

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091418\
 Data File : VW005359.D
 Acq On : 13 Sep 2018 19:15
 Operator : SY/AP
 Sample : VSTDCCC025
 Misc : 5.00G/10ML/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02587

Quant Time: Sep 14 06:00:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM091318S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Sep 14 05:03:07 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	312895	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.64	117	307249	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.57	152	163812	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	79500	22.01	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.04%
7) Chloroethane-d5	2.89	69	61974	24.27	ug/L	0.01
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.08%
10) 1,1-Dichloroethene-d2	4.03	63	153905	23.87	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	95.48%
20) 2-Butanone-d5	7.10	46	54436	40.02	ug/L	0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	80.04%
24) Chloroform-d	7.66	84	153720	26.34	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	105.36%
26) 1,2-Dichloroethane-d4	8.31	65	94758	25.39	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	101.56%
29) Benzene-d6	8.28	84	306928	24.88	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	99.52%
33) 1,2-Dichloropropane-d6	9.28	67	89274	25.36	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	101.44%
37) Toluene-d8	10.33	98	326061	26.09	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	104.36%
38) trans-1,3-Dichloropropene-	10.59	79	45654	25.91	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	103.64%
39) 2-Hexanone-d5	10.93	63	47532	43.35	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	86.70%
48) 1,1,2,2-Tetrachloroethane-	12.70	84	87751	23.83	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	95.32%
61) 1,2-Dichlorobenzene-d4	13.86	152	126271	25.68	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	102.72%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	157653	24.442	ug/L	100
3) Chloromethane	2.21	50	137682	23.181	ug/L	99
5) Vinyl chloride	2.36	62	134082	23.695	ug/L	99
6) Bromomethane	2.78	94	74493	25.410	ug/L	99
8) Chloroethane	2.92	64	72447	24.104	ug/L	96
9) Trichlorofluoromethane	3.26	101	172675	23.430	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.07	101	96183	23.890	ug/L	99
12) 1,1-Dichloroethene	4.05	96	83039	24.386	ug/L	94
13) Acetone	4.15	43	42789	33.508	ug/L	99
14) Carbon disulfide	4.38	76	309020	23.116	ug/L	98
15) Methyl Acetate	4.69	43	52865	18.765	ug/L #	81
16) Methylene chloride	4.93	84	109007	18.345	ug/L	98
17) Methyl tert-butyl Ether	5.43	73	219354	23.205	ug/L	99
18) trans-1,2-Dichloroethene	5.43	96	92734	24.389	ug/L	98
19) 1,1-Dichloroethane	6.23	63	169001	24.323	ug/L	97
21) 2-Butanone	7.18	43	67146	34.311	ug/L	96
22) cis-1,2-Dichloroethene	7.18	96	97126	23.934	ug/L	96

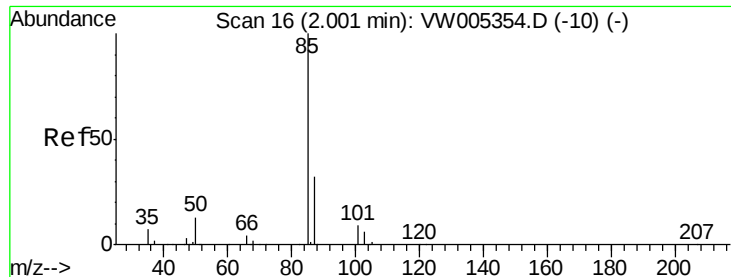
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091418\
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 Quant Title : VOC Analysis
 QLast Update : Fri Sep 14 05:03:07 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.52	128	44148	23.344	ug/L	98
25) Chloroform	7.68	83	175992	24.086	ug/L	99
27) 1,2-Dichloroethane	8.41	62	134305	23.679	ug/L	98
30) Cyclohexane	7.96	56	168103	24.231	ug/L	99
31) 1,1,1-Trichloroethane	7.88	97	167995	24.049	ug/L	99
32) Carbon tetrachloride	8.07	117	152390	23.514	ug/L	99
34) Benzene	8.33	78	410939	24.007	ug/L	100
35) Trichloroethene	9.10	95	106814	23.511	ug/L	99
36) Methylcyclohexane	9.34	83	188730	23.934	ug/L	99
40) 1,2-Dichloropropane	9.37	63	100336	23.744	ug/L	100
41) Bromodichloromethane	9.65	83	129266	23.863	ug/L	100
42) cis-1,3-Dichloropropene	10.08	75	153953	24.665	ug/L	100
43) 4-Methyl-2-pentanone	10.22	43	162142	40.133	ug/L	99
44) Toluene	10.40	91	481438	24.547	ug/L	98
45) trans-1,3-Dichloropropene	10.61	75	142434	24.356	ug/L	98
46) 1,1,2-Trichloroethane	10.79	97	76113	22.946	ug/L	98
47) Tetrachloroethene	10.87	164	97939	23.809	ug/L	99
49) 2-Hexanone	10.98	43	123373	41.538	ug/L	98
50) Dibromochloromethane	11.13	129	94014	23.726	ug/L	99
51) 1,2-Dibromoethane	11.24	107	71802	22.054	ug/L	97
52) Chlorobenzene	11.66	112	310320	24.247	ug/L	97
53) Ethylbenzene	11.74	91	556692	24.405	ug/L	98
54) m,p-Xylene	11.85	106	212789	24.914	ug/L	100
55) o-xylene	12.17	106	199881	24.922	ug/L	99
56) Styrene	12.19	104	344663	24.898	ug/L	98
57) Isopropylbenzene	12.47	105	551544	24.757	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.72	83	98502	21.598	ug/L	95
59) 1,2,3-Trichloropropane	12.77	75	81121	20.810	ug/L	99
62) Bromoform	12.35	173	60339	21.983	ug/L	99
63) 1,3-Dichlorobenzene	13.51	146	250257	24.025	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	258422	24.038	ug/L	99
65) 1,2-Dichlorobenzene	13.88	146	237026	23.769	ug/L	100
66) 1,2-Dibromo-3-chloropropan	14.49	75	20617	19.053	ug/L	93
67) 1,3,5-Trichlorobenzene	14.63	180	202652	24.570	ug/L	99
68) 1,2,4-trichlorobenzene	15.14	180	166784	24.466	ug/L	100
69) Naphthalene	15.38	128	339902	22.758	ug/L	100
70) 1,2,3-Trichlorobenzene	15.57	180	157374	24.562	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 24.442 ug/L

RT: 2.00 min Scan# 16

Delta R.T. 0.00 min

Lab File: VW005359.D

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Instrument :

MSVOA_W

ClientSampleId :

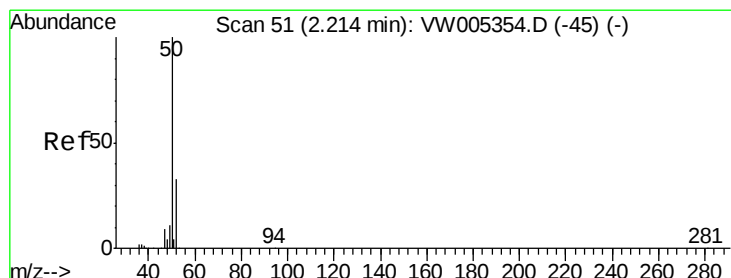
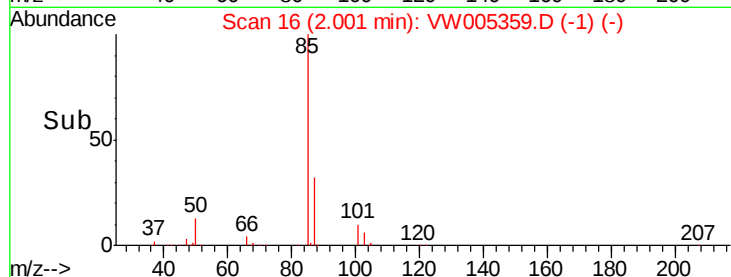
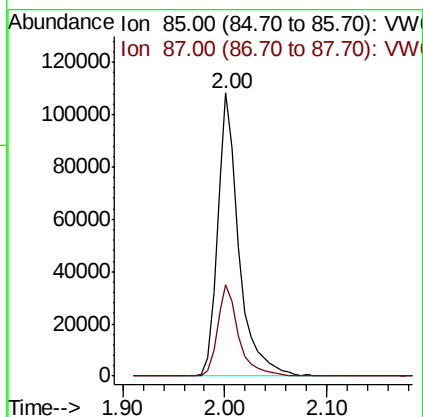
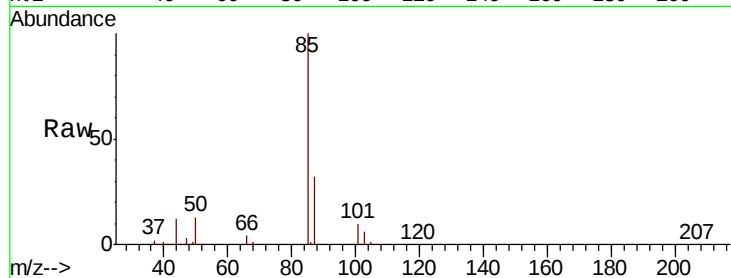
VSTD02587

Tgt Ion: 85 Resp: 157653

Ion Ratio Lower Upper

85 100

87 32.3 22.7 42.3



#3

Chloromethane

Concen: 23.181 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW005359.D

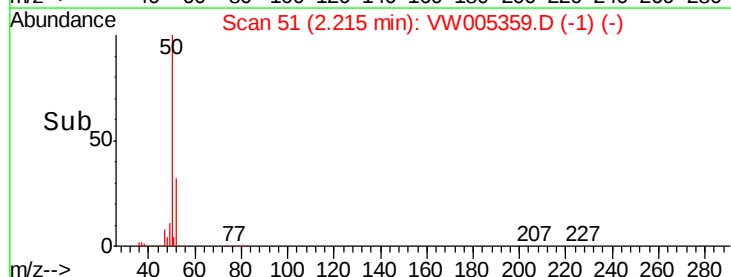
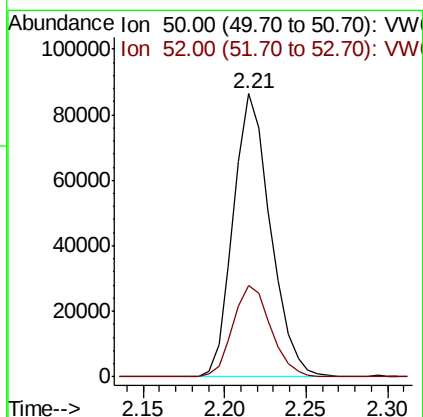
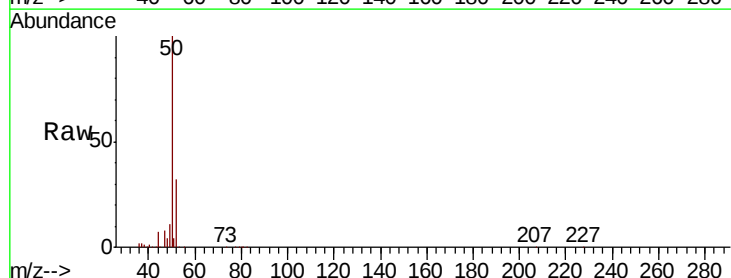
Acq: 13 Sep 2018 19:15

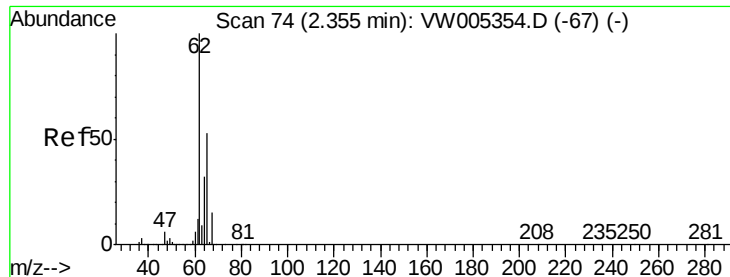
Tgt Ion: 50 Resp: 137682

Ion Ratio Lower Upper

50 100

52 32.1 22.9 42.5





#5

Vinyl chloride

Concen: 23.695 ug/L

RT: 2.36 min Scan# 75

Delta R.T. 0.01 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

Instrument :

MSVOA_W

ClientSampleId :

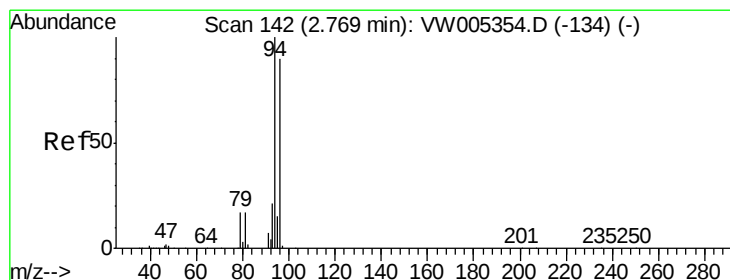
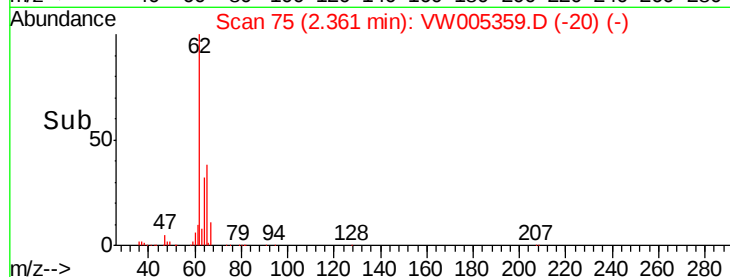
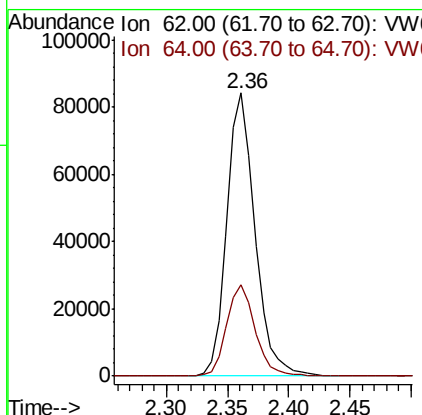
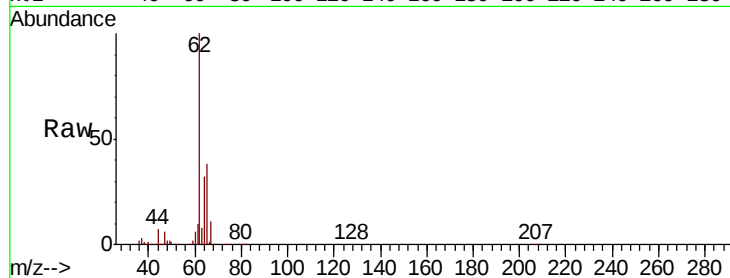
VSTD02587

Tgt Ion: 62 Resp: 134082

Ion Ratio Lower Upper

62 100

64 32.5 22.4 41.6



#6

Bromomethane

Concen: 25.410 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.01 min

Lab File: VW005359.D

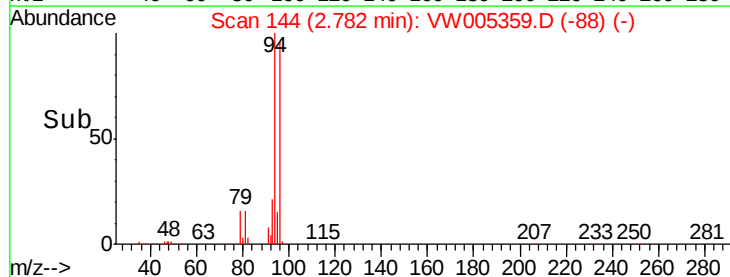
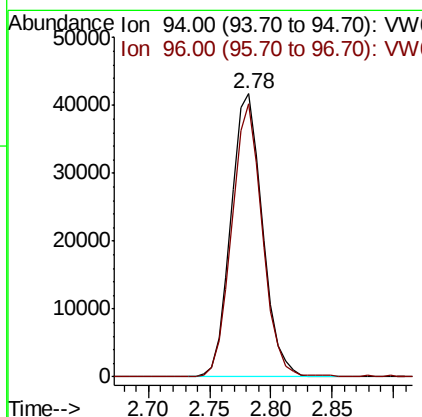
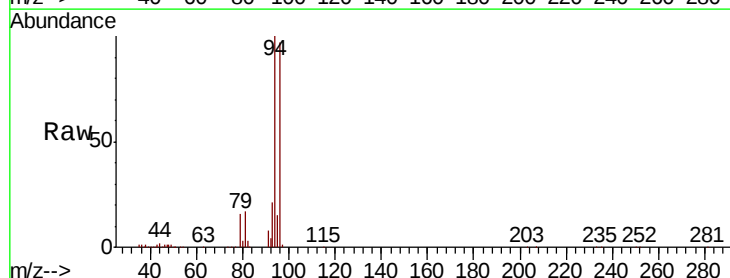
Acq: 13 Sep 2018 19:15

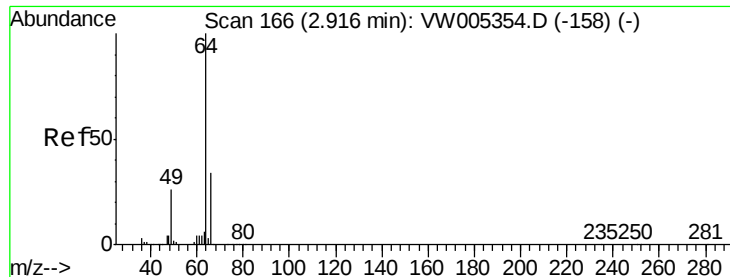
Tgt Ion: 94 Resp: 74493

Ion Ratio Lower Upper

94 100

96 93.3 9.3 176.3





#8

Chloroethane

Concen: 24.104 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.01 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

Instrument :

MSVOA_W

ClientSampleId :

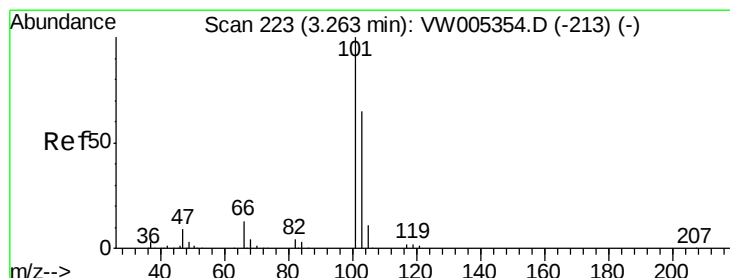
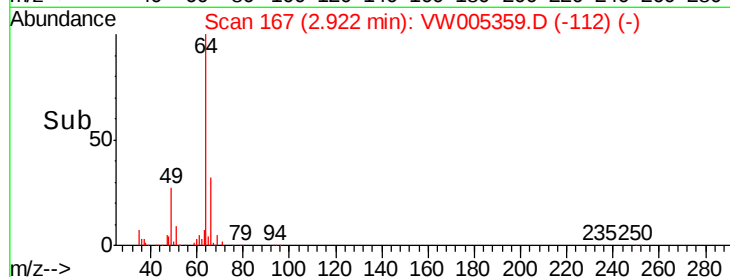
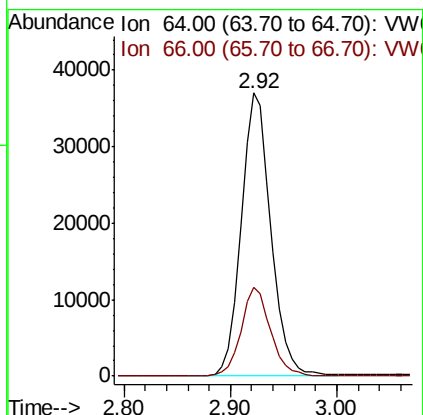
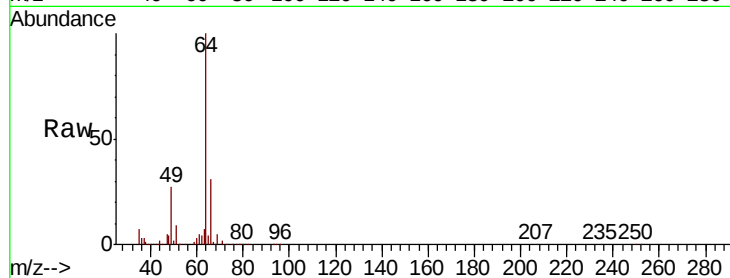
VSTD02587

Tgt Ion: 64 Resp: 72447

Ion Ratio Lower Upper

64 100

66 31.5 23.7 43.9



#9

Trichlorofluoromethane

Concen: 23.430 ug/L

RT: 3.26 min Scan# 223

Delta R.T. 0.00 min

Lab File: VW005359.D

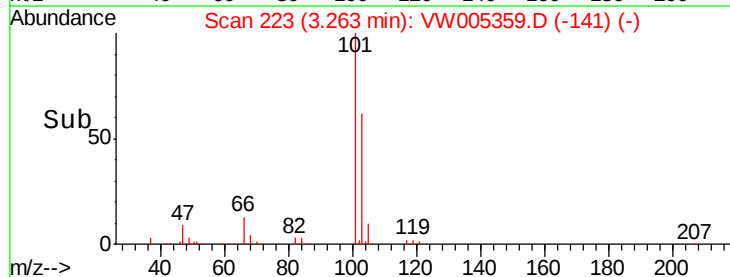
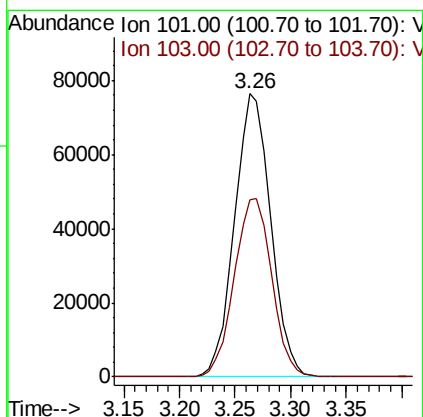
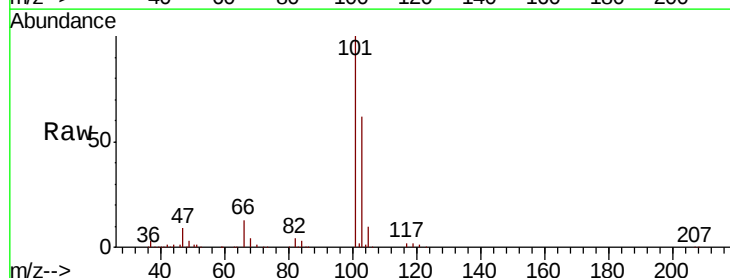
Acq: 13 Sep 2018 19:15

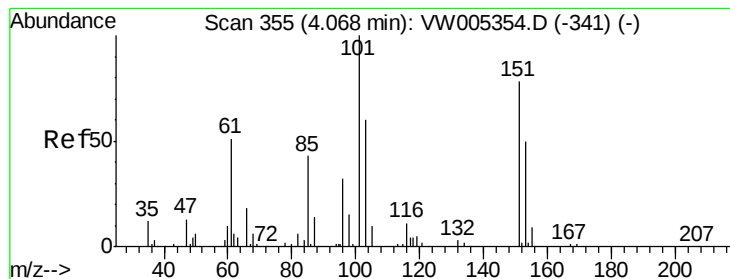
Tgt Ion: 101 Resp: 172675

Ion Ratio Lower Upper

101 100

103 65.4 44.9 83.5





#11

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

Concen: 23.890 ug/L

RT: 4.07 min Scan# 355

Delta R.T. 0.00 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

Instrument :

MSVOA_W

ClientSampleId :

VSTD02587

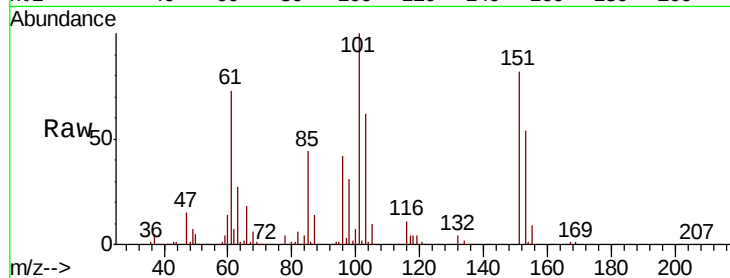
Tgt Ion: 101 Resp: 96183

Ion Ratio Lower Upper

101 100

85 45.1 35.8 53.8

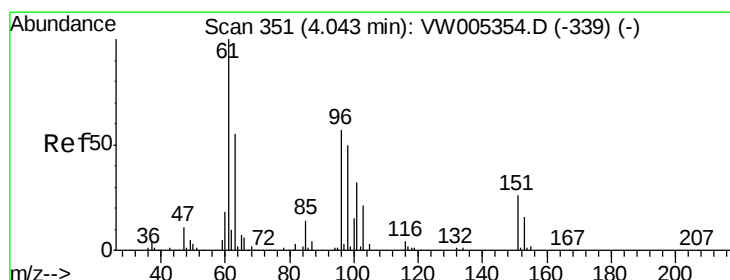
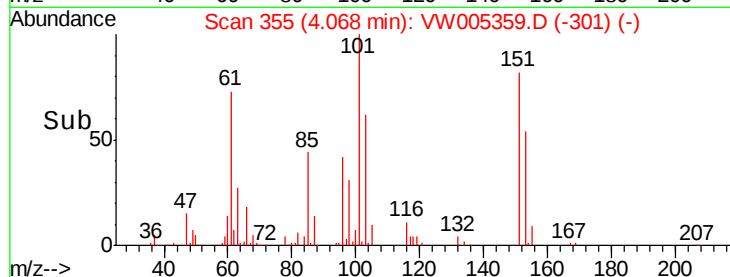
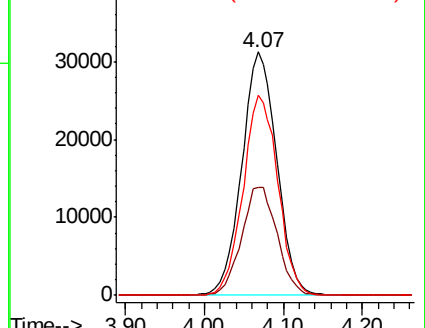
151 81.6 63.9 95.9



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



#12

1,1-Dichloroethene

Concen: 24.386 ug/L

RT: 4.05 min Scan# 352

Delta R.T. 0.01 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

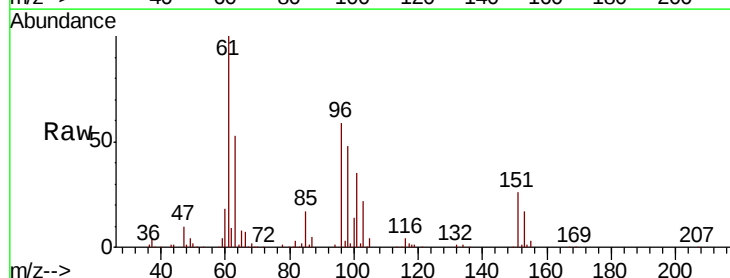
Tgt Ion: 96 Resp: 83039

Ion Ratio Lower Upper

96 100

61 170.5 123.3 229.1

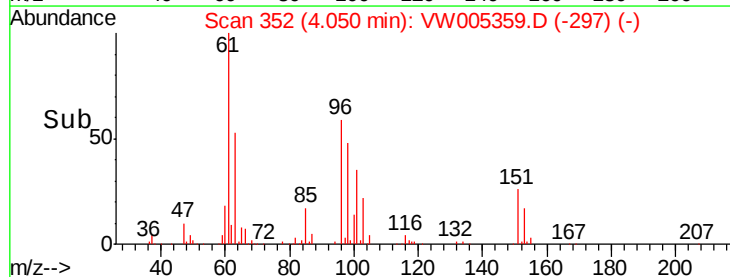
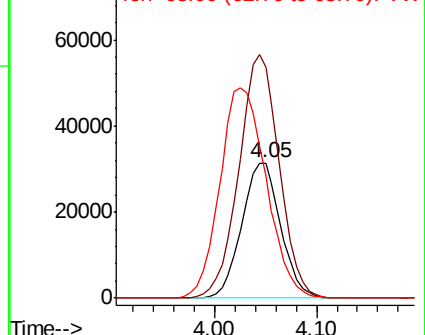
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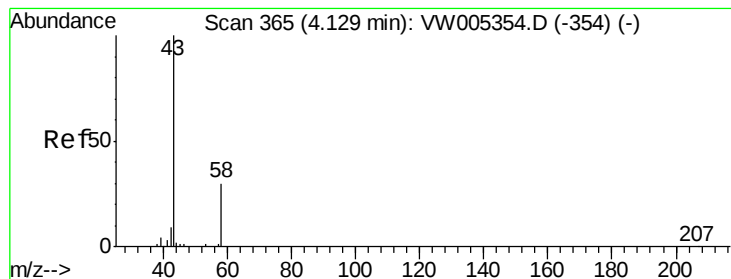


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 33.508 ug/L

RT: 4.15 min Scan# 368

Delta R.T. 0.02 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

Instrument :

MSVOA_W

ClientSampleId :

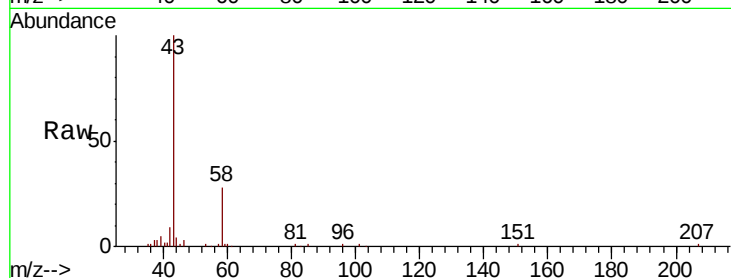
VSTD02587

Tgt Ion: 43 Resp: 42789

Ion Ratio Lower Upper

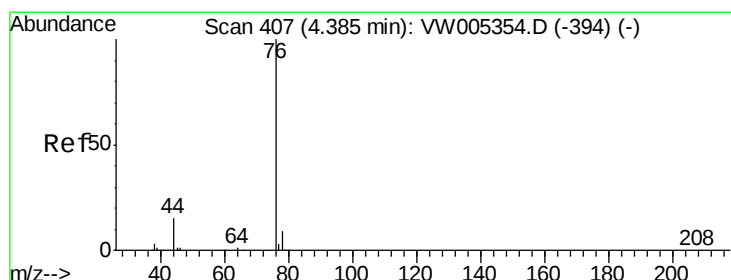
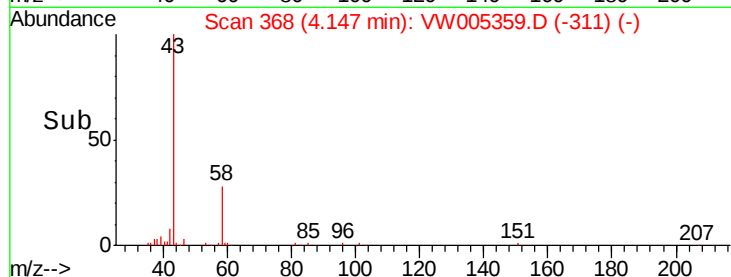
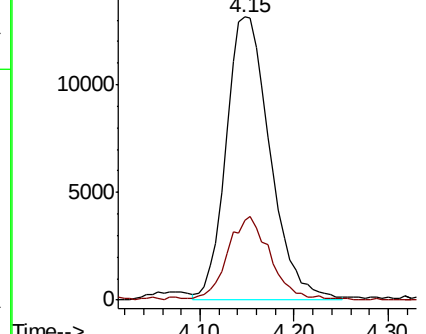
43 100

58 28.2 0.0 57.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 23.116 ug/L

RT: 4.38 min Scan# 407

Delta R.T. 0.00 min

Lab File: VW005359.D

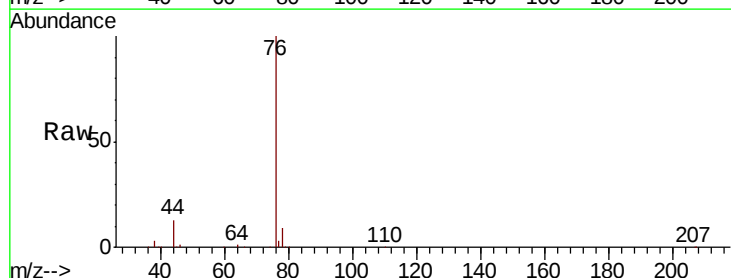
Acq: 13 Sep 2018 19:15

Tgt Ion: 76 Resp: 309020

Ion Ratio Lower Upper

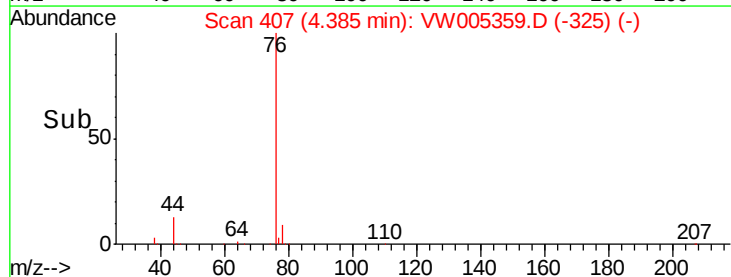
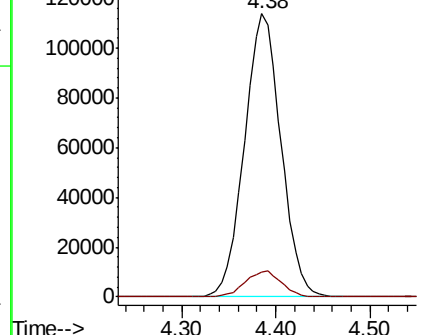
76 100

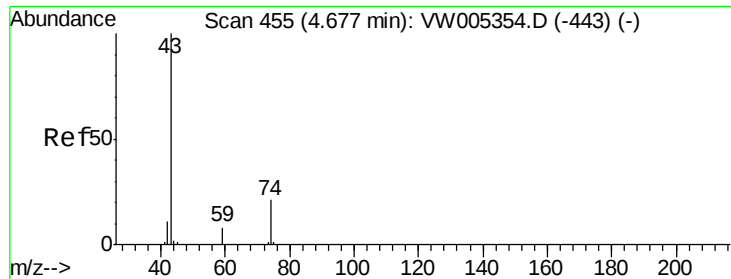
78 8.6 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW





#15

Methyl Acetate

Concen: 18.765 ug/L

RT: 4.69 min Scan# 457

Delta R.T. 0.01 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

Instrument :

MSVOA_W

ClientSampleId :

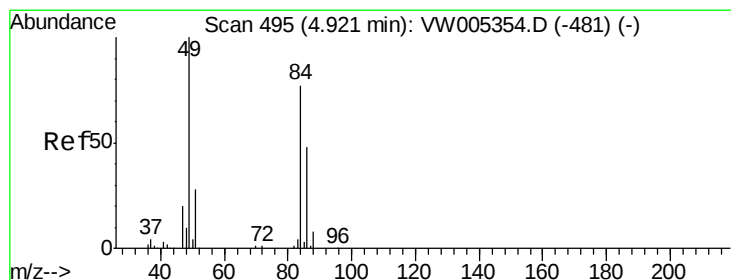
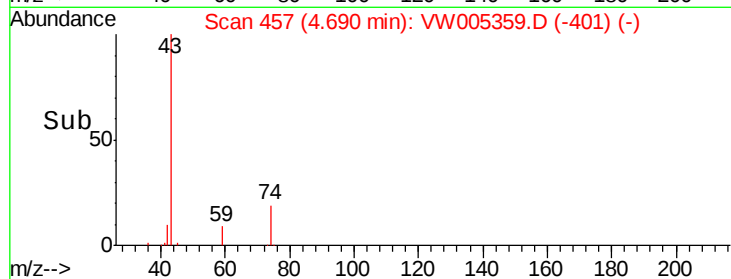
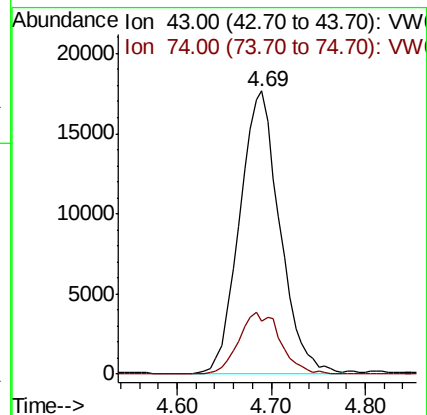
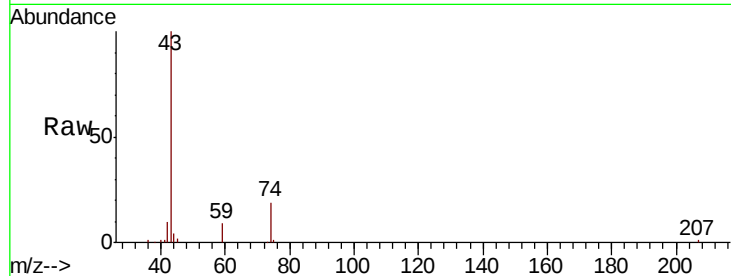
VSTD02587

Tgt Ion: 43 Resp: 52865

Ion Ratio Lower Upper

43 100

74 13.0 17.5 26.3#



#16

Methylene chloride

Concen: 18.345 ug/L

RT: 4.93 min Scan# 496

Delta R.T. 0.01 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

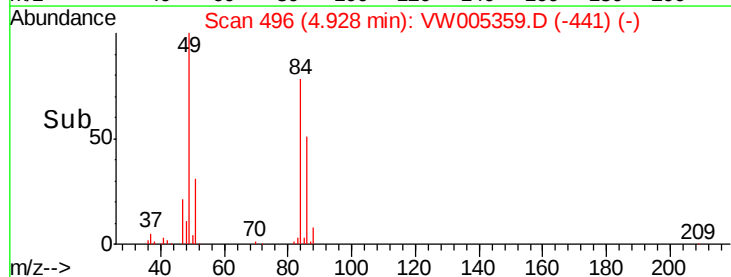
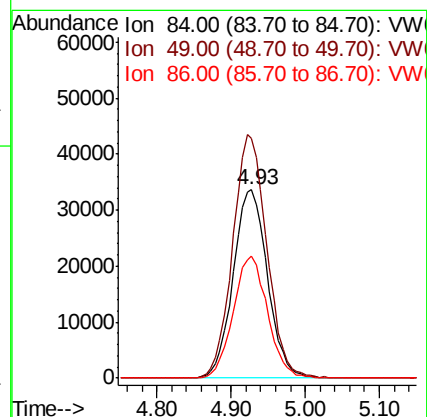
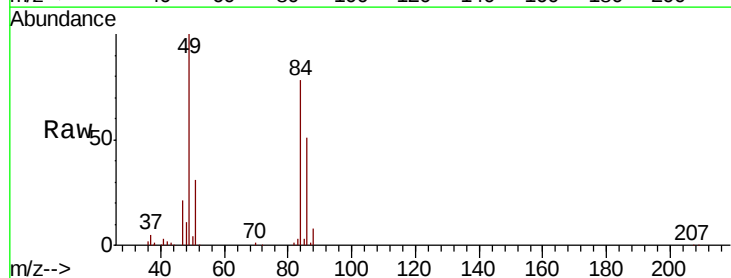
Tgt Ion: 84 Resp: 109007

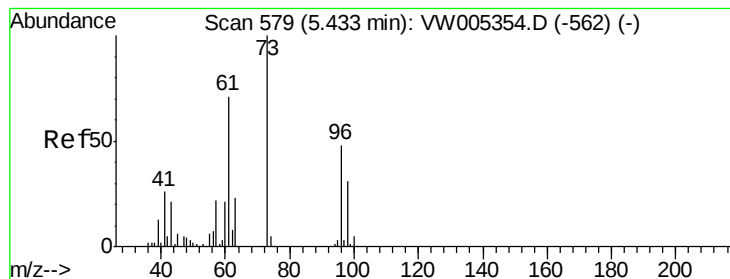
Ion Ratio Lower Upper

84 100

49 127.4 90.9 168.7

86 64.8 43.6 81.0





#17

Methyl tert-butyl Ether

Concen: 23.205 ug/L

RT: 5.43 min Scan# 579

Delta R.T. 0.00 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

Instrument :

MSVOA_W

ClientSampled :

VSTD02587

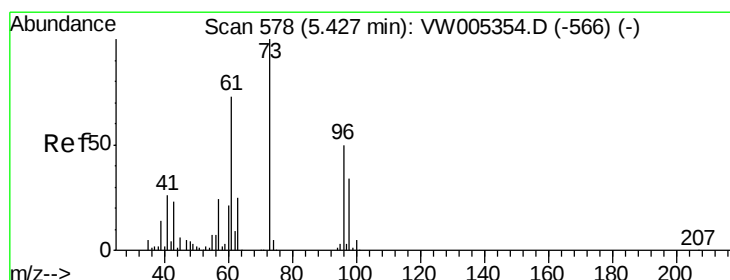
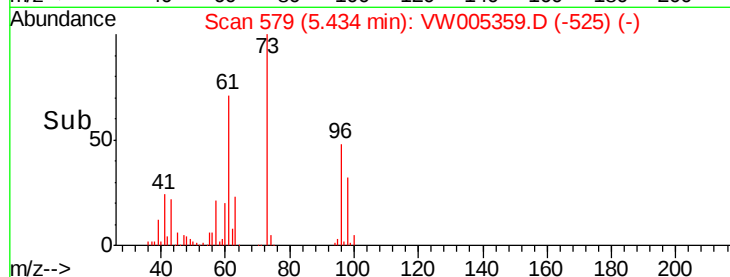
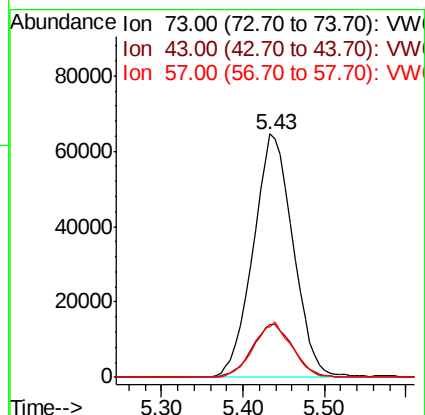
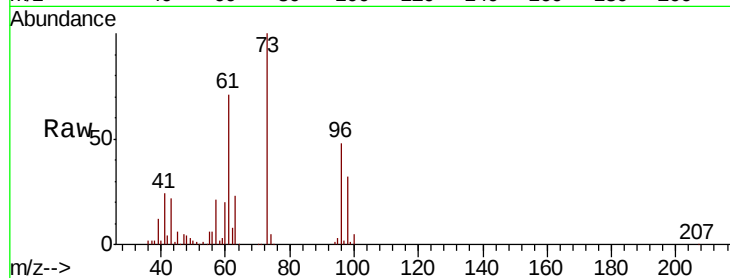
Tgt Ion: 73 Resp: 219354

Ion Ratio Lower Upper

73 100

43 22.4 17.7 26.5

57 21.8 17.8 26.6



#18

trans-1,2-Dichloroethene

Concen: 24.389 ug/L

RT: 5.43 min Scan# 579

Delta R.T. 0.01 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

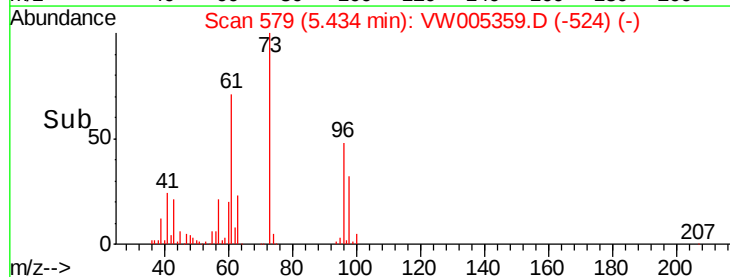
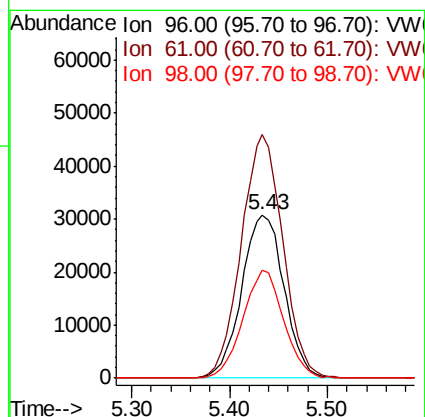
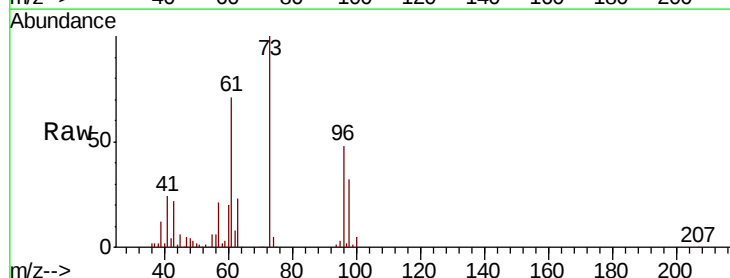
Tgt Ion: 96 Resp: 92734

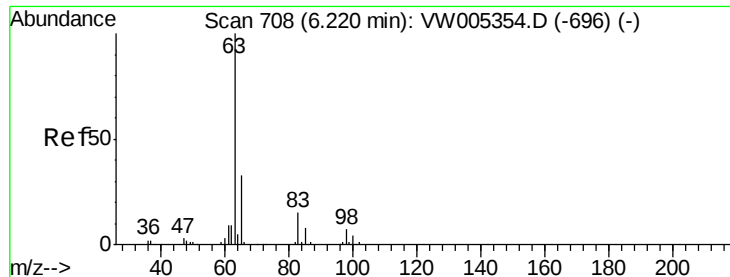
Ion Ratio Lower Upper

96 100

61 149.1 103.0 191.2

98 66.2 47.2 87.6

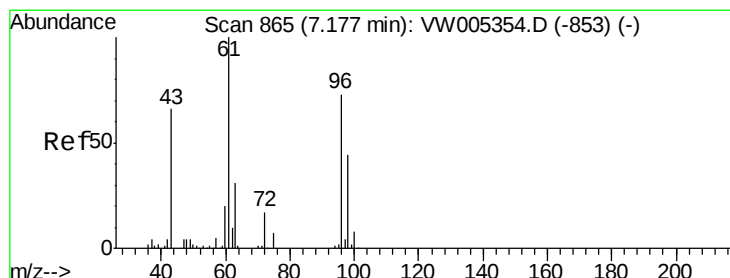
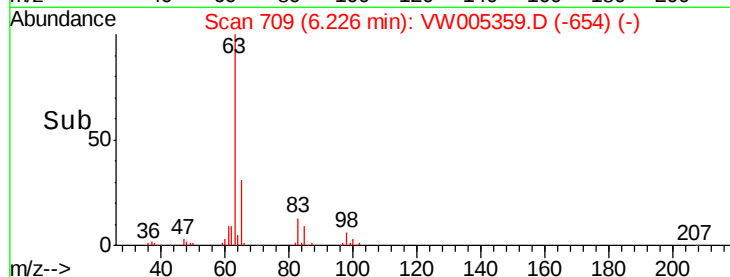
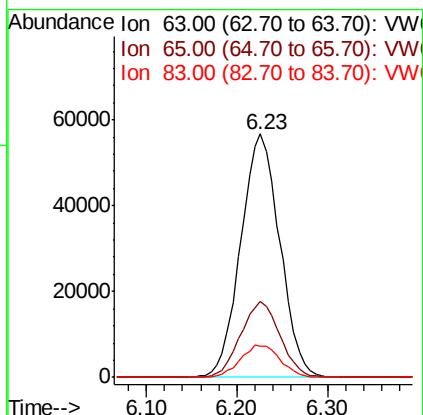
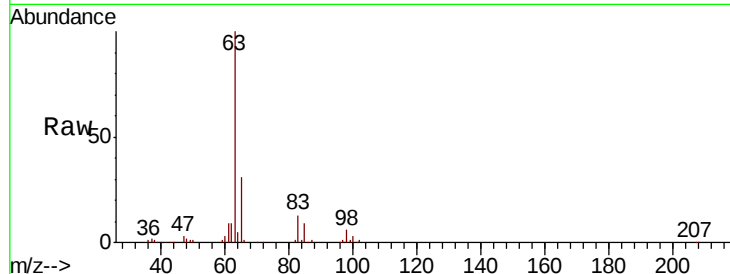




#19
 1,1-Dichloroethane
 Concen: 24.323 ug/L
 RT: 6.23 min Scan# 709
 Delta R.T. 0.01 min
 Lab File: VW005359.D
 Acq: 13 Sep 2018 19:15

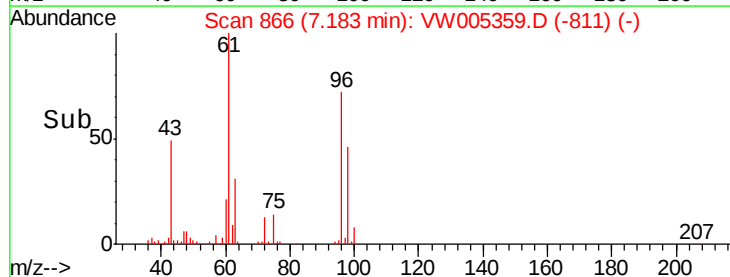
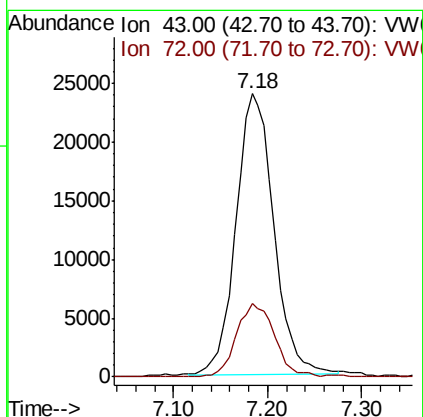
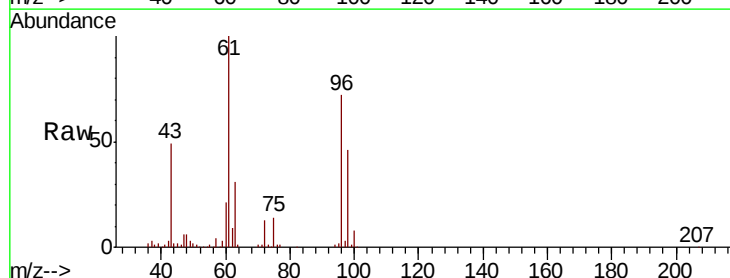
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02587

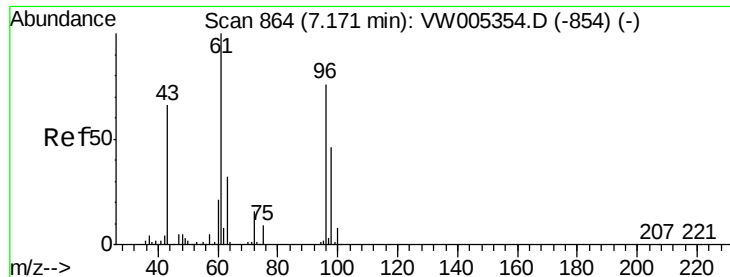
Tgt Ion: 63 Resp: 169001
 Ion Ratio Lower Upper
 63 100
 65 31.3 22.9 42.5
 83 12.9 10.4 19.2



#21
 2-Butanone
 Concen: 34.311 ug/L
 RT: 7.18 min Scan# 866
 Delta R.T. 0.01 min
 Lab File: VW005359.D
 Acq: 13 Sep 2018 19:15

Tgt Ion: 43 Resp: 67146
 Ion Ratio Lower Upper
 43 100
 72 25.4 11.8 35.4



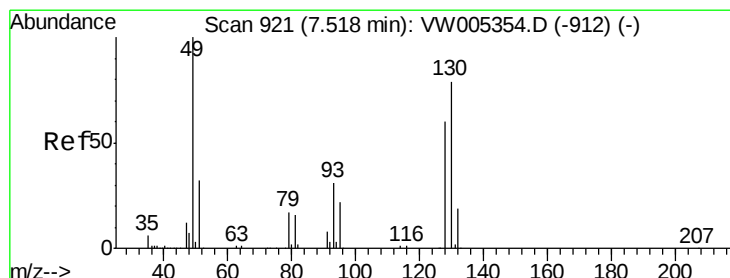
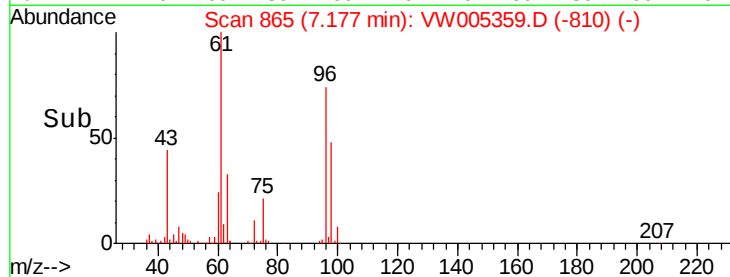
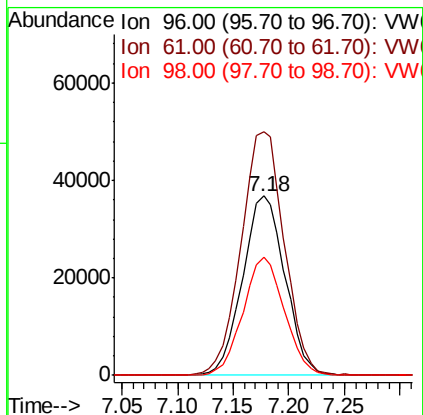
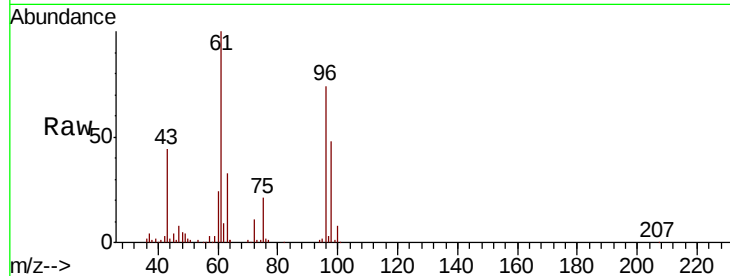


#22

cis-1,2-Dichloroethene
 Concen: 23.934 ug/L
 RT: 7.18 min Scan# 865
 Delta R.T. 0.01 min
 Lab File: VW005359.D
 Acq: 13 Sep 2018 19:15

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02587

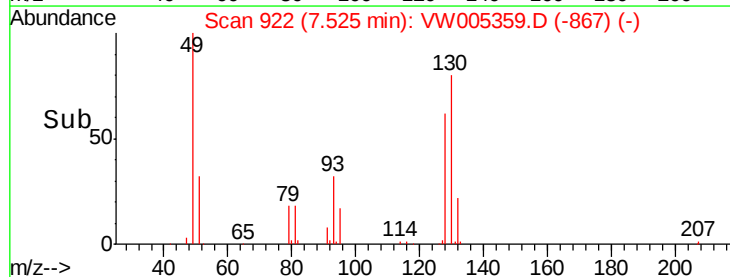
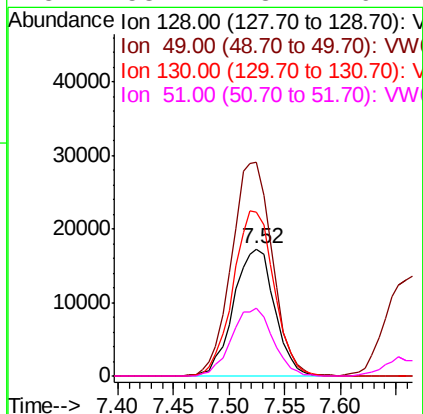
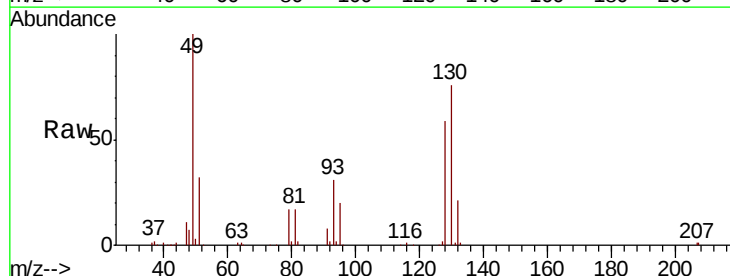
Tgt Ion: 96 Resp: 97126
 Ion Ratio Lower Upper
 96 100
 61 135.8 93.1 172.9
 98 65.8 42.4 78.6

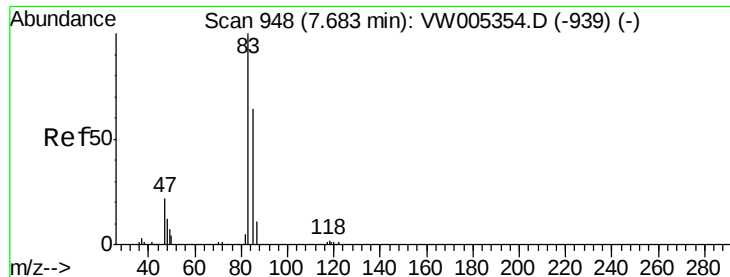


#23

Bromochloromethane
 Concen: 23.344 ug/L
 RT: 7.52 min Scan# 922
 Delta R.T. 0.01 min
 Lab File: VW005359.D
 Acq: 13 Sep 2018 19:15

Tgt Ion: 128 Resp: 44148
 Ion Ratio Lower Upper
 128 100
 49 168.3 118.2 219.6
 130 128.7 92.8 172.4
 51 53.4 43.1 64.7





#25

Chloroform

Concen: 24.086 ug/L

RT: 7.68 min Scan# 948

Delta R.T. 0.00 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

Instrument :

MSVOA_W

ClientSampleId :

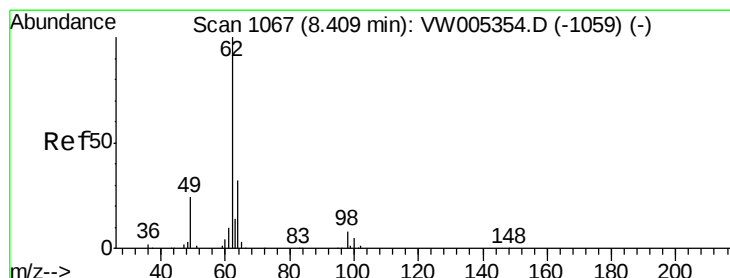
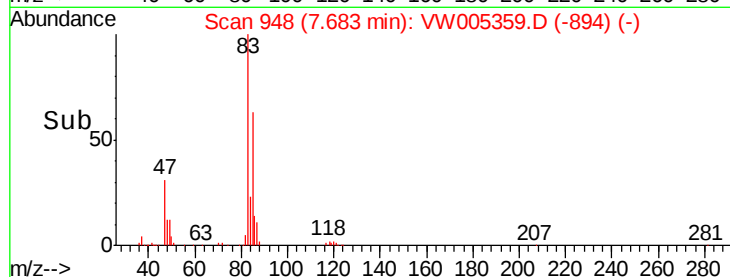
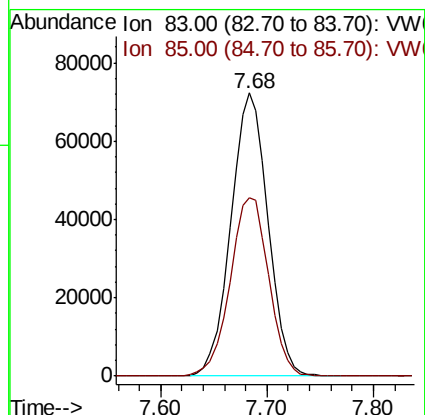
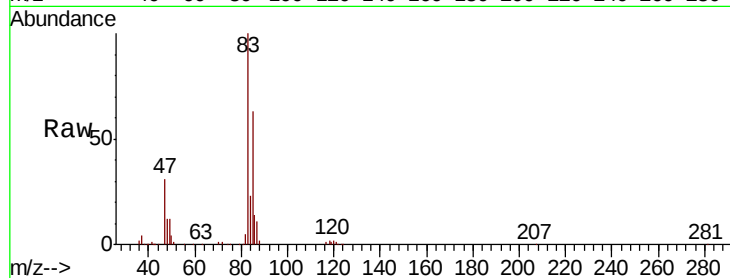
VSTD02587

Tgt Ion: 83 Resp: 175992

Ion Ratio Lower Upper

83 100

85 65.8 45.6 84.8



#27

1,2-Dichloroethane

Concen: 23.679 ug/L

RT: 8.41 min Scan# 1067

Delta R.T. 0.00 min

Lab File: VW005359.D

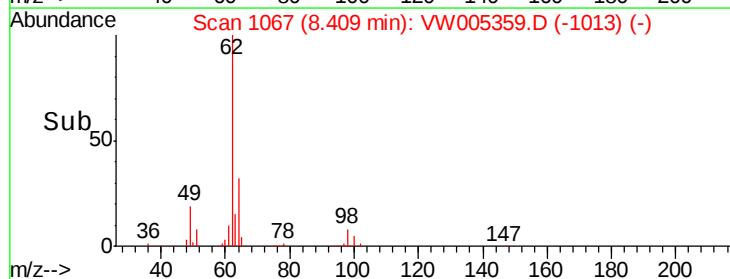
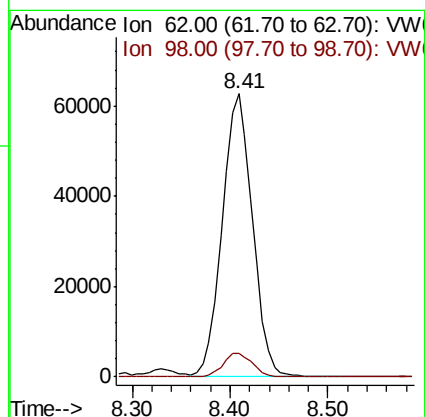
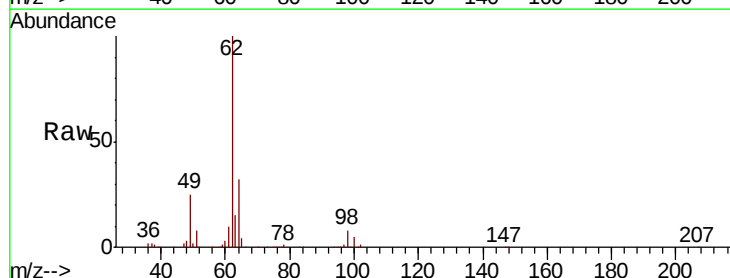
Acq: 13 Sep 2018 19:15

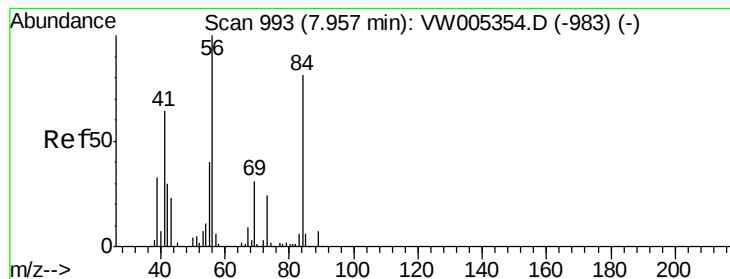
Tgt Ion: 62 Resp: 134305

Ion Ratio Lower Upper

62 100

98 8.2 6.0 9.0





#30

Cyclohexane

Concen: 24.231 ug/L

RT: 7.96 min Scan# 994

Delta R.T. 0.01 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

Instrument :

MSVOA_W

ClientSampleId :

VSTD02587

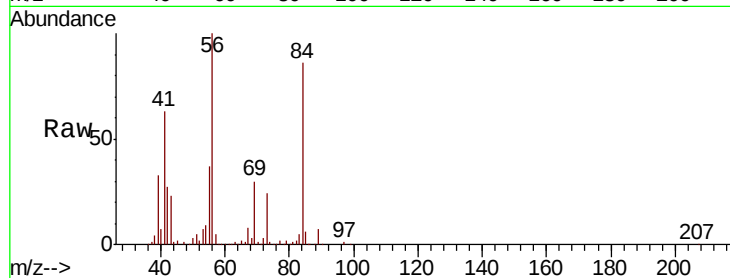
Tgt Ion: 56 Resp: 168103

Ion Ratio Lower Upper

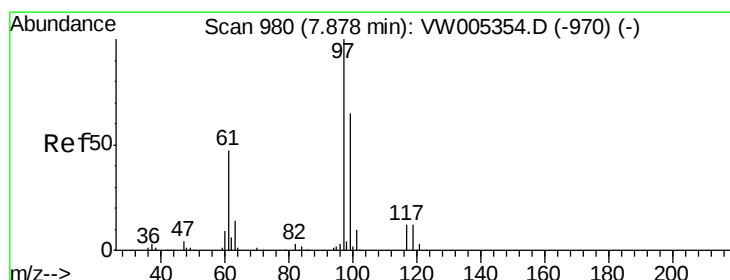
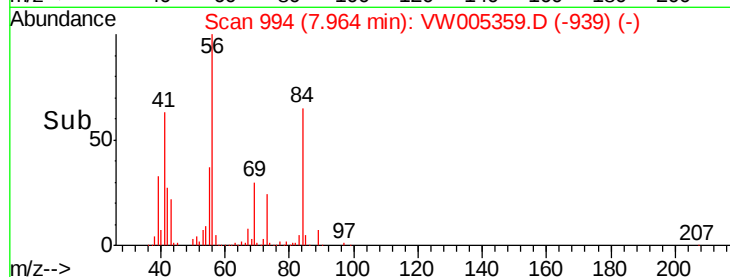
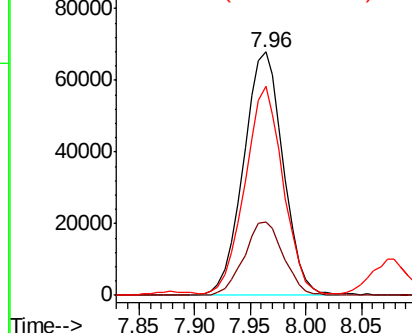
56 100

69 30.3 24.7 37.1

84 82.9 67.4 101.0



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW



#31

1,1,1-Trichloroethane

Concen: 24.049 ug/L

RT: 7.88 min Scan# 980

Delta R.T. 0.00 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

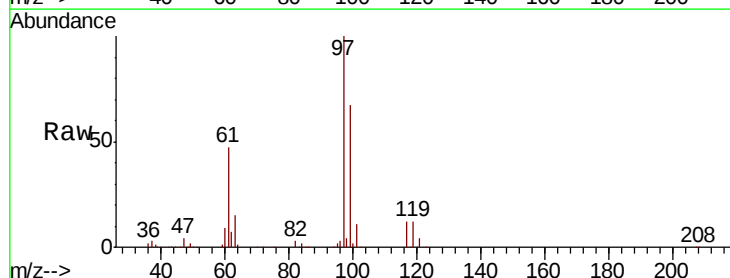
Tgt Ion: 97 Resp: 167995

Ion Ratio Lower Upper

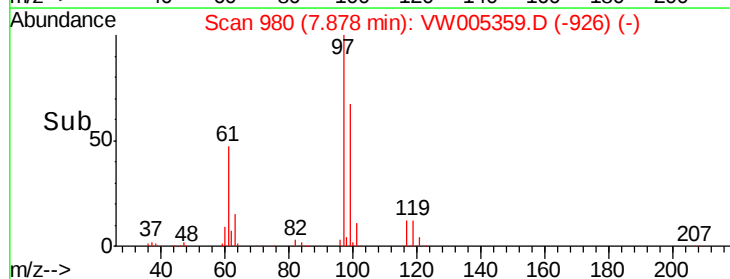
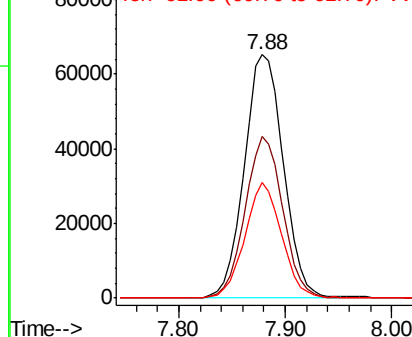
97 100

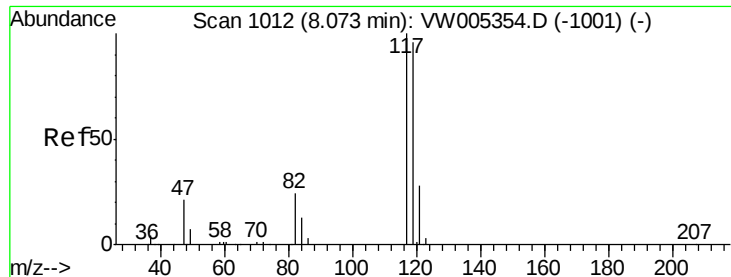
99 64.0 51.4 77.0

61 44.3 37.0 55.6



Abundance Ion 97.00 (96.70 to 97.70): VW
Ion 99.00 (98.70 to 99.70): VW
Ion 61.00 (60.70 to 61.70): VW





#32

Carbon tetrachloride

Concen: 23.514 ug/L

RT: 8.07 min Scan# 1012

Delta R.T. 0.00 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

Instrument :

MSVOA_W

ClientSampleId :

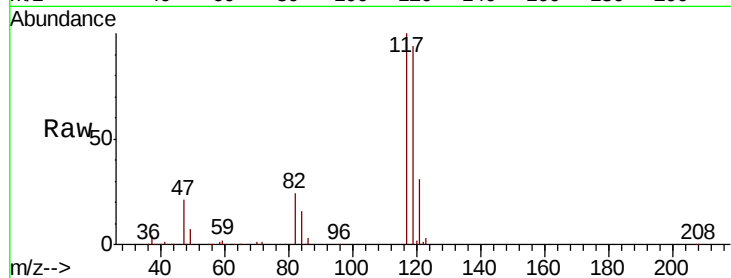
VSTD02587

Tgt Ion:117 Resp: 152390

Ion Ratio Lower Upper

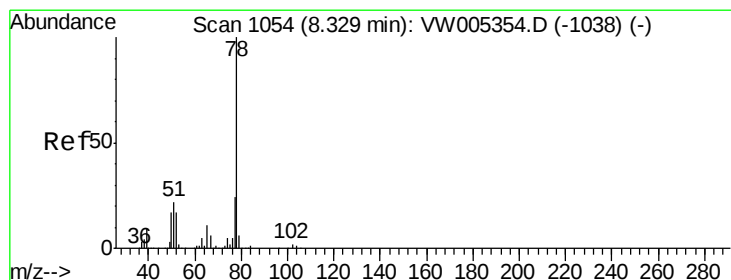
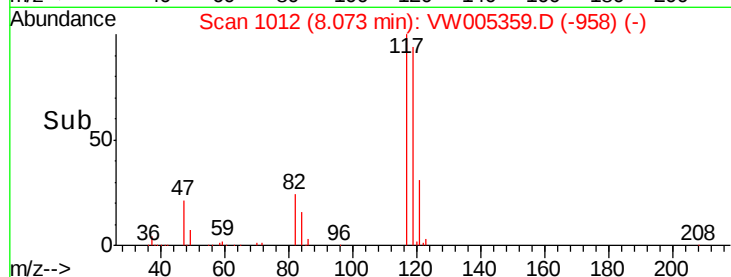
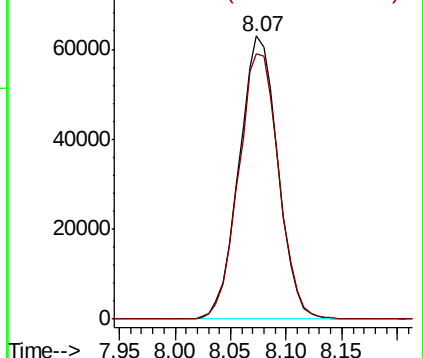
117 100

119 97.0 77.0 115.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 24.007 ug/L

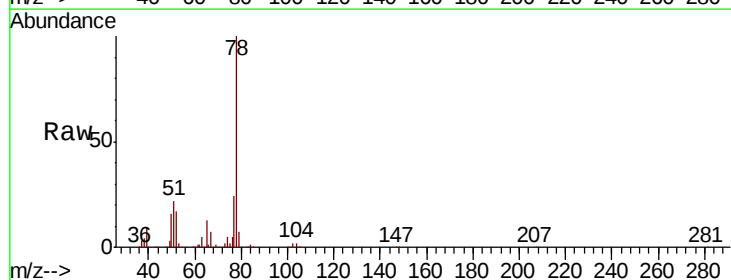
RT: 8.33 min Scan# 1054

Delta R.T. 0.00 min

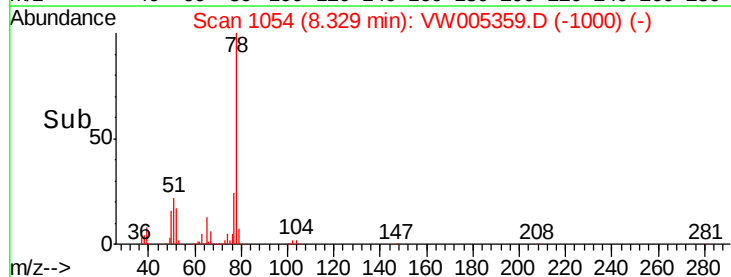
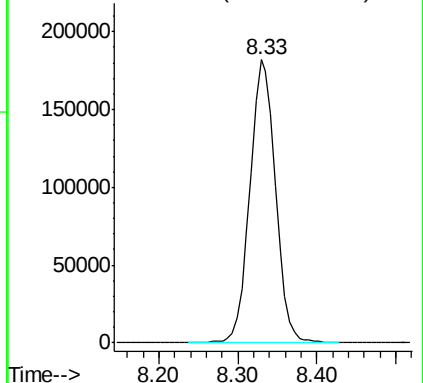
Lab File: VW005359.D

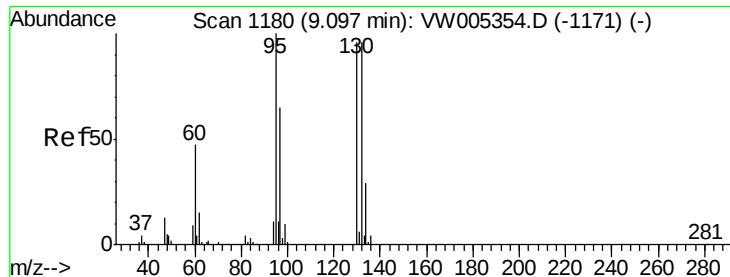
Acq: 13 Sep 2018 19:15

Tgt Ion: 78 Resp: 410939



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 23.511 ug/L

RT: 9.10 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

Instrument :

MSVOA_W

ClientSampleId :

VSTD02587

Tgt Ion: 95 Resp: 106814

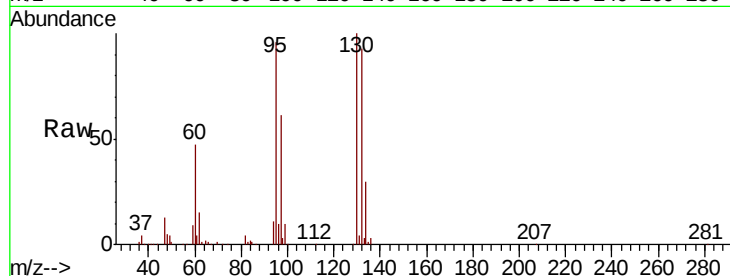
Ion Ratio Lower Upper

95 100

97 64.5 45.0 83.6

132 95.2 67.2 124.8

130 99.7 68.8 127.8



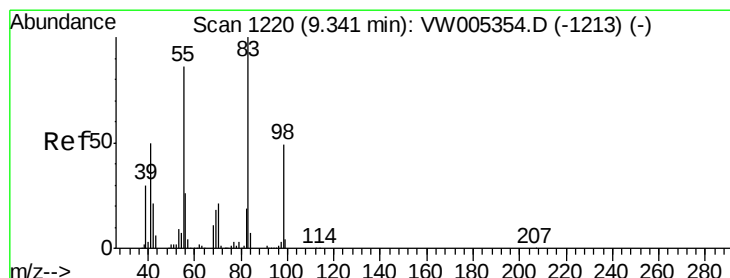
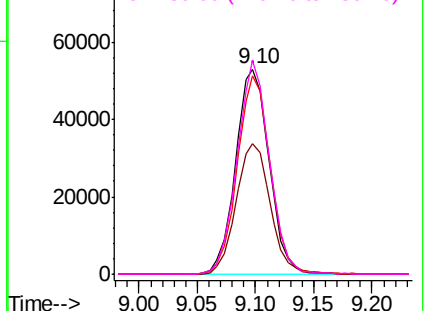
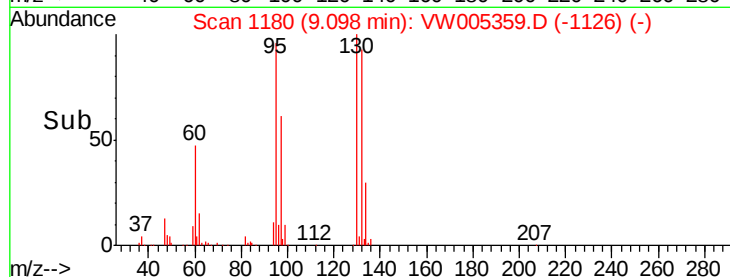
Abundance

Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 23.934 ug/L

RT: 9.34 min Scan# 1220

Delta R.T. 0.00 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

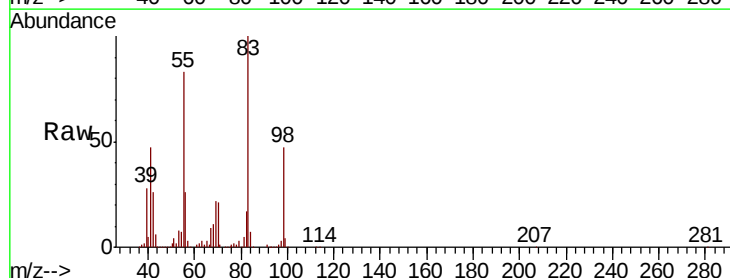
Tgt Ion: 83 Resp: 188730

Ion Ratio Lower Upper

83 100

55 81.4 66.4 99.6

98 46.5 37.3 55.9

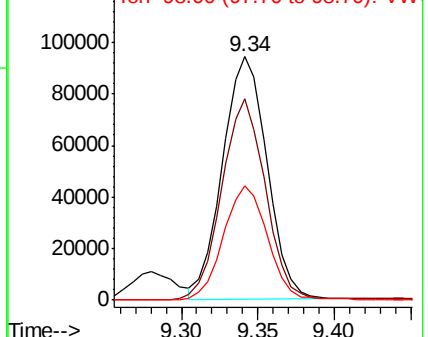
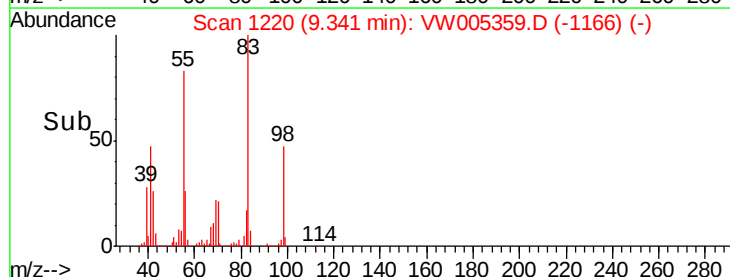


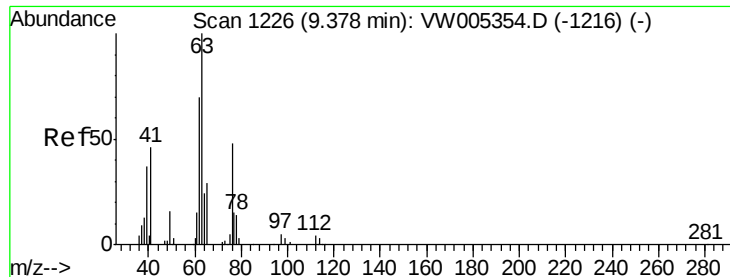
Abundance

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

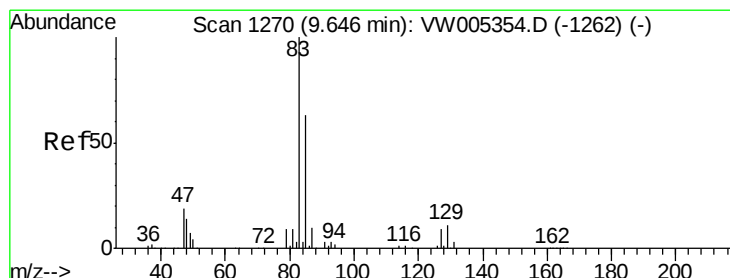
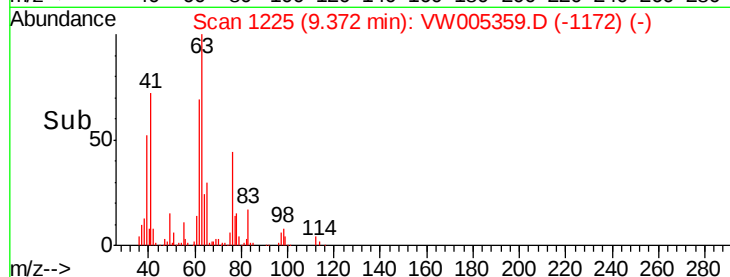
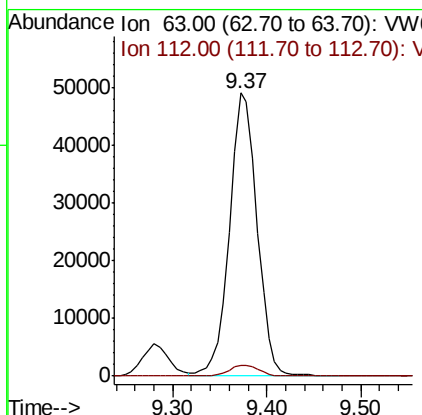
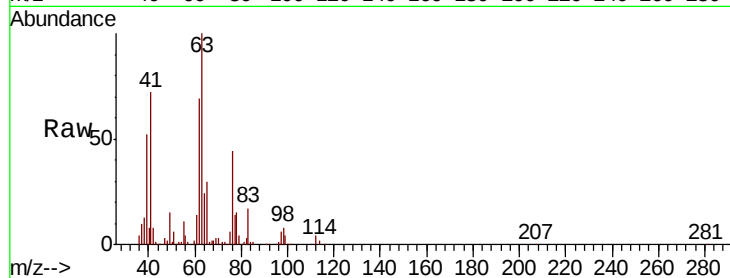




#40
 1,2-Dichloropropane
 Concen: 23.744 ug/L
 RT: 9.37 min Scan# 1225
 Delta R.T. -0.01 min
 Lab File: VW005359.D
 Acq: 13 Sep 2018 19:15

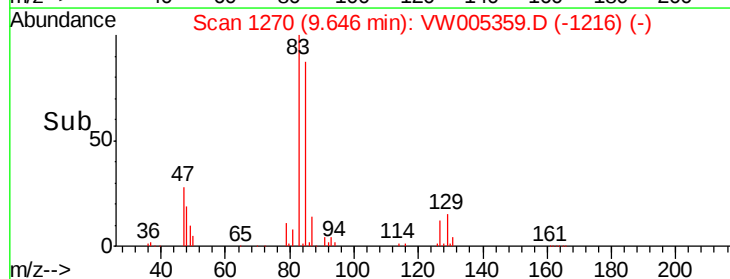
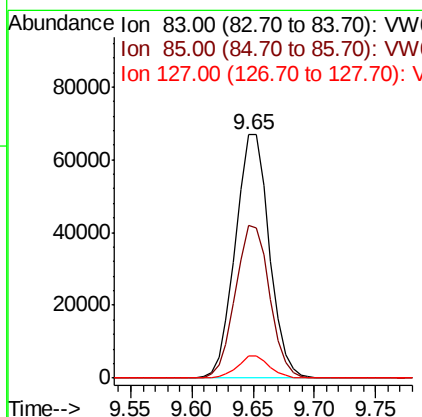
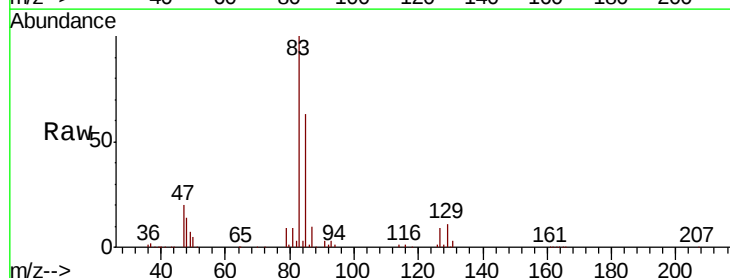
Instrument :
 MSVOA_W
 ClientSampled :
 VSTD02587

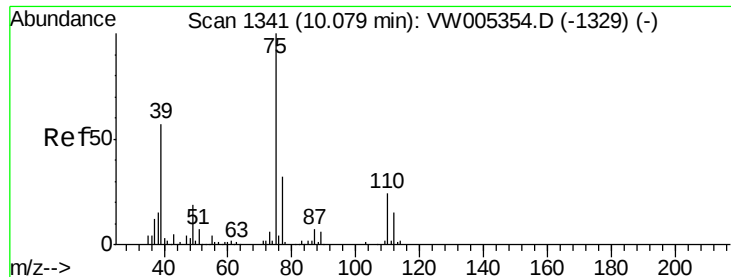
Tgt Ion: 63 Resp: 100336
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.4 5.2



#41
 Bromodichloromethane
 Concen: 23.863 ug/L
 RT: 9.65 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VW005359.D
 Acq: 13 Sep 2018 19:15

Tgt Ion: 83 Resp: 129266
 Ion Ratio Lower Upper
 83 100
 85 63.0 44.0 81.6
 127 9.0 7.5 11.3





#42

cis-1,3-Dichloropropene

Concen: 24.665 ug/L

RT: 10.08 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

Instrument :

MSVOA_W

ClientSampleId :

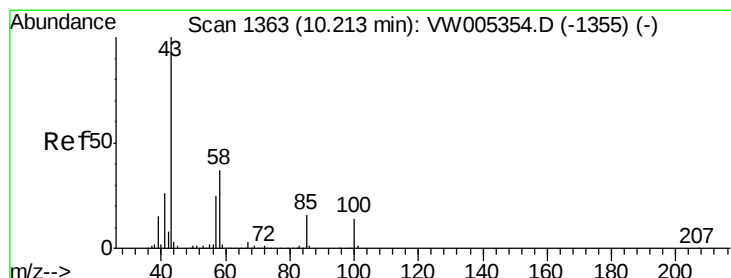
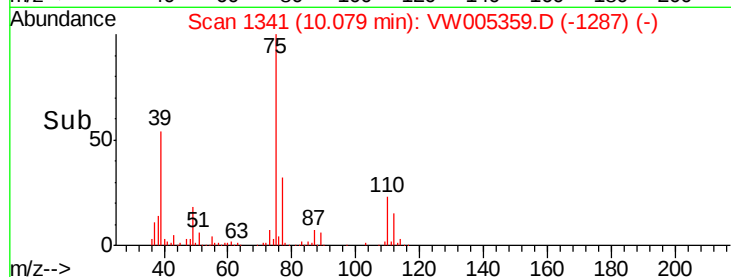
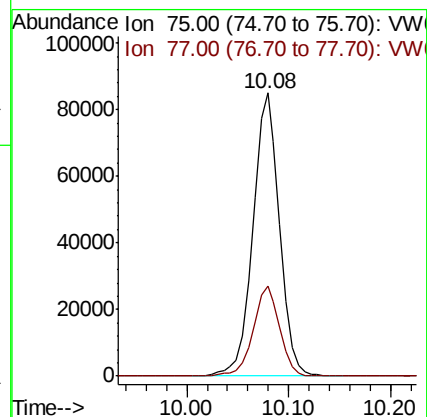
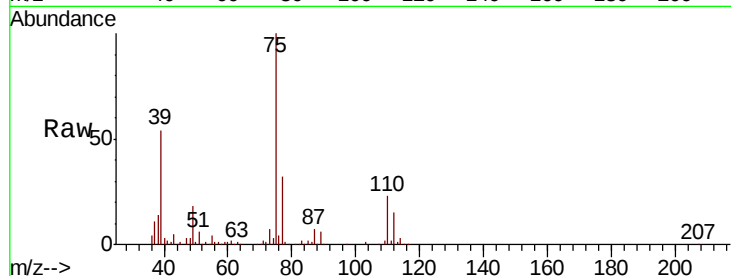
VSTD02587

Tgt Ion: 75 Resp: 153953

Ion Ratio Lower Upper

75 100

77 31.7 22.3 41.3



#43

4-Methyl-2-pentanone

Concen: 40.133 ug/L

RT: 10.22 min Scan# 1364

Delta R.T. 0.01 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

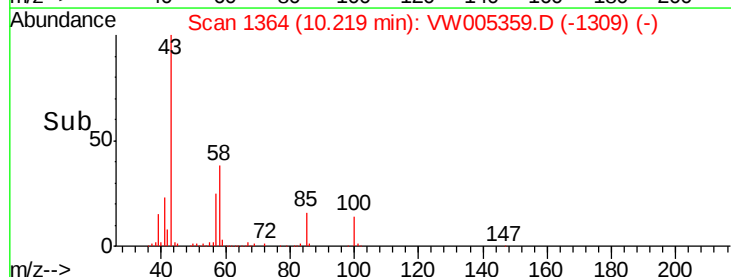
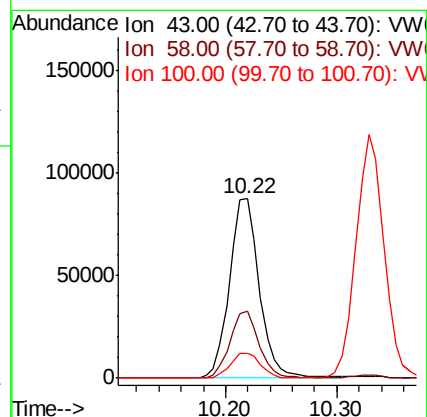
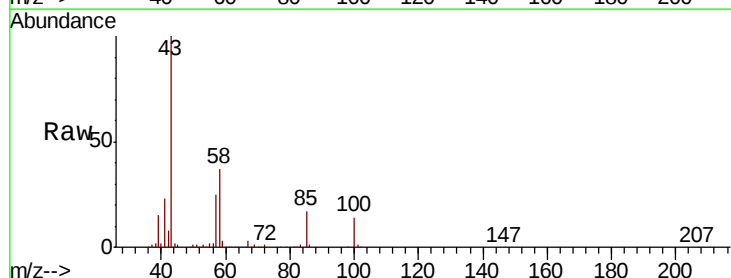
Tgt Ion: 43 Resp: 162142

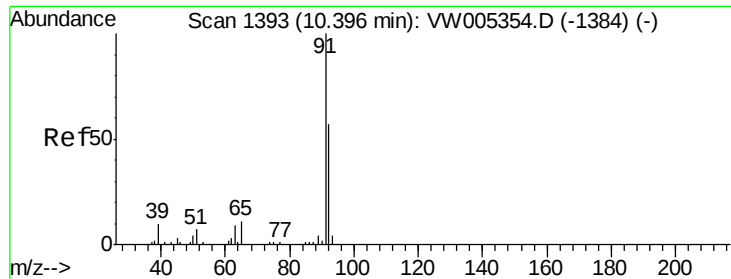
Ion Ratio Lower Upper

43 100

58 36.2 29.8 44.8

100 14.2 11.4 17.0





#44

Toluene

Concen: 24.547 ug/L

RT: 10.40 min Scan# 1393

Delta R.T. 0.00 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

Instrument :

MSVOA_W

ClientSampleId :

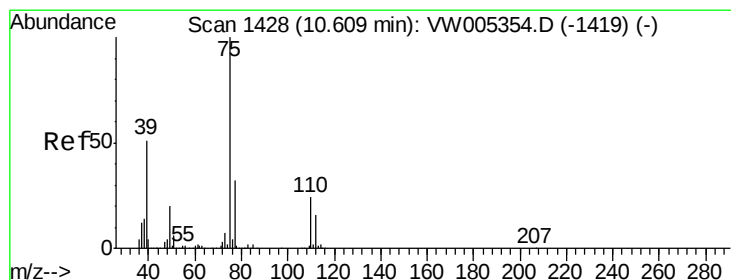
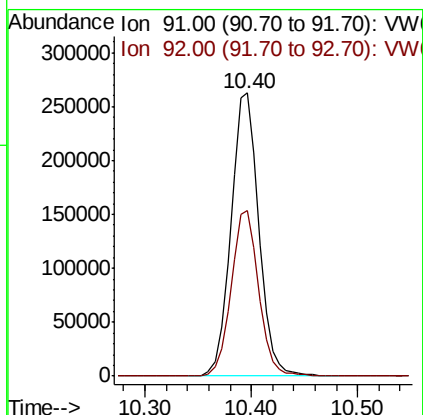
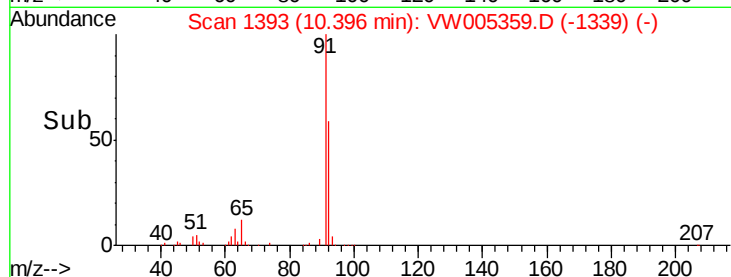
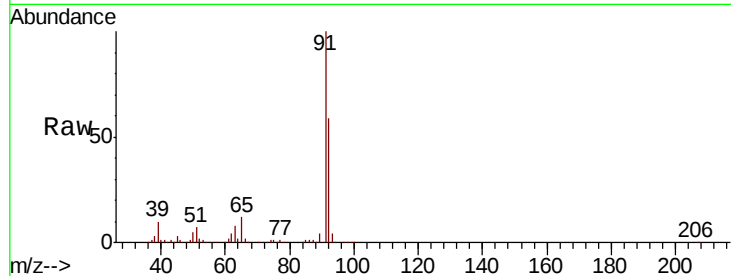
VSTD02587

Tgt Ion: 91 Resp: 481438

Ion Ratio Lower Upper

91 100

92 58.5 39.8 74.0



#45

trans-1,3-Dichloropropene

Concen: 24.356 ug/L

RT: 10.61 min Scan# 1428

Delta R.T. 0.00 min

Lab File: VW005359.D

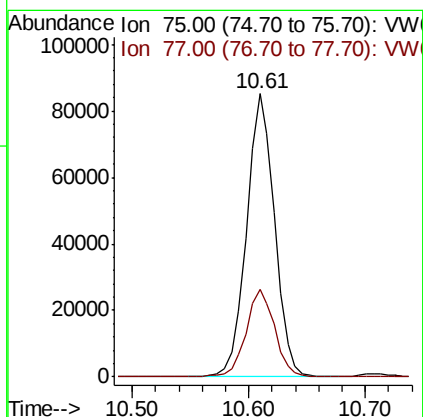
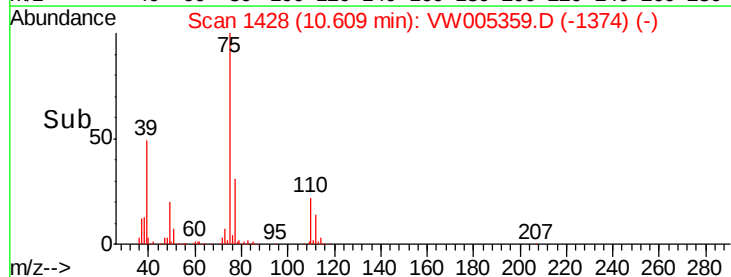
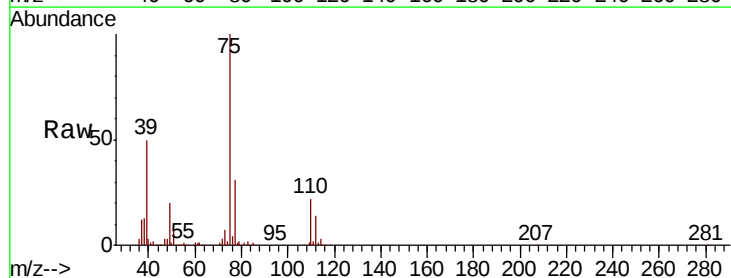
Acq: 13 Sep 2018 19:15

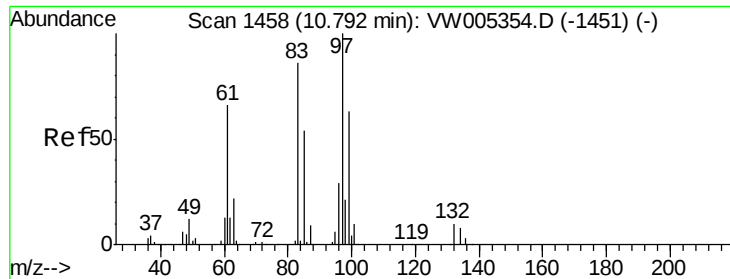
Tgt Ion: 75 Resp: 142434

Ion Ratio Lower Upper

75 100

77 30.7 22.3 41.3

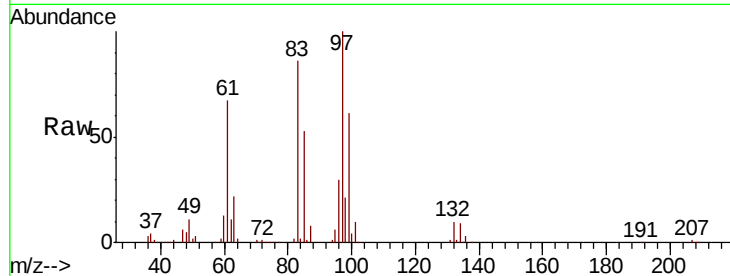




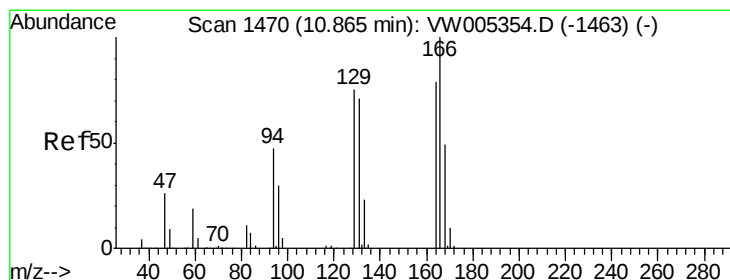
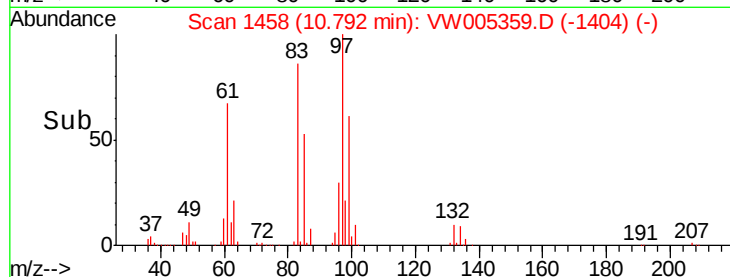
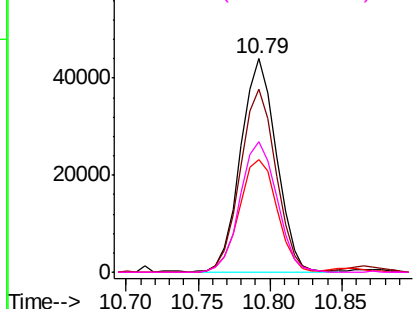
#46
 1,1,2-Trichloroethane
 Concen: 22.946 ug/L
 RT: 10.79 min Scan# 1458
 Delta R.T. 0.00 min
 Lab File: VW005359.D
 Acq: 13 Sep 2018 19:15

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02587

Tgt Ion: 97 Resp: 76113
 Ion Ratio Lower Upper
 97 100
 83 85.7 60.2 111.8
 85 52.7 37.9 70.5
 99 61.2 44.5 82.7

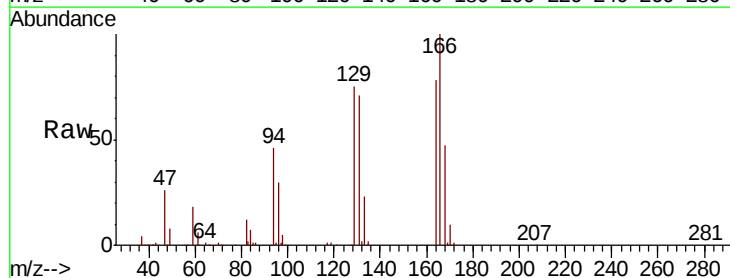


Abundance Ion 97.00 (96.70 to 97.70): VW
 Ion 83.00 (82.70 to 83.70): VW
 Ion 85.00 (84.70 to 85.70): VW
 Ion 99.00 (98.70 to 99.70): VW

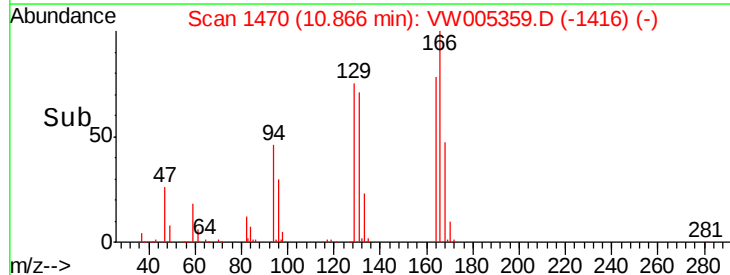
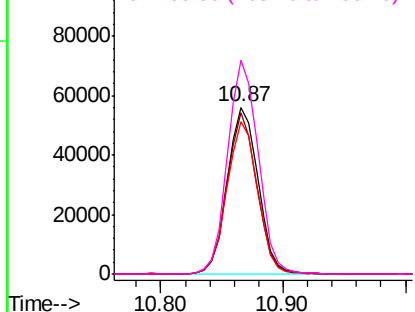


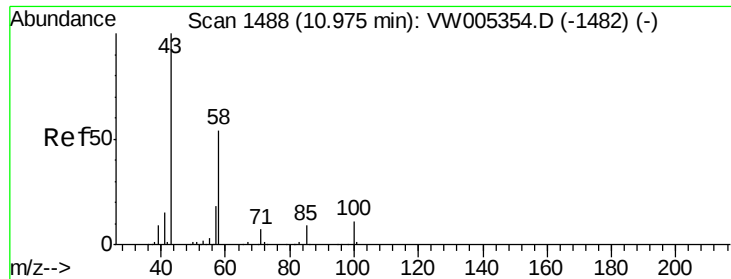
#47
 Tetrachloroethene
 Concen: 23.809 ug/L
 RT: 10.87 min Scan# 1470
 Delta R.T. 0.00 min
 Lab File: VW005359.D
 Acq: 13 Sep 2018 19:15

Tgt Ion: 164 Resp: 97939
 Ion Ratio Lower Upper
 164 100
 129 96.4 66.2 123.0
 131 91.1 63.6 118.0
 166 128.0 88.9 165.1



Abundance Ion 164.00 (163.70 to 164.70): V
 Ion 129.00 (128.70 to 129.70): V
 Ion 131.00 (130.70 to 131.70): V
 Ion 166.00 (165.70 to 166.70): V

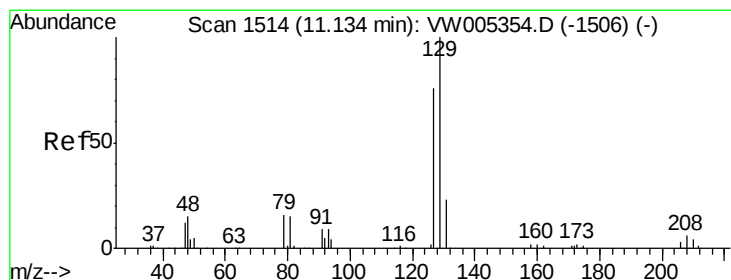
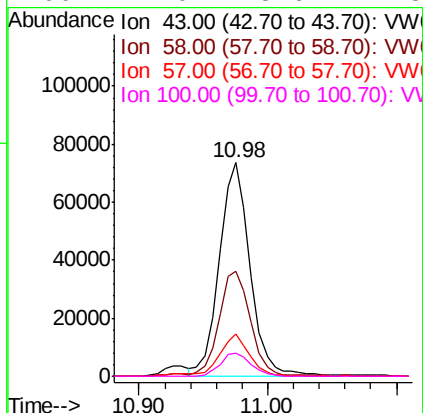
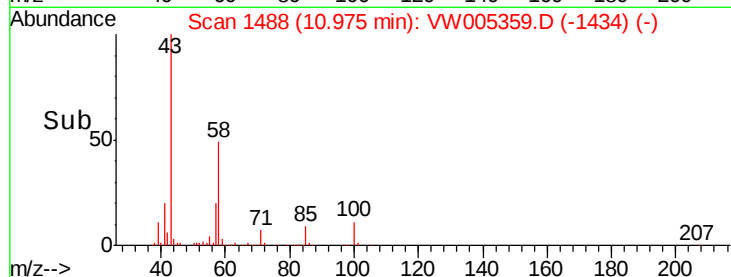
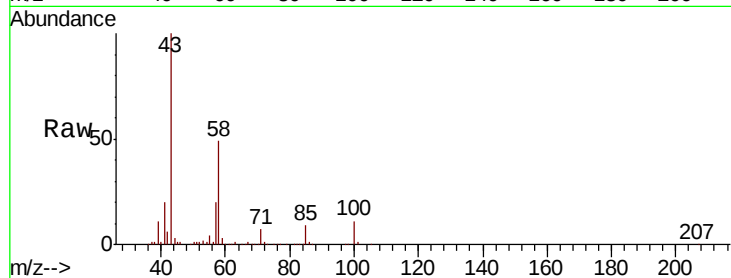




#49
2-Hexanone
Concen: 41.538 ug/L
RT: 10.98 min Scan# 1488
Delta R.T. 0.00 min
Lab File: VW005359.D
Acq: 13 Sep 2018 19:15

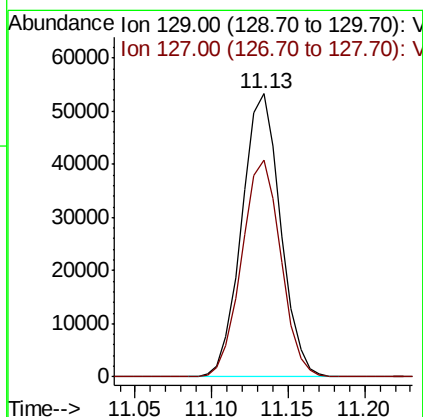
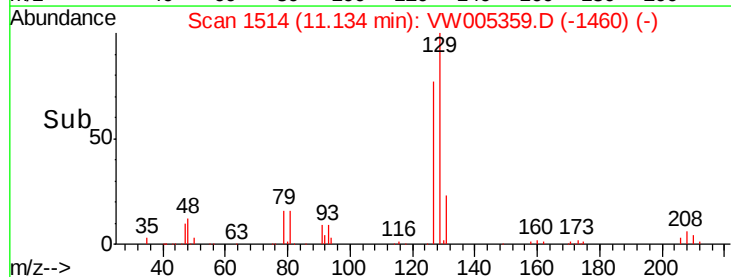
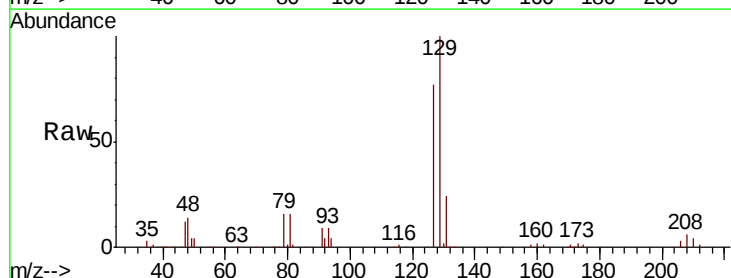
Instrument :
MSVOA_W
ClientSampled :
VSTD02587

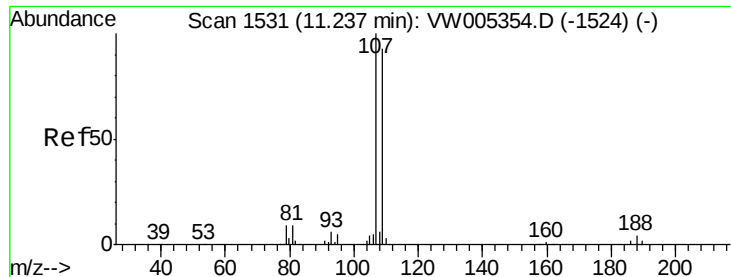
Tgt Ion: 43 Resp: 123373
Ion Ratio Lower Upper
43 100
58 50.3 41.6 62.4
57 18.5 15.0 22.6
100 11.0 8.6 12.8



#50
Dibromochloromethane
Concen: 23.726 ug/L
RT: 11.13 min Scan# 1514
Delta R.T. 0.00 min
Lab File: VW005359.D
Acq: 13 Sep 2018 19:15

Tgt Ion: 129 Resp: 94014
Ion Ratio Lower Upper
129 100
127 76.6 53.1 98.5





#51

1,2-Dibromoethane

Concen: 22.054 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. 0.00 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

Instrument :

MSVOA_W

ClientSampled :

VSTD02587

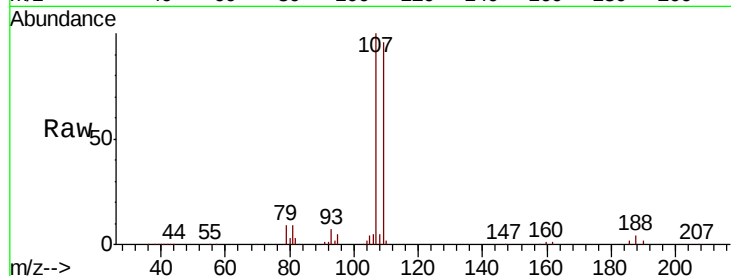
Tgt Ion:107 Resp: 71802

Ion Ratio Lower Upper

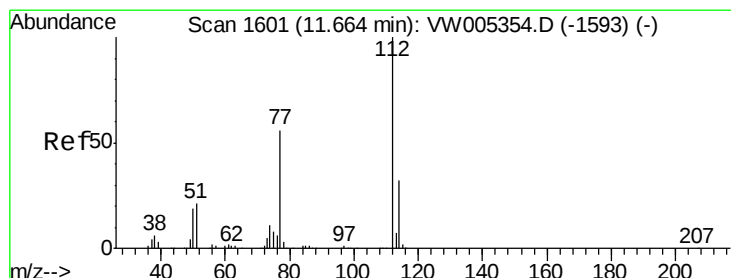
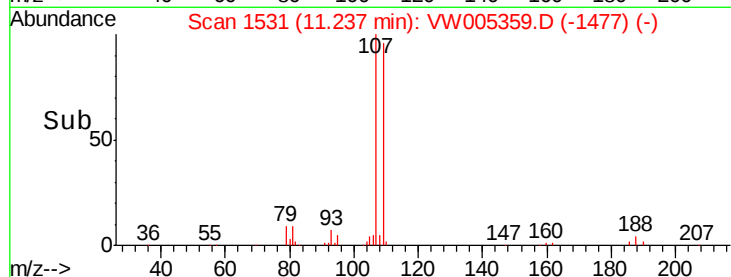
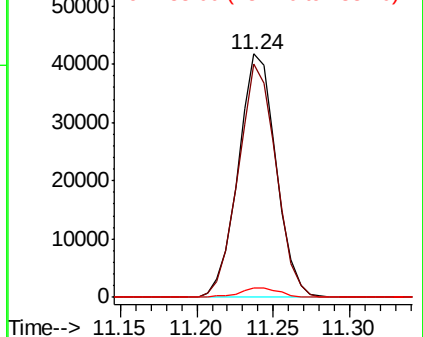
107 100

109 95.8 64.9 120.5

188 4.0 3.1 4.7



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 24.247 ug/L

RT: 11.66 min Scan# 1601

Delta R.T. 0.00 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

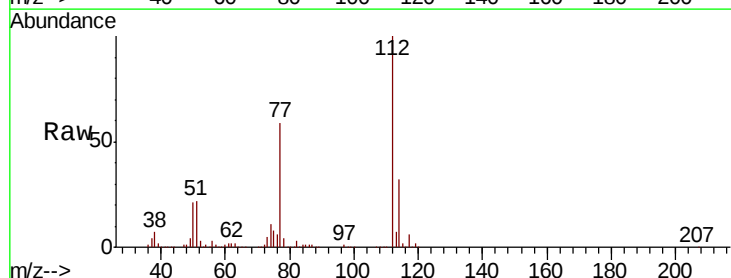
Tgt Ion:112 Resp: 310320

Ion Ratio Lower Upper

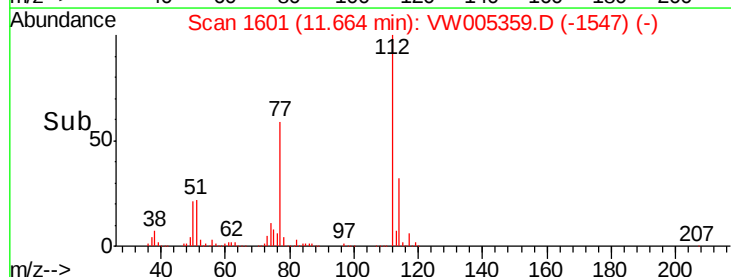
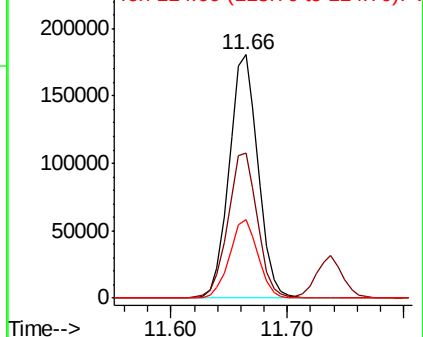
112 100

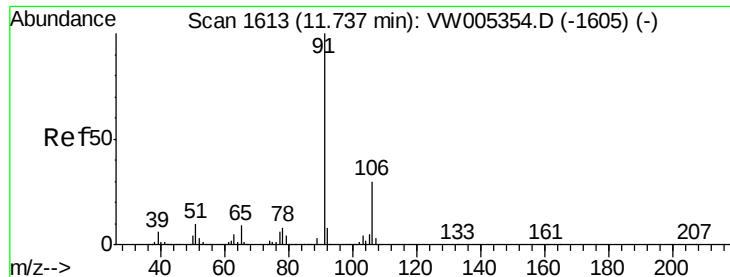
77 59.4 45.1 67.7

114 32.4 22.5 41.7



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 77.00 (76.70 to 77.70): V
Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 24.405 ug/L

RT: 11.74 min Scan# 1613

Delta R.T. 0.00 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

Instrument :

MSVOA_W

ClientSampleId :

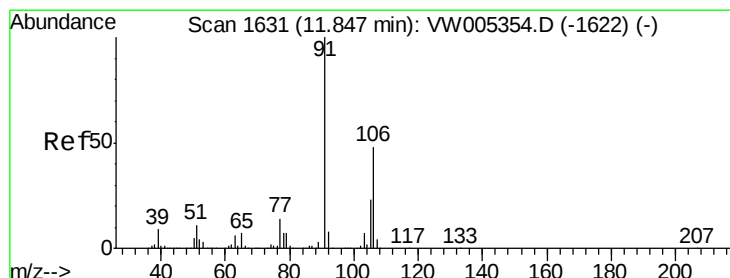
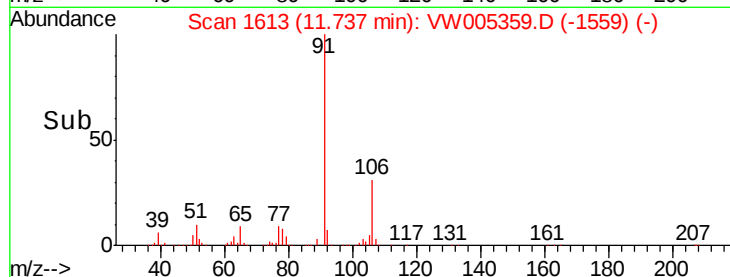
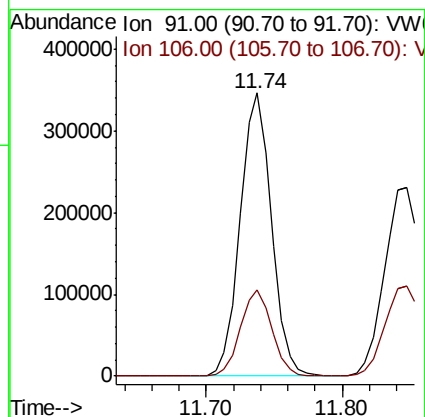
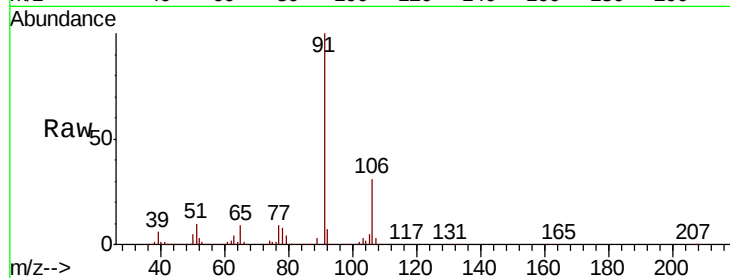
VSTD02587

Tgt Ion: 91 Resp: 556692

Ion Ratio Lower Upper

91 100

106 30.5 20.8 38.6



#54

m,p-Xylene

Concen: 24.914 ug/L

RT: 11.85 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VW005359.D

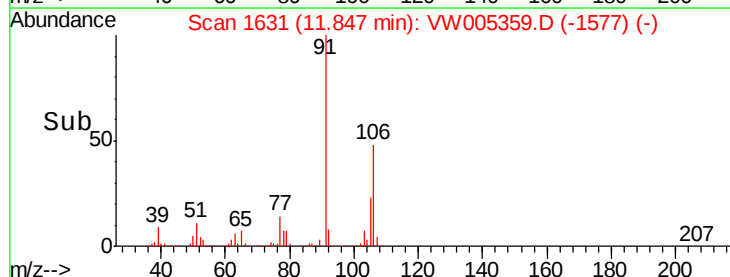
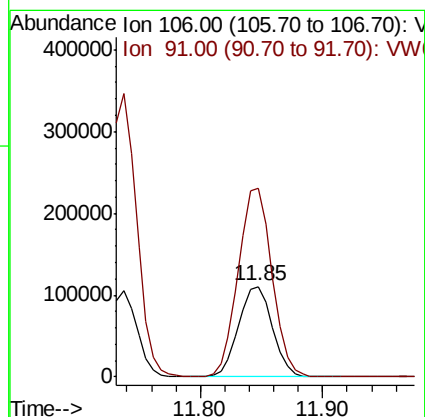
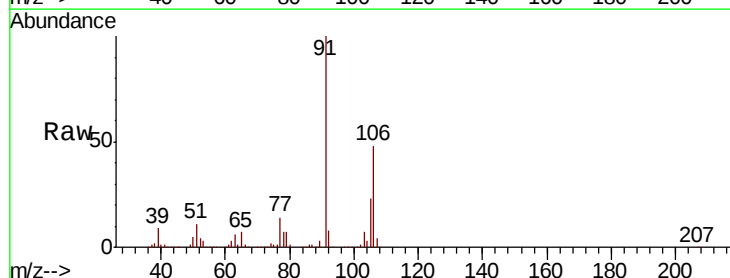
Acq: 13 Sep 2018 19:15

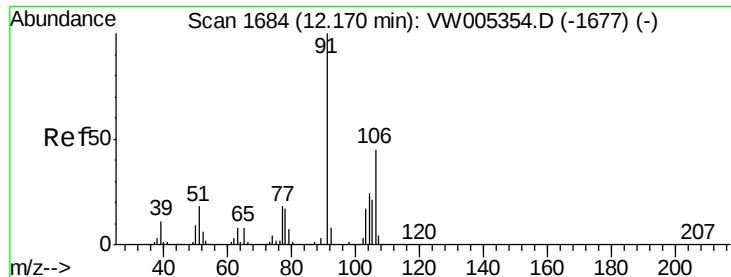
Tgt Ion: 106 Resp: 212789

Ion Ratio Lower Upper

106 100

91 208.9 146.4 271.8

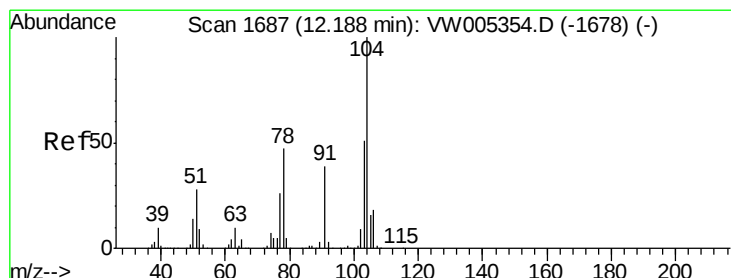
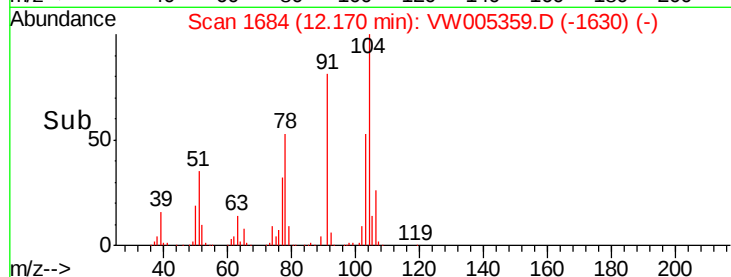
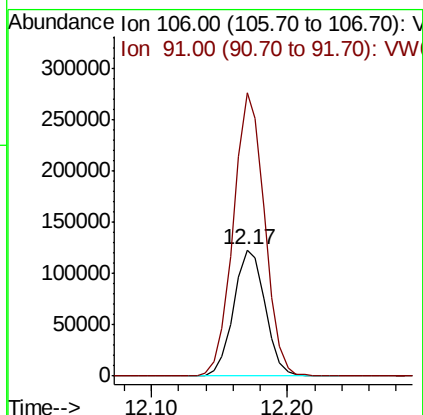
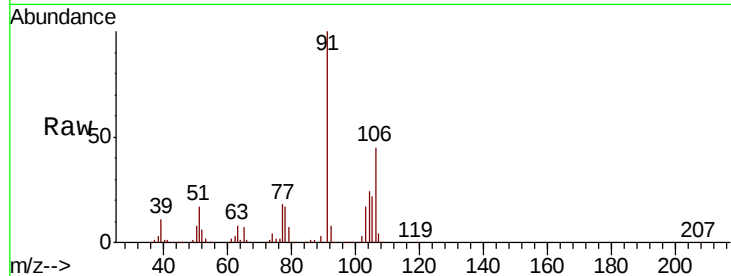




#55
o-xylene
Concen: 24.922 ug/L
RT: 12.17 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VW005359.D
Acq: 13 Sep 2018 19:15

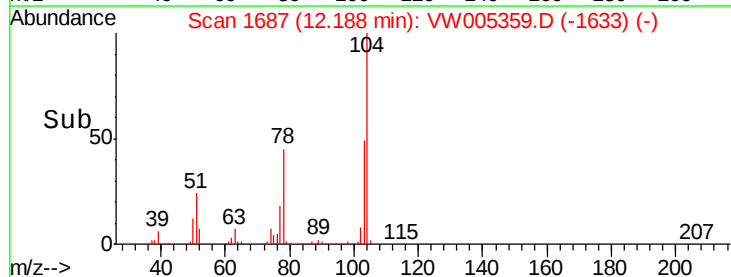
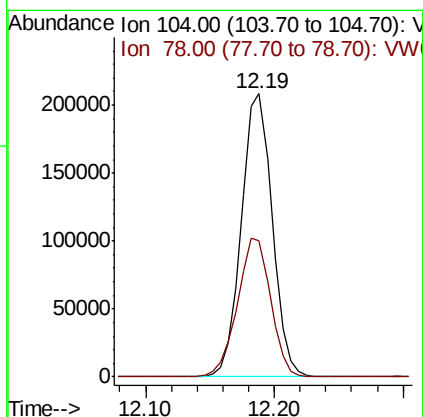
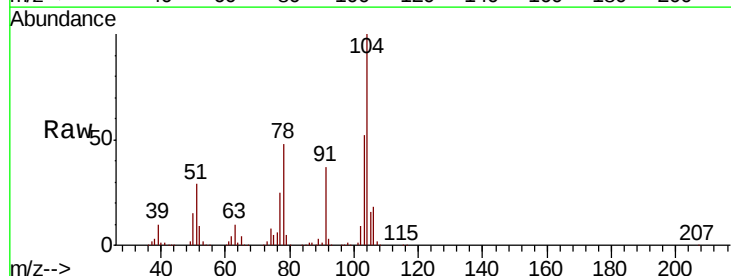
Instrument :
MSVOA_W
ClientSampled :
VSTD02587

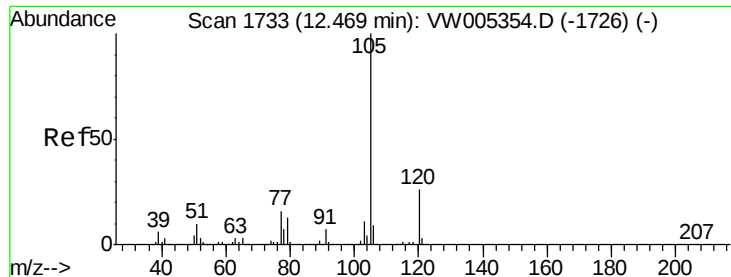
Tgt Ion:106 Resp: 199881
Ion Ratio Lower Upper
106 100
91 223.7 155.1 288.1



#56
Styrene
Concen: 24.898 ug/L
RT: 12.19 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VW005359.D
Acq: 13 Sep 2018 19:15

Tgt Ion:104 Resp: 344663
Ion Ratio Lower Upper
104 100
78 47.9 32.8 60.8





#57

Isopropylbenzene

Concen: 24.757 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

Instrument :

MSVOA_W

ClientSampleId :

VSTD02587

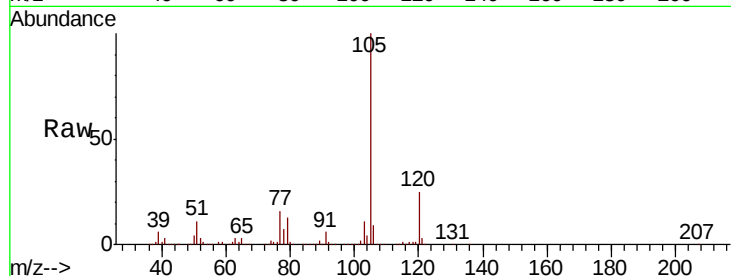
Tgt Ion: 105 Resp: 551544

Ion Ratio Lower Upper

105 100

120 25.6 20.3 30.5

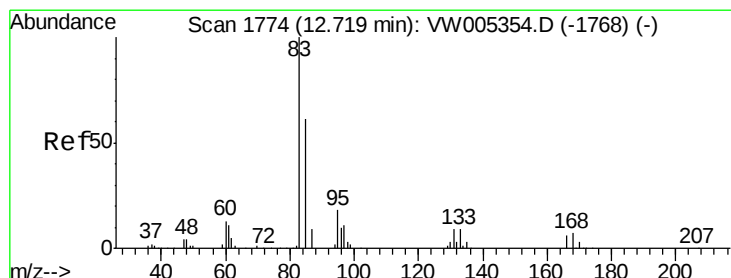
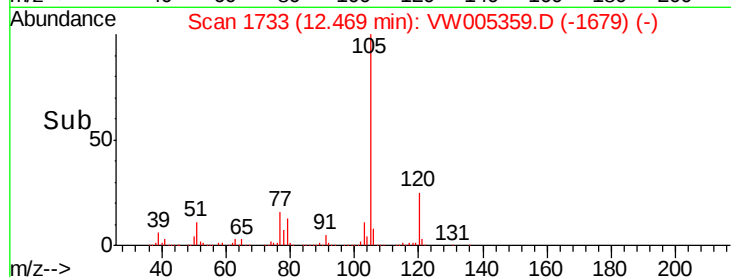
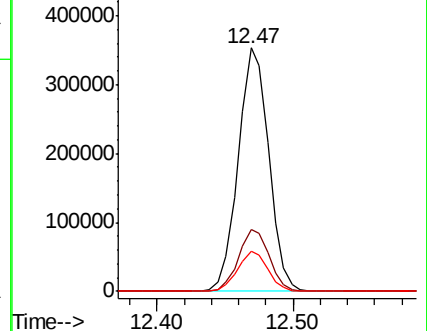
77 16.3 12.9 19.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 21.598 ug/L

RT: 12.72 min Scan# 1774

Delta R.T. 0.00 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

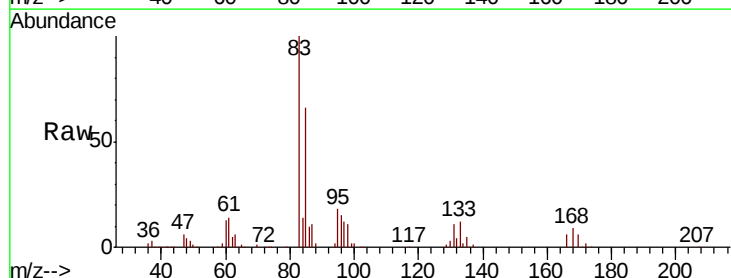
Tgt Ion: 83 Resp: 98502

Ion Ratio Lower Upper

83 100

85 66.3 43.2 80.2

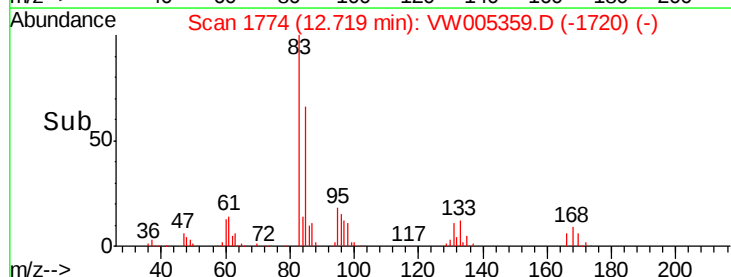
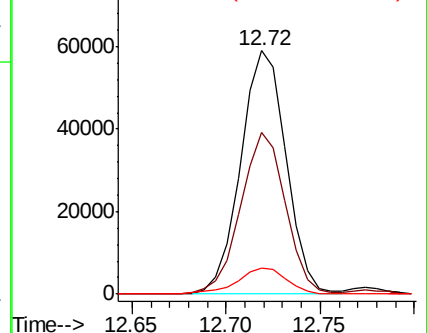
131 10.8 7.9 11.9

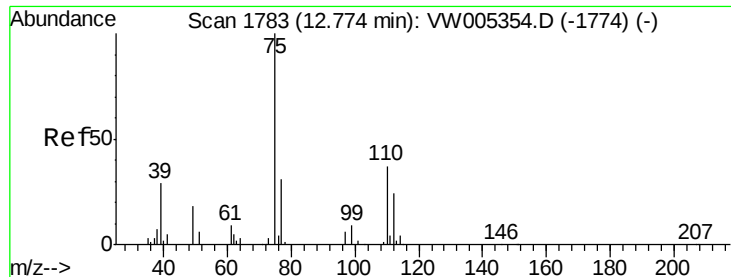


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 20.810 ug/L

RT: 12.77 min Scan# 1783

Delta R.T. 0.00 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

Instrument :

MSVOA_W

ClientSampleId :

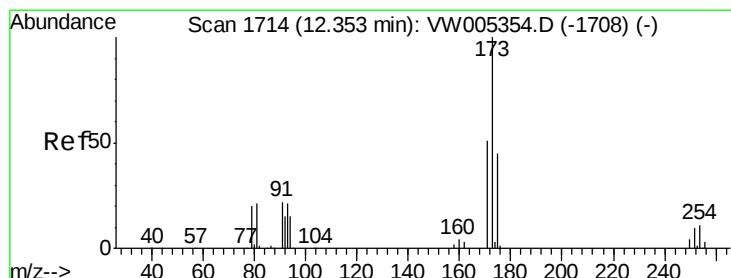
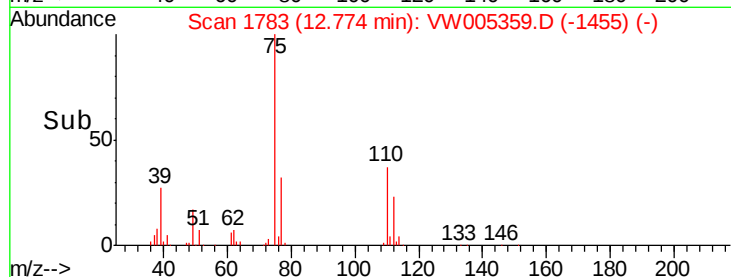
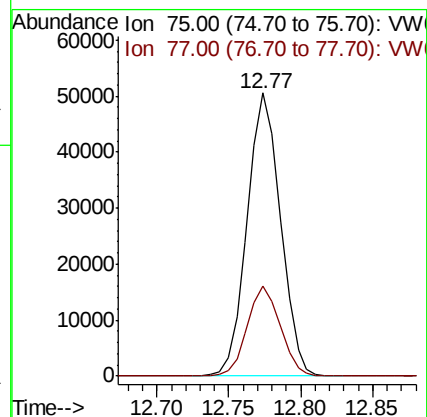
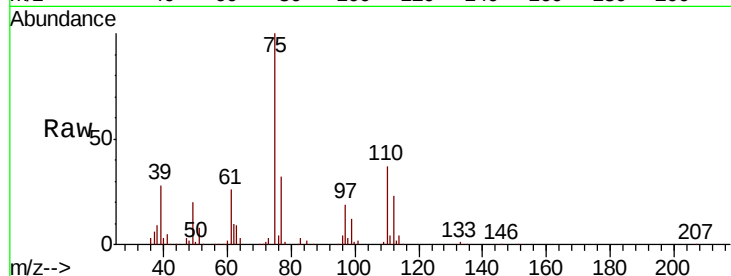
VSTD02587

Tgt Ion: 75 Resp: 81121

Ion Ratio Lower Upper

75 100

77 31.7 25.7 38.5



#62

Bromoform

Concen: 21.983 ug/L

RT: 12.35 min Scan# 1714

Delta R.T. 0.00 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

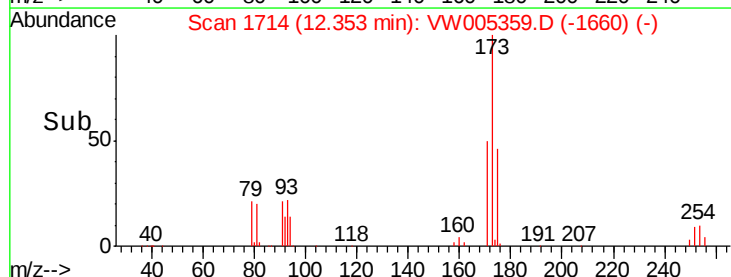
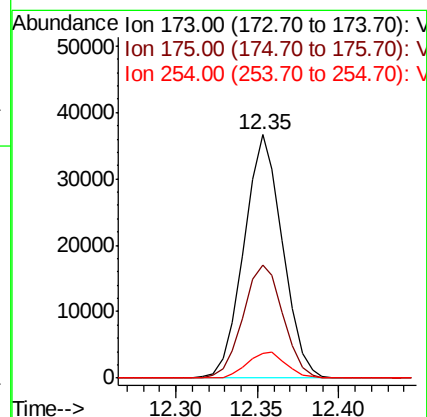
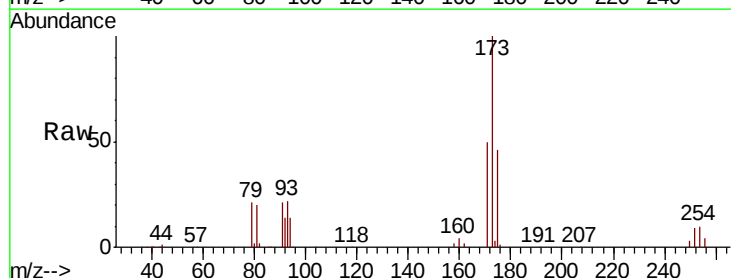
Tgt Ion: 173 Resp: 60339

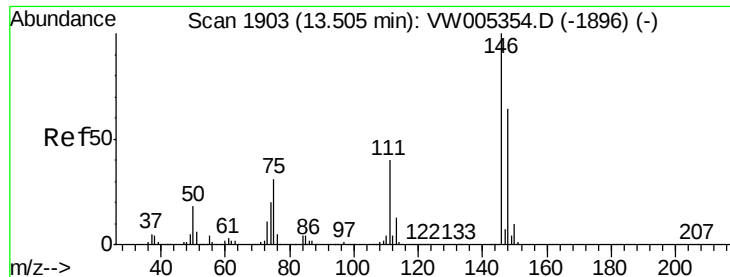
Ion Ratio Lower Upper

173 100

175 48.2 37.8 56.8

254 10.8 8.6 13.0

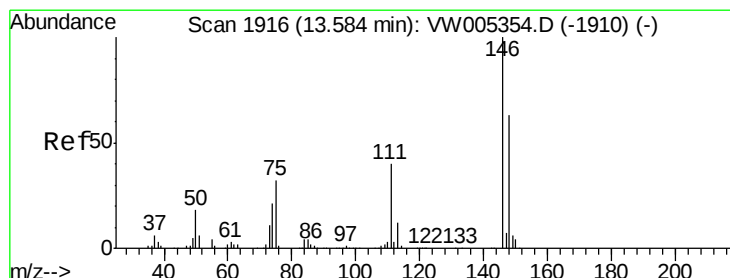
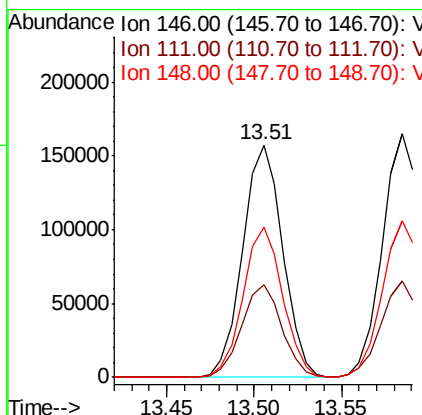
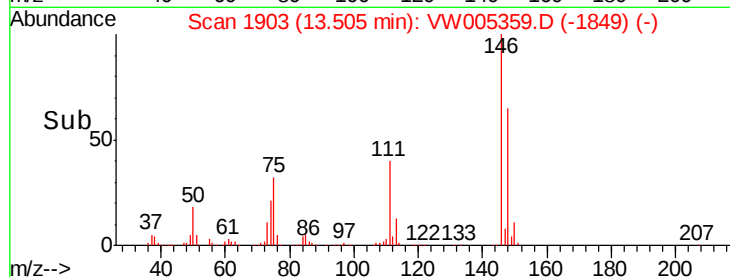
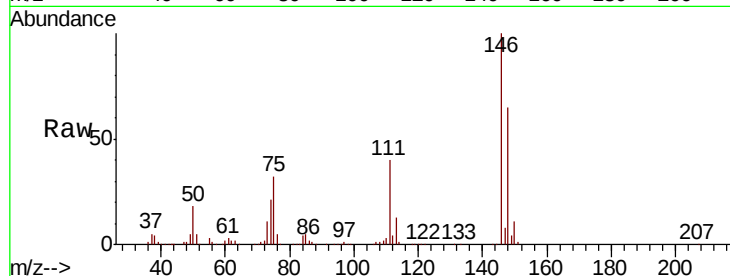




#63
 1,3-Dichlorobenzene
 Concen: 24.025 ug/L
 RT: 13.51 min Scan# 1903
 Delta R.T. 0.00 min
 Lab File: VW005359.D
 Acq: 13 Sep 2018 19:15

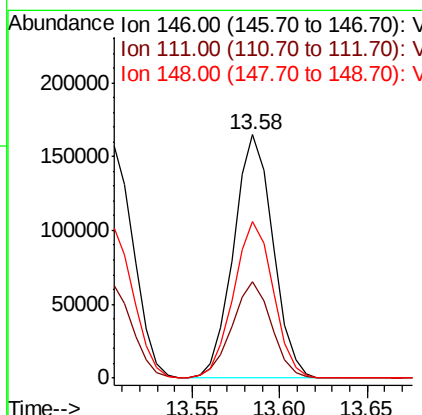
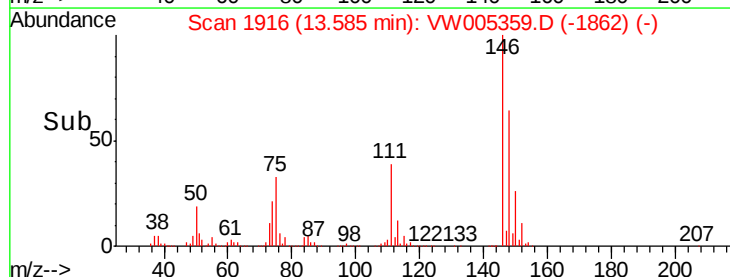
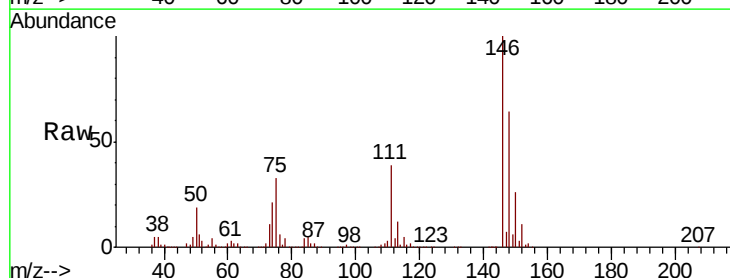
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02587

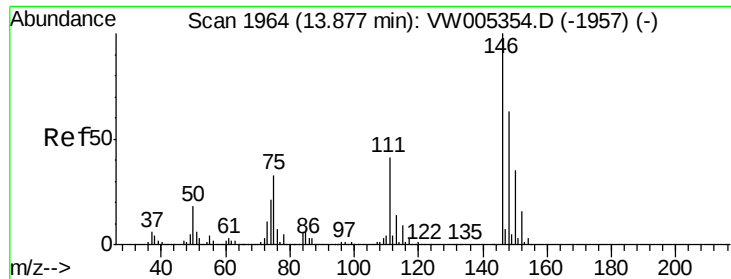
Tgt Ion:146 Resp: 250257
 Ion Ratio Lower Upper
 146 100
 111 39.9 28.1 52.3
 148 64.9 44.7 83.1



#64
 1,4-Dichlorobenzene
 Concen: 24.038 ug/L
 RT: 13.58 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VW005359.D
 Acq: 13 Sep 2018 19:15

Tgt Ion:146 Resp: 258422
 Ion Ratio Lower Upper
 146 100
 111 39.4 27.9 51.9
 148 64.1 44.3 82.3





#65

1,2-Dichlorobenzene

Concen: 23.769 ug/L

RT: 13.88 min Scan# 1964

Delta R.T. 0.00 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

Instrument :

MSVOA_W

ClientSampleId :

VSTD02587

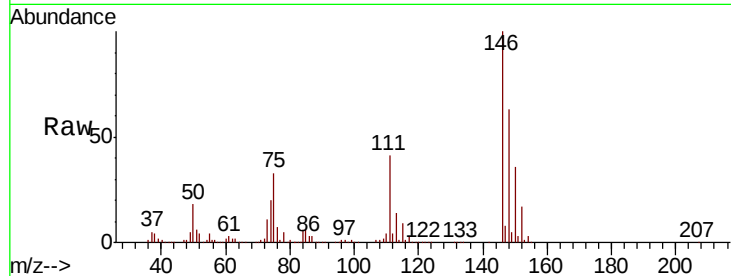
Tgt Ion:146 Resp: 237026

Ion Ratio Lower Upper

146 100

111 40.9 32.9 49.3

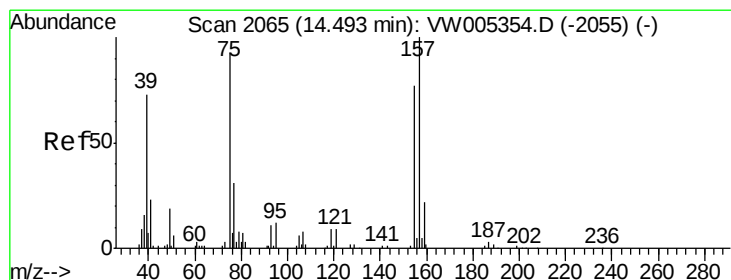
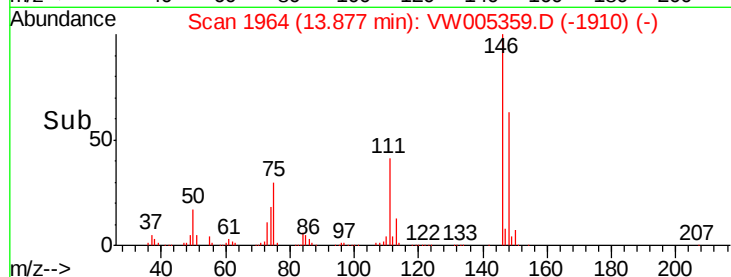
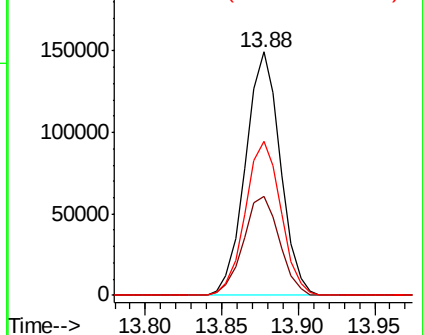
148 63.3 50.6 75.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 19.053 ug/L

RT: 14.49 min Scan# 2065

Delta R.T. 0.00 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

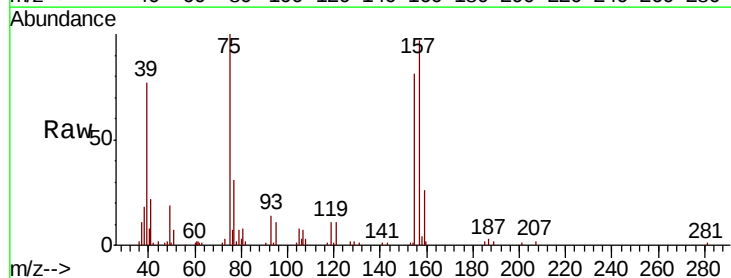
Tgt Ion: 75 Resp: 20617

Ion Ratio Lower Upper

75 100

157 97.5 86.3 129.5

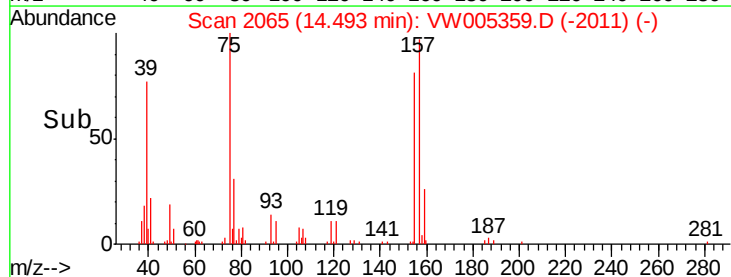
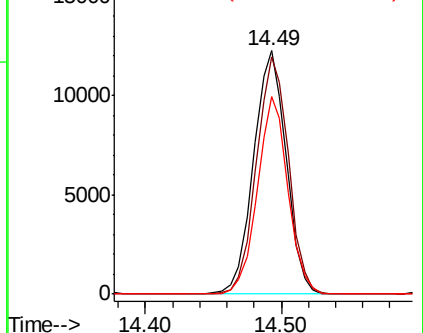
155 81.3 66.6 100.0

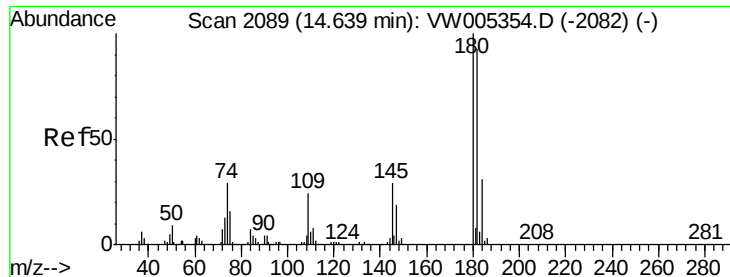


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

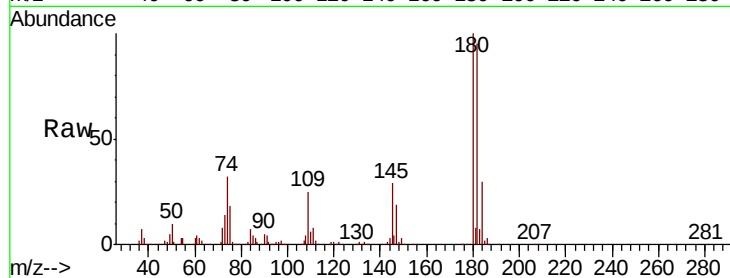




#67
 1,3,5-Trichlorobenzene
 Concen: 24.570 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. -0.01 min
 Lab File: VW005359.D
 Acq: 13 Sep 2018 19:15

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02587

Tgt Ion:	180	Resp:	202652
Ion	Ratio	Lower	Upper
180	100		
182	94.8	75.7	113.5
184	30.9	24.0	36.0
145	29.1	23.8	35.6



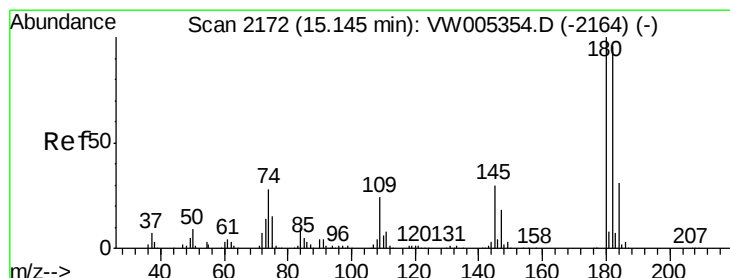
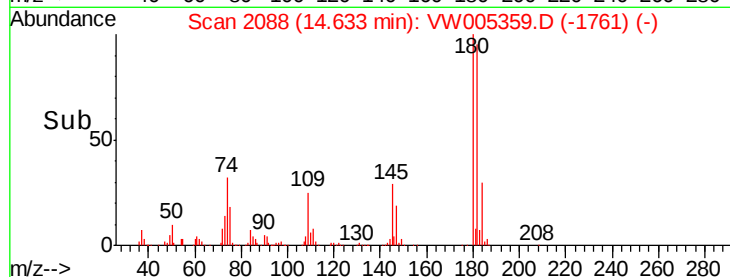
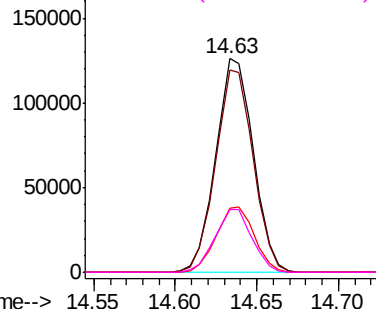
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

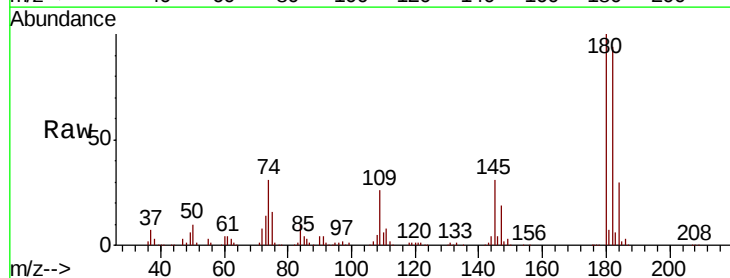
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 24.466 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. -0.01 min
 Lab File: VW005359.D
 Acq: 13 Sep 2018 19:15

Tgt Ion:	180	Resp:	166784
Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.6	115.0
145	30.5	24.2	36.4

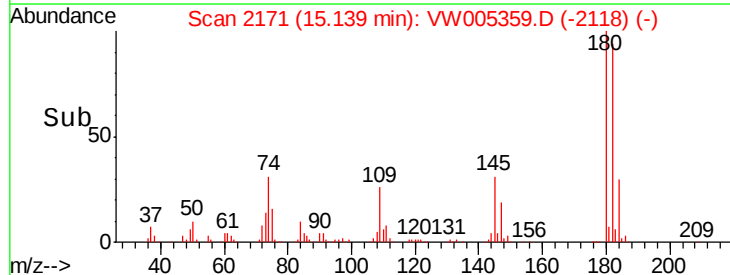
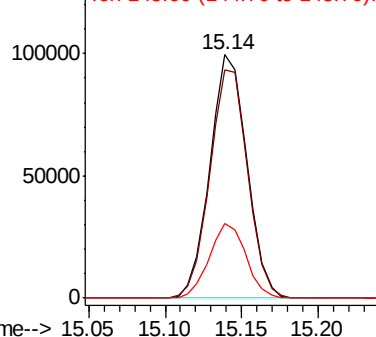


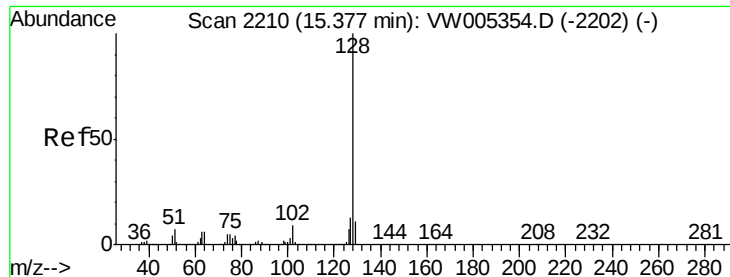
Abundance

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: 22.758 ug/L

RT: 15.38 min Scan# 2210

Delta R.T. 0.00 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

Instrument :

MSVOA_W

ClientSampleId :

VSTD02587

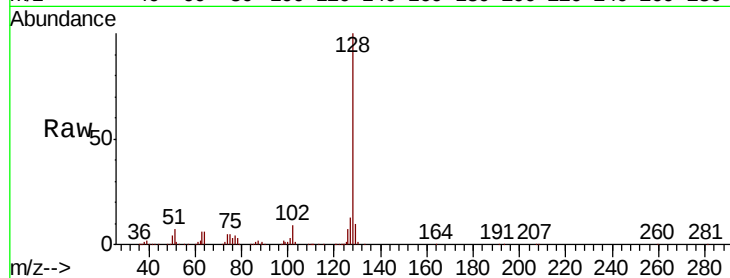
Tgt Ion:128 Resp: 339902

Ion Ratio Lower Upper

128 100

129 10.8 8.8 13.2

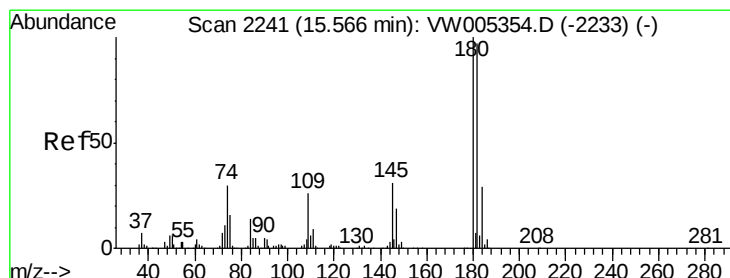
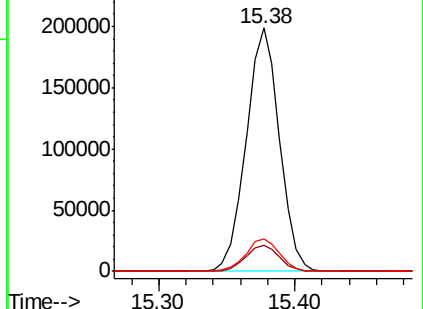
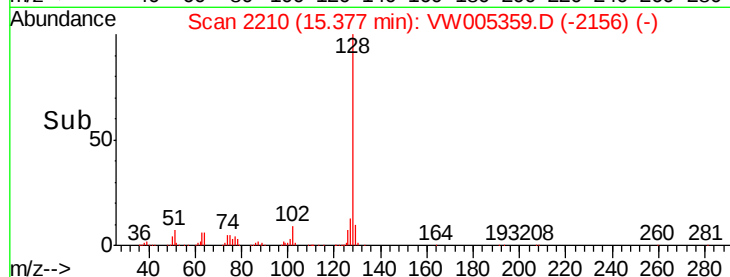
127 13.6 10.9 16.3



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: 24.562 ug/L

RT: 15.57 min Scan# 2241

Delta R.T. 0.00 min

Lab File: VW005359.D

Acq: 13 Sep 2018 19:15

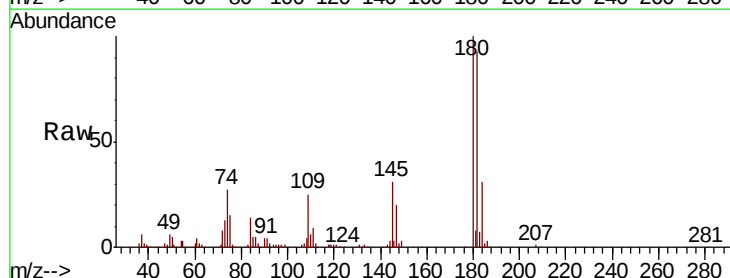
Tgt Ion:180 Resp: 157374

Ion Ratio Lower Upper

180 100

182 94.6 76.9 115.3

145 32.2 26.0 39.0



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

