

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW083019\
 Data File : VW012351.D
 Acq On : 30 Aug 2019 15:42
 Operator : SY/VA
 Sample : K4620-16
 Misc : 6.47G/5ML/MSVOA W/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 S504-K2-9.5-10.0-082919

Quant Time: Aug 30 17:10:31 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	189476	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	306259	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	258866	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	99960	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	124773	55.40	ug/l	0.00
Spiked Amount			Recovery	=	110.80%	
35) Dibromofluoromethane	7.88	113	95654	52.33	ug/l	0.00
Spiked Amount			Recovery	=	104.66%	
50) Toluene-d8	10.32	98	376183	50.75	ug/l	0.00
Spiked Amount			Recovery	=	101.50%	
62) 4-Bromofluorobenzene	12.61	95	118627	45.40	ug/l	0.00
Spiked Amount			Recovery	=	90.80%	

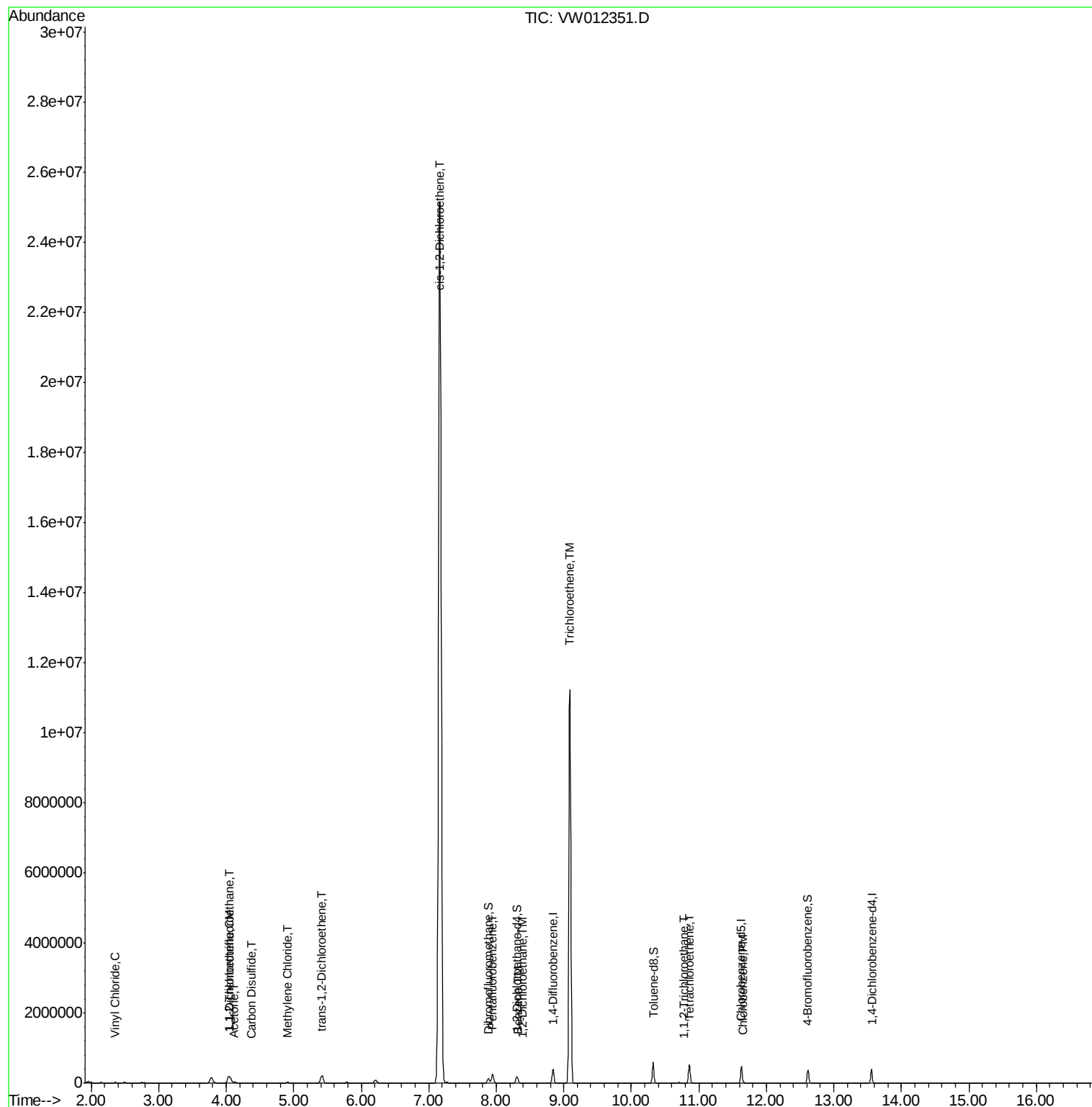
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.35	62	11707	5.292	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	4.06	101	71548	37.891	ug/l	98
12) 1,1-Dichloroethene	4.04	96	74809	39.362	ug/l	99
16) Acetone	4.12	43	41523	72.118	ug/l	99
17) Carbon Disulfide	4.37	76	7018	1.222	ug/l	96
20) Methylene Chloride	4.90	84	13669	6.280	ug/l	95
21) trans-1,2-Dichloroethene	5.41	96	119231	58.503	ug/l	99
27) cis-1,2-Dichloroethene	7.16	96	15000772	6889.116	ug/l	89
40) Benzene	8.32	78	29921	3.462	ug/l	97
42) 1,2-Dichloroethane	8.40	62	6676	2.465	ug/l	94
44) Trichloroethene	9.09	130	3833887	1824.975	ug/l	97
55) 1,1,2-Trichloroethane	10.79	97	1945	1.328	ug/l #	81
64) Tetrachloroethene	10.86	164	114701	68.343	ug/l	99
65) Chlorobenzene	11.66	112	12900	2.531	ug/l	99

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012351.D

Acq: 30 Aug 2019 15:42

Instrument :

MSVOA_W

ClientSampleId :

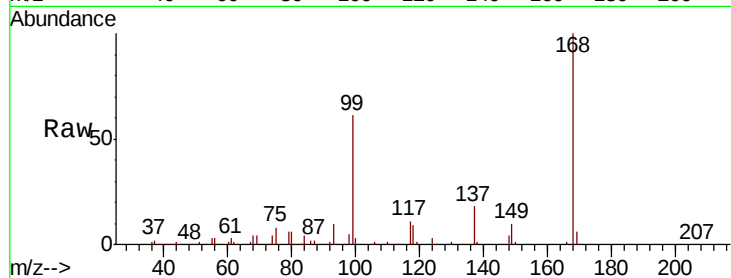
S504-K2-9.5-10.0-082919

Tot Ion:168 Resp: 189476

Ion Ratio Lower Upper

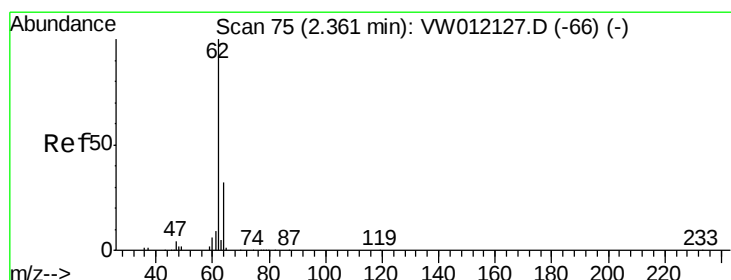
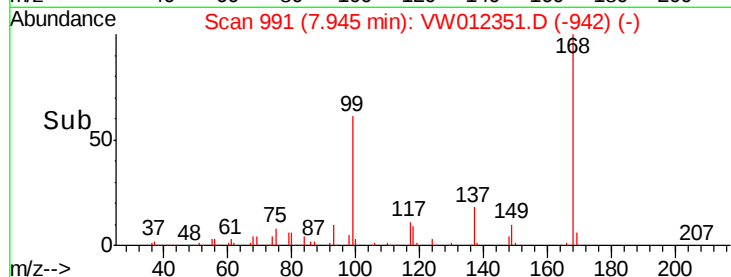
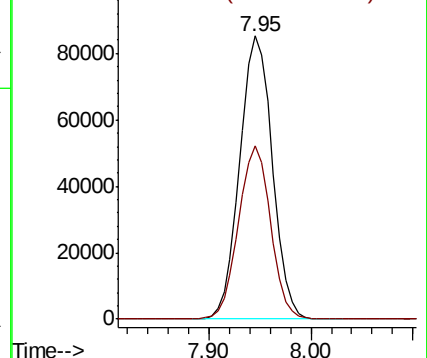
168 100

99 61.0 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW



#4

Vinyl Chloride

Concen: 5.292 ug/l

RT: 2.35 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW012351.D

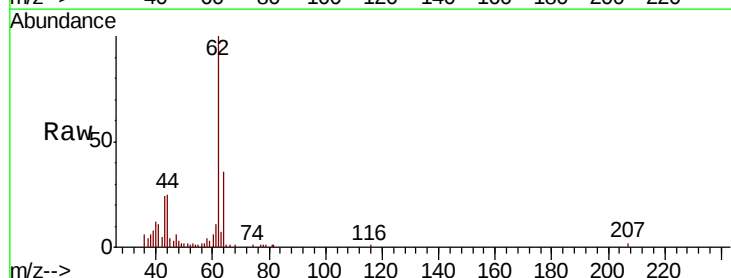
Acq: 30 Aug 2019 15:42

Tgt Ion: 62 Resp: 11707

Ion Ratio Lower Upper

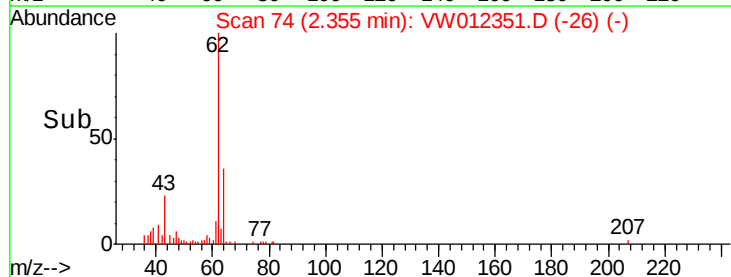
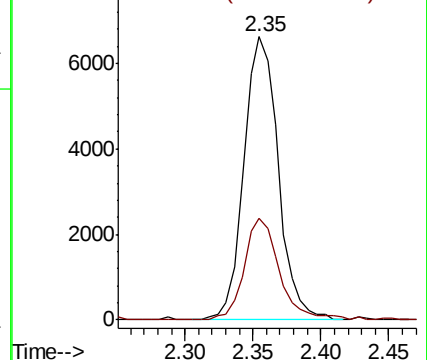
62 100

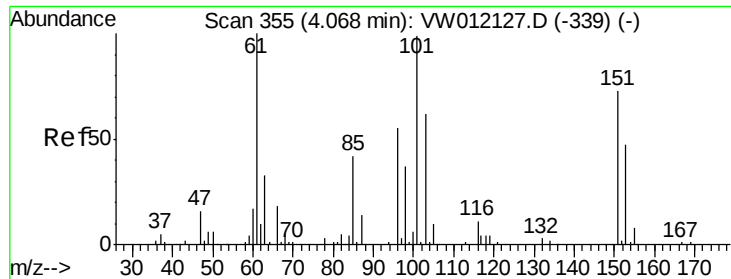
64 36.0 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW





#9

1,1,2-Trichlorotrifluoroethane

Concen: 37.891 ug/l

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW012351.D

Acq: 30 Aug 2019 15:42

Instrument :

MSVOA_W

ClientSampleId :

S504-K2-9.5-10.0-082919

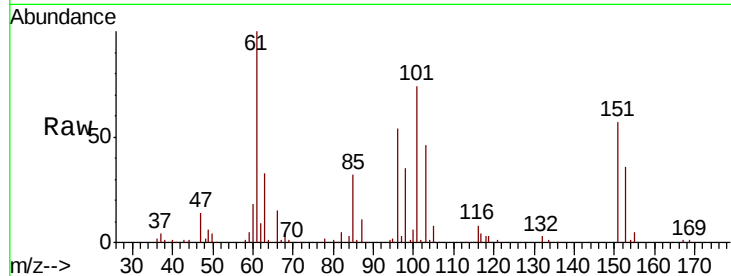
Tot Ion:101 Resp: 71548

Ion Ratio Lower Upper

101 100

85 45.2 35.8 53.6

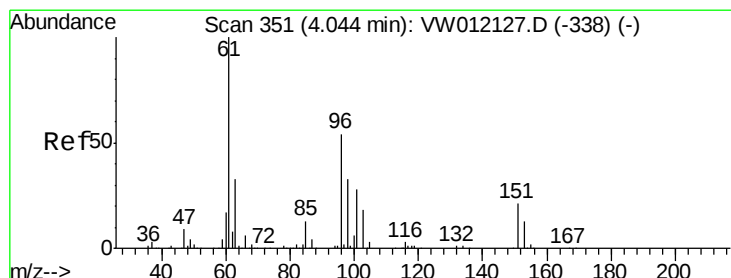
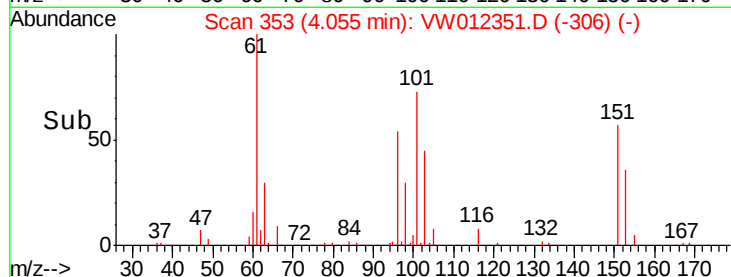
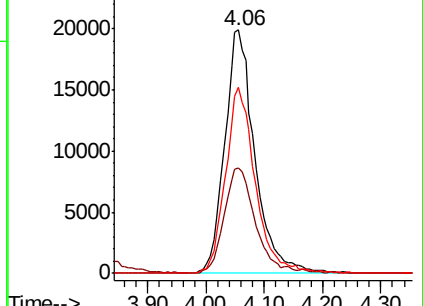
151 75.8 58.6 87.8



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



#12

1,1-Dichloroethene

Concen: 39.362 ug/l

RT: 4.04 min Scan# 350

Delta R.T. -0.01 min

Lab File: VW012351.D

Acq: 30 Aug 2019 15:42

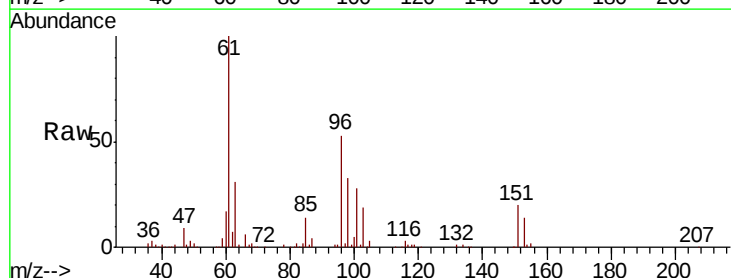
Tgt Ion: 96 Resp: 74809

Ion Ratio Lower Upper

96 100

61 187.5 149.1 223.7

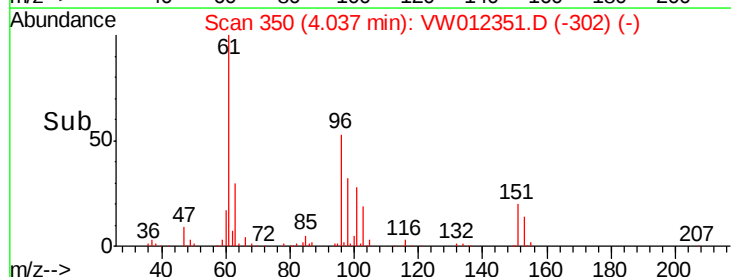
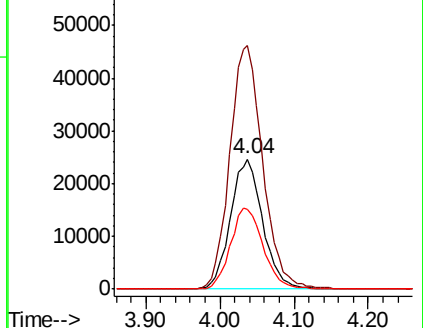
98 61.6 49.4 74.2

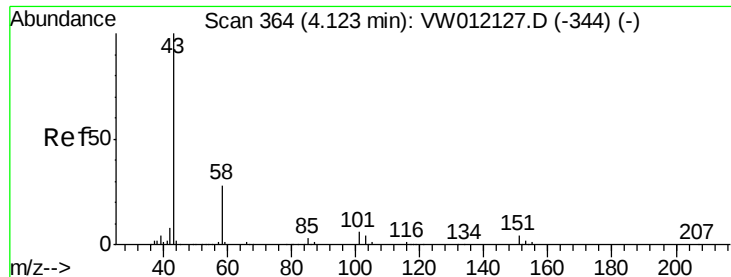


Abundance Ion 95.90 (95.60 to 96.60): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 97.90 (97.60 to 98.60): VW





#16

Acetone

Concen: 72.118 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.00 min

Lab File: VW012351.D

Acq: 30 Aug 2019 15:42

Instrument :

MSVOA_W

ClientSampleId :

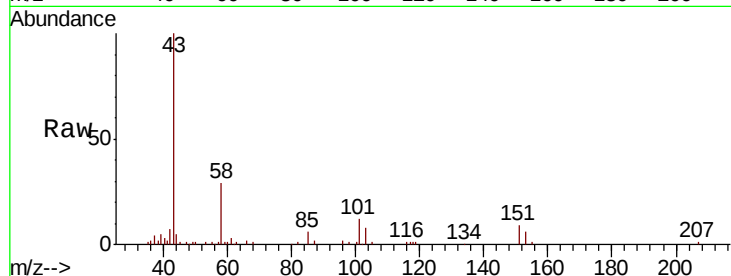
S504-K2-9.5-10.0-082919

Tot Ion: 43 Resp: 41523

Ion Ratio Lower Upper

43 100

58 28.5 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

15000

10000

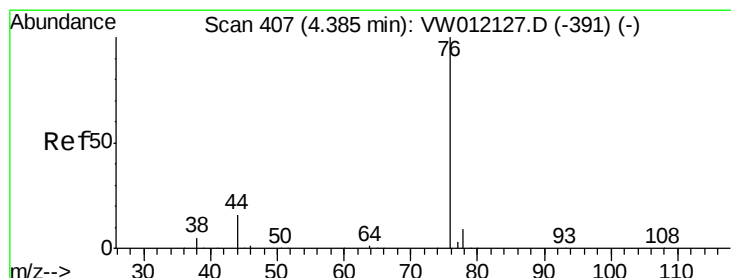
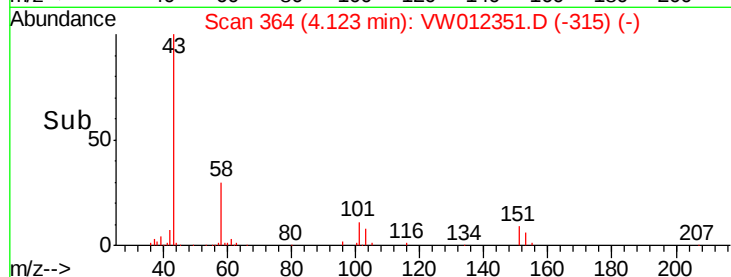
5000

0

Time-->

3.90 4.00 4.10 4.20 4.30

4.12



#17

Carbon Disulfide

Concen: 1.222 ug/l

RT: 4.37 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW012351.D

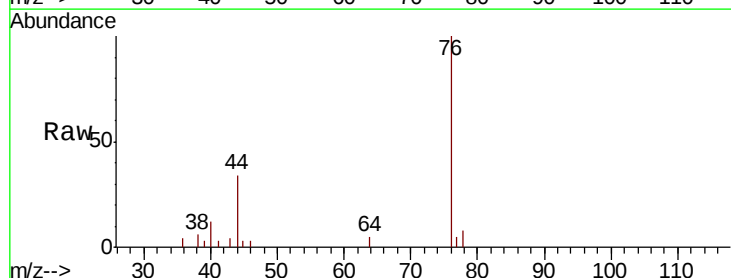
Acq: 30 Aug 2019 15:42

Tgt Ion: 76 Resp: 7018

Ion Ratio Lower Upper

76 100

78 7.7 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW

2500

2000

1500

1000

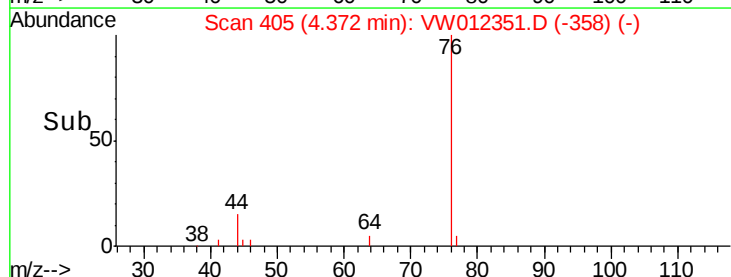
500

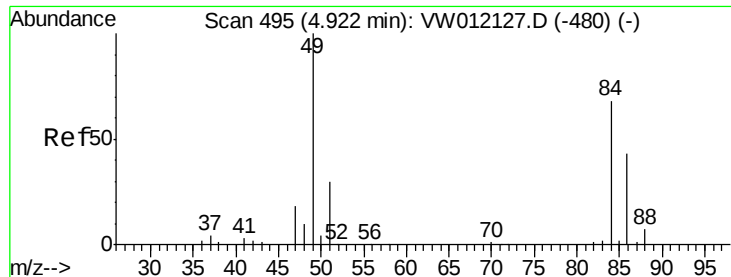
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Time-->

4.30 4.40 4.50

4.37

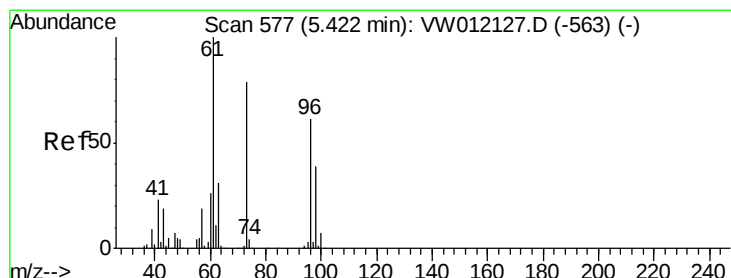
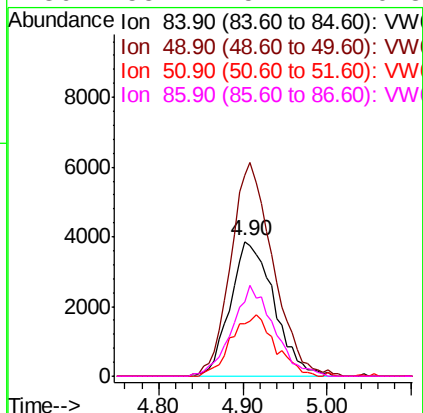
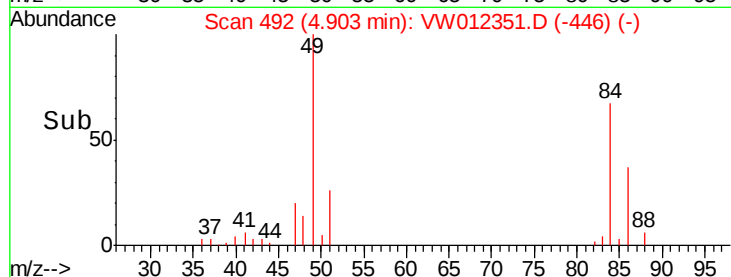
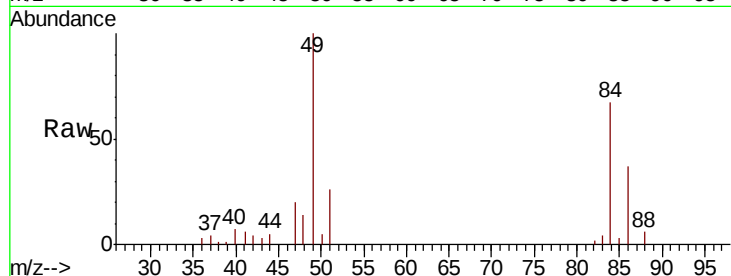




#20
Methylene Chloride
Concen: 6.280 ug/l
RT: 4.90 min Scan# 492
Delta R.T. -0.02 min
Lab File: VW012351.D
Acq: 30 Aug 2019 15:42

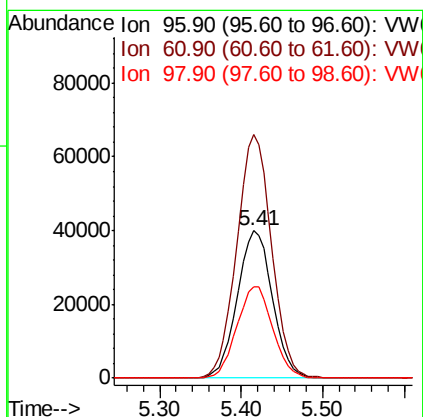
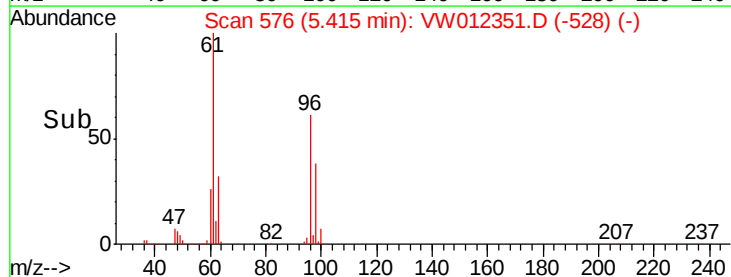
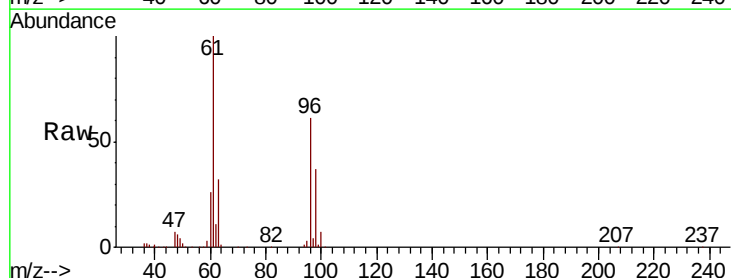
Instrument :
MSVOA_W
ClientSampleId :
S504-K2-9.5-10.0-082919

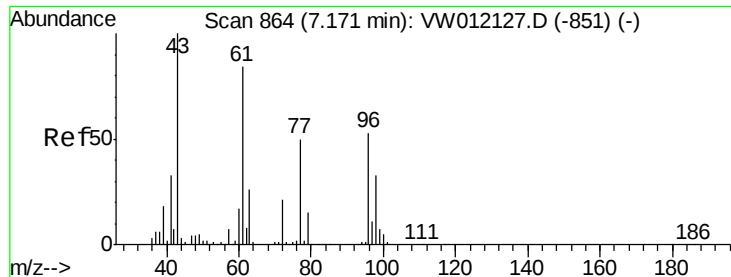
Tot Ion:	84	Resp:	13669
Ion	Ratio	Lower	Upper
84	100		
49	149.1	117.8	176.8
51	39.2	35.6	53.4
86	55.2	51.2	76.8



#21
trans-1,2-Dichloroethene
Concen: 58.503 ug/l
RT: 5.41 min Scan# 576
Delta R.T. -0.01 min
Lab File: VW012351.D
Acq: 30 Aug 2019 15:42

Tgt Ion:	96	Resp:	119231
Ion	Ratio	Lower	Upper
96	100		
61	165.0	131.4	197.0
98	61.9	51.4	77.0



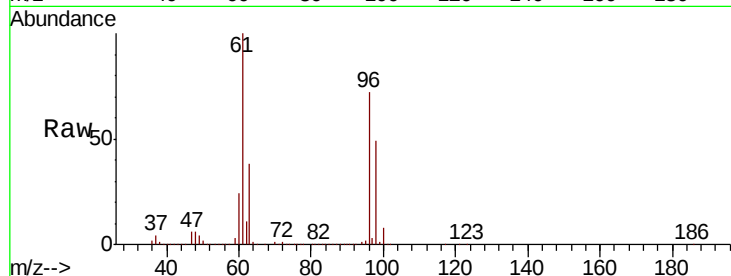


#27

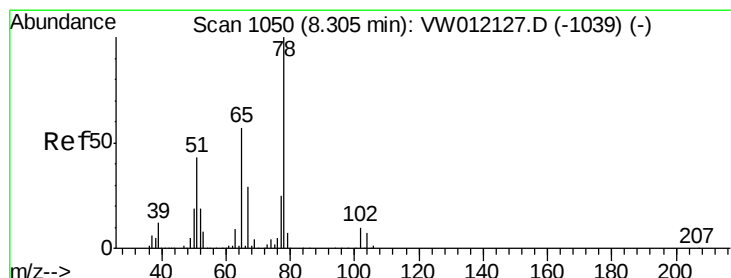
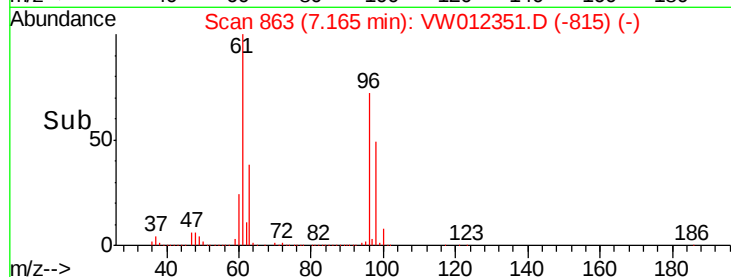
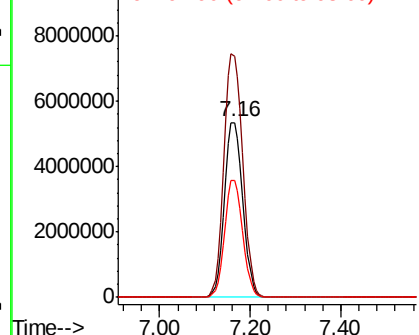
cis-1,2-Dichloroethene
 Concen: 6889.116 ug/l
 RT: 7.16 min Scan# 863
 Delta R.T. -0.01 min
 Lab File: VW012351.D
 Acq: 30 Aug 2019 15:42

Instrument :
 MSVOA_W
 ClientSampleId :
 S504-K2-9.5-10.0-082919

Tot Ion: 96 Resp:15000772
 Ion Ratio Lower Upper
 96 100
 61 143.7 0.0 326.6
 98 65.9 0.0 127.4



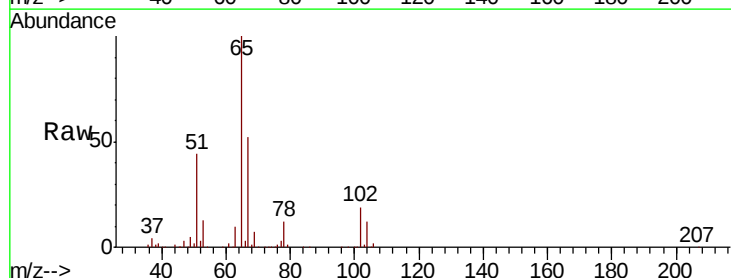
Abundance Ion 95.90 (95.60 to 96.60): VW
 1e+07 Ion 60.90 (60.60 to 61.60): VW
 Ion 97.90 (97.60 to 98.60): VW



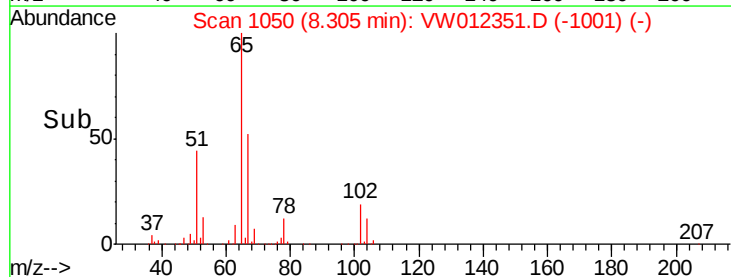
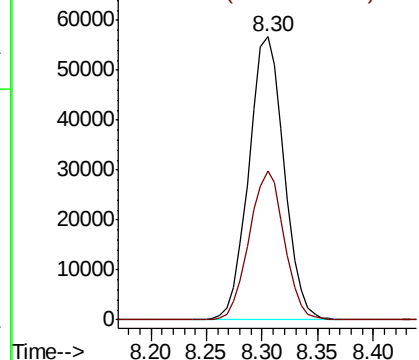
#33

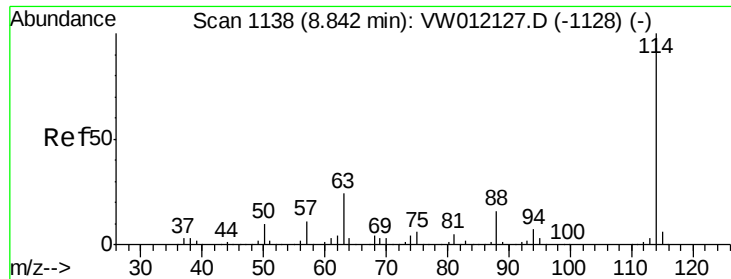
1,2-Dichloroethane-d4
 Concen: 55.395 ug/l
 RT: 8.30 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW012351.D
 Acq: 30 Aug 2019 15:42

Tgt Ion: 65 Resp: 124773
 Ion Ratio Lower Upper
 65 100
 67 52.5 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VW
 Ion 66.90 (66.60 to 67.60): VW

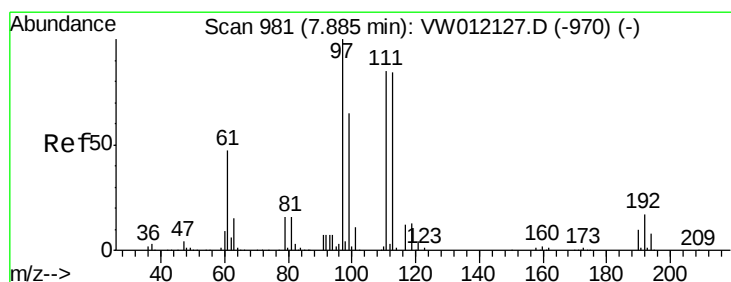
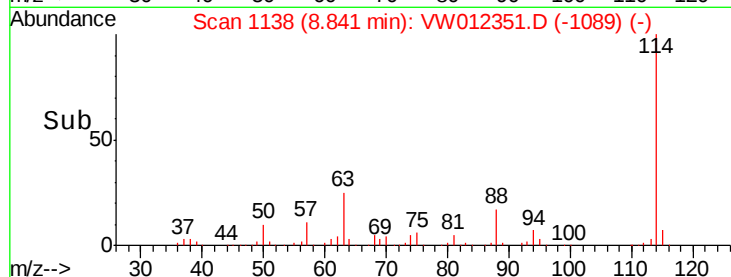
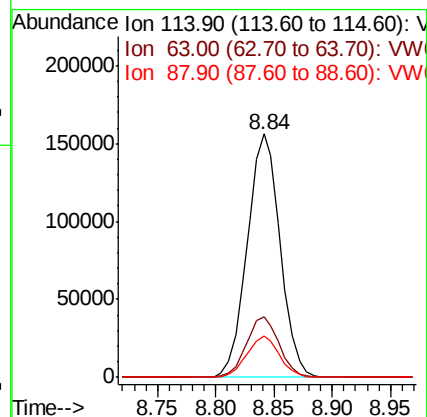
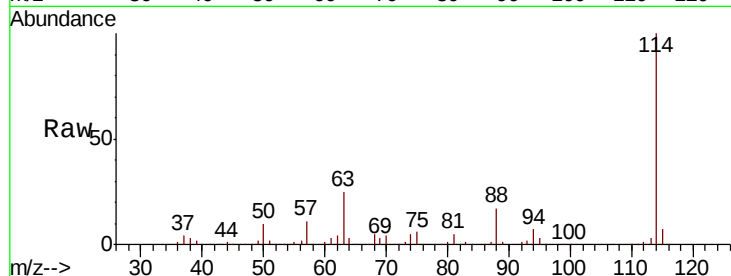




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012351.D
 Acq: 30 Aug 2019 15:42

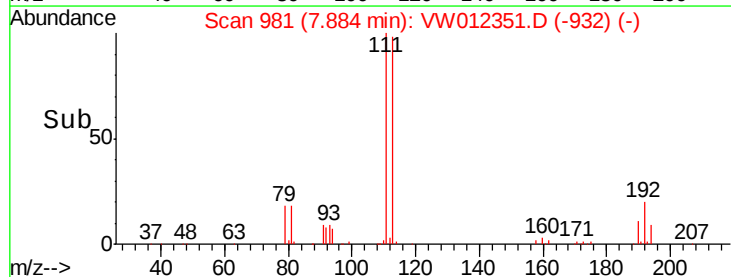
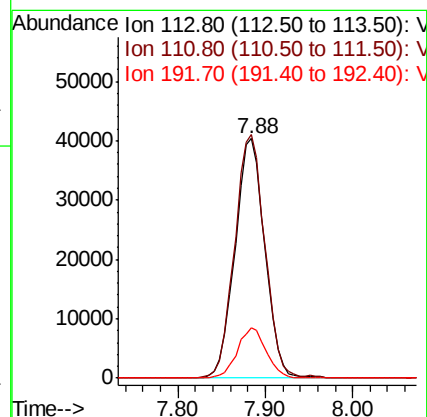
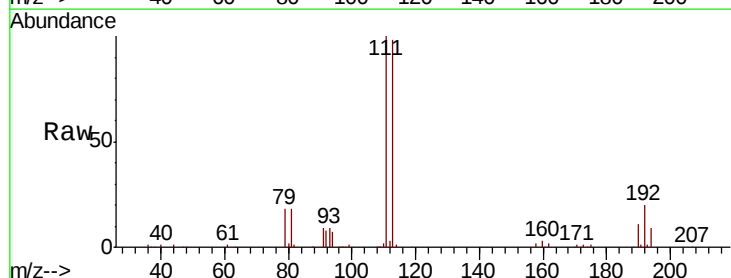
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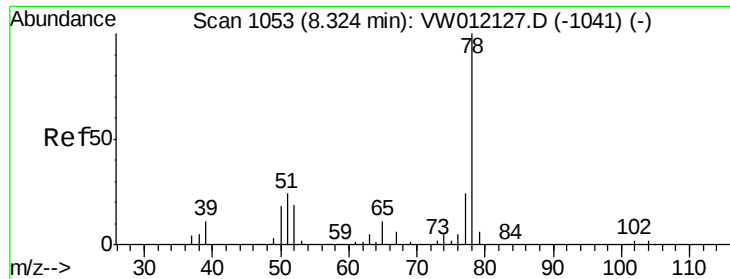
Tot Ion:	114	Resp:	306259
Ion	Ratio	Lower	Upper
114	100		
63	24.7	0.0	48.6
88	17.0	0.0	32.2



#35
 Dibromofluoromethane
 Concen: 52.325 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW012351.D
 Acq: 30 Aug 2019 15:42

Tgt Ion:	113	Resp:	95654
Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.7	124.1
192	20.2	16.2	24.2





#40

Benzene

Concen: 3.462 ug/l

RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VW012351.D

Acq: 30 Aug 2019 15:42

Instrument :

MSVOA_W

ClientSampleId :

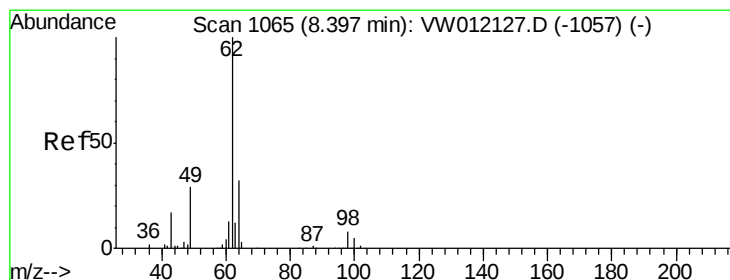
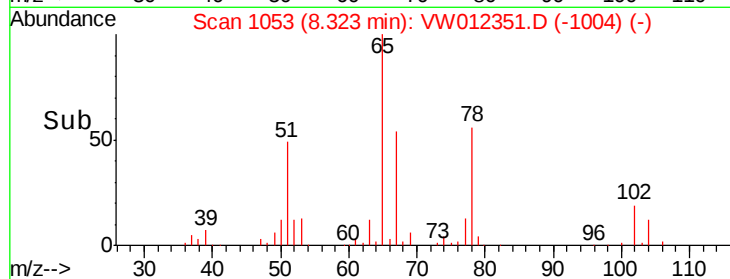
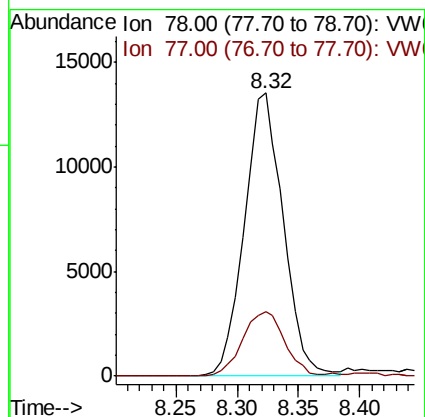
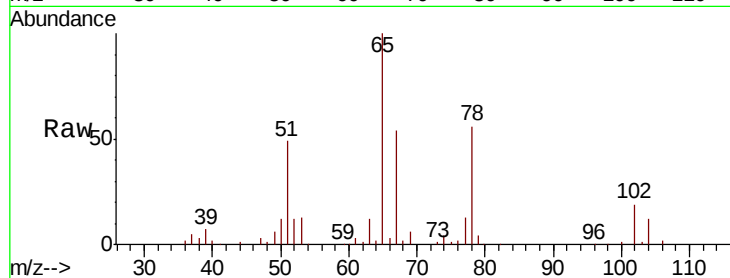
S504-K2-9.5-10.0-082919

Tot Ion: 78 Resp: 29921

Ion Ratio Lower Upper

78 100

77 22.9 19.5 29.3



#42

1,2-Dichloroethane

Concen: 2.465 ug/l

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW012351.D

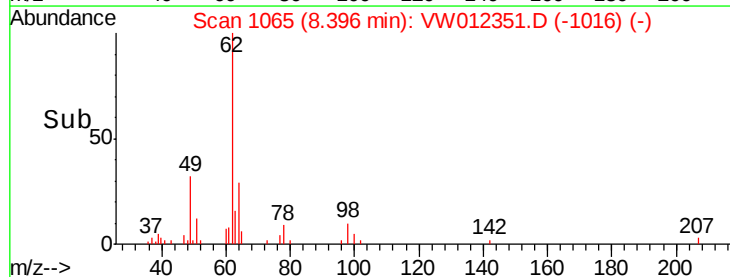
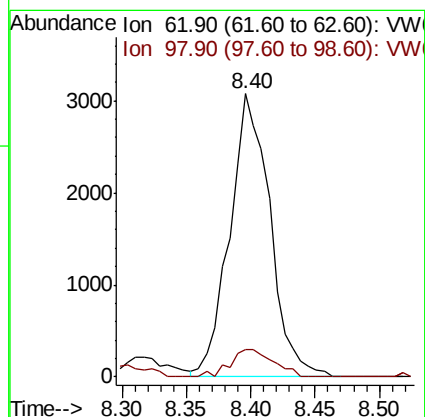
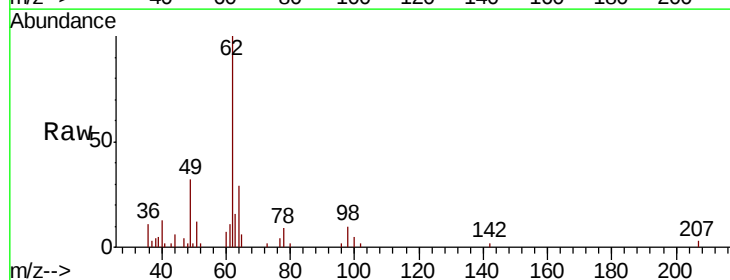
Acq: 30 Aug 2019 15:42

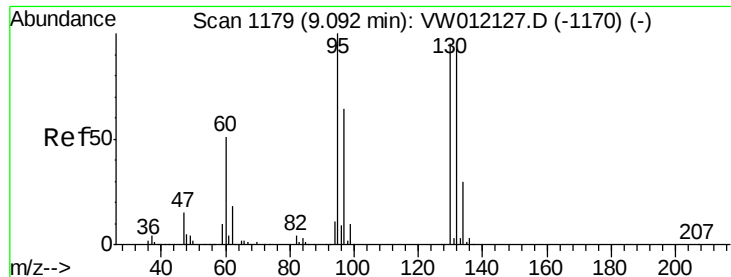
Tgt Ion: 62 Resp: 6676

Ion Ratio Lower Upper

62 100

98 10.6 0.0 16.6





#44

Trichloroethene

Concen: 1824.975 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW012351.D

Acq: 30 Aug 2019 15:42

Instrument :

MSVOA_W

ClientSampleId :

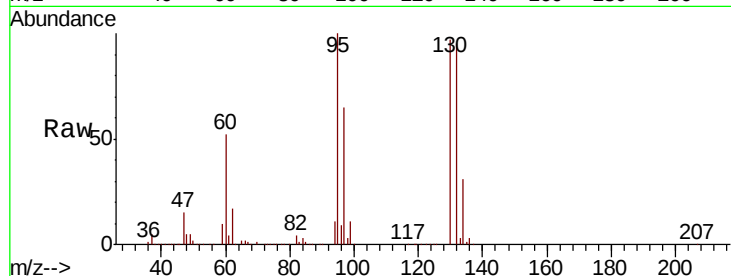
S504-K2-9.5-10.0-082919

Tot Ion:130 Resp: 3833887

Ion Ratio Lower Upper

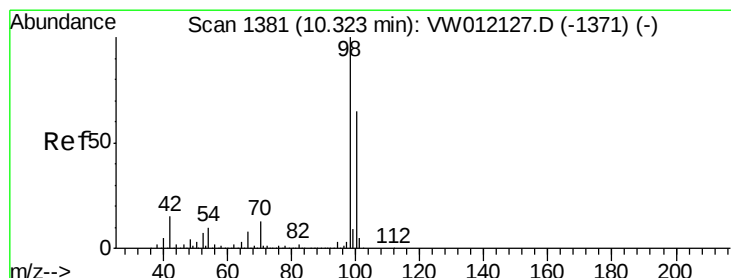
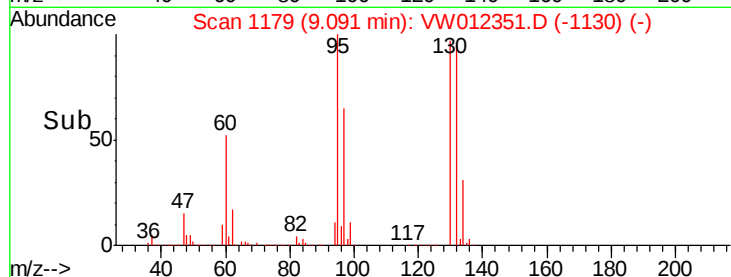
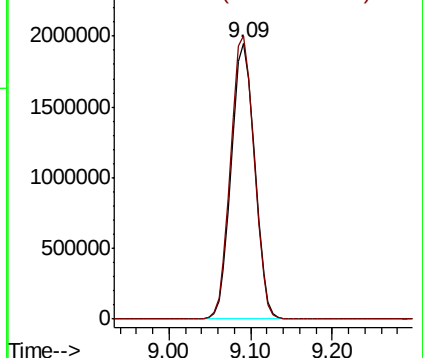
130 100

95 102.7 0.0 210.6



Abundance Ion 129.80 (129.50 to 130.50): VW

Ion 94.90 (94.60 to 95.60): VW



#50

Toluene-d8

Concen: 50.751 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012351.D

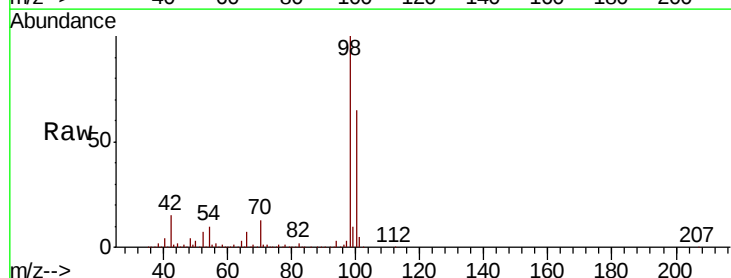
Acq: 30 Aug 2019 15:42

Tgt Ion: 98 Resp: 376183

Ion Ratio Lower Upper

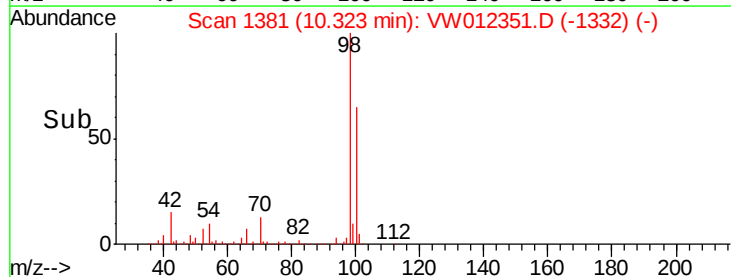
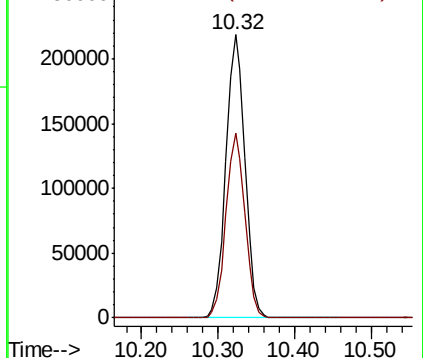
98 100

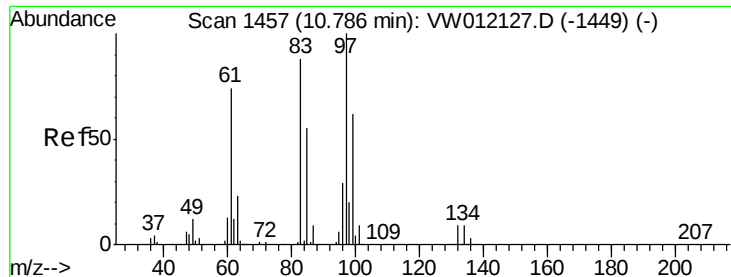
100 64.7 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#55

1,1,2-Trichloroethane

Concen: 1.328 ug/l

RT: 10.79 min Scan# 1458

Delta R.T. 0.01 min

Lab File: VW012351.D

Acq: 30 Aug 2019 15:42

Instrument :

MSVOA_W

ClientSampleId :

S504-K2-9.5-10.0-082919

Tot Ion: 97 Resp: 1945

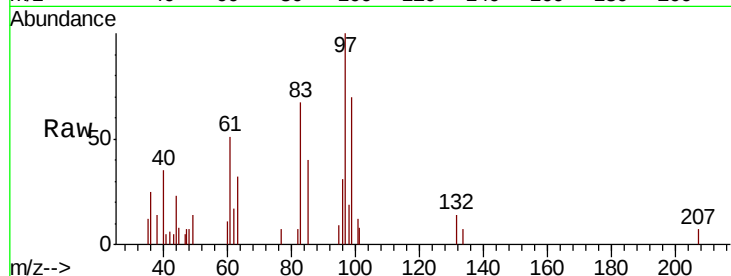
Ion Ratio Lower Upper

97 100

83 67.4 70.8 106.2#

85 39.6 43.8 65.8#

99 70.5 49.8 74.6



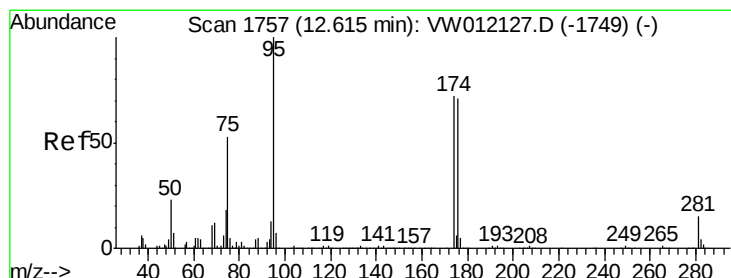
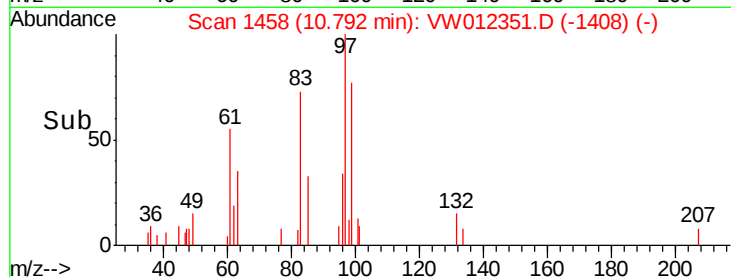
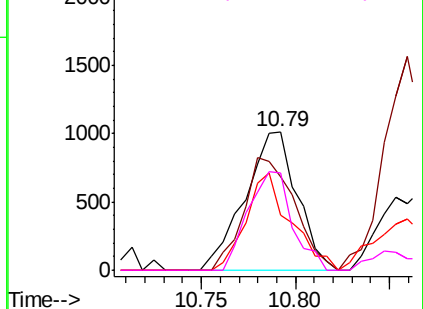
Abundance

Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



#62

4-Bromofluorobenzene

Concen: 45.402 ug/l

RT: 12.61 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012351.D

Acq: 30 Aug 2019 15:42

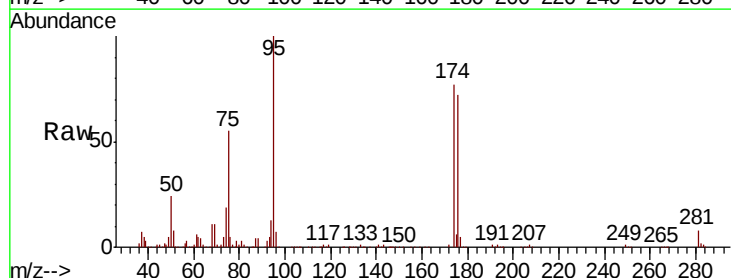
Tgt Ion: 95 Resp: 118627

Ion Ratio Lower Upper

95 100

174 78.3 0.0 150.8

176 73.7 0.0 148.6

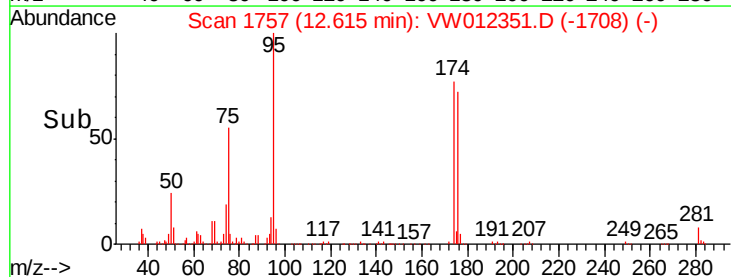
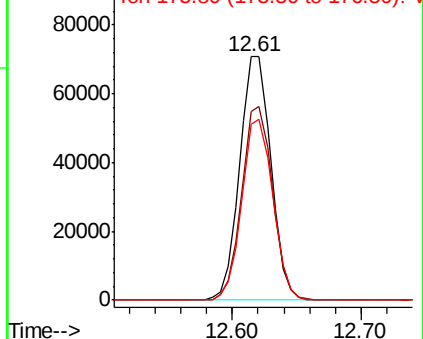


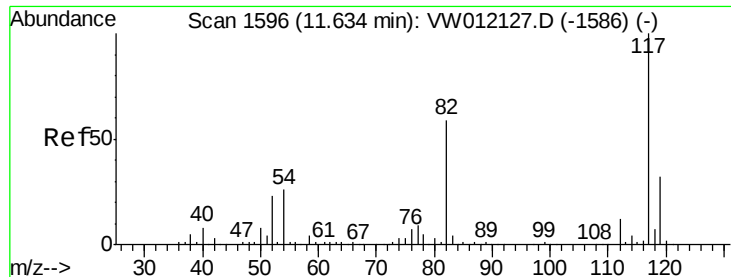
Abundance

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

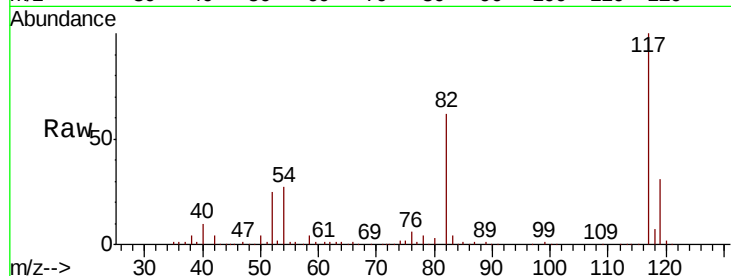




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW012351.D
Acq: 30 Aug 2019 15:42

Instrument :
MSVOA_W
ClientSampleId :
S504-K2-9.5-10.0-082919

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.7	47.4	71.2
119	30.6	25.4	38.2

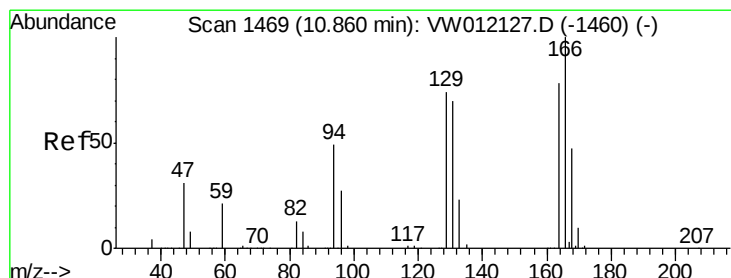
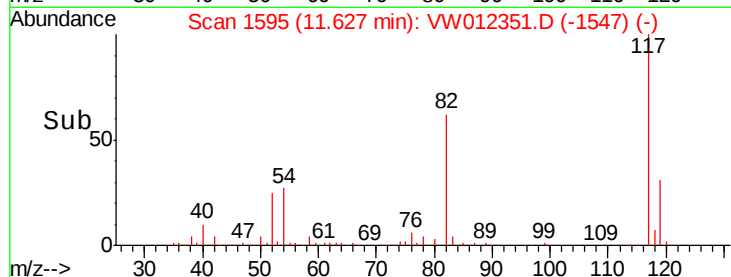
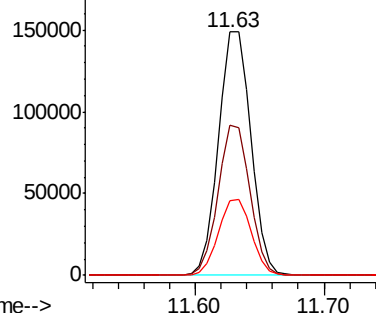


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 68.343 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW012351.D
Acq: 30 Aug 2019 15:42

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.3	102.4	153.6
129	95.7	75.8	113.6
131	89.3	71.4	107.2

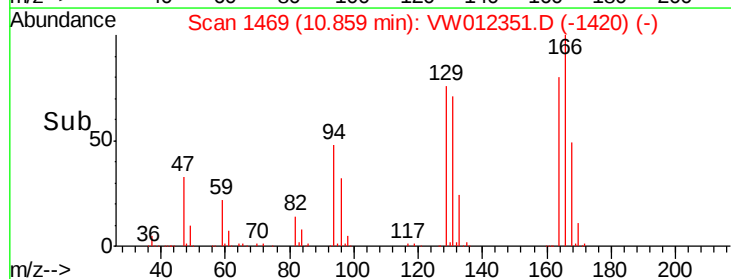
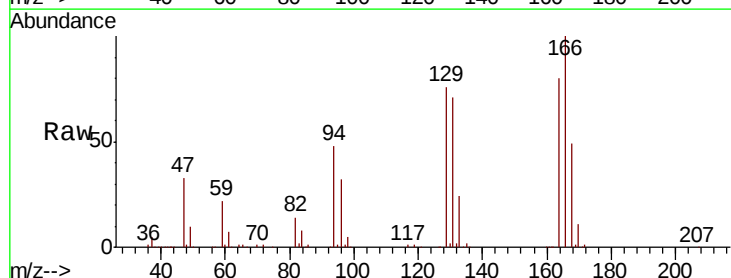
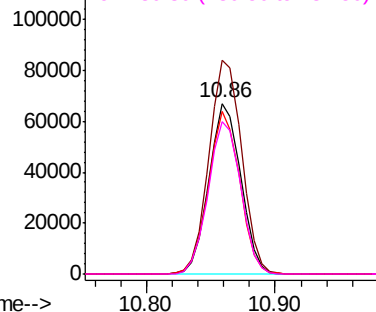
Abundance

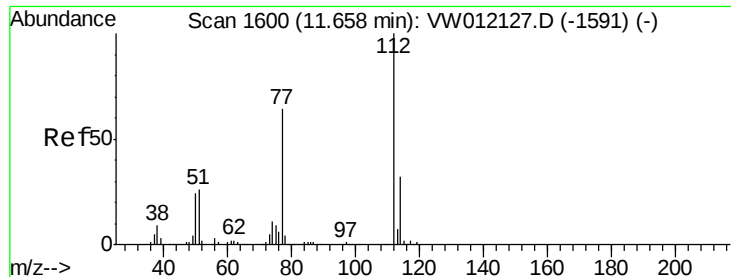
Ion 163.80 (163.50 to 164.50): V

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

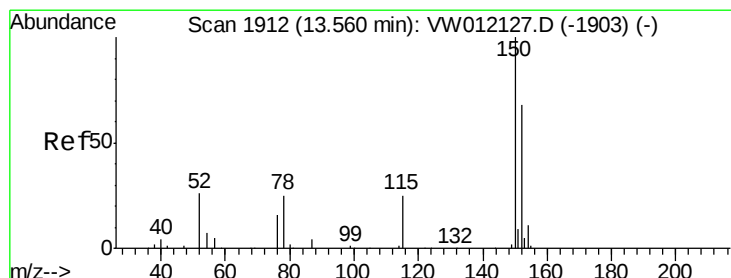
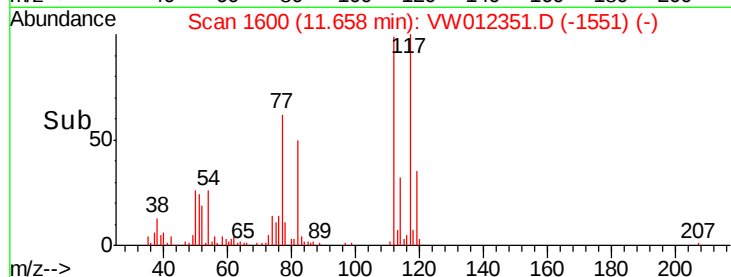
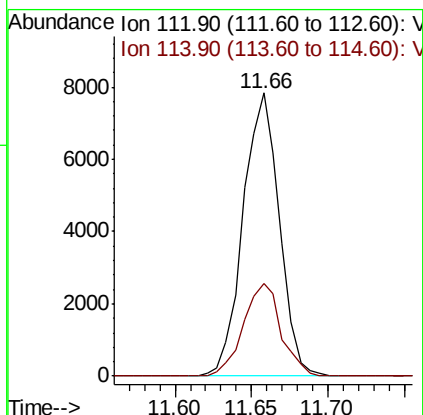
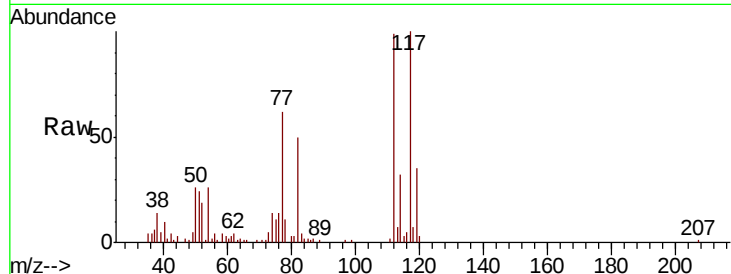




#65
Chlorobenzene
Concen: 2.531 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW012351.D
Acq: 30 Aug 2019 15:42

Instrument :
MSVOA_W
ClientSampleId :
S504-K2-9.5-10.0-082919

Tot Ion:112 Resp: 12900
Ion Ratio Lower Upper
112 100
114 32.7 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW012351.D
Acq: 30 Aug 2019 15:42

Tgt Ion:152 Resp: 99960
Ion Ratio Lower Upper
152 100
115 60.3 30.1 90.3
150 156.5 0.0 345.8

