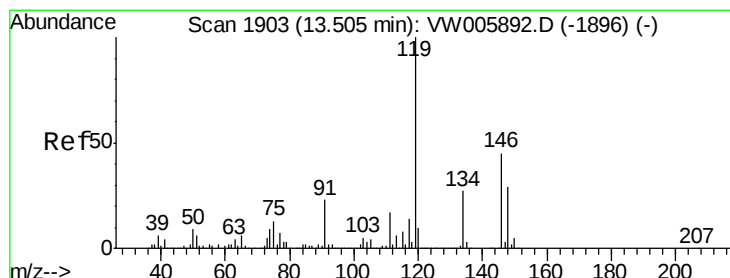
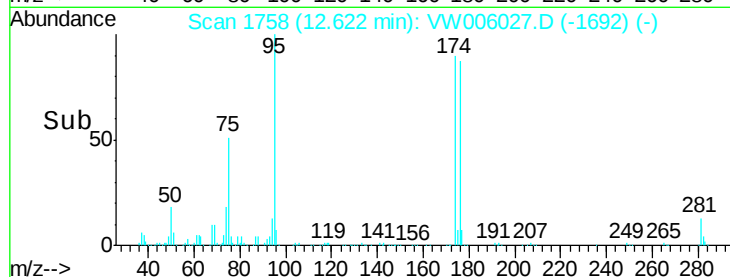
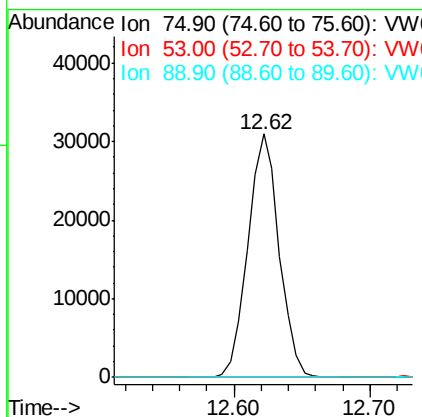
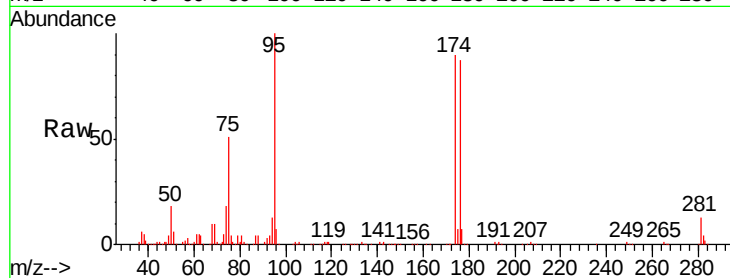




#81
trans-1,4-Dichloro-2-butene
Concen: 140.90 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.10 min
Lab File: VW006027.D
Acq: 11 Oct 2018 13:03

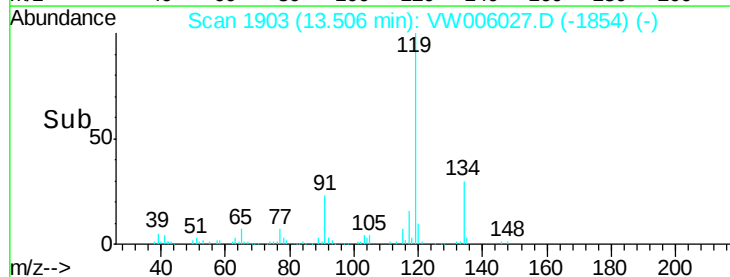
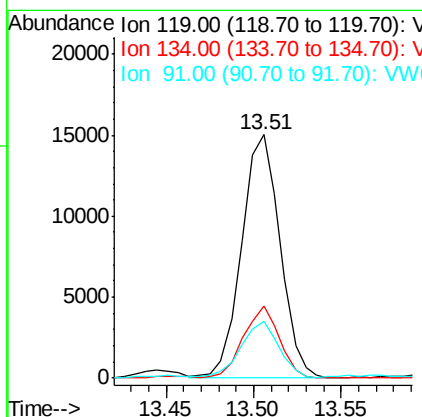
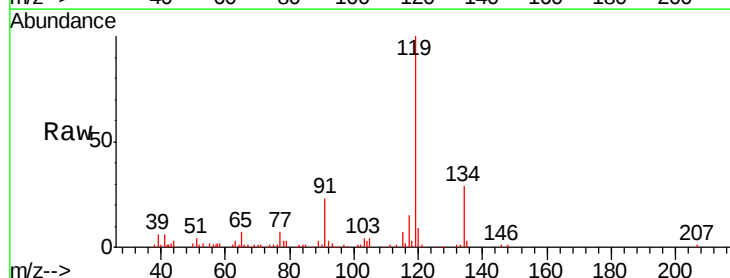
Instrument :
MSVOA_W
ClientSampleId :
0691-KM-PA-AMD-COMP

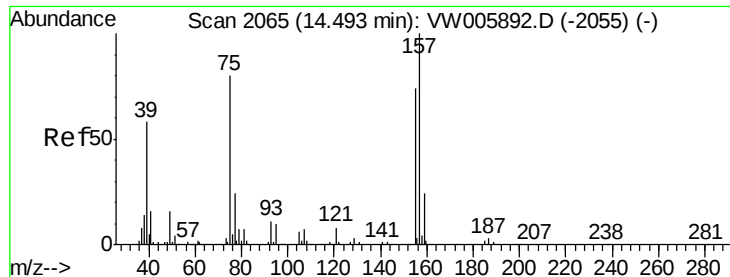
Tgt Ion: 75 Resp: 49764
Ion Ratio Lower Upper
75 100
53 0.0 76.5 114.7#
89 0.1 37.6 56.4#



#86
p-Isopropyltoluene
Concen: 3.97 ug/l
RT: 13.51 min Scan# 1903
Delta R.T. 0.00 min
Lab File: VW006027.D
Acq: 11 Oct 2018 13:03

Tgt Ion: 119 Resp: 22935
Ion Ratio Lower Upper
119 100
134 27.7 13.5 40.5
91 23.6 11.9 35.5

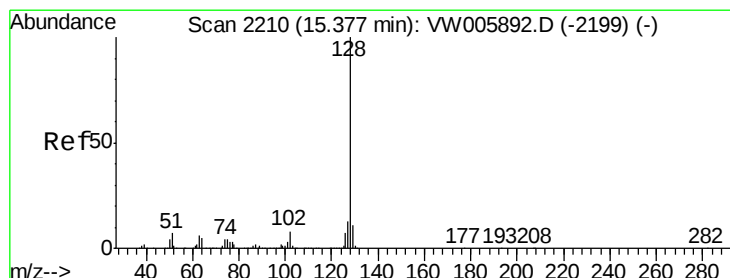
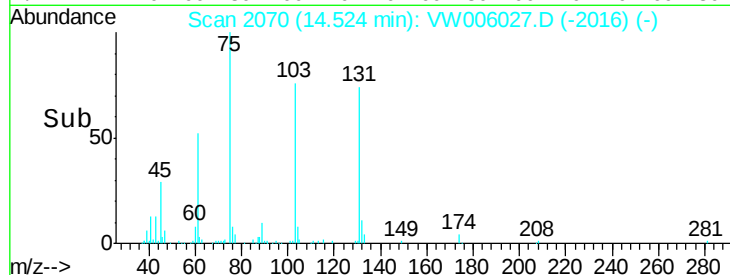
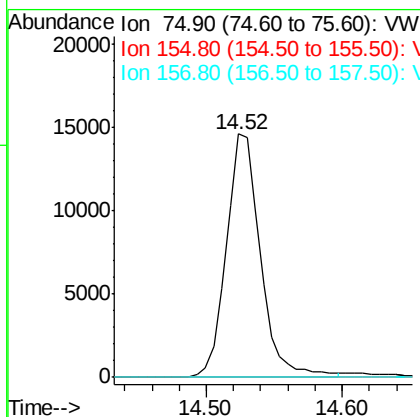
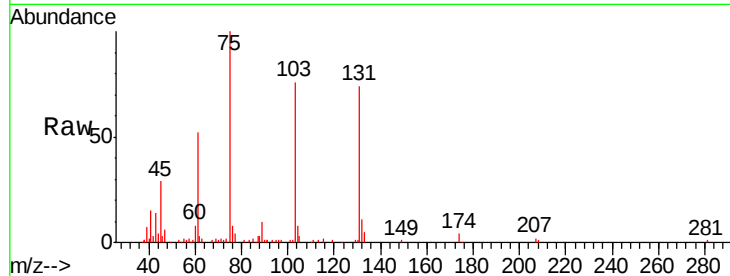




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 136.75 ug/l
 RT: 14.52 min Scan# 2070
 Delta R.T. 0.03 min
 Lab File: VW006027.D
 Acq: 11 Oct 2018 13:03

Instrument :
 MSVOA_W
 ClientSampleId :
 0691-KM-PA-AMD-COMP

Tgt Ion: 75 Resp: 25463
 Ion Ratio Lower Upper
 75 100
 155 0.0 44.8 134.3#
 157 0.0 58.9 176.6#



#95
 Naphthalene
 Concen: 1.27 ug/l
 RT: 15.38 min Scan# 2210
 Delta R.T. 0.00 min
 Lab File: VW006027.D
 Acq: 11 Oct 2018 13:03

Tgt Ion: 128 Resp: 4331
 Ion Ratio Lower Upper
 128 100
 127 14.3 10.5 15.7
 129 12.6 8.9 13.3

