

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW082919\
 Data File : VW012301.D
 Acq On : 29 Aug 2019 14:20
 Operator : SY/VA
 Sample : K4595-05
 Misc : 5.81G/5ML/MSVOA_W/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 S503-K2-9.5-10.0-082819

Quant Time: Aug 30 06:48:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 26 07:18:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	236969	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	390718	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	323398	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	135963	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	142366	50.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.08%	
35) Dibromofluoromethane	7.88	113	115334	49.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.90%	
50) Toluene-d8	10.32	98	474483	50.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.36%	
62) 4-Bromofluorobenzene	12.62	95	155237	46.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.14%	

Target Compounds

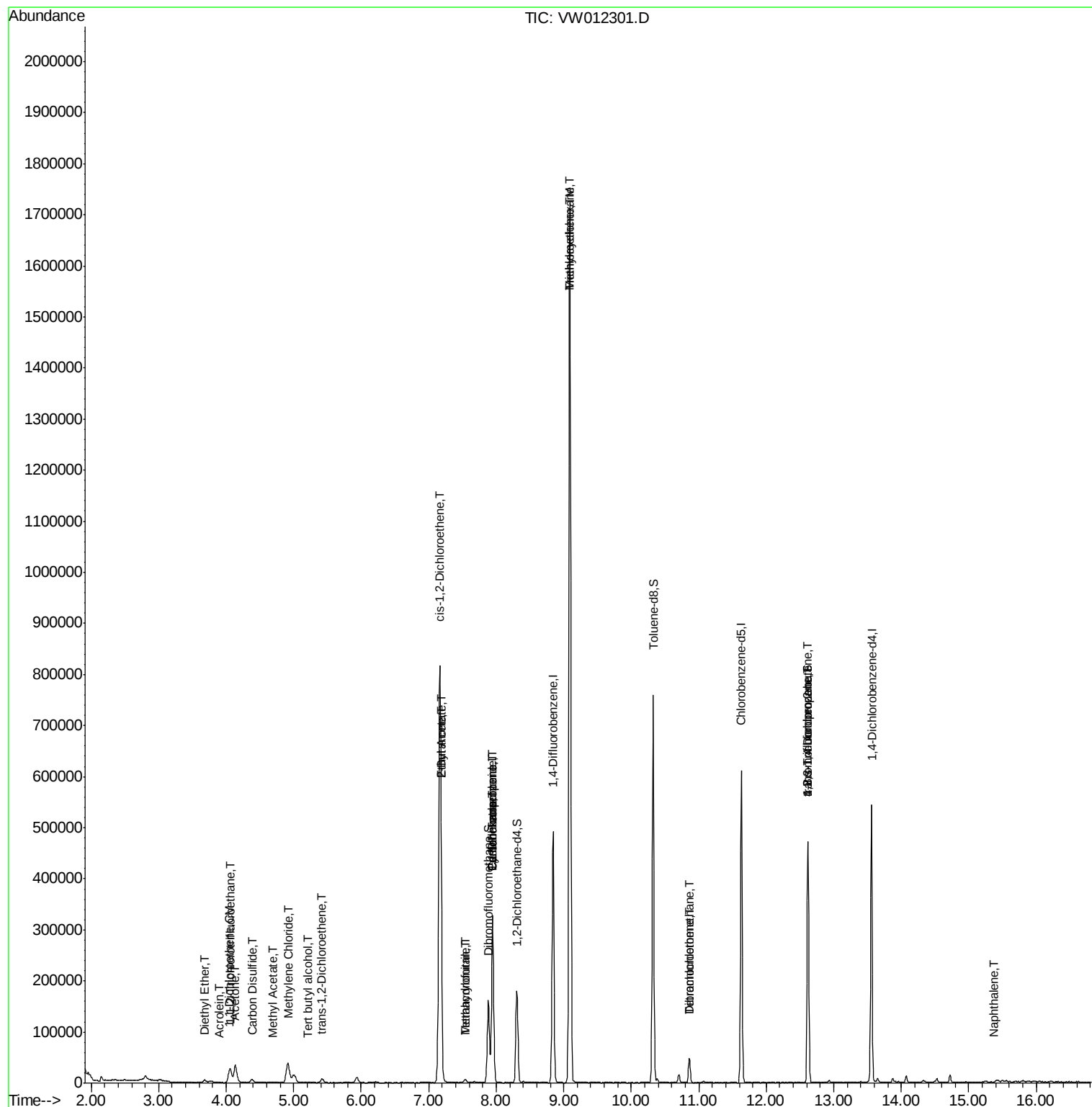
						Qvalue
8) Diethyl Ether	3.68	74	2650	2.010	ug/l #	29
9) 1,1,2-Trichlorotrifluoroet	4.06	101	19625	8.310	ug/l	100
11) Tert butyl alcohol	5.20	59	581	3.427	ug/l #	83
12) 1,1-Dichloroethene	4.04	96	3153	1.327	ug/l	90
13) Acrolein	3.90	56	298	1.867	ug/l #	82
16) Acetone	4.14	43	64709	89.864	ug/l	96
17) Carbon Disulfide	4.39	76	13586	1.891	ug/l	99
18) Methyl Acetate	4.68	43	2372	1.330	ug/l	96
20) Methylene Chloride	4.91	84	30895	11.349	ug/l	95
21) trans-1,2-Dichloroethene	5.42	96	4062	1.594	ug/l #	83
25) 2-Butanone	7.19	43	3046	3.113	ug/l #	1
27) cis-1,2-Dichloroethene	7.17	96	466974	171.477	ug/l	92
29) Tetrahydrofuran	7.53	42	6040	10.289	ug/l	98
31) Cyclohexane	7.95	56	5800	1.143	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	20454	5.066	ug/l #	51
37) Ethyl Acetate	7.19	43	3178	1.436	ug/l #	73
38) Carbon Tetrachloride	7.95	117	23775	6.803	ug/l #	16
39) Methylcyclohexane	9.09	83	7674	1.692	ug/l #	1
41) Methacrylonitrile	7.54	41	3510	2.699	ug/l #	54
44) Trichloroethene	9.09	130	580337	216.533	ug/l	97
60) Dibromochloromethane	10.86	129	9699	4.662	ug/l #	11
64) Tetrachloroethene	10.87	164	10921	5.209	ug/l	89
76) 1,2,3-Trichloropropane	12.62	75	82544	62.336	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	82544	136.674	ug/l #	6
95) Naphthalene	15.37	128	229	4.362	ug/l #	69

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

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Sample : K4595-05
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
Quant Title : SW846 8260
QLast Update : Mon Aug 26 07:18:31 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: VW012301.D

Acq: 29 Aug 2019 14:20

Instrument :

MSVOA_W

ClientSampleId :

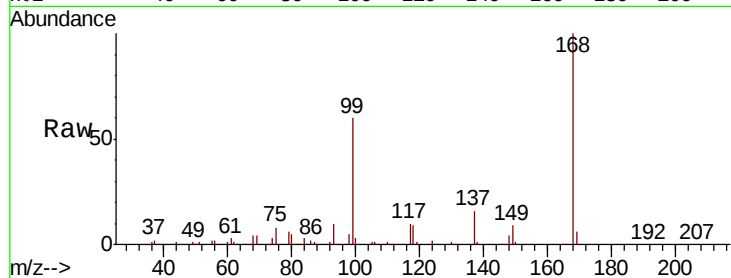
S503-K2-9.5-10.0-082819

Tgt Ion:168 Resp: 236969

Ion Ratio Lower Upper

168 100

99 60.4 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

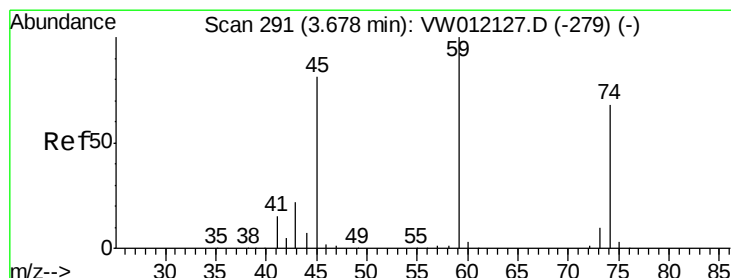
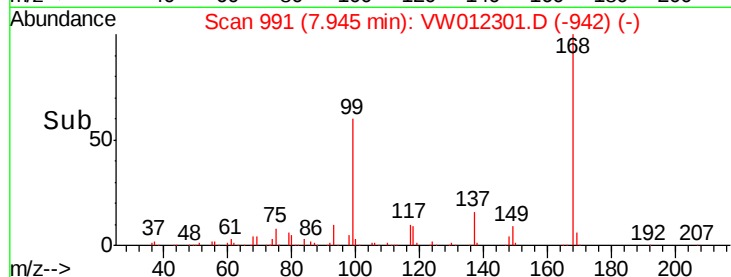
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 2.010 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW012301.D

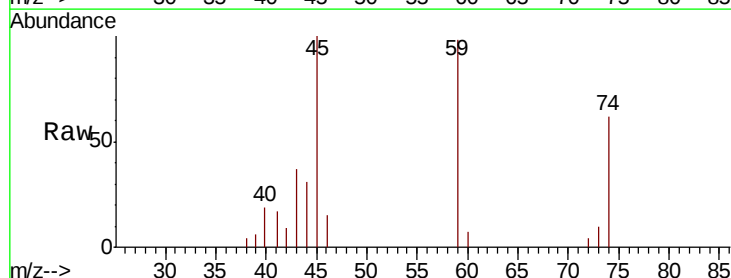
Acq: 29 Aug 2019 14:20

Tgt Ion: 74 Resp: 2650

Ion Ratio Lower Upper

74 100

45 196.2 59.2 177.6#



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

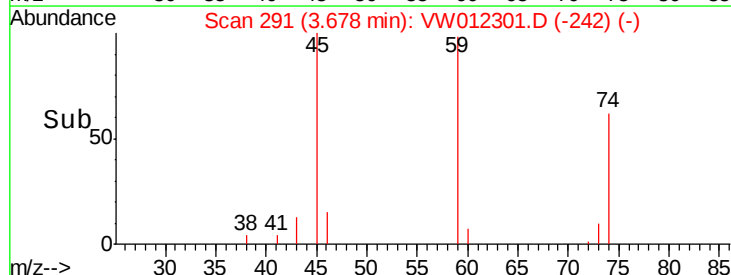
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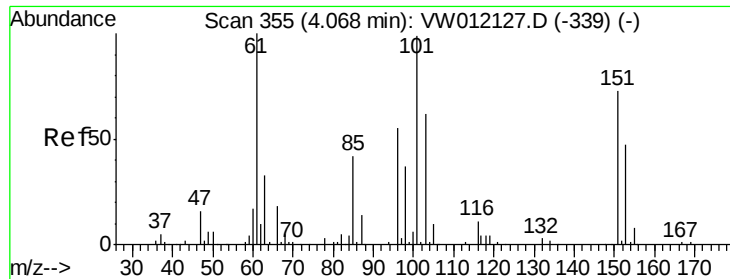
1000

500

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 8.310 ug/l

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW012301.D

Acq: 29 Aug 2019 14:20

Instrument :

MSVOA_W

ClientSampleId :

S503-K2-9.5-10.0-082819

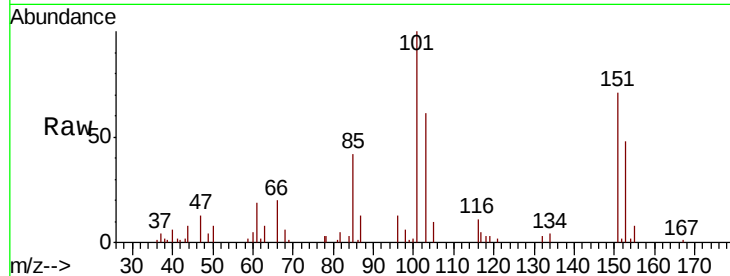
Tgt Ion:101 Resp: 19625

Ion Ratio Lower Upper

101 100

85 45.0 35.8 53.6

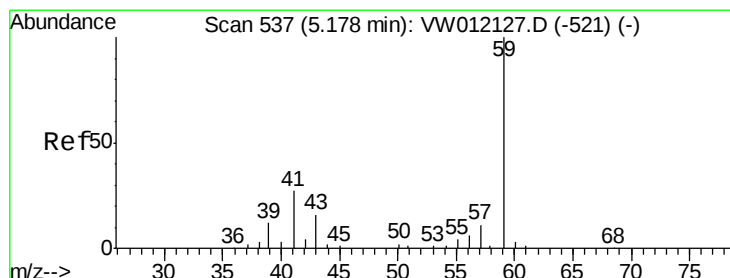
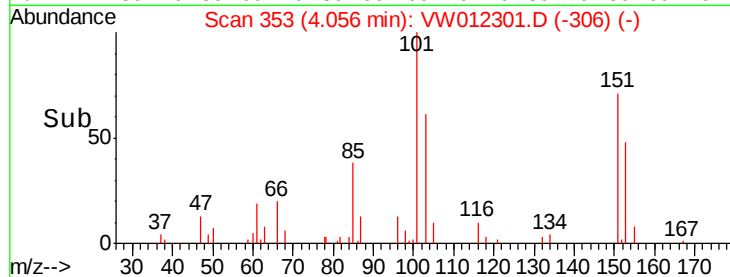
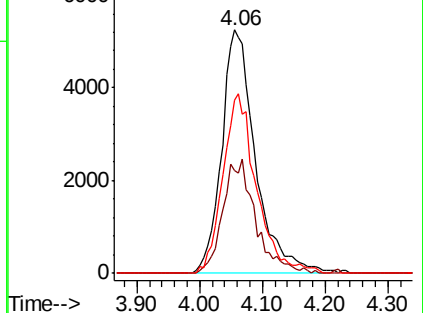
151 73.0 58.6 87.8



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VW

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 3.427 ug/l

RT: 5.20 min Scan# 541

Delta R.T. 0.02 min

Lab File: VW012301.D

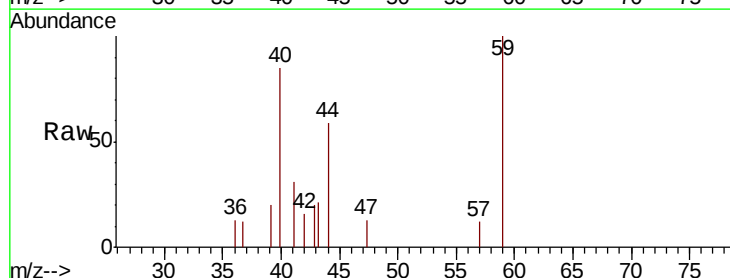
Acq: 29 Aug 2019 14:20

Tgt Ion: 59 Resp: 581

Ion Ratio Lower Upper

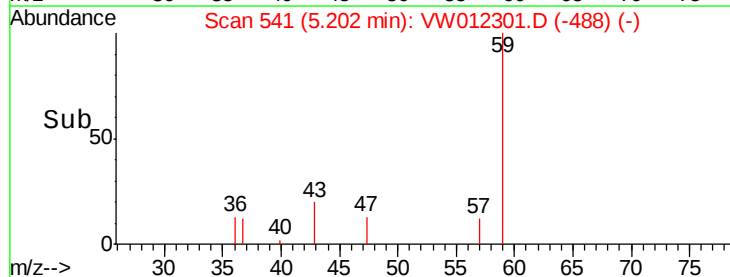
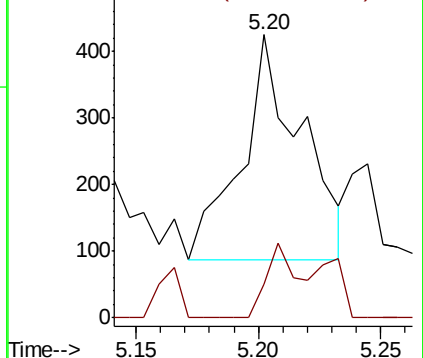
59 100

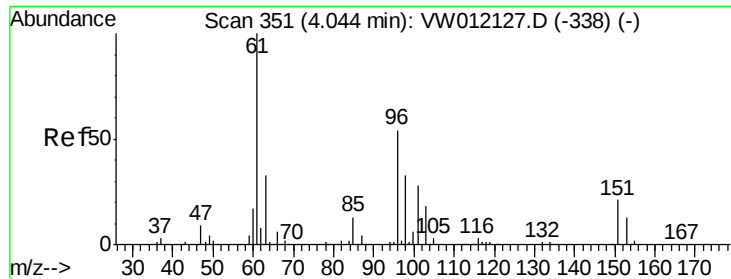
57 17.6 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

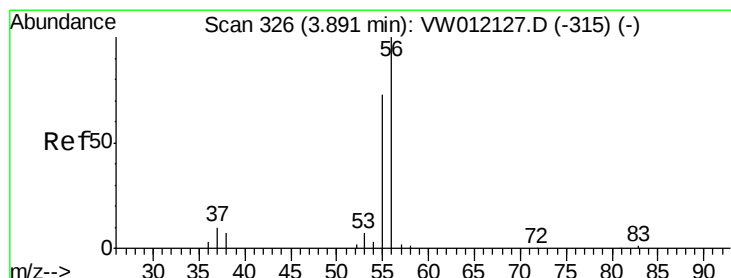
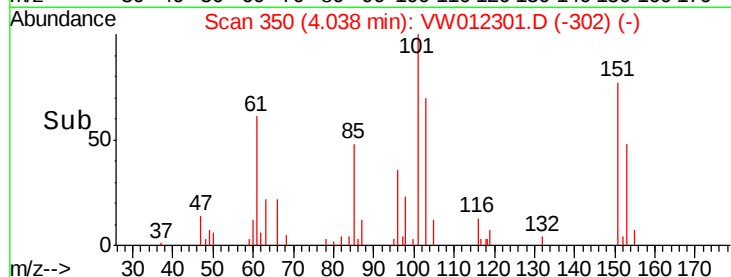
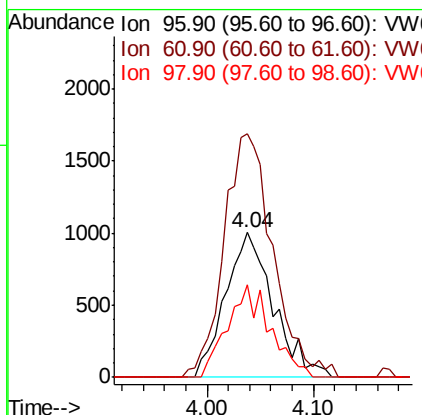
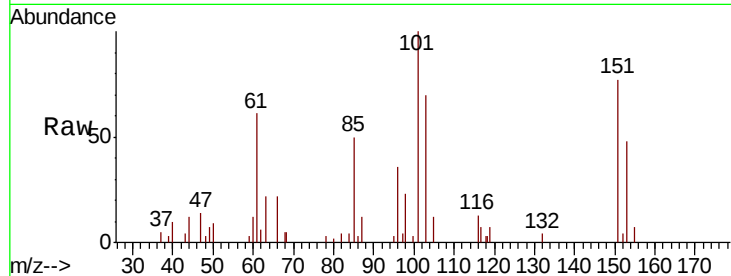




#12
 1,1-Dichloroethene
 Concen: 1.327 ug/l
 RT: 4.04 min Scan# 350
 Delta R.T. -0.01 min
 Lab File: VW012301.D
 Acq: 29 Aug 2019 14:20

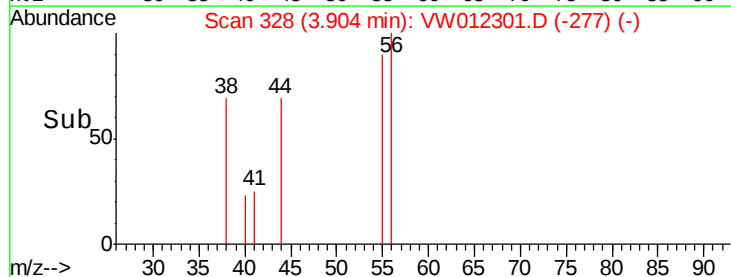
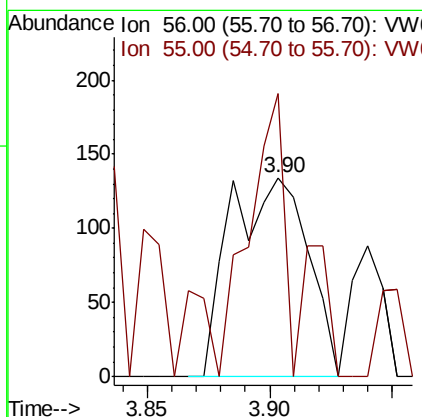
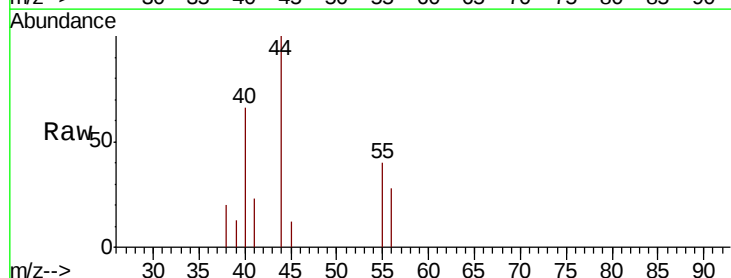
Instrument :
 MSVOA_W
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 S503-K2-9.5-10.0-082819

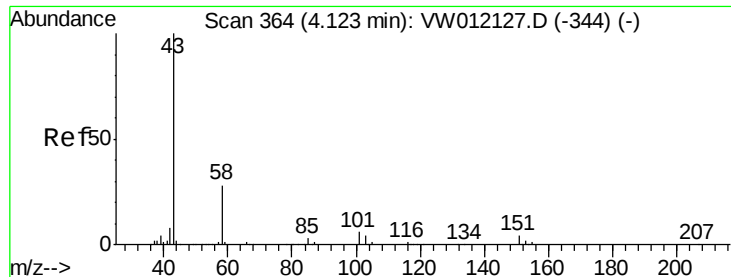
Tgt Ion: 96 Resp: 3153
 Ion Ratio Lower Upper
 96 100
 61 168.6 149.1 223.7
 98 63.8 49.4 74.2



#13
 Acrolein
 Concen: 1.867 ug/l
 RT: 3.90 min Scan# 328
 Delta R.T. 0.01 min
 Lab File: VW012301.D
 Acq: 29 Aug 2019 14:20

Tgt Ion: 56 Resp: 298
 Ion Ratio Lower Upper
 56 100
 55 84.9 55.8 83.8#





#16

Acetone

Concen: 89.864 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW012301.D

Acq: 29 Aug 2019 14:20

Instrument :

MSVOA_W

ClientSampleId :

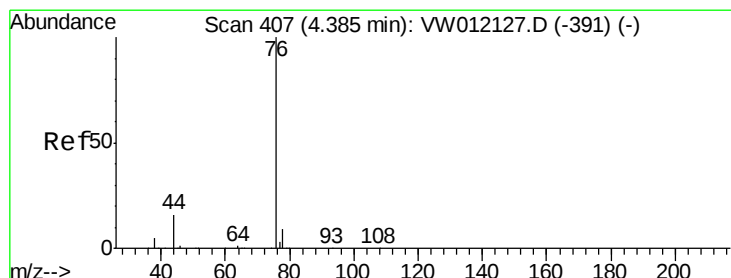
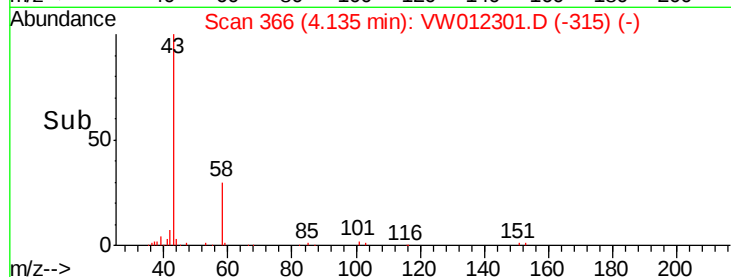
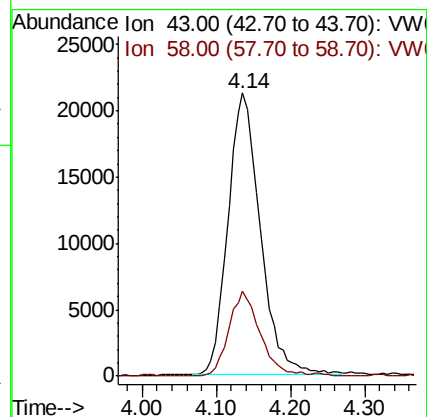
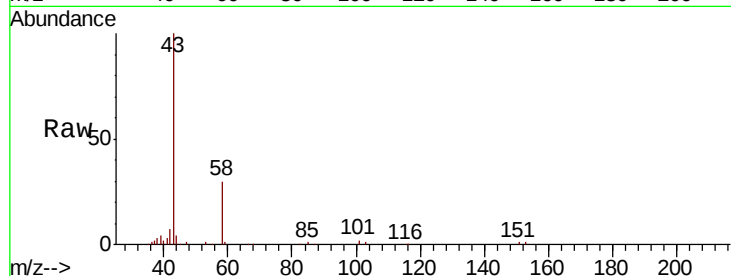
S503-K2-9.5-10.0-082819

Tgt Ion: 43 Resp: 64709

Ion Ratio Lower Upper

43 100

58 30.4 22.4 33.6



#17

Carbon Disulfide

Concen: 1.891 ug/l

RT: 4.39 min Scan# 407

Delta R.T. -0.00 min

Lab File: VW012301.D

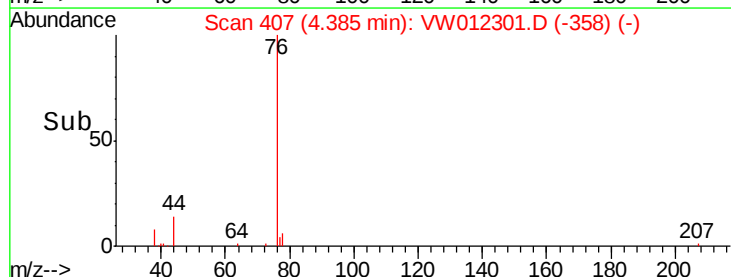
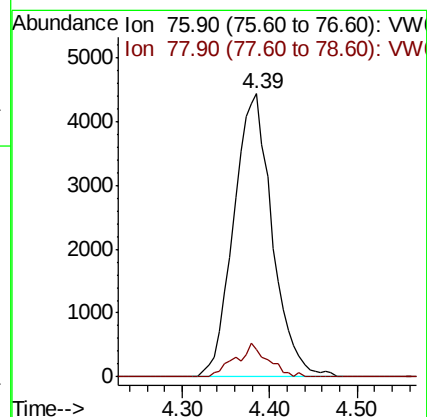
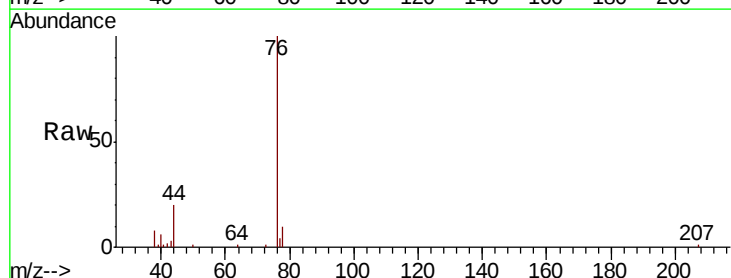
Acq: 29 Aug 2019 14:20

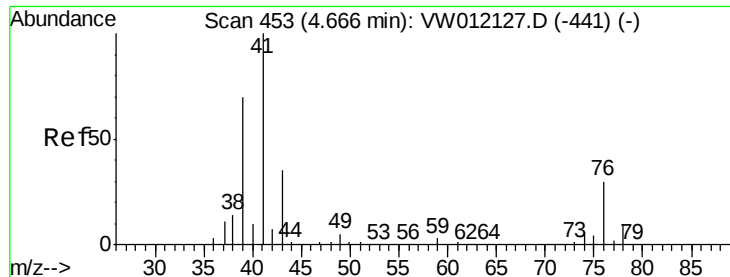
Tgt Ion: 76 Resp: 13586

Ion Ratio Lower Upper

76 100

78 9.5 7.3 10.9

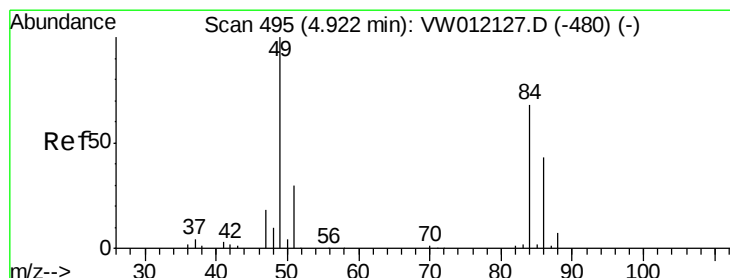
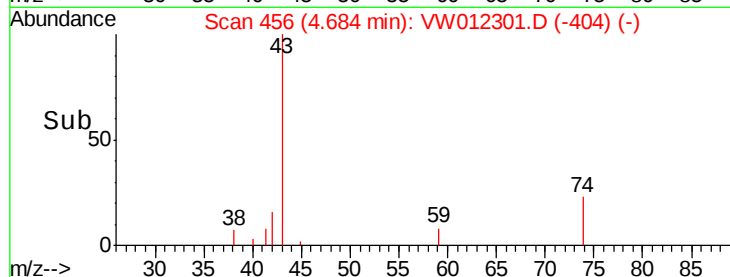
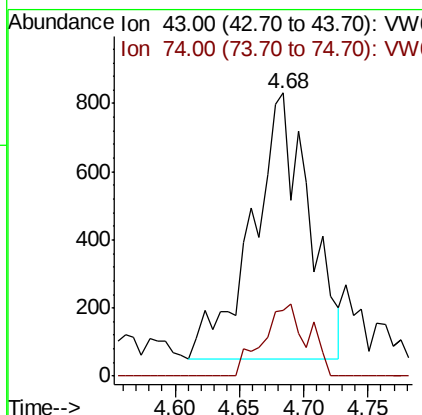
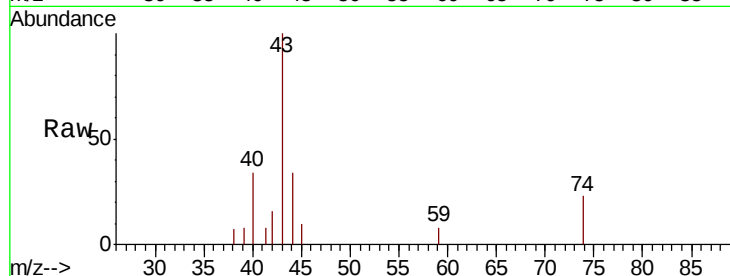




#18
Methyl Acetate
Concen: 1.330 ug/l
RT: 4.68 min Scan# 456
Delta R.T. 0.02 min
Lab File: VW012301.D
Acq: 29 Aug 2019 14:20

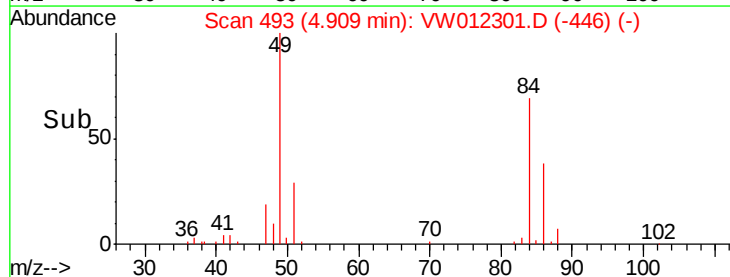
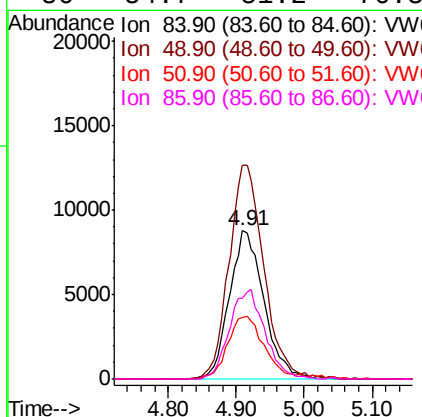
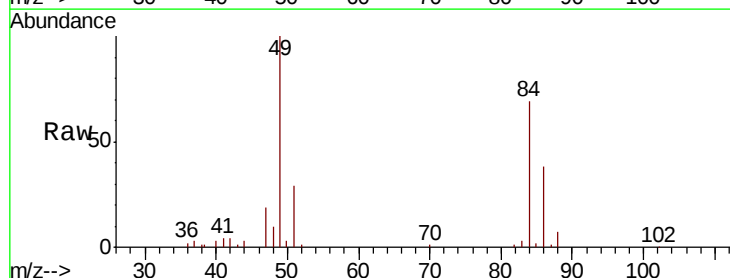
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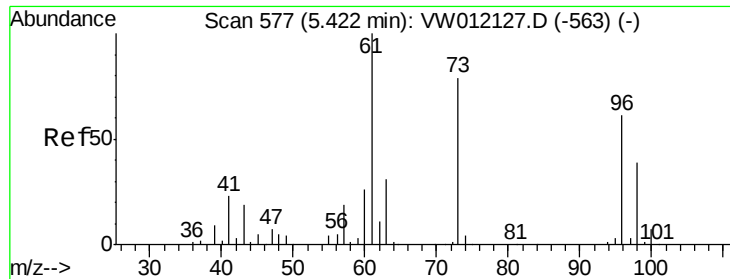
Tgt Ion: 43 Resp: 2372
Ion Ratio Lower Upper
43 100
74 21.3 15.7 23.5



#20
Methylene Chloride
Concen: 11.349 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW012301.D
Acq: 29 Aug 2019 14:20

Tgt Ion: 84 Resp: 30895
Ion Ratio Lower Upper
84 100
49 143.9 117.8 176.8
51 41.7 35.6 53.4
86 54.7 51.2 76.8

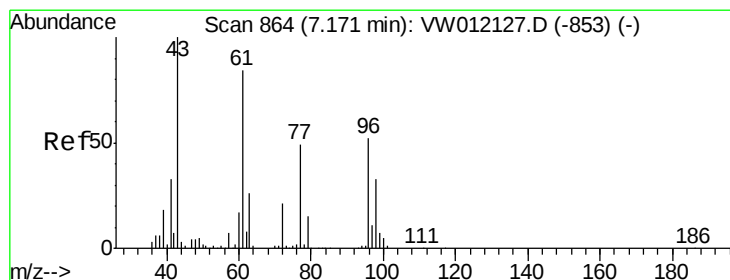
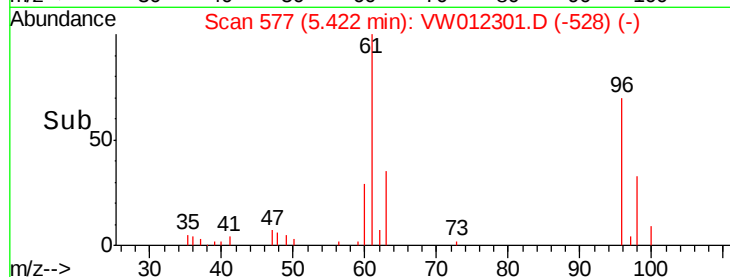
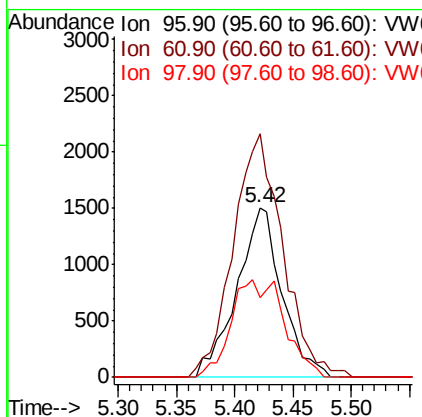
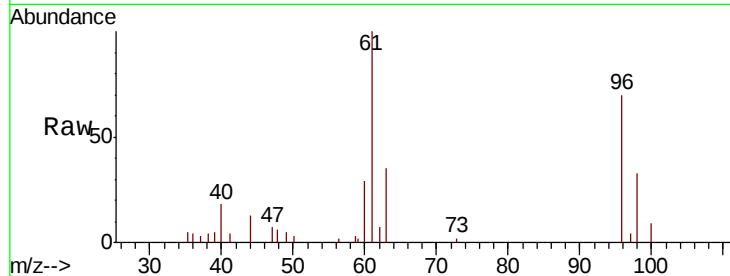




#21
 trans-1,2-Dichloroethene
 Concen: 1.594 ug/l
 RT: 5.42 min Scan# 577
 Delta R.T. -0.00 min
 Lab File: VW012301.D
 Acq: 29 Aug 2019 14:20

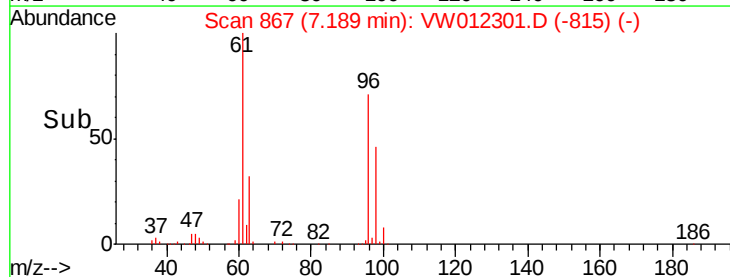
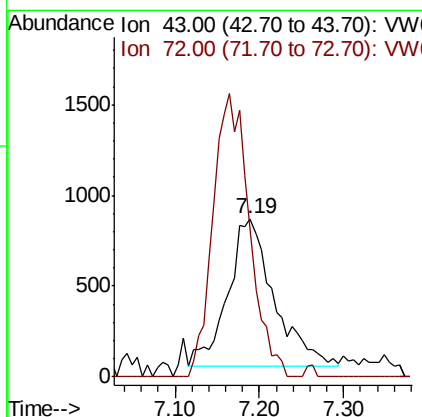
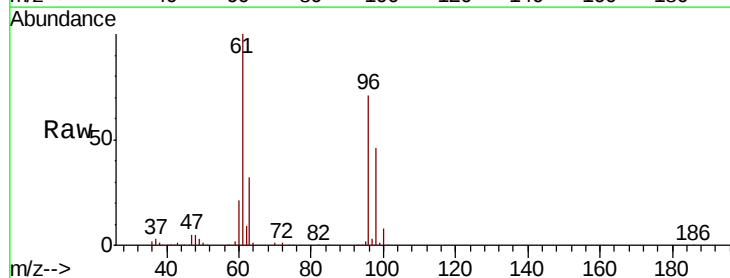
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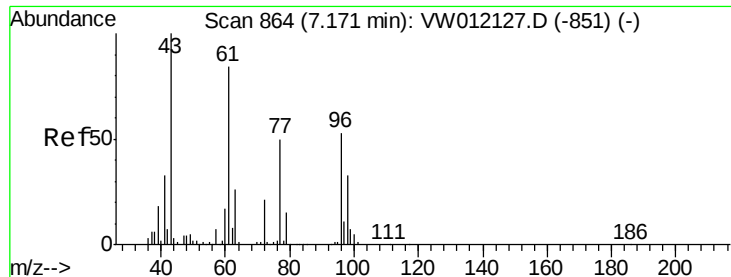
Tgt Ion: 96 Resp: 4062
 Ion Ratio Lower Upper
 96 100
 61 143.7 131.4 197.0
 98 46.9 51.4 77.0#



#25
 2-Butanone
 Concen: 3.113 ug/l
 RT: 7.19 min Scan# 867
 Delta R.T. 0.02 min
 Lab File: VW012301.D
 Acq: 29 Aug 2019 14:20

Tgt Ion: 43 Resp: 3046
 Ion Ratio Lower Upper
 43 100
 72 100.9 16.6 24.8#



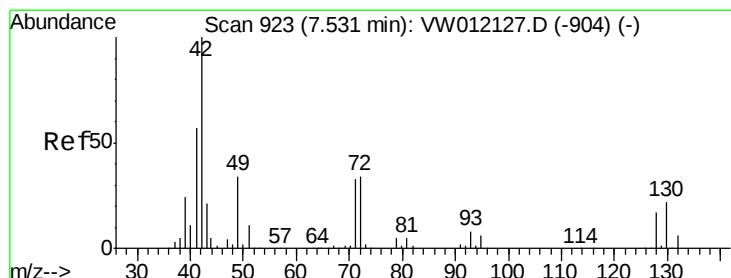
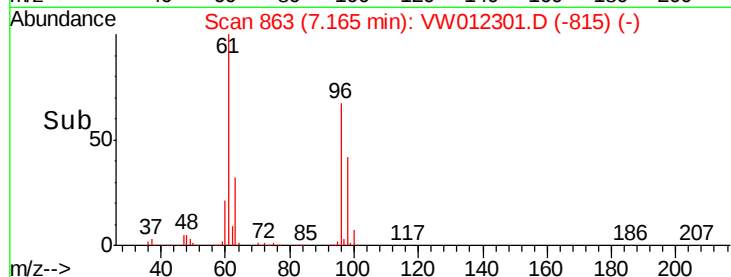
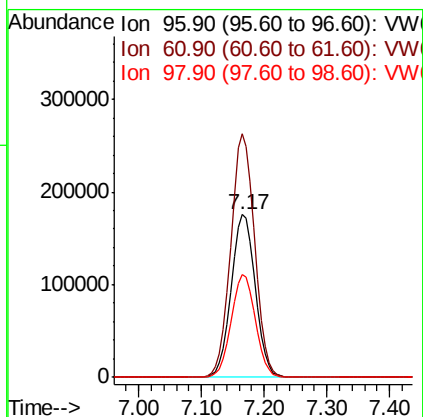
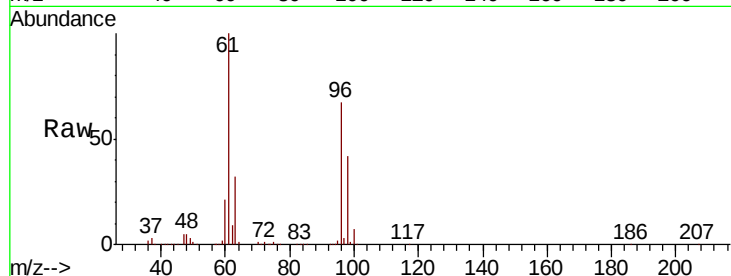


#27

cis-1,2-Dichloroethene
 Concen: 171.477 ug/l
 RT: 7.17 min Scan# 863
 Delta R.T. -0.01 min
 Lab File: VW012301.D
 Acq: 29 Aug 2019 14:20

Instrument :
 MSVOA_W
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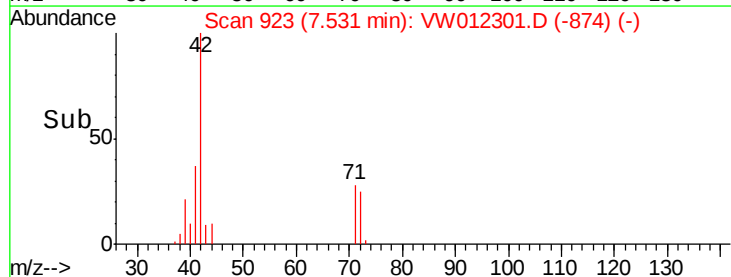
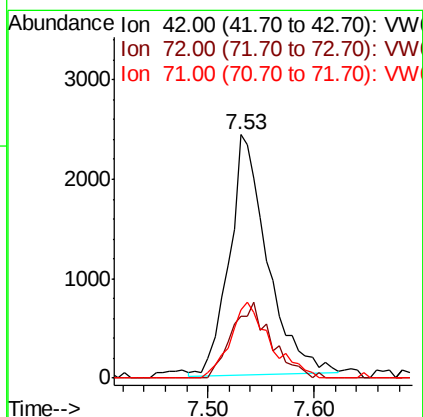
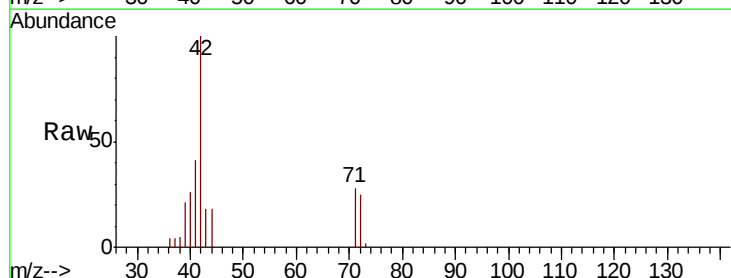
Tgt Ion	Ratio	Lower	Upper
96	100		
61	148.1	0.0	326.6
98	63.3	0.0	127.4

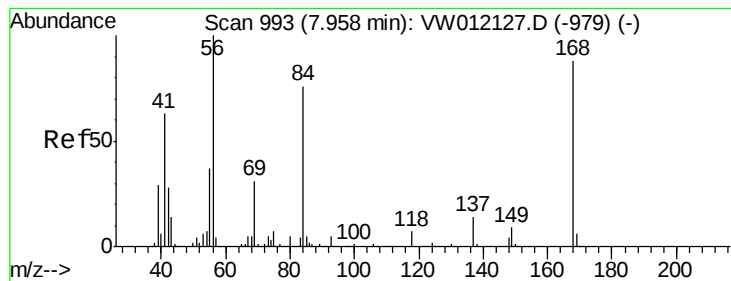


#29

Tetrahydrofuran
 Concen: 10.289 ug/l
 RT: 7.53 min Scan# 923
 Delta R.T. -0.00 min
 Lab File: VW012301.D
 Acq: 29 Aug 2019 14:20

Tgt Ion	Ratio	Lower	Upper
42	100		
72	32.8	27.3	40.9
71	33.2	25.5	38.3





#31

Cyclohexane

Concen: 1.143 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW012301.D

Acq: 29 Aug 2019 14:20

Instrument :

MSVOA_W

ClientSampleId :

S503-K2-9.5-10.0-082819

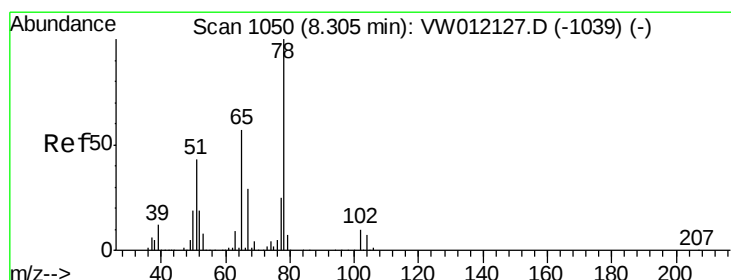
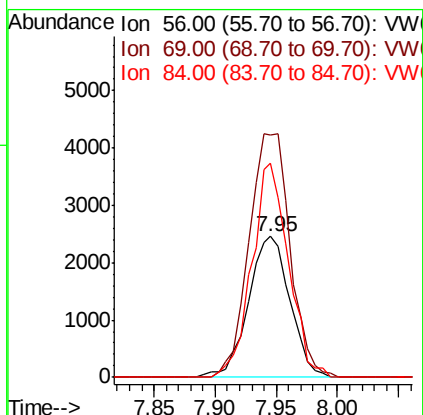
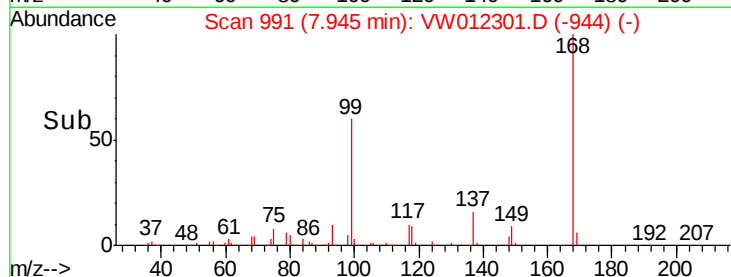
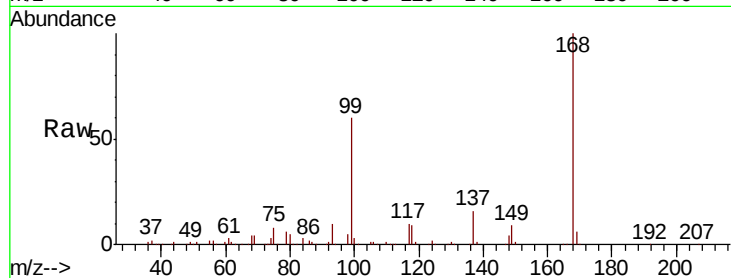
Tgt Ion: 56 Resp: 5800

Ion Ratio Lower Upper

56 100

69 172.1 24.9 37.3#

84 152.0 60.6 90.8#



#33

1,2-Dichloroethane-d4

Concen: 50.538 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012301.D

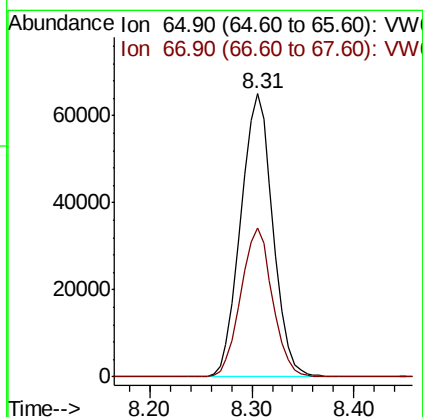
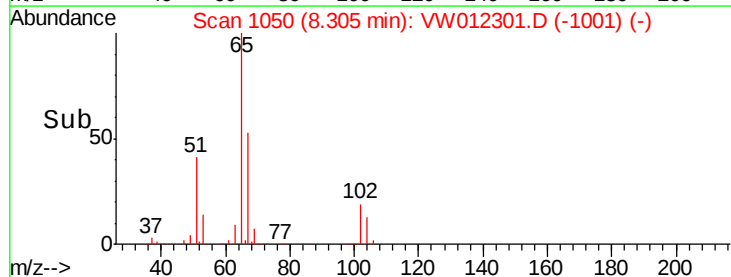
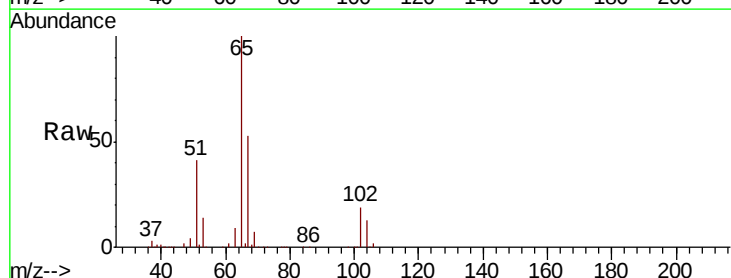
Acq: 29 Aug 2019 14:20

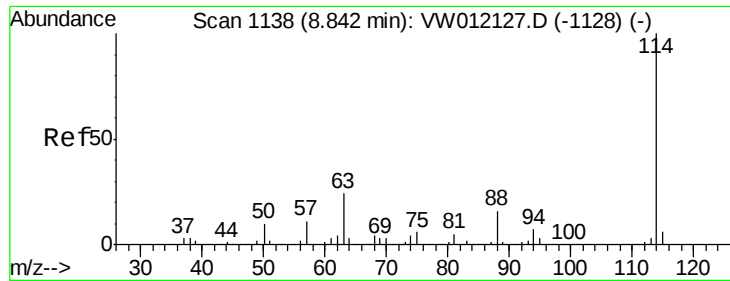
Tgt Ion: 65 Resp: 142366

Ion Ratio Lower Upper

65 100

67 51.7 0.0 102.6

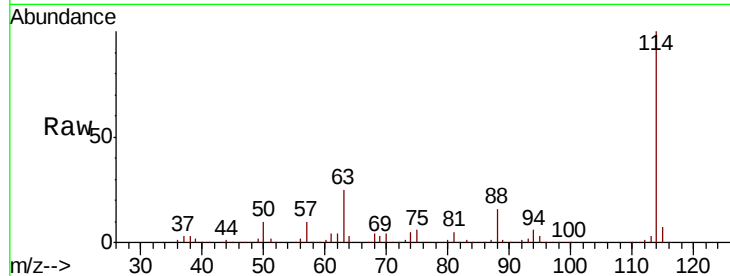




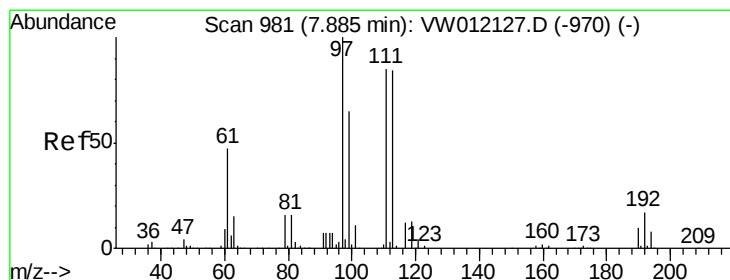
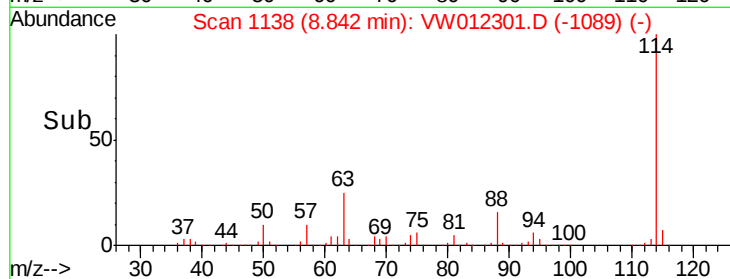
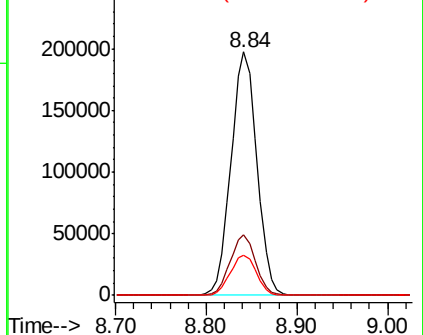
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012301.D
 Acq: 29 Aug 2019 14:20

Instrument :
 MSVOA_W
 ClientSampleId :
 S503-K2-9.5-10.0-082819

Tgt Ion:114 Resp: 390718
 Ion Ratio Lower Upper
 114 100
 63 24.9 0.0 48.6
 88 16.5 0.0 32.2

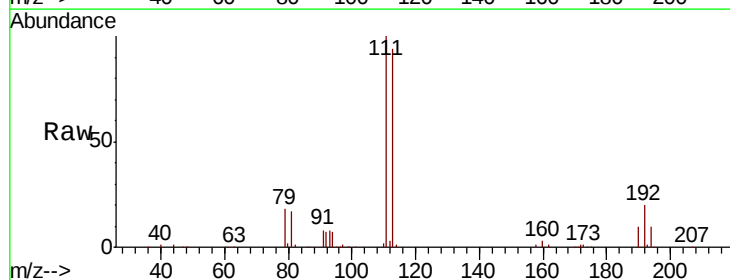


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

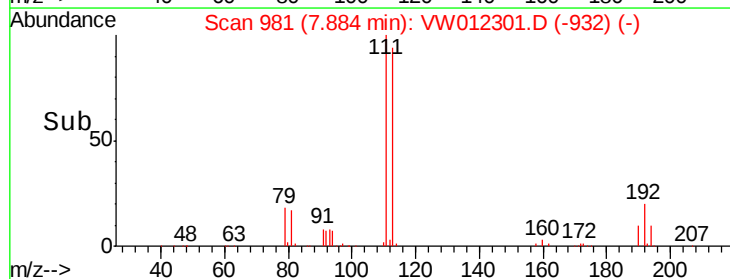
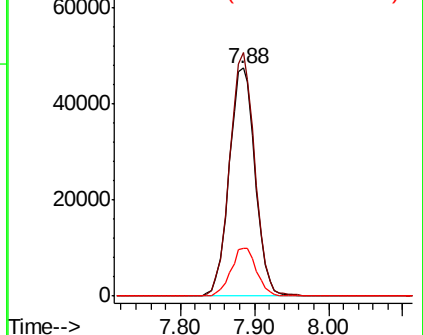


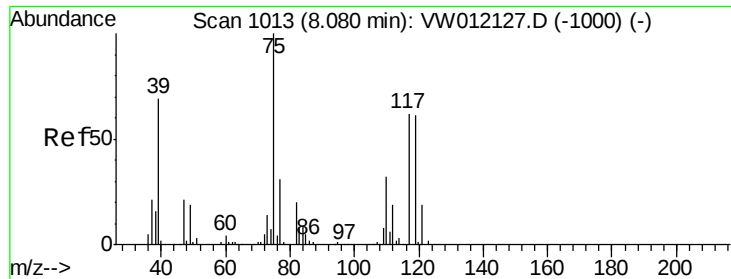
#35
 Dibromofluoromethane
 Concen: 49.453 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW012301.D
 Acq: 29 Aug 2019 14:20

Tgt Ion:113 Resp: 115334
 Ion Ratio Lower Upper
 113 100
 111 103.4 82.7 124.1
 192 20.7 16.2 24.2



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

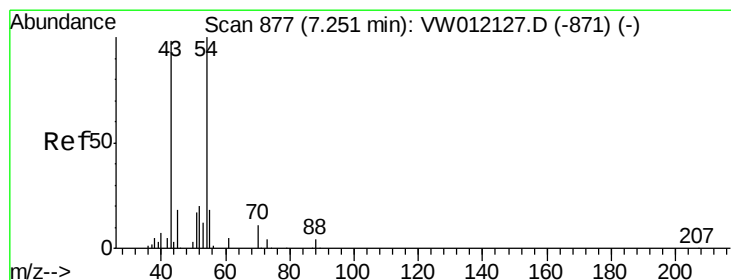
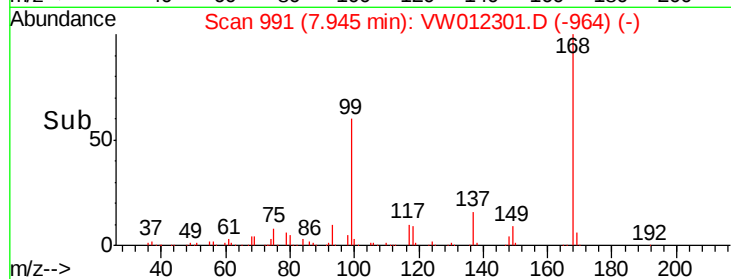
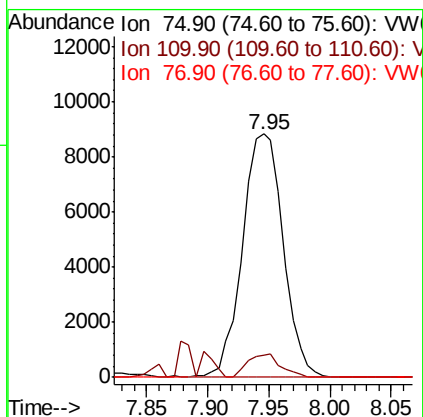
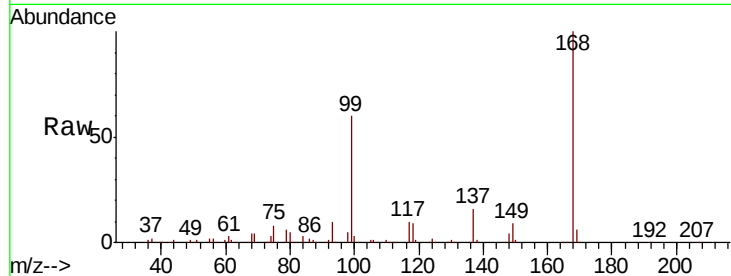




#36
 1,1-Dichloropropene
 Concen: 5.066 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012301.D
 Acq: 29 Aug 2019 14:20

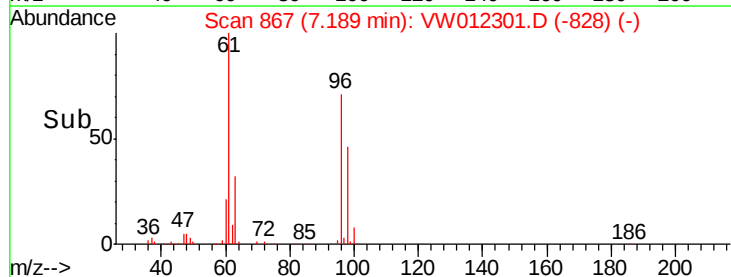
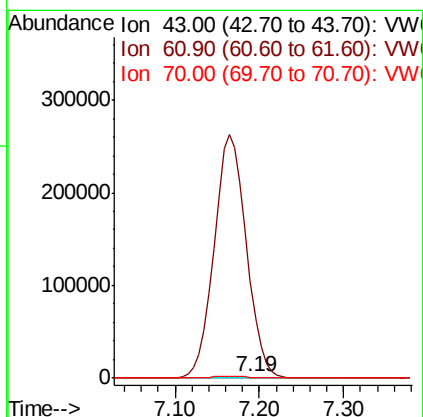
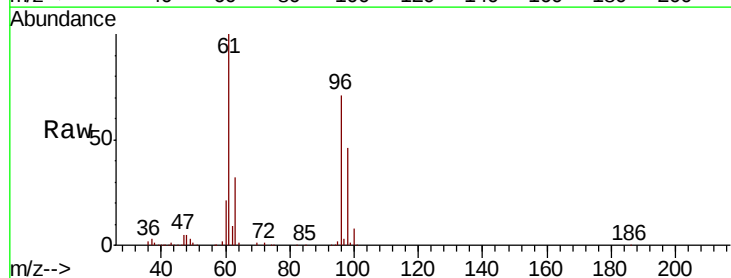
Instrument :
 MSVOA_W
 ClientSampleId :
 S503-K2-9.5-10.0-082819

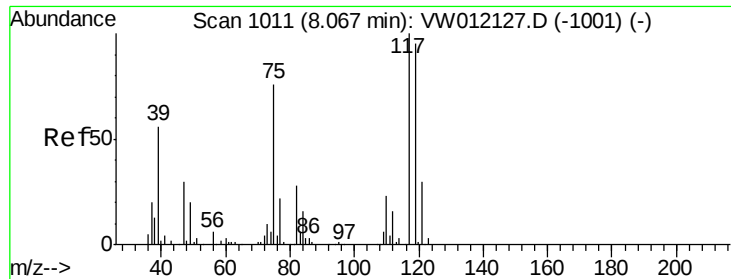
Tgt Ion: 75 Resp: 20454
 Ion Ratio Lower Upper
 75 100
 110 7.9 15.6 46.8#
 77 0.0 24.6 36.8#



#37
 Ethyl Acetate
 Concen: 1.436 ug/l
 RT: 7.19 min Scan# 867
 Delta R.T. -0.06 min
 Lab File: VW012301.D
 Acq: 29 Aug 2019 14:20

Tgt Ion: 43 Resp: 3178
 Ion Ratio Lower Upper
 43 100
 61 0.0 9.2 13.8#
 70 0.0 6.9 10.3#





#38

Carbon Tetrachloride

Concen: 6.803 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012301.D

Acq: 29 Aug 2019 14:20

Instrument :

MSVOA_W

ClientSampleId :

S503-K2-9.5-10.0-082819

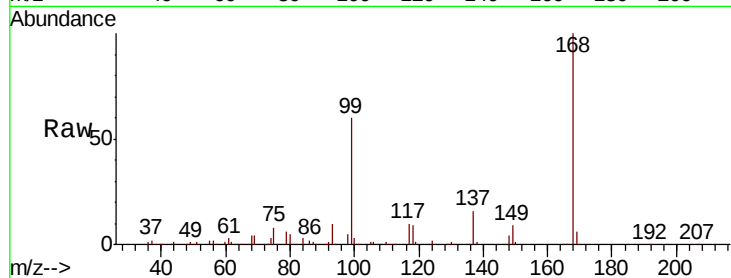
Tgt Ion:117 Resp: 23775

Ion Ratio Lower Upper

117 100

119 5.2 76.2 114.2#

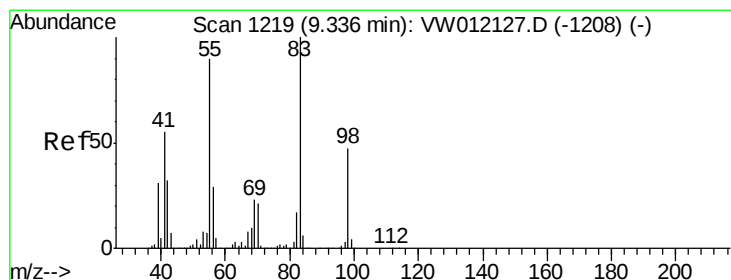
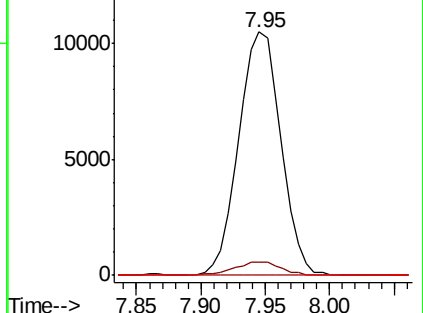
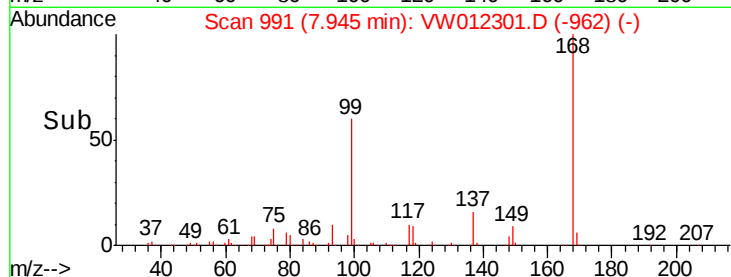
121 0.0 23.8 35.8#



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



#39

Methylcyclohexane

Concen: 1.692 ug/l

RT: 9.09 min Scan# 1178

Delta R.T. -0.25 min

Lab File: VW012301.D

Acq: 29 Aug 2019 14:20

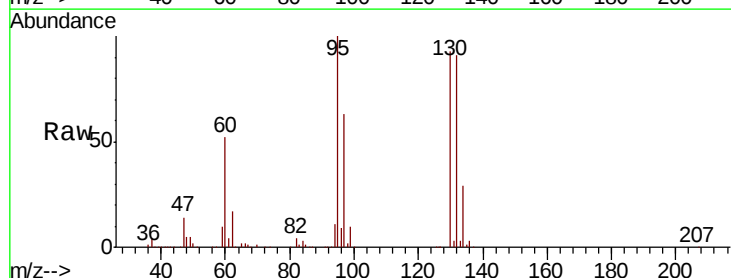
Tgt Ion: 83 Resp: 7674

Ion Ratio Lower Upper

83 100

55 0.0 71.8 107.8#

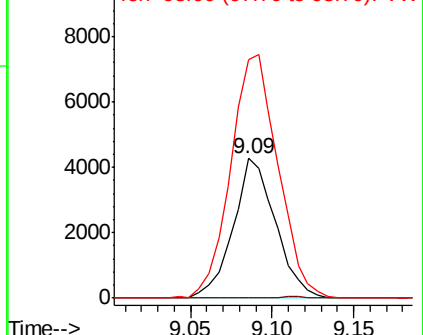
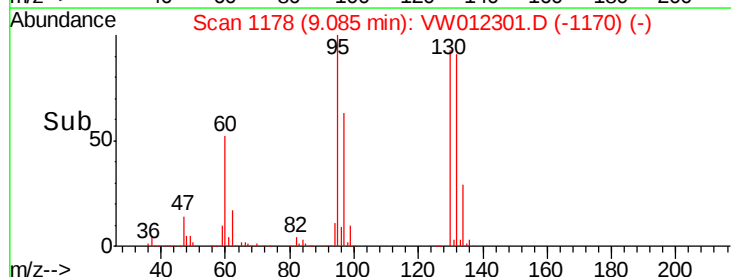
98 170.6 37.8 56.8#

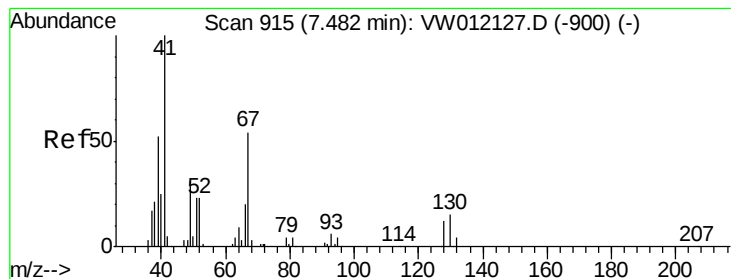


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#41

Methacrylonitrile

Concen: 2.699 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.06 min

Lab File: VW012301.D

Acq: 29 Aug 2019 14:20

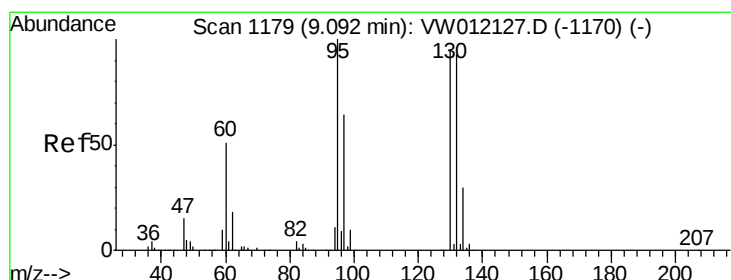
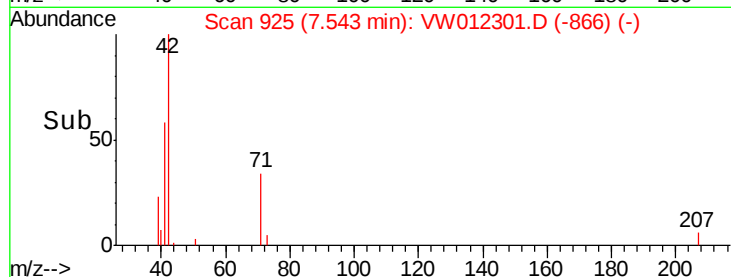
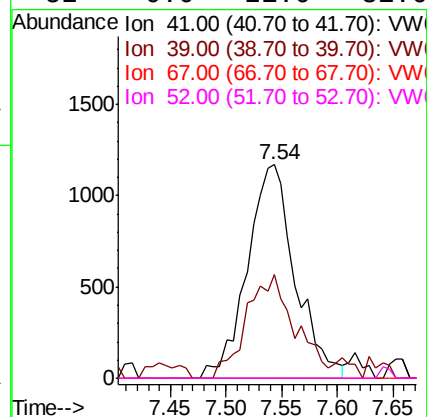
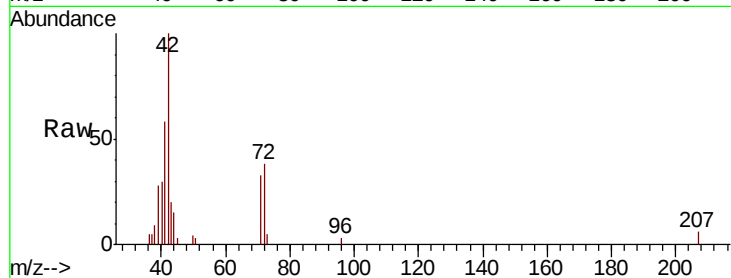
Instrument :

MSVOA_W

ClientSampleId :

S503-K2-9.5-10.0-082819

Tgt Ion:	41	Resp:	3510
Ion	Ratio	Lower	Upper
41	100		
39	48.9	45.8	68.8
67	0.0	46.2	69.4#
52	0.0	21.0	31.6#



#44

Trichloroethene

Concen: 216.533 ug/l

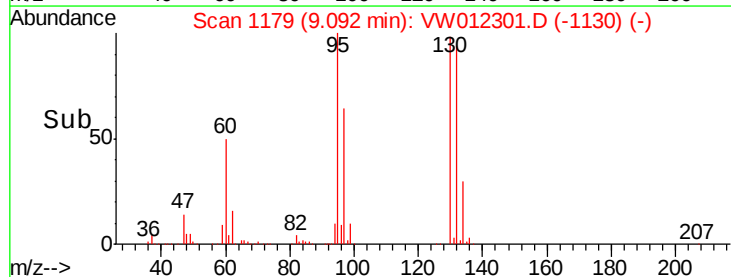
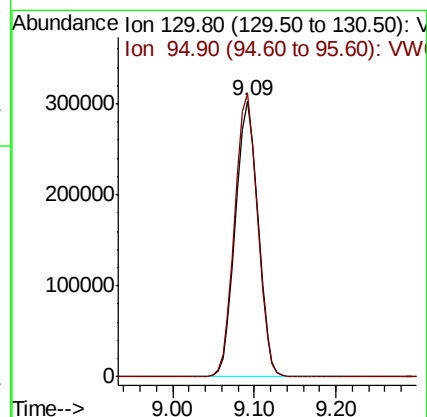
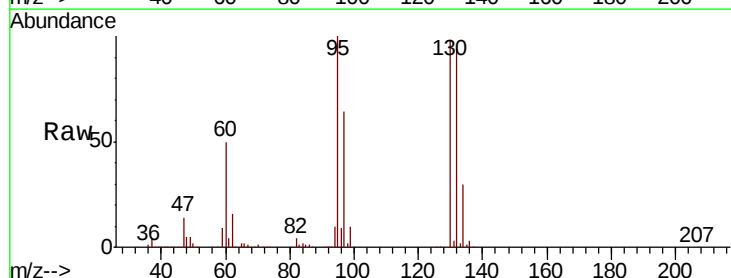
RT: 9.09 min Scan# 1179

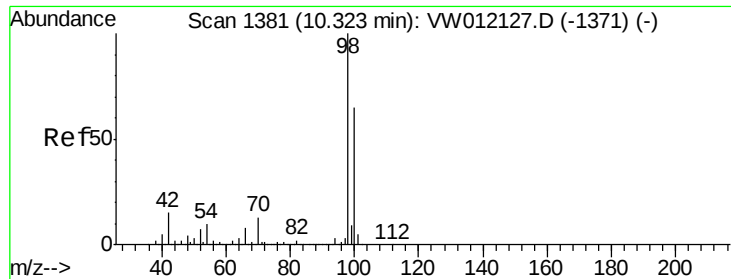
Delta R.T. -0.00 min

Lab File: VW012301.D

Acq: 29 Aug 2019 14:20

Tgt Ion:	130	Resp:	580337
Ion	Ratio	Lower	Upper
130	100		
95	102.4	0.0	210.6

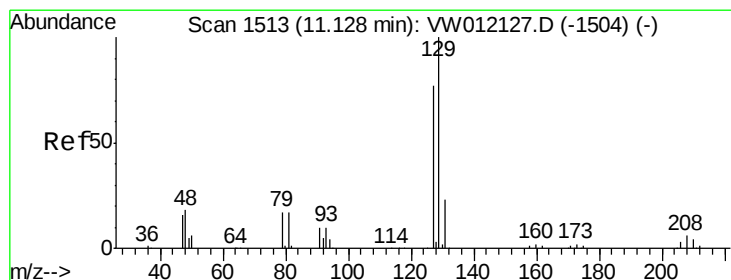
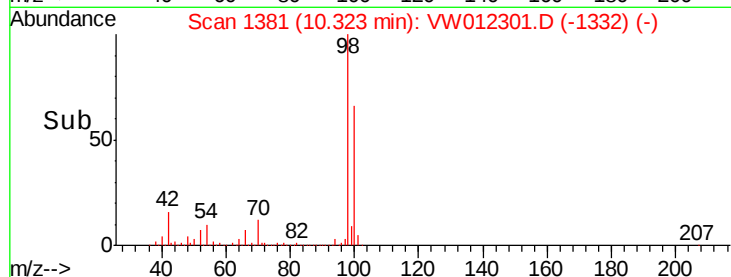
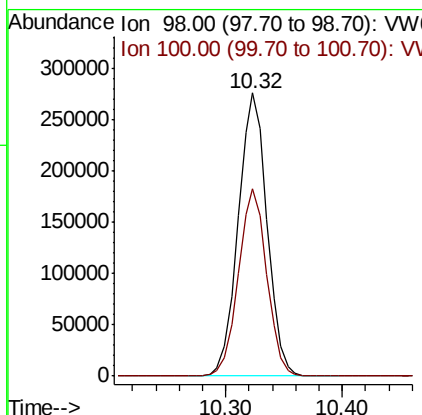
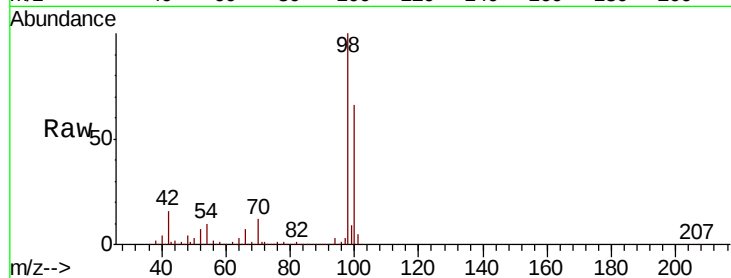




#50
Toluene-d8
Concen: 50.176 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW012301.D
Acq: 29 Aug 2019 14:20

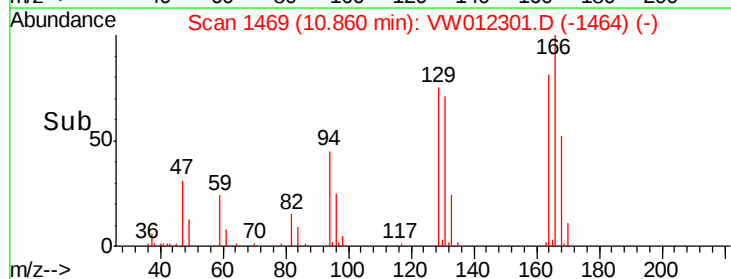
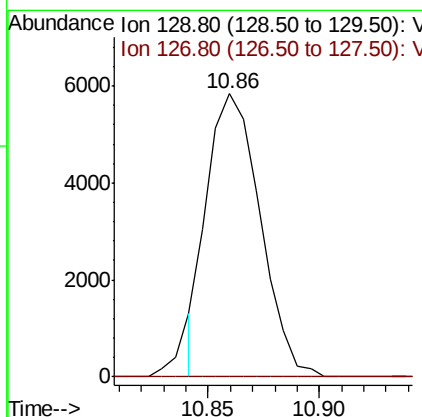
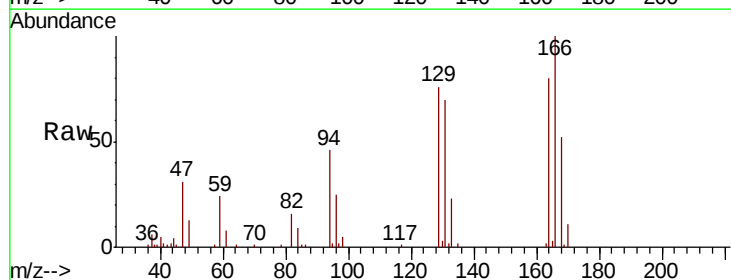
Instrument :
MSVOA_W
ClientSampleId :
S503-K2-9.5-10.0-082819

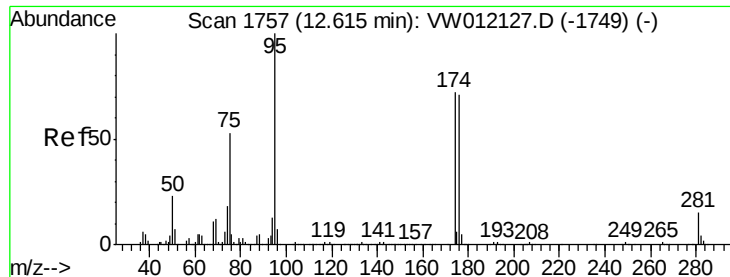
Tgt Ion: 98 Resp: 474483
Ion Ratio Lower Upper
98 100
100 65.3 52.4 78.6



#60
Dibromochloromethane
Concen: 4.662 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.27 min
Lab File: VW012301.D
Acq: 29 Aug 2019 14:20

Tgt Ion: 129 Resp: 9699
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#

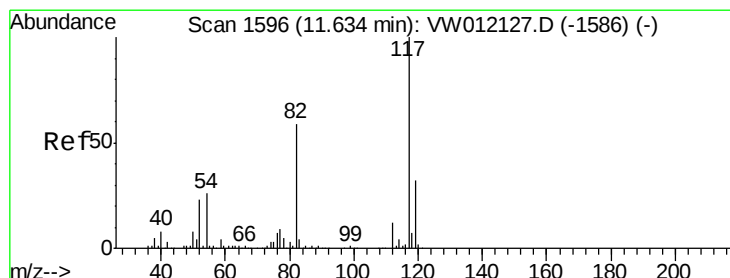
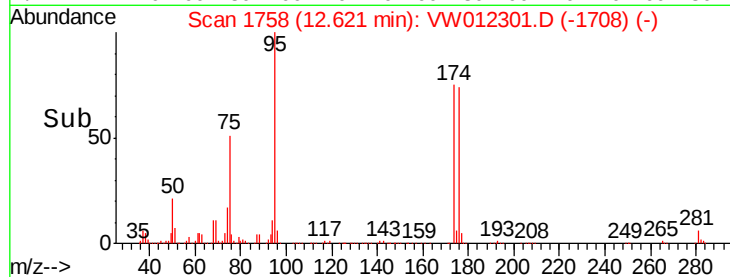
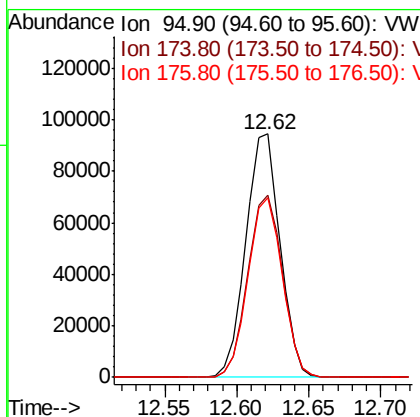
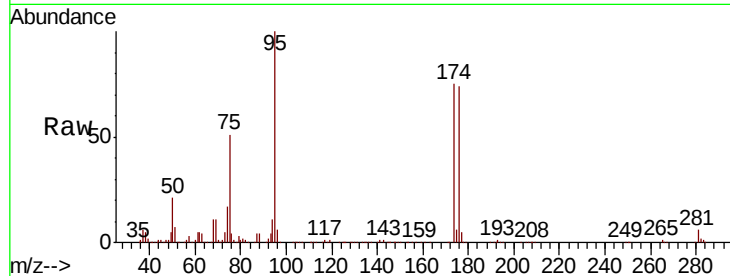




#62
4-Bromofluorobenzene
Concen: 46.570 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.01 min
Lab File: VW012301.D
Acq: 29 Aug 2019 14:20

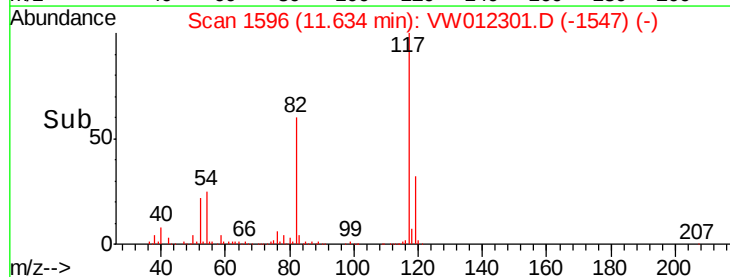
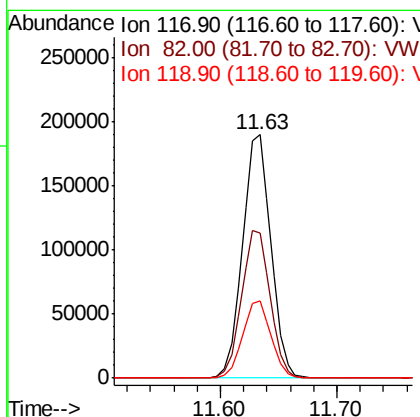
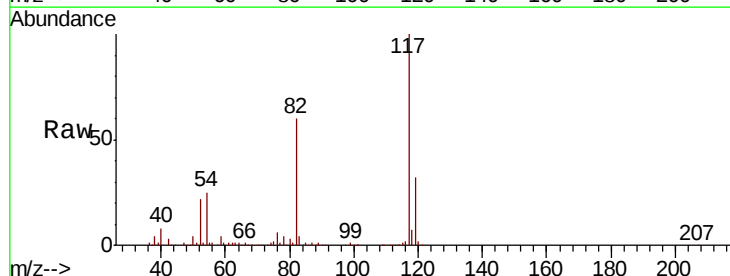
Instrument :
MSVOA_W
ClientSampleId :
S503-K2-9.5-10.0-082819

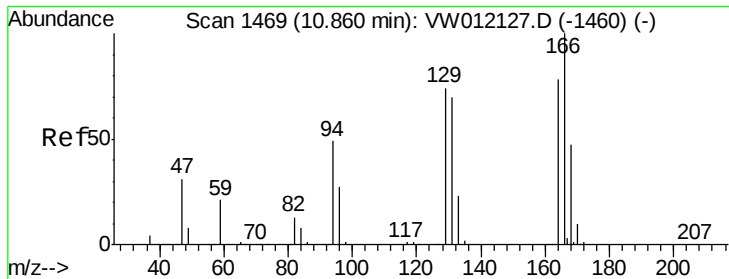
Tgt Ion: 95 Resp: 155237
Ion Ratio Lower Upper
95 100
174 76.0 0.0 150.8
176 74.1 0.0 148.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW012301.D
Acq: 29 Aug 2019 14:20

Tgt Ion: 117 Resp: 323398
Ion Ratio Lower Upper
117 100
82 59.8 47.4 71.2
119 31.6 25.4 38.2





#64

Tetrachloroethene

Concen: 5.209 ug/l

RT: 10.87 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VW012301.D

Acq: 29 Aug 2019 14:20

Instrument :

MSVOA_W

ClientSampleId :

S503-K2-9.5-10.0-082819

Tgt Ion:164 Resp: 10921

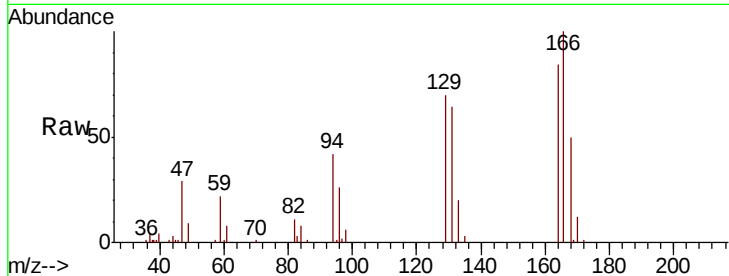
Ion Ratio Lower Upper

164 100

166 119.2 102.4 153.6

129 82.9 75.8 113.6

131 76.5 71.4 107.2

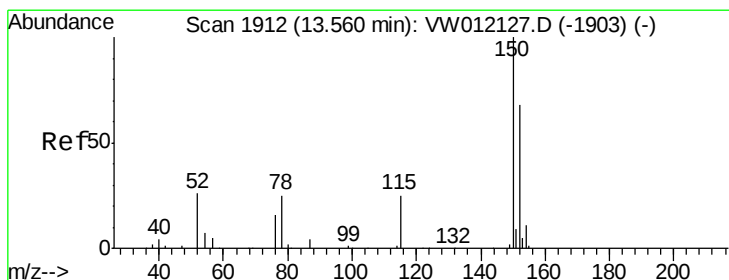
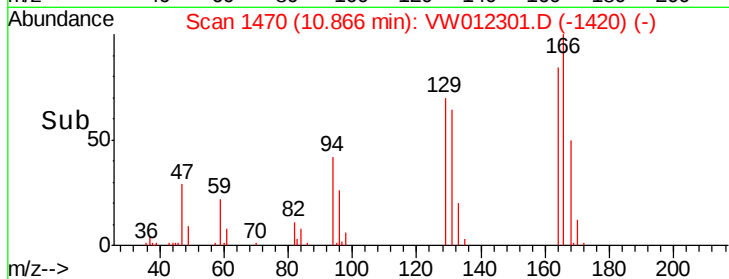
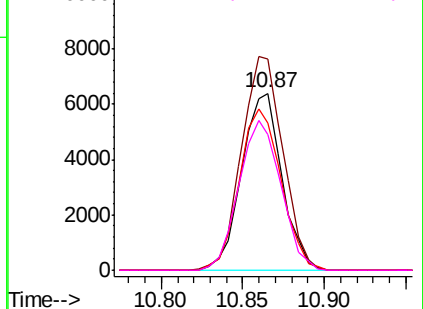


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW012301.D

Acq: 29 Aug 2019 14:20

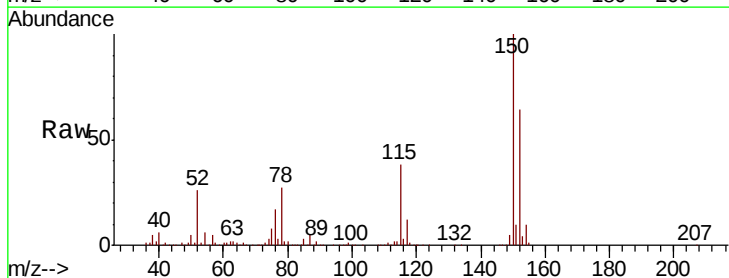
Tgt Ion:152 Resp: 135963

Ion Ratio Lower Upper

152 100

115 60.3 30.1 90.3

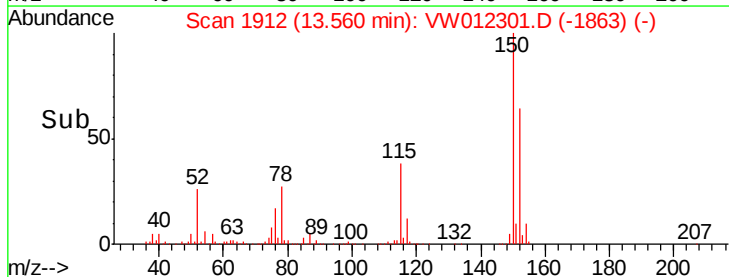
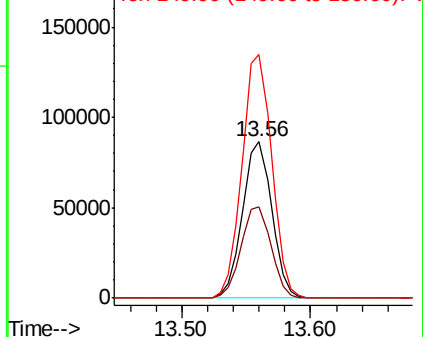
150 158.0 0.0 345.8

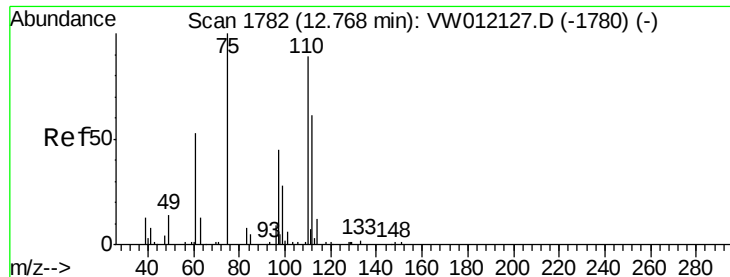


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 62.336 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012301.D

Acq: 29 Aug 2019 14:20

Instrument :

MSVOA_W

ClientSampleId :

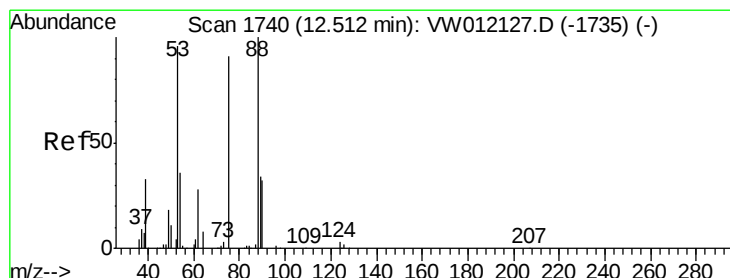
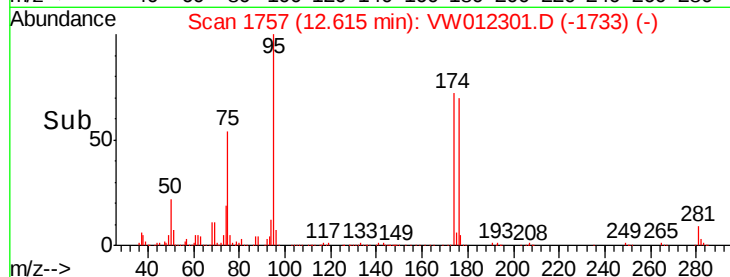
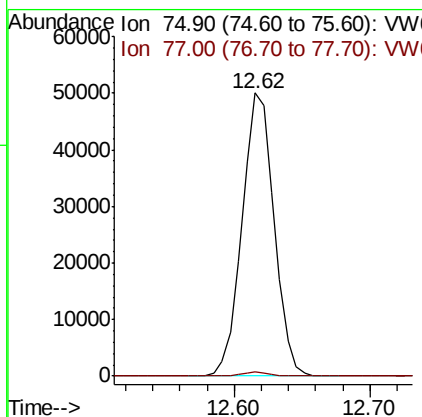
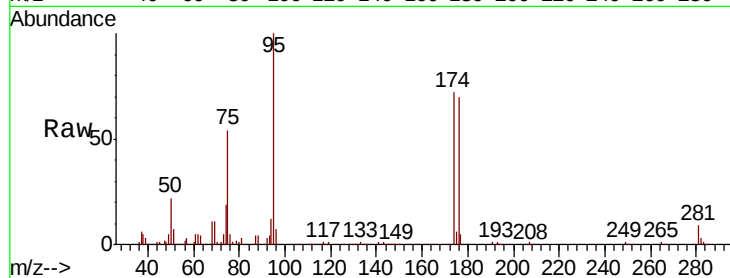
S503-K2-9.5-10.0-082819

Tgt Ion: 75 Resp: 82544

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 136.674 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012301.D

Acq: 29 Aug 2019 14:20

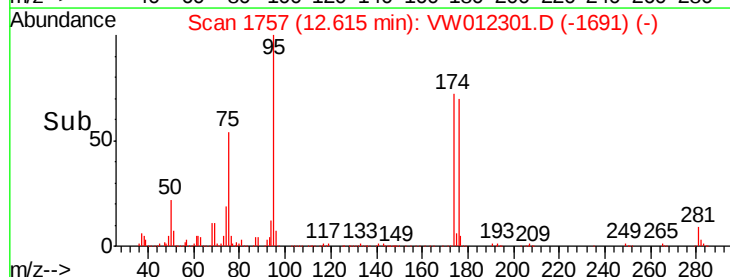
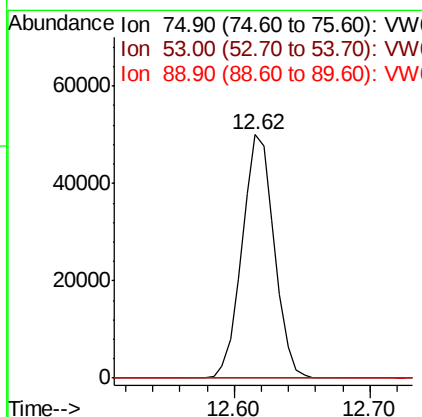
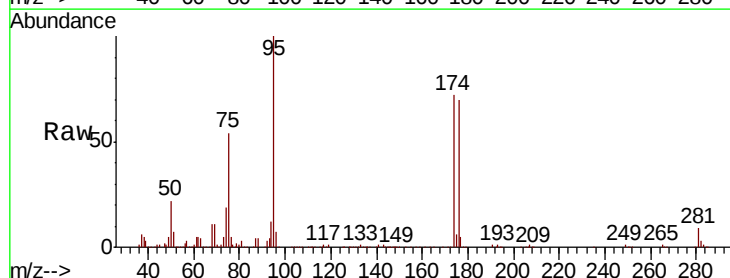
Tgt Ion: 75 Resp: 82544

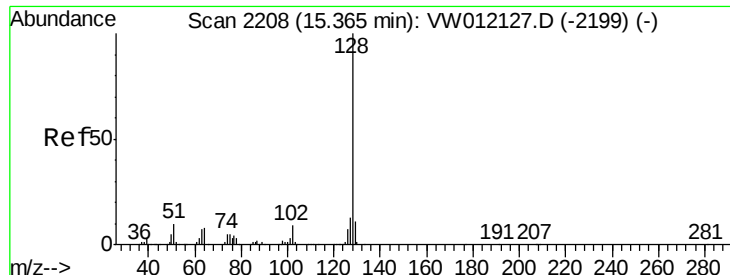
Ion Ratio Lower Upper

75 100

53 0.1 89.4 134.0#

89 0.0 34.5 51.7#

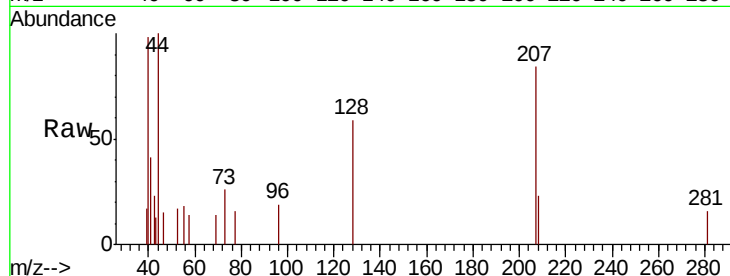




#95
Naphthalene
Concen: 4.362 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.01 min
Lab File: VW012301.D
Acq: 29 Aug 2019 14:20

Instrument :
MSVOA_W
ClientSampleId :
S503-K2-9.5-10.0-082819

Tgt Ion:128 Resp: 229
Ion Ratio Lower Upper
128 100
127 0.0 10.7 16.1#
129 0.0 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

