

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW102418\
 Data File : VW006324.D
 Acq On : 24 Oct 2018 17:17
 Operator : SY/AP
 Sample : J5635-22
 Misc : 5.13G/10ML/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 A40F8

Quant Time: Oct 25 07:37:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM100918S.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 25 07:32:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	178069	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	145311	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.57	152	41296	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	41617	20.72	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	82.88%
7) Chloroethane-d5	2.89	69	39556	22.88	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	91.52%
10) 1,1-Dichloroethene-d2	4.01	63	61650	15.99	ug/L	-0.01
Spiked Amount	25.000	Range	45 - 110	Recovery	=	63.96%
20) 2-Butanone-d5	7.08	46	30742	46.18	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	92.36%
24) Chloroform-d	7.65	84	92026	23.86	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	95.44%
26) 1,2-Dichloroethane-d4	8.31	65	53882	25.25	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	101.00%
29) Benzene-d6	8.28	84	184110	27.91	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	111.64%
33) 1,2-Dichloropropane-d6	9.28	67	54918	27.58	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	110.32%
37) Toluene-d8	10.33	98	168782	25.58	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	102.32%
38) trans-1,3-Dichloropropene-	10.59	79	20067	20.74	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	82.96%
39) 2-Hexanone-d5	10.93	63	23243	48.31	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	96.62%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	41682	21.53	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	86.12%
61) 1,2-Dichlorobenzene-d4	13.86	152	31686	22.39	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	89.56%

Target Compounds

Target Compounds	R.T.	Qvalue	Response	Conc	Units	Qvalue
11) 1,1,2-Trichloro-1,2,2-trif	4.01	101	622	0.292	ug/L #	15
13) Acetone	4.12	43	28281	42.055	ug/L	100
14) Carbon disulfide	4.37	76	7110	1.064	ug/L	95
16) Methylene chloride	4.91	84	5085	2.212	ug/L	96
21) 2-Butanone	7.18	43	3780	4.230	ug/L	96
34) Benzene	8.33	78	12439	1.668	ug/L	100
35) Trichloroethene	8.84	95	5202	2.479	ug/L #	2
40) 1,2-Dichloropropane	9.28	63	6125	3.310	ug/L #	87
42) cis-1,3-Dichloropropene	10.04	75	1515	0.501	ug/L #	82
44) Toluene	10.40	91	6531	0.780	ug/L	95
55) o-xylene	12.17	106	1967	0.539	ug/L	96
57) Isopropylbenzene	12.47	105	56773	5.591	ug/L #	96
63) 1,3-Dichlorobenzene	13.51	146	41018	16.174	ug/L	96
64) 1,4-Dichlorobenzene	13.58	146	257253	100.734	ug/L	99
65) 1,2-Dichlorobenzene	13.88	146	6120	2.623	ug/L	93
67) 1,3,5-Trichlorobenzene	15.15	180	14661	7.172	ug/L #	94
68) 1,2,4-trichlorobenzene	15.15	180	14661	8.411	ug/L #	94

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QLast Update : Thu Oct 25 07:32:16 2018
Response via : Initial Calibration

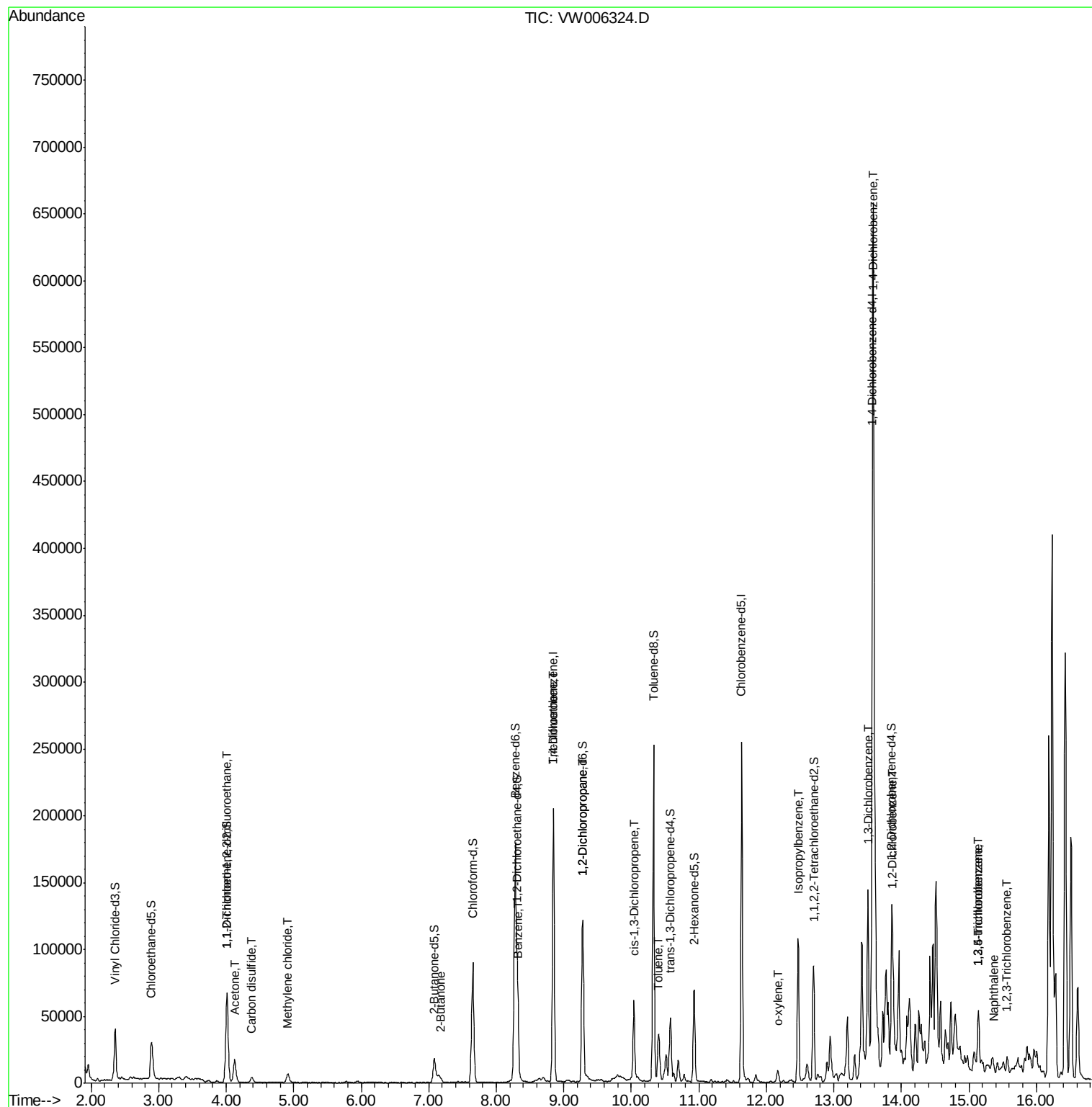
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Naphthalene	15.38	128	3232	0.916	ug/L #	81
70) 1,2,3-Trichlorobenzene	15.57	180	1069	0.683	ug/L #	83

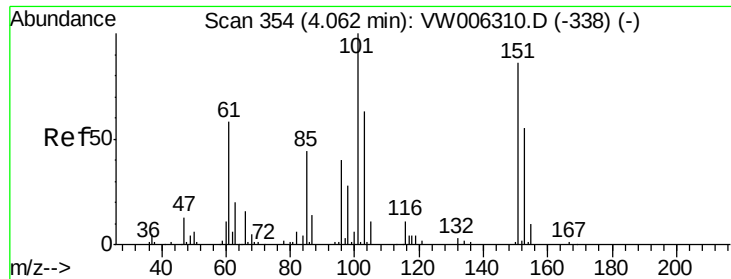
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_W\DATA\VW102418\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM100918S.M
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QLast Update : Thu Oct 25 07:32:16 2018
Response via : Initial Calibration





#11

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.292 ug/L

RT: 4.01 min Scan# 345

Delta R.T. -0.06 min

Lab File: VW006324.D

Acq: 24 Oct 2018 17:17

Instrument :

MSVOA_W

ClientSampleId :

A40F8

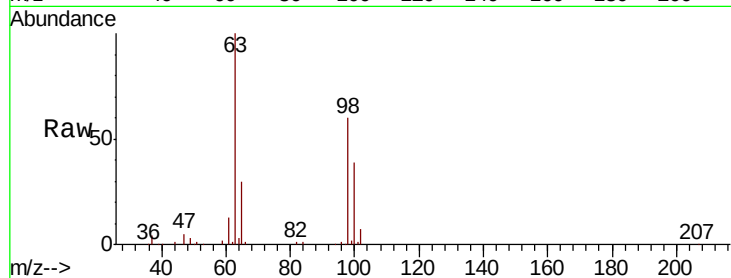
Tgt Ion: 101 Resp: 622

Ion Ratio Lower Upper

101 100

85 0.0 33.4 50.2#

151 0.0 68.7 103.1#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V

300

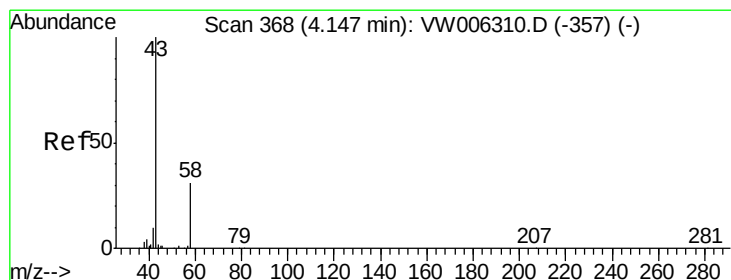
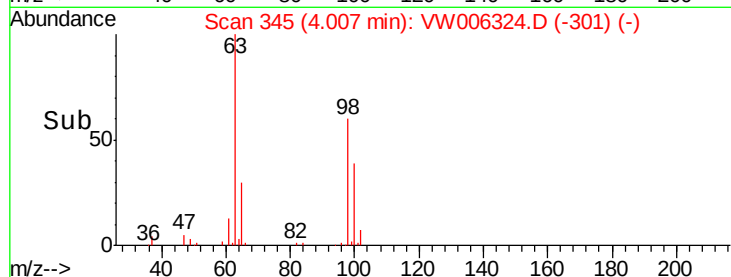
200

100

0

3.95 4.00 4.05

Time-->



#13

Acetone

Concen: 42.055 ug/L

RT: 4.12 min Scan# 364

Delta R.T. -0.01 min

Lab File: VW006324.D

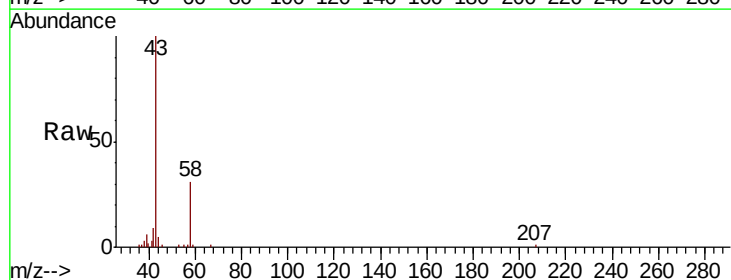
Acq: 24 Oct 2018 17:17

Tgt Ion: 43 Resp: 28281

Ion Ratio Lower Upper

43 100

58 30.8 0.0 61.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

12000

10000

8000

6000

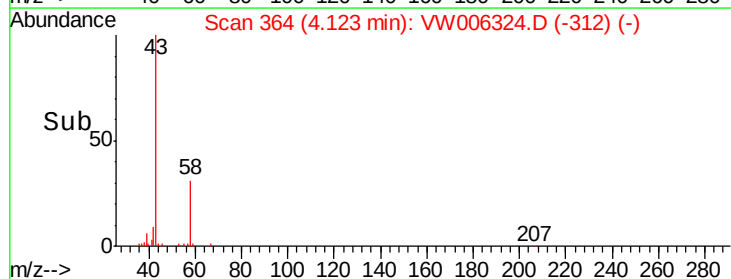
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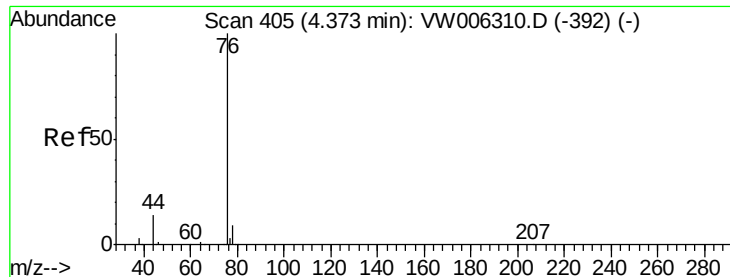
2000

0

4.00 4.05 4.10 4.15 4.20

Time-->

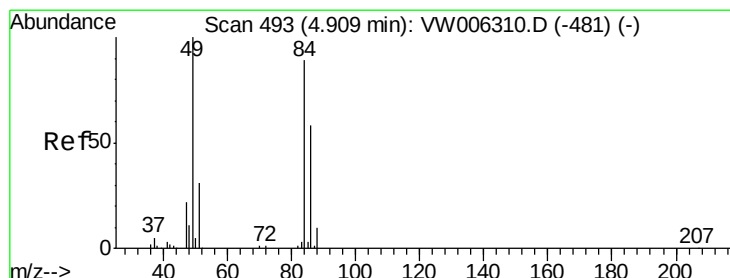
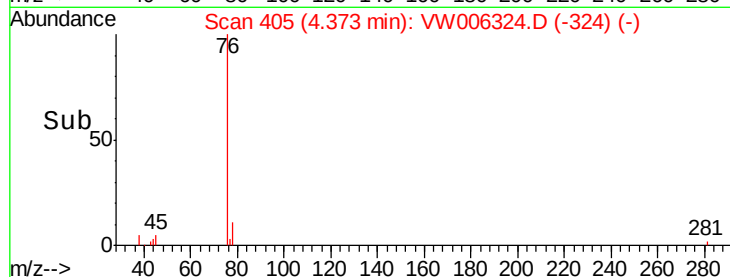
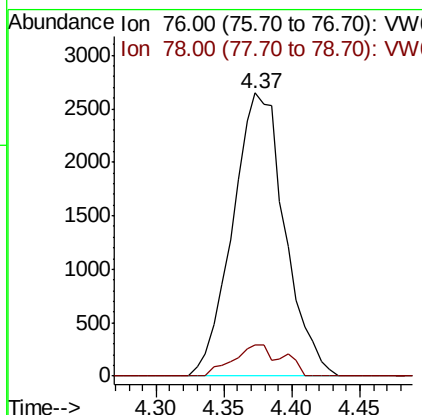
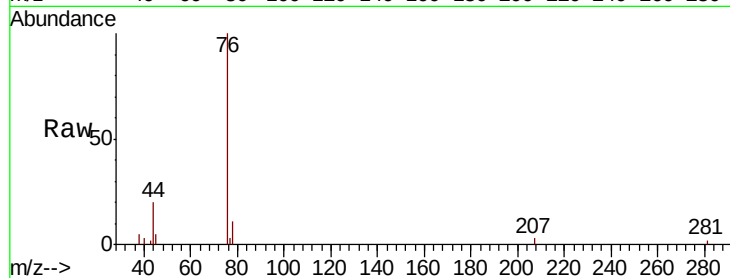




#14
Carbon disulfide
Concen: 1.064 ug/L
RT: 4.37 min Scan# 405
Delta R.T. -0.01 min
Lab File: VW006324.D
Acq: 24 Oct 2018 17:17

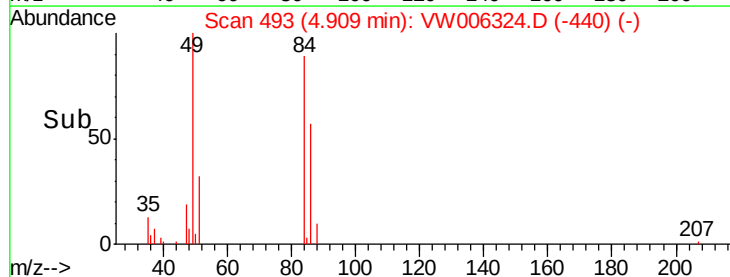
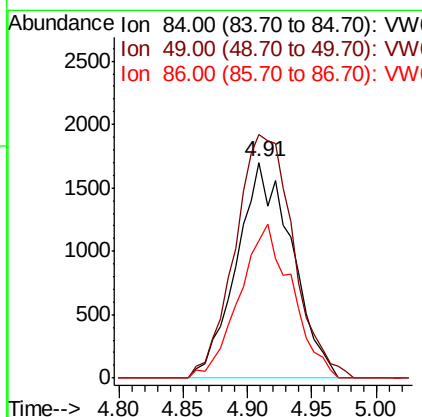
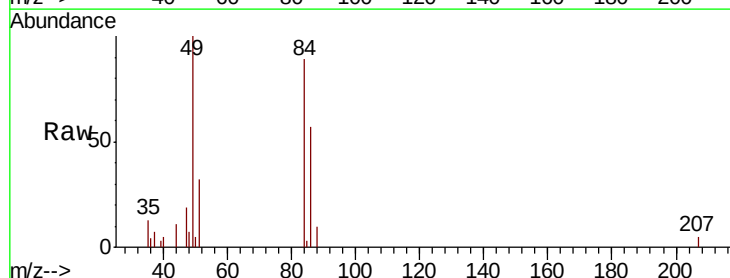
Instrument :
MSVOA_W
ClientSampleId :
A40F8

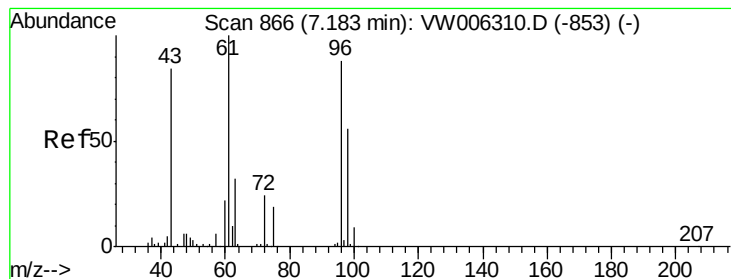
Tgt Ion: 76 Resp: 7110
Ion Ratio Lower Upper
76 100
78 11.2 7.6 11.4



#16
Methylene chloride
Concen: 2.212 ug/L
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW006324.D
Acq: 24 Oct 2018 17:17

Tgt Ion: 84 Resp: 5085
Ion Ratio Lower Upper
84 100
49 112.8 83.5 155.1
86 63.7 44.9 83.5





#21

2-Butanone

Concen: 4.230 ug/L

RT: 7.18 min Scan# 865

Delta R.T. -0.00 min

Lab File: VW006324.D

Acq: 24 Oct 2018 17:17

Instrument :

MSVOA_W

ClientSampled :

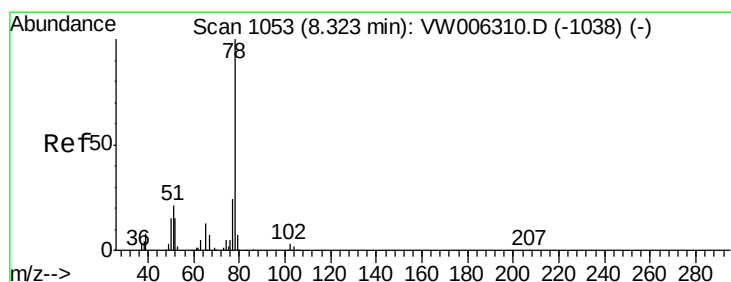
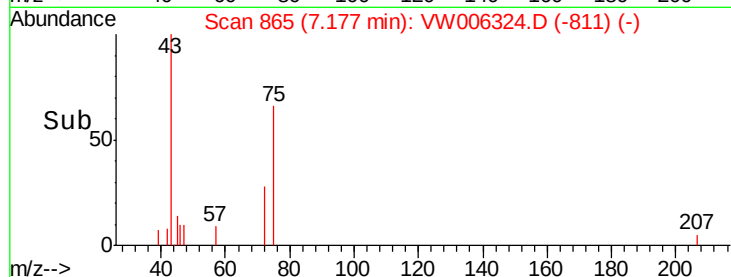
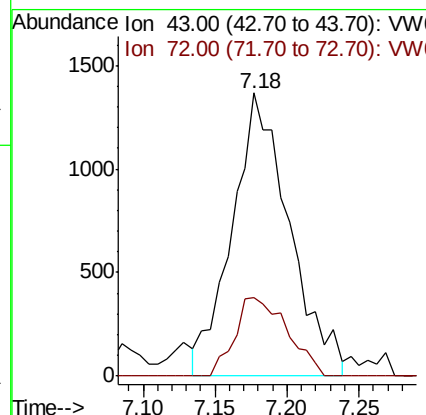
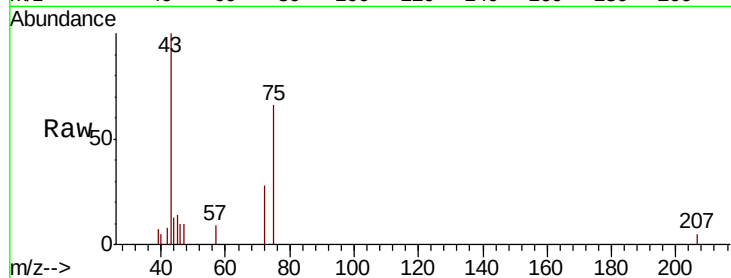
A40F8

Tgt Ion: 43 Resp: 3780

Ion Ratio Lower Upper

43 100

72 25.4 13.8 41.4



#34

Benzene

Concen: 1.668 ug/L

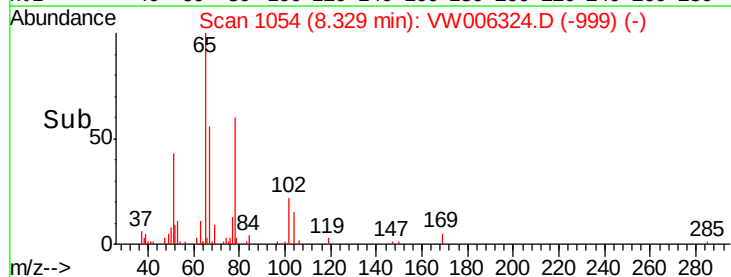
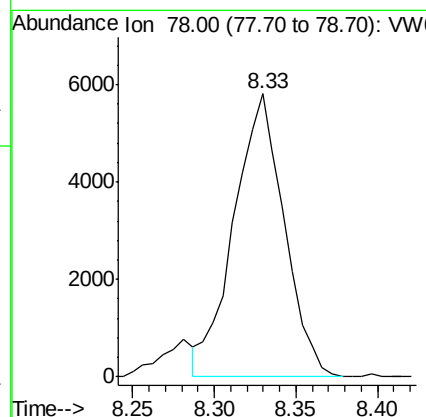
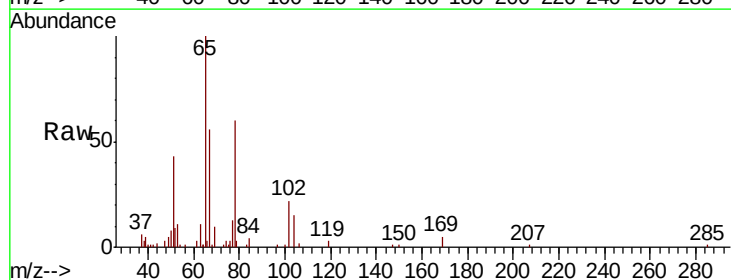
RT: 8.33 min Scan# 1054

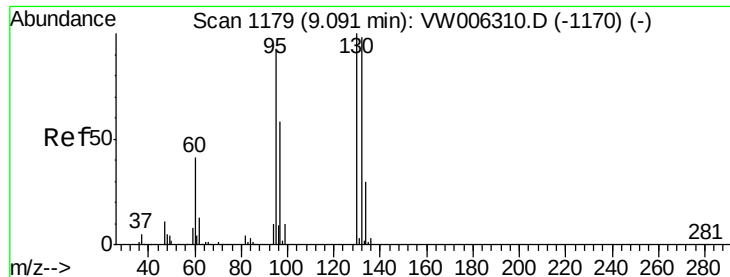
Delta R.T. 0.01 min

Lab File: VW006324.D

Acq: 24 Oct 2018 17:17

Tgt Ion: 78 Resp: 12439





#35

Trichloroethene

Concen: 2.479 ug/L

RT: 8.84 min Scan# 1138

Delta R.T. -0.25 min

Lab File: VW006324.D

Acq: 24 Oct 2018 17:17

Instrument :

MSVOA_W

ClientSampleId :

A40F8

Tgt Ion: 95 Resp: 5202

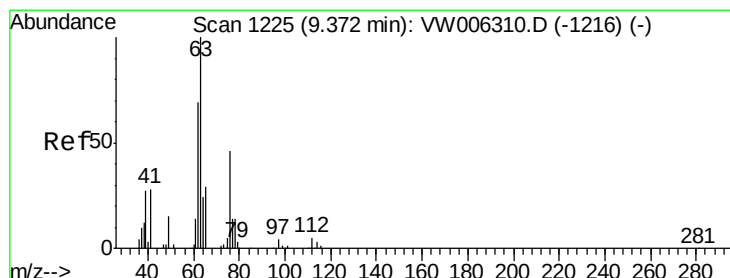
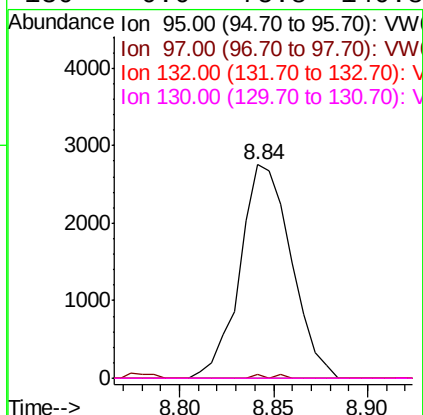
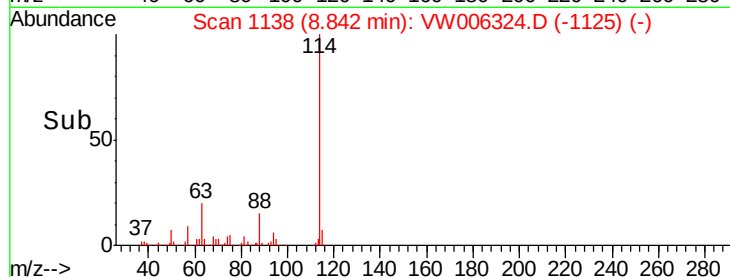
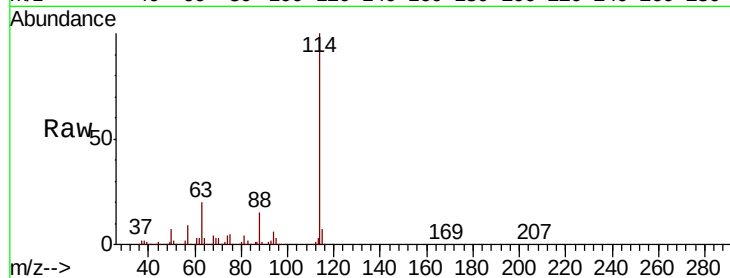
Ion Ratio Lower Upper

95 100

97 0.4 45.8 85.0#

132 0.0 72.9 135.3#

130 0.0 75.8 140.8#



#40

1,2-Dichloropropane

Concen: 3.310 ug/L

RT: 9.28 min Scan# 1210

Delta R.T. -0.09 min

Lab File: VW006324.D

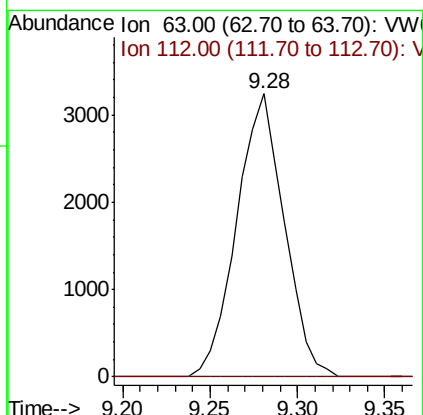
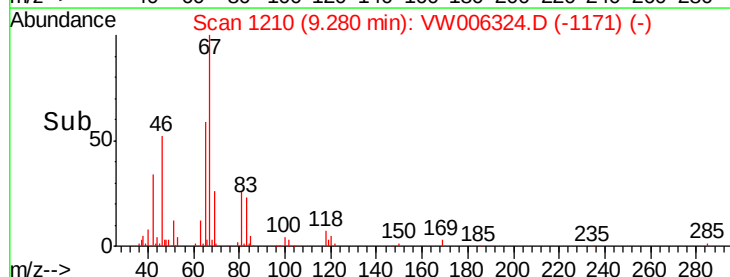
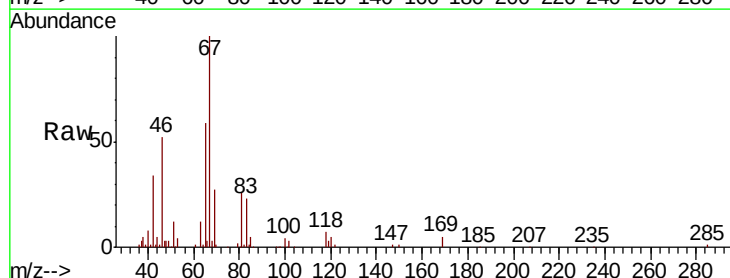
Acq: 24 Oct 2018 17:17

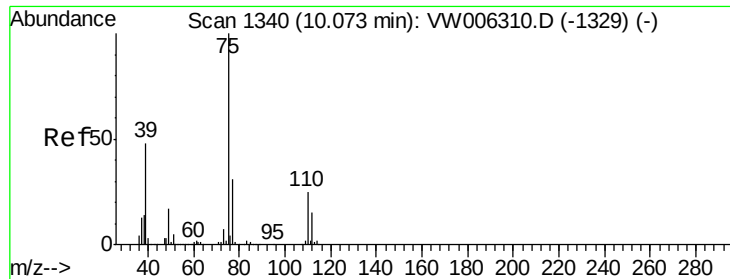
Tgt Ion: 63 Resp: 6125

Ion Ratio Lower Upper

63 100

112 0.0 3.5 5.3#





#42

cis-1,3-Dichloropropene

Concen: 0.501 ug/L

RT: 10.04 min Scan# 1334

Delta R.T. -0.04 min

Lab File: VW006324.D

Acq: 24 Oct 2018 17:17

Instrument :

MSVOA_W

ClientSampled :

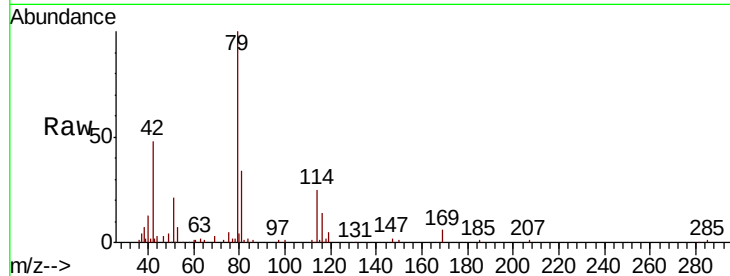
A40F8

Tgt Ion: 75 Resp: 1515

Ion Ratio Lower Upper

75 100

77 42.6 22.6 42.0#



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

10.04

800

600

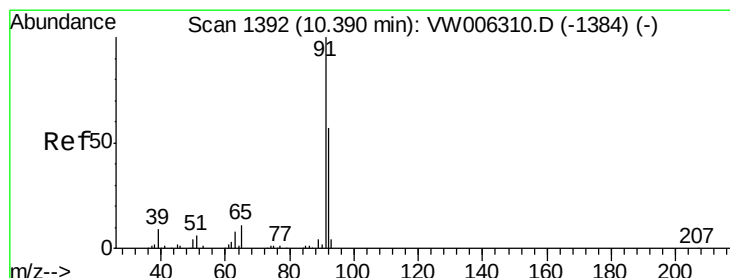
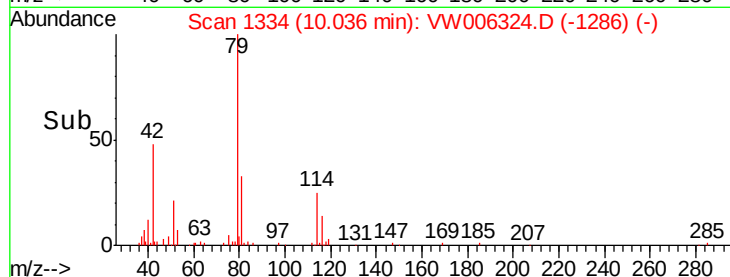
400

200

0

10.00 10.05

Time-->



#44

Toluene

Concen: 0.780 ug/L

RT: 10.40 min Scan# 1393

Delta R.T. 0.01 min

Lab File: VW006324.D

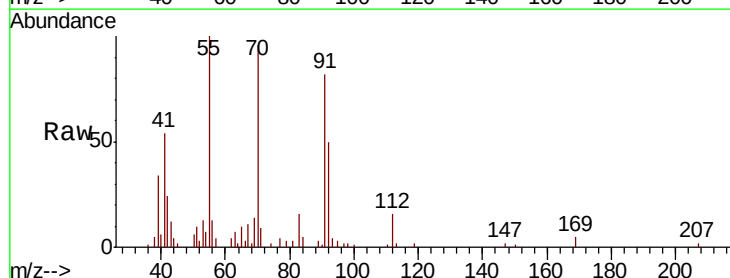
Acq: 24 Oct 2018 17:17

Tgt Ion: 91 Resp: 6531

Ion Ratio Lower Upper

91 100

92 61.3 40.4 75.0



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

10.40

4000

3000

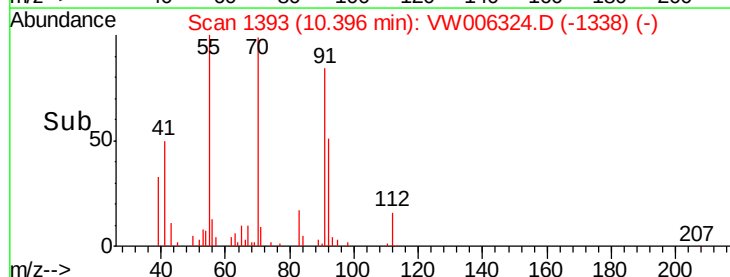
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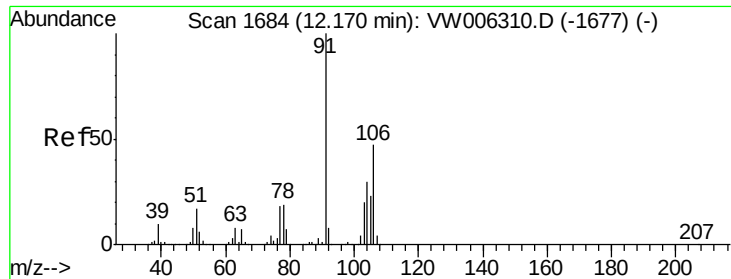
1000

0

10.35 10.40 10.45

Time-->

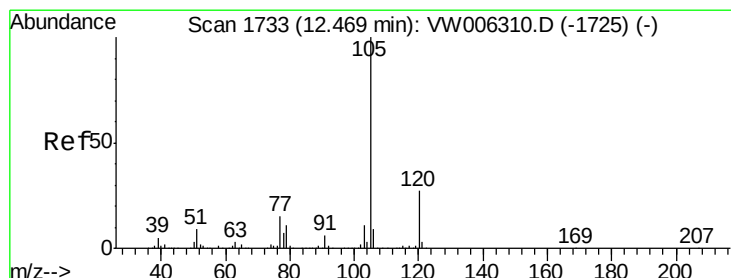
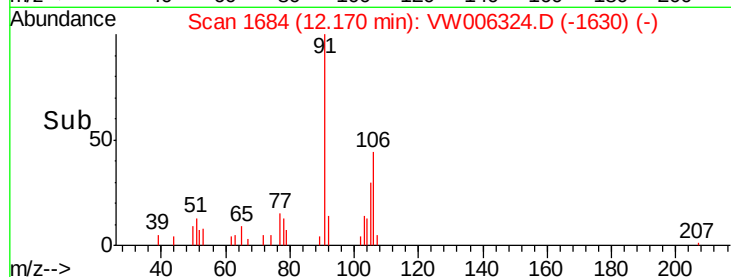
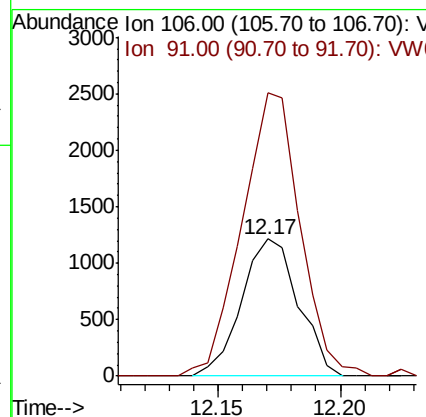
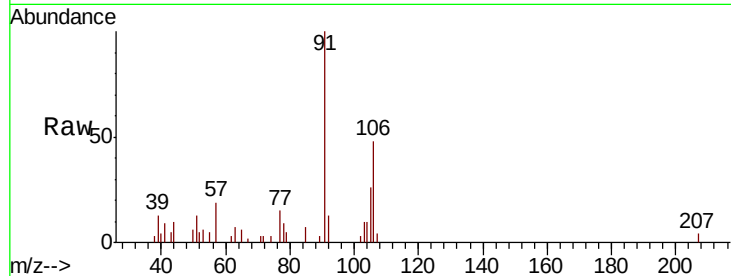




#55
o-xylene
Concen: 0.539 ug/L
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW006324.D
Acq: 24 Oct 2018 17:17

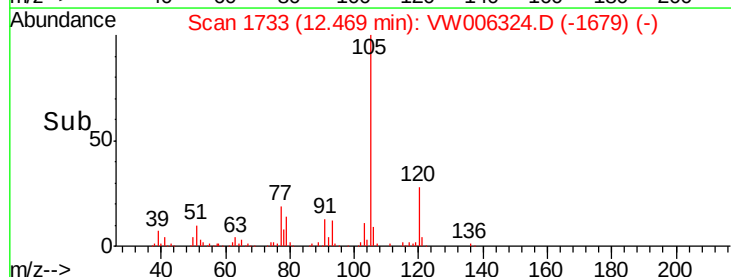
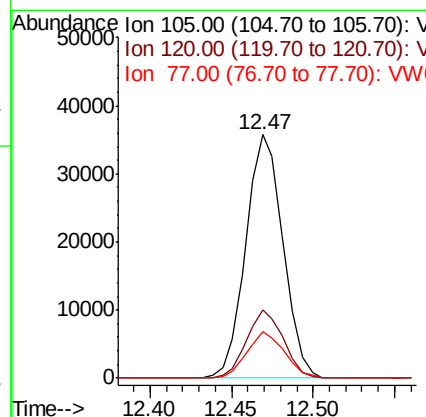
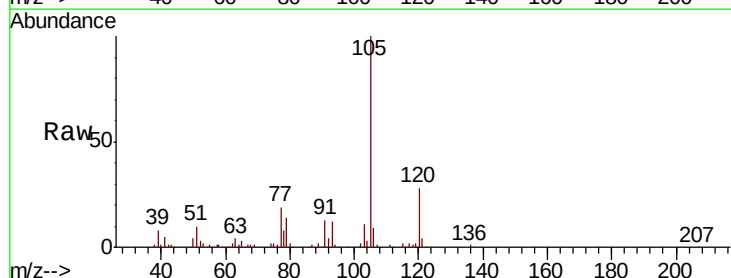
Instrument :
MSVOA_W
ClientSampled :
A40F8

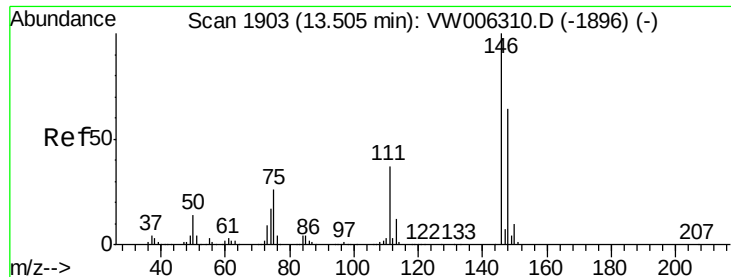
Tgt Ion:106 Resp: 1967
Ion Ratio Lower Upper
106 100
91 206.3 148.7 276.1



#57
Isopropylbenzene
Concen: 5.591 ug/L
RT: 12.47 min Scan# 1733
Delta R.T. -0.00 min
Lab File: VW006324.D
Acq: 24 Oct 2018 17:17

Tgt Ion:105 Resp: 56773
Ion Ratio Lower Upper
105 100
120 27.5 21.8 32.6
77 19.3 12.2 18.2#

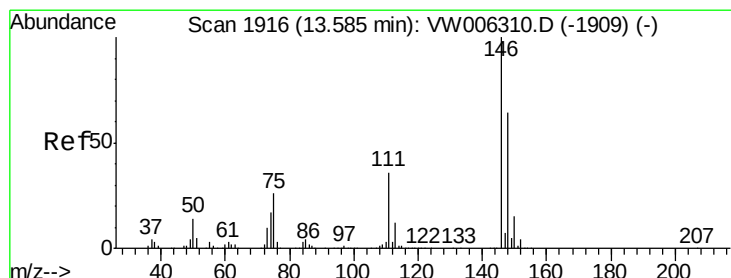
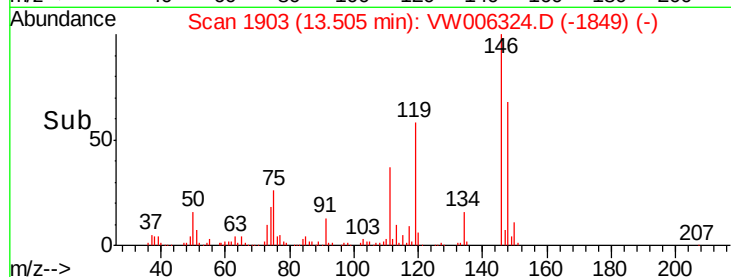
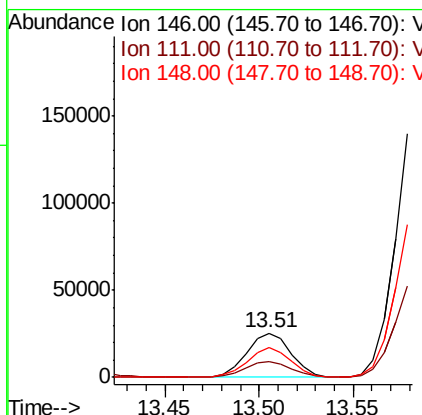
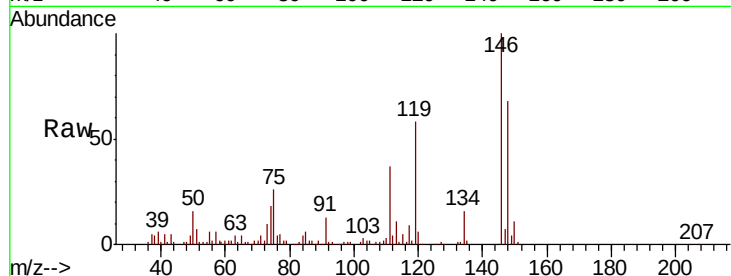




#63
 1,3-Dichlorobenzene
 Concen: 16.174 ug/L
 RT: 13.51 min Scan# 1903
 Delta R.T. -0.00 min
 Lab File: VW006324.D
 Acq: 24 Oct 2018 17:17

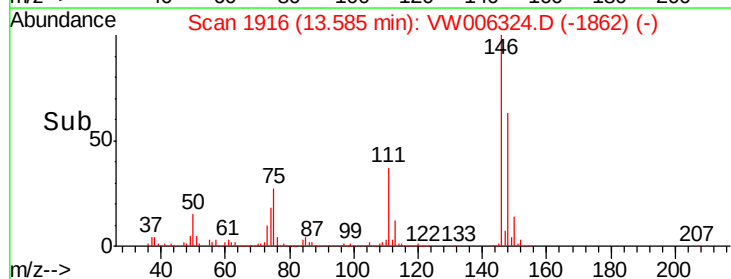
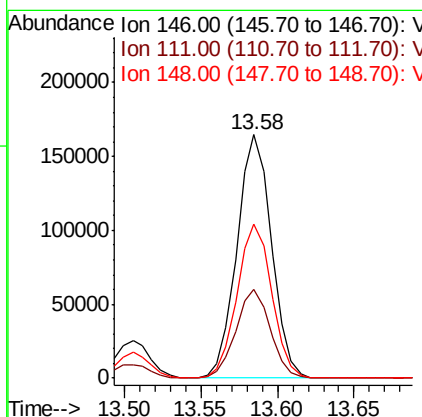
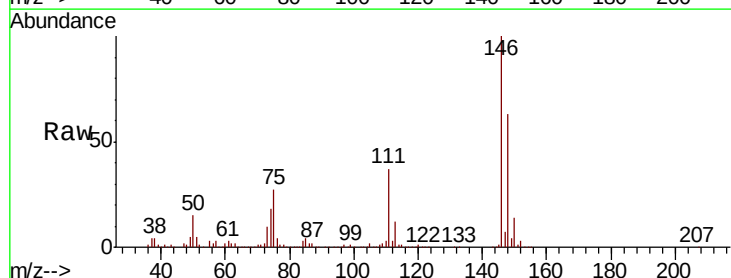
Instrument :
 MSVOA_W
 ClientSampleId :
 A40F8

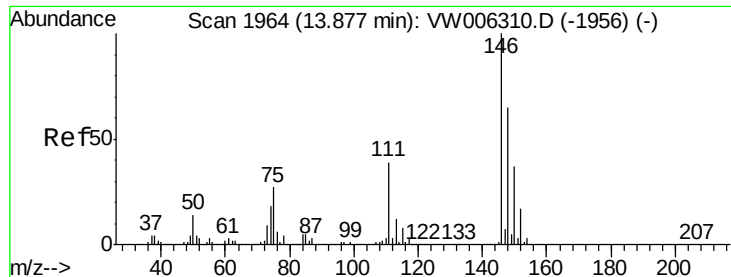
Tgt Ion:146 Resp: 41018
 Ion Ratio Lower Upper
 146 100
 111 36.8 26.3 48.9
 148 68.4 44.7 82.9



#64
 1,4-Dichlorobenzene
 Concen: 100.734 ug/L
 RT: 13.58 min Scan# 1916
 Delta R.T. -0.00 min
 Lab File: VW006324.D
 Acq: 24 Oct 2018 17:17

Tgt Ion:146 Resp: 257253
 Ion Ratio Lower Upper
 146 100
 111 36.6 24.7 45.9
 148 63.5 44.9 83.5

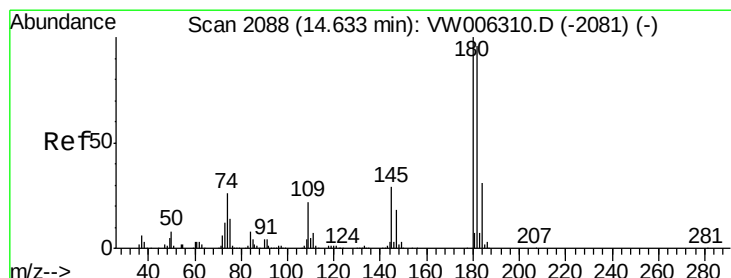
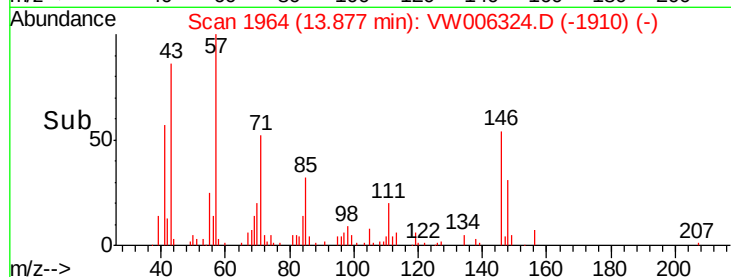
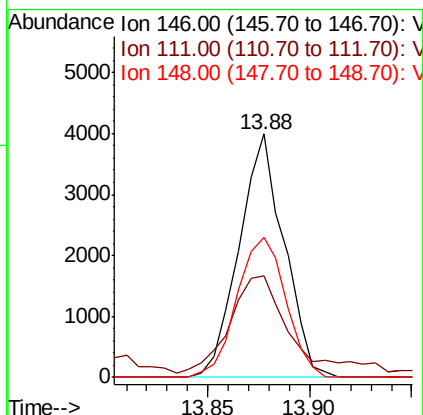
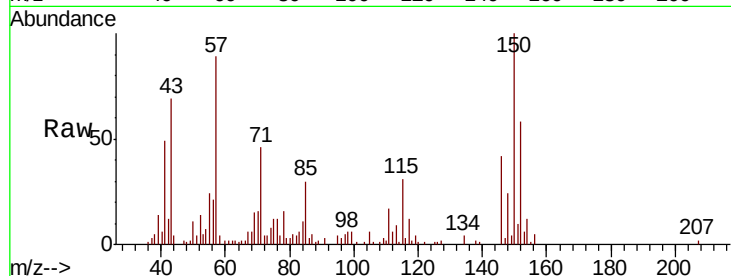




#65
 1,2-Dichlorobenzene
 Concen: 2.623 ug/L
 RT: 13.88 min Scan# 1964
 Delta R.T. -0.00 min
 Lab File: VW006324.D
 Acq: 24 Oct 2018 17:17

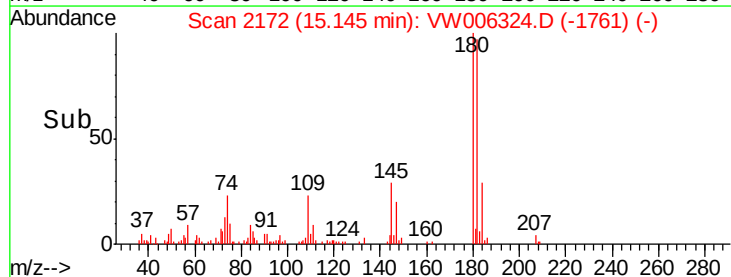
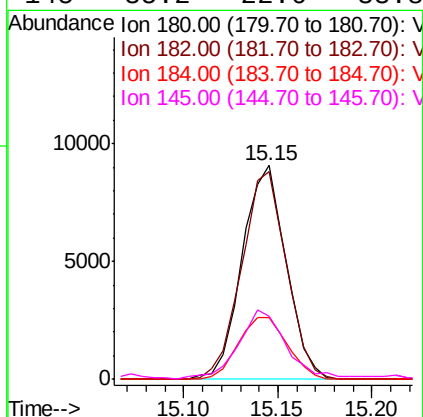
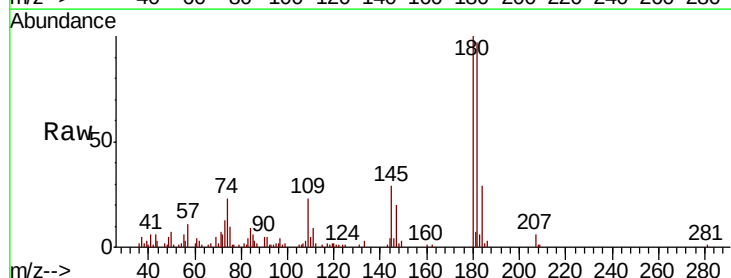
Instrument :
 MSVOA_W
 ClientSampled :
 A40F8

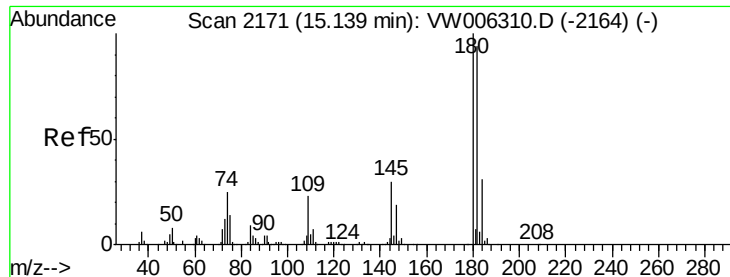
Tgt Ion:146 Resp: 6120
 Ion Ratio Lower Upper
 146 100
 111 41.7 31.1 46.7
 148 57.3 51.2 76.8



#67
 1,3,5-Trichlorobenzene
 Concen: 7.172 ug/L
 RT: 15.15 min Scan# 2172
 Delta R.T. 0.51 min
 Lab File: VW006324.D
 Acq: 24 Oct 2018 17:17

Tgt Ion:180 Resp: 14661
 Ion Ratio Lower Upper
 180 100
 182 99.1 76.0 114.0
 184 32.2 24.3 36.5
 145 35.2 22.6 33.8#

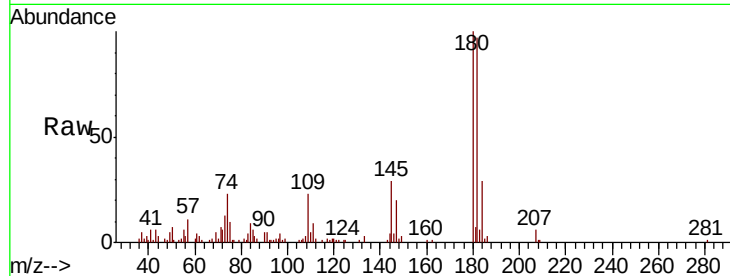




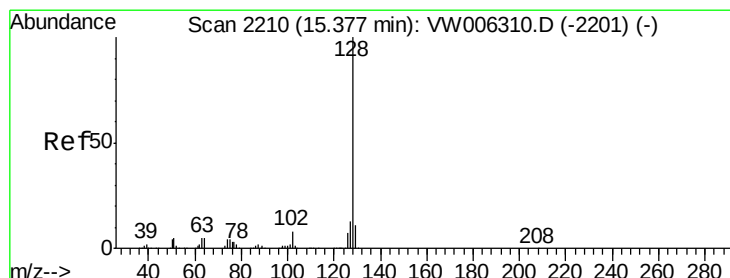
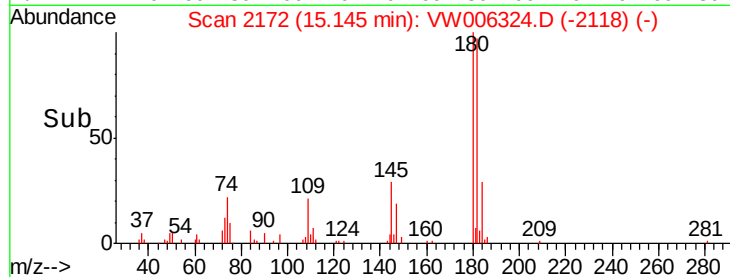
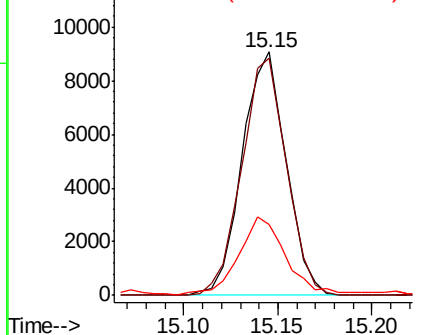
#68
 1,2,4-trichlorobenzene
 Concen: 8.411 ug/L
 RT: 15.15 min Scan# 2172
 Delta R.T. -0.00 min
 Lab File: VW006324.D
 Acq: 24 Oct 2018 17:17

Instrument :
 MSVOA_W
 ClientSampleId :
 A40F8

Tgt Ion:180 Resp: 14661
 Ion Ratio Lower Upper
 180 100
 182 99.1 76.2 114.2
 145 35.2 23.0 34.6#

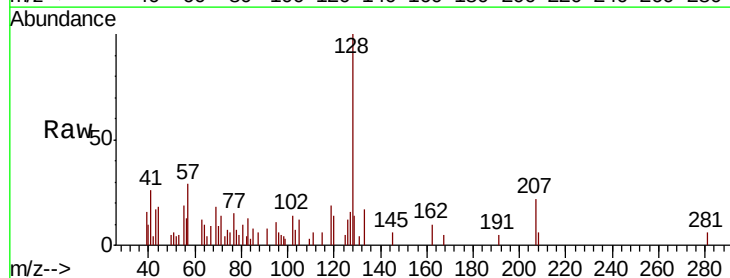


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

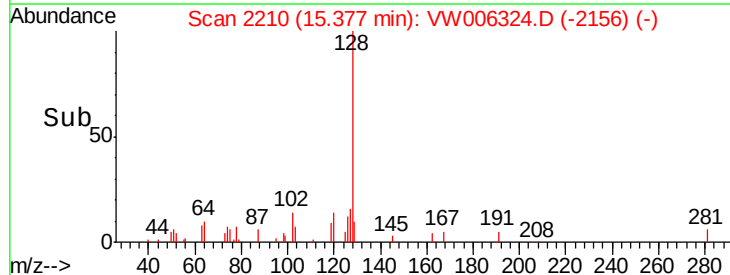
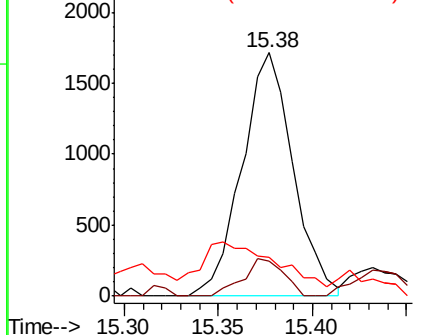


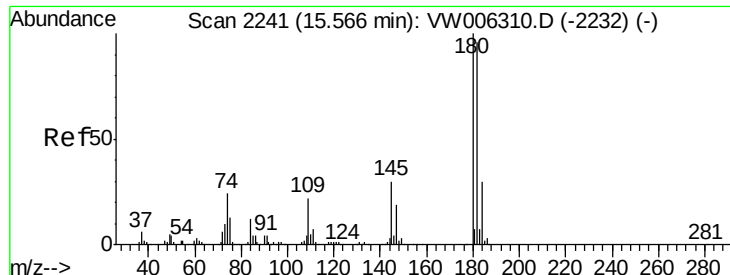
#69
 Naphthalene
 Concen: 0.916 ug/L
 RT: 15.38 min Scan# 2210
 Delta R.T. -0.00 min
 Lab File: VW006324.D
 Acq: 24 Oct 2018 17:17

Tgt Ion:128 Resp: 3232
 Ion Ratio Lower Upper
 128 100
 129 12.2 8.9 13.3
 127 25.8 10.5 15.7#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#70
 1,2,3-Trichlorobenzene
 Concen: 0.683 ug/L
 RT: 15.57 min Scan# 2241
 Delta R.T. -0.00 min
 Lab File: VW006324.D
 Acq: 24 Oct 2018 17:17

Instrument :
 MSVOA_W
 ClientSampleId :
 A40F8

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.6	75.5	113.3
145	63.6	24.5	36.7

