

Data File : VW009530.D
Acq On : 28 Mar 2019 10:37
Operator : SY/VA
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
BFB12

Quant Time: Mar 29 05:35:02 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 28 07:41:43 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	453850	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	433183	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	231135	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	107440	19.81	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	79.24%
7) Chloroethane-d5	2.87	69	134414	21.18	ug/L	-0.02
Spiked Amount	25.000	Range	30 - 150	Recovery	=	84.72%
10) 1,1-Dichloroethene-d2	4.01	63	269095	22.96	ug/L	-0.01
Spiked Amount	25.000	Range	45 - 110	Recovery	=	91.84%
20) 2-Butanone-d5	7.07	46	93241	41.57	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	83.14%
24) Chloroform-d	7.64	84	292140	23.59	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	94.36%
26) 1,2-Dichloroethane-d4	8.30	65	169323	22.69	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	90.76%
29) Benzene-d6	8.27	84	522859	21.89	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	87.56%
33) 1,2-Dichloropropane-d6	9.27	67	164329	22.90	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	91.60%
37) Toluene-d8	10.32	98	486449	22.02	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	88.08%
38) trans-1,3-Dichloropropene-	10.57	79	75275	20.89	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	83.56%
39) 2-Hexanone-d5	10.92	63	70480	40.56	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	81.12%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	157465	22.28	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	89.12%
61) 1,2-Dichlorobenzene-d4	13.85	152	196021	22.12	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	88.48%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	139472	23.328	ug/L	96
3) Chloromethane	2.21	50	136230	21.476	ug/L	96
5) Vinyl chloride	2.37	62	188851	28.925	ug/L	98
6) Bromomethane	2.75	94	138025	25.233	ug/L	100
8) Chloroethane	2.90	64	149687	27.711	ug/L	95
9) Trichlorofluoromethane	3.24	101	115720	22.438	ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	4.05	101	155090	26.040	ug/L	95
12) 1,1-Dichloroethene	4.03	96	151933	27.185	ug/L	81
13) Acetone	4.12	43	84232	45.795	ug/L	99
14) Carbon disulfide	4.37	76	404149	26.870	ug/L	98
15) Methyl Acetate	4.67	43	73418	20.318	ug/L	99
16) Methylene chloride	4.90	84	173506	26.216	ug/L	99
17) Methyl tert-butyl Ether	5.42	73	184319	23.309	ug/L	98
18) trans-1,2-Dichloroethene	5.41	96	144971	24.672	ug/L	95
19) 1,1-Dichloroethane	6.20	63	285082	26.609	ug/L	98
21) 2-Butanone	7.17	43	106623	41.983	ug/L	99
22) cis-1,2-Dichloroethene	7.16	96	161022	25.297	ug/L	94

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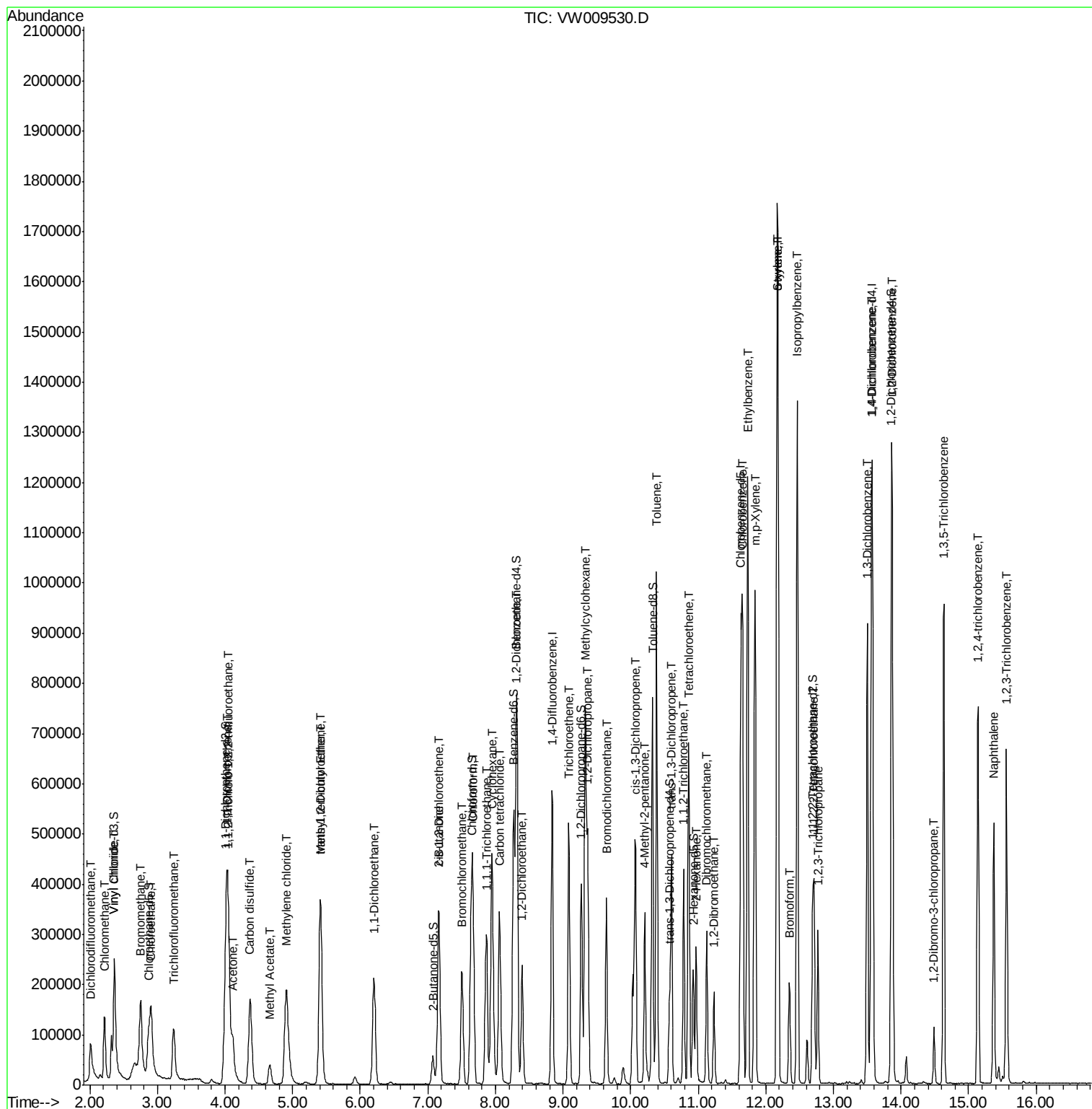
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.50	128	73060	23.931	ug/L	98
25) Chloroform	7.67	83	300989	26.826	ug/L	99
27) 1,2-Dichloroethane	8.39	62	213436	25.515	ug/L	98
30) Cyclohexane	7.95	56	254768	25.896	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	233771	27.020	ug/L	99
32) Carbon tetrachloride	8.06	117	238702	27.346	ug/L	98
34) Benzene	8.32	78	632096	26.659	ug/L	100
35) Trichloroethene	9.09	95	161715	25.597	ug/L	98
36) Methylcyclohexane	9.33	83	279508	25.572	ug/L	97
40) 1,2-Dichloropropane	9.37	63	160413	26.365	ug/L	99
41) Bromodichloromethane	9.64	83	220661	26.175	ug/L	96
42) cis-1,3-Dichloropropene	10.07	75	252525	25.483	ug/L	95
43) 4-Methyl-2-pentanone	10.21	43	226517	41.086	ug/L	100
44) Toluene	10.38	91	698161	26.932	ug/L	99
45) trans-1,3-Dichloropropene	10.60	75	215932	25.049	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	119143	24.546	ug/L	98
47) Tetrachloroethene	10.86	164	135670	25.415	ug/L	94
49) 2-Hexanone	10.97	43	167469	43.129	ug/L	98
50) Dibromochloromethane	11.13	129	146767	24.494	ug/L	91
51) 1,2-Dibromoethane	11.23	107	114996	23.370	ug/L	95
52) Chlorobenzene	11.66	112	436201	26.235	ug/L	97
53) Ethylbenzene	11.73	91	803606	27.573	ug/L	100
54) m,p-Xylene	11.84	106	298942	26.998	ug/L	96
55) o-xylene	12.16	106	291073	26.945	ug/L	99
56) Styrene	12.18	104	503492	27.318	ug/L	96
57) Isopropylbenzene	12.46	105	806504	27.871	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	152408	23.275	ug/L #	98
59) 1,2,3-Trichloropropane	12.77	75	111658	22.977	ug/L	99
62) Bromoform	12.35	173	85492	21.891	ug/L	97
63) 1,3-Dichlorobenzene	13.50	146	343137	24.910	ug/L	95
64) 1,4-Dichlorobenzene	13.58	146	361234	25.364	ug/L	98
65) 1,2-Dichlorobenzene	13.87	146	330673	25.171	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.49	75	25948	20.154	ug/L	87
67) 1,3,5-Trichlorobenzene	14.63	180	282808	26.321	ug/L	99
68) 1,2,4-trichlorobenzene	15.14	180	226142	25.057	ug/L	100
69) Naphthalene	15.37	128	412104	22.024	ug/L	99
70) 1,2,3-Trichlorobenzene	15.56	180	210564	24.909	ug/L	98

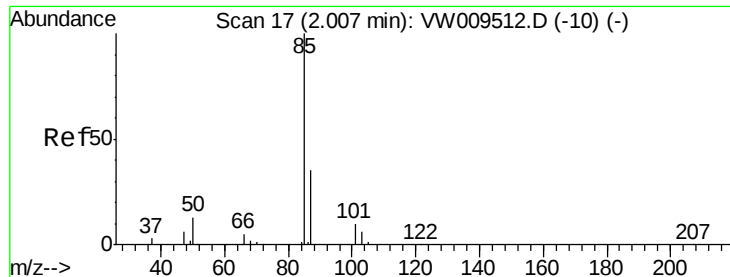
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 23.328 ug/L

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW009530.D

Acq: 28 Mar 2019 10:37

Instrument :

MSVOA_W

ClientSampleId :

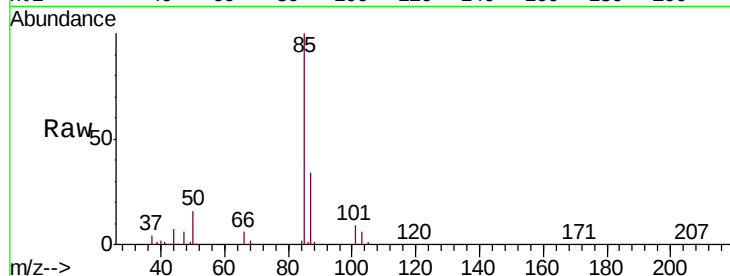
BFB12

Tgt Ion: 85 Resp: 139472

Ion Ratio Lower Upper

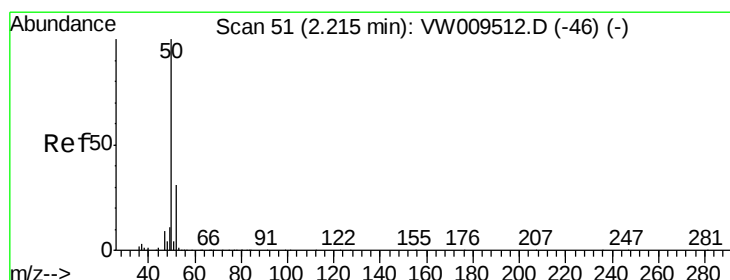
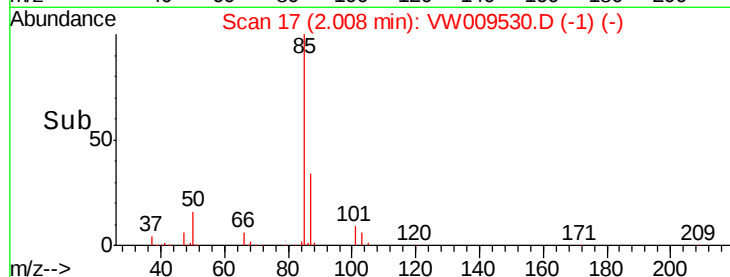
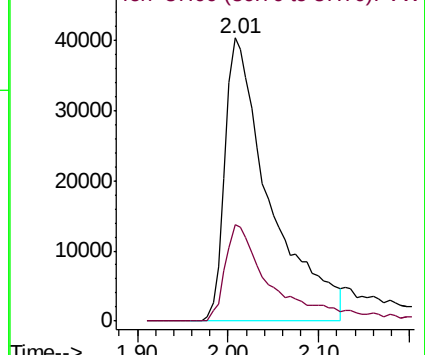
85 100

87 29.9 19.5 36.3



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 21.476 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW009530.D

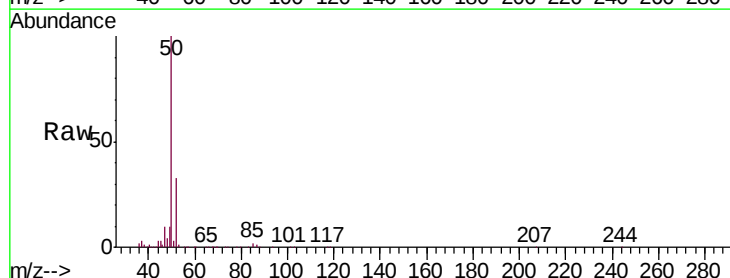
Acq: 28 Mar 2019 10:37

Tgt Ion: 50 Resp: 136230

Ion Ratio Lower Upper

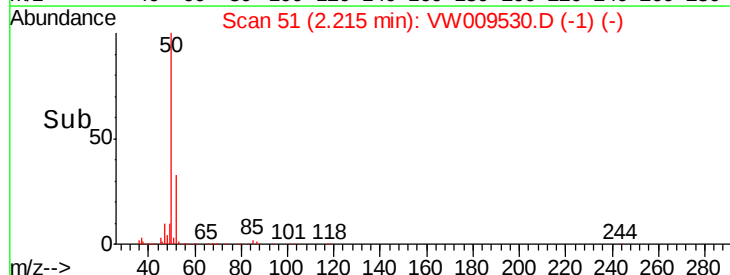
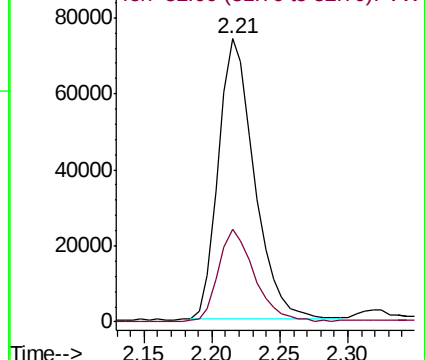
50 100

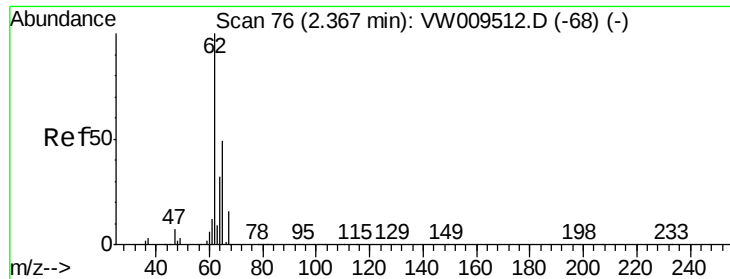
52 32.9 21.6 40.2



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 28.925 ug/L

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW009530.D

Acq: 28 Mar 2019 10:37

Instrument :

MSVOA_W

ClientSampleId :

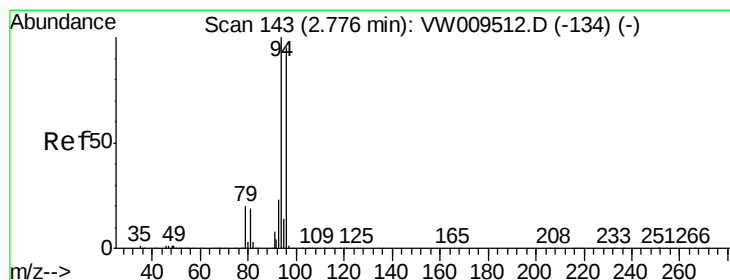
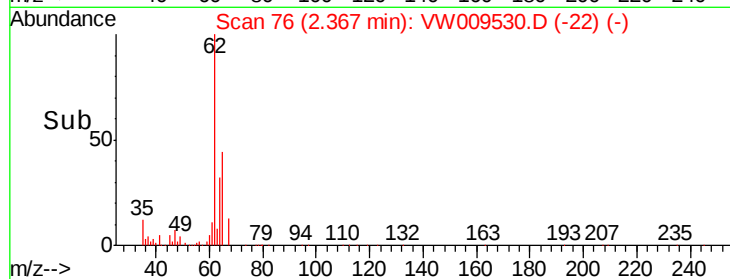
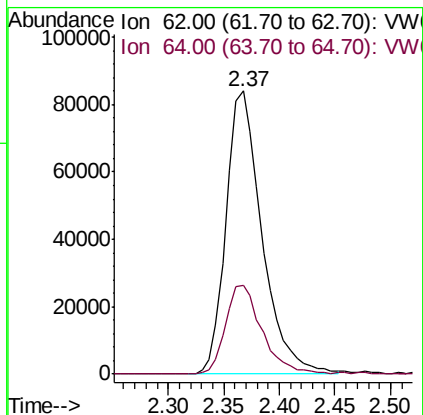
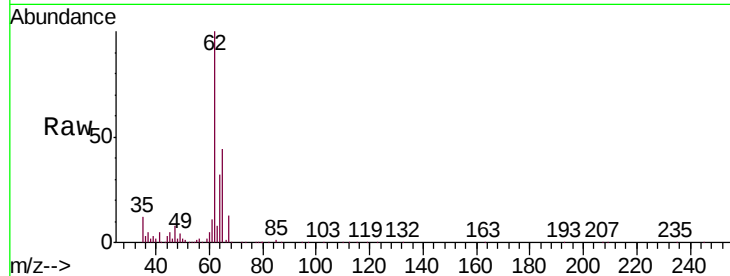
BFB12

Tgt Ion: 62 Resp: 188851

Ion Ratio Lower Upper

62 100

64 31.5 23.0 42.6



#6

Bromomethane

Concen: 25.233 ug/L

RT: 2.75 min Scan# 139

Delta R.T. -0.02 min

Lab File: VW009530.D

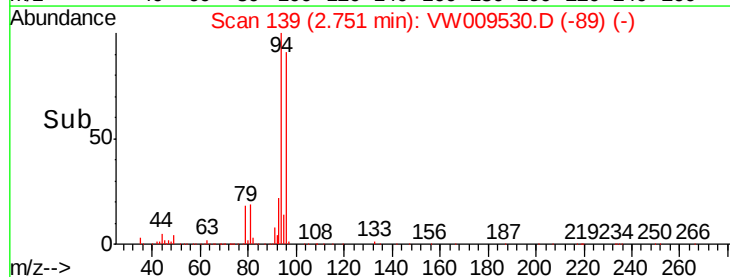
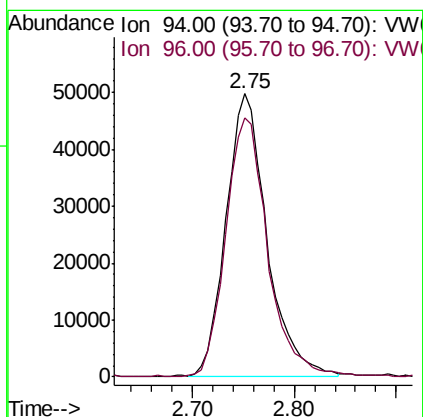
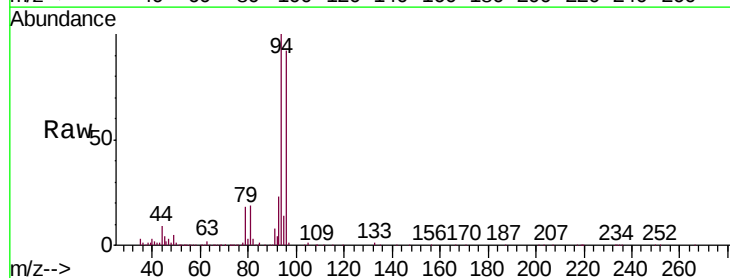
Acq: 28 Mar 2019 10:37

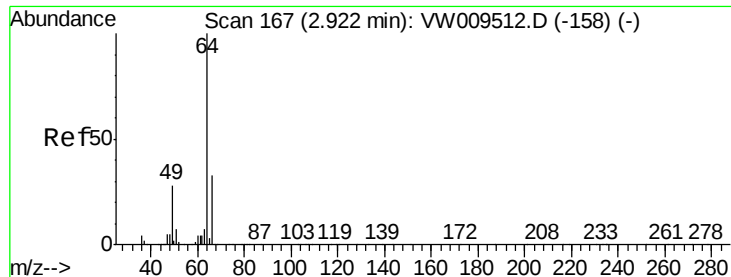
Tgt Ion: 94 Resp: 138025

Ion Ratio Lower Upper

94 100

96 93.6 9.4 178.4





#8

Chloroethane

Concen: 27.711 ug/L

RT: 2.90 min Scan# 164

Delta R.T. -0.02 min

Lab File: VW009530.D

Acq: 28 Mar 2019 10:37

Instrument :

MSVOA_W

ClientSampleId :

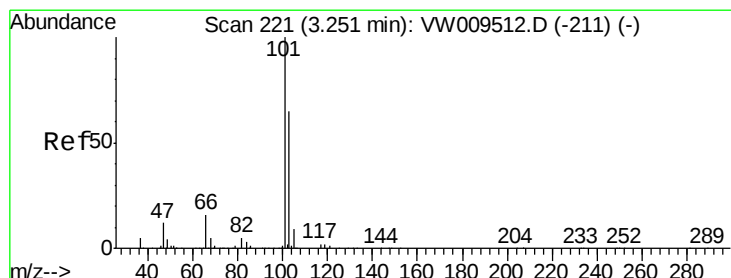
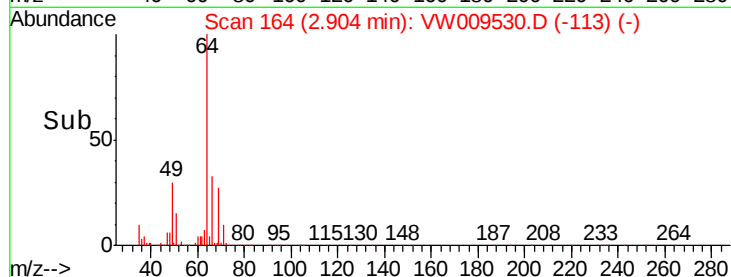
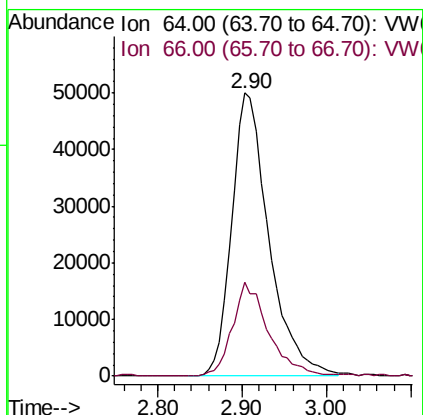
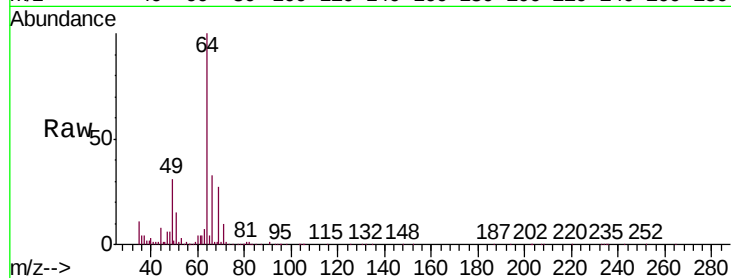
BFB12

Tgt Ion: 64 Resp: 149687

Ion Ratio Lower Upper

64 100

66 33.2 25.1 46.7



#9

Trichlorofluoromethane

Concen: 22.438 ug/L

RT: 3.24 min Scan# 219

Delta R.T. -0.01 min

Lab File: VW009530.D

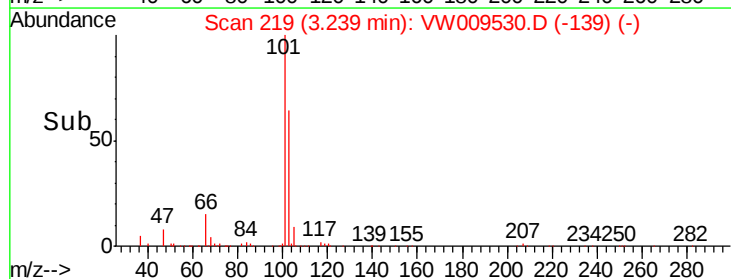
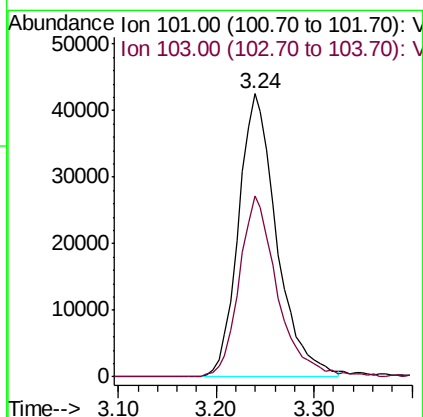
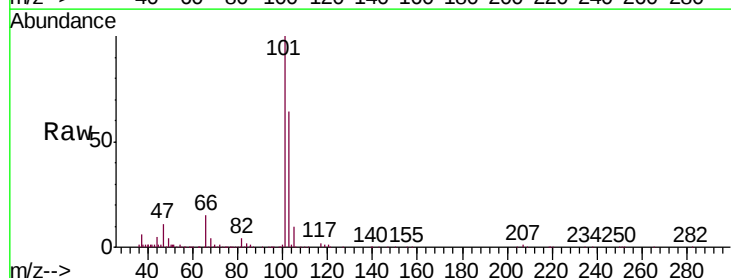
Acq: 28 Mar 2019 10:37

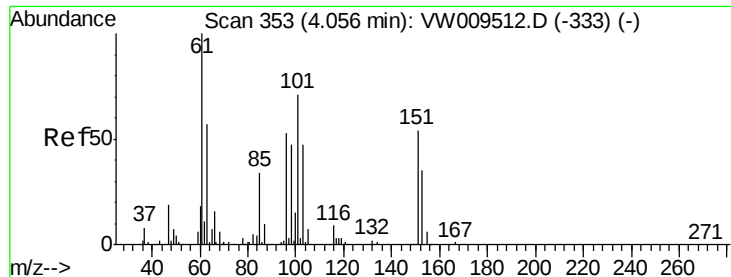
Tgt Ion: 101 Resp: 115720

Ion Ratio Lower Upper

101 100

103 63.0 45.0 83.6





#11

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

Concen: 26.040 ug/L

RT: 4.05 min Scan# 352

Delta R.T. -0.01 min

Lab File: VW009530.D

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ClientSampleId :

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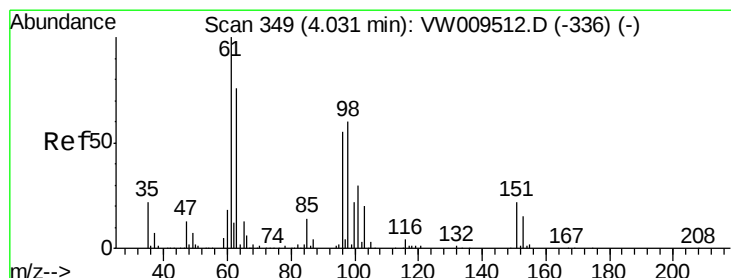
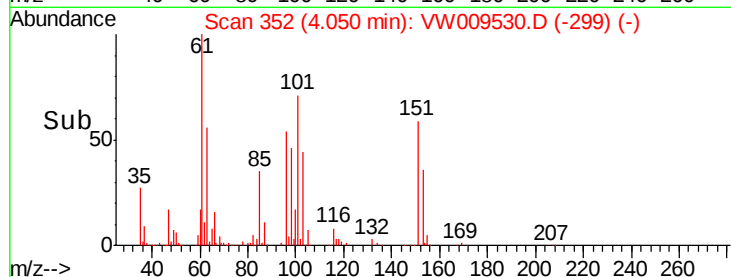
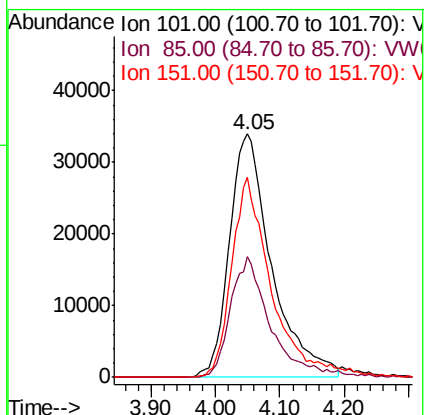
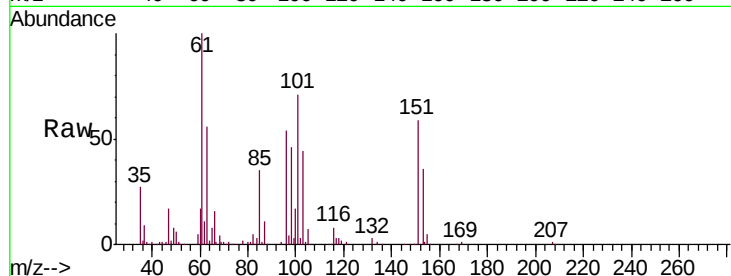
Tgt Ion:101 Resp: 155090

Ion Ratio Lower Upper

101 100

85 44.3 32.6 48.8

151 74.8 63.3 94.9



#12

1,1-Dichloroethene

Concen: 27.185 ug/L

RT: 4.03 min Scan# 349

Delta R.T. 0.00 min

Lab File: VW009530.D

Acq: 28 Mar 2019 10:37

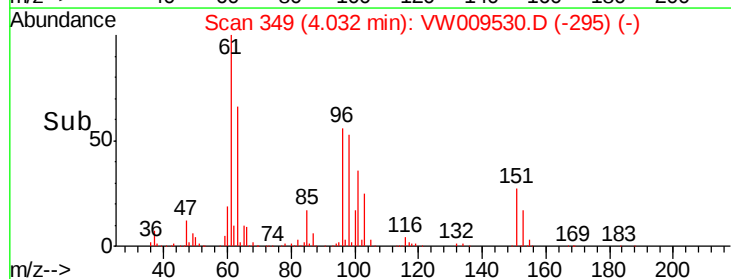
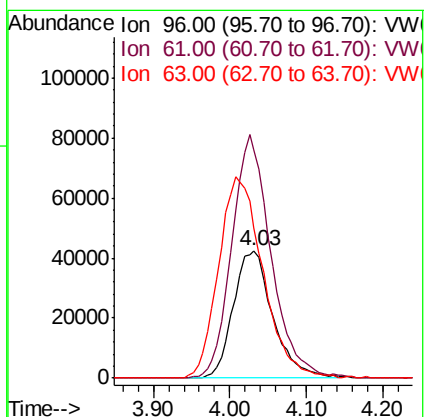
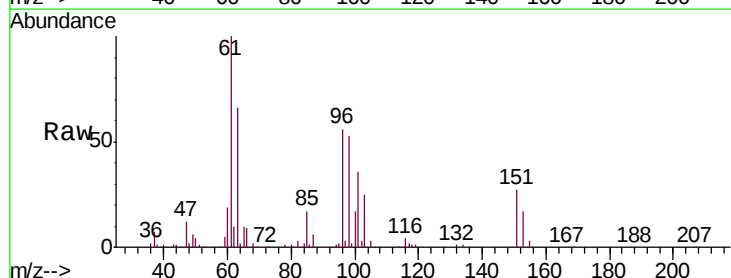
Tgt Ion: 96 Resp: 151933

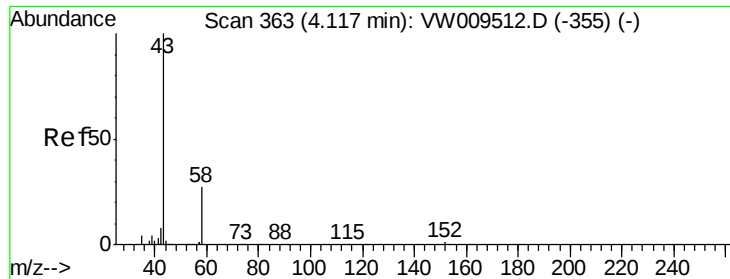
Ion Ratio Lower Upper

96 100

61 179.0 129.4 240.2

63 117.8 116.8 217.0





#13

Acetone

Concen: 45.795 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW009530.D

Acq: 28 Mar 2019 10:37

Instrument :

MSVOA_W

ClientSampled :

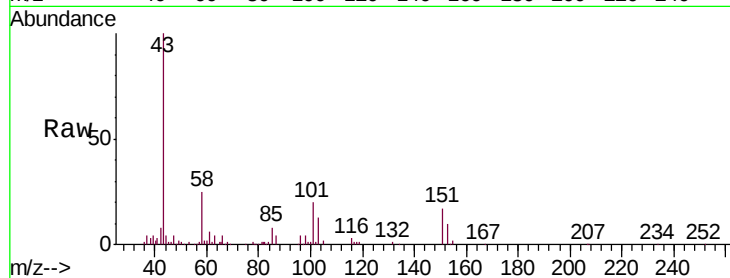
BFB12

Tgt Ion: 43 Resp: 84232

Ion Ratio Lower Upper

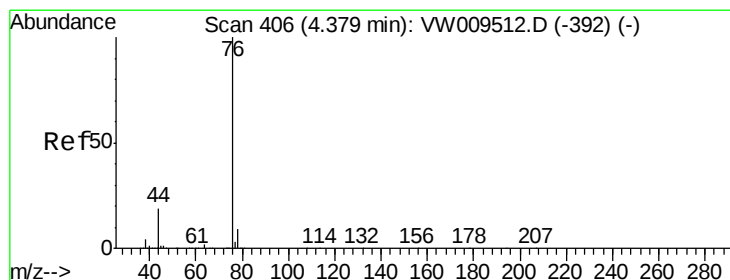
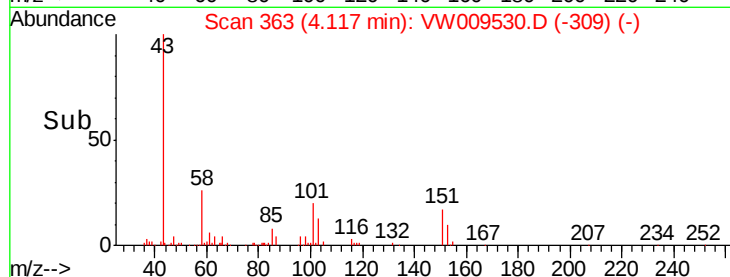
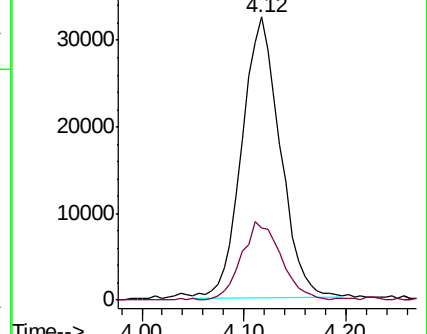
43 100

58 28.7 0.0 56.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 26.870 ug/L

RT: 4.37 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW009530.D

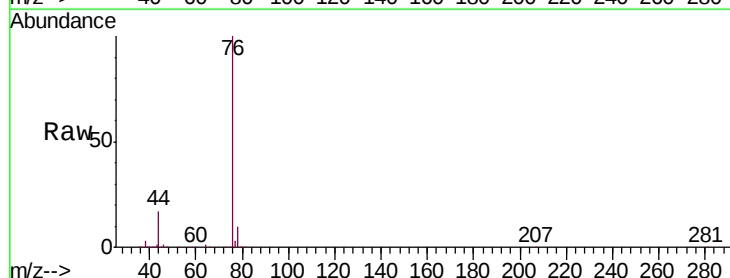
Acq: 28 Mar 2019 10:37

Tgt Ion: 76 Resp: 404149

Ion Ratio Lower Upper

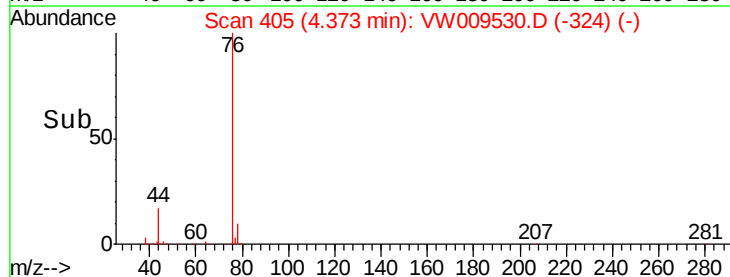
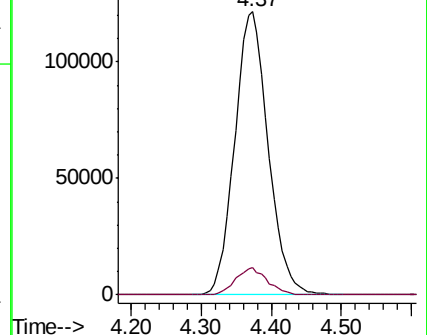
76 100

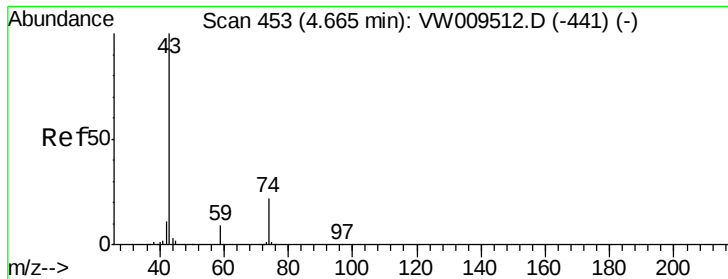
78 9.8 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

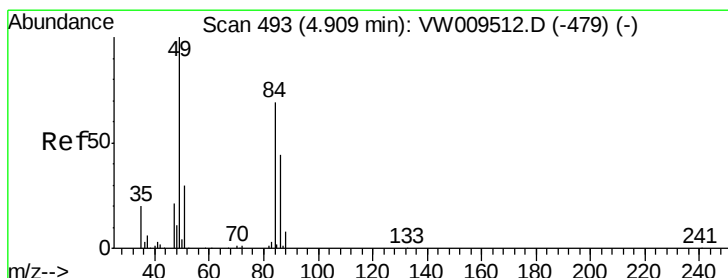
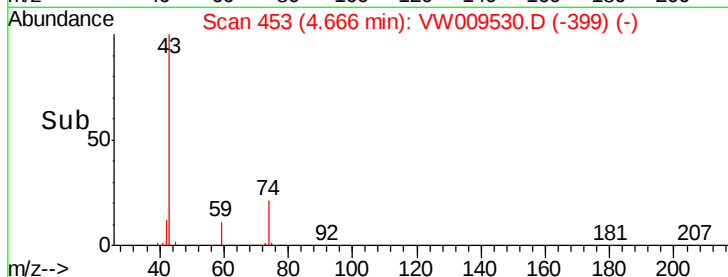
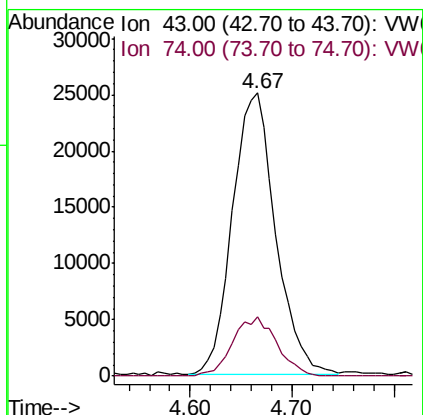
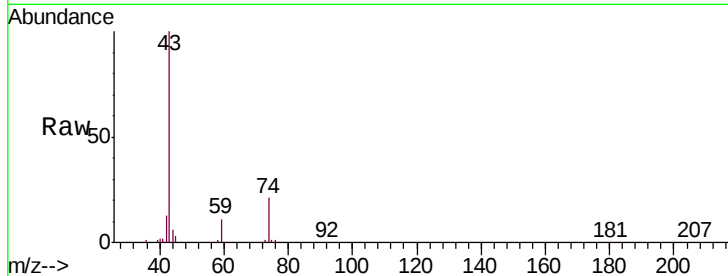




#15
Methyl Acetate
Concen: 20.318 ug/L
RT: 4.67 min Scan# 453
Delta R.T. 0.00 min
Lab File: VW009530.D
Acq: 28 Mar 2019 10:37

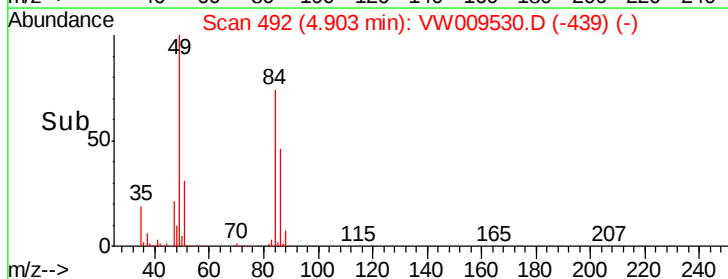
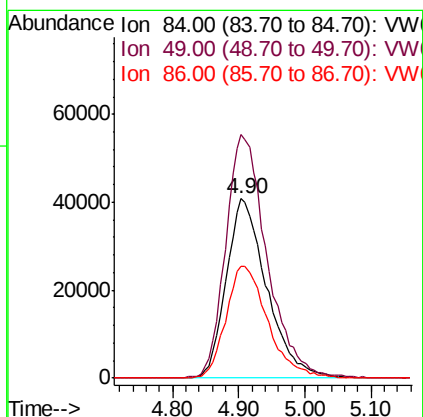
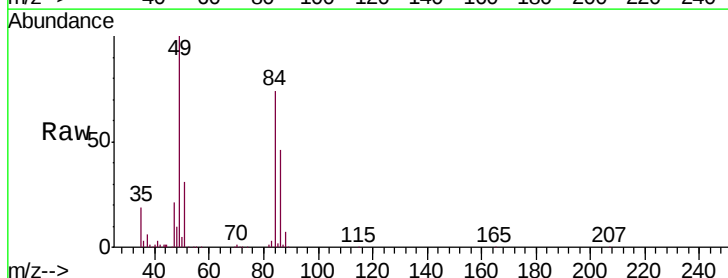
Instrument :
MSVOA_W
ClientSampled :
BFB12

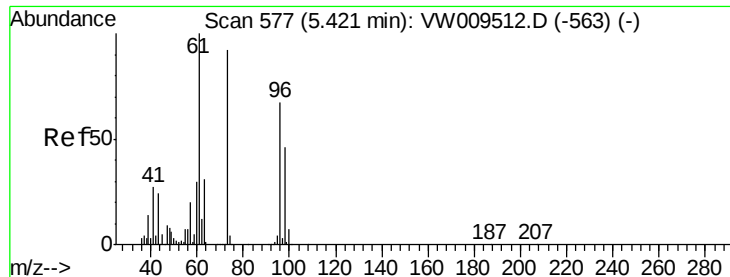
Tgt Ion: 43 Resp: 73418
Ion Ratio Lower Upper
43 100
74 21.4 16.7 25.1



#16
Methylene chloride
Concen: 26.216 ug/L
RT: 4.90 min Scan# 492
Delta R.T. -0.01 min
Lab File: VW009530.D
Acq: 28 Mar 2019 10:37

Tgt Ion: 84 Resp: 173506
Ion Ratio Lower Upper
84 100
49 135.7 96.0 178.2
86 62.4 44.4 82.5

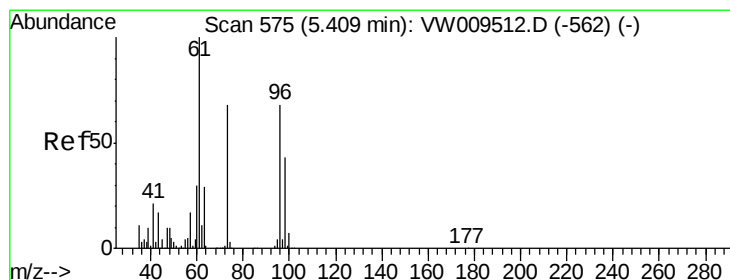
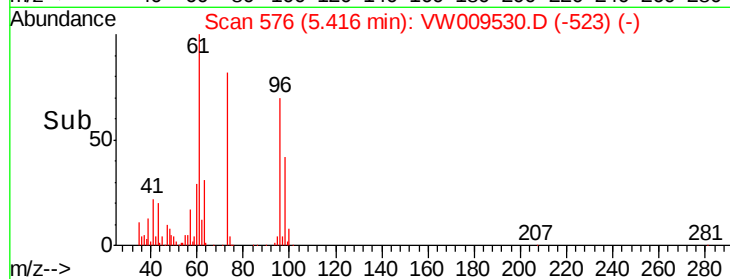
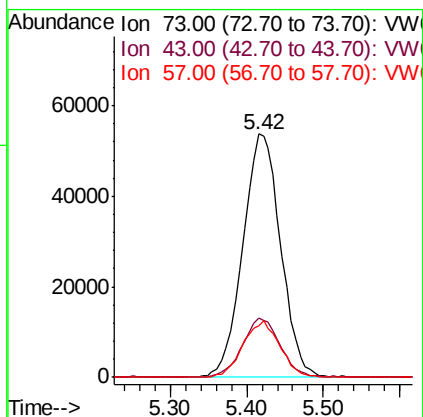
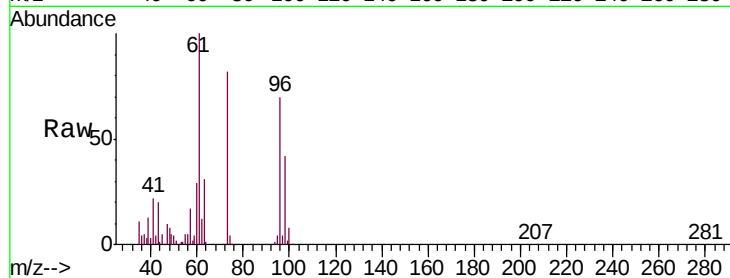




#17
Methyl tert-butyl Ether
Concen: 23.309 ug/L
RT: 5.42 min Scan# 576
Delta R.T. -0.01 min
Lab File: VW009530.D
Acq: 28 Mar 2019 10:37

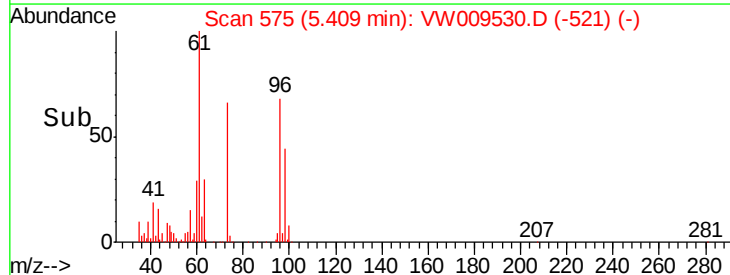
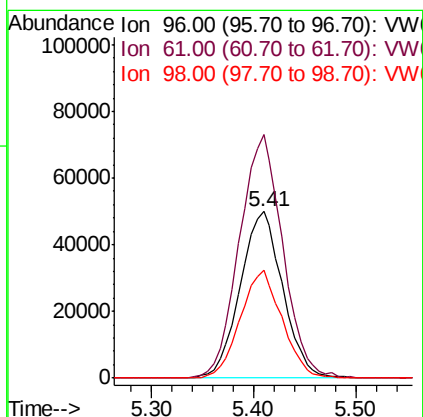
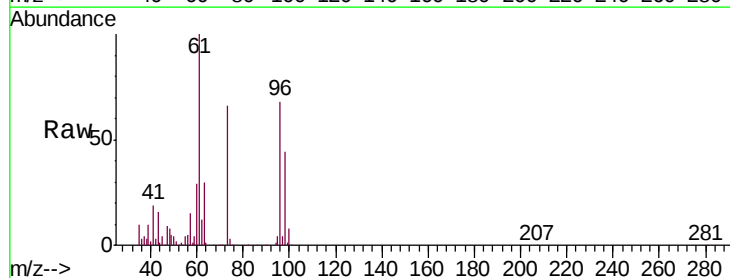
Instrument :
MSVOA_W
ClientSampled :
BFB12

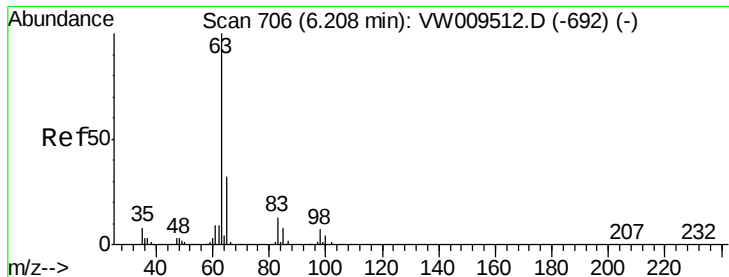
Tgt Ion: 73 Resp: 184319
Ion Ratio Lower Upper
73 100
43 24.2 18.2 27.4
57 22.8 17.8 26.8



#18
trans-1,2-Dichloroethene
Concen: 24.672 ug/L
RT: 5.41 min Scan# 575
Delta R.T. 0.00 min
Lab File: VW009530.D
Acq: 28 Mar 2019 10:37

Tgt Ion: 96 Resp: 144971
Ion Ratio Lower Upper
96 100
61 146.0 96.7 179.5
98 64.5 43.8 81.4





#19

1,1-Dichloroethane

Concen: 26.609 ug/L

RT: 6.20 min Scan# 705

Delta R.T. -0.01 min

Lab File: VW009530.D

Acq: 28 Mar 2019 10:37

Instrument :

MSVOA_W

ClientSampleId :

BFB12

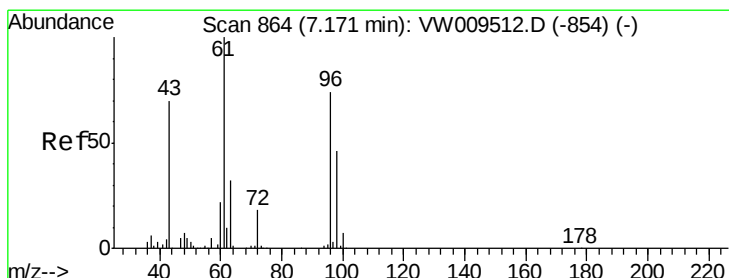
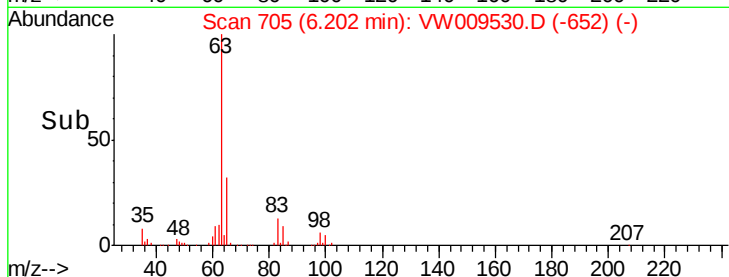
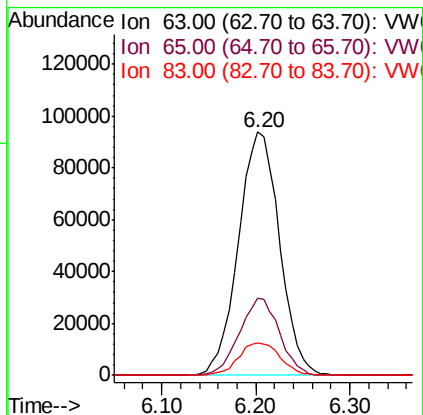
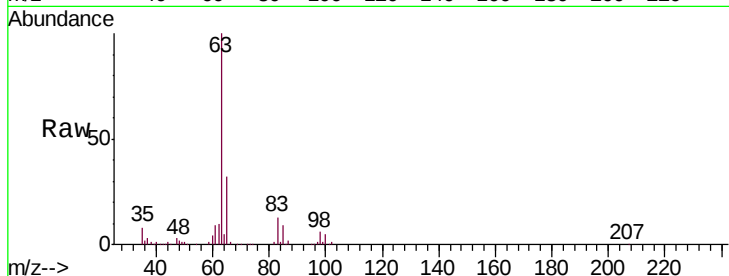
Tgt Ion: 63 Resp: 285082

Ion Ratio Lower Upper

63 100

65 31.9 21.6 40.0

83 13.4 10.1 18.7



#21

2-Butanone

Concen: 41.983 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW009530.D

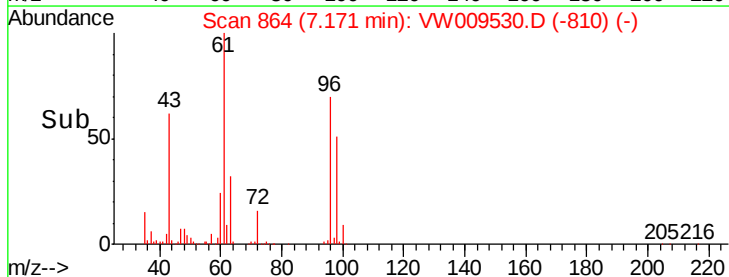
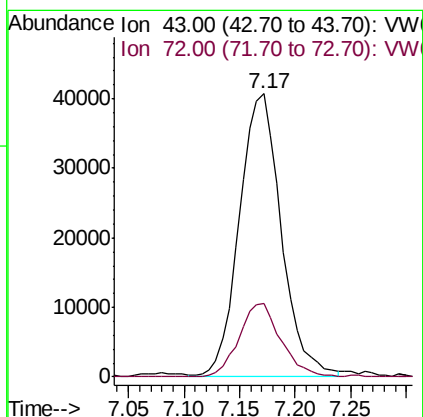
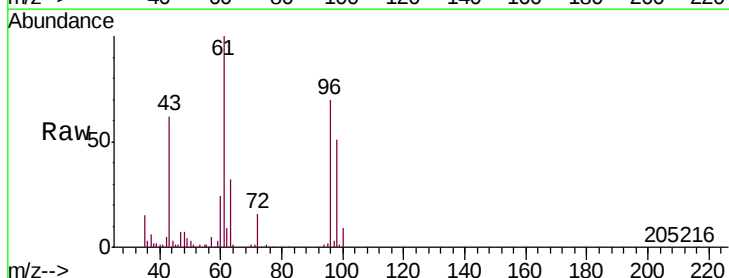
Acq: 28 Mar 2019 10:37

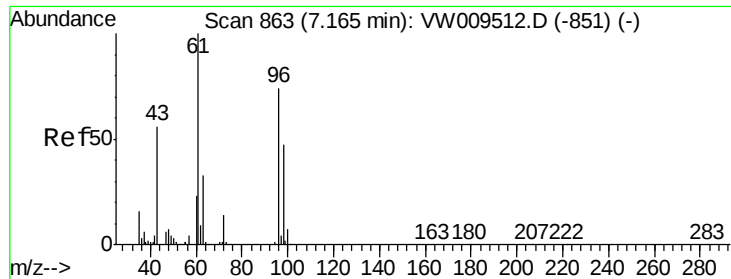
Tgt Ion: 43 Resp: 106623

Ion Ratio Lower Upper

43 100

72 25.8 13.1 39.1

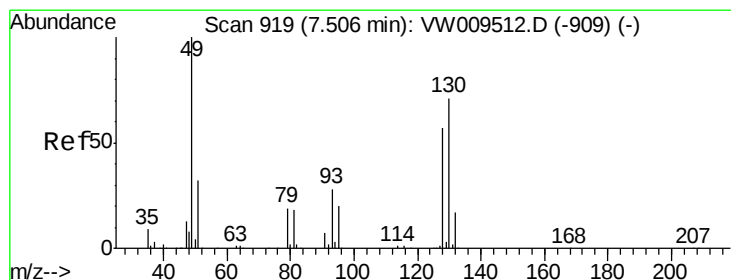
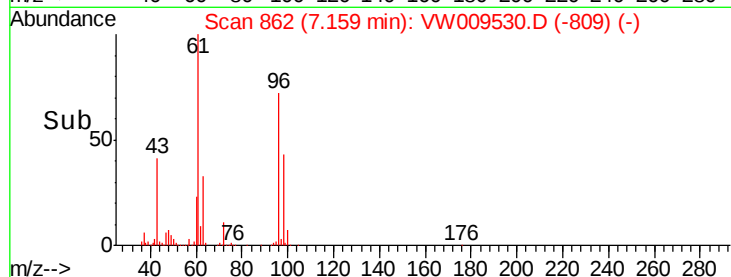
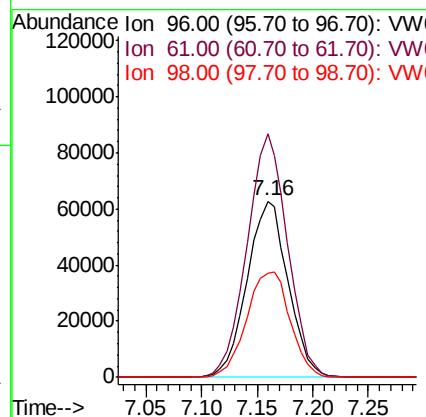
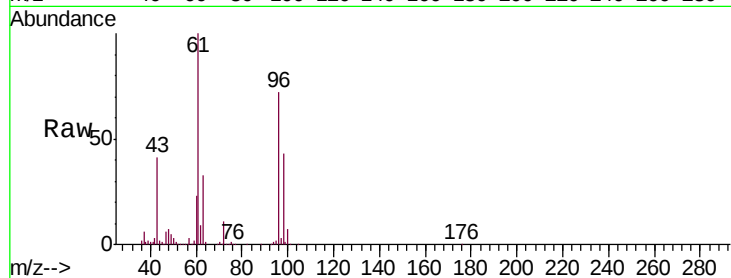




#22
 cis-1,2-Dichloroethene
 Concen: 25.297 ug/L
 RT: 7.16 min Scan# 862
 Delta R.T. -0.01 min
 Lab File: VW009530.D
 Acq: 28 Mar 2019 10:37

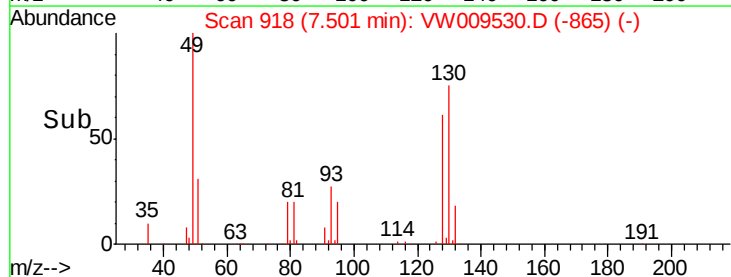
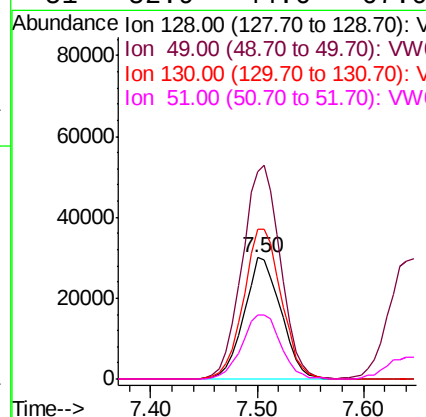
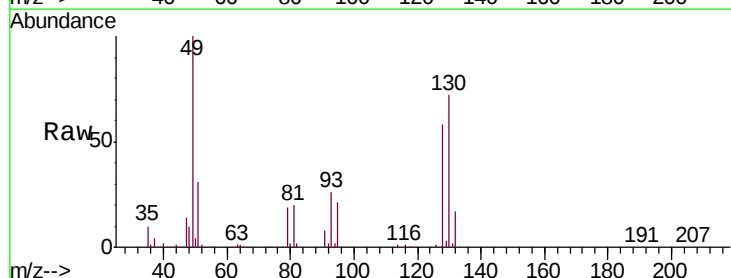
Instrument :
 MSVOA_W
 ClientSampled :
 BFB12

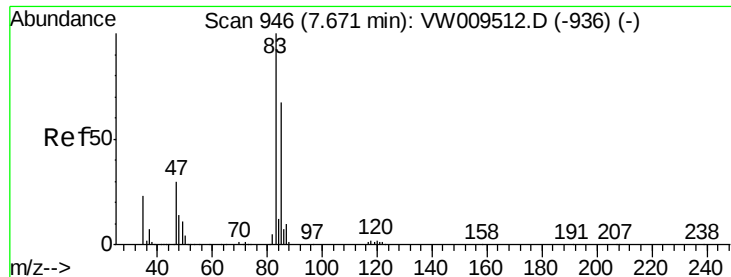
Tgt Ion: 96 Resp: 161022
 Ion Ratio Lower Upper
 96 100
 61 138.1 90.6 168.3
 98 59.4 44.0 81.8



#23
 Bromochloromethane
 Concen: 23.931 ug/L
 RT: 7.50 min Scan# 918
 Delta R.T. -0.01 min
 Lab File: VW009530.D
 Acq: 28 Mar 2019 10:37

Tgt Ion: 128 Resp: 73060
 Ion Ratio Lower Upper
 128 100
 49 171.3 118.4 219.8
 130 123.5 87.8 163.2
 51 52.9 44.6 67.0





#25

Chloroform

Concen: 26.826 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW009530.D

Acq: 28 Mar 2019 10:37

Instrument :

MSVOA_W

ClientSampled :

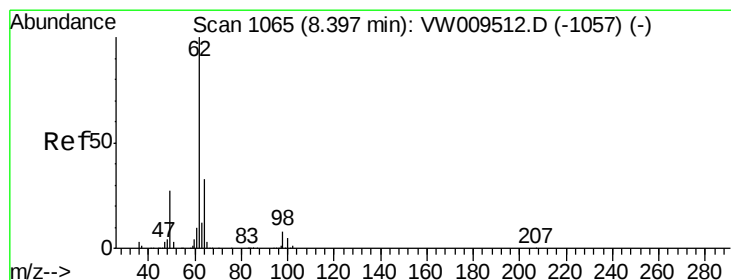
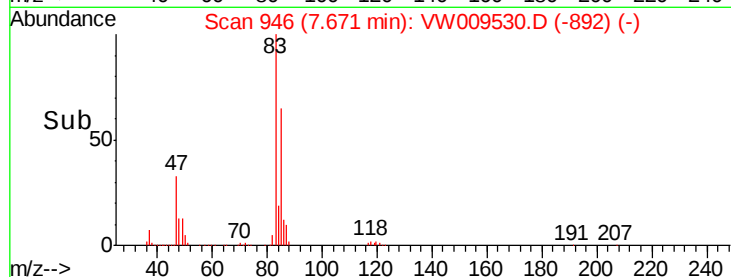
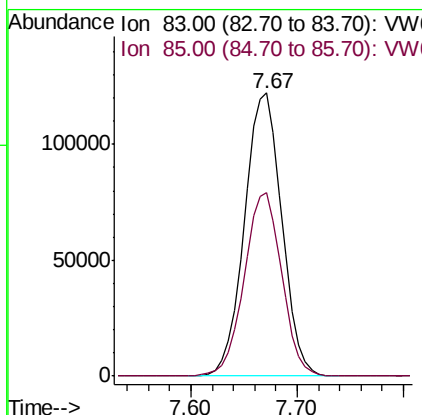
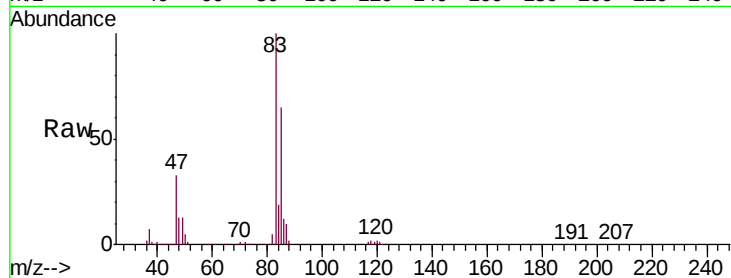
BFB12

Tgt Ion: 83 Resp: 300989

Ion Ratio Lower Upper

83 100

85 64.9 46.0 85.4



#27

1,2-Dichloroethane

Concen: 25.515 ug/L

RT: 8.39 min Scan# 1064

Delta R.T. -0.01 min

Lab File: VW009530.D

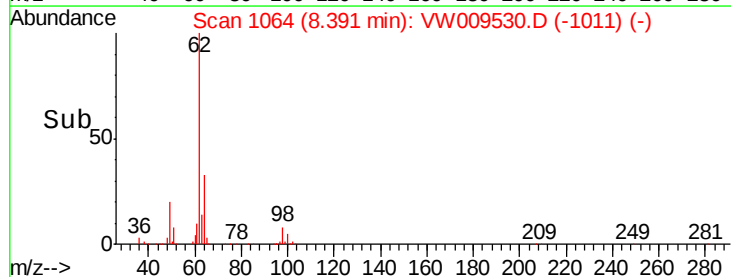
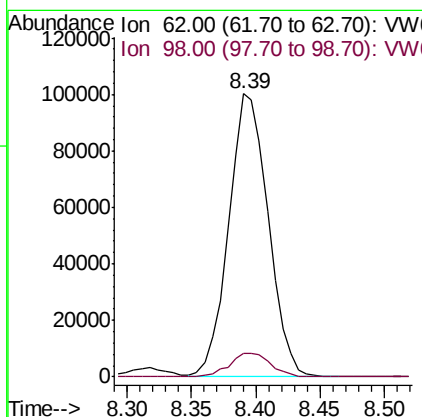
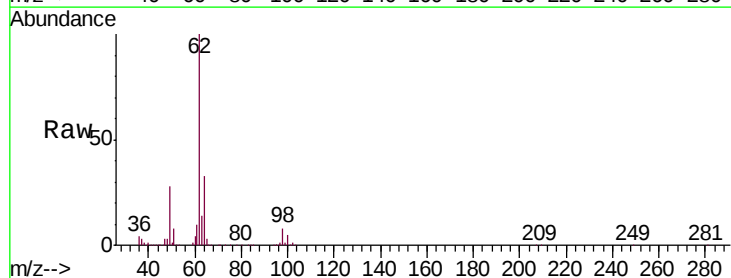
Acq: 28 Mar 2019 10:37

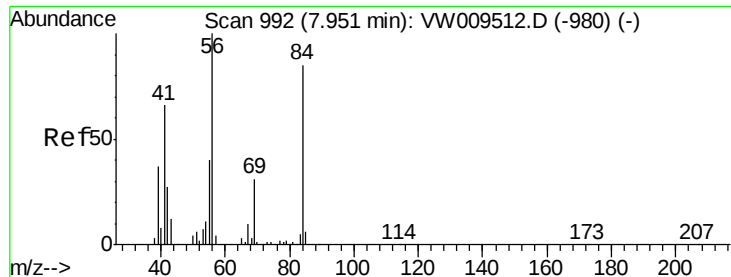
Tgt Ion: 62 Resp: 213436

Ion Ratio Lower Upper

62 100

98 8.4 7.3 10.9

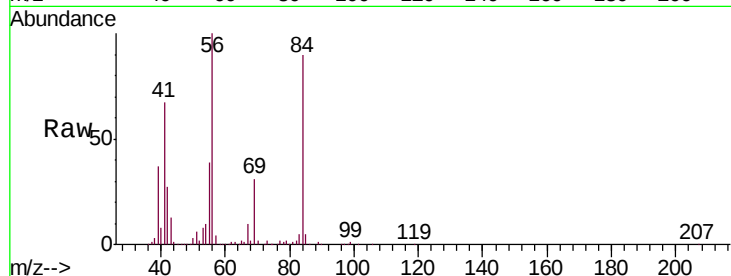




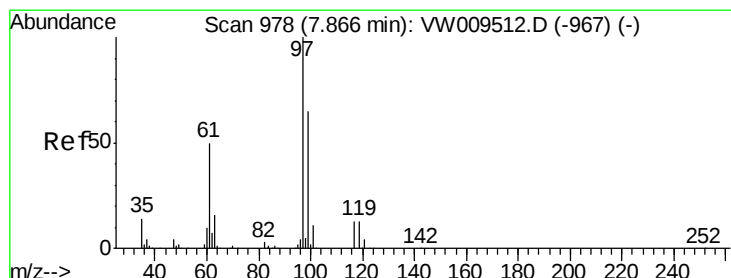
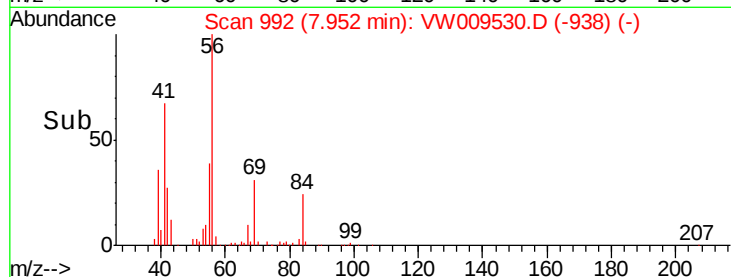
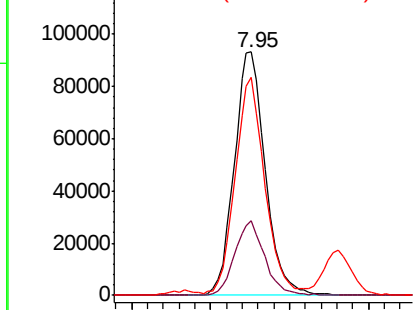
#30
Cyclohexane
Concen: 25.896 ug/L
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW009530.D
Acq: 28 Mar 2019 10:37

Instrument :
MSVOA_W
ClientSampled :
BFB12

Tgt Ion: 56 Resp: 254768
Ion Ratio Lower Upper
56 100
69 29.3 24.0 36.0
84 85.6 69.2 103.8

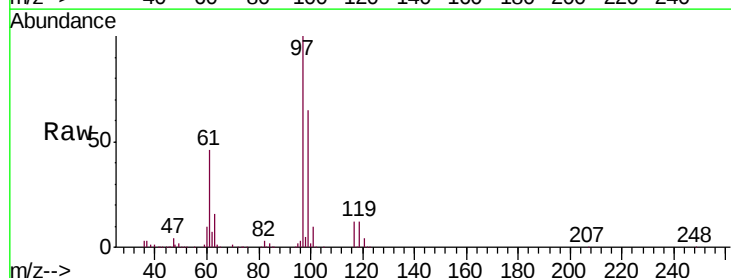


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

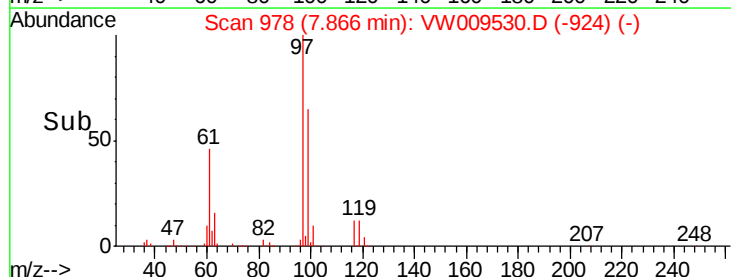
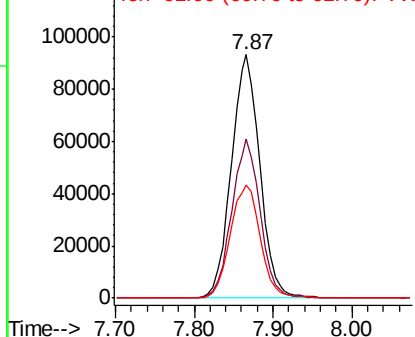


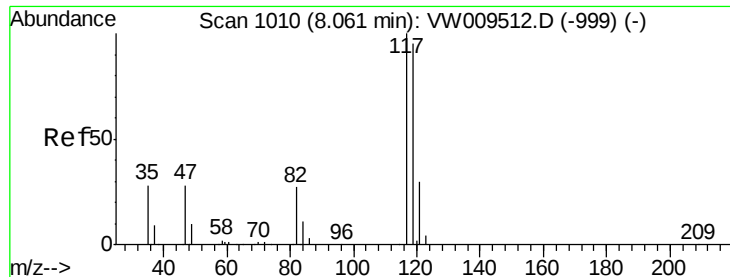
#31
1,1,1-Trichloroethane
Concen: 27.020 ug/L
RT: 7.87 min Scan# 978
Delta R.T. 0.00 min
Lab File: VW009530.D
Acq: 28 Mar 2019 10:37

Tgt Ion: 97 Resp: 233771
Ion Ratio Lower Upper
97 100
99 64.9 51.2 76.8
61 49.0 38.4 57.6



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





#32

Carbon tetrachloride

Concen: 27.346 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VW009530.D

Acq: 28 Mar 2019 10:37

Instrument :

MSVOA_W

ClientSampled :

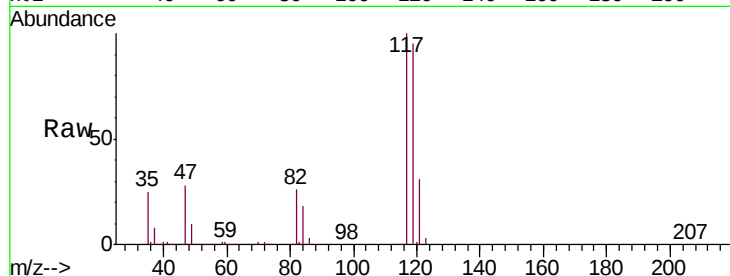
BFB12

Tgt Ion:117 Resp: 238702

Ion Ratio Lower Upper

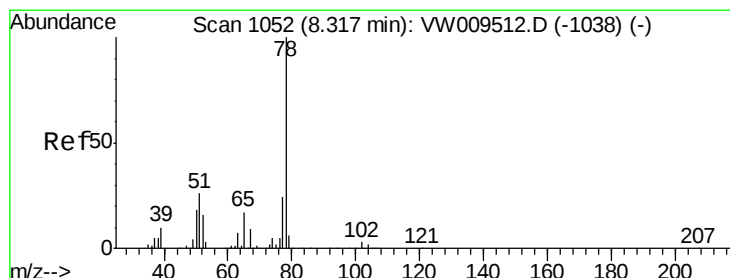
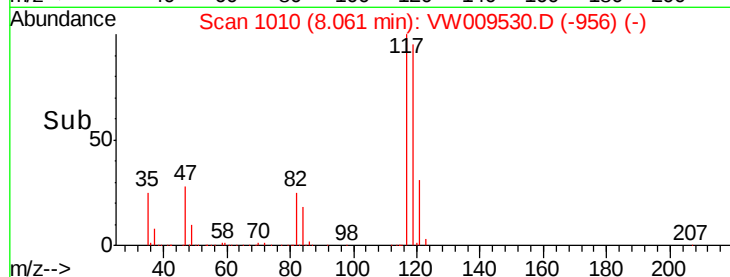
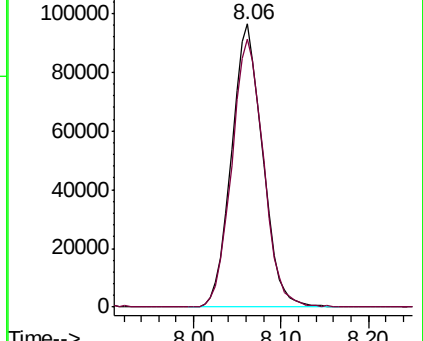
117 100

119 96.0 78.0 117.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 26.659 ug/L

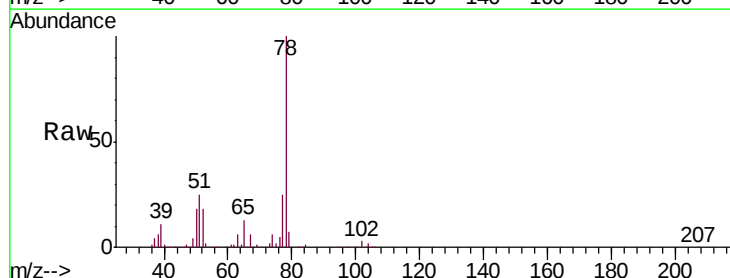
RT: 8.32 min Scan# 1052

Delta R.T. 0.00 min

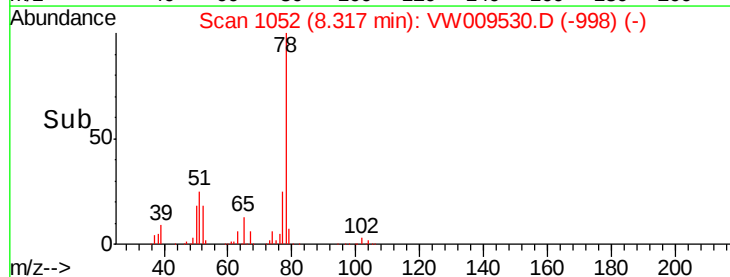
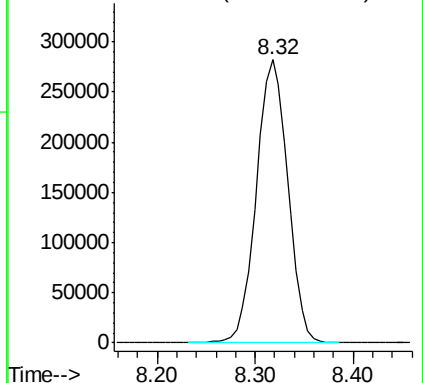
Lab File: VW009530.D

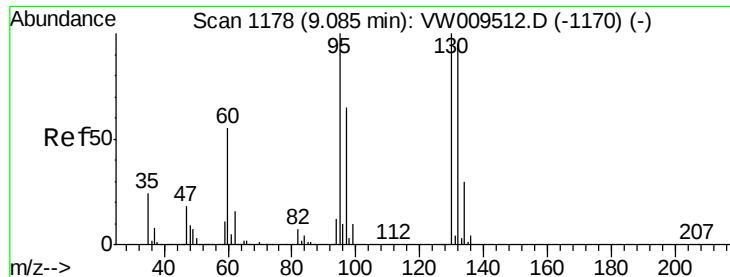
Acq: 28 Mar 2019 10:37

Tgt Ion: 78 Resp: 632096



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 25.597 ug/L

RT: 9.09 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VW009530.D

Acq: 28 Mar 2019 10:37

Instrument :

MSVOA_W

ClientSampled :

BFB12

Tgt Ion: 95 Resp: 161715

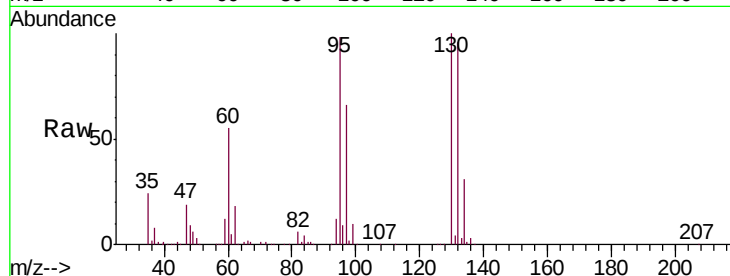
Ion Ratio Lower Upper

95 100

97 65.6 44.7 82.9

132 97.2 69.0 128.2

130 100.3 72.7 134.9

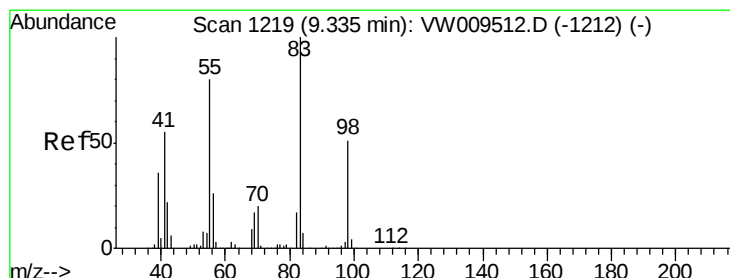
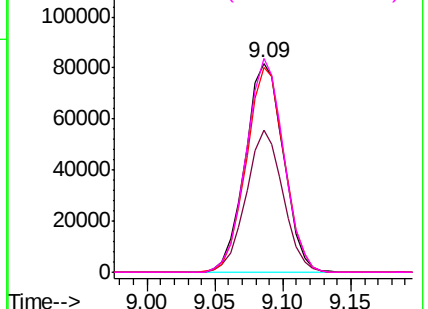
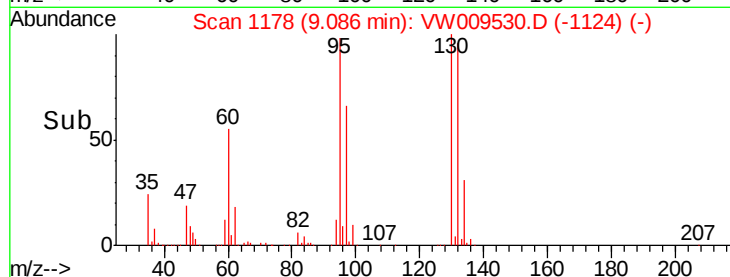


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 25.572 ug/L

RT: 9.33 min Scan# 1218

Delta R.T. -0.01 min

Lab File: VW009530.D

Acq: 28 Mar 2019 10:37

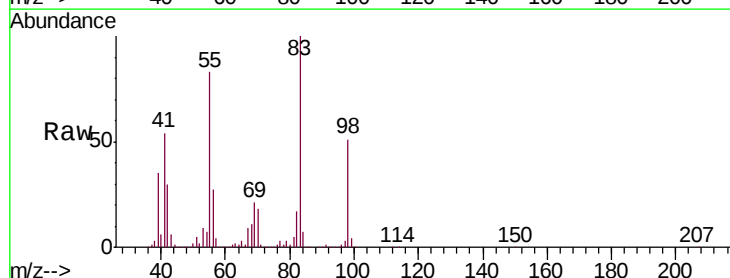
Tgt Ion: 83 Resp: 279508

Ion Ratio Lower Upper

83 100

55 82.9 63.5 95.3

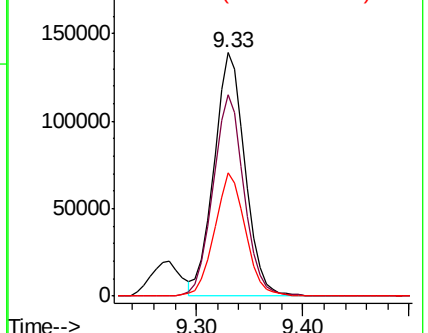
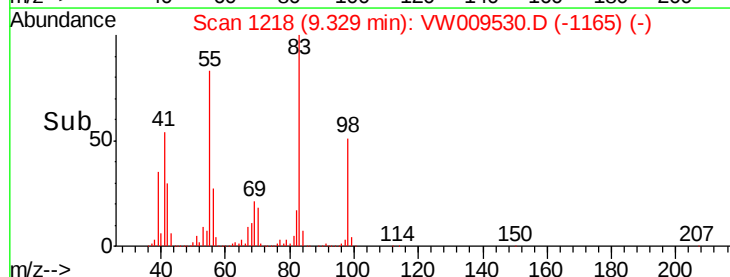
98 50.4 39.8 59.8

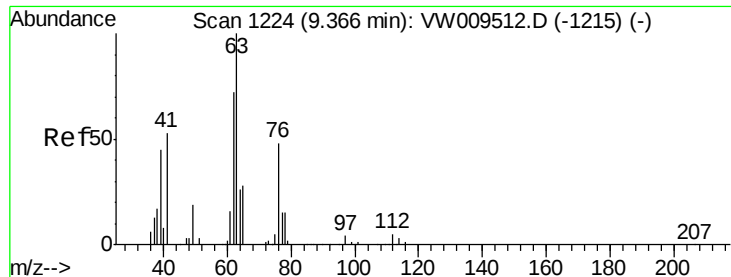


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW

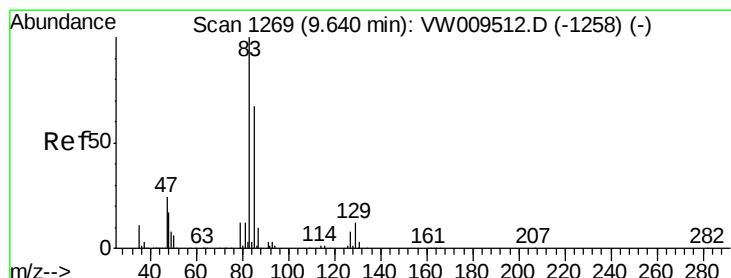
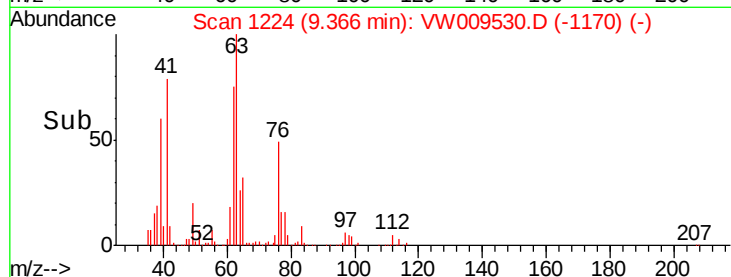
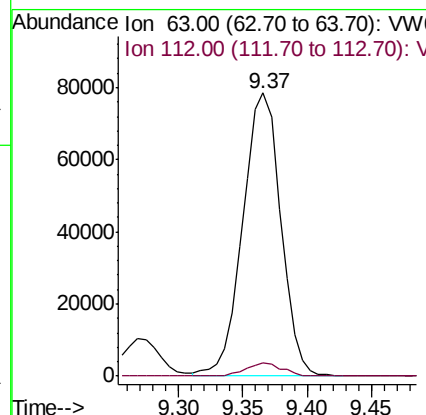
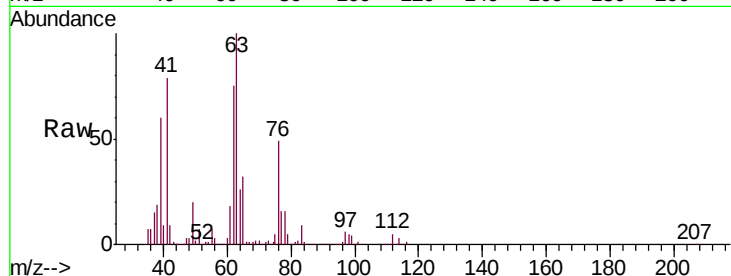




#40
 1,2-Dichloropropane
 Concen: 26.365 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW009530.D
 Acq: 28 Mar 2019 10:37

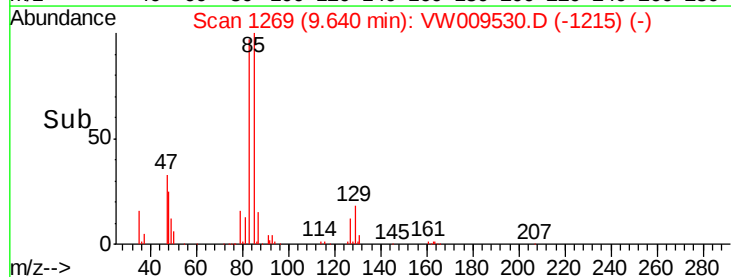
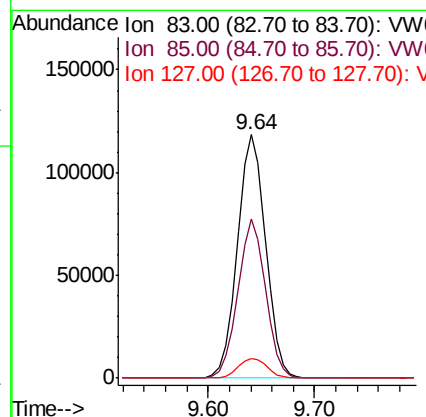
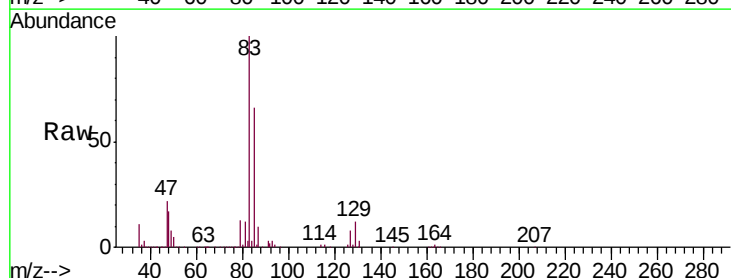
Instrument :
 MSVOA_W
 ClientSampleId :
 BFB12

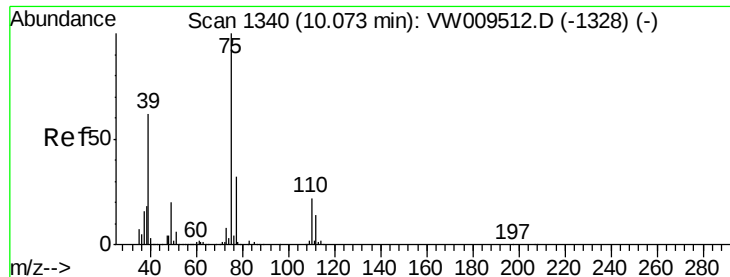
Tgt Ion: 63 Resp: 160413
 Ion Ratio Lower Upper
 63 100
 112 4.6 4.0 6.0



#41
 Bromodichloromethane
 Concen: 26.175 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VW009530.D
 Acq: 28 Mar 2019 10:37

Tgt Ion: 83 Resp: 220661
 Ion Ratio Lower Upper
 83 100
 85 65.6 43.5 80.7
 127 7.9 6.2 9.4





#42

cis-1,3-Dichloropropene

Concen: 25.483 ug/L

RT: 10.07 min Scan# 1339

Delta R.T. -0.01 min

Lab File: VW009530.D

Acq: 28 Mar 2019 10:37

Instrument :

MSVOA_W

ClientSampleId :

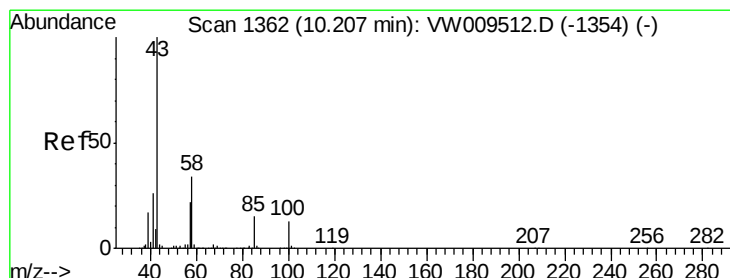
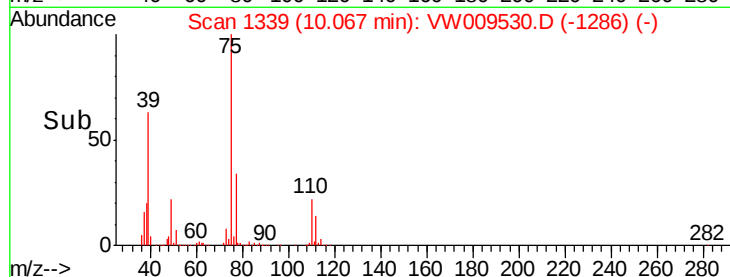
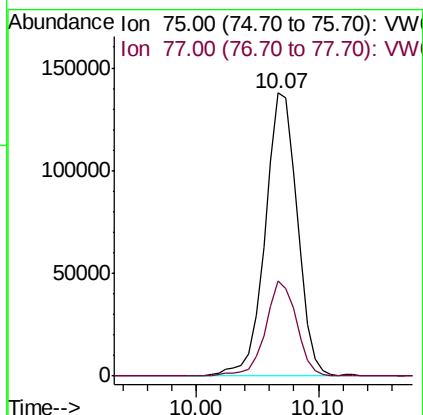
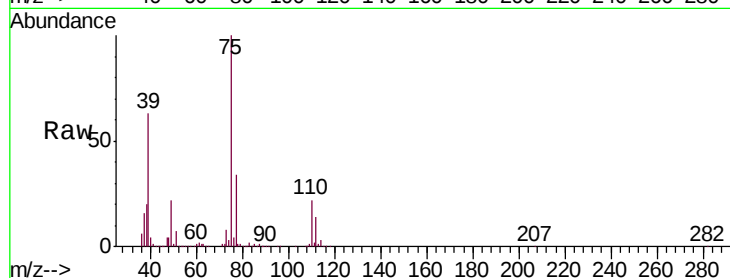
BFB12

Tgt Ion: 75 Resp: 252525

Ion Ratio Lower Upper

75 100

77 33.6 21.6 40.2



#43

4-Methyl-2-pentanone

Concen: 41.086 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW009530.D

Acq: 28 Mar 2019 10:37

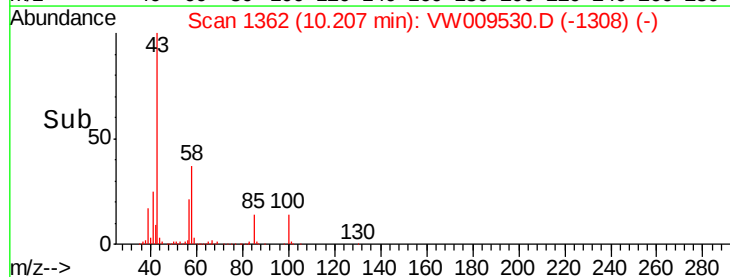
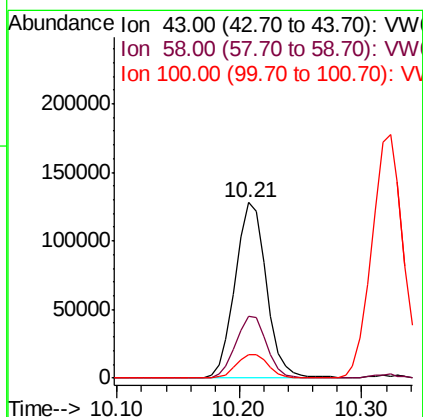
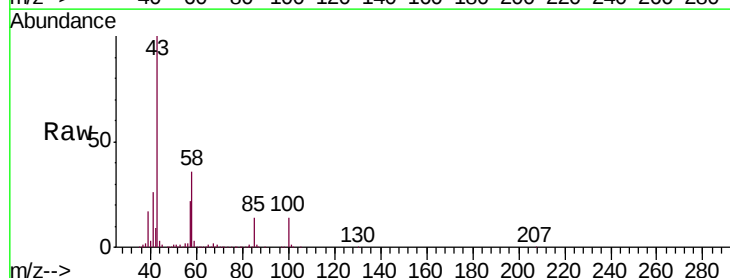
Tgt Ion: 43 Resp: 226517

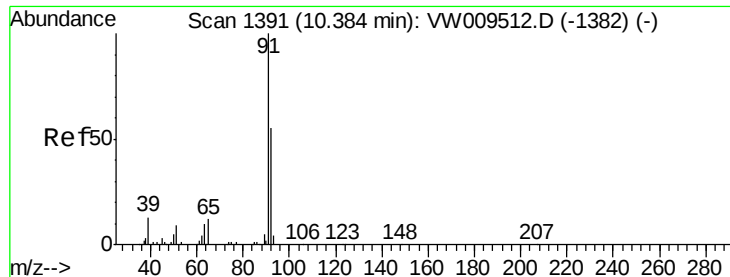
Ion Ratio Lower Upper

43 100

58 35.1 28.2 42.2

100 13.9 11.4 17.2





#44

Toluene

Concen: 26.932 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW009530.D

Acq: 28 Mar 2019 10:37

Instrument :

MSVOA_W

ClientSampleId :

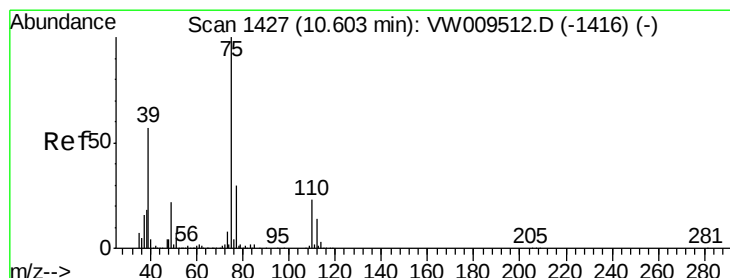
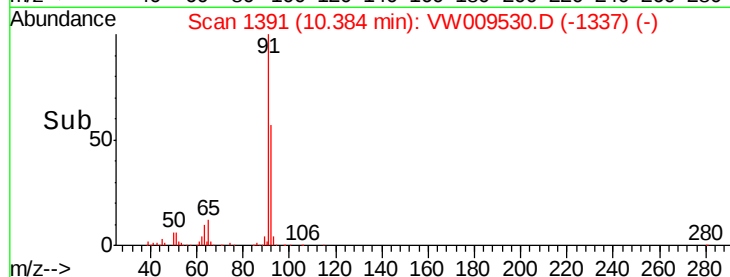
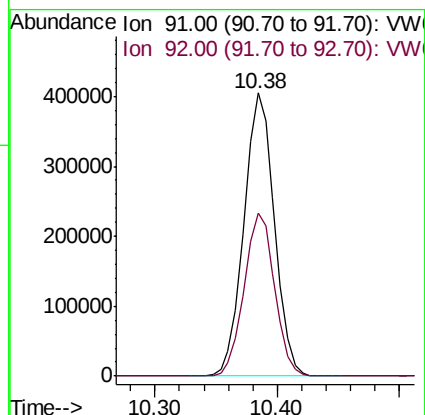
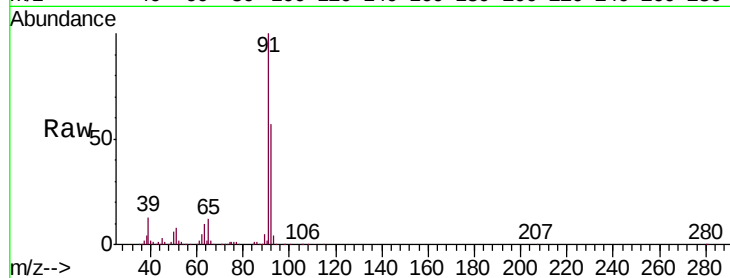
BFB12

Tgt Ion: 91 Resp: 698161

Ion Ratio Lower Upper

91 100

92 57.4 39.8 73.8



#45

trans-1,3-Dichloropropene

Concen: 25.049 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW009530.D

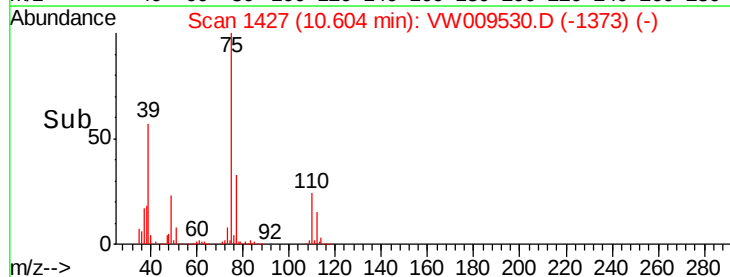
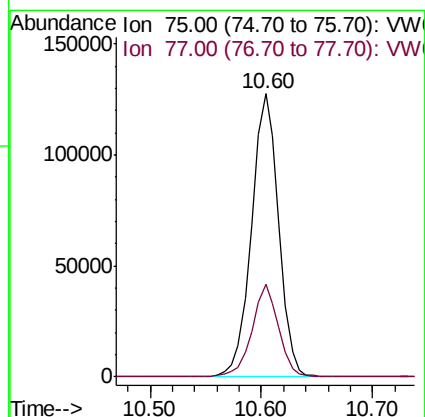
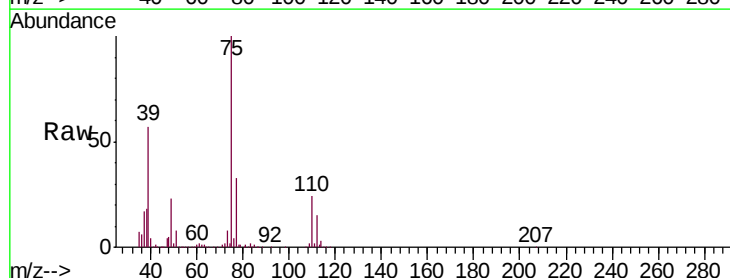
Acq: 28 Mar 2019 10:37

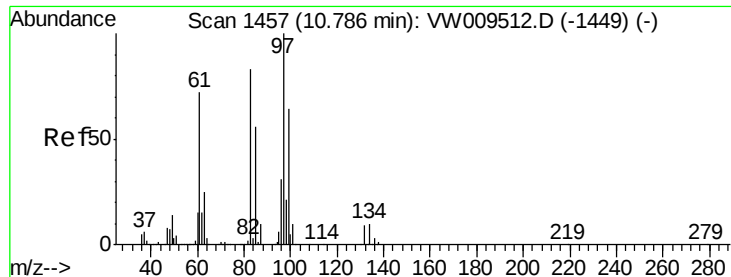
Tgt Ion: 75 Resp: 215932

Ion Ratio Lower Upper

75 100

77 32.5 22.5 41.7





#46

1,1,2-Trichloroethane

Concen: 24.546 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW009530.D

Acq: 28 Mar 2019 10:37

Instrument :

MSVOA_W

ClientSampleId :

BFB12

Tgt Ion: 97 Resp: 119143

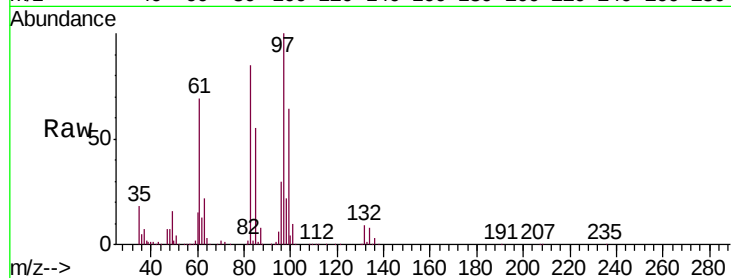
Ion Ratio Lower Upper

97 100

83 85.2 60.7 112.7

85 55.2 40.1 74.5

99 64.5 43.8 81.3

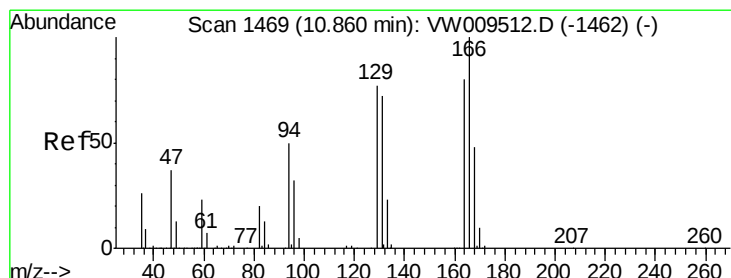
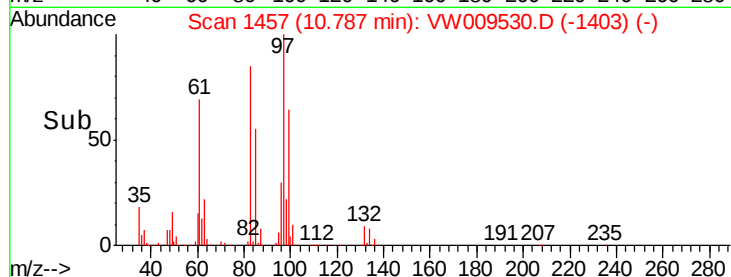
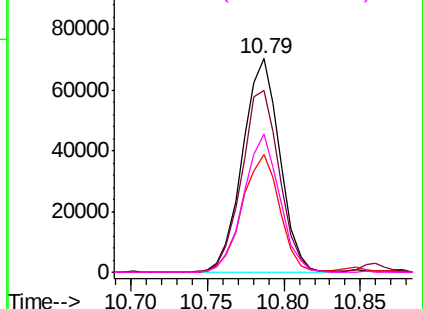


Abundance Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47

Tetrachloroethene

Concen: 25.415 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW009530.D

Acq: 28 Mar 2019 10:37

Tgt Ion: 164 Resp: 135670

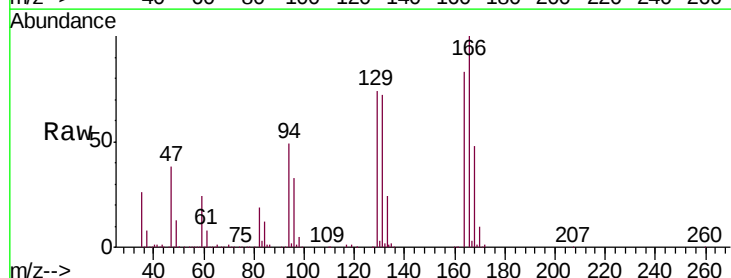
Ion Ratio Lower Upper

164 100

129 88.8 66.5 123.5

131 87.3 62.6 116.3

166 120.7 91.6 170.0

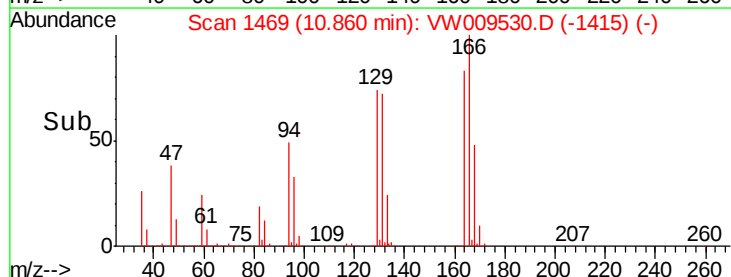
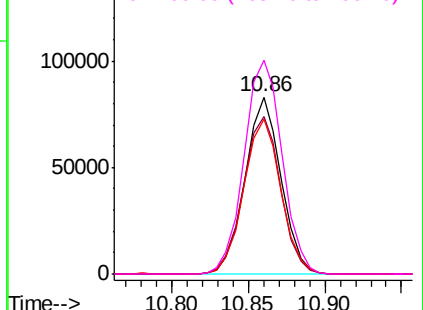


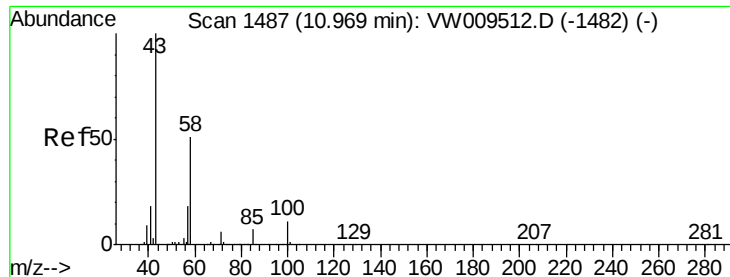
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#49

2-Hexanone

Concen: 43.129 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW009530.D

Acq: 28 Mar 2019 10:37

Instrument :

MSVOA_W

ClientSampleId :

BFB12

Tgt Ion: 43 Resp: 167469

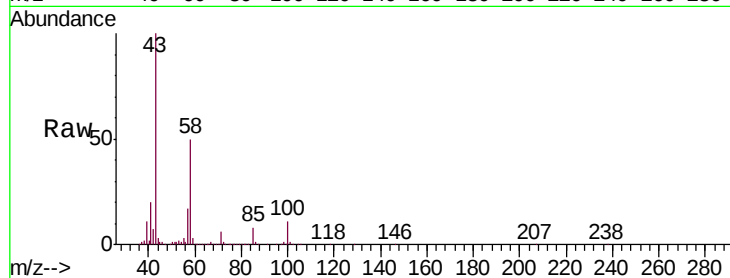
Ion Ratio Lower Upper

43 100

58 50.5 39.2 58.8

57 18.0 14.2 21.2

100 11.3 8.9 13.3

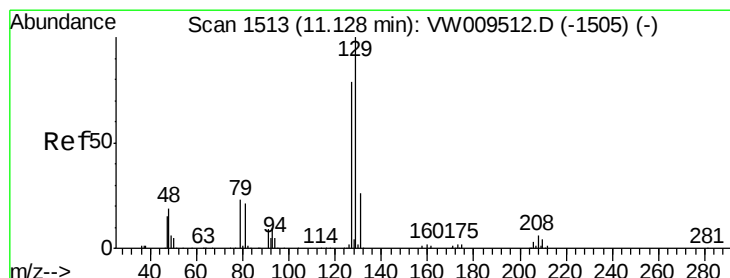
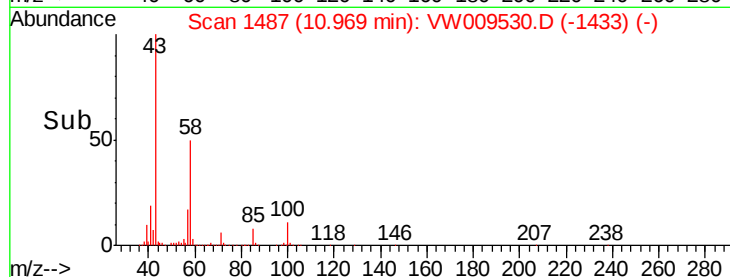
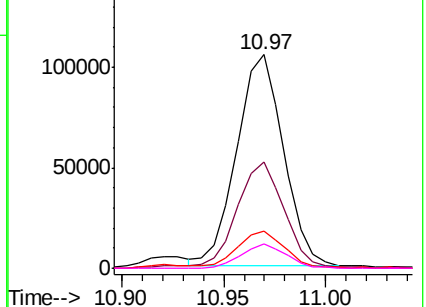


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW



#50

Dibromochloromethane

Concen: 24.494 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW009530.D

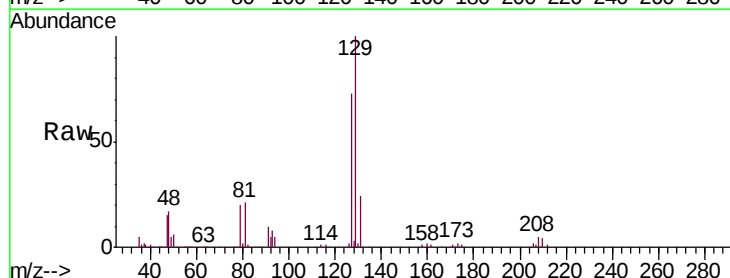
Acq: 28 Mar 2019 10:37

Tgt Ion: 129 Resp: 146767

Ion Ratio Lower Upper

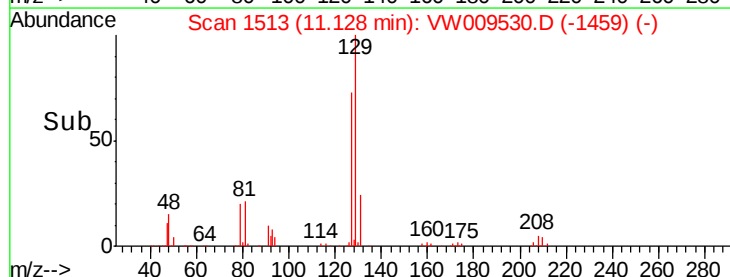
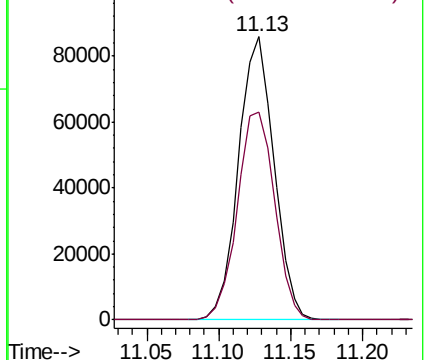
129 100

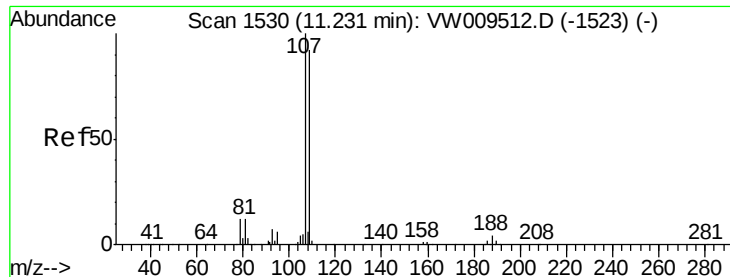
127 73.4 56.8 105.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

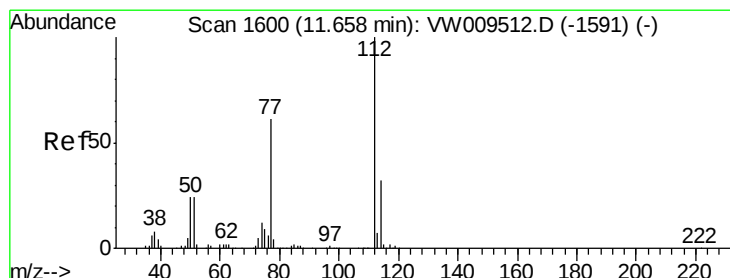
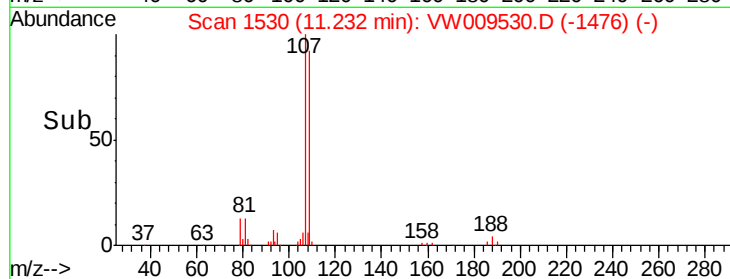
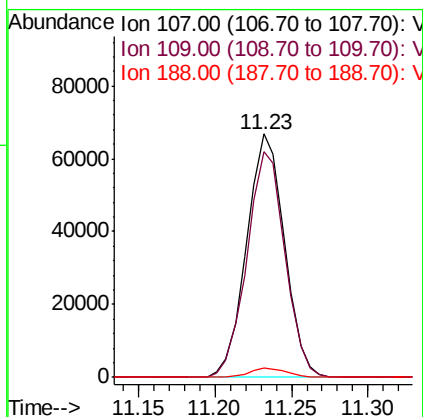
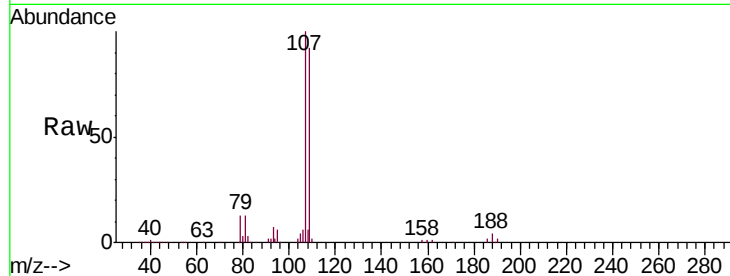




#51
 1,2-Dibromoethane
 Concen: 23.370 ug/L
 RT: 11.23 min Scan# 1530
 Delta R.T. 0.00 min
 Lab File: VW009530.D
 Acq: 28 Mar 2019 10:37

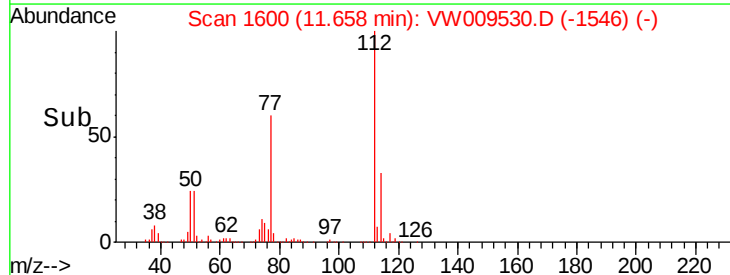
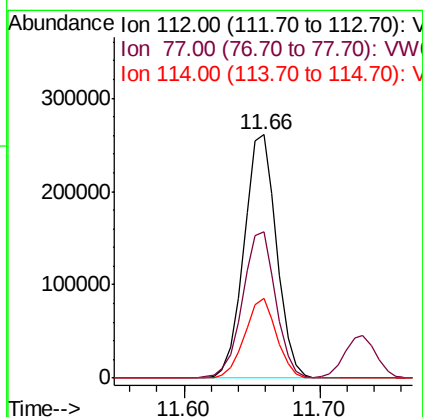
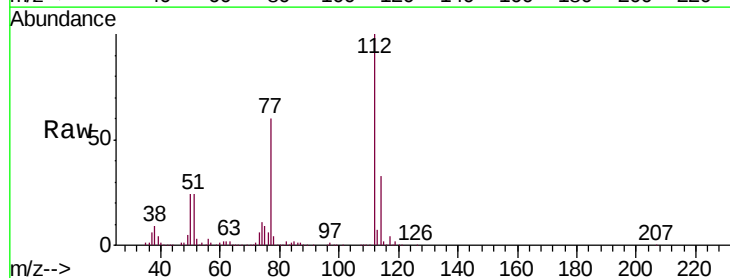
Instrument :
 MSVOA_W
 ClientSampleId :
 BFB12

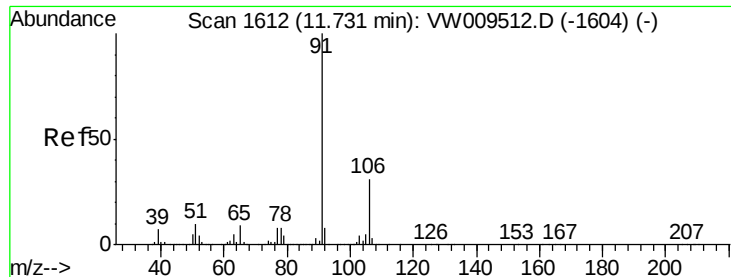
Tgt Ion	Ratio	Lower	Upper
107	100		
109	92.5	68.0	126.4
188	3.9	3.5	5.3



#52
 Chlorobenzene
 Concen: 26.235 ug/L
 RT: 11.66 min Scan# 1600
 Delta R.T. 0.00 min
 Lab File: VW009530.D
 Acq: 28 Mar 2019 10:37

Tgt Ion	Ratio	Lower	Upper
112	100		
77	60.2	45.7	68.5
114	32.6	22.8	42.4

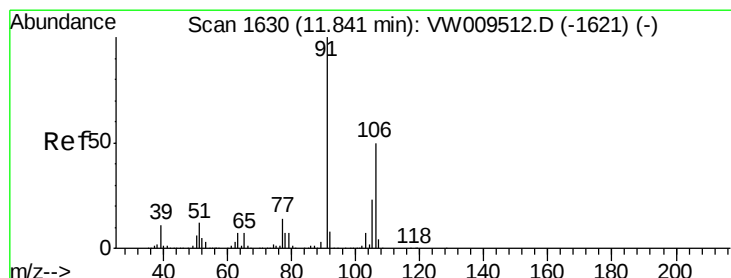
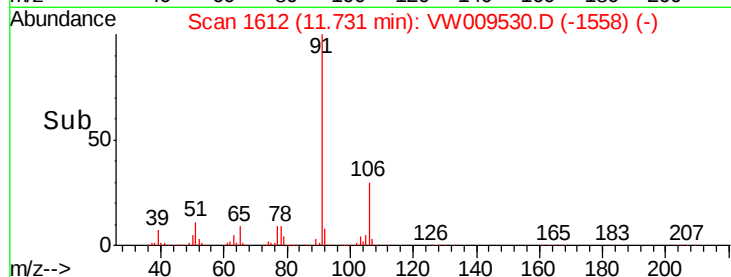
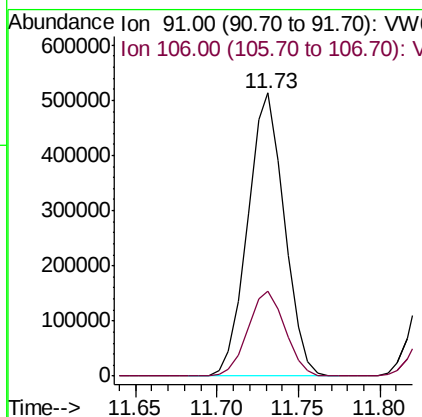
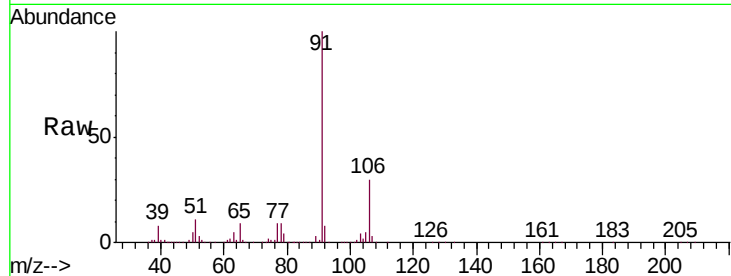




#53
Ethylbenzene
Concen: 27.573 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW009530.D
Acq: 28 Mar 2019 10:37

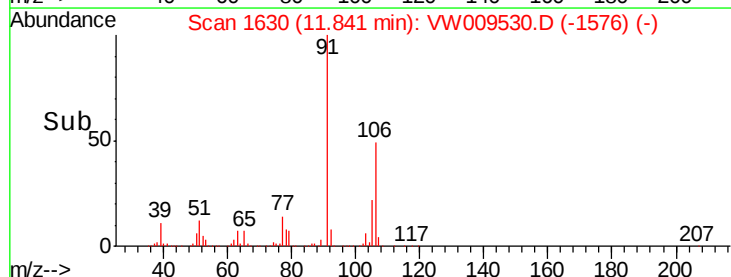
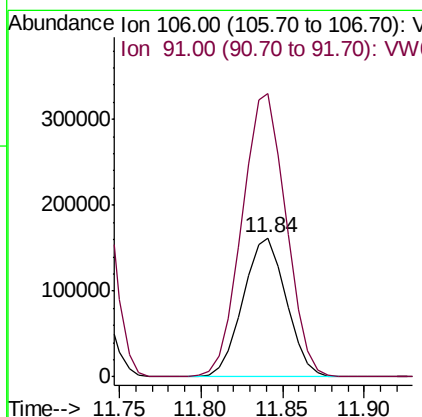
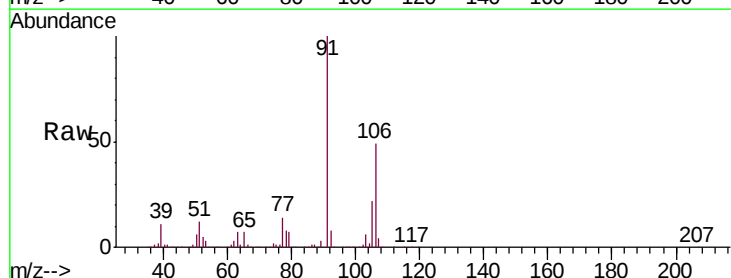
Instrument :
MSVOA_W
ClientSampled :
BFB12

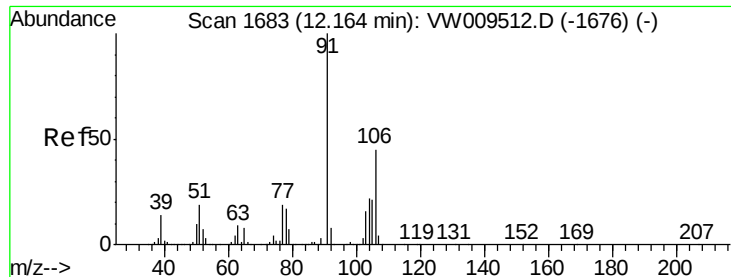
Tgt Ion: 91 Resp: 803606
Ion Ratio Lower Upper
91 100
106 30.0 21.0 39.0



#54
m,p-Xylene
Concen: 26.998 ug/L
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW009530.D
Acq: 28 Mar 2019 10:37

Tgt Ion: 106 Resp: 298942
Ion Ratio Lower Upper
106 100
91 203.6 138.4 257.0





#55

o-xylene

Concen: 26.945 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW009530.D

Acq: 28 Mar 2019 10:37

Instrument :

MSVOA_W

ClientSampleId :

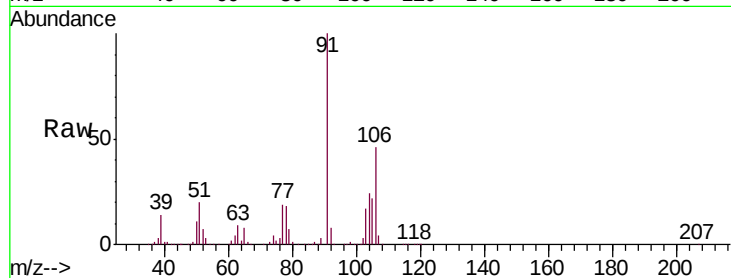
BFB12

Tgt Ion:106 Resp: 291073

Ion Ratio Lower Upper

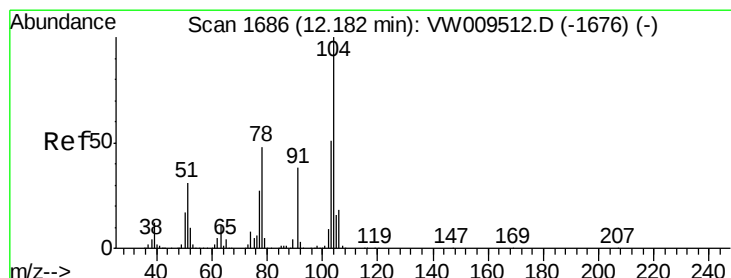
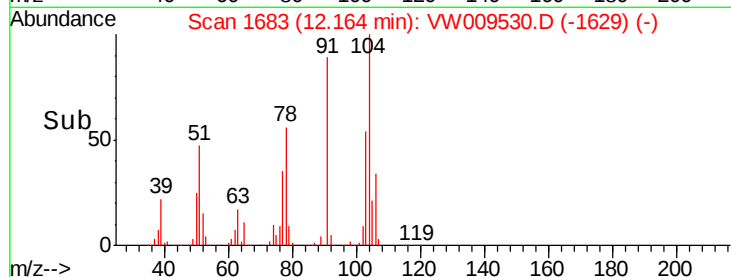
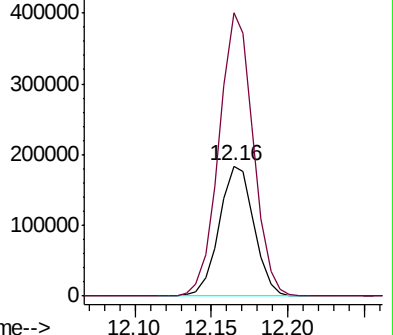
106 100

91 217.8 153.2 284.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 27.318 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VW009530.D

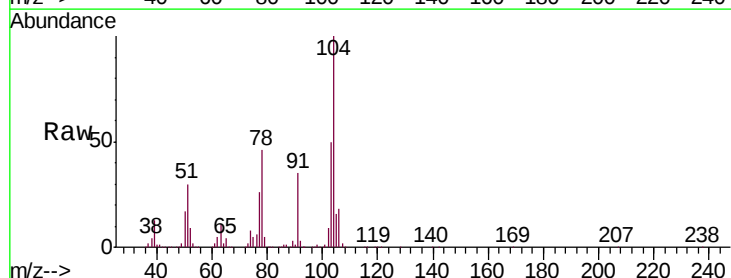
Acq: 28 Mar 2019 10:37

Tgt Ion:104 Resp: 503492

Ion Ratio Lower Upper

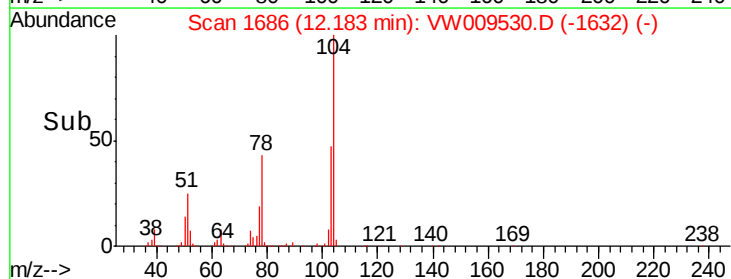
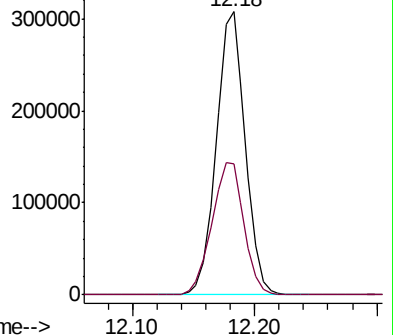
104 100

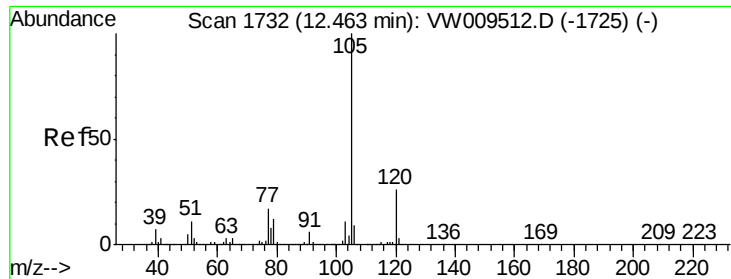
78 46.4 30.9 57.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 27.871 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW009530.D

Acq: 28 Mar 2019 10:37

Instrument :

MSVOA_W

ClientSampleId :

BFB12

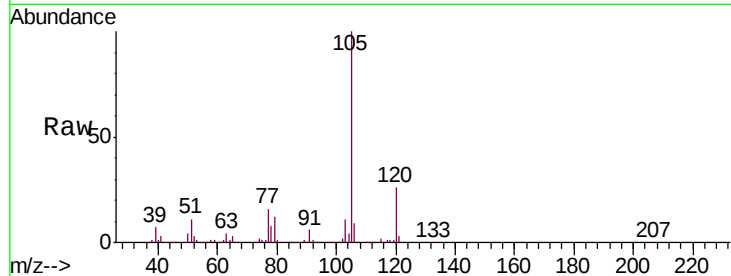
Tgt Ion: 105 Resp: 806504

Ion Ratio Lower Upper

105 100

120 25.8 21.3 31.9

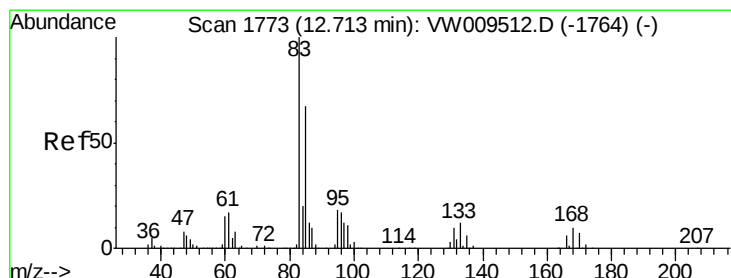
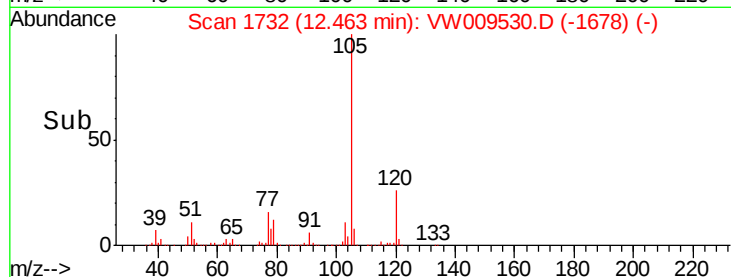
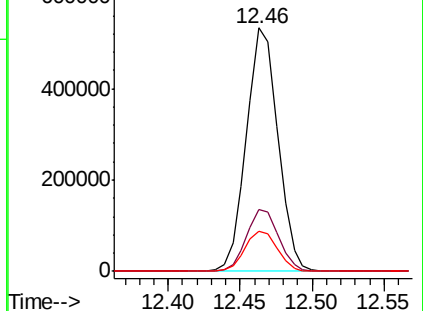
77 17.0 13.1 19.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 23.275 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW009530.D

Acq: 28 Mar 2019 10:37

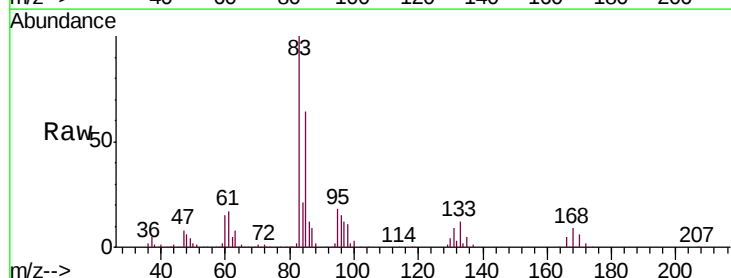
Tgt Ion: 83 Resp: 152408

Ion Ratio Lower Upper

83 100

85 63.8 45.6 84.8

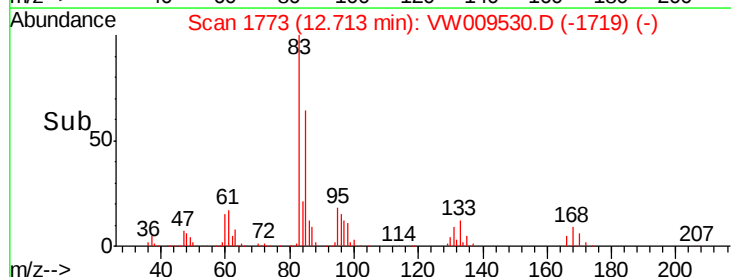
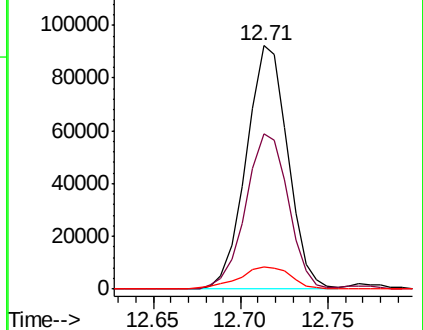
131 9.2 9.2 13.8#

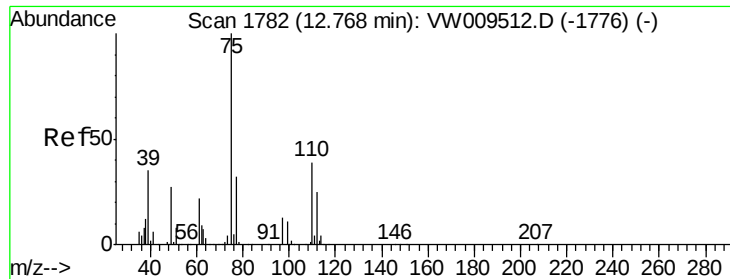


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 22.977 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW009530.D

Acq: 28 Mar 2019 10:37

Instrument :

MSVOA_W

ClientSampleId :

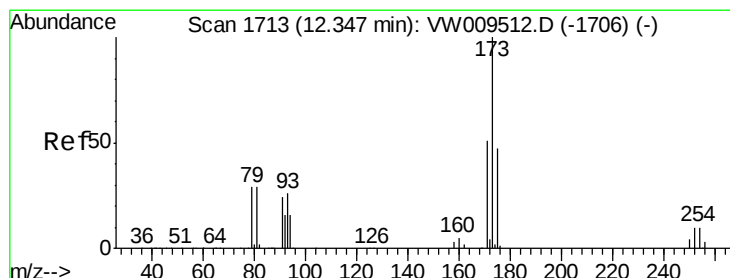
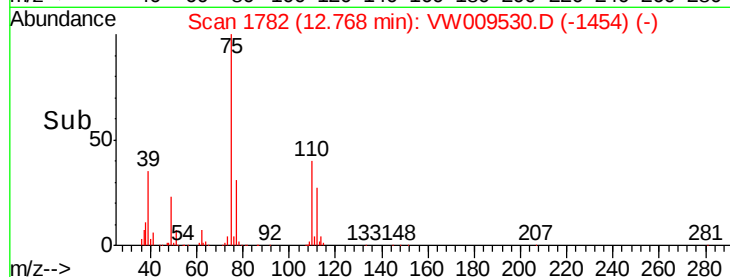
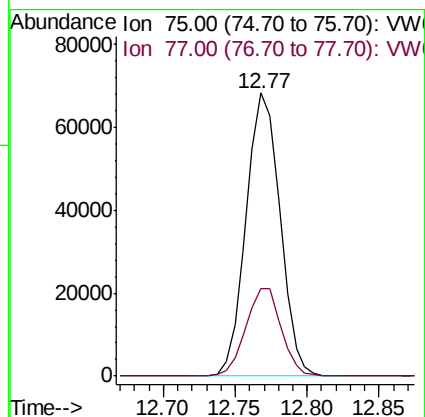
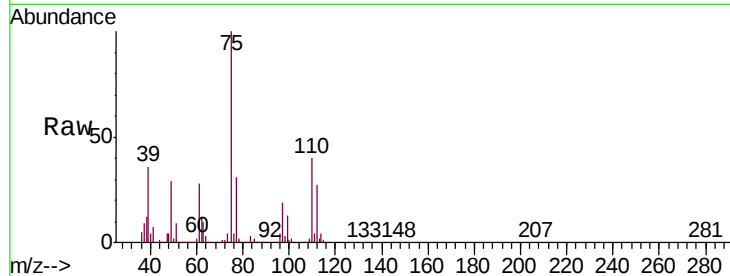
BFB12

Tgt Ion: 75 Resp: 111658

Ion Ratio Lower Upper

75 100

77 32.4 26.2 39.2



#62

Bromoform

Concen: 21.891 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW009530.D

Acq: 28 Mar 2019 10:37

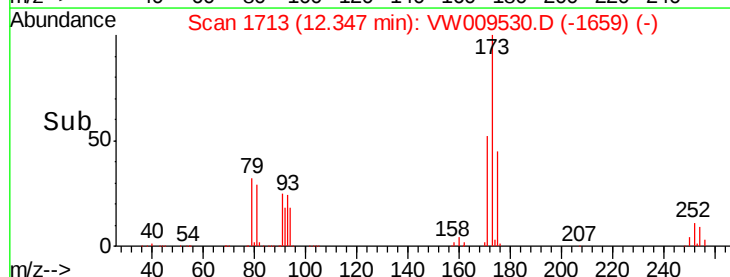
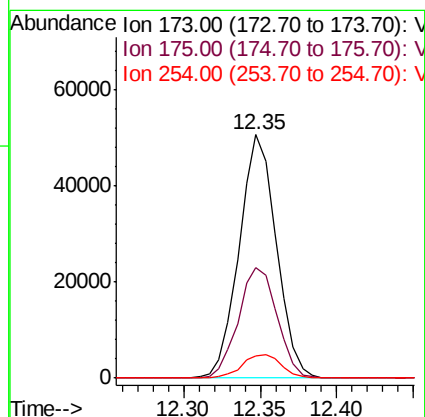
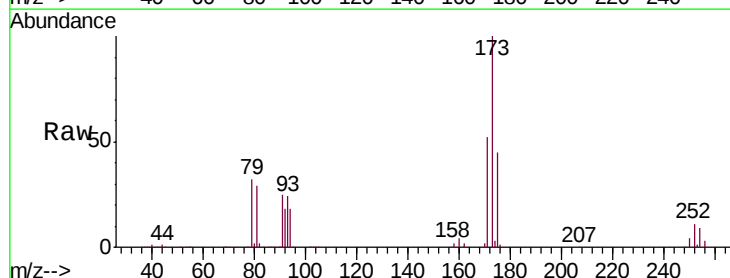
Tgt Ion: 173 Resp: 85492

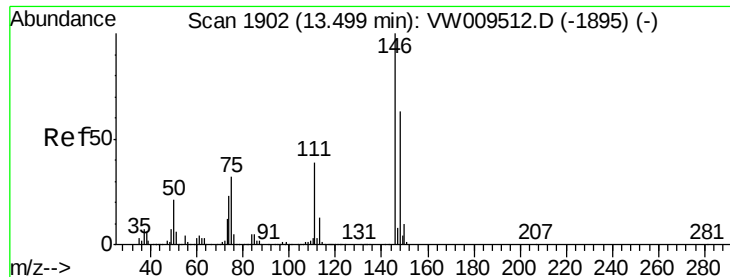
Ion Ratio Lower Upper

173 100

175 47.3 39.7 59.5

254 10.4 8.5 12.7

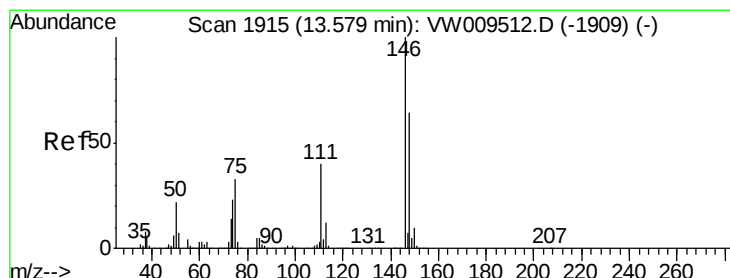
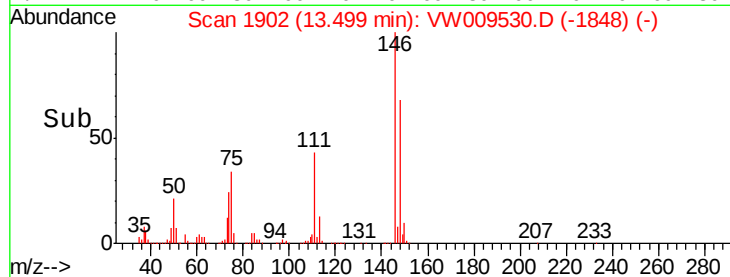
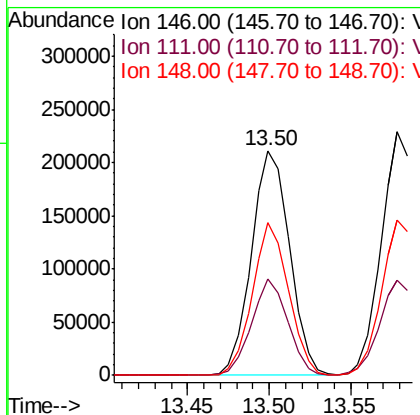
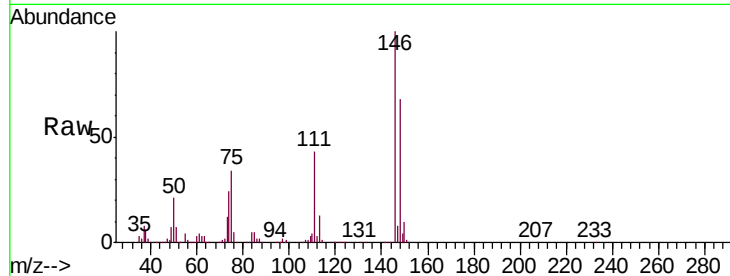




#63
 1,3-Dichlorobenzene
 Concen: 24.910 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW009530.D
 Acq: 28 Mar 2019 10:37

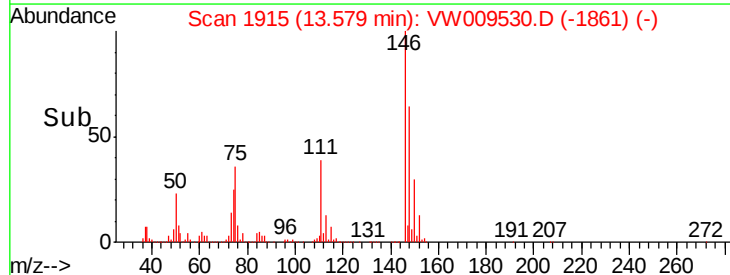
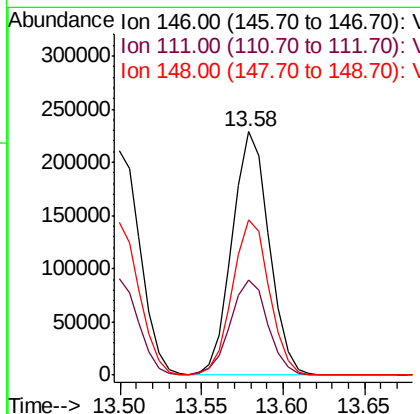
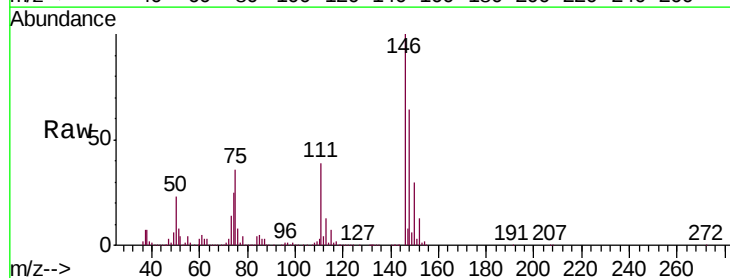
Instrument :
 MSVOA_W
 ClientSampled :
 BFB12

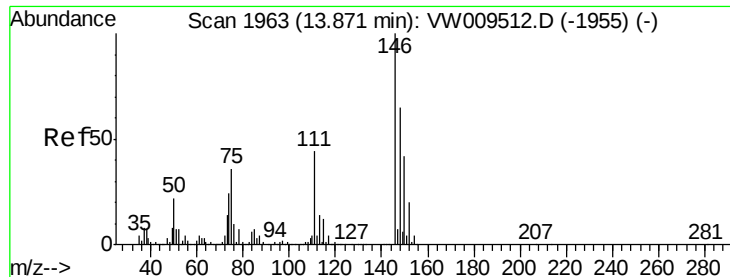
Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.7	26.9	49.9
148	67.7	45.1	83.7



#64
 1,4-Dichlorobenzene
 Concen: 25.364 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW009530.D
 Acq: 28 Mar 2019 10:37

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.0	27.8	51.6
148	63.6	46.3	86.1

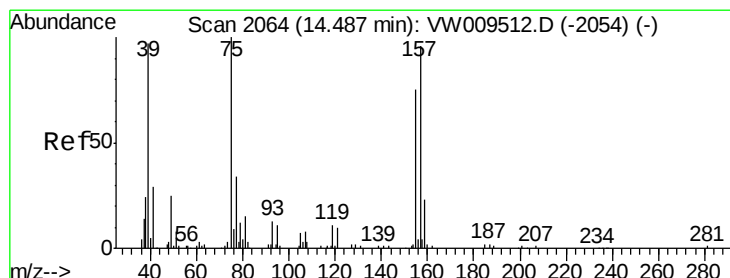
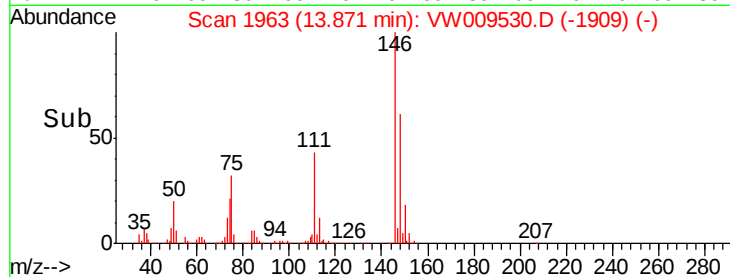
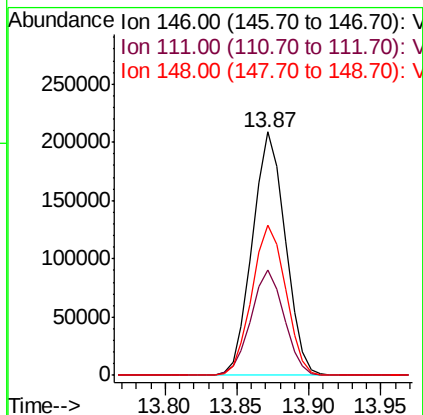
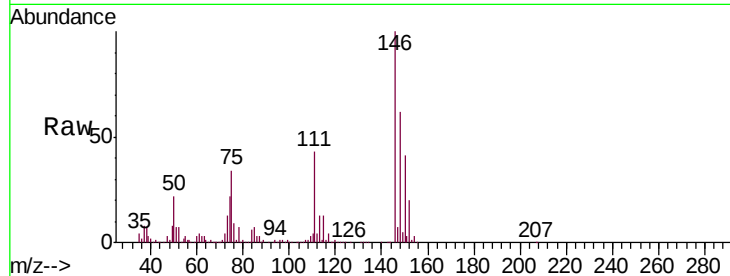




#65
 1,2-Dichlorobenzene
 Concen: 25.171 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW009530.D
 Acq: 28 Mar 2019 10:37

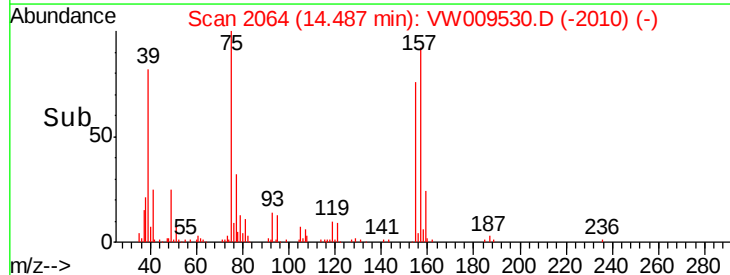
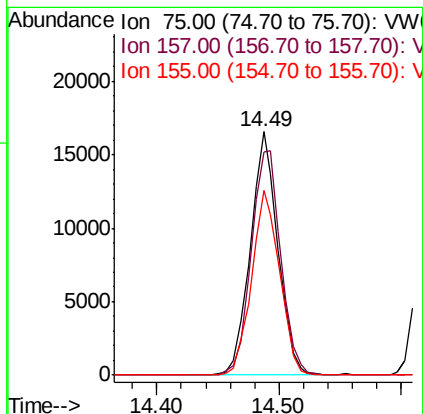
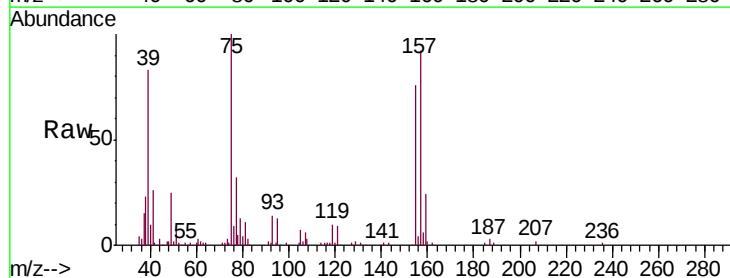
Instrument :
 MSVOA_W
 ClientSampleId :
 BFB12

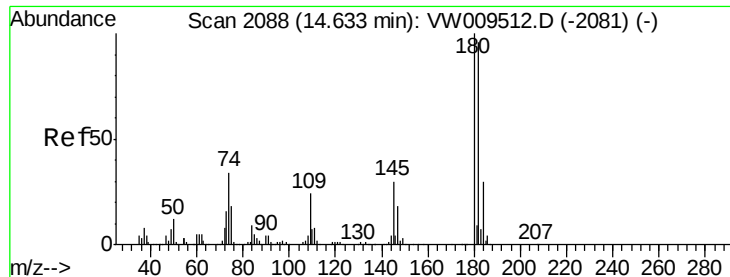
Tgt Ion: 146 Resp: 330673
 Ion Ratio Lower Upper
 146 100
 111 43.2 33.5 50.3
 148 61.5 50.2 75.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 20.154 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW009530.D
 Acq: 28 Mar 2019 10:37

Tgt Ion: 75 Resp: 25948
 Ion Ratio Lower Upper
 75 100
 157 91.5 89.0 133.4
 155 75.8 64.2 96.2

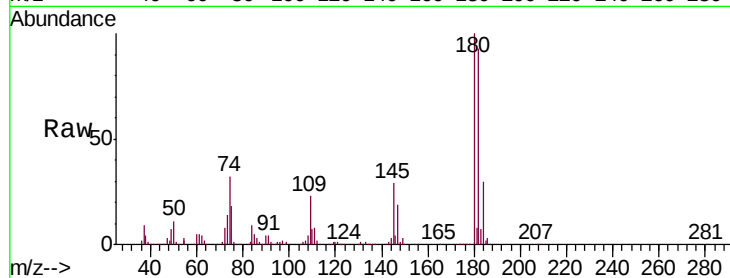




#67
 1,3,5-Trichlorobenzene
 Concen: 26.321 ug/L
 RT: 14.63 min Scan# 2088
 Delta R.T. 0.00 min
 Lab File: VW009530.D
 Acq: 28 Mar 2019 10:37

Instrument :
 MSVOA_W
 ClientSampled :
 BFB12

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.4	76.1	114.1
184	30.2	23.8	35.6
145	29.3	23.4	35.2



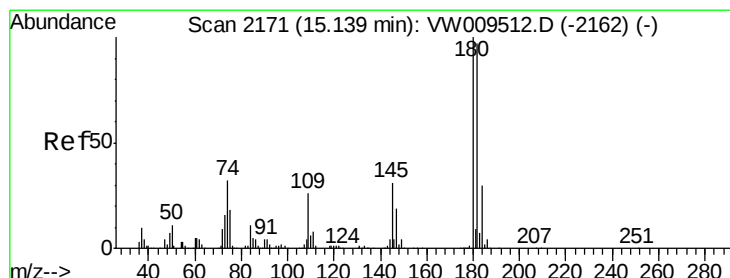
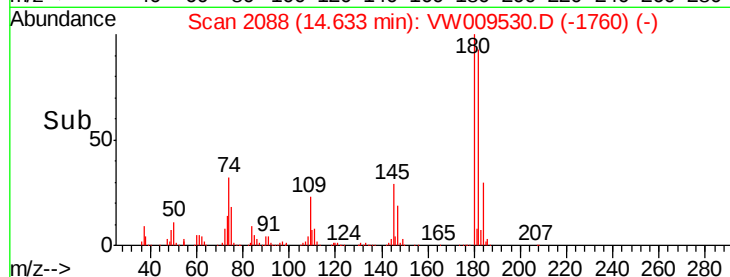
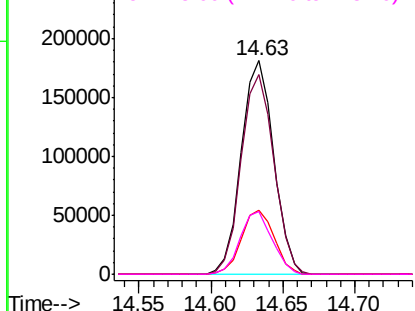
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

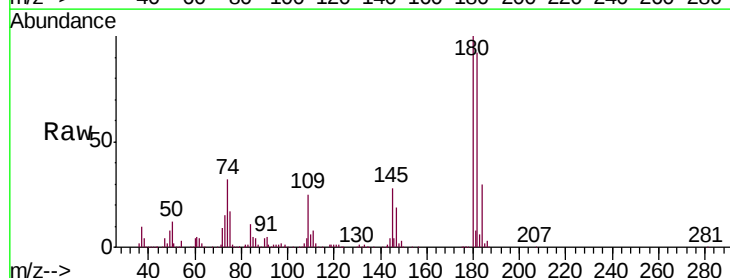
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 25.057 ug/L
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW009530.D
 Acq: 28 Mar 2019 10:37

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.0	75.5	113.3
145	29.9	24.1	36.1

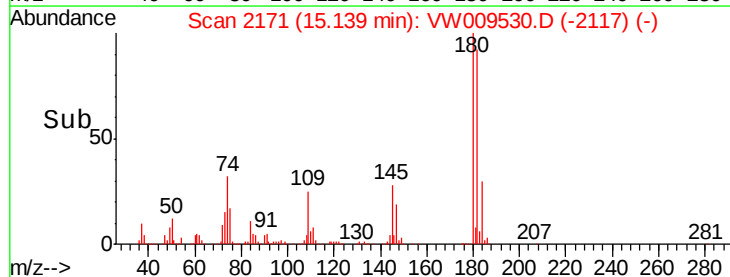
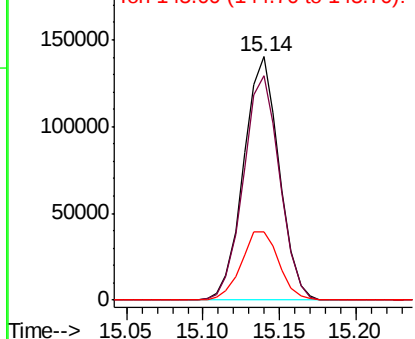


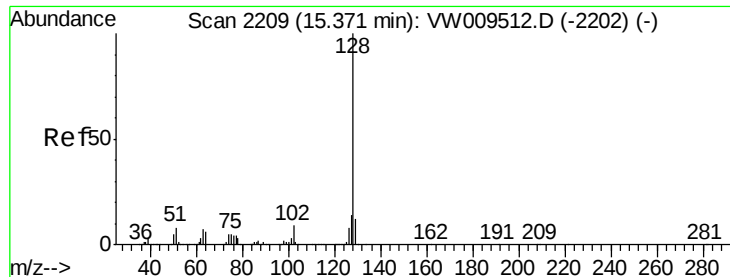
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 22.024 ug/L

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW009530.D

Acq: 28 Mar 2019 10:37

Instrument :

MSVOA_W

ClientSampleId :

BFB12

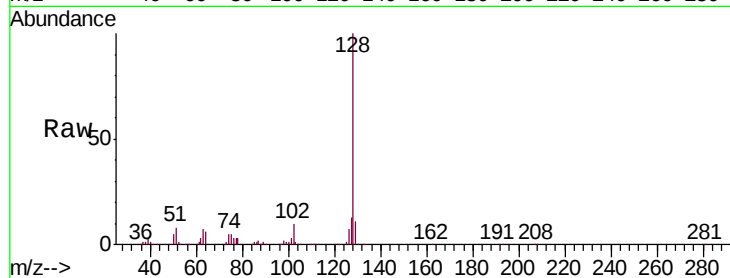
Tgt Ion:128 Resp: 412104

Ion Ratio Lower Upper

128 100

129 10.7 8.7 13.1

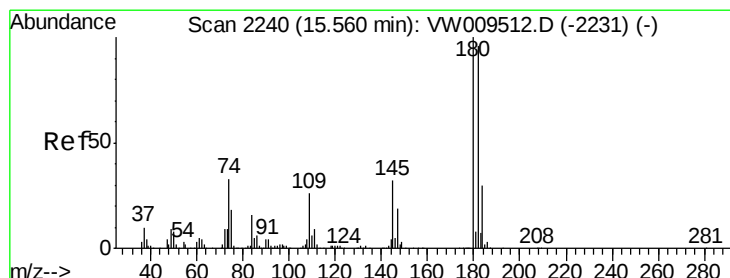
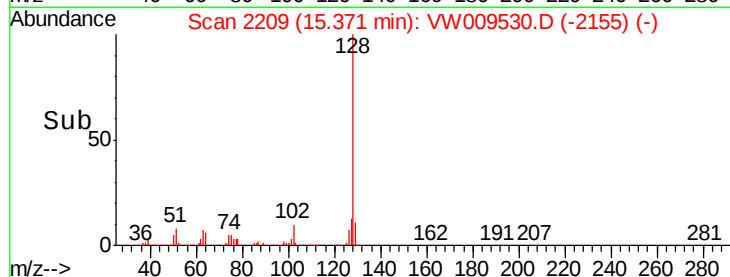
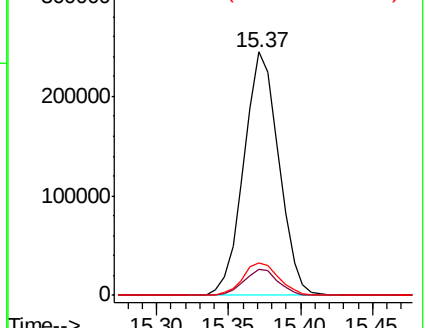
127 13.5 11.1 16.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 24.909 ug/L

RT: 15.56 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VW009530.D

Acq: 28 Mar 2019 10:37

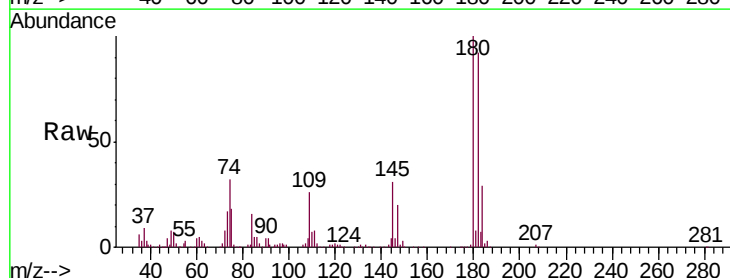
Tgt Ion:180 Resp: 210564

Ion Ratio Lower Upper

180 100

182 93.8 77.2 115.8

145 32.5 25.8 38.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

