

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW122018\
 Data File : VW007678.D
 Acq On : 19 Dec 2018 01:57
 Operator : SY/AP
 Sample : VW1220SBS02
 Misc : 4.77G/5ML/MSVOA W/SOIL
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Dec 19 03:23:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W121118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 11 02:58:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	60430	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	101716	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	92365	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	47311	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	33417	49.84	ug/l	0.00
Spiked Amount			Recovery	=	99.68%	
35) Dibromofluoromethane	7.88	113	30505	49.54	ug/l	0.00
Spiked Amount			Recovery	=	99.08%	
50) Toluene-d8	10.32	98	111767	48.41	ug/l	0.00
Spiked Amount			Recovery	=	96.82%	
62) 4-Bromofluorobenzene	12.62	95	43960	51.79	ug/l	0.00
Spiked Amount			Recovery	=	103.58%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.01	85	9948	23.557	ug/l	92
3) Chloromethane	2.21	50	6670	18.859	ug/l	92
4) Vinyl Chloride	2.36	62	8665	20.877	ug/l	95
5) Bromomethane	2.78	94	6370	22.843	ug/l	99
6) Chloroethane	2.92	64	4929	21.574	ug/l	96
7) Trichlorofluoromethane	3.26	101	8373	22.439	ug/l	97
8) Diethyl Ether	3.67	74	6799	23.280	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	4.06	101	13620	22.121	ug/l	97
10) Methyl Iodide	4.26	142	22706	22.267	ug/l	97
11) Tert butyl alcohol	5.17	59	5223	113.436	ug/l #	93
12) 1,1-Dichloroethene	4.04	96	12920	21.795	ug/l	93
13) Acrolein	3.89	56	3003	98.566	ug/l	99
14) Allyl chloride	4.66	41	17870	20.451	ug/l	96
15) Acrylonitrile	5.36	53	13578	110.286	ug/l	98
16) Acetone	4.12	43	11541	98.554	ug/l	99
17) Carbon Disulfide	4.37	76	37133	20.659	ug/l	99
18) Methyl Acetate	4.67	43	7198	22.647	ug/l	99
19) Methyl tert-butyl Ether	5.43	73	20098	22.474	ug/l	99
20) Methylene Chloride	4.91	84	15362	21.777	ug/l	97
21) trans-1,2-Dichloroethene	5.42	96	14750	22.243	ug/l	96
22) Diisopropyl ether	6.31	45	35423	21.091	ug/l	93
23) Vinyl Acetate	6.26	43	98895	105.270	ug/l	98
24) 1,1-Dichloroethane	6.21	63	24736	21.791	ug/l	98
25) 2-Butanone	7.17	43	15682	102.578	ug/l	99
26) 2,2-Dichloropropane	7.16	77	16809	22.374	ug/l	99
27) cis-1,2-Dichloroethene	7.17	96	16360	22.531	ug/l	98
28) Bromochloromethane	7.51	49	9149	21.427	ug/l	93
29) Tetrahydrofuran	7.53	42	9934	102.643	ug/l	96
30) Chloroform	7.68	83	28157	22.793	ug/l	100
31) Cyclohexane	7.96	56	20346	19.535	ug/l	95
32) 1,1,1-Trichloroethane	7.87	97	25376	23.425	ug/l	98
36) 1,1-Dichloropropene	8.08	75	20415	22.002	ug/l	99
37) Ethyl Acetate	7.25	43	6761	19.591	ug/l #	94
38) Carbon Tetrachloride	8.07	117	23680	23.454	ug/l	98

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W121118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 11 02:58:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	24064	21.417	ug/l	91
40) Benzene	8.32	78	58113	22.568	ug/l	98
41) Methacrylonitrile	7.49	41	4379	22.282	ug/l	95
42) 1,2-Dichloroethane	8.40	62	19280	23.835	ug/l	100
43) Isopropyl Acetate	8.42	43	14569	21.371	ug/l	97
44) Trichloroethene	9.09	130	16924	23.016	ug/l	94
45) 1,2-Dichloropropane	9.37	63	13432	22.541	ug/l	97
46) Dibromomethane	9.46	93	7917	23.395	ug/l	99
47) Bromodichloromethane	9.65	83	20975	23.630	ug/l #	95
48) Methyl methacrylate	9.43	41	7307	20.870	ug/l	93
49) 1,4-Dioxane	9.45	88	2828	515.044	ug/l	96
51) 4-Methyl-2-Pentanone	10.21	43	34043	105.689	ug/l	100
52) Toluene	10.39	92	38713	23.231	ug/l	100
53) t-1,3-Dichloropropene	10.60	75	19619	22.767	ug/l	98
54) cis-1,3-Dichloropropene	10.07	75	22121	22.206	ug/l	98
55) 1,1,2-Trichloroethane	10.79	97	10810	23.471	ug/l	95
56) Ethyl methacrylate	10.65	69	12459	22.506	ug/l	99
57) 1,3-Dichloropropane	10.93	76	18431	24.381	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.93	63	26865	105.236	ug/l	96
59) 2-Hexanone	10.97	43	23373	108.823	ug/l	98
60) Dibromochloromethane	11.13	129	14465	24.887	ug/l	98
61) 1,2-Dibromoethane	11.24	107	11275	24.772	ug/l	92
64) Tetrachloroethene	10.86	164	15018	22.610	ug/l	95
65) Chlorobenzene	11.66	112	43971	22.840	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.73	131	15848	23.373	ug/l	96
67) Ethyl Benzene	11.73	91	75603	22.841	ug/l	94
68) m/p-Xylenes	11.84	106	59348	46.122	ug/l	99
69) o-Xylene	12.17	106	28073	23.360	ug/l	97
70) Styrene	12.18	104	46725	24.072	ug/l	98
71) Bromoform	12.35	173	8341	24.034	ug/l #	98
73) Isopropylbenzene	12.47	105	78369	21.618	ug/l	99
74) N-amyl acetate	12.27	43	13834	20.998	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.72	83	11883	22.132	ug/l	94
76) 1,2,3-Trichloropropane	12.77	75	16552	42.431	ug/l	33
77) Bromobenzene	12.75	156	18134	22.567	ug/l	97
78) n-propylbenzene	12.80	91	92094	22.573	ug/l	99
79) 2-Chlorotoluene	12.90	91	54185	21.950	ug/l	96
80) 1,3,5-Trimethylbenzene	12.94	105	68016	22.329	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.51	75	3443	19.497	ug/l	99
82) 4-Chlorotoluene	12.99	91	58215	22.372	ug/l	96
83) tert-Butylbenzene	13.21	119	60657	22.600	ug/l	98
84) 1,2,4-Trimethylbenzene	13.26	105	70457	22.478	ug/l	99
85) sec-Butylbenzene	13.39	105	82953	22.640	ug/l	96
86) p-Isopropyltoluene	13.51	119	74664	22.683	ug/l	98
87) 1,3-Dichlorobenzene	13.51	146	36504	22.785	ug/l	98
88) 1,4-Dichlorobenzene	13.58	146	36441	22.625	ug/l	97
89) n-Butylbenzene	13.83	91	67492	22.118	ug/l	99
90) Hexachloroethane	14.10	117	13280	22.675	ug/l	99
91) 1,2-Dichlorobenzene	13.88	146	33546	23.378	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.49	75	2155	20.000	ug/l	85

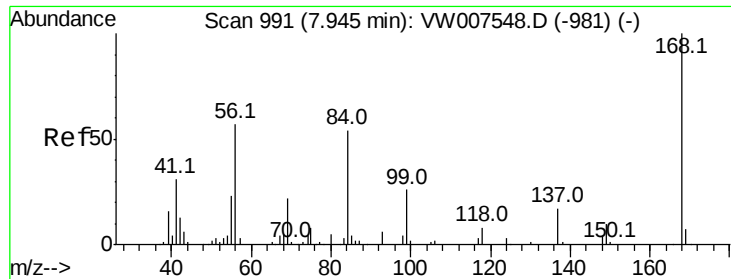
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	22139	22.419	ug/l	97
94) Hexachlorobutadiene	15.24	225	11750	22.425	ug/l	100
95) Naphthalene	15.38	128	40316	21.341	ug/l	98
96) 1,2,3-Trichlorobenzene	15.56	180	18838	21.960	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

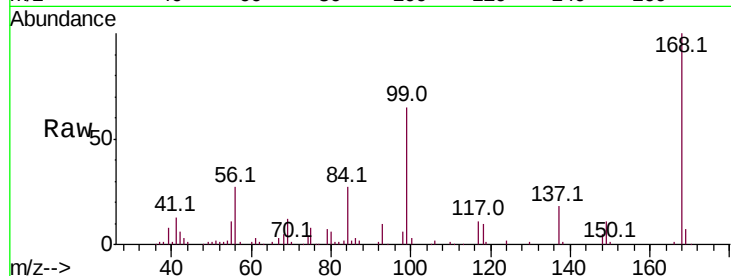
Instrument :
MSVOA_W
ClientSampled :

Tot Ion:168 Resp: 60430

Ion Ratio Lower Upper

168 100

99 64.8 48.3 72.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

30000

25000

20000

15000

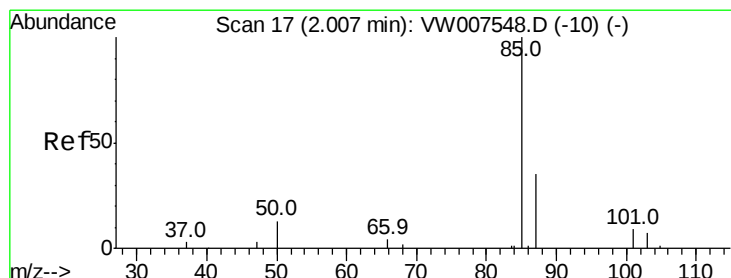
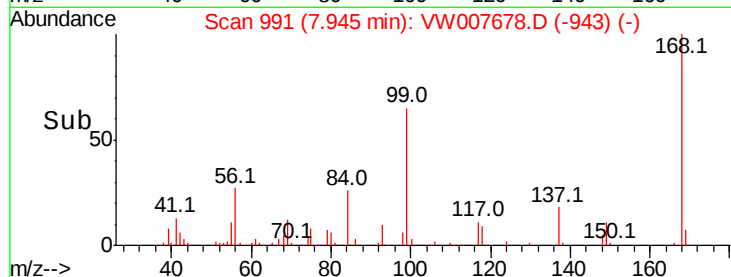
10000

5000

0

7.85 7.90 7.95 8.00 8.05

Time-->



#2

Dichlorodifluoromethane

Concen: 23.557 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW007678.D

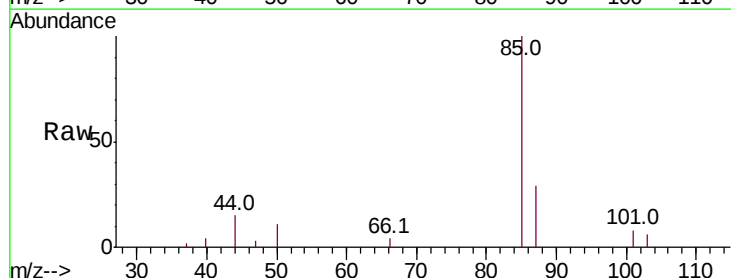
Acq: 19 Dec 2018 01:57

Tgt Ion: 85 Resp: 9948

Ion Ratio Lower Upper

85 100

87 28.6 16.6 49.7



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

4000

3000

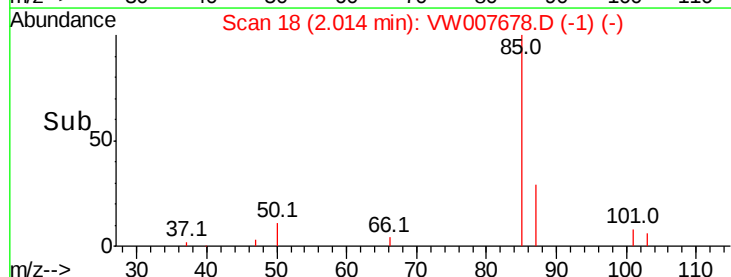
2000

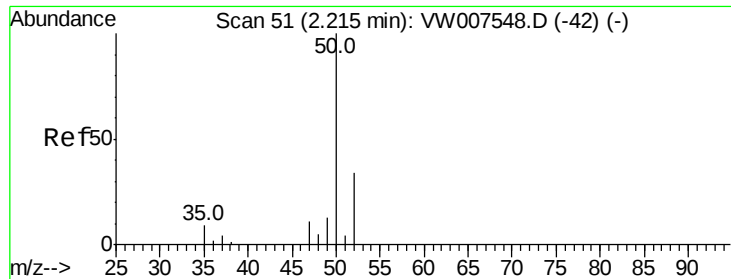
1000

0

1.90 2.00 2.10

Time-->





#3

Chloromethane

Concen: 18.859 ug/l

RT: 2.21 min Scan# 51

Delta R.T. -0.01 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Instrument :

MSVOA_W

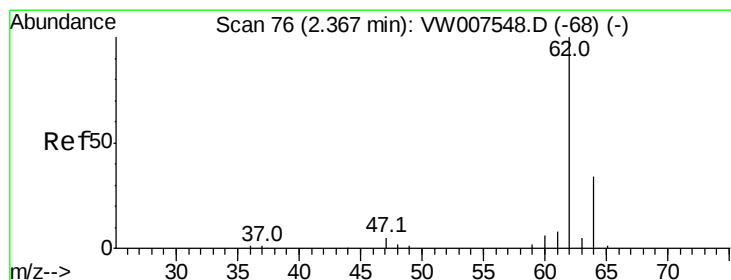
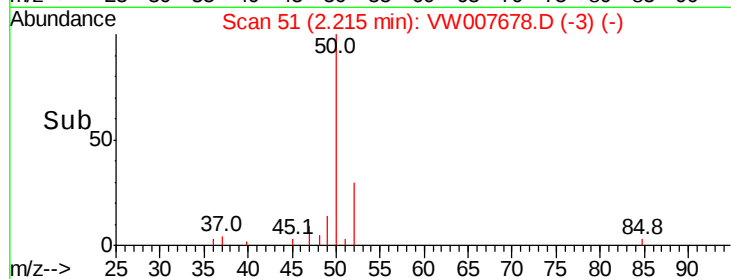
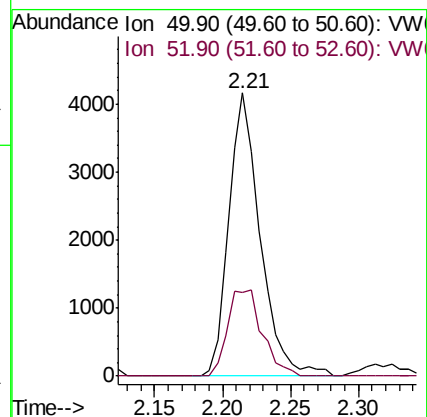
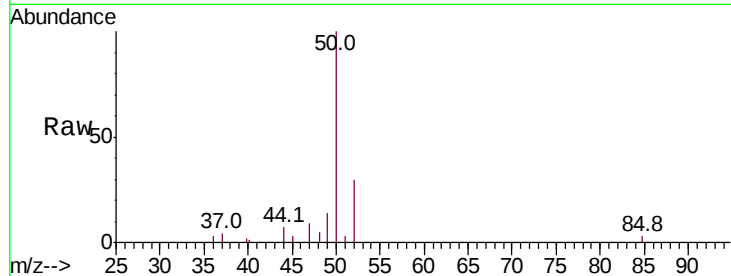
ClientSampleId :

Tot Ion: 50 Resp: 6670

Ion Ratio Lower Upper

50 100

52 29.6 27.4 41.0



#4

Vinyl Chloride

Concen: 20.877 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW007678.D

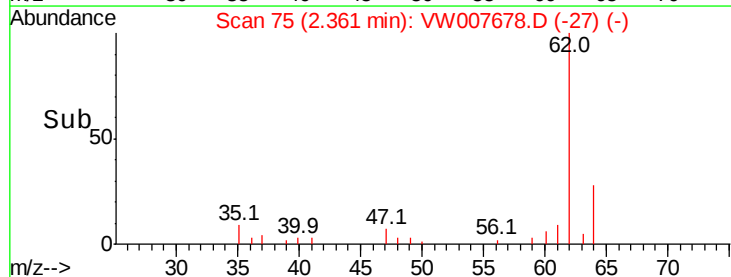
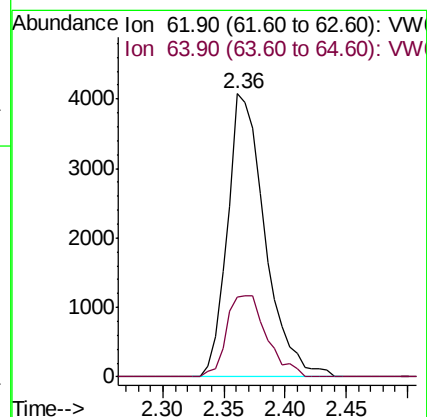
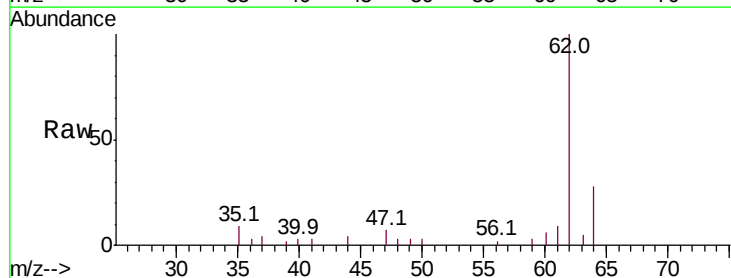
Acq: 19 Dec 2018 01:57

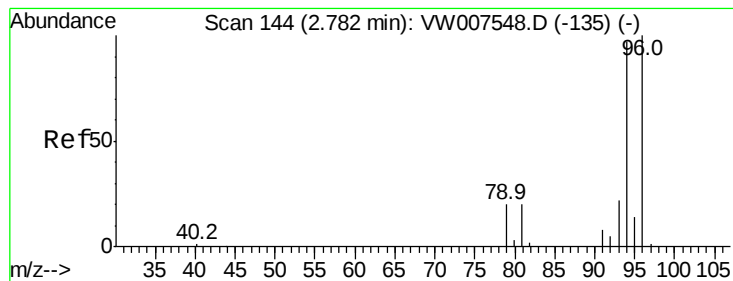
Tgt Ion: 62 Resp: 8665

Ion Ratio Lower Upper

62 100

64 28.2 24.6 37.0





#5

Bromomethane

Concen: 22.843 ug/l

RT: 2.78 min Scan# 143

Delta R.T. -0.00 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Instrument :

MSVOA_W

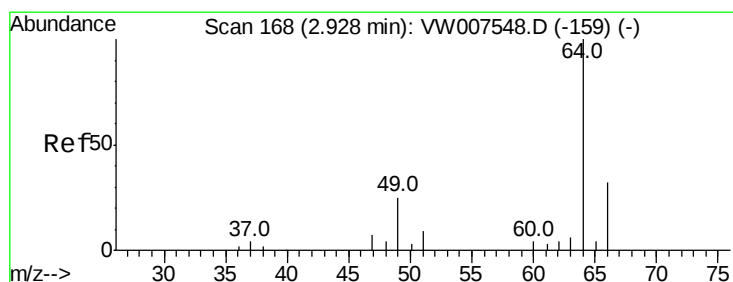
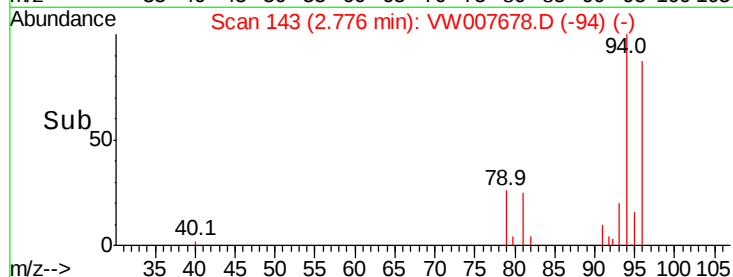
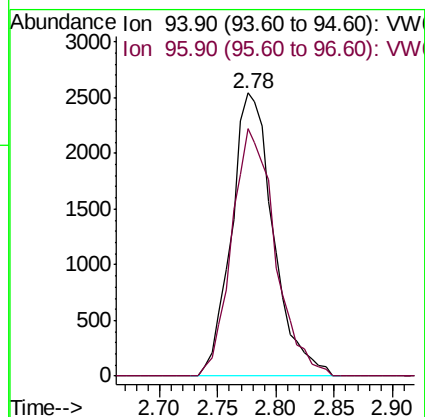
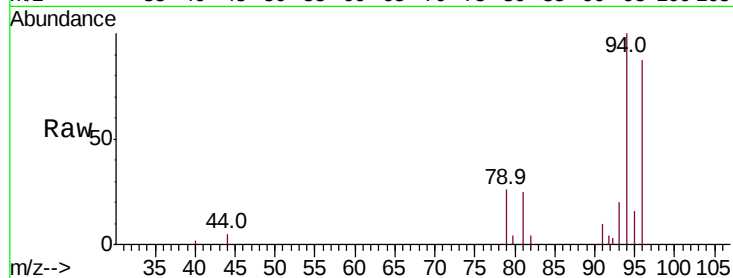
ClientSampleId :

Tot Ion: 94 Resp: 6370

Ion Ratio Lower Upper

94 100

96 87.4 71.0 106.4



#6

Chloroethane

Concen: 21.574 ug/l

RT: 2.92 min Scan# 167

Delta R.T. -0.01 min

Lab File: VW007678.D

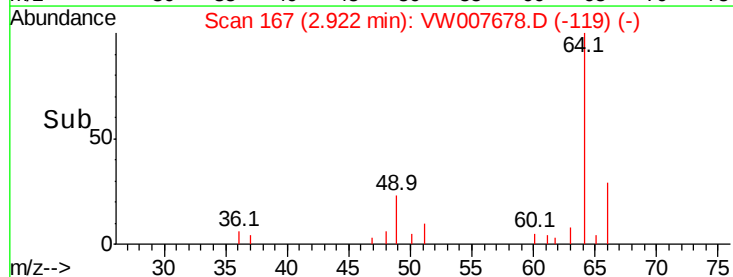
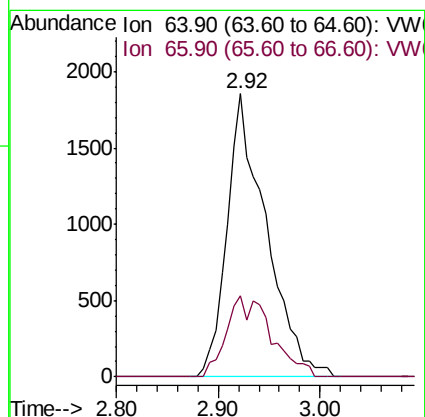
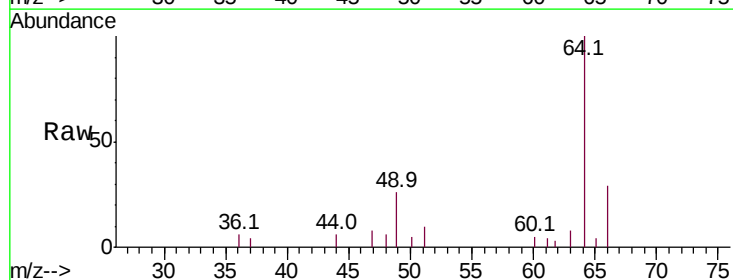
Acq: 19 Dec 2018 01:57

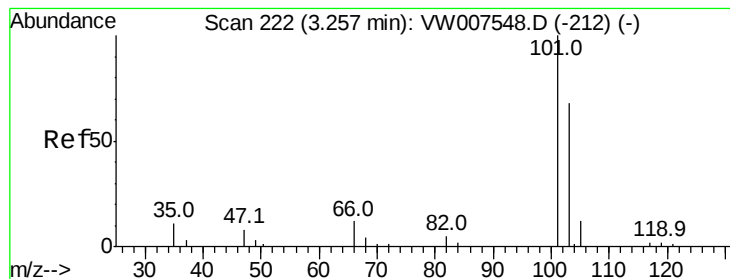
Tgt Ion: 64 Resp: 4929

Ion Ratio Lower Upper

64 100

66 28.6 24.6 37.0



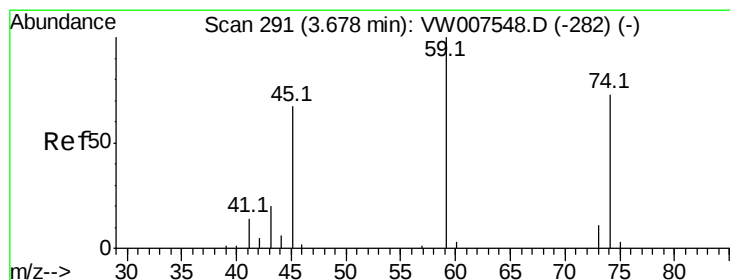
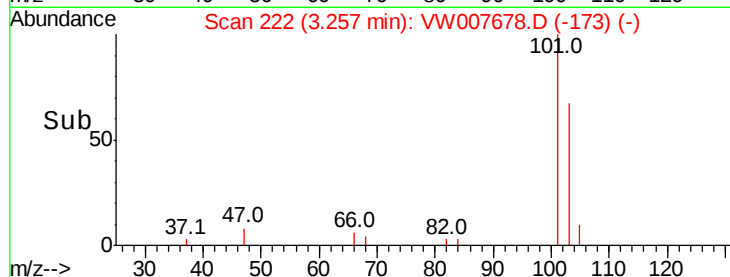
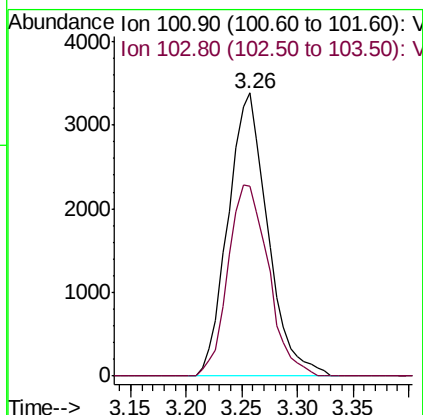
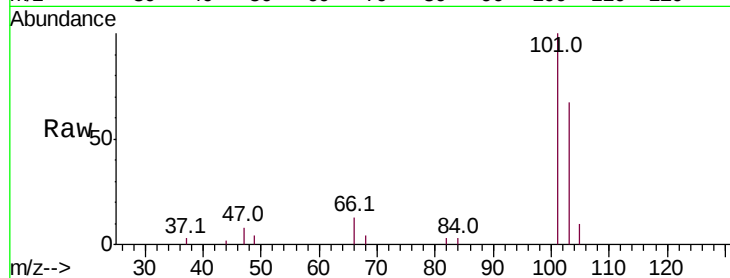


#7

Trichlorofluoromethane
 Concen: 22.439 ug/l
 RT: 3.26 min Scan# 222
 Delta R.T. -0.00 min
 Lab File: VW007678.D
 Acq: 19 Dec 2018 01:57

Instrument :
 MSVOA_W
 ClientSampleId :

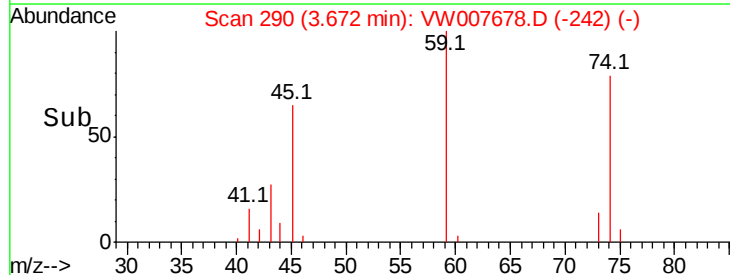
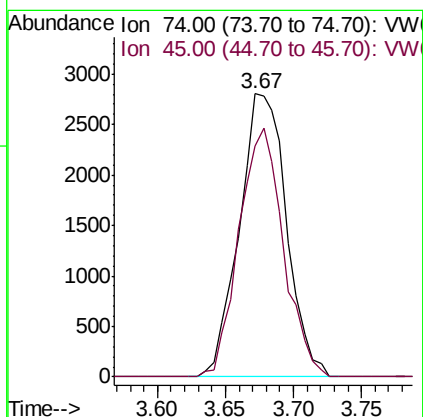
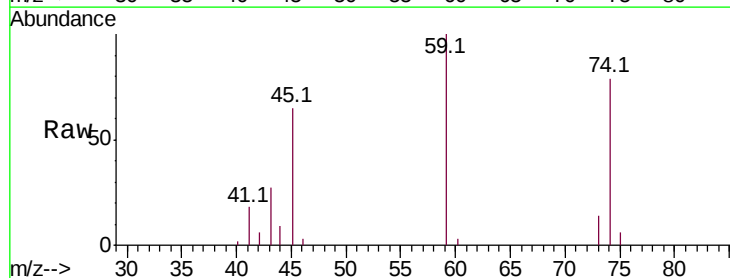
Tot Ion:101 Resp: 8373
 Ion Ratio Lower Upper
 101 100
 103 67.3 51.7 77.5

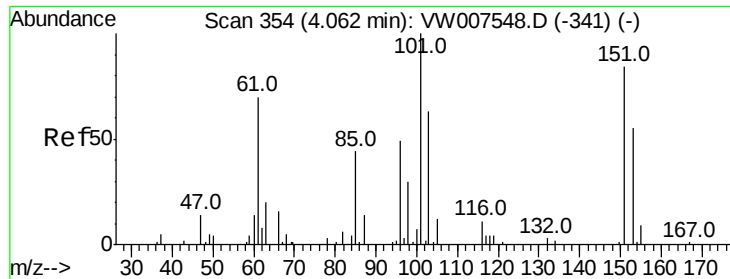


#8

Diethyl Ether
 Concen: 23.280 ug/l
 RT: 3.67 min Scan# 290
 Delta R.T. -0.01 min
 Lab File: VW007678.D
 Acq: 19 Dec 2018 01:57

Tgt Ion: 74 Resp: 6799
 Ion Ratio Lower Upper
 74 100
 45 82.8 43.0 129.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.121 ug/l

RT: 4.06 min Scan# 353

Delta R.T. 0.01 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Instrument :

MSVOA_W

ClientSampleId :

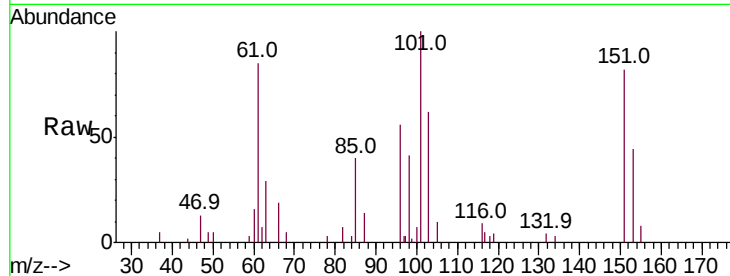
Tot Ion:101 Resp: 13620

Ion Ratio Lower Upper

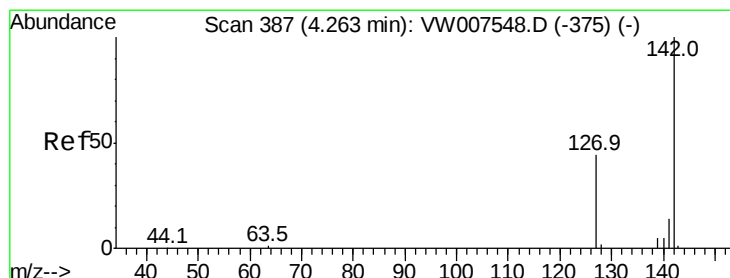
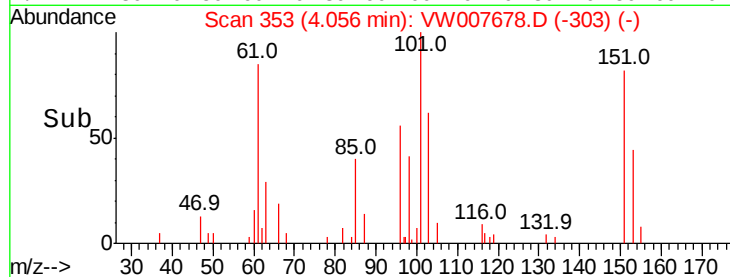
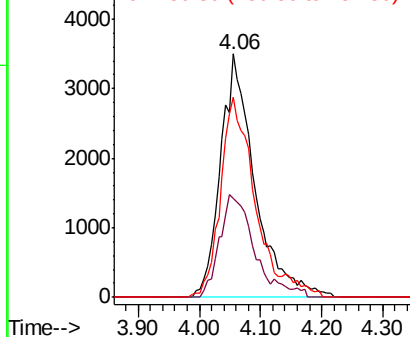
101 100

85 42.8 33.9 50.9

151 83.3 63.7 95.5



Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): VV
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 22.267 ug/l

RT: 4.26 min Scan# 387

Delta R.T. -0.00 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

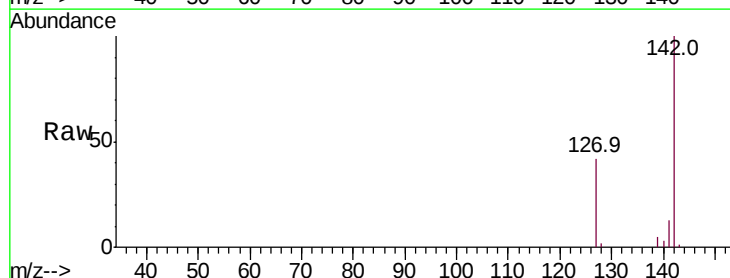
Tgt Ion:142 Resp: 22706

Ion Ratio Lower Upper

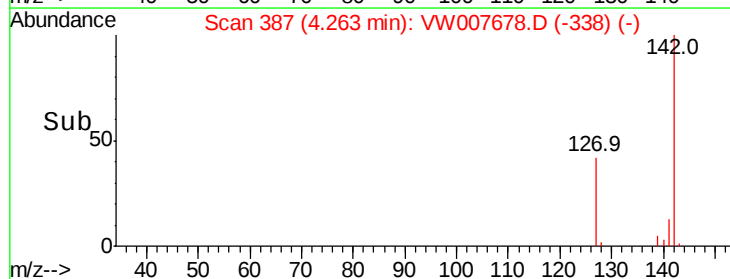
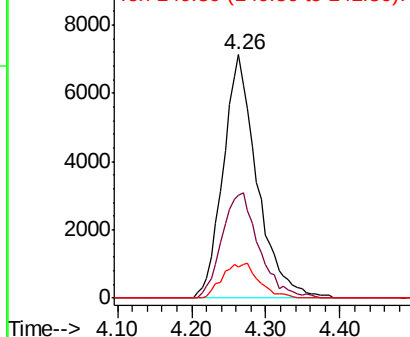
142 100

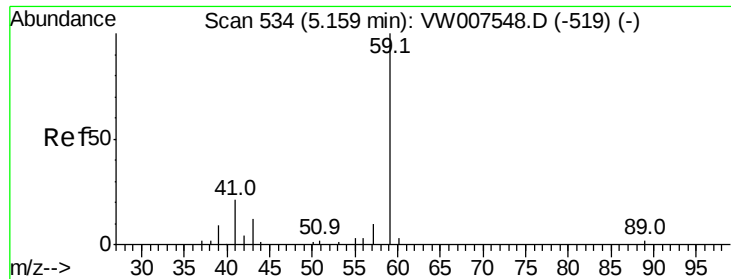
127 46.9 35.8 53.6

141 15.4 11.1 16.7



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

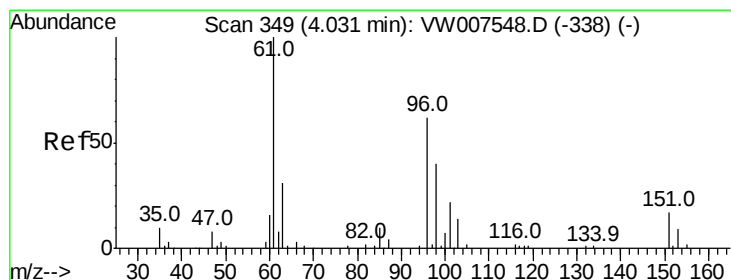
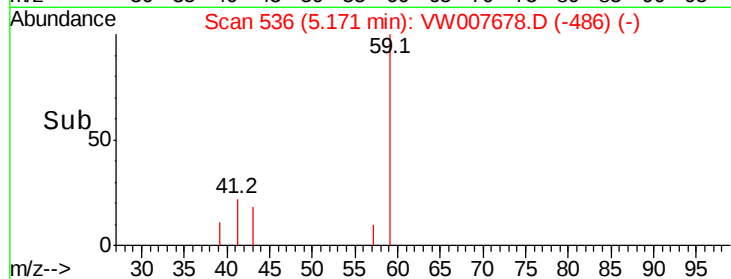
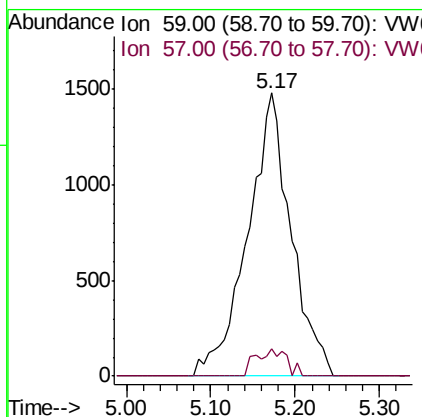
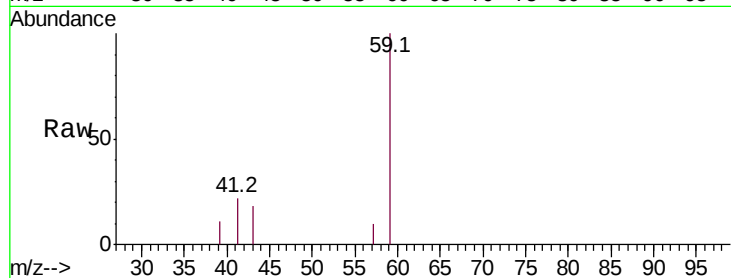




#11
Tert butyl alcohol
Concen: 113.436 ug/l
RT: 5.17 min Scan# 536
Delta R.T. 0.01 min
Lab File: VW007678.D
Acq: 19 Dec 2018 01:57

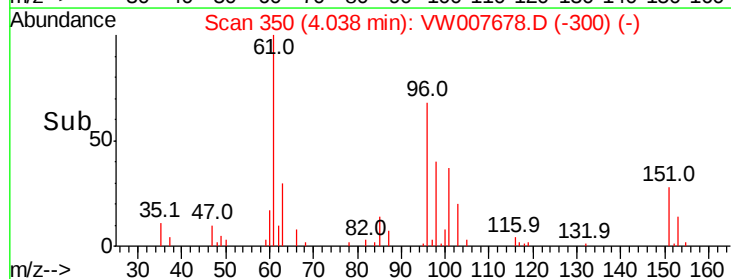
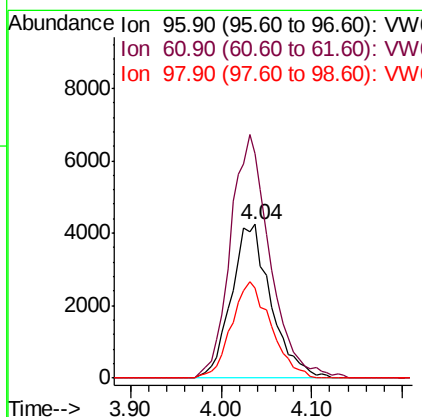
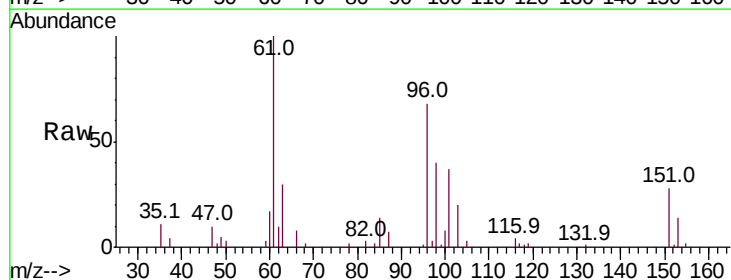
Instrument :
MSVOA_W
ClientSampleId :

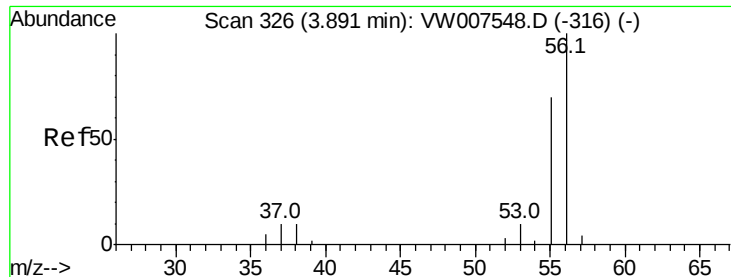
Tot Ion: 59 Resp: 5223
Ion Ratio Lower Upper
59 100
57 6.8 7.6 11.4#



#12
1,1-Dichloroethene
Concen: 21.795 ug/l
RT: 4.04 min Scan# 350
Delta R.T. 0.01 min
Lab File: VW007678.D
Acq: 19 Dec 2018 01:57

Tgt Ion: 96 Resp: 12920
Ion Ratio Lower Upper
96 100
61 146.3 126.2 189.2
98 58.4 48.3 72.5





#13

Acrolein

Concen: 98.566 ug/l

RT: 3.89 min Scan# 325

Delta R.T. -0.01 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Instrument :

MSVOA_W

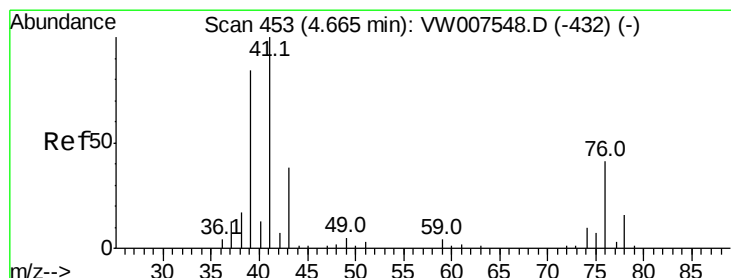
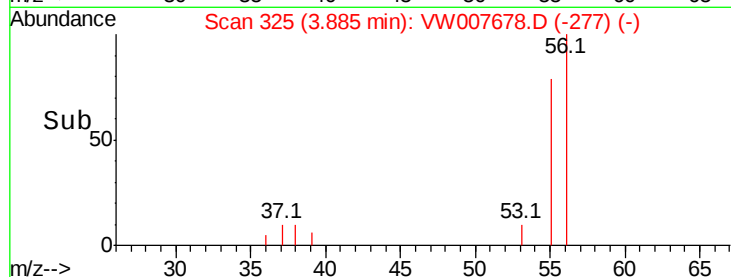
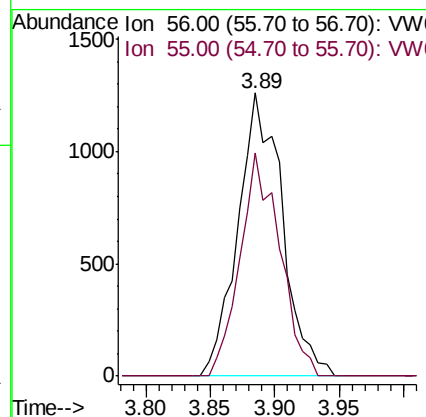
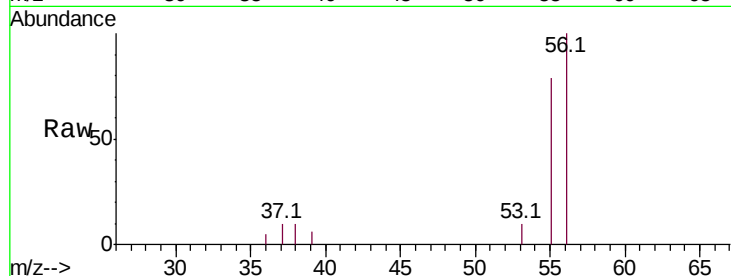
ClientSampled :

Tot Ion: 56 Resp: 3003

Ion Ratio Lower Upper

56 100

55 70.7 57.4 86.2



#14

Allyl chloride

Concen: 20.451 ug/l

RT: 4.66 min Scan# 452

Delta R.T. -0.00 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

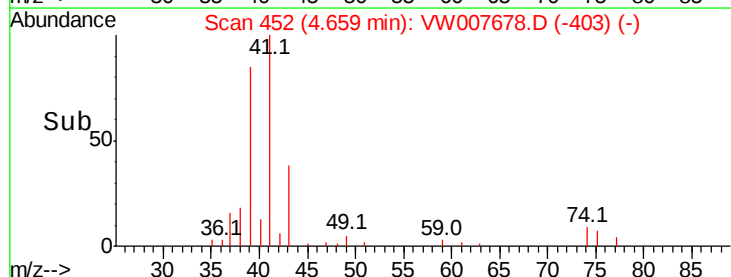
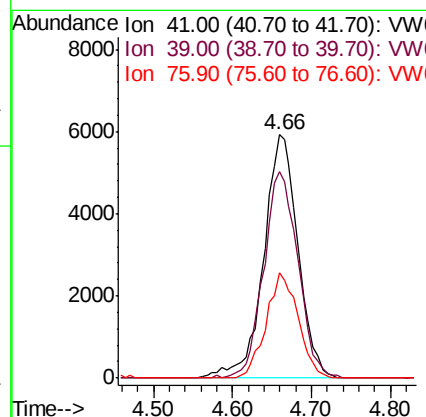
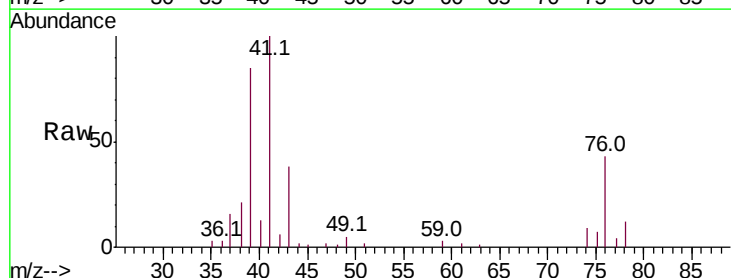
Tgt Ion: 41 Resp: 17870

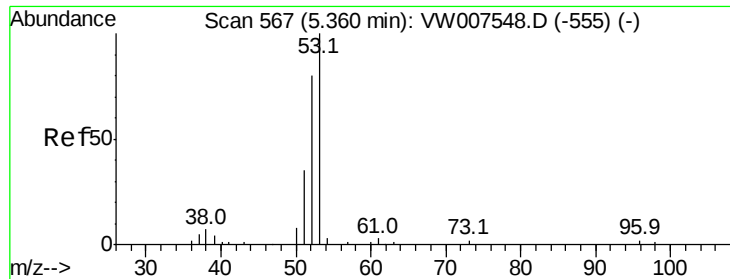
Ion Ratio Lower Upper

41 100

39 84.7 63.4 95.2

76 40.3 32.1 48.1





#15

Acrylonitrile

Concen: 110.286 ug/l

RT: 5.36 min Scan# 567

Delta R.T. -0.01 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Instrument :

MSVOA_W

ClientSampleId :

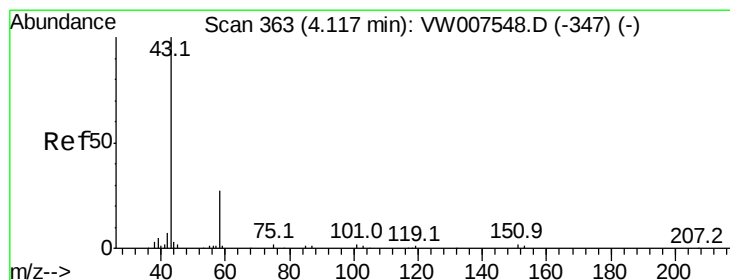
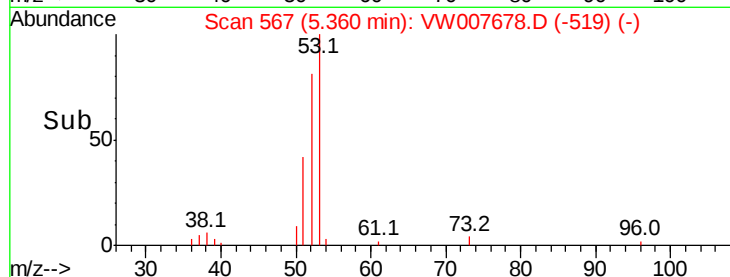
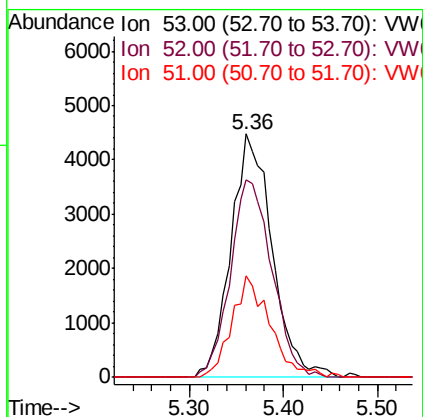
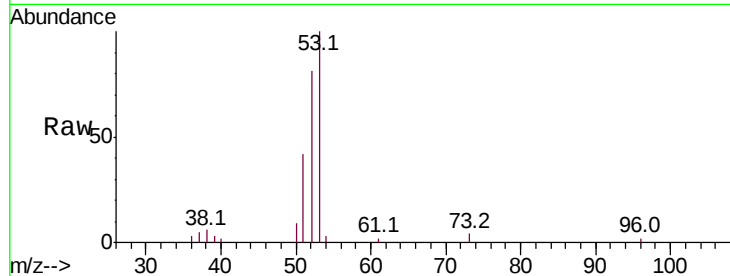
Tot Ion: 53 Resp: 13578

Ion Ratio Lower Upper

53 100

52 81.9 67.4 101.2

51 38.7 30.2 45.2



#16

Acetone

Concen: 98.554 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW007678.D

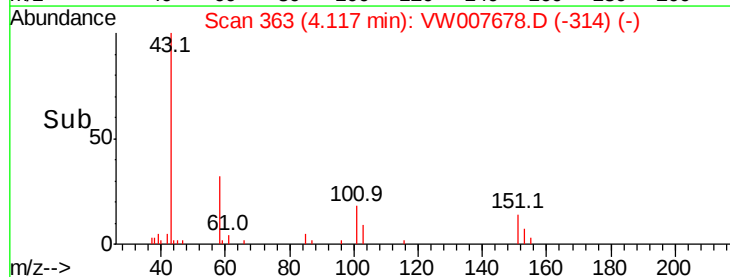
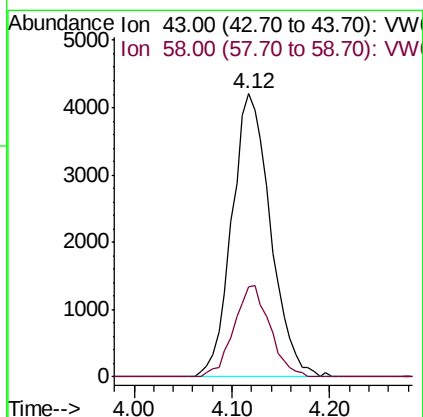
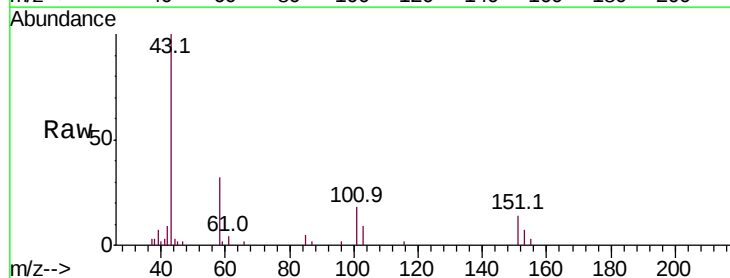
Acq: 19 Dec 2018 01:57

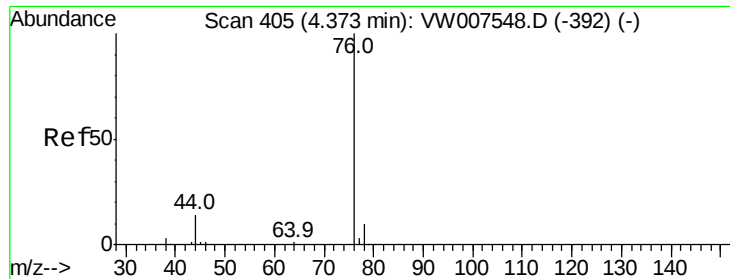
Tgt Ion: 43 Resp: 11541

Ion Ratio Lower Upper

43 100

58 31.7 24.9 37.3

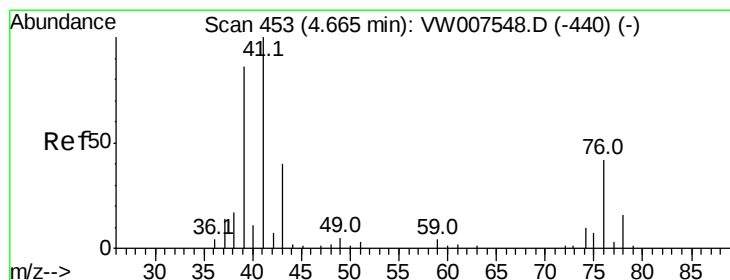
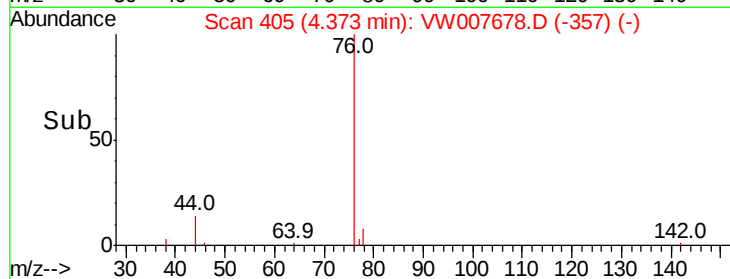
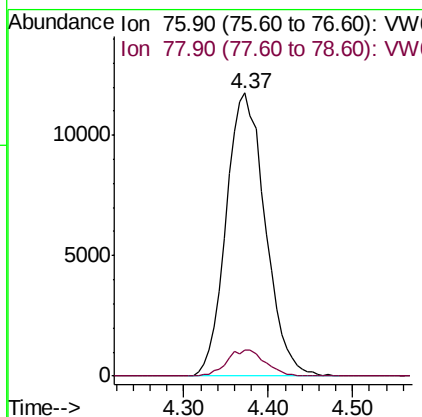
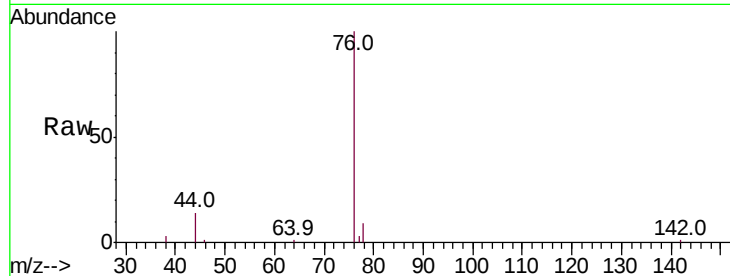




#17
Carbon Disulfide
Concen: 20.659 ug/l
RT: 4.37 min Scan# 405
Delta R.T. -0.01 min
Lab File: VW007678.D
Acq: 19 Dec 2018 01:57

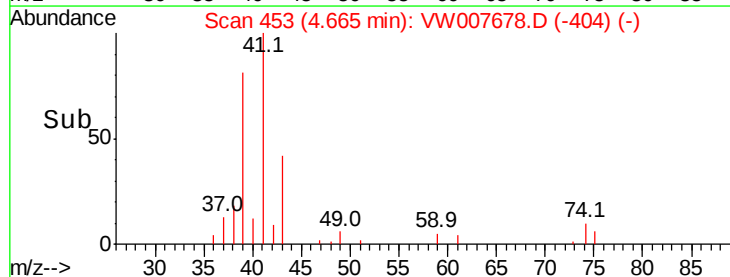
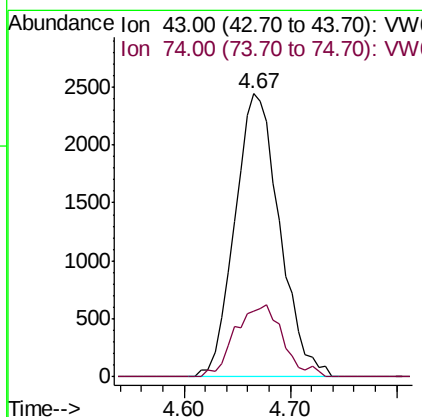
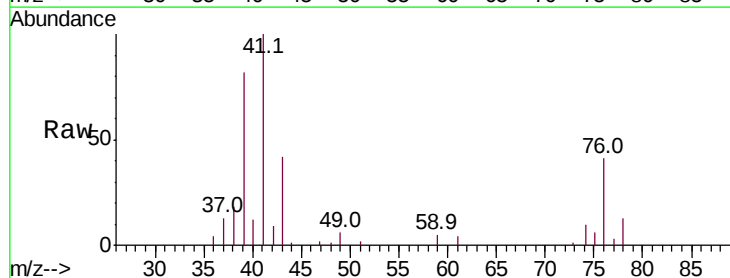
Instrument :
MSVOA_W
ClientSampleId :

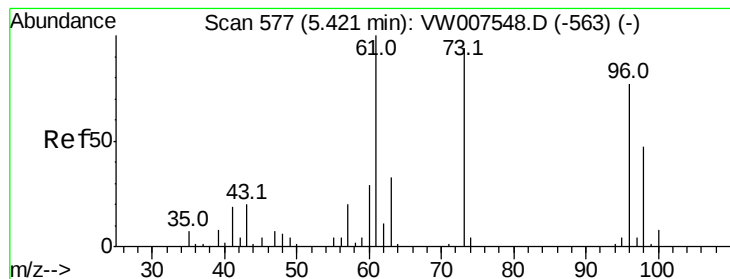
Tot Ion: 76 Resp: 37133
Ion Ratio Lower Upper
76 100
78 9.2 7.1 10.7



#18
Methyl Acetate
Concen: 22.647 ug/l
RT: 4.67 min Scan# 453
Delta R.T. -0.00 min
Lab File: VW007678.D
Acq: 19 Dec 2018 01:57

Tgt Ion: 43 Resp: 7198
Ion Ratio Lower Upper
43 100
74 27.1 21.1 31.7



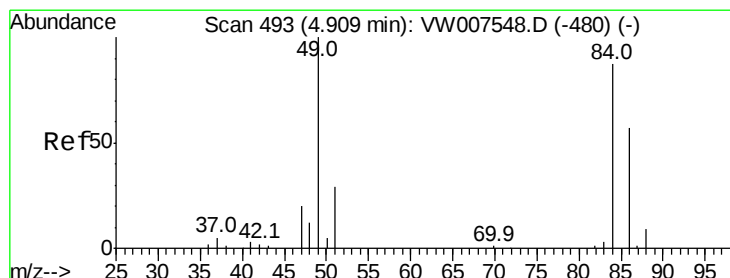
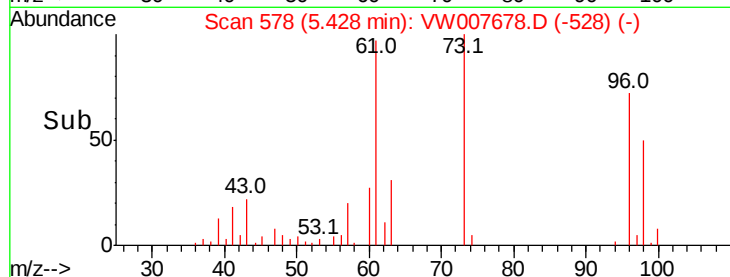
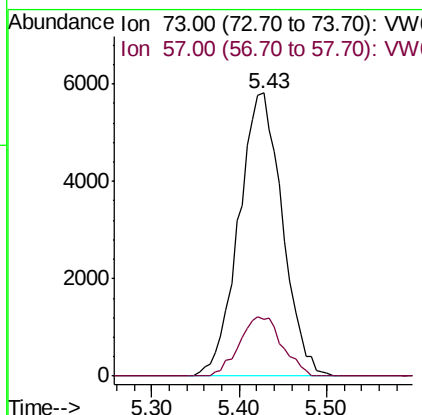
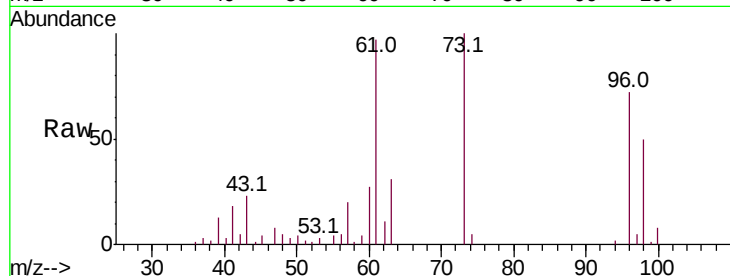


#19

Methyl tert-butyl Ether
 Concen: 22.474 ug/l
 RT: 5.43 min Scan# 578
 Delta R.T. 0.01 min
 Lab File: VW007678.D
 Acq: 19 Dec 2018 01:57

Instrument :
 MSVOA_W
 ClientSampleId :

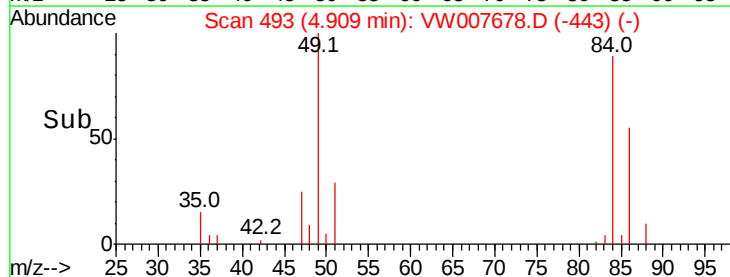
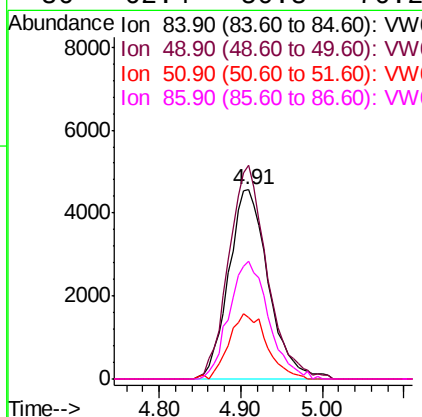
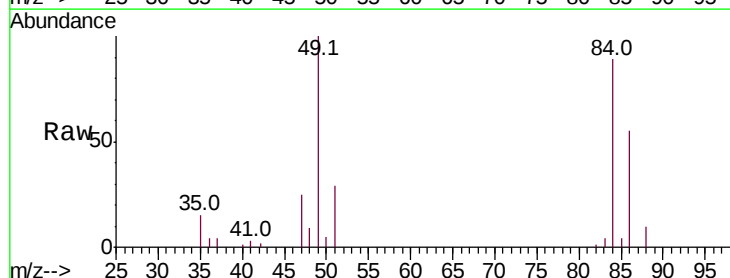
Tot Ion: 73 Resp: 20098
 Ion Ratio Lower Upper
 73 100
 57 19.9 16.4 24.6

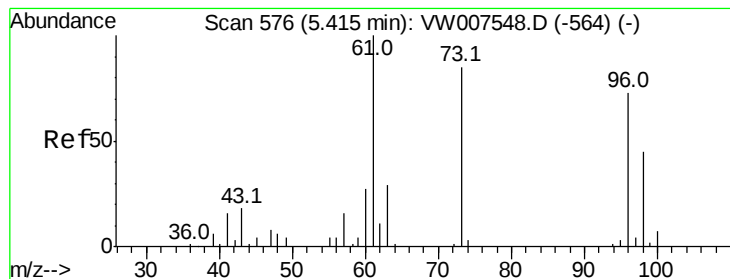


#20

Methylene Chloride
 Concen: 21.777 ug/l
 RT: 4.91 min Scan# 493
 Delta R.T. 0.01 min
 Lab File: VW007678.D
 Acq: 19 Dec 2018 01:57

Tgt Ion: 84 Resp: 15362
 Ion Ratio Lower Upper
 84 100
 49 112.9 87.1 130.7
 51 32.4 28.2 42.2
 86 62.4 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 22.243 ug/l

RT: 5.42 min Scan# 576

Delta R.T. -0.00 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Instrument :
MSVOA_W
ClientSampleId :

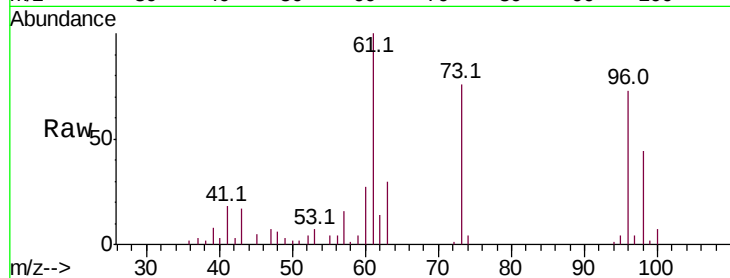
Tot Ion: 96 Resp: 14750

Ion Ratio Lower Upper

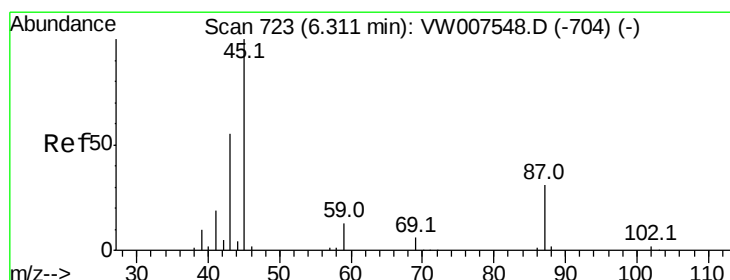
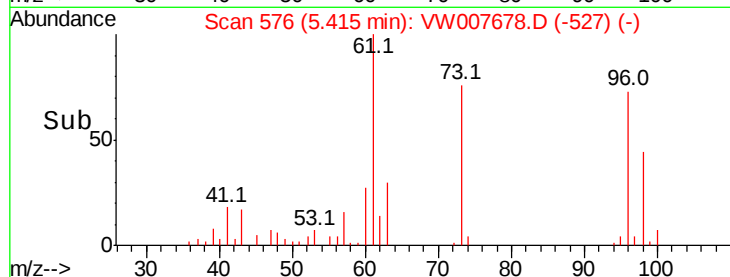
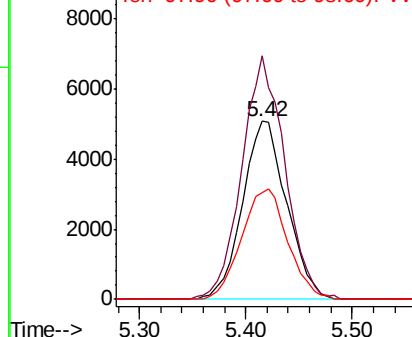
96 100

61 136.8 105.0 157.6

98 60.0 49.7 74.5



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



#22

Diisopropyl ether

Concen: 21.091 ug/l

RT: 6.31 min Scan# 723

Delta R.T. -0.00 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Tgt Ion: 45 Resp: 35423

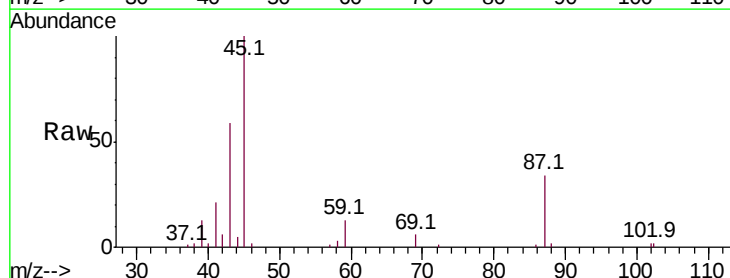
Ion Ratio Lower Upper

45 100

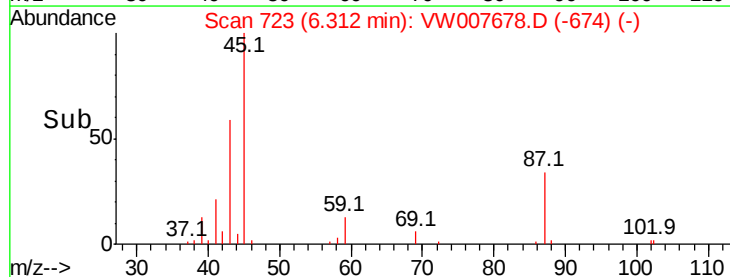
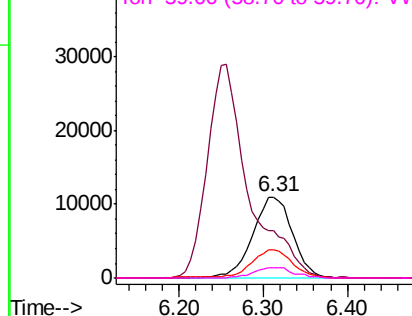
43 57.6 41.6 62.4

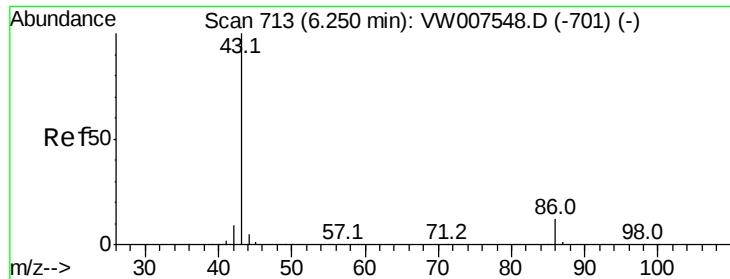
87 34.2 24.3 36.5

59 13.3 9.4 14.0



Abundance Ion 45.00 (44.70 to 45.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 87.00 (86.70 to 87.70): VW
Ion 59.00 (58.70 to 59.70): VW





#23

Vinyl Acetate

Concen: 105.270 ug/l

RT: 6.26 min Scan# 714

Delta R.T. 0.01 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

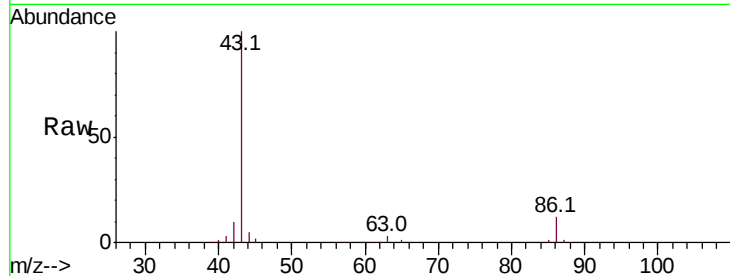
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 43 Resp: 98895

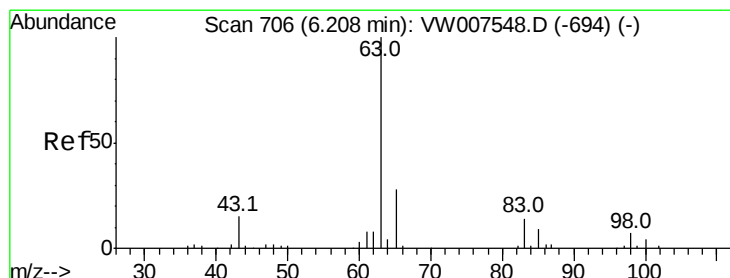
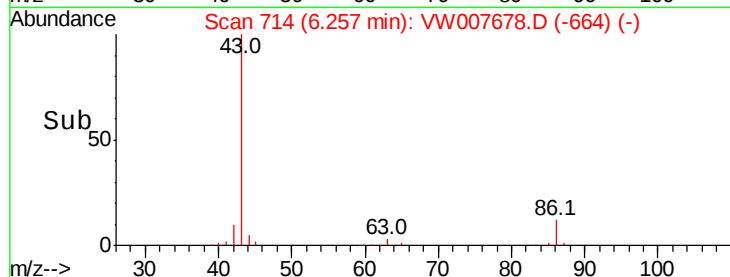
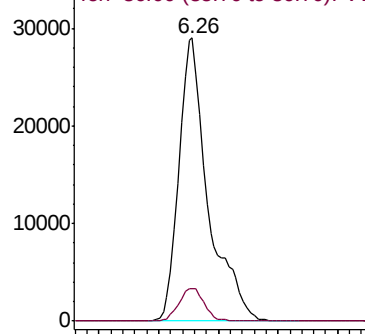
Ion Ratio Lower Upper

43 100

86 11.5 8.6 12.8



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 86.00 (85.70 to 86.70): VW



#24

1,1-Dichloroethane

Concen: 21.791 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

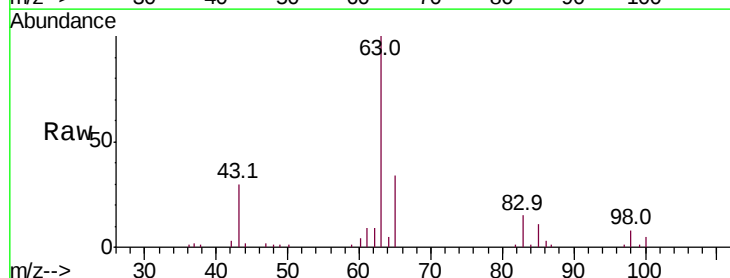
Tgt Ion: 63 Resp: 24736

Ion Ratio Lower Upper

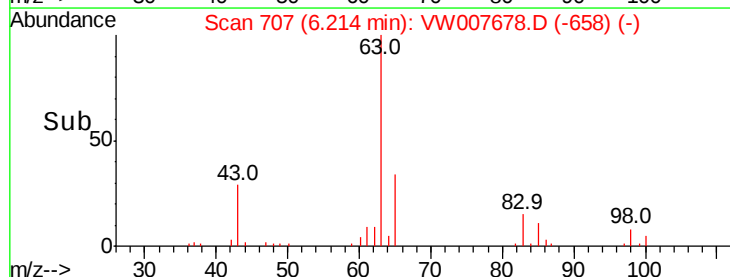
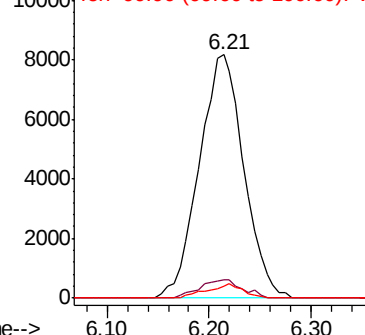
63 100

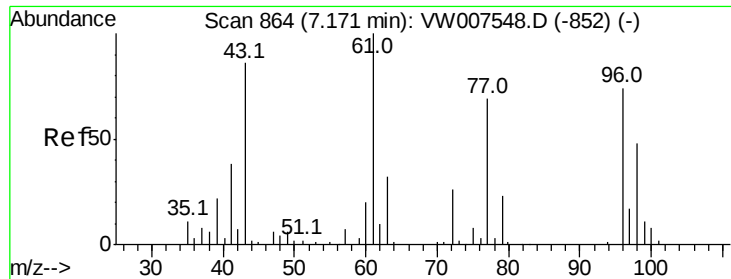
98 7.7 3.5 10.4

100 4.7 2.5 7.5



Abundance Ion 62.90 (62.60 to 63.60): VW
Ion 97.90 (97.60 to 98.60): VW
Ion 99.90 (99.60 to 100.60): VW





#25

2-Butanone

Concen: 102.578 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Instrument :

MSVOA_W

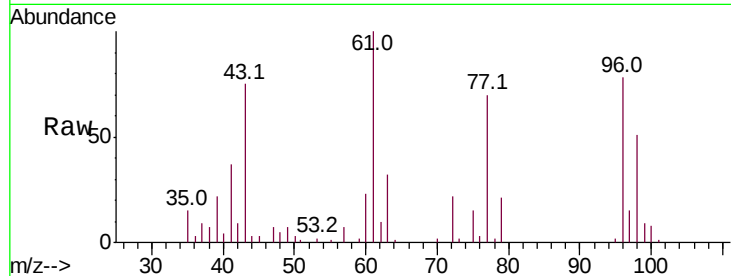
ClientSampled :

Tot Ion: 43 Resp: 15682

Ion Ratio Lower Upper

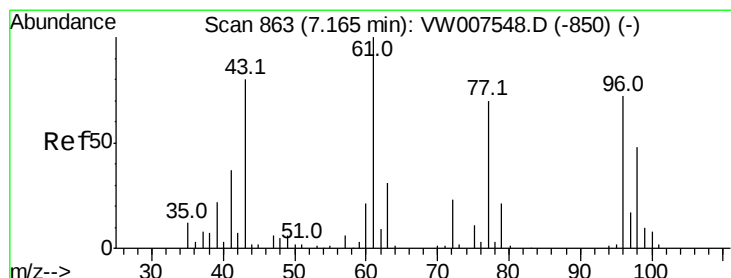
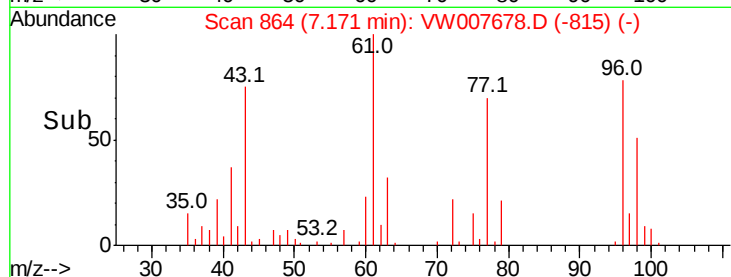
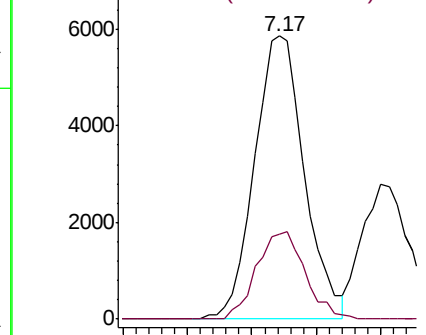
43 100

72 30.1 23.4 35.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#26

2,2-Dichloropropane

Concen: 22.374 ug/l

RT: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW007678.D

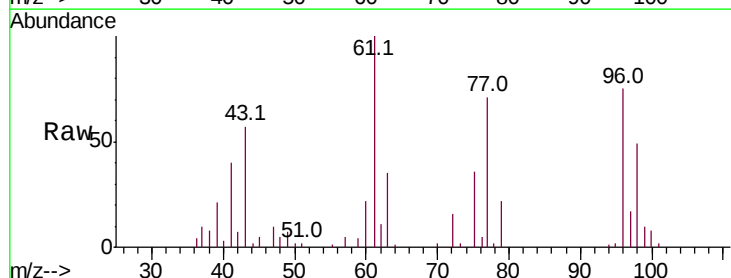
Acq: 19 Dec 2018 01:57

Tgt Ion: 77 Resp: 16809

Ion Ratio Lower Upper

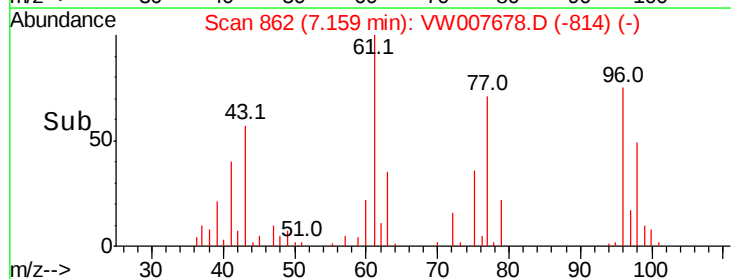
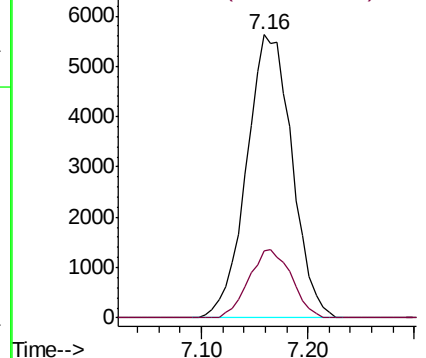
77 100

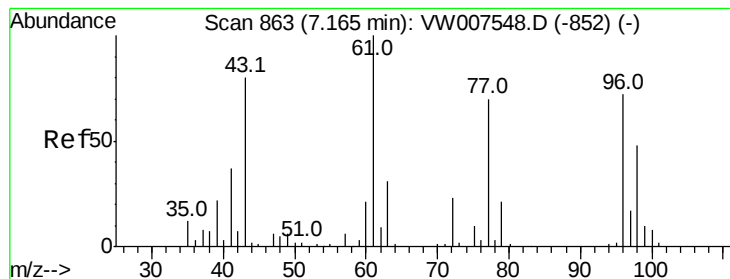
97 22.6 11.6 34.8



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW



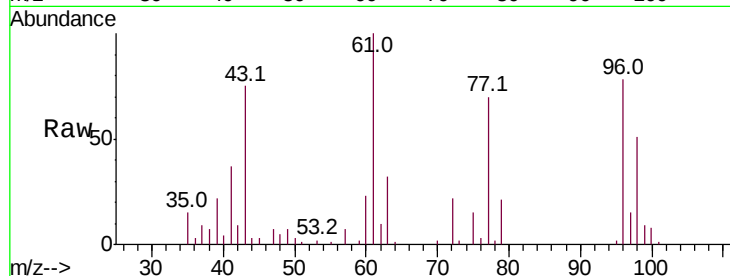


#27

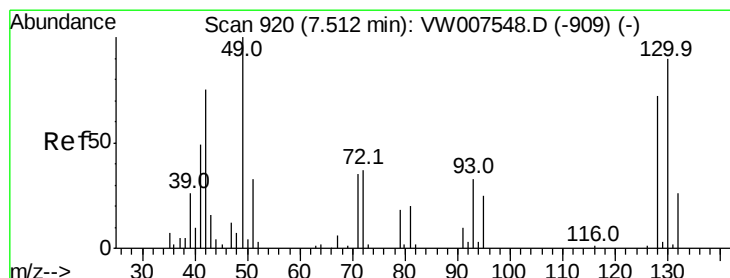
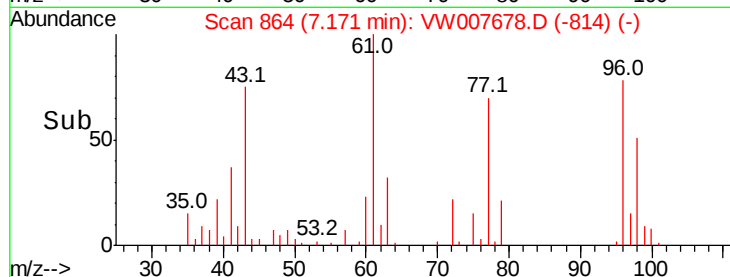
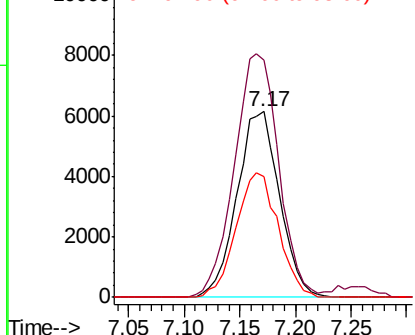
cis-1,2-Dichloroethene
Concen: 22.531 ug/l
RT: 7.17 min Scan# 864
Delta R.T. 0.01 min
Lab File: VW007678.D
Acq: 19 Dec 2018 01:57

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 96 Resp: 16360
Ion Ratio Lower Upper
96 100
61 136.3 0.0 268.4
98 66.3 0.0 127.8



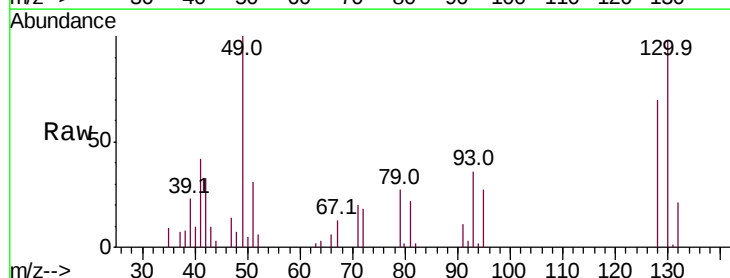
Abundance Ion 95.90 (95.60 to 96.60): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 97.90 (97.60 to 98.60): VW



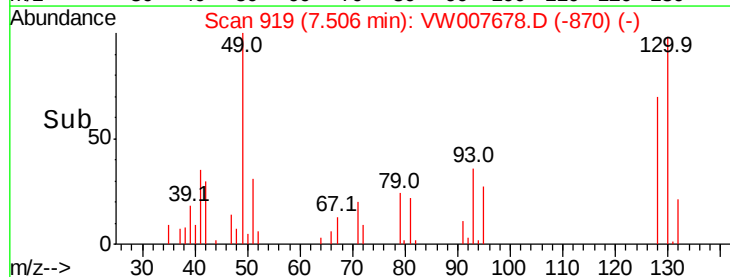
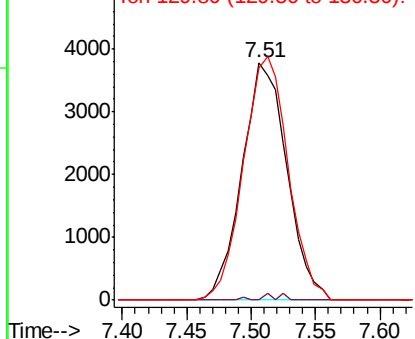
#28

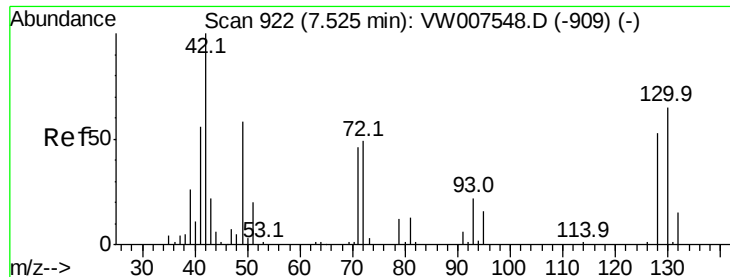
Bromochloromethane
Concen: 21.427 ug/l
RT: 7.51 min Scan# 919
Delta R.T. -0.00 min
Lab File: VW007678.D
Acq: 19 Dec 2018 01:57

Tgt Ion: 49 Resp: 9149
Ion Ratio Lower Upper
49 100
129 0.9 0.0 2.6
130 102.1 75.9 113.9



Abundance Ion 48.90 (48.60 to 49.60): VW
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 102.643 ug/l

RT: 7.53 min Scan# 923

Delta R.T. -0.00 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Instrument :

MSVOA_W

ClientSampleId :

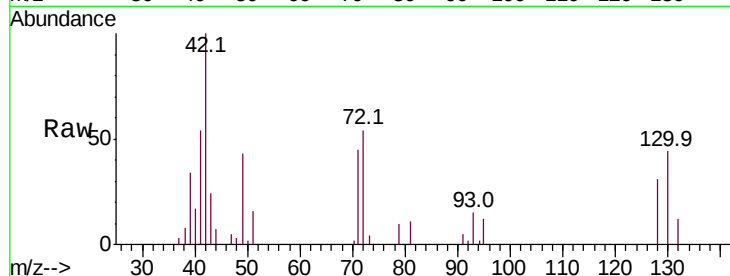
Tot Ion: 42 Resp: 9934

Ion Ratio Lower Upper

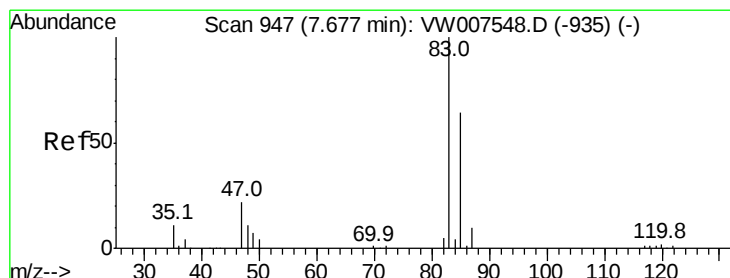
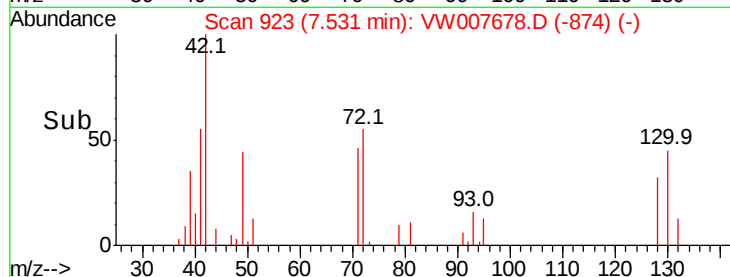
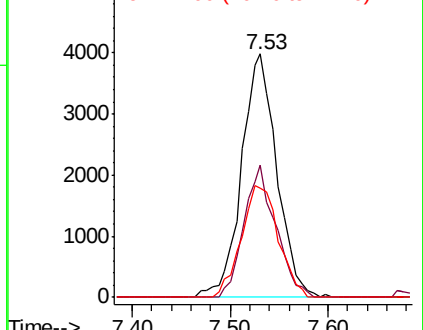
42 100

72 49.1 38.2 57.4

71 48.2 35.5 53.3



Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW



#30

Chloroform

Concen: 22.793 ug/l

RT: 7.68 min Scan# 947

Delta R.T. 0.01 min

Lab File: VW007678.D

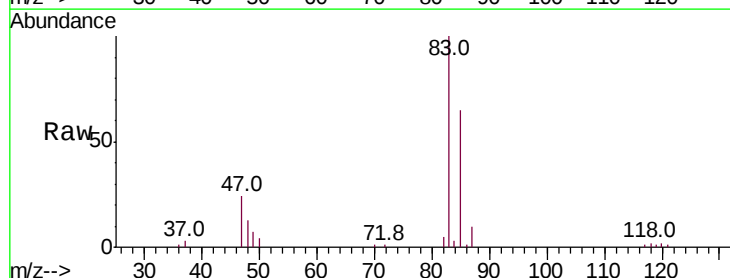
Acq: 19 Dec 2018 01:57

Tgt Ion: 83 Resp: 28157

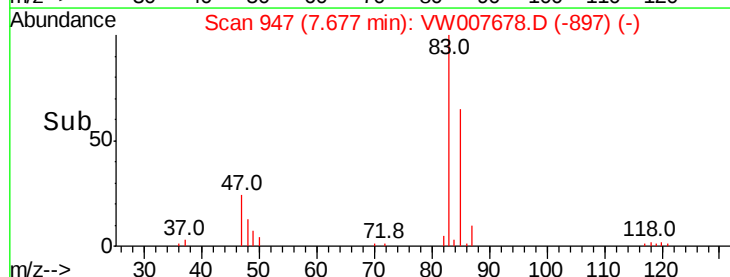
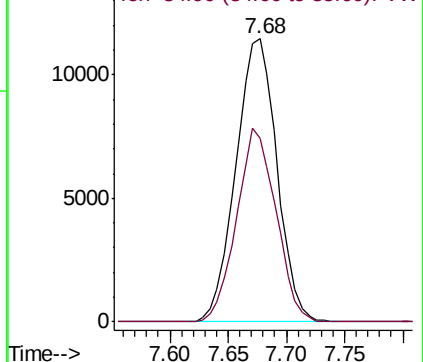
Ion Ratio Lower Upper

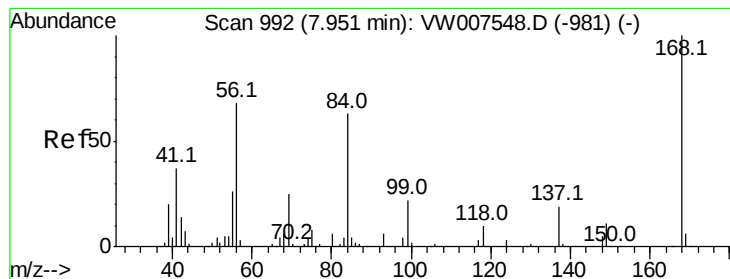
83 100

85 64.9 51.8 77.8



Abundance Ion 82.90 (82.60 to 83.60): VW
Ion 84.90 (84.60 to 85.60): VW





#31

Cyclohexane

Concen: 19.535 ug/l

RT: 7.96 min Scan# 993

Delta R.T. 0.01 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Instrument :

MSVOA_W

ClientSampled :

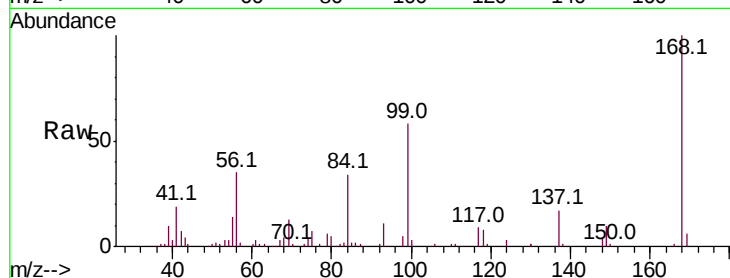
Tot Ion: 56 Resp: 20346

Ion Ratio Lower Upper

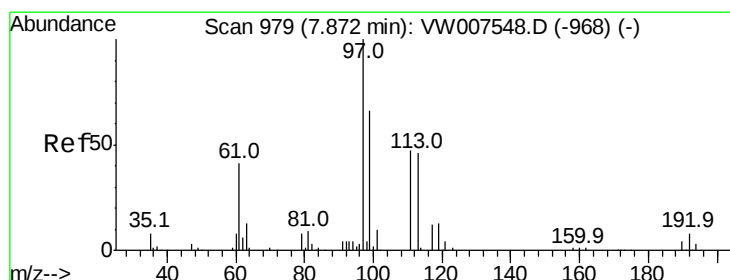
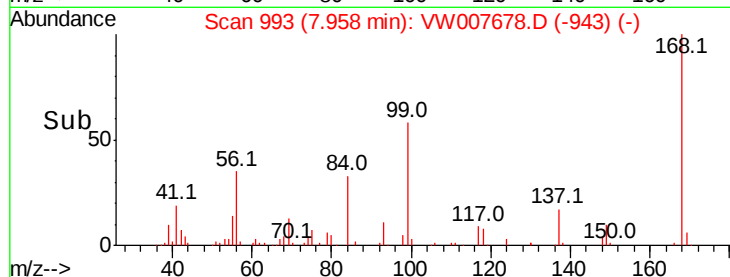
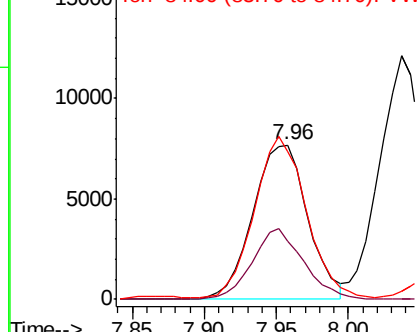
56 100

69 37.8 28.9 43.3

84 94.9 71.8 107.6



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



#32

1,1,1-Trichloroethane

Concen: 23.425 ug/l

RT: 7.87 min Scan# 979

Delta R.T. 0.01 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

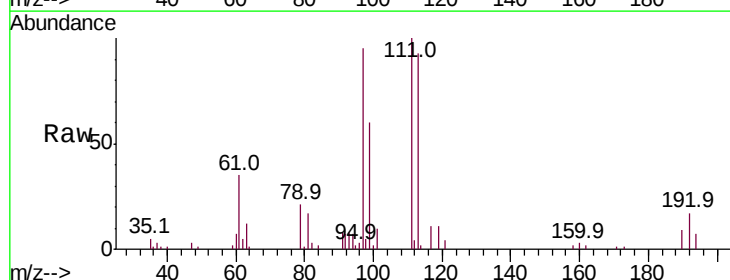
Tgt Ion: 97 Resp: 25376

Ion Ratio Lower Upper

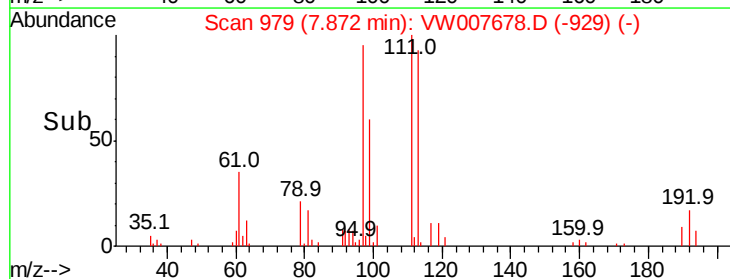
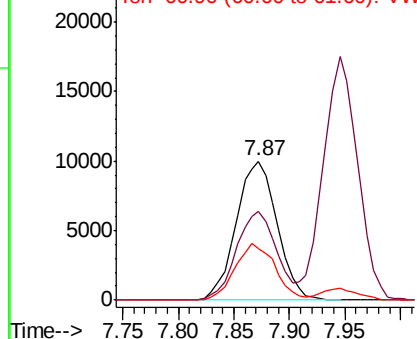
97 100

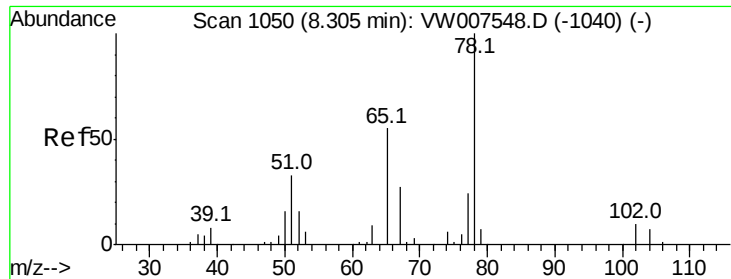
99 62.5 51.1 76.7

61 39.9 33.2 49.8



Abundance Ion 96.90 (96.60 to 97.60): VW
Ion 98.90 (98.60 to 99.60): VW
Ion 60.90 (60.60 to 61.60): VW

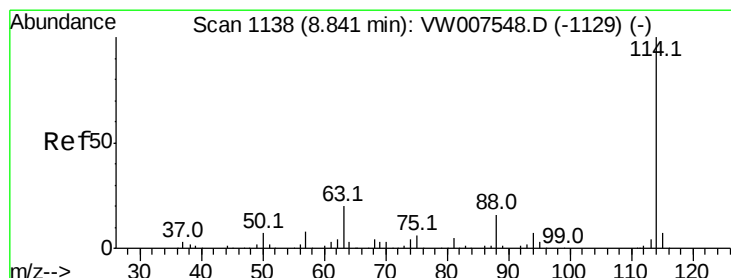
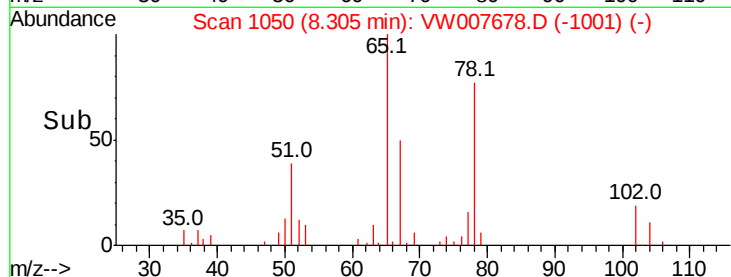
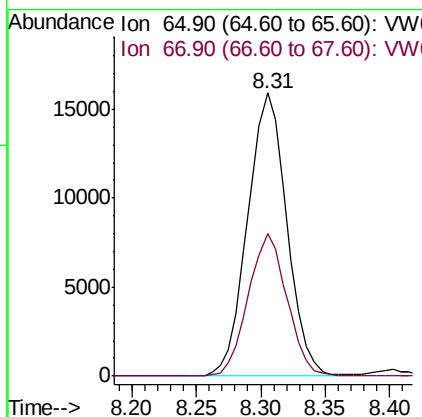
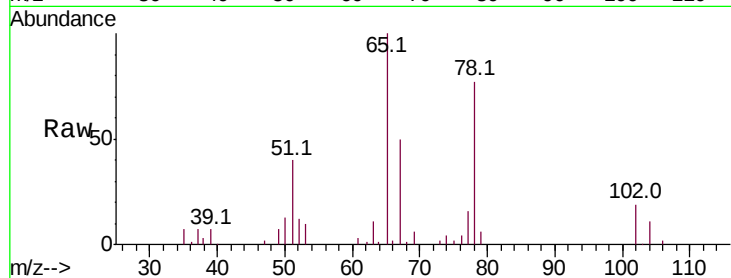




#33
 1,2-Dichloroethane-d4
 Concen: 49.845 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW007678.D
 Acq: 19 Dec 2018 01:57

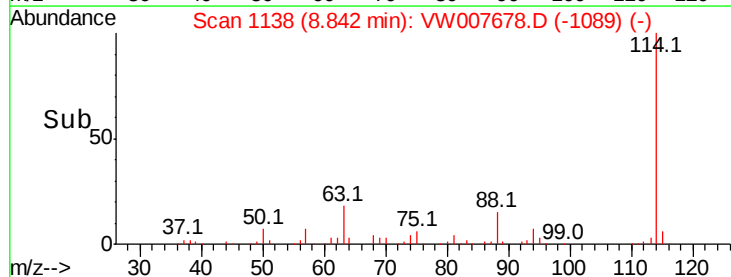
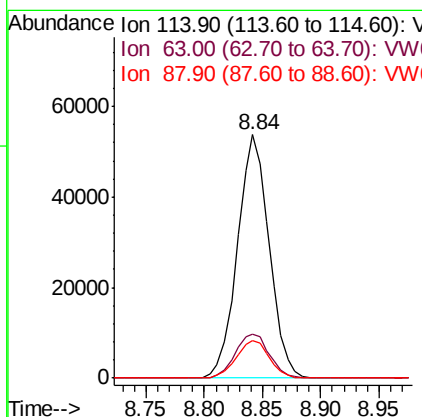
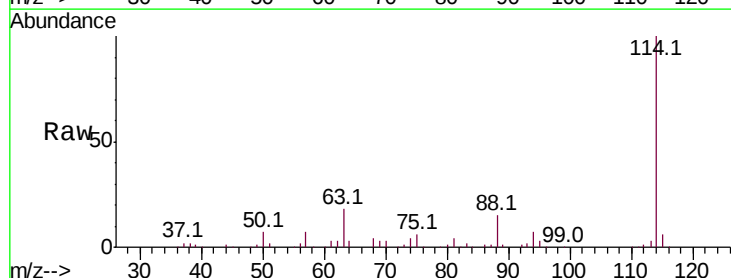
Instrument :
 MSVOA_W
 ClientSampled :

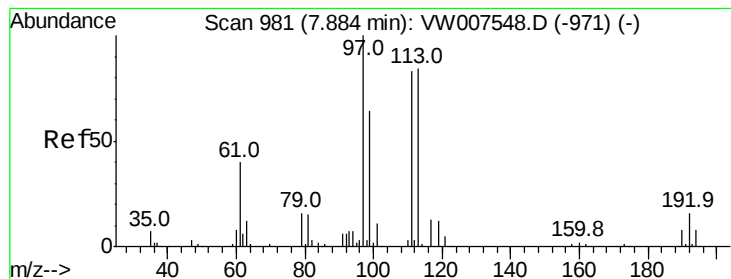
Tot Ion: 65 Resp: 33417
 Ion Ratio Lower Upper
 65 100
 67 49.7 0.0 101.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW007678.D
 Acq: 19 Dec 2018 01:57

Tgt Ion: 114 Resp: 101716
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 39.6
 88 15.4 0.0 31.4





#35

Dibromofluoromethane

Concen: 49.543 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Instrument :

MSVOA_W

ClientSampleId :

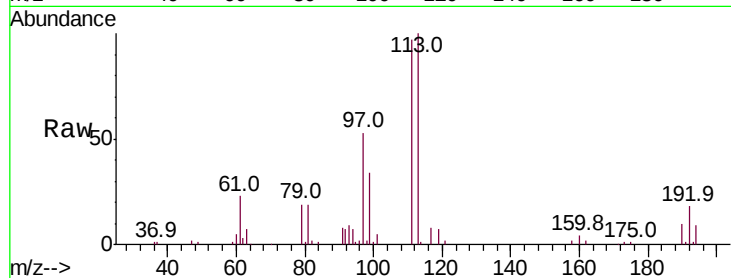
Tot Ion:113 Resp: 30505

Ion Ratio Lower Upper

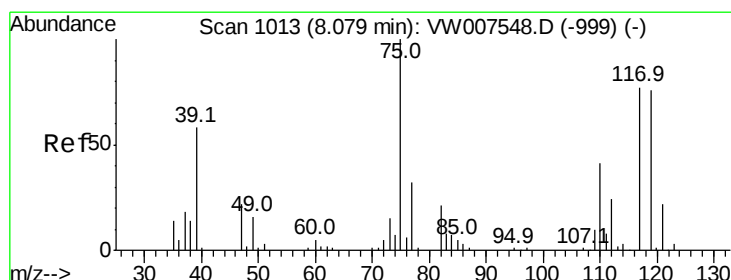
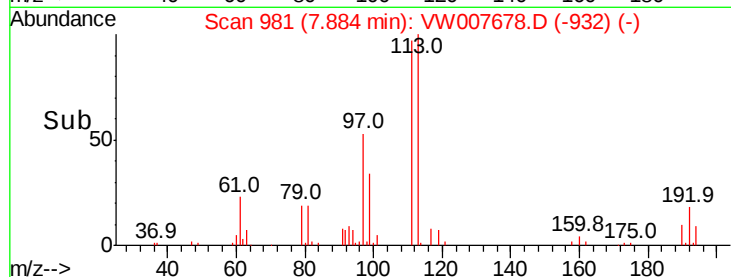
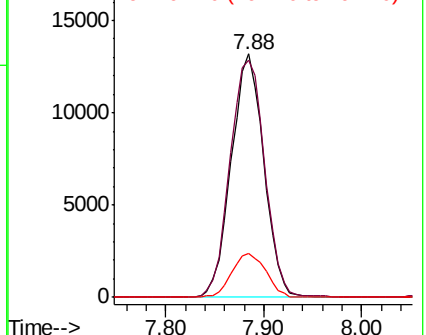
113 100

111 103.6 81.1 121.7

192 18.7 14.6 21.8



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 22.002 ug/l

RT: 8.08 min Scan# 1013

Delta R.T. -0.00 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

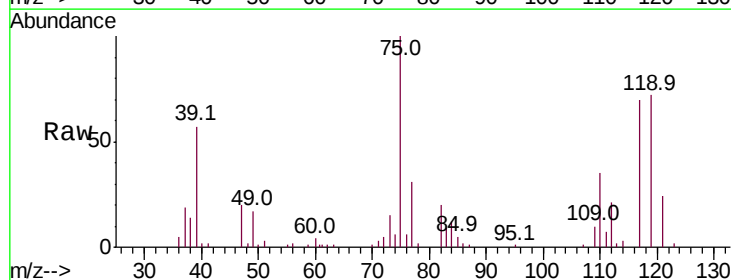
Tgt Ion: 75 Resp: 20415

Ion Ratio Lower Upper

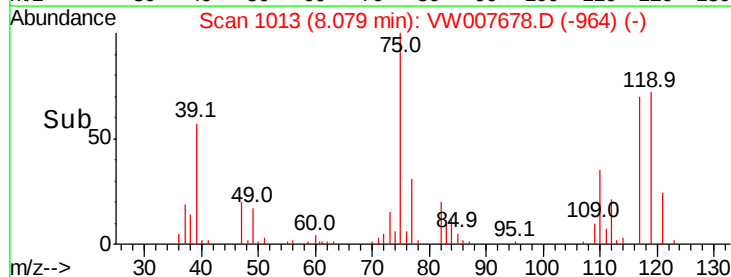
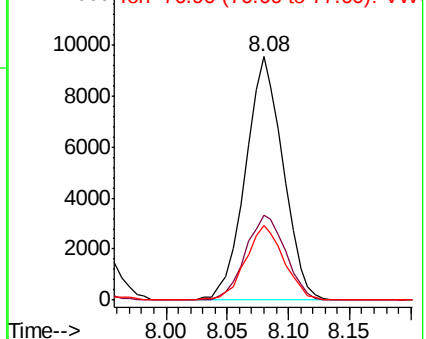
75 100

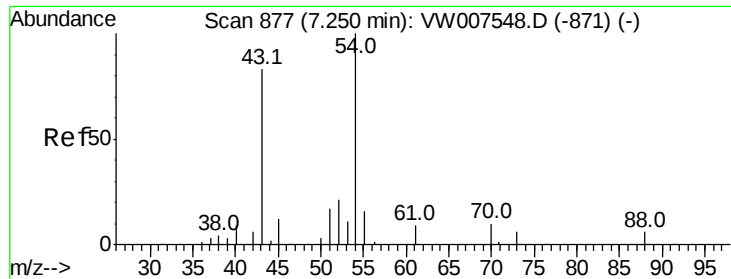
110 37.1 18.5 55.5

77 31.0 25.6 38.4



Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VW





#37

Ethyl Acetate

Concen: 19.591 ug/l

RT: 7.25 min Scan# 877

Delta R.T. -0.00 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Instrument :

MSVOA_W

ClientSampled :

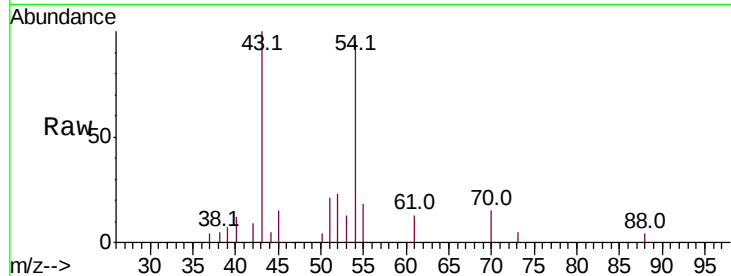
Tot Ion: 43 Resp: 6761

Ion Ratio Lower Upper

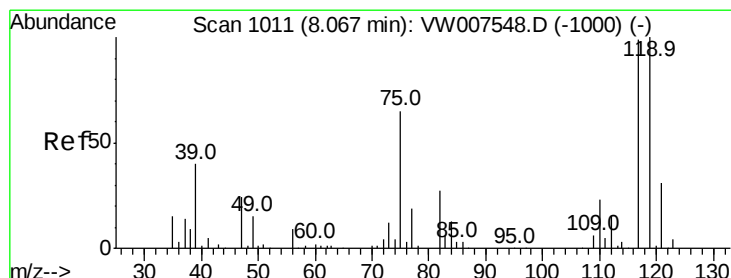
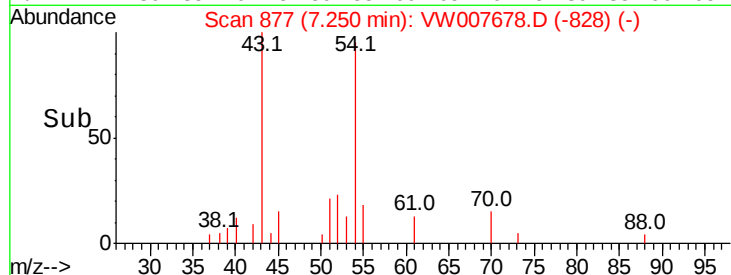
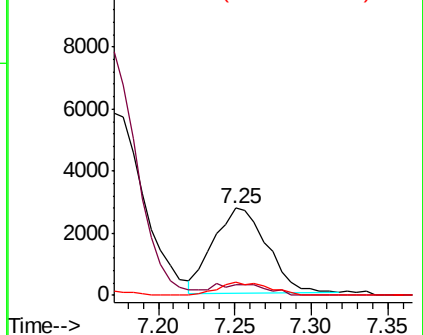
43 100

61 11.8 12.1 18.1#

70 14.1 10.0 15.0



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 70.00 (69.70 to 70.70): VW



#38

Carbon Tetrachloride

Concen: 23.454 ug/l

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

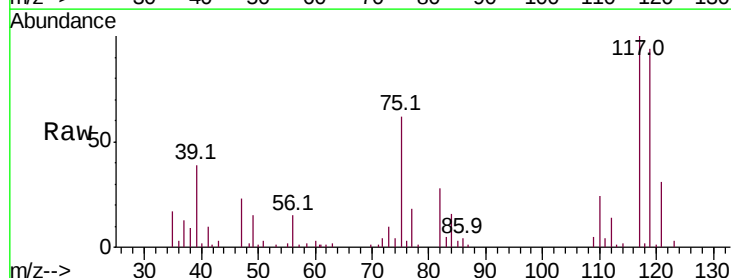
Tgt Ion: 117 Resp: 23680

Ion Ratio Lower Upper

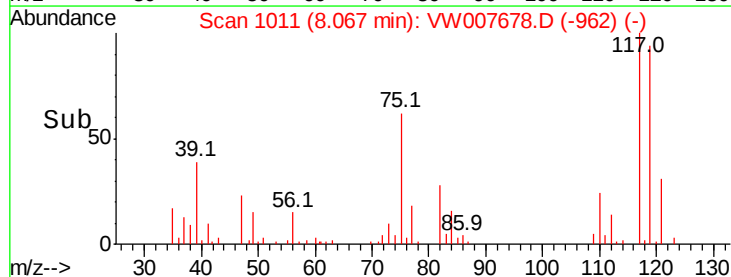
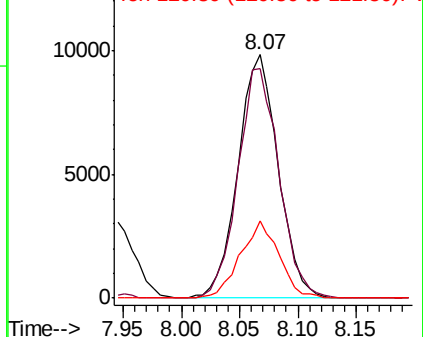
117 100

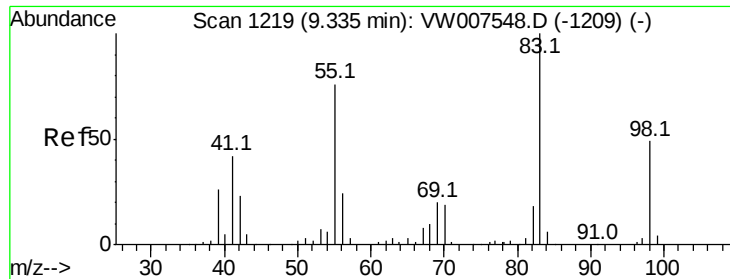
119 94.5 74.3 111.5

121 31.5 24.3 36.5



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

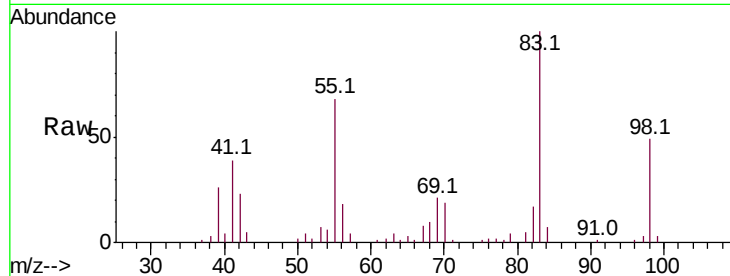




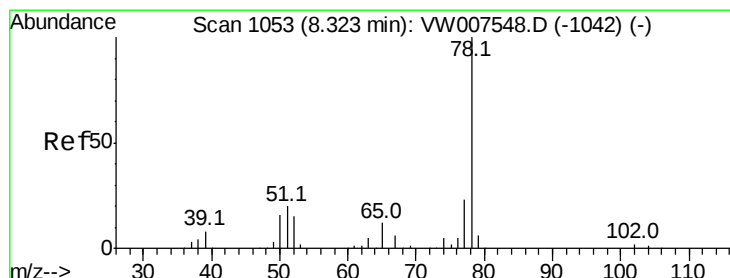
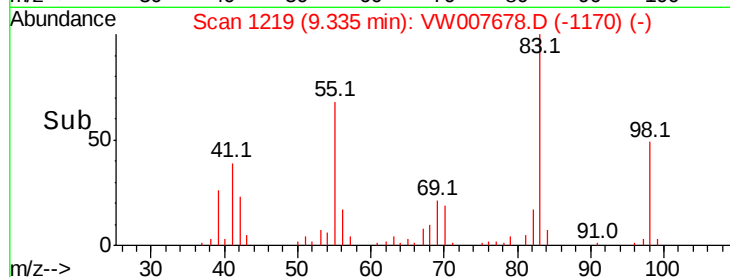
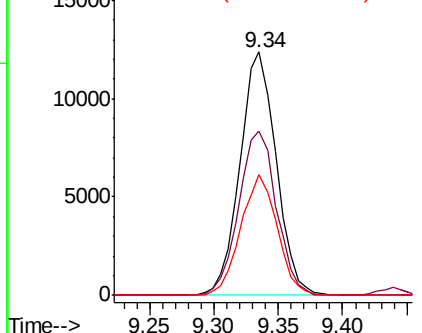
#39
Methvlcvclohexane
Concen: 21.417 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW007678.D
Acq: 19 Dec 2018 01:57

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 83 Resp: 24064
Ion Ratio Lower Upper
83 100
55 67.7 62.8 94.2
98 49.4 42.2 63.2

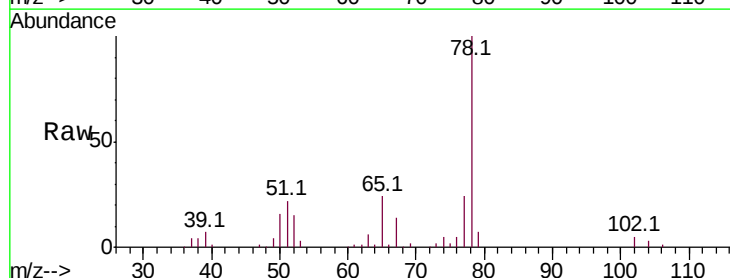


Abundance Ion 83.00 (82.70 to 83.70): VW
Ion 55.00 (54.70 to 55.70): VW
Ion 98.00 (97.70 to 98.70): VW

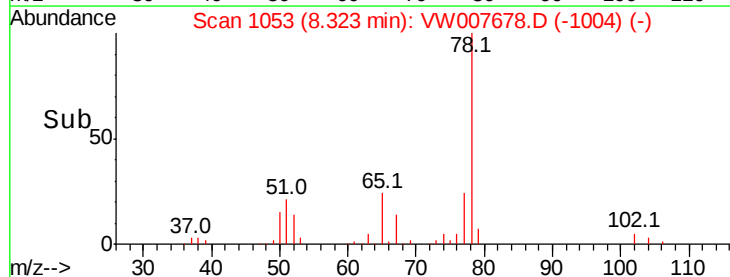
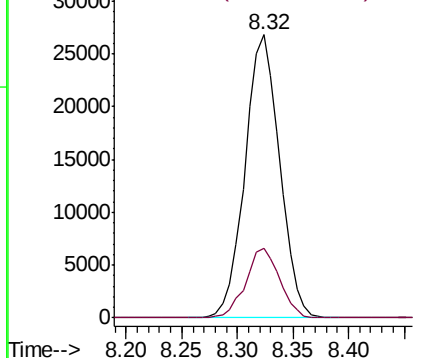


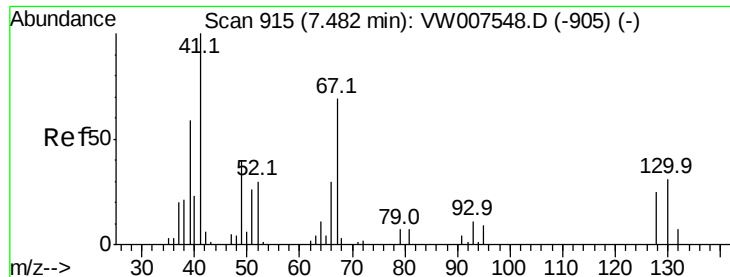
#40
Benzene
Concen: 22.568 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW007678.D
Acq: 19 Dec 2018 01:57

Tgt Ion: 78 Resp: 58113
Ion Ratio Lower Upper
78 100
77 24.4 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VW
Ion 77.00 (76.70 to 77.70): VW





#41

Methacrylonitrile

Concen: 22.282 ug/l

RT: 7.49 min Scan# 916

Delta R.T. 0.01 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 41 Resp: 4379

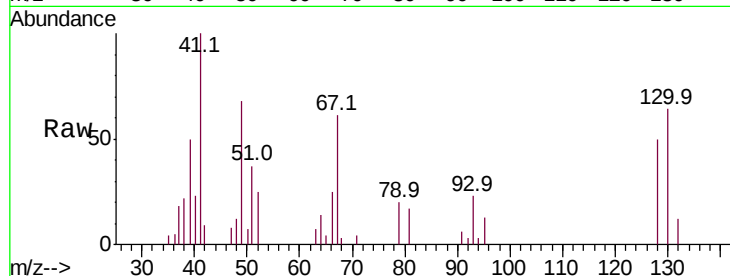
Ion Ratio Lower Upper

41 100

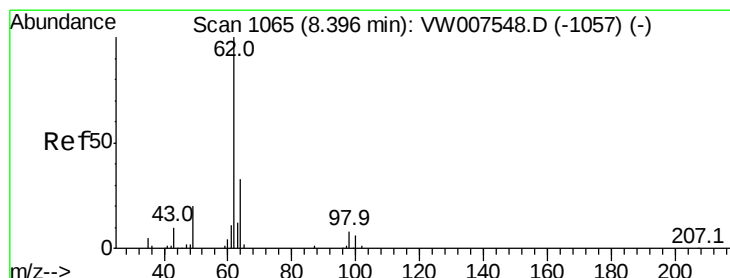
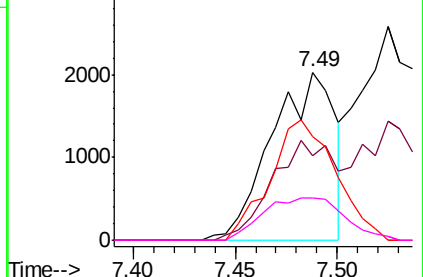
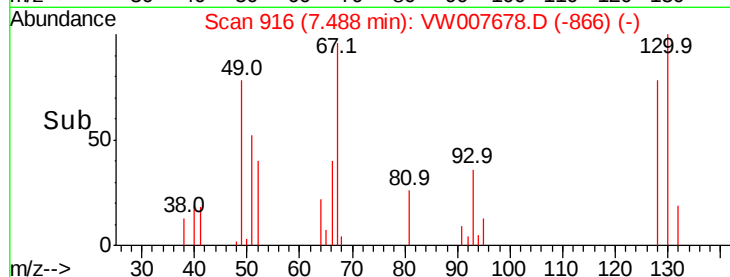
39 58.0 52.2 78.2

67 73.9 60.5 90.7

52 32.4 25.3 37.9



Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 67.00 (66.70 to 67.70): VW
Ion 52.00 (51.70 to 52.70): VW



#42

1,2-Dichloroethane

Concen: 23.835 ug/l

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW007678.D

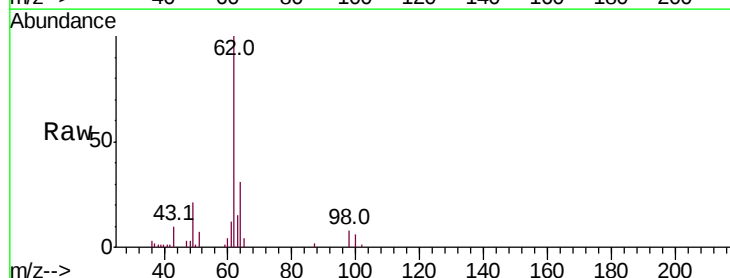
Acq: 19 Dec 2018 01:57

Tgt Ion: 62 Resp: 19280

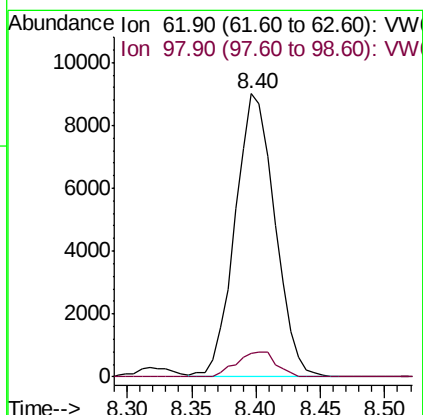
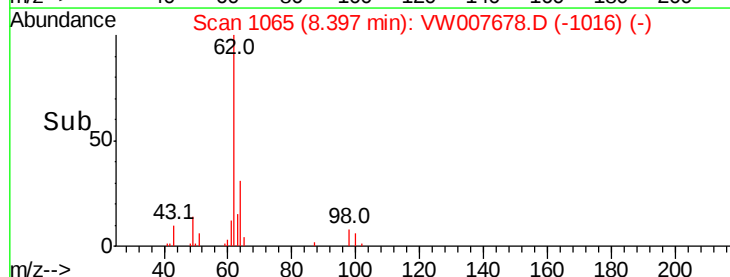
Ion Ratio Lower Upper

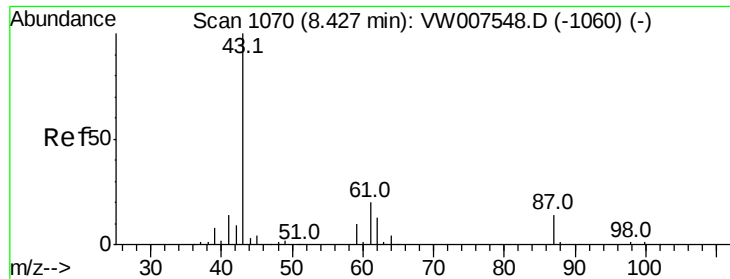
62 100

98 8.7 0.0 17.6



Abundance Ion 61.90 (61.60 to 62.60): VW
Ion 97.90 (97.60 to 98.60): VW





#43

Isopropyl Acetate

Concen: 21.371 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. -0.01 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Instrument :

MSVOA_W

ClientSampleId :

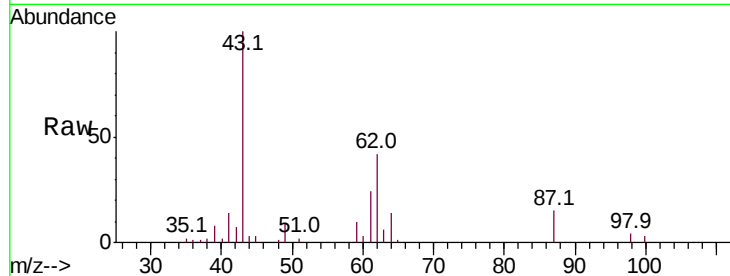
Tot Ion: 43 Resp: 14569

Ion Ratio Lower Upper

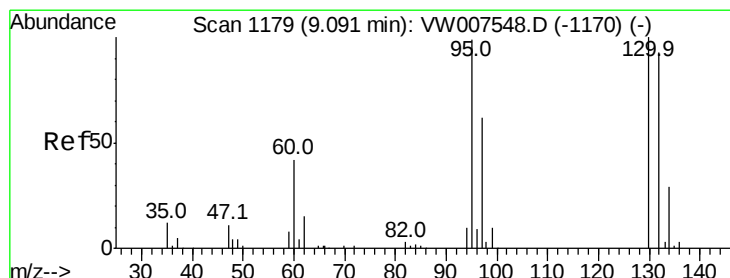
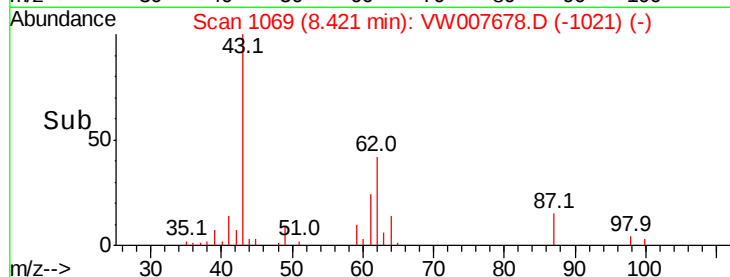
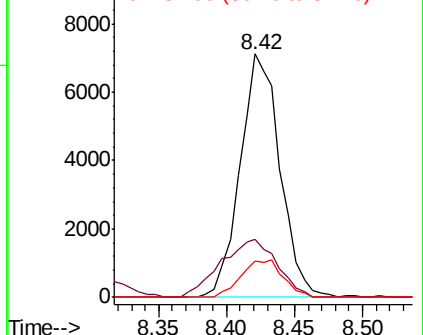
43 100

61 33.4 25.3 37.9

87 16.3 11.8 17.8



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 61.00 (60.70 to 61.70): VW
Ion 87.00 (86.70 to 87.70): VW



#44

Trichloroethene

Concen: 23.016 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW007678.D

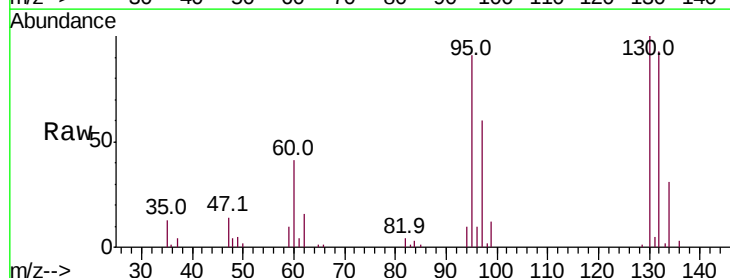
Acq: 19 Dec 2018 01:57

Tgt Ion:130 Resp: 16924

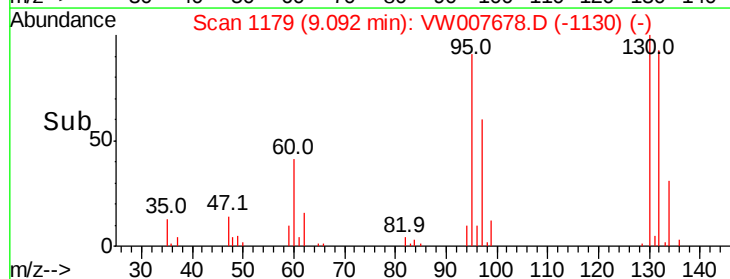
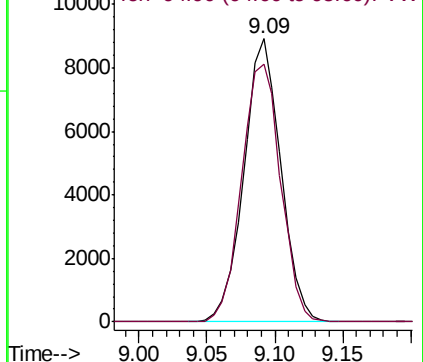
Ion Ratio Lower Upper

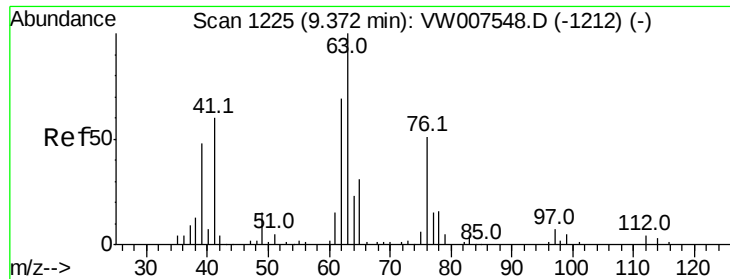
130 100

95 91.1 0.0 193.2



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VW





#45

1,2-Dichloropropane

Concen: 22.541 ug/l

RT: 9.37 min Scan# 1225

Delta R.T. 0.01 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Instrument :

MSVOA_W

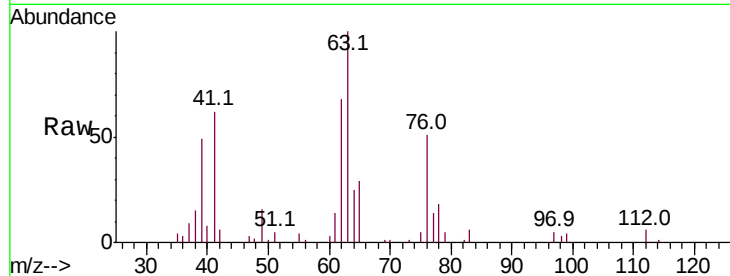
ClientSampleId :

Tot Ion: 63 Resp: 13432

Ion Ratio Lower Upper

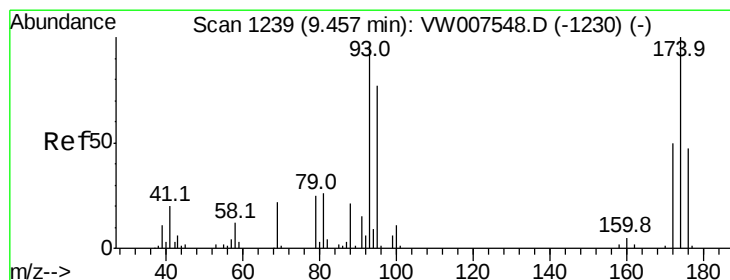
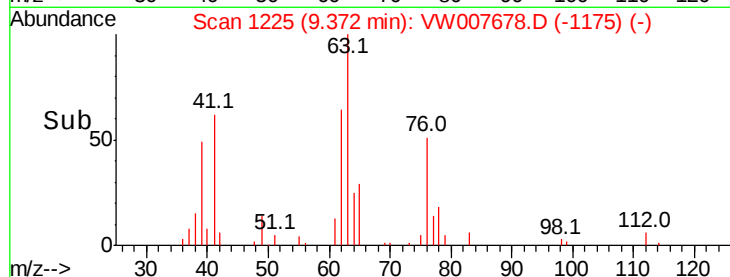
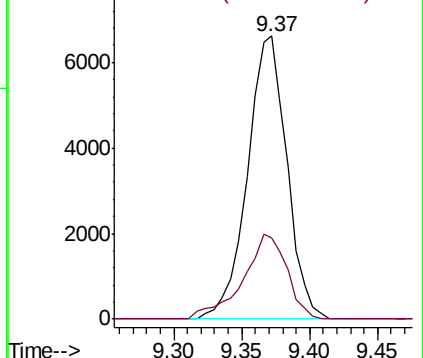
63 100

65 28.6 24.4 36.6



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 64.90 (64.60 to 65.60): VW



#46

Dibromomethane

Concen: 23.395 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

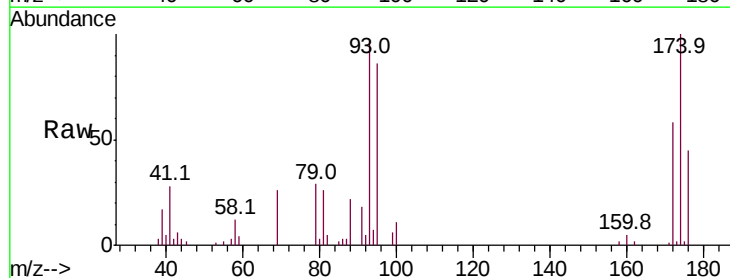
Tgt Ion: 93 Resp: 7917

Ion Ratio Lower Upper

93 100

95 86.0 68.0 102.0

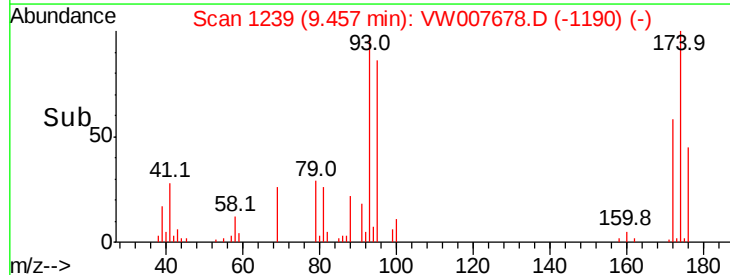
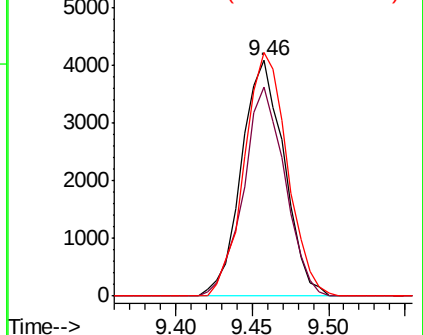
174 104.0 83.2 124.8

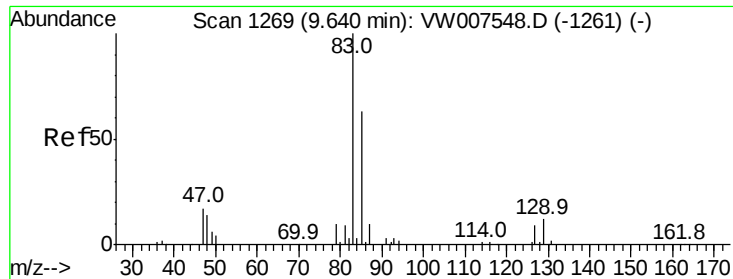


Abundance Ion 92.80 (92.50 to 93.50): VW

Ion 94.80 (94.50 to 95.50): VW

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 23.630 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. 0.01 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Instrument :

MSVOA_W

ClientSampleId :

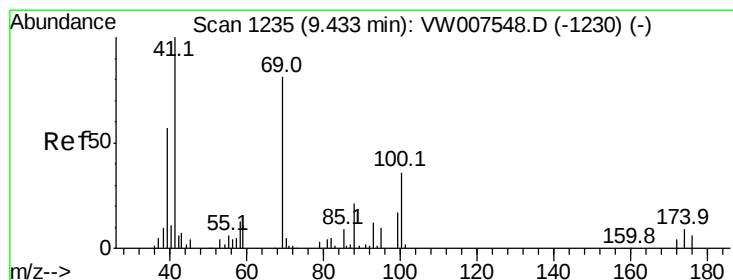
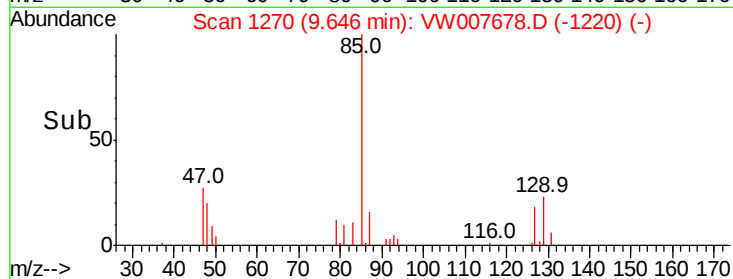
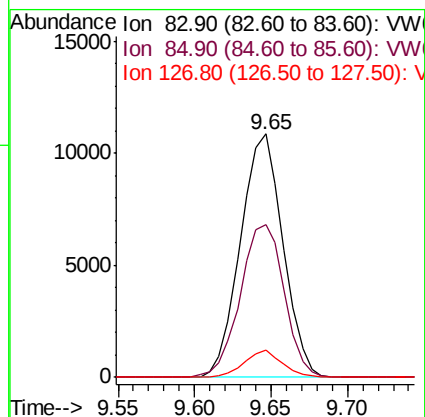
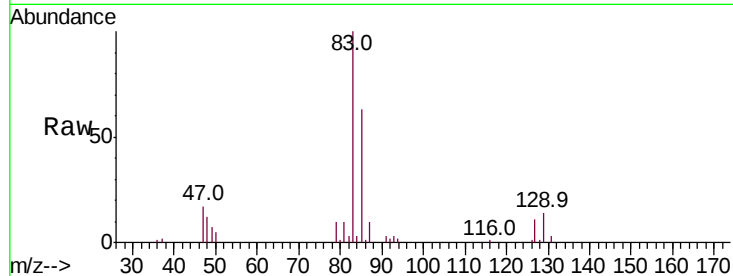
Tot Ion: 83 Resp: 20975

Ion Ratio Lower Upper

83 100

85 62.9 47.6 71.4

127 11.3 6.7 10.1#



#48

Methyl methacrylate

Concen: 20.870 ug/l

RT: 9.43 min Scan# 1235

Delta R.T. -0.01 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

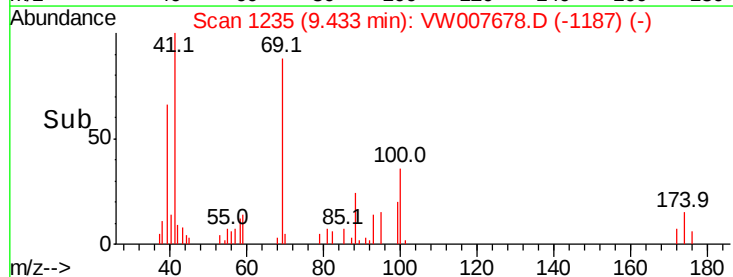
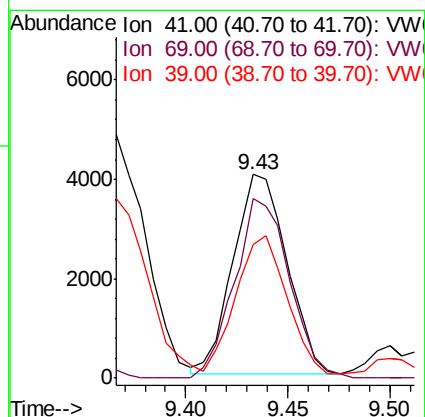
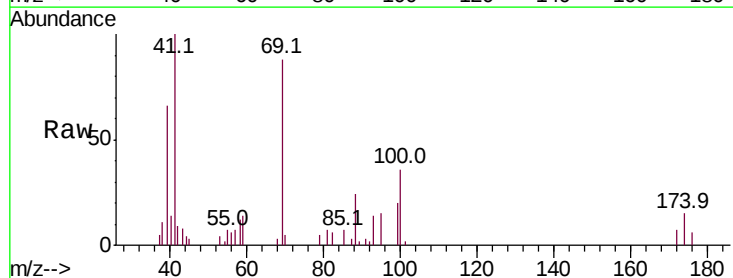
Tgt Ion: 41 Resp: 7307

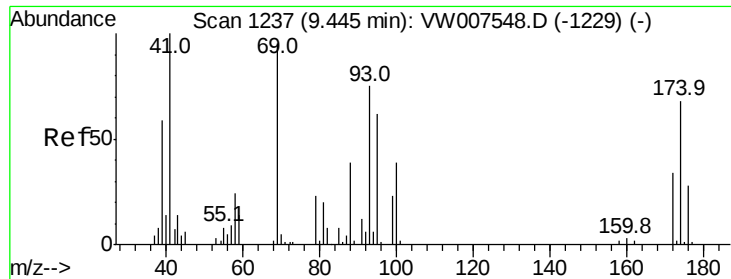
Ion Ratio Lower Upper

41 100

69 92.8 69.8 104.8

39 70.7 50.9 76.3





#49

1,4-Dioxane

Concen: 515.044 ug/l

RT: 9.45 min Scan# 1237

Delta R.T. -0.01 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Instrument :
MSVOA_W
ClientSampleId :

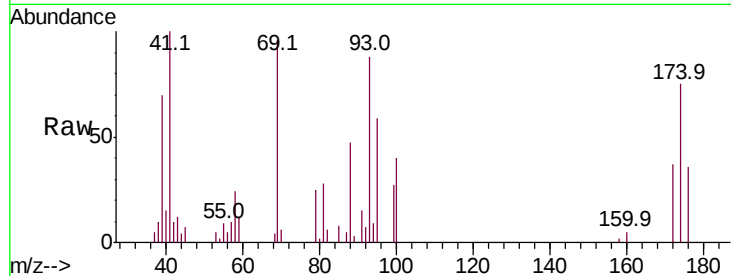
Tot Ion: 88 Resp: 2828

Ion Ratio Lower Upper

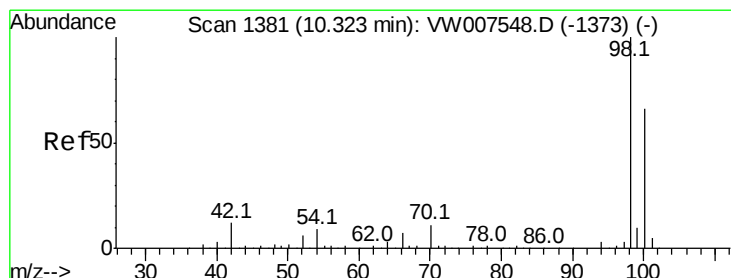
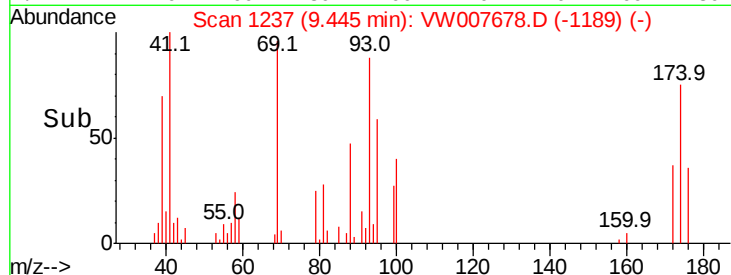
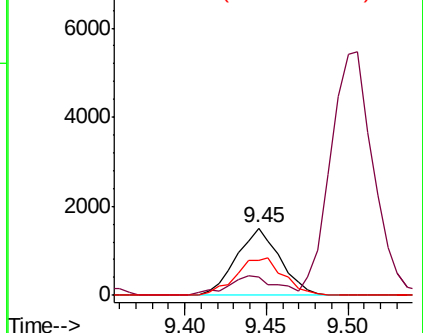
88 100

43 31.9 25.0 37.4

58 60.0 51.4 77.2



Abundance Ion 88.00 (87.70 to 88.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 48.413 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW007678.D

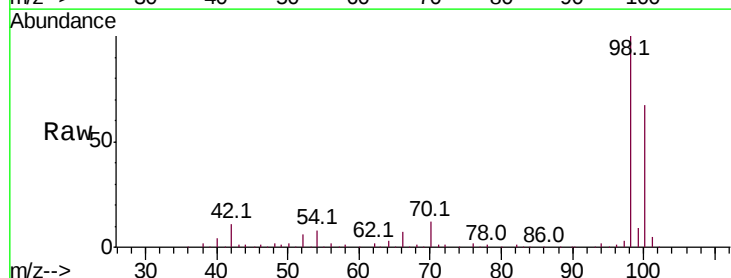
Acq: 19 Dec 2018 01:57

Tgt Ion: 98 Resp: 111767

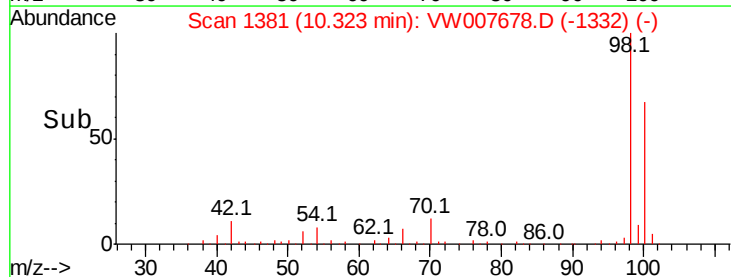
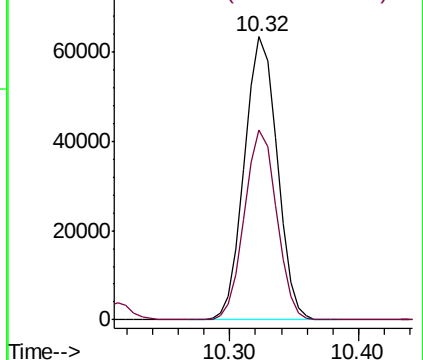
Ion Ratio Lower Upper

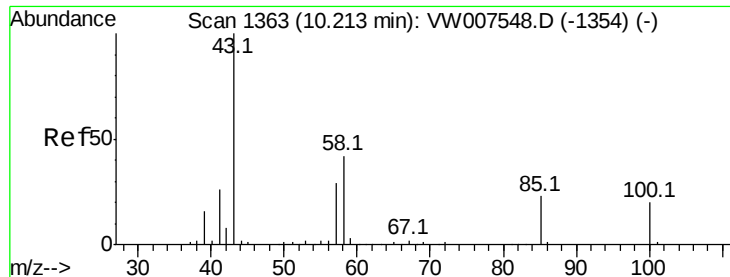
98 100

100 65.7 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 105.689 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Instrument :

MSVOA_W

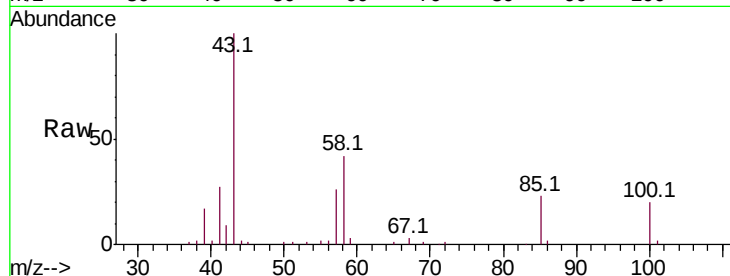
ClientSampleId :

Tot Ion: 43 Resp: 34043

Ion Ratio Lower Upper

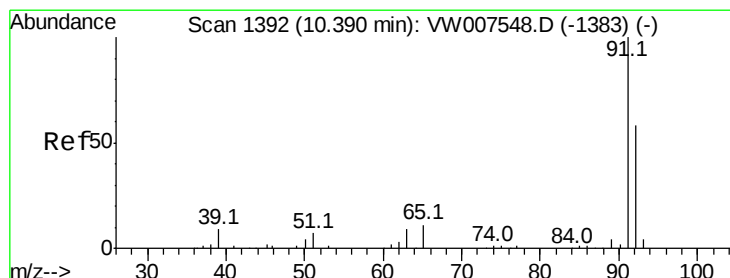
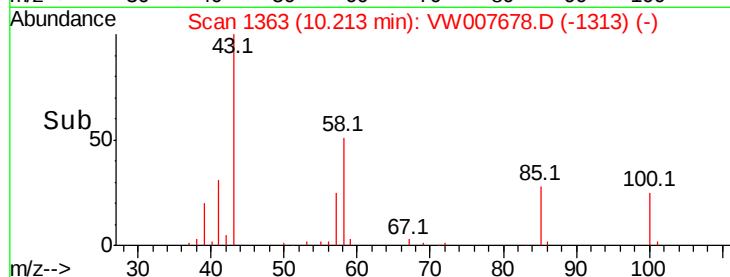
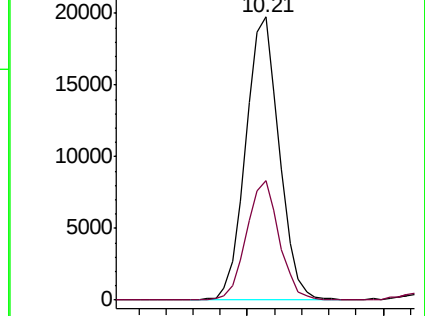
43 100

58 41.3 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#52

Toluene

Concen: 23.231 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW007678.D

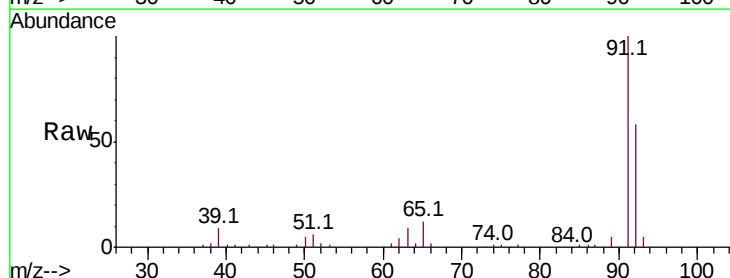
Acq: 19 Dec 2018 01:57

Tgt Ion: 92 Resp: 38713

Ion Ratio Lower Upper

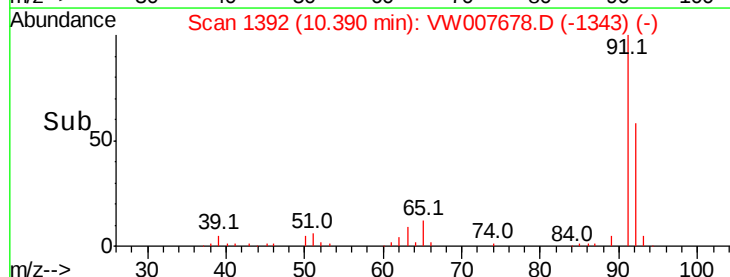
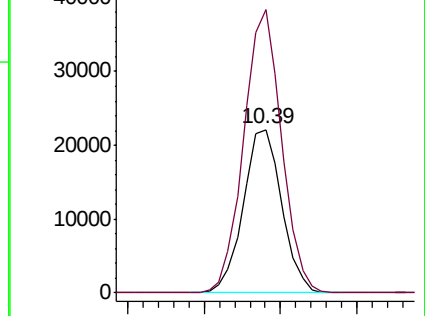
92 100

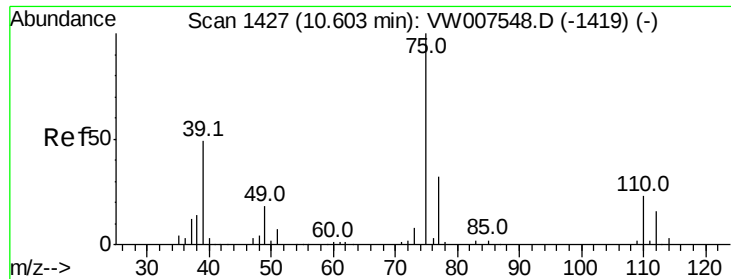
91 170.1 136.2 204.2



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW





#53

t-1,3-Dichloropropene

Concen: 22.767 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Instrument :

MSVOA_W

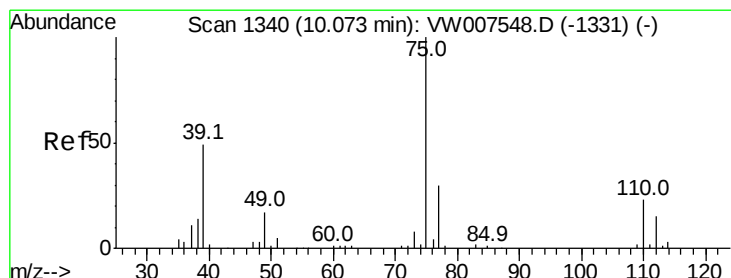
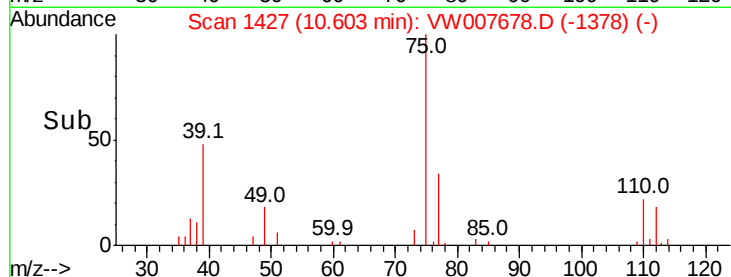
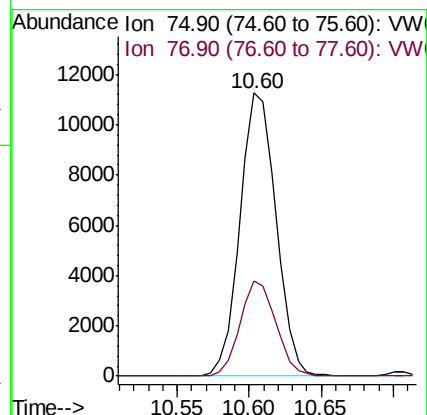
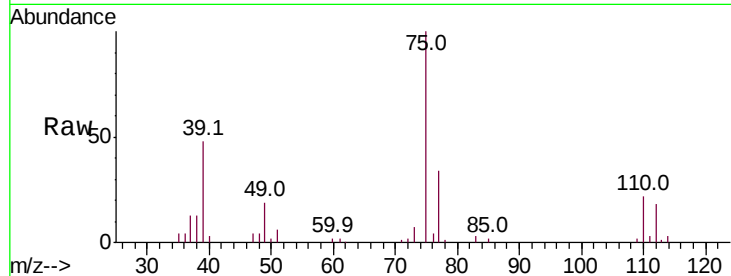
ClientSampled :

Tot Ion: 75 Resp: 19619

Ion Ratio Lower Upper

75 100

77 33.8 26.2 39.4



#54

cis-1,3-Dichloropropene

Concen: 22.206 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

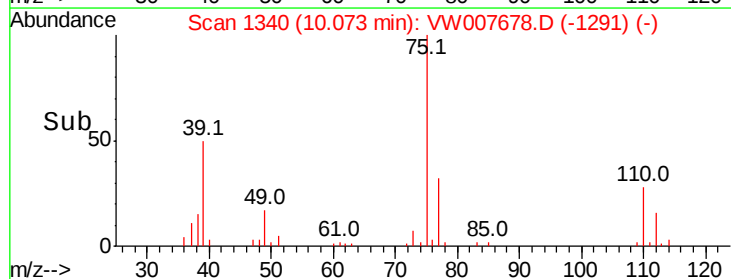
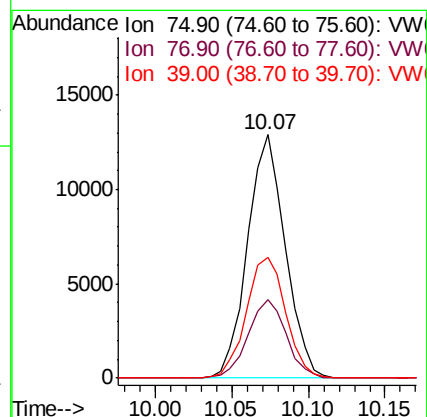
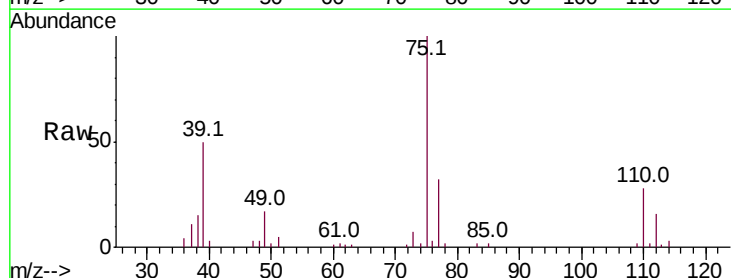
Tgt Ion: 75 Resp: 22121

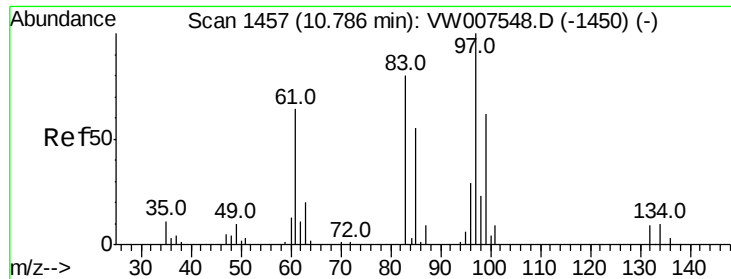
Ion Ratio Lower Upper

75 100

77 32.4 24.8 37.2

39 49.7 40.9 61.3





#55

1,1,2-Trichloroethane

Concen: 23.471 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. -0.01 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion: 97 Resp: 10810

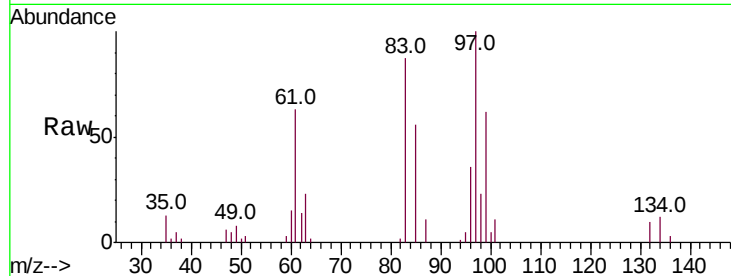
Ion Ratio Lower Upper

97 100

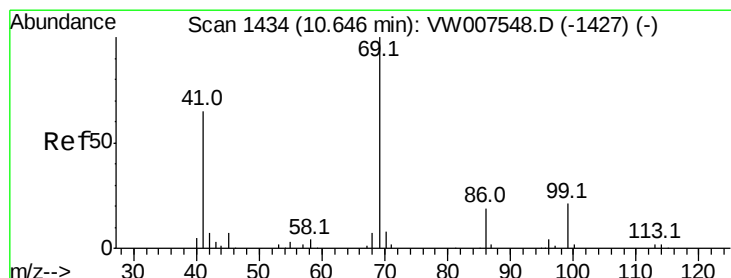
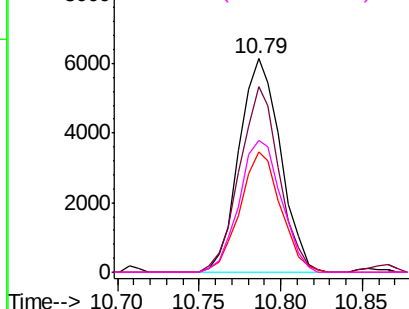
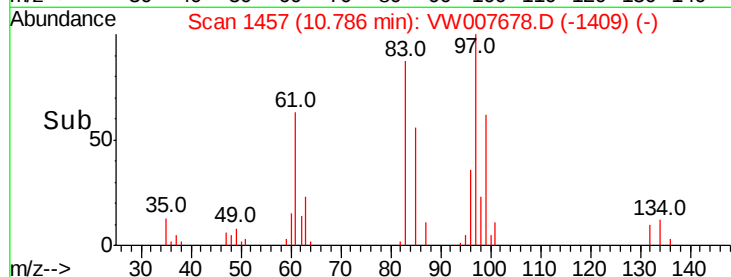
83 86.8 62.1 93.1

85 56.2 44.2 66.4

99 61.7 50.2 75.4



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



#56

Ethyl methacrylate

Concen: 22.506 ug/l

RT: 10.65 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

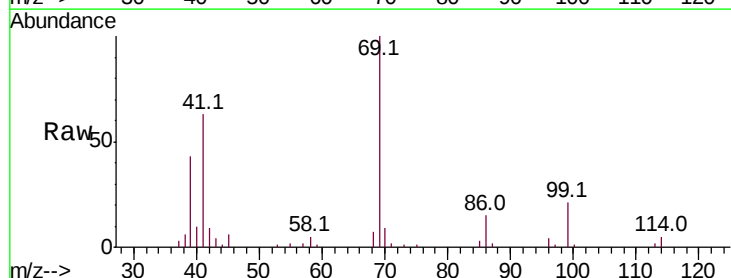
Tgt Ion: 69 Resp: 12459

Ion Ratio Lower Upper

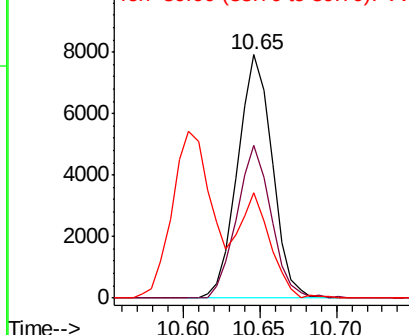
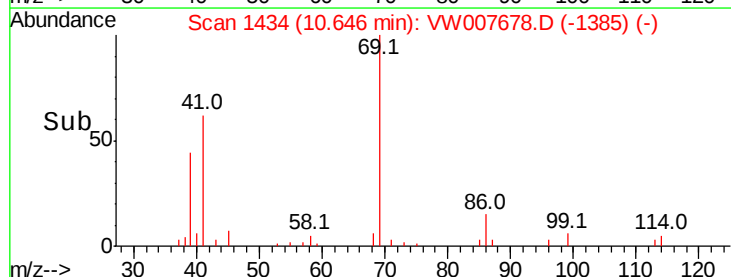
69 100

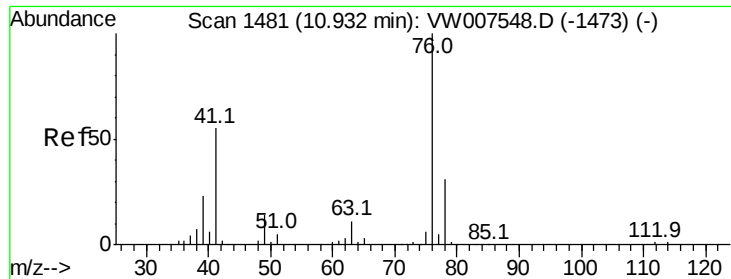
41 62.3 51.0 76.6

39 38.3 30.8 46.2



Abundance Ion 69.00 (68.70 to 69.70): VW
Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW

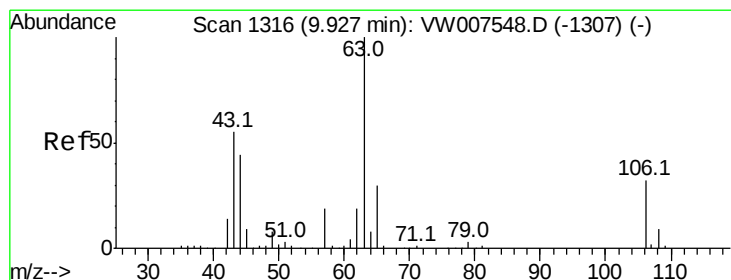
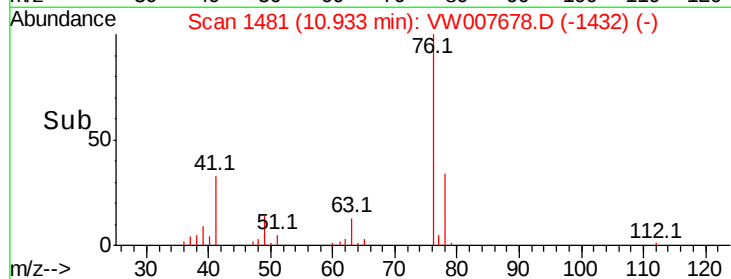
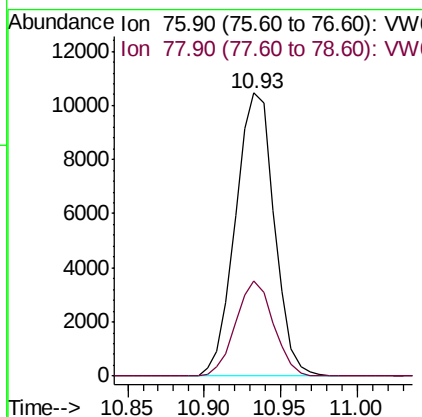
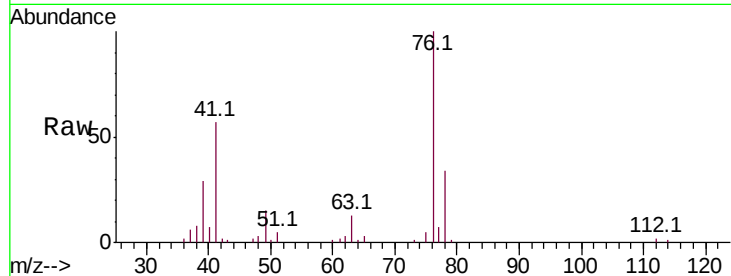




#57
 1,3-Dichloropropane
 Concen: 24.381 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. -0.00 min
 Lab File: VW007678.D
 Acq: 19 Dec 2018 01:57

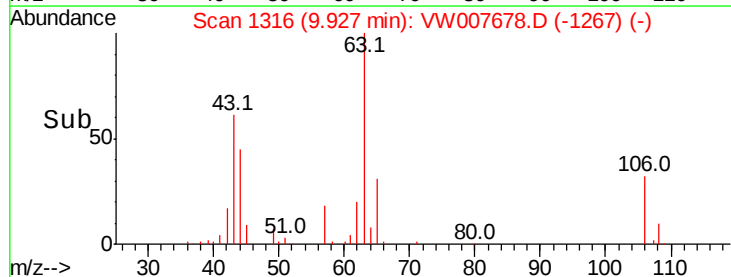
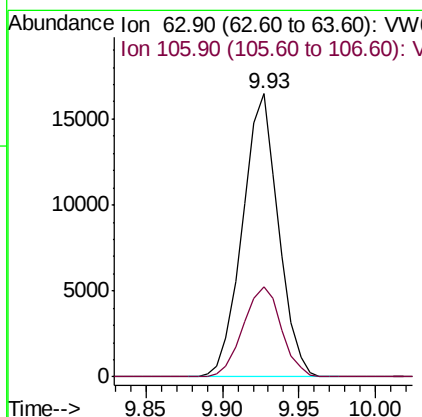
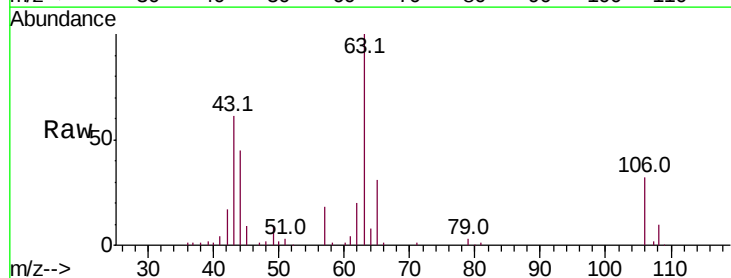
Instrument :
 MSVOA_W
 ClientSampled :

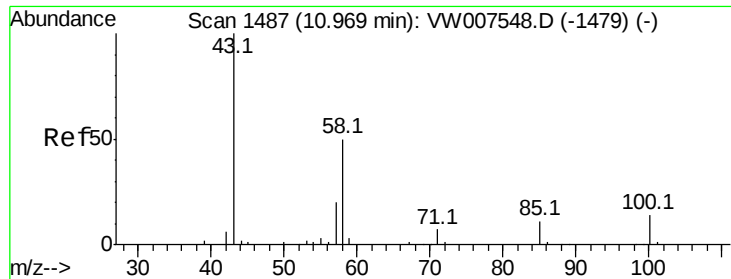
Tot Ion: 76 Resp: 18431
 Ion Ratio Lower Upper
 76 100
 78 32.7 26.2 39.4



#58
 2-Chloroethyl Vinyl ether
 Concen: 105.236 ug/l
 RT: 9.93 min Scan# 1316
 Delta R.T. -0.00 min
 Lab File: VW007678.D
 Acq: 19 Dec 2018 01:57

Tgt Ion: 63 Resp: 26865
 Ion Ratio Lower Upper
 63 100
 106 33.7 25.0 37.6





#59

2-Hexanone

Concen: 108.823 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Instrument :

MSVOA_W

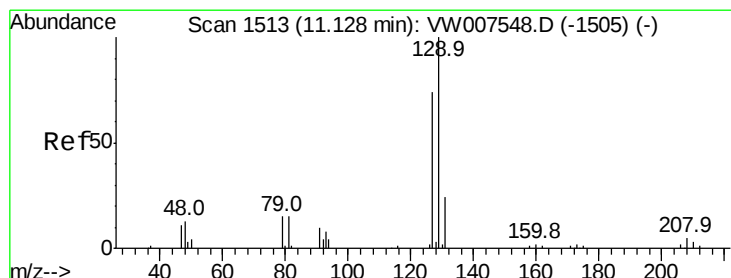
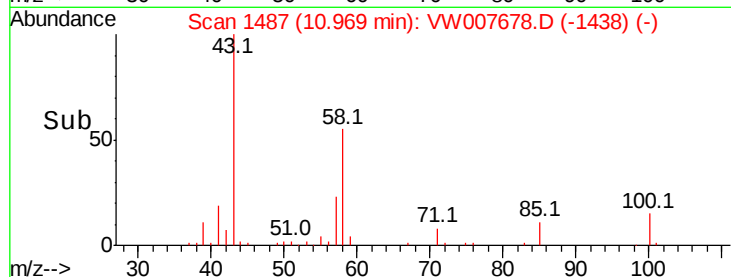
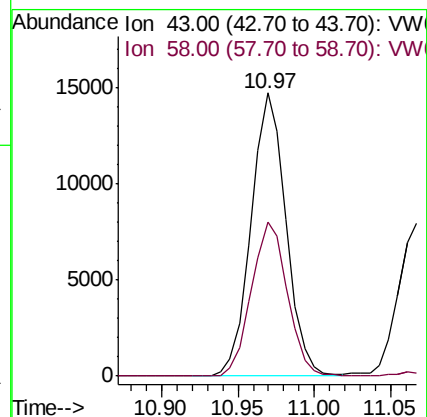
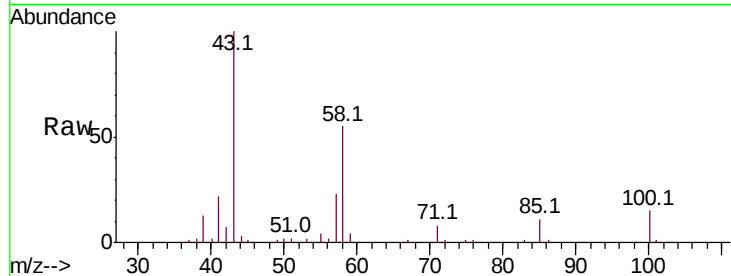
ClientSampleId :

Tot Ion: 43 Resp: 23373

Ion Ratio Lower Upper

43 100

58 55.9 27.1 81.3



#60

Dibromochloromethane

Concen: 24.887 ug/l

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW007678.D

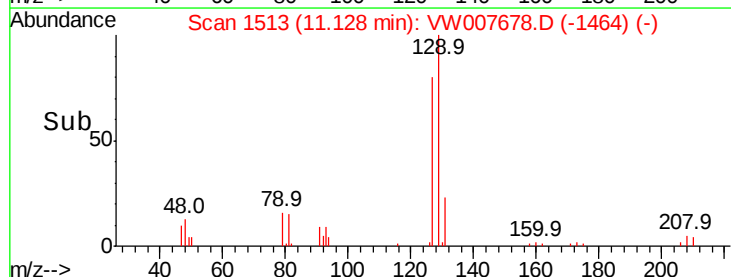
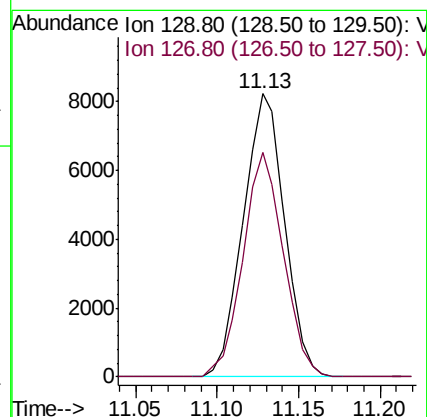
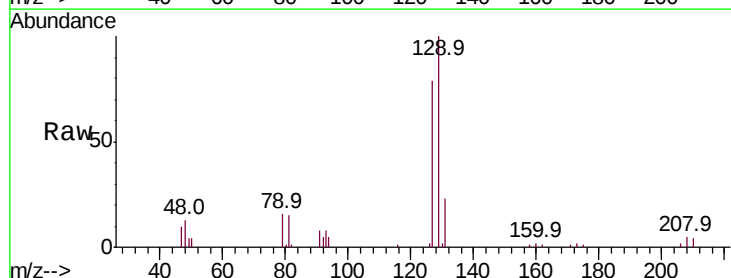
Acq: 19 Dec 2018 01:57

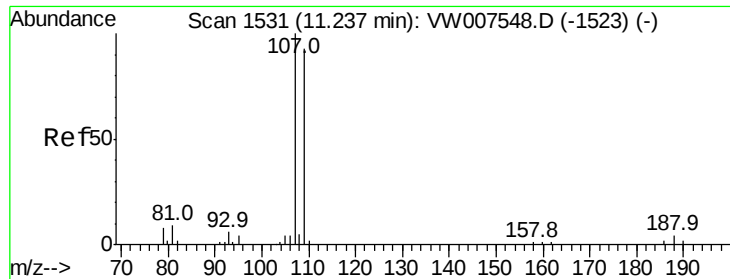
Tgt Ion:129 Resp: 14465

Ion Ratio Lower Upper

129 100

127 77.5 38.1 114.3

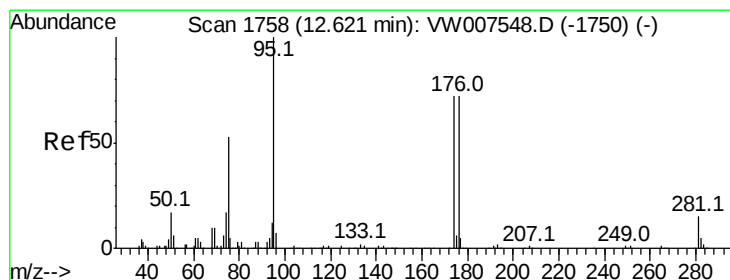
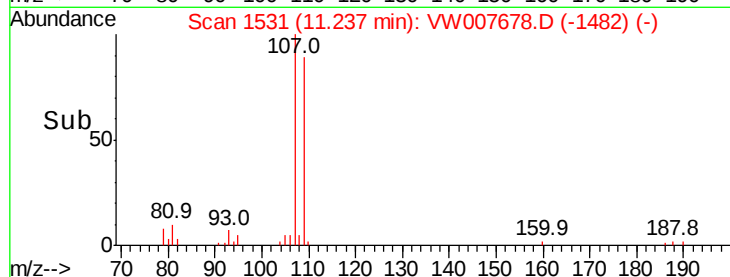
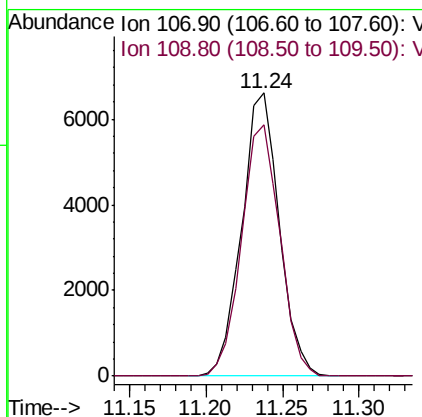
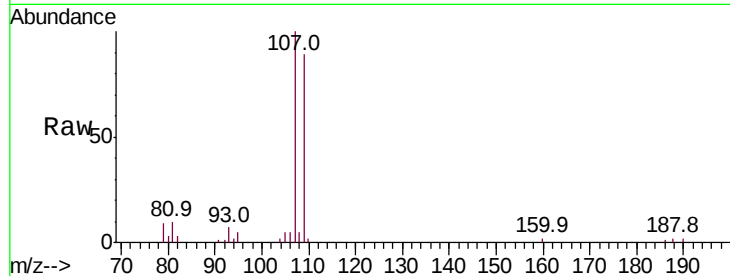




#61
 1,2-Dibromoethane
 Concen: 24.772 ug/l
 RT: 11.24 min Scan# 1531
 Delta R.T. -0.00 min
 Lab File: VW007678.D
 Acq: 19 Dec 2018 01:57

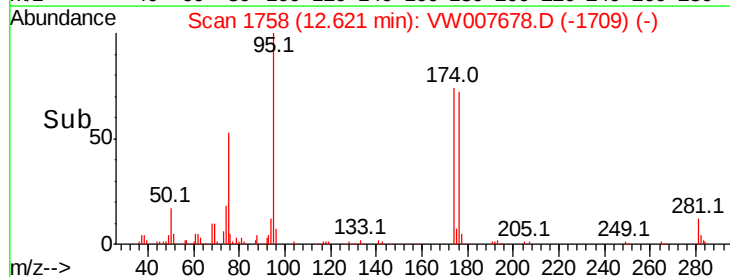
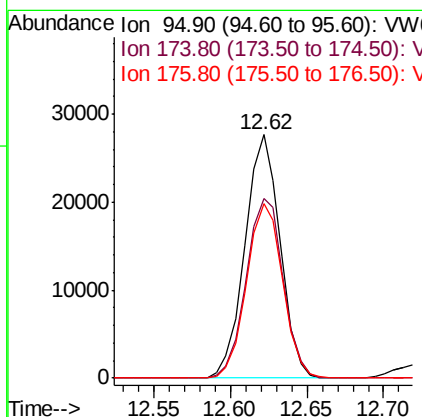
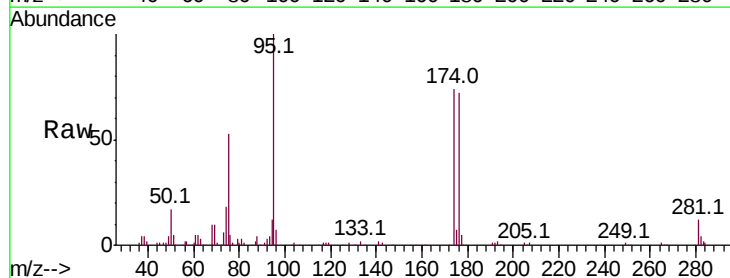
Instrument :
 MSVOA_W
 ClientSampleId :

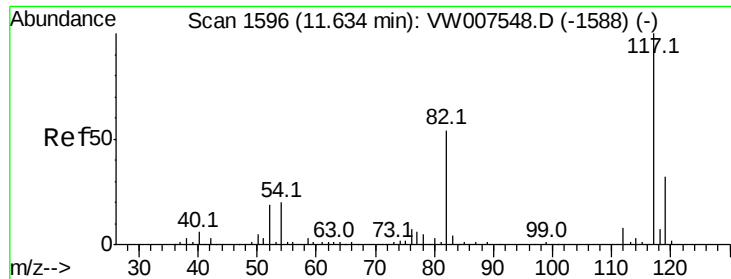
Tot Ion:107 Resp: 11275
 Ion Ratio Lower Upper
 107 100
 109 90.6 79.1 118.7



#62
 4-Bromofluorobenzene
 Concen: 51.789 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.00 min
 Lab File: VW007678.D
 Acq: 19 Dec 2018 01:57

Tgt Ion: 95 Resp: 43960
 Ion Ratio Lower Upper
 95 100
 174 77.7 0.0 147.2
 176 73.7 0.0 138.8

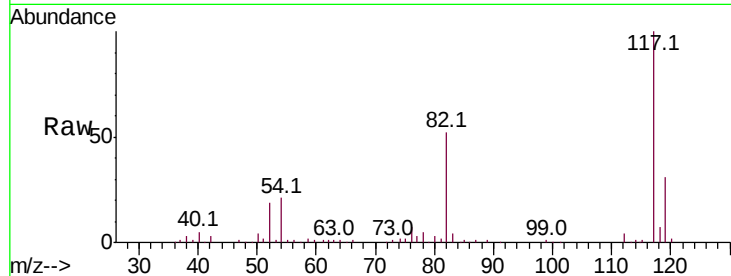




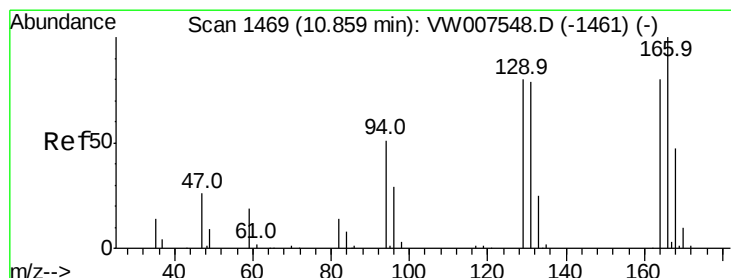
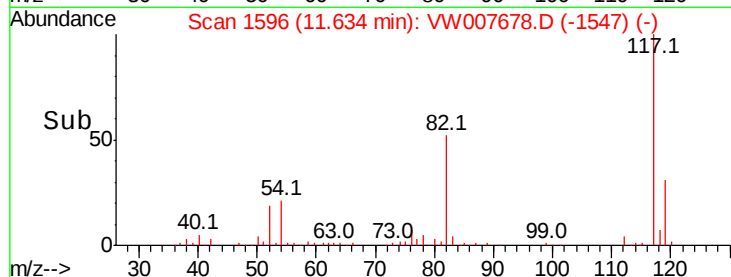
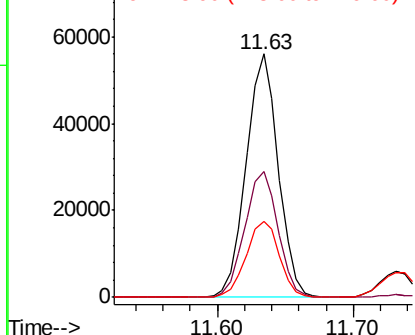
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW007678.D
Acq: 19 Dec 2018 01:57

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:117 Resp: 92365
Ion Ratio Lower Upper
117 100
82 52.0 42.3 63.5
119 31.3 23.0 34.6

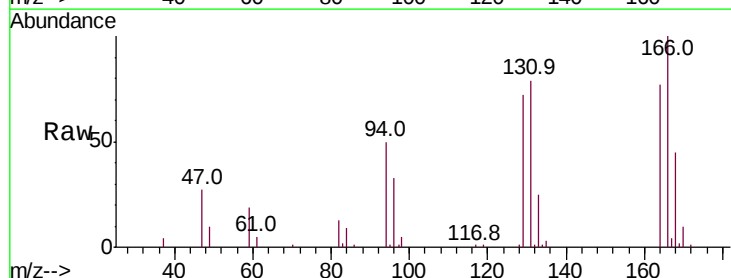


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VV
Ion 118.90 (118.60 to 119.60): V

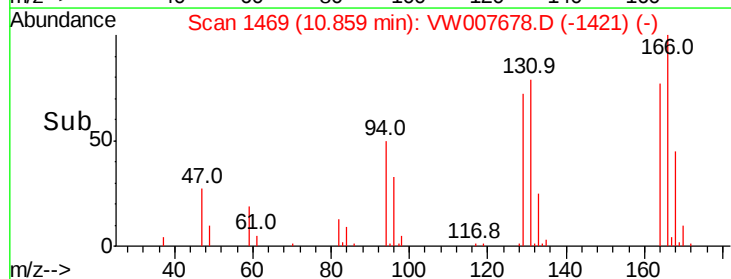
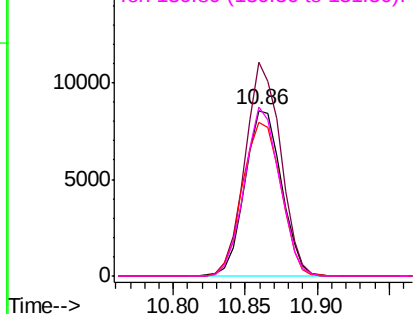


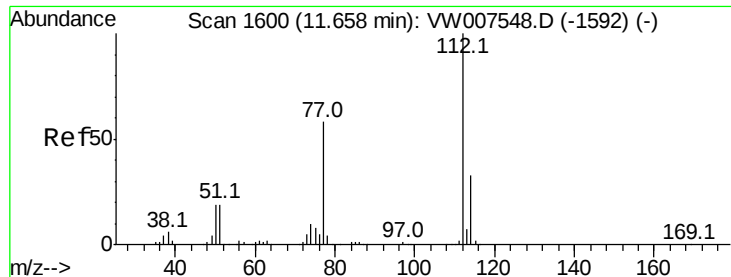
#64
Tetrachloroethene
Concen: 22.610 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.01 min
Lab File: VW007678.D
Acq: 19 Dec 2018 01:57

Tgt Ion:164 Resp: 15018
Ion Ratio Lower Upper
164 100
166 129.1 107.9 161.9
129 93.1 73.4 110.2
131 102.3 75.8 113.6



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

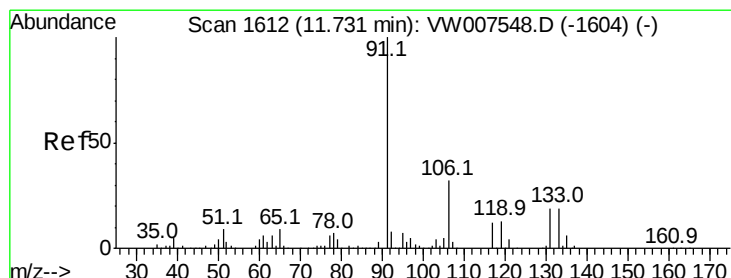
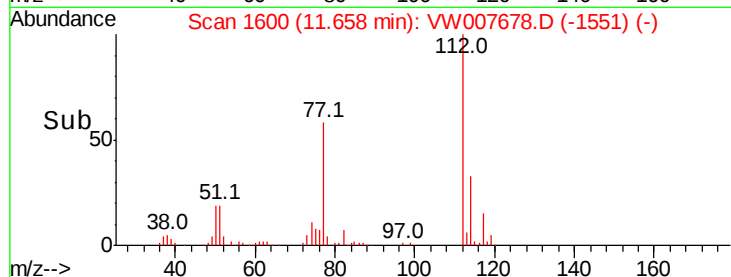
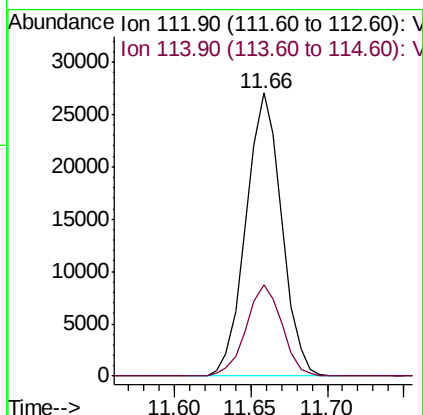
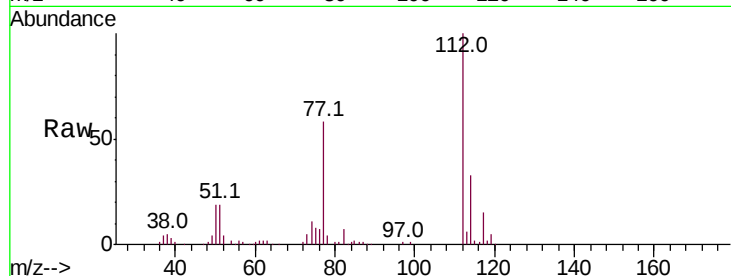




#65
Chlorobenzene
Concen: 22.840 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW007678.D
Acq: 19 Dec 2018 01:57

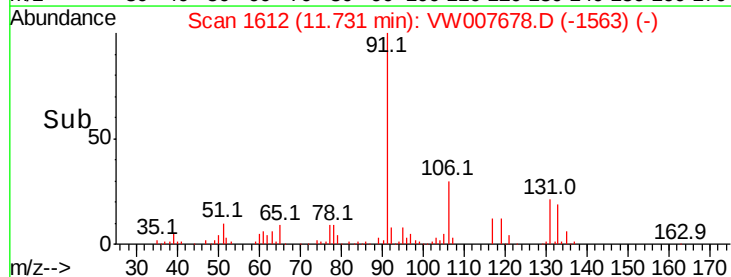
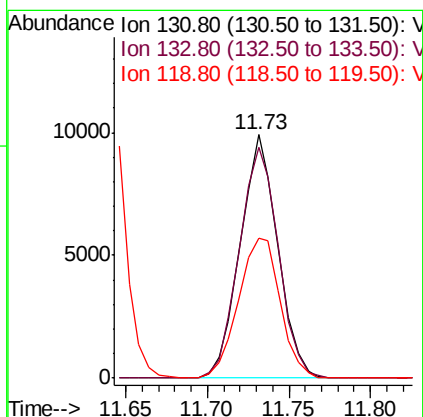
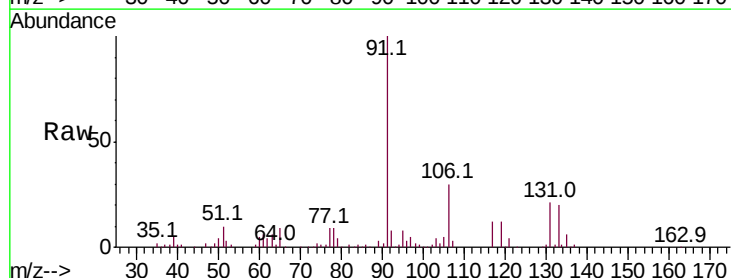
Instrument :
MSVOA_W
ClientSampleId :

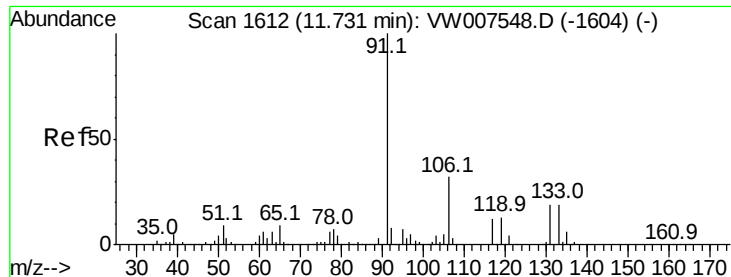
Tot Ion:112 Resp: 43971
Ion Ratio Lower Upper
112 100
114 32.5 27.8 41.8



#66
1,1,1,2-Tetrachloroethane
Concen: 23.373 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW007678.D
Acq: 19 Dec 2018 01:57

Tgt Ion:131 Resp: 15848
Ion Ratio Lower Upper
131 100
133 99.1 47.1 141.4
119 63.9 31.3 93.9

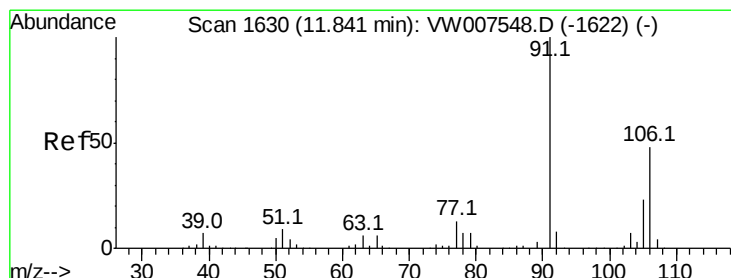
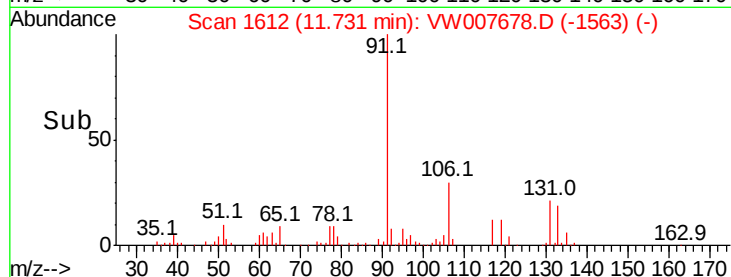
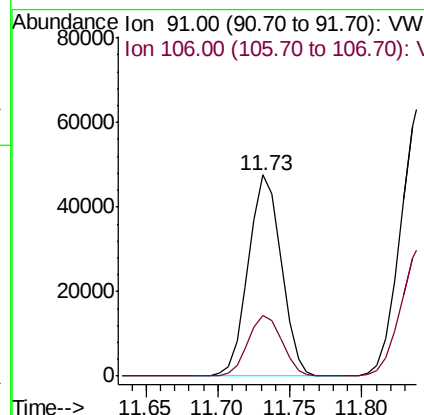
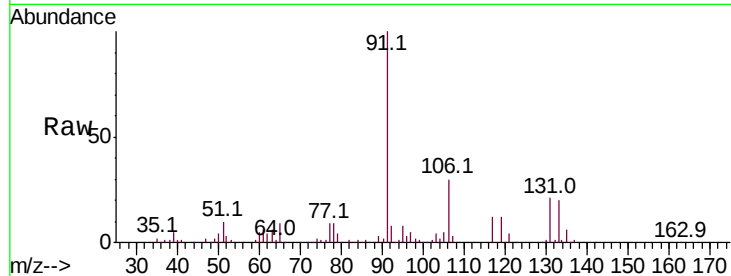




#67
Ethyl Benzene
Concen: 22.841 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW007678.D
Acq: 19 Dec 2018 01:57

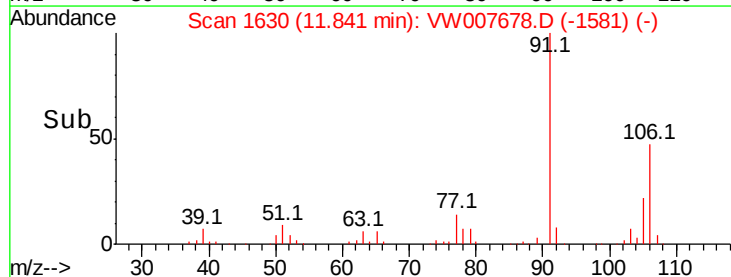
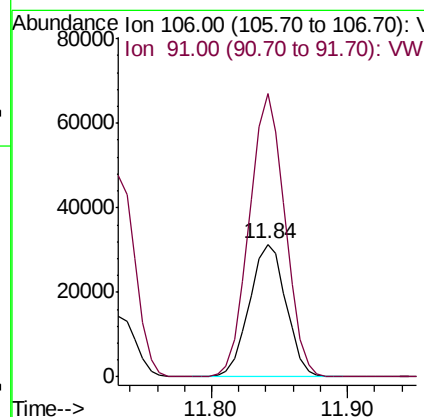
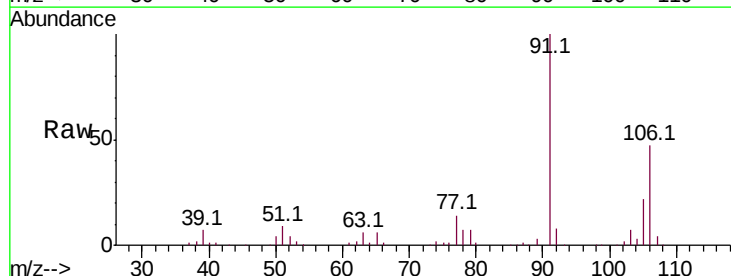
Instrument :
MSVOA_W
ClientSampled :

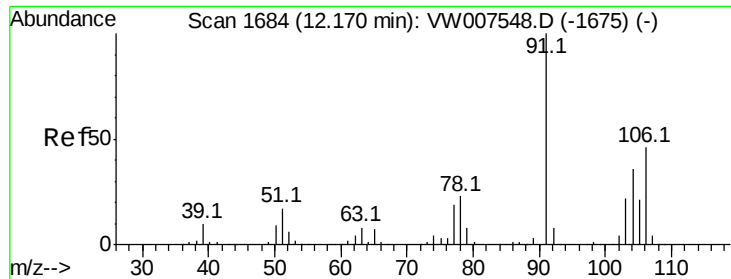
Tot Ion: 91 Resp: 75603
Ion Ratio Lower Upper
91 100
106 30.3 21.8 32.8



#68
m/p-Xylenes
Concen: 46.122 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW007678.D
Acq: 19 Dec 2018 01:57

Tgt Ion:106 Resp: 59348
Ion Ratio Lower Upper
106 100
91 207.4 165.3 247.9

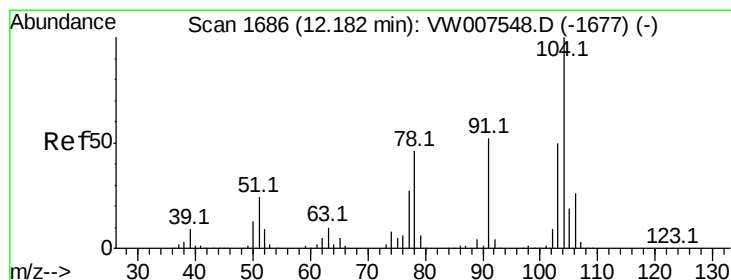
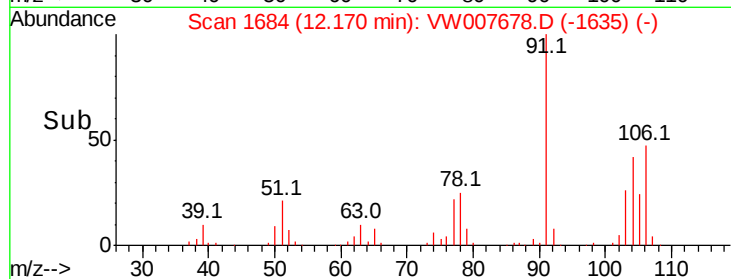
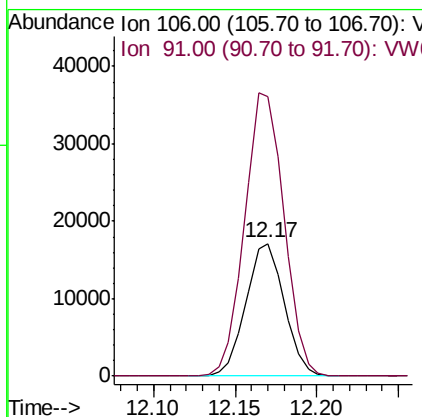
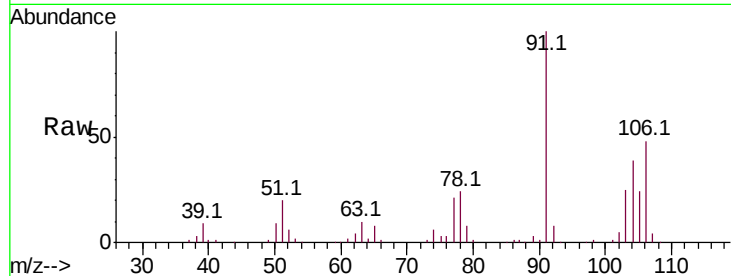




#69
o-Xylene
Concen: 23.360 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW007678.D
Acq: 19 Dec 2018 01:57

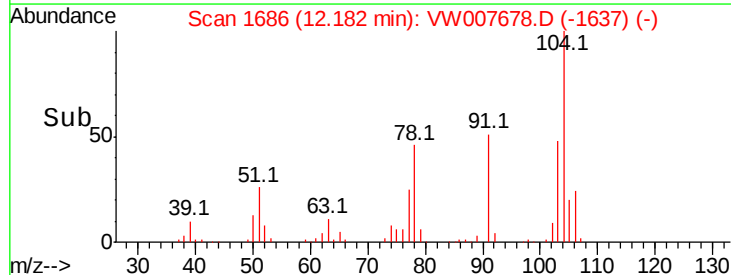
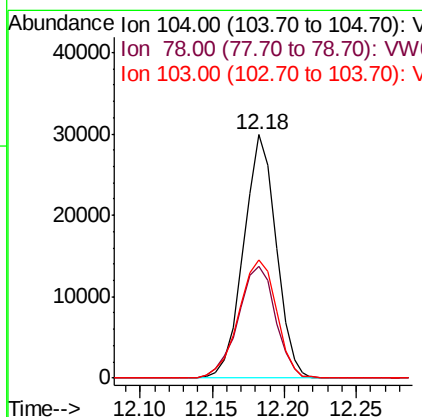
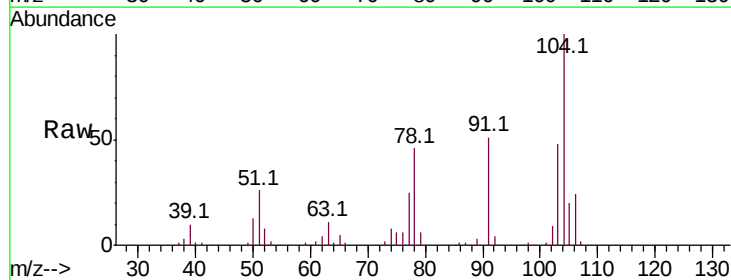
Instrument :
MSVOA_W
ClientSampled :

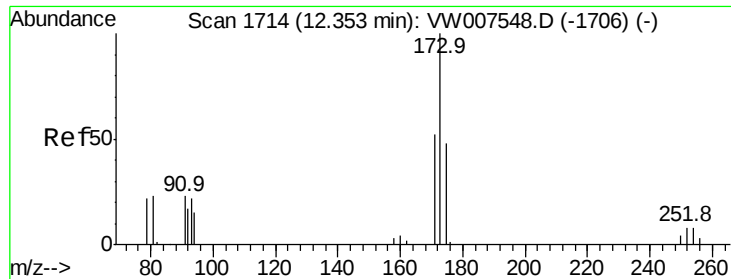
Tot Ion:106 Resp: 28073
Ion Ratio Lower Upper
106 100
91 218.7 106.6 319.8



#70
Styrene
Concen: 24.072 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW007678.D
Acq: 19 Dec 2018 01:57

Tgt Ion:104 Resp: 46725
Ion Ratio Lower Upper
104 100
78 52.7 41.8 62.8
103 56.2 46.6 69.8





#71

Bromoform

Concen: 24.034 ug/l

RT: 12.35 min Scan# 1714

Delta R.T. 0.01 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Instrument :

MSVOA_W

ClientSampleId :

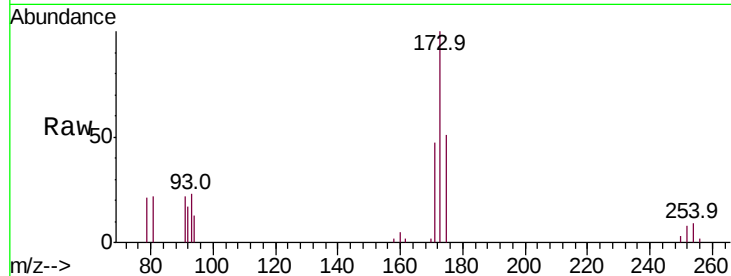
Tot Ion:173 Resp: 8341

Ion Ratio Lower Upper

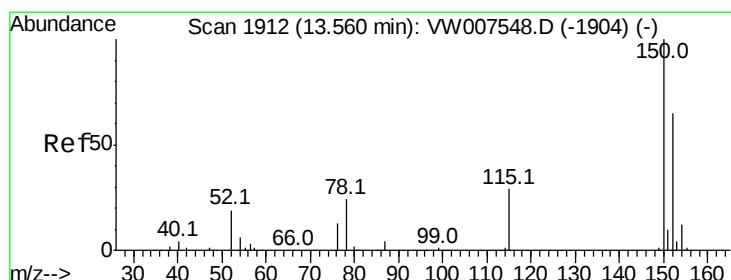
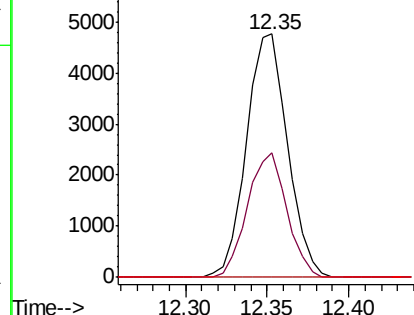
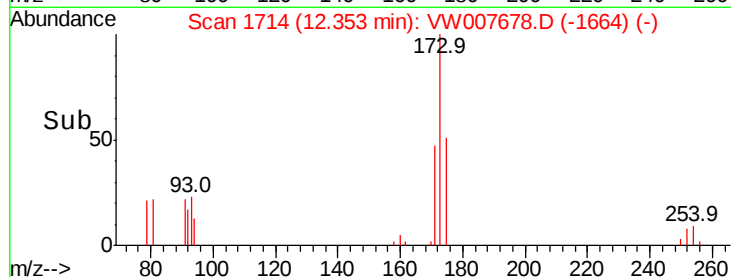
173 100

175 48.8 23.6 70.8

254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

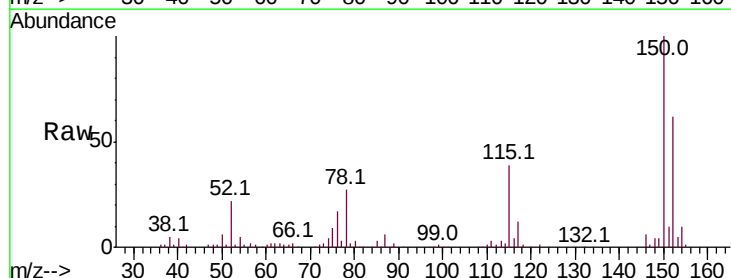
Tgt Ion:152 Resp: 47311

Ion Ratio Lower Upper

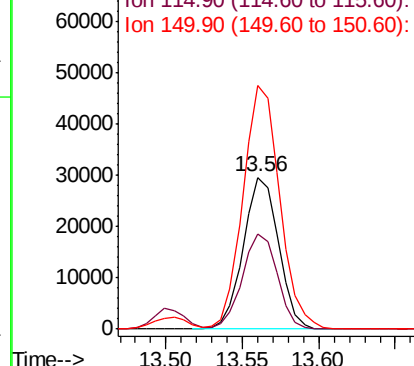
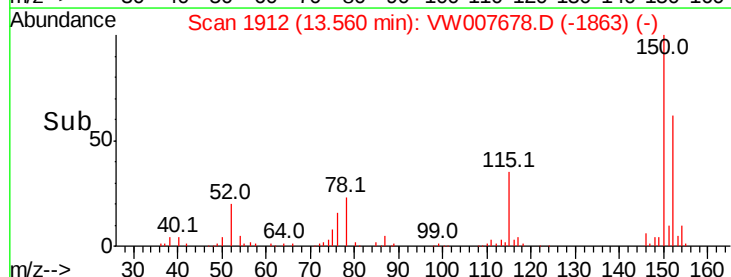
152 100

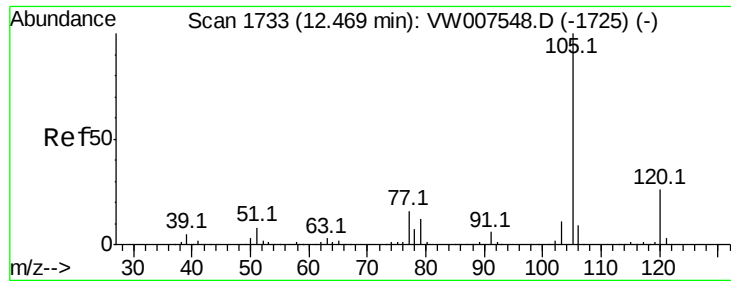
115 62.2 31.4 94.2

150 168.0 0.0 358.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.618 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Instrument :

MSVOA_W

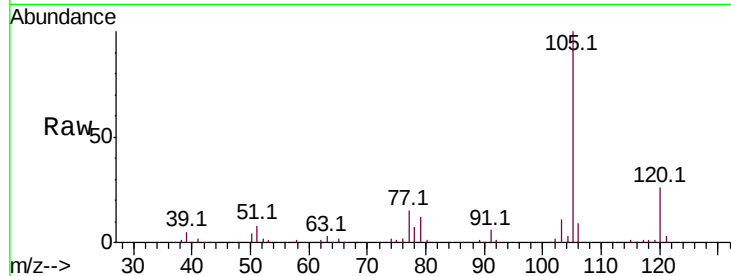
ClientSampled :

Tot Ion:105 Resp: 78369

Ion Ratio Lower Upper

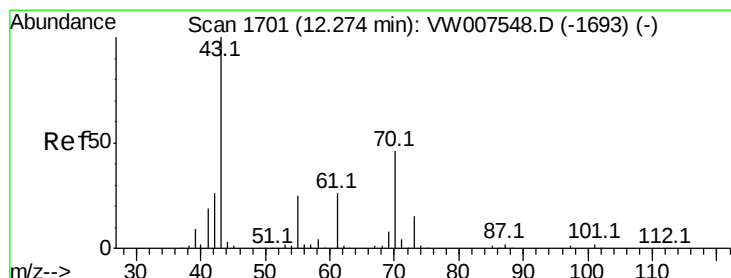
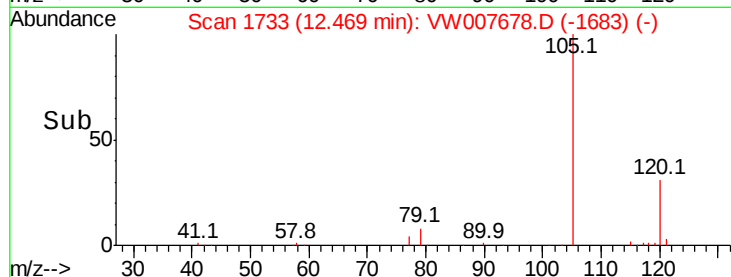
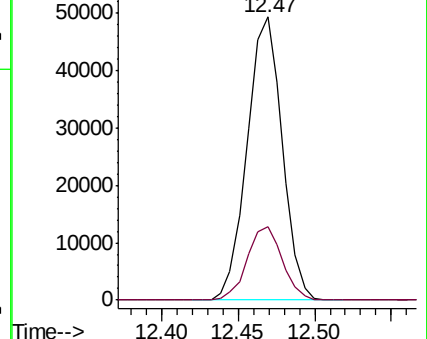
105 100

120 26.2 12.8 38.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 20.998 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Tgt Ion: 43 Resp: 13834

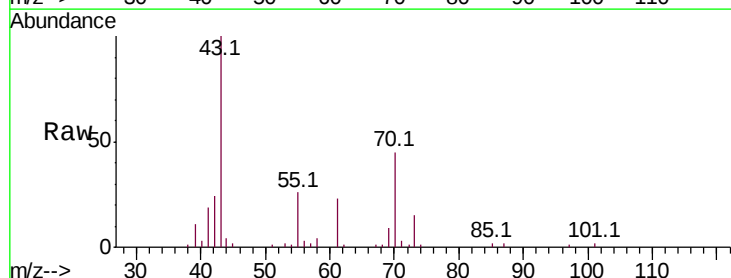
Ion Ratio Lower Upper

43 100

70 46.6 36.5 54.7

55 26.3 20.1 30.1

61 24.9 19.3 28.9

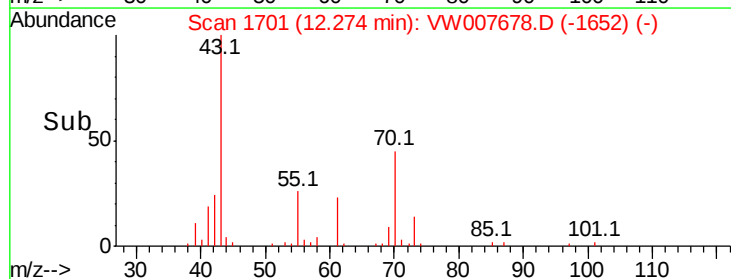
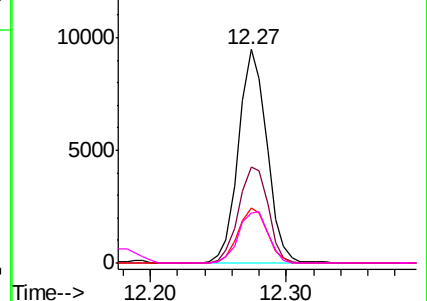


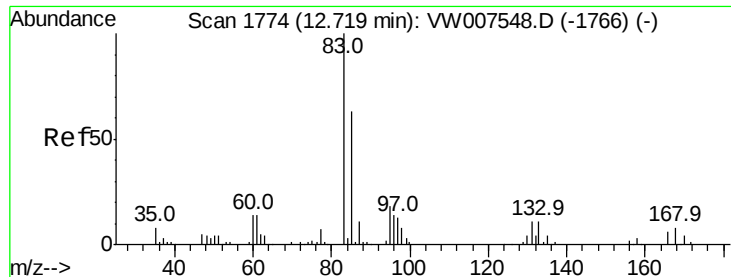
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW





#75

1,1,2,2-Tetrachloroethane

Concen: 22.132 ug/l

RT: 12.72 min Scan# 1774

Delta R.T. -0.00 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Instrument :

MSVOA_W

ClientSampleId :

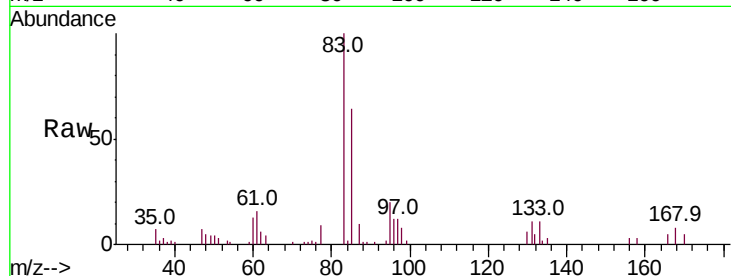
Tot Ion: 83 Resp: 11883

Ion Ratio Lower Upper

83 100

131 12.8 5.9 17.8

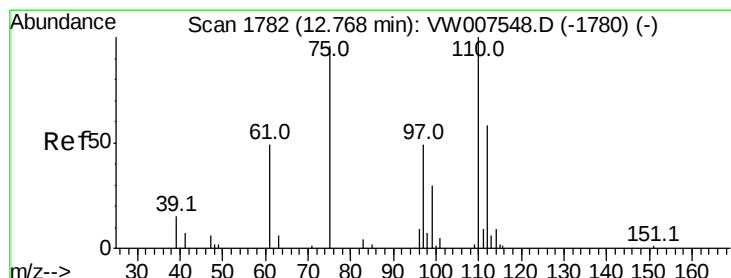
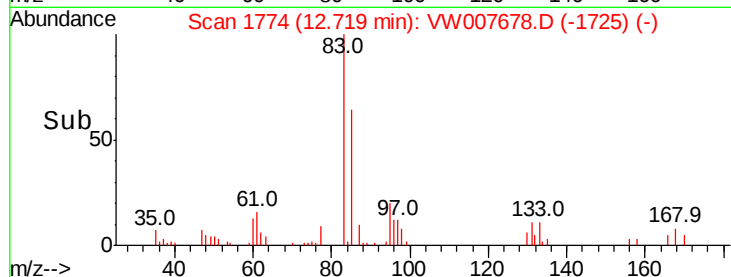
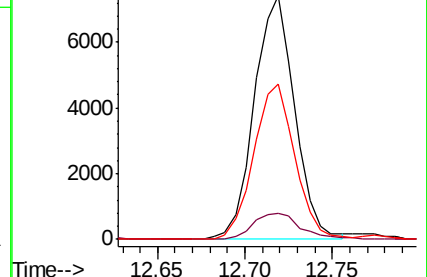
85 64.9 30.0 90.0



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 42.431 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW007678.D

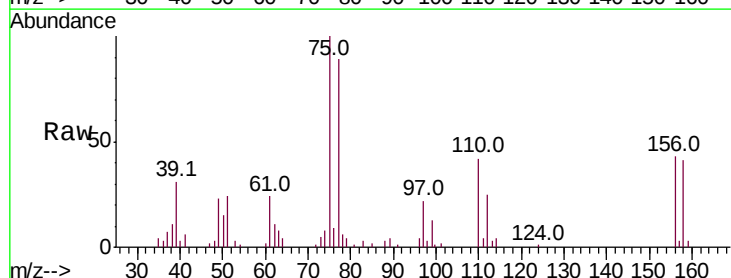
Acq: 19 Dec 2018 01:57

Tgt Ion: 75 Resp: 16552

Ion Ratio Lower Upper

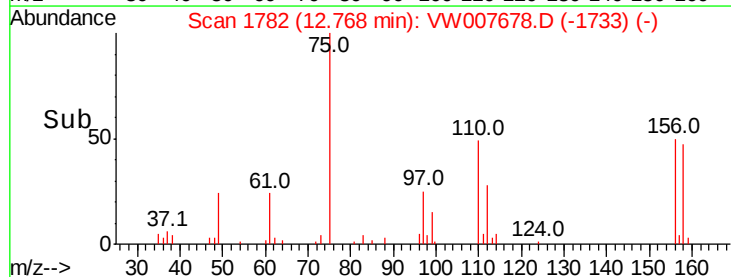
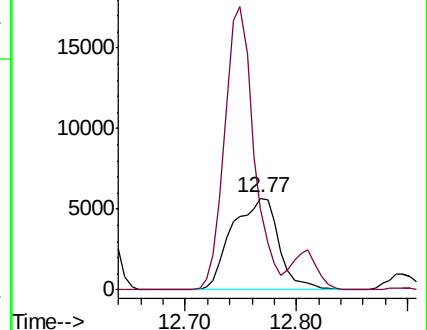
75 100

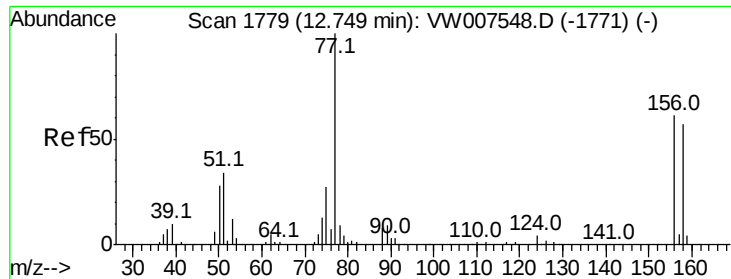
77 193.9 166.9 500.8



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 22.567 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Instrument :

MSVOA_W

ClientSampleId :

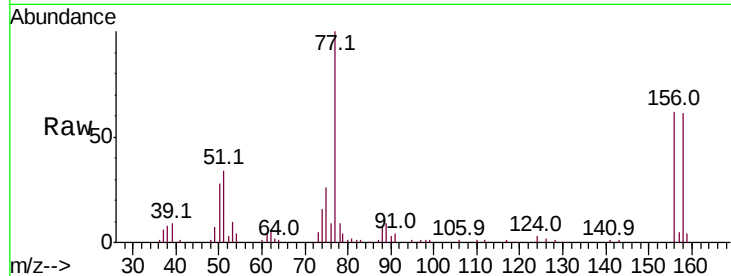
Tot Ion:156 Resp: 18134

Ion Ratio Lower Upper

156 100

77 177.0 88.1 264.4

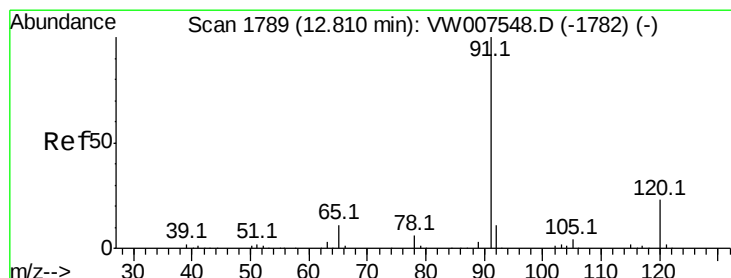
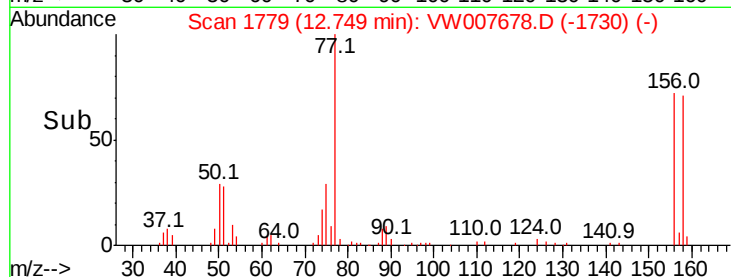
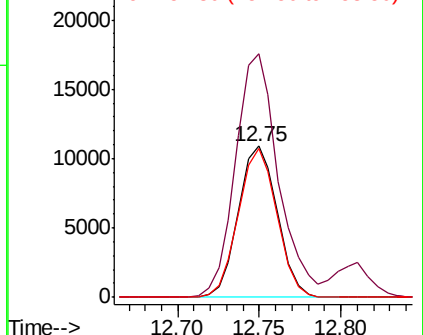
158 97.6 45.6 136.7



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 22.573 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW007678.D

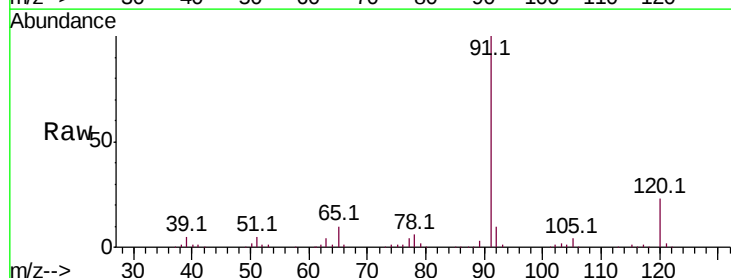
Acq: 19 Dec 2018 01:57

Tgt Ion: 91 Resp: 92094

Ion Ratio Lower Upper

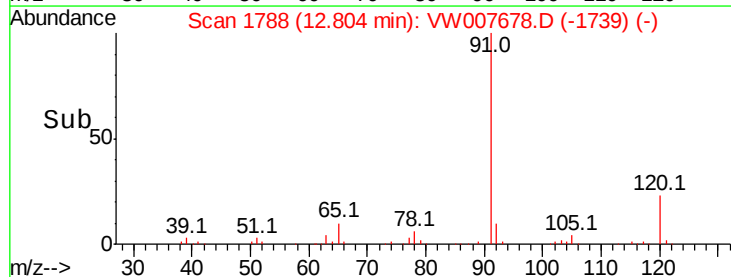
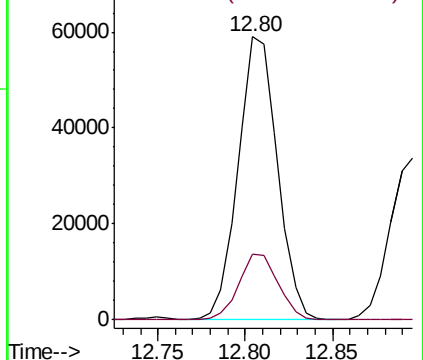
91 100

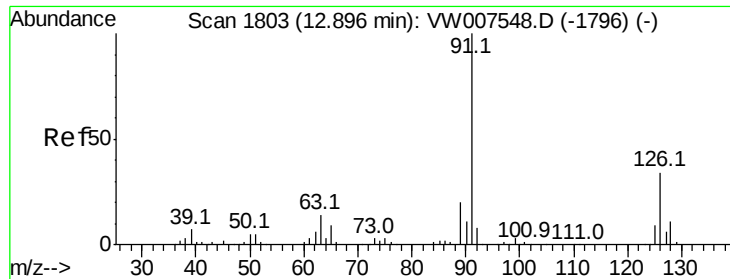
120 23.3 11.9 35.5



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V

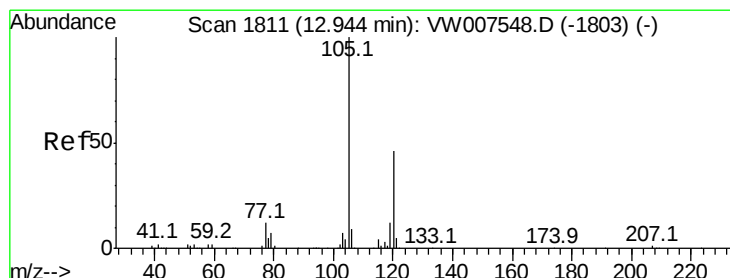
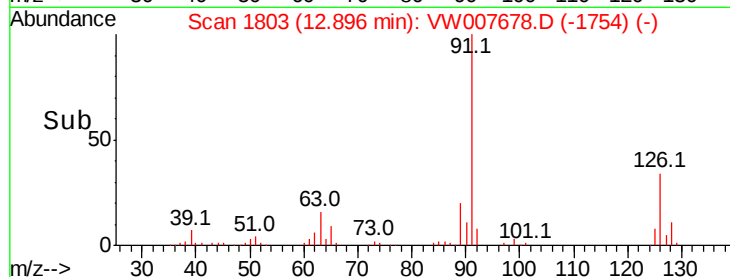
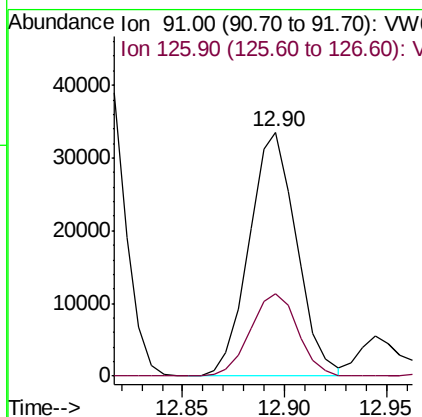
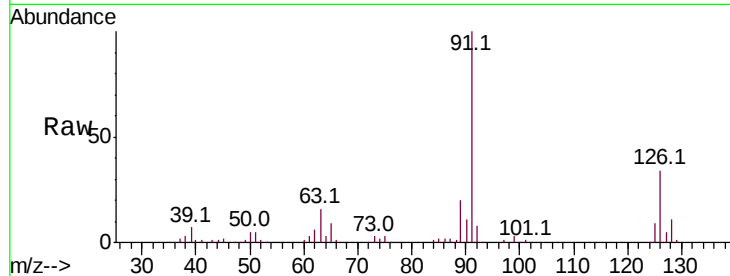




#79
2-Chlorotoluene
Concen: 21.950 ug/l
RT: 12.90 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VW007678.D
Acq: 19 Dec 2018 01:57

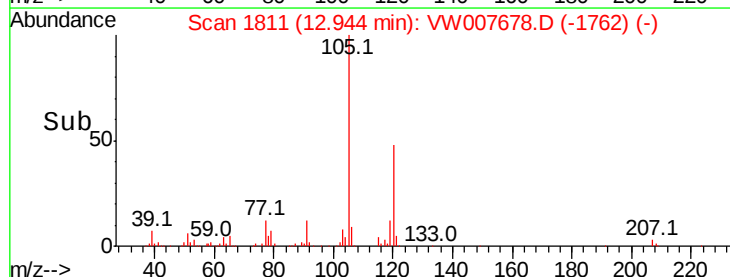
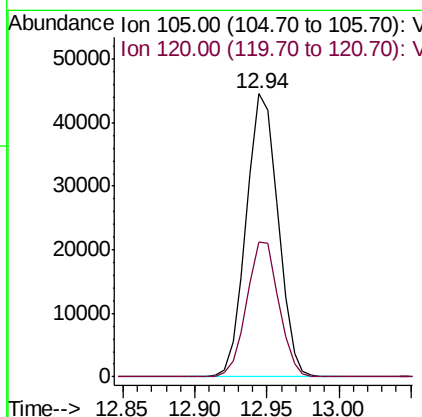
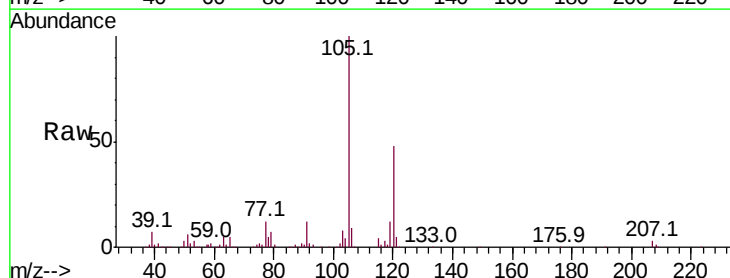
Instrument :
MSVOA_W
ClientSampled :

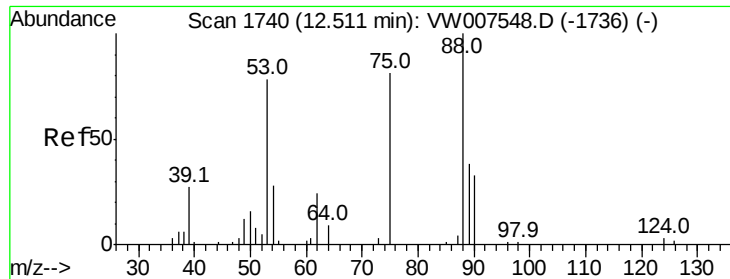
Tot Ion: 91 Resp: 54185
Ion Ratio Lower Upper
91 100
126 33.9 15.9 47.6



#80
1,3,5-Trimethylbenzene
Concen: 22.329 ug/l
RT: 12.94 min Scan# 1811
Delta R.T. -0.00 min
Lab File: VW007678.D
Acq: 19 Dec 2018 01:57

Tgt Ion:105 Resp: 68016
Ion Ratio Lower Upper
105 100
120 48.2 23.8 71.4





#81

trans-1,4-Dichloro-2-butene

Concen: 19.497 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. -0.01 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

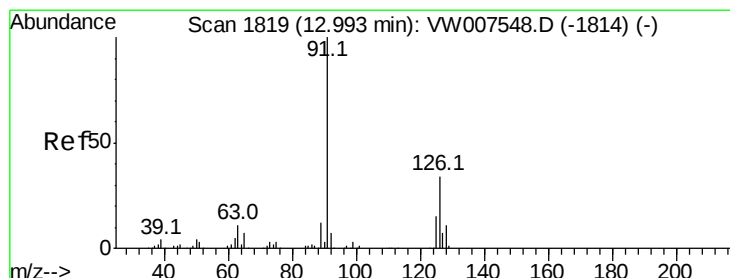
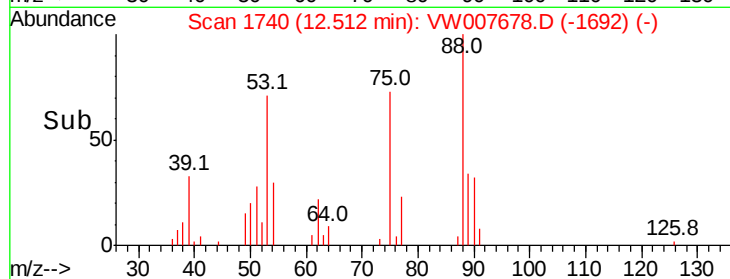
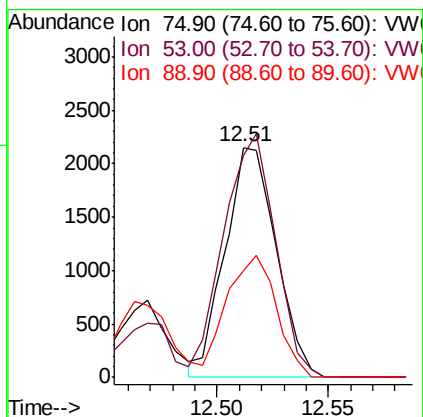
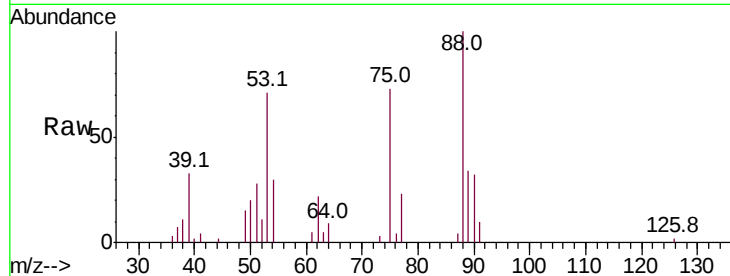
Instrument :

MSVOA_W

ClientSampled :

Tot Ion: 75 Resp: 3443

Ion	Ratio	Lower	Upper
75	100		
53	106.7	84.9	127.3
89	51.3	40.3	60.5



#82

4-Chlorotoluene

Concen: 22.372 ug/l

RT: 12.99 min Scan# 1819

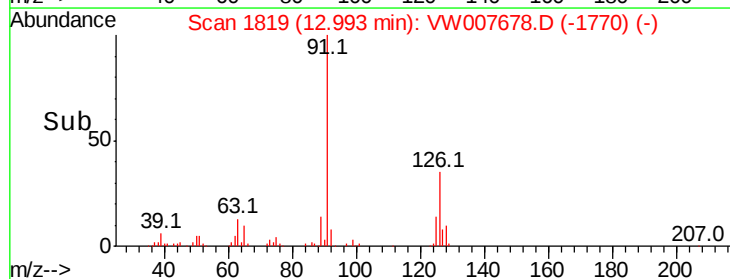
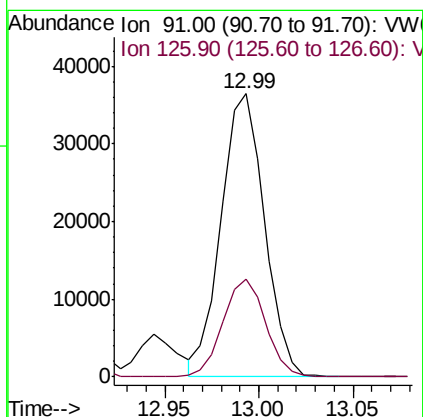
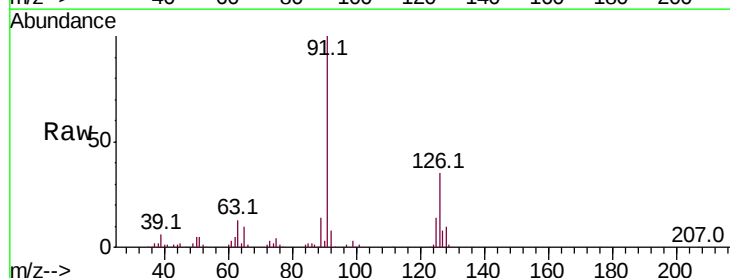
Delta R.T. -0.00 min

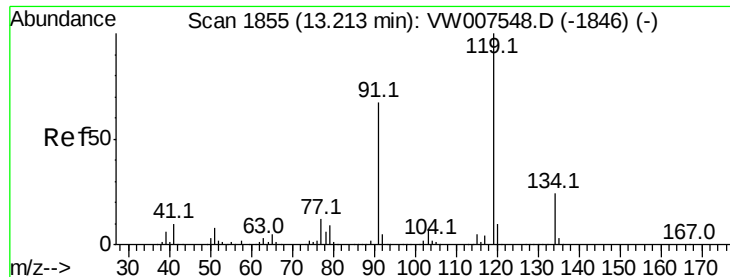
Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Tgt Ion: 91 Resp: 58215

Ion	Ratio	Lower	Upper
91	100		
126	34.0	16.0	48.0

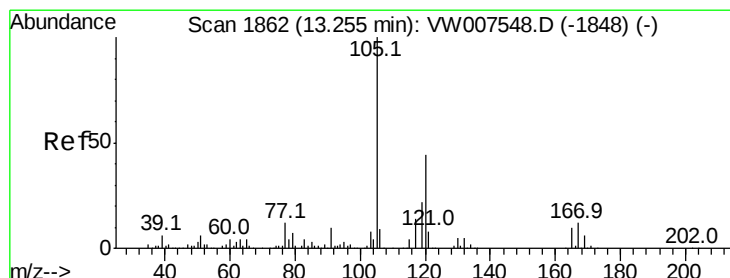
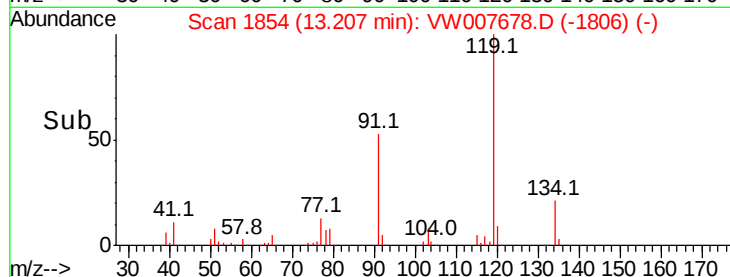
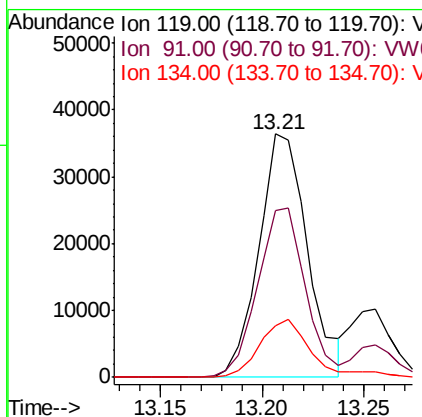
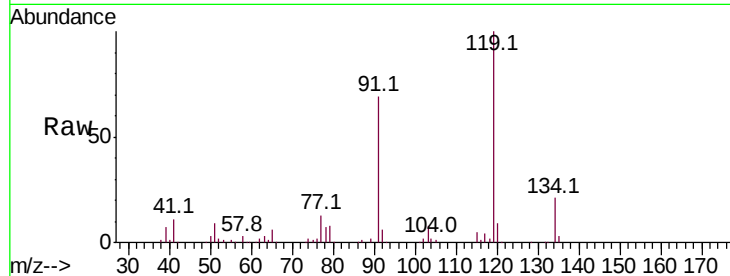




#83
tert-Butylbenzene
Concen: 22.600 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. -0.01 min
Lab File: VW007678.D
Acq: 19 Dec 2018 01:57

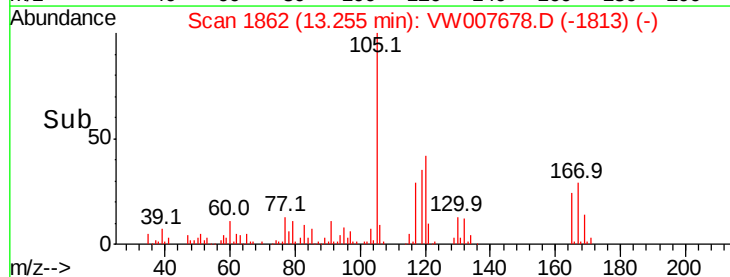
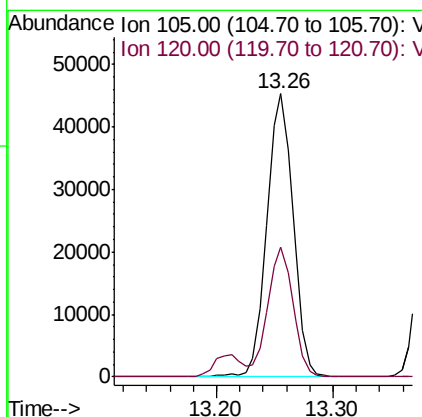
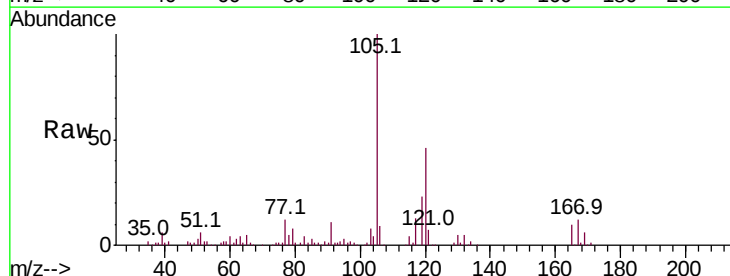
Instrument :
MSVOA_W
ClientSampled :

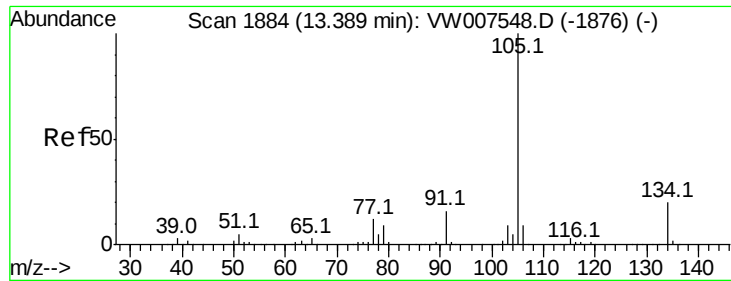
Tot Ion:119 Resp: 60657
Ion Ratio Lower Upper
119 100
91 68.1 33.1 99.2
134 25.1 12.5 37.5



#84
1,2,4-Trimethylbenzene
Concen: 22.478 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. -0.00 min
Lab File: VW007678.D
Acq: 19 Dec 2018 01:57

Tgt Ion:105 Resp: 70457
Ion Ratio Lower Upper
105 100
120 44.4 22.6 67.7





#85

sec-Butylbenzene

Concen: 22.640 ug/l

RT: 13.39 min Scan# 1884

Delta R.T. -0.00 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Instrument :

MSVOA_W

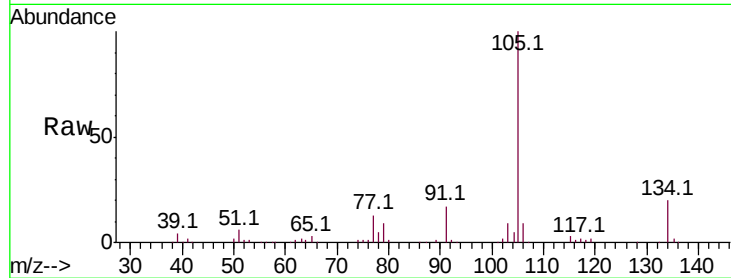
ClientSampled :

Tot Ion:105 Resp: 82953

Ion Ratio Lower Upper

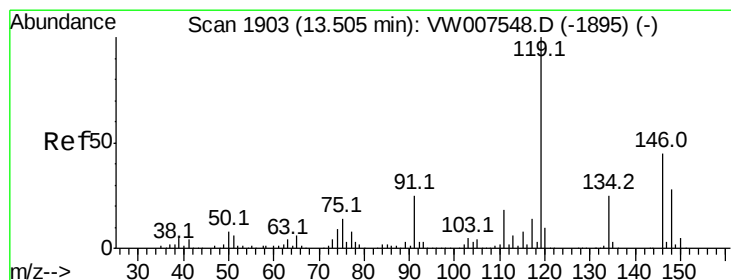
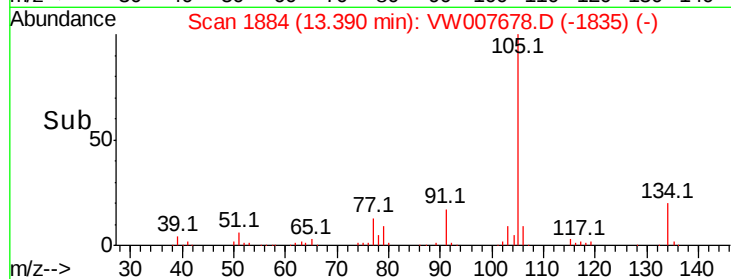
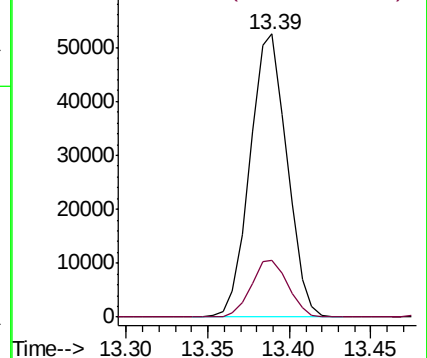
105 100

134 20.1 11.1 33.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 22.683 ug/l

RT: 13.51 min Scan# 1903

Delta R.T. -0.00 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

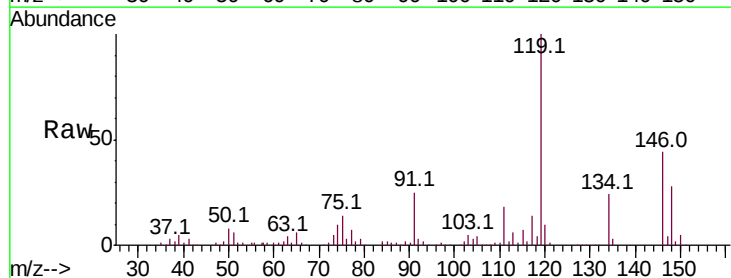
Tgt Ion:119 Resp: 74664

Ion Ratio Lower Upper

119 100

134 25.6 12.9 38.7

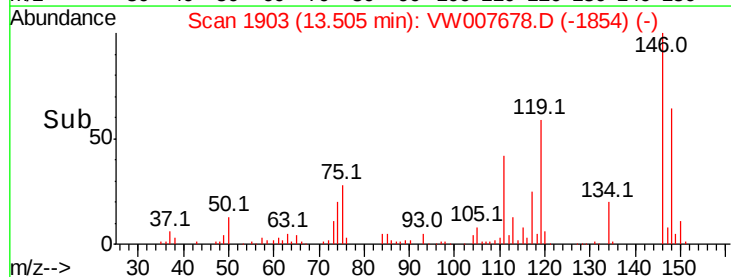
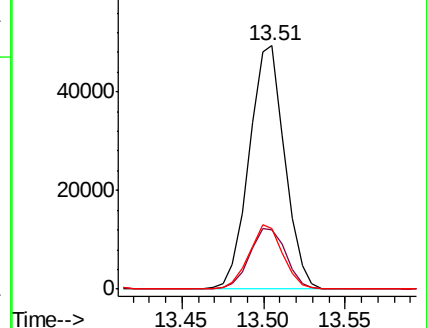
91 25.3 11.9 35.9

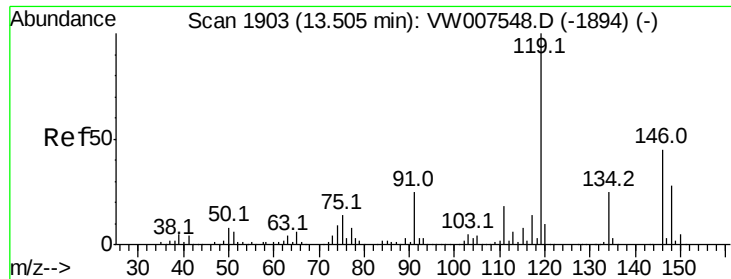


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

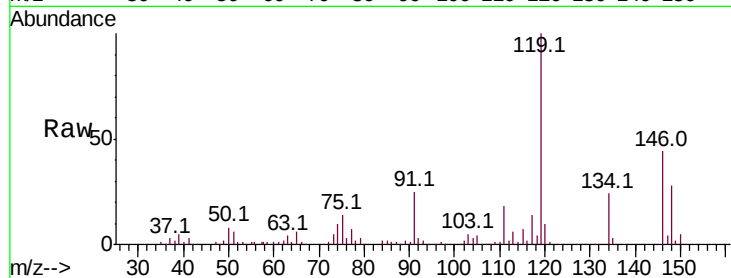




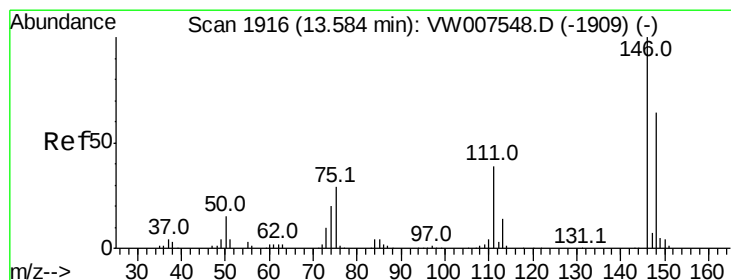
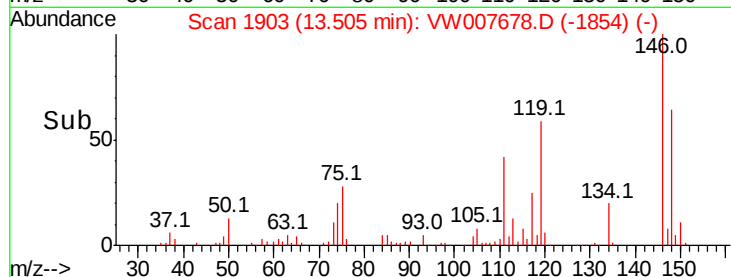
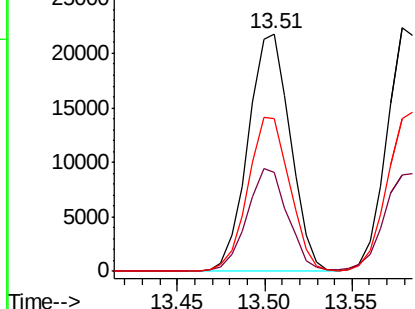
#87
 1,3-Dichlorobenzene
 Concen: 22.785 ug/l
 RT: 13.51 min Scan# 1903
 Delta R.T. -0.00 min
 Lab File: VW007678.D
 Acq: 19 Dec 2018 01:57

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:146 Resp: 36504
 Ion Ratio Lower Upper
 146 100
 111 42.1 20.1 60.3
 148 64.3 31.4 94.0

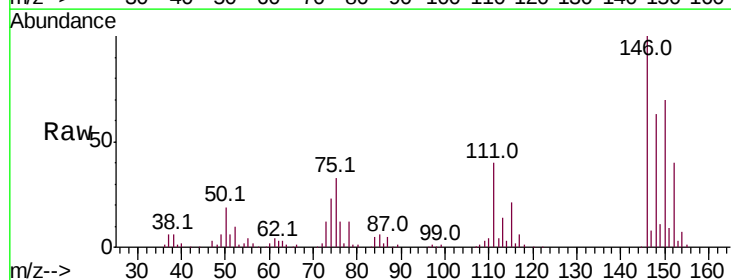


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

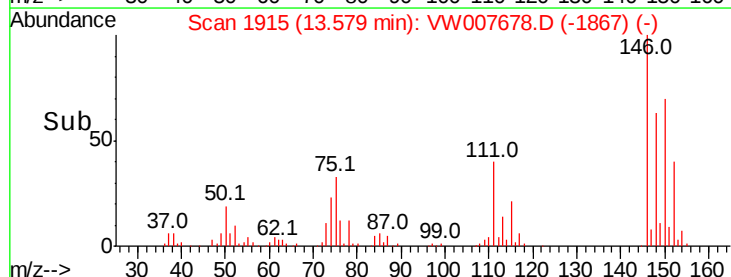
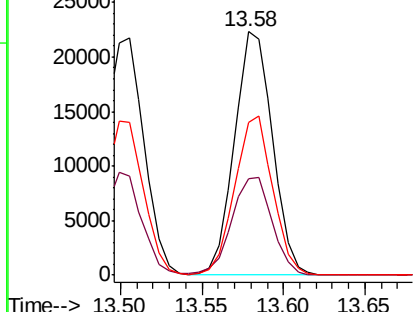


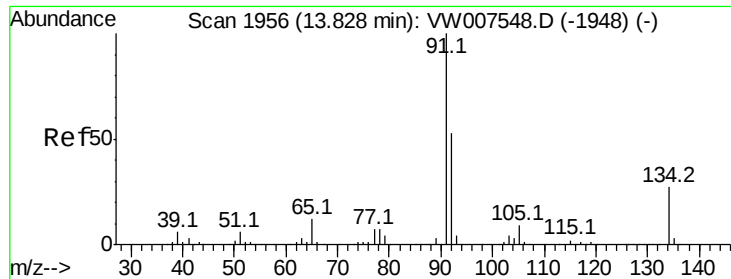
#88
 1,4-Dichlorobenzene
 Concen: 22.625 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.01 min
 Lab File: VW007678.D
 Acq: 19 Dec 2018 01:57

Tgt Ion:146 Resp: 36441
 Ion Ratio Lower Upper
 146 100
 111 42.5 20.3 61.0
 148 64.9 33.5 100.5



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

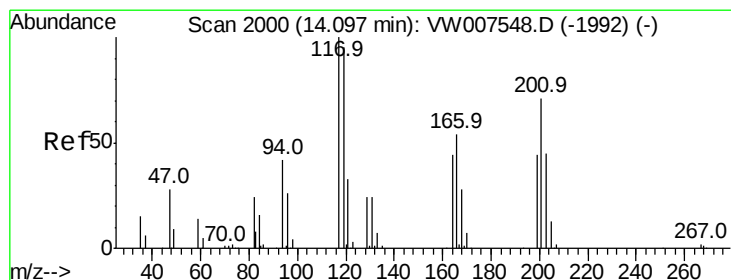
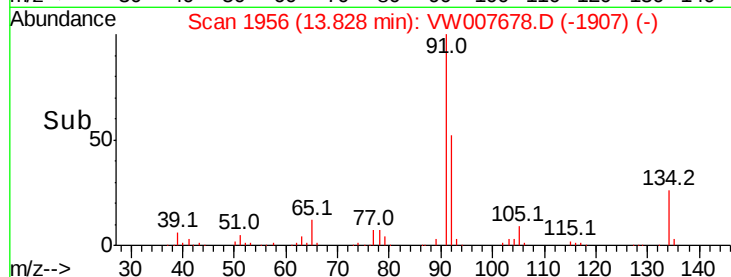
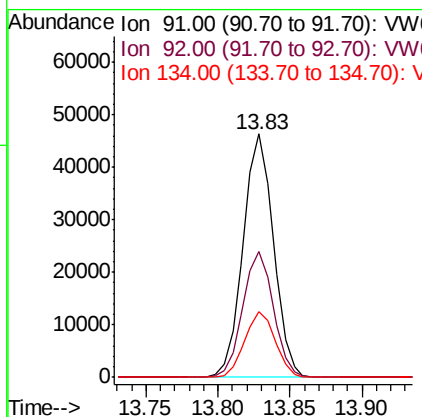
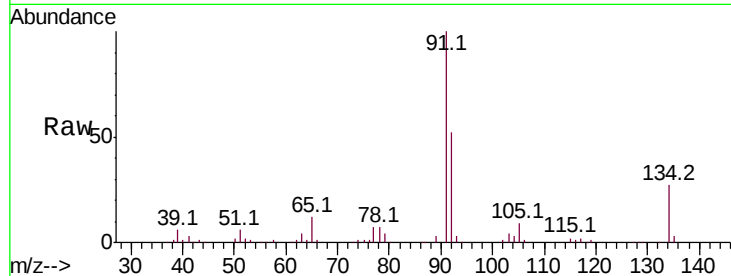




#89
n-Butylbenzene
Concen: 22.118 ug/l
RT: 13.83 min Scan# 1956
Delta R.T. -0.00 min
Lab File: VW007678.D
Acq: 19 Dec 2018 01:57

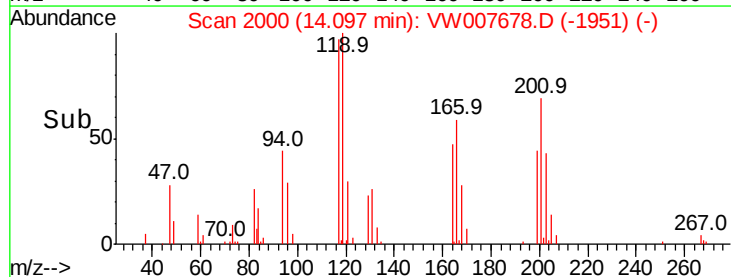
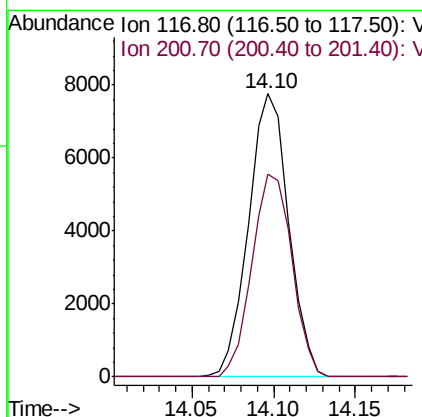
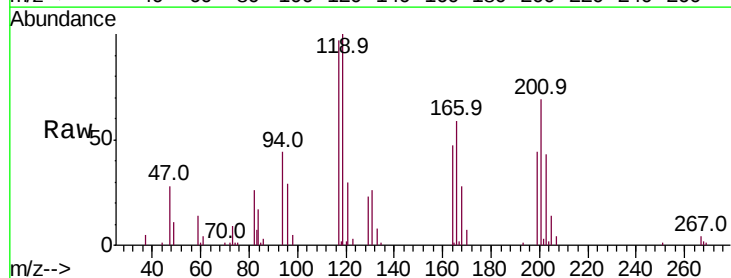
Instrument :
MSVOA_W
ClientSampled :

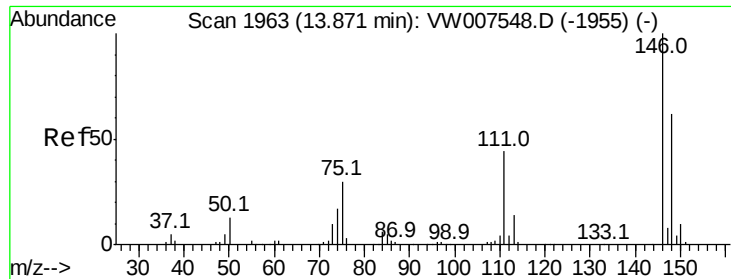
Tot Ion: 91 Resp: 67492
Ion Ratio Lower Upper
91 100
92 52.1 25.7 77.1
134 27.1 13.4 40.2



#90
Hexachloroethane
Concen: 22.675 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. -0.00 min
Lab File: VW007678.D
Acq: 19 Dec 2018 01:57

Tgt Ion: 117 Resp: 13280
Ion Ratio Lower Upper
117 100
201 71.4 35.3 105.9

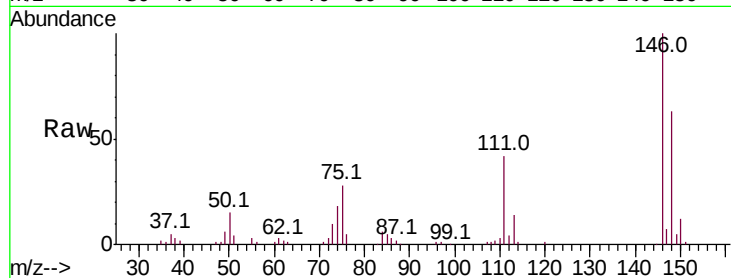




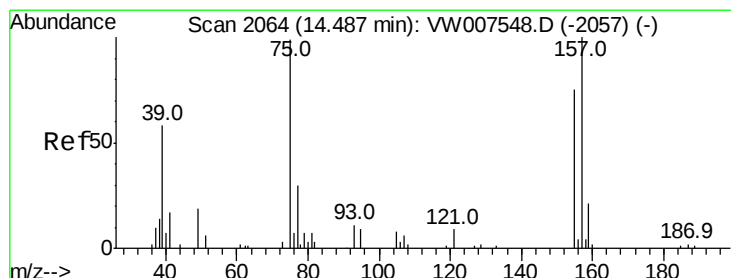
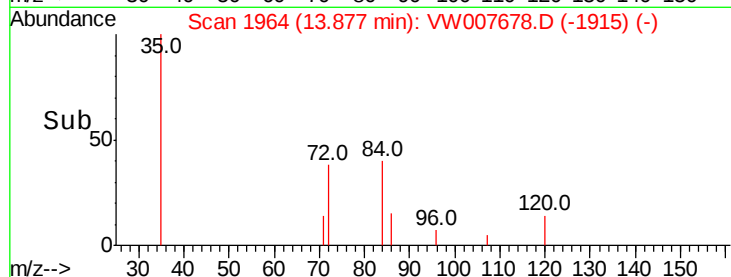
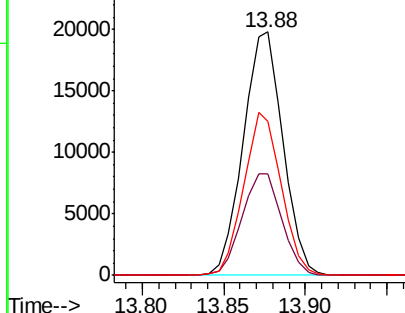
#91
 1,2-Dichlorobenzene
 Concen: 23.378 ug/l
 RT: 13.88 min Scan# 1964
 Delta R.T. -0.00 min
 Lab File: VW007678.D
 Acq: 19 Dec 2018 01:57

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:146 Resp: 33546
 Ion Ratio Lower Upper
 146 100
 111 41.8 22.4 67.2
 148 63.2 32.4 97.2

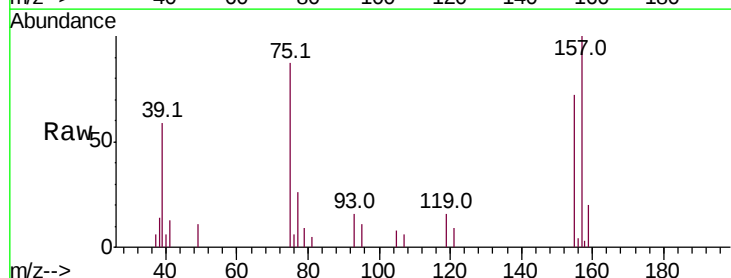


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

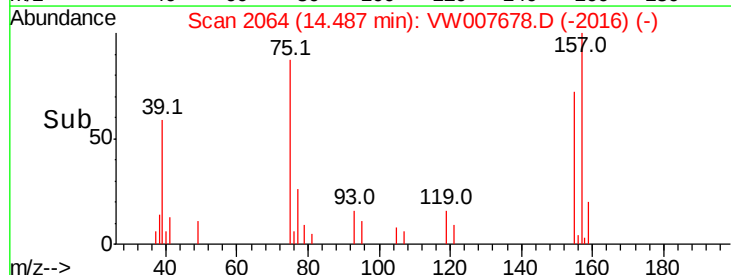
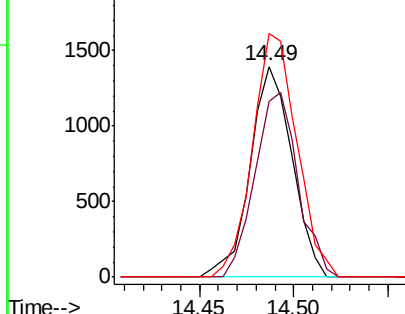


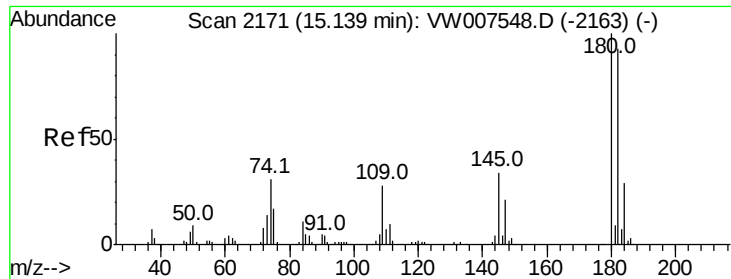
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.000 ug/l
 RT: 14.49 min Scan# 2064
 Delta R.T. -0.01 min
 Lab File: VW007678.D
 Acq: 19 Dec 2018 01:57

Tgt Ion: 75 Resp: 2155
 Ion Ratio Lower Upper
 75 100
 155 89.7 40.8 122.2
 157 121.9 51.1 153.4



Abundance Ion 74.90 (74.60 to 75.60): VW
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V

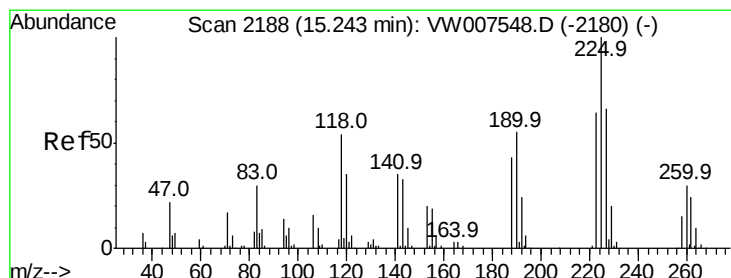
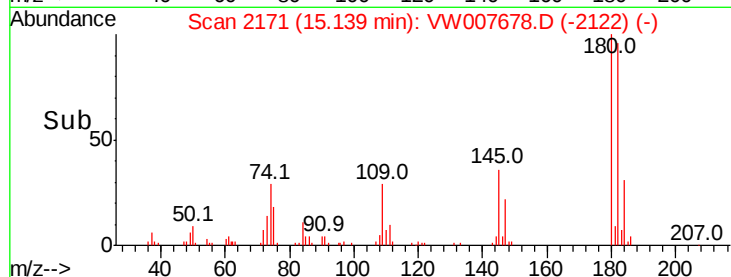
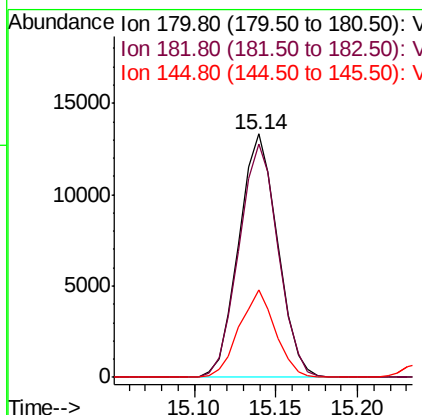
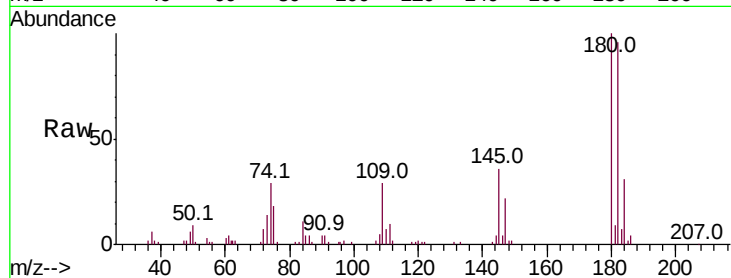




#93
 1,2,4-Trichlorobenzene
 Concen: 22.419 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. -0.00 min
 Lab File: VW007678.D
 Acq: 19 Dec 2018 01:57

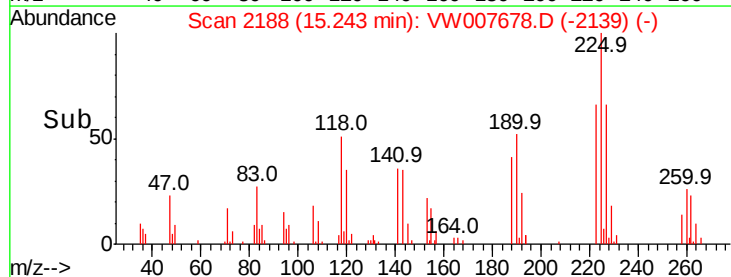
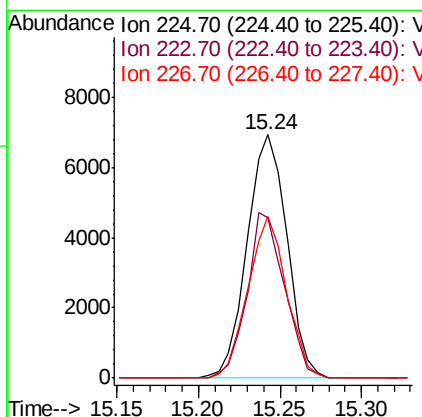
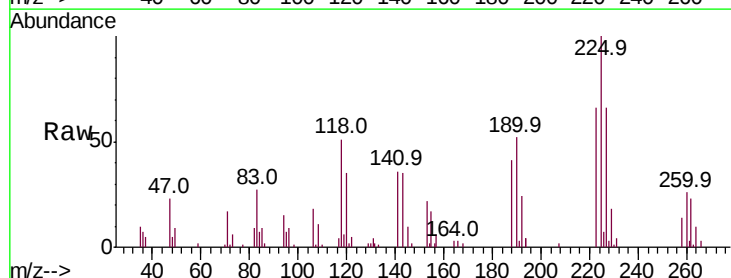
Instrument :
 MSVOA_W
 ClientSampleId :

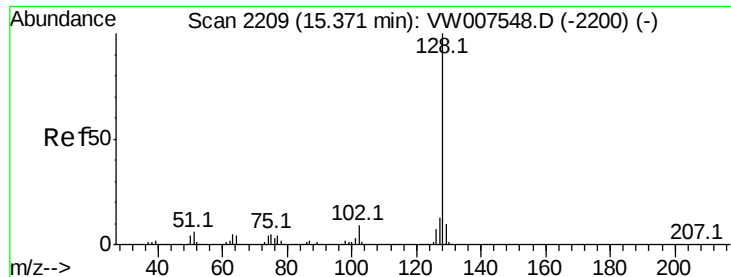
Tot Ion	Ratio	Lower	Upper
180	100		
182	96.6	49.9	149.6
145	33.3	17.8	53.4



#94
 Hexachlorobutadiene
 Concen: 22.425 ug/l
 RT: 15.24 min Scan# 2188
 Delta R.T. -0.00 min
 Lab File: VW007678.D
 Acq: 19 Dec 2018 01:57

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.3	32.1	96.3
227	64.3	31.9	95.9





#95

Naphthalene

Concen: 21.341 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.01 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

Instrument :

MSVOA_W

ClientSampleId :

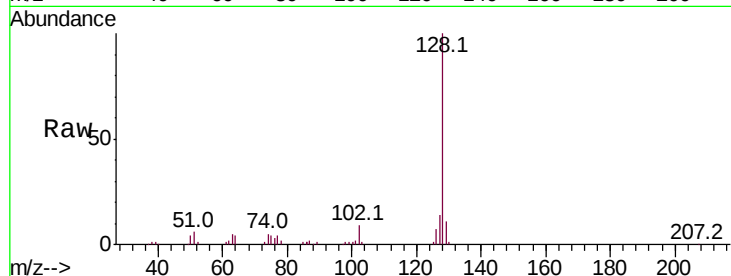
Tot Ion:128 Resp: 40316

Ion Ratio Lower Upper

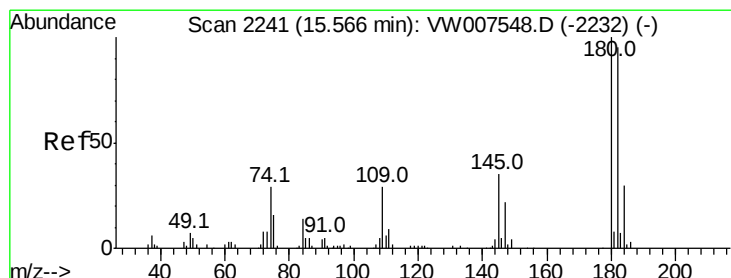
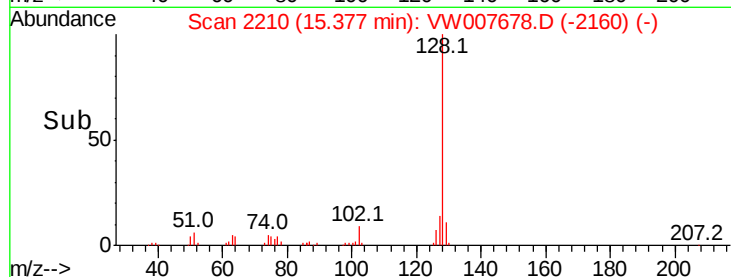
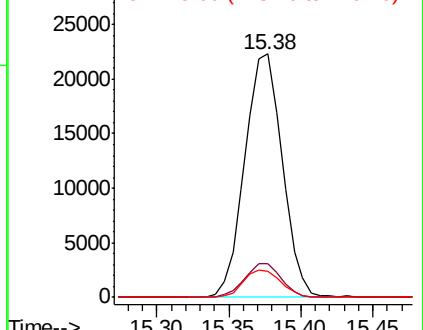
128 100

127 13.5 10.2 15.4

129 11.2 8.3 12.5



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



#96

1,2,3-Trichlorobenzene

Concen: 21.960 ug/l

RT: 15.56 min Scan# 2240

Delta R.T. -0.00 min

Lab File: VW007678.D

Acq: 19 Dec 2018 01:57

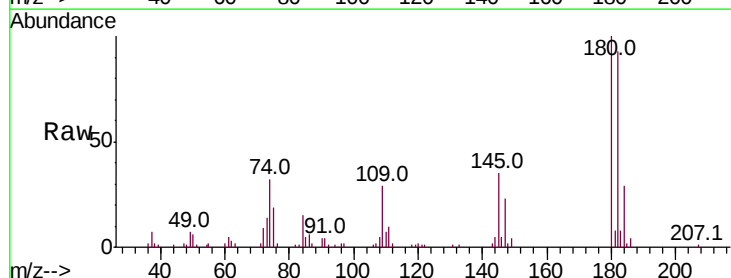
Tgt Ion:180 Resp: 18838

Ion Ratio Lower Upper

180 100

182 97.0 45.6 136.7

145 38.3 17.5 52.5



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

