

Data File : VW014362.D
Acq On : 16 Dec 2019 11:11
Operator : SY/VA
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
BFB09

Quant Time: Dec 17 07:26:15 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM120519S.M
Quant Title : VOC Analysis
QLast Update : Mon Dec 16 16:53:53 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	1263699	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	1112309	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	535168	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	402674	21.04	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	84.16%
7) Chloroethane-d5	2.89	69	351500	24.70	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	98.80%
10) 1,1-Dichloroethene-d2	4.02	63	815323	24.12	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	96.48%
20) 2-Butanone-d5	7.07	46	247260	49.59	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	99.18%
24) Chloroform-d	7.65	84	810303	25.18	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	100.72%
26) 1,2-Dichloroethane-d4	8.30	65	413930	24.54	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	98.16%
29) Benzene-d6	8.27	84	1661277	25.48	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	101.92%
33) 1,2-Dichloropropane-d6	9.27	67	506634	25.26	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	101.04%
37) Toluene-d8	10.32	98	1487470	25.23	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	100.92%
38) trans-1,3-Dichloropropene-	10.57	79	206335	24.52	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	98.08%
39) 2-Hexanone-d5	10.92	63	191347	47.98	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	95.96%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	388178	23.75	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	95.00%
61) 1,2-Dichlorobenzene-d4	13.85	152	486823	23.81	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	95.24%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	296829	24.696	ug/L	99
3) Chloromethane	2.21	50	297609	24.631	ug/L	97
5) Vinyl chloride	2.36	62	445735	24.915	ug/L	94
6) Bromomethane	2.78	94	264308	23.951	ug/L	99
8) Chloroethane	2.92	64	259849	25.424	ug/L	95
9) Trichlorofluoromethane	3.26	101	279214	31.526	ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	4.07	101	406701	24.400	ug/L	94
12) 1,1-Dichloroethene	4.04	96	401513	23.793	ug/L	80
13) Acetone	4.12	43	224770	46.751	ug/L	99
14) Carbon disulfide	4.39	76	1200415	23.194	ug/L	99
15) Methyl Acetate	4.67	43	183549	20.184	ug/L	100
16) Methylene chloride	4.92	84	433787	22.392	ug/L	96
17) Methyl tert-butyl Ether	5.42	73	493100	22.158	ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	415910	23.014	ug/L	92
19) 1,1-Dichloroethane	6.21	63	761111	23.441	ug/L	99
21) 2-Butanone	7.17	43	281226	43.568	ug/L	96
22) cis-1,2-Dichloroethene	7.17	96	441500	22.960	ug/L	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

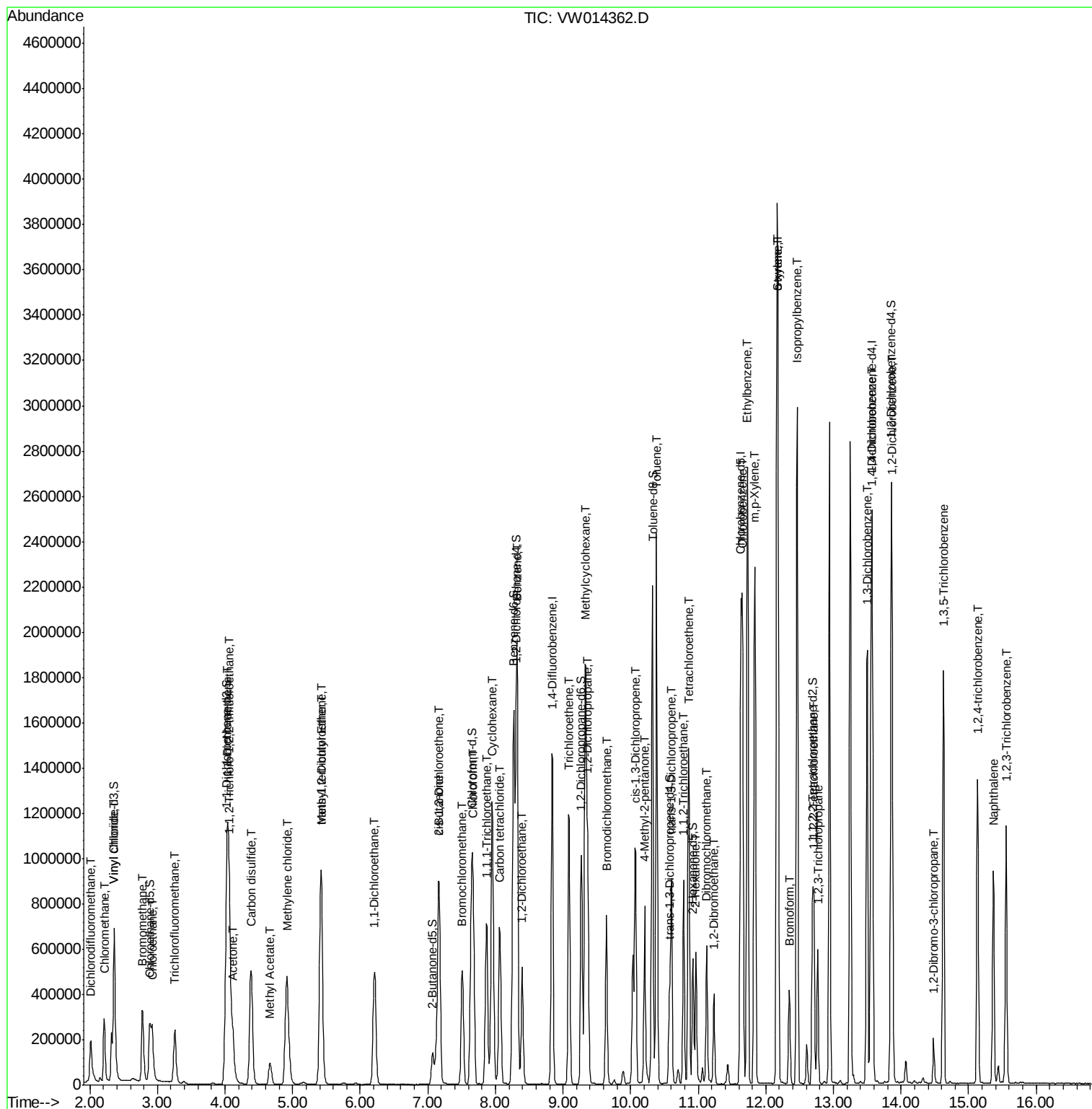
23) Bromochloromethane	7.51	128	182722	20.657	ug/L #	79
25) Chloroform	7.67	83	728479	23.089	ug/L	100
27) 1,2-Dichloroethane	8.40	62	454370	21.992	ug/L	97
30) Cyclohexane	7.95	56	741204	26.697	ug/L	96
31) 1,1,1-Trichloroethane	7.87	97	591739	26.490	ug/L	98
32) Carbon tetrachloride	8.06	117	550766	25.985	ug/L	99
34) Benzene	8.32	78	1710883	24.292	ug/L	100
35) Trichloroethene	9.09	95	432690	24.012	ug/L	95
36) Methylcyclohexane	9.33	83	782701	25.848	ug/L	96
40) 1,2-Dichloropropane	9.37	63	424917	23.485	ug/L	99
41) Bromodichloromethane	9.64	83	511149	23.246	ug/L	98
42) cis-1,3-Dichloropropene	10.07	75	647684	23.903	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	520629	43.636	ug/L	97
44) Toluene	10.38	91	1793638	24.292	ug/L	99
45) trans-1,3-Dichloropropene	10.60	75	504811	23.015	ug/L	97
46) 1,1,2-Trichloroethane	10.79	97	290686	21.440	ug/L	97
47) Tetrachloroethene	10.86	164	355730	23.685	ug/L	97
49) 2-Hexanone	10.96	43	378874	44.603	ug/L	96
50) Dibromochloromethane	11.13	129	338610	22.252	ug/L	99
51) 1,2-Dibromoethane	11.23	107	270148	21.035	ug/L	95
52) Chlorobenzene	11.65	112	1093566	22.916	ug/L	93
53) Ethylbenzene	11.73	91	1984971	24.775	ug/L	99
54) m,p-Xylene	11.84	106	748032	24.271	ug/L	95
55) o-xylene	12.16	106	699480	23.928	ug/L	98
56) Styrene	12.18	104	1202284	24.041	ug/L	98
57) Isopropylbenzene	12.46	105	1905283	25.105	ug/L	99
58) 1,1,2,2-Tetrachloroethane	12.71	83	347925	20.675	ug/L	96
59) 1,2,3-Trichloropropane	12.77	75	257402	20.585	ug/L	98
62) Bromoform	12.35	173	193065	21.256	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	820728	22.817	ug/L	97
64) 1,4-Dichlorobenzene	13.58	146	818823	22.405	ug/L	96
65) 1,2-Dichlorobenzene	13.87	146	737289	22.041	ug/L	96
66) 1,2-Dibromo-3-chloropropan	14.48	75	50565	19.596	ug/L #	84
67) 1,3,5-Trichlorobenzene	14.63	180	595974	23.029	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	458085	22.706	ug/L	99
69) Naphthalene	15.36	128	808907	21.321	ug/L	99
70) 1,2,3-Trichlorobenzene	15.55	180	411239	21.736	ug/L	99

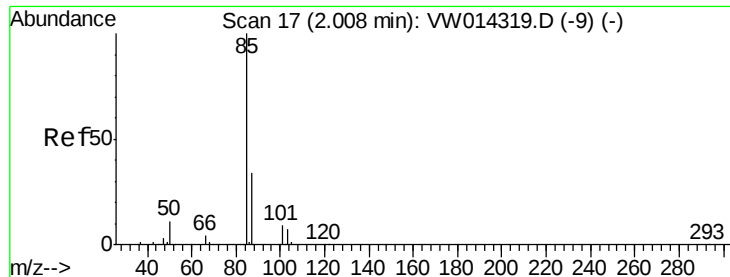
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 24.696 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW014362.D

Acq: 16 Dec 2019 11:11

Instrument :

MSVOA_W

ClientSampleId :

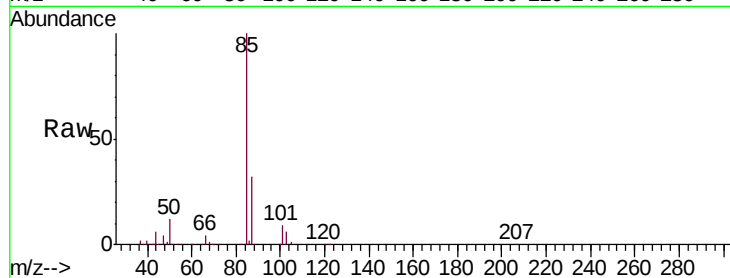
BFB09

Tgt Ion: 85 Resp: 296829

Ion Ratio Lower Upper

85 100

87 32.4 22.1 41.1



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW

2.01

100000

80000

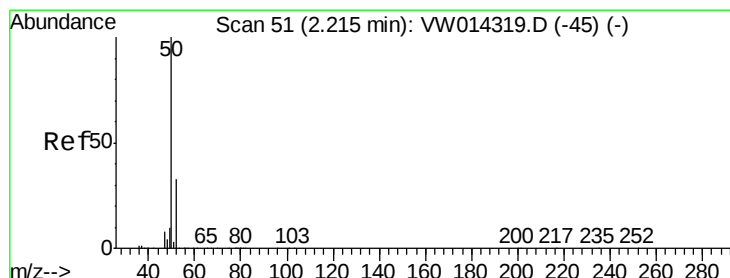
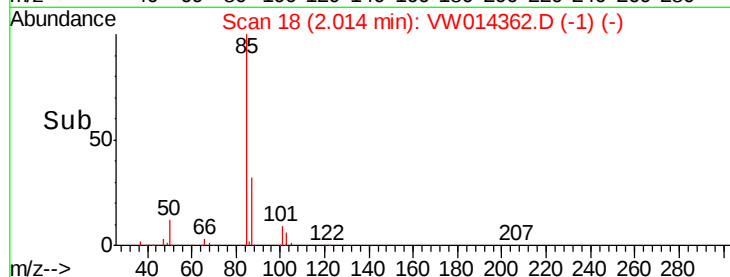
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 24.631 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.01 min

Lab File: VW014362.D

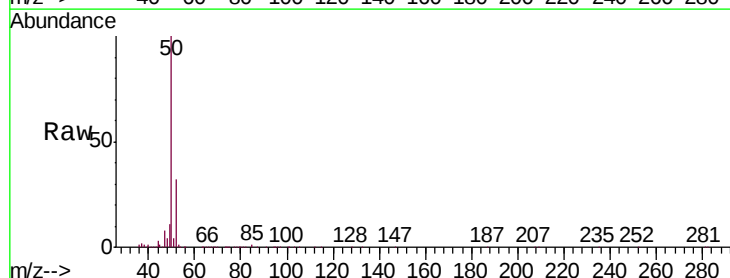
Acq: 16 Dec 2019 11:11

Tgt Ion: 50 Resp: 297609

Ion Ratio Lower Upper

50 100

52 32.3 23.8 44.2



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW

2.21

200000

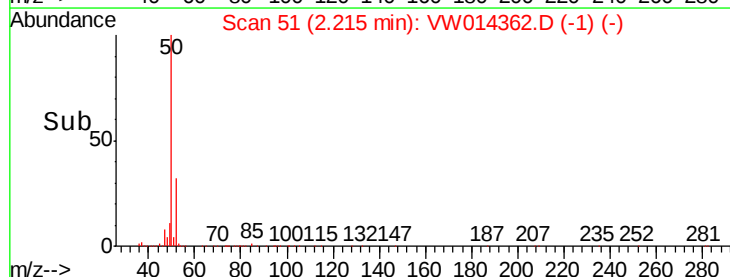
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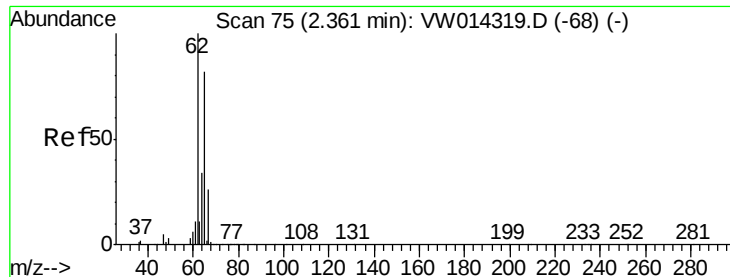
100000

50000

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Time-->





#5

Vinyl chloride

Concen: 24.915 ug/L

RT: 2.36 min Scan# 75

Delta R.T. 0.01 min

Lab File: VW014362.D

Acq: 16 Dec 2019 11:11

Instrument :

MSVOA_W

ClientSampleId :

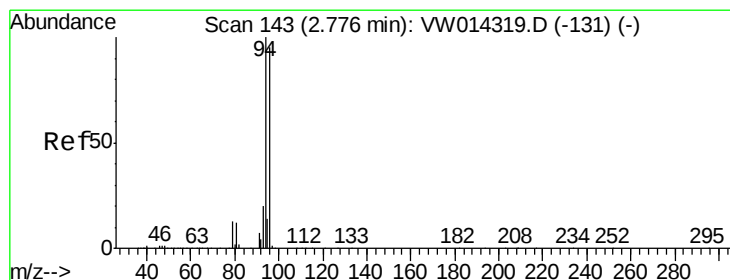
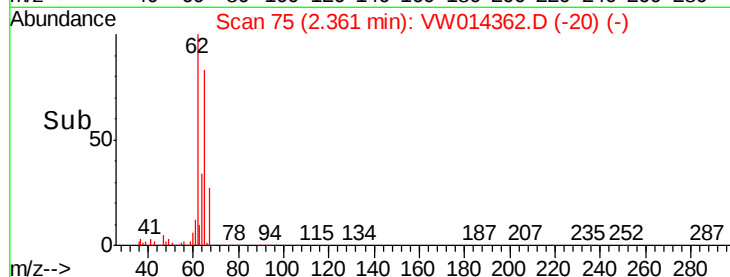
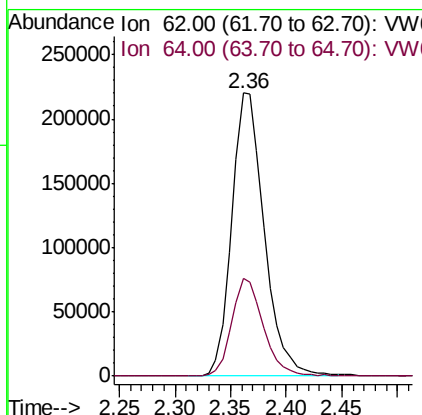
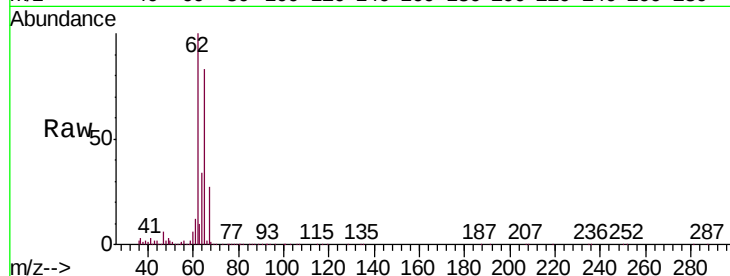
BFB09

Tgt Ion: 62 Resp: 445735

Ion Ratio Lower Upper

62 100

64 34.3 21.8 40.4



#6

Bromomethane

Concen: 23.951 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.01 min

Lab File: VW014362.D

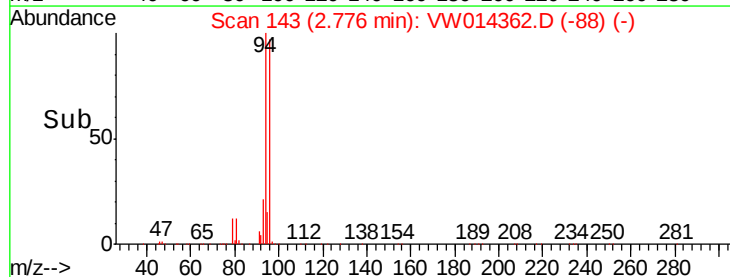
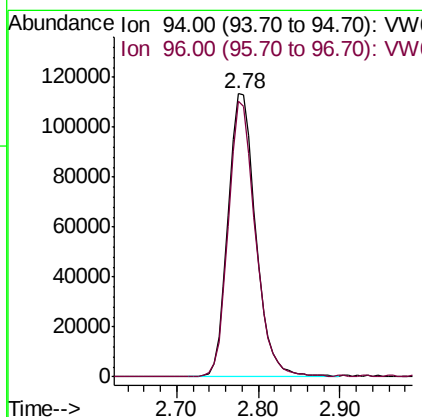
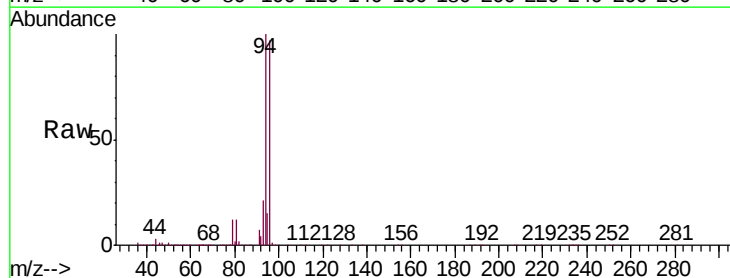
Acq: 16 Dec 2019 11:11

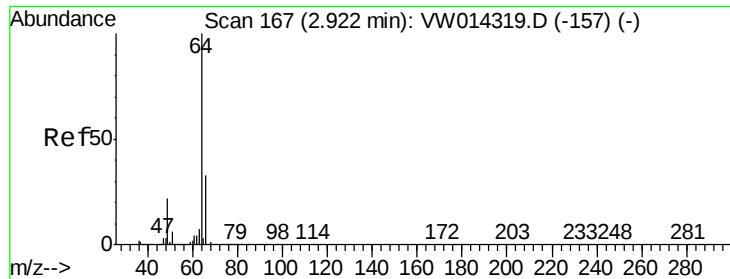
Tgt Ion: 94 Resp: 264308

Ion Ratio Lower Upper

94 100

96 95.0 9.4 178.8





#8

Chloroethane

Concen: 25.424 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.01 min

Lab File: VW014362.D

Acq: 16 Dec 2019 11:11

Instrument :

MSVOA_W

ClientSampleId :

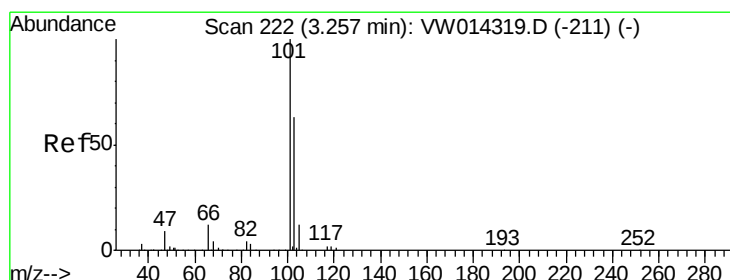
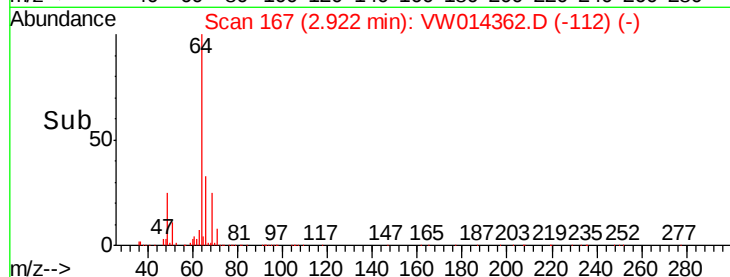
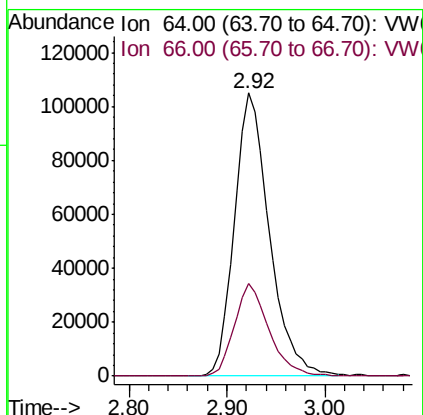
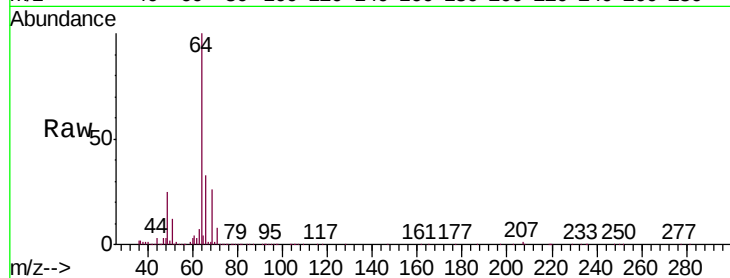
BFB09

Tgt Ion: 64 Resp: 259849

Ion Ratio Lower Upper

64 100

66 32.9 21.2 39.4



#9

Trichlorofluoromethane

Concen: 31.526 ug/L

RT: 3.26 min Scan# 222

Delta R.T. 0.01 min

Lab File: VW014362.D

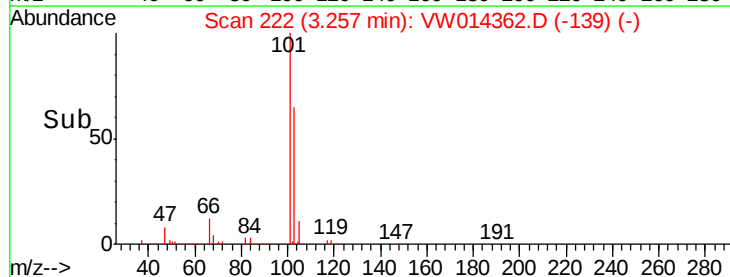
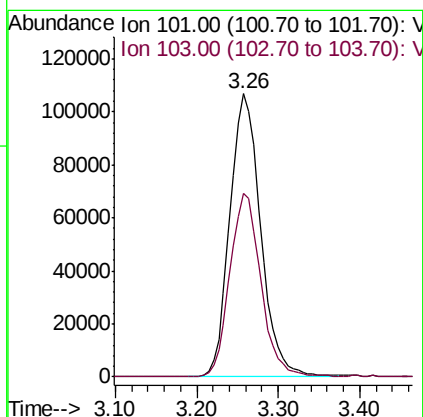
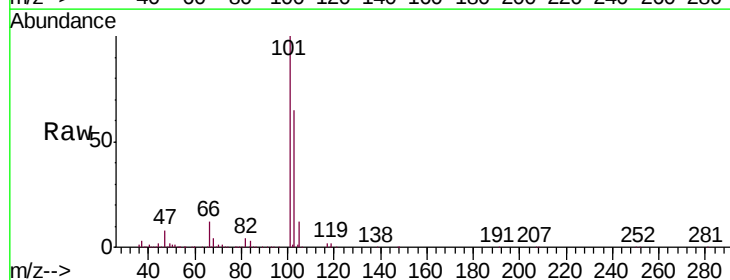
Acq: 16 Dec 2019 11:11

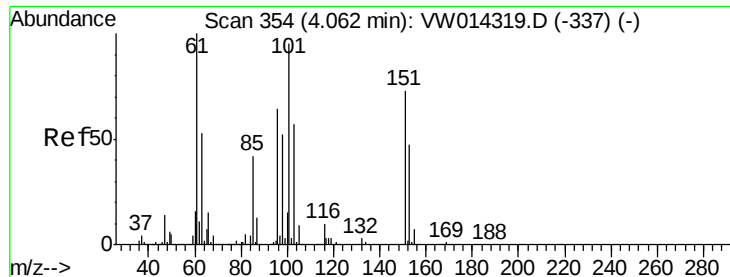
Tgt Ion: 101 Resp: 279214

Ion Ratio Lower Upper

101 100

103 64.4 45.4 84.2





#11

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

Concen: 24.400 ug/L

RT: 4.07 min Scan# 355

Delta R.T. 0.01 min

Lab File: VW014362.D

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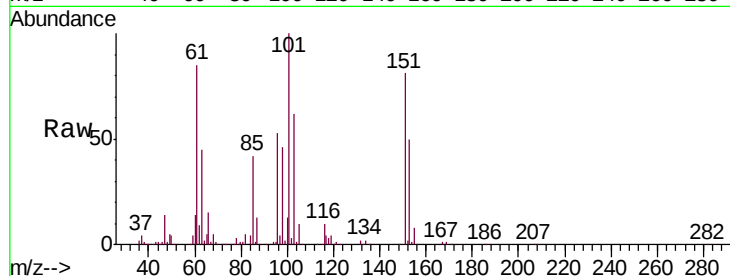
Tgt Ion:101 Resp: 406701

Ion Ratio Lower Upper

101 100

85 42.1 31.4 47.2

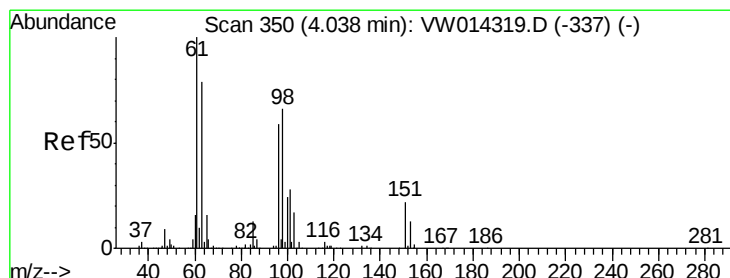
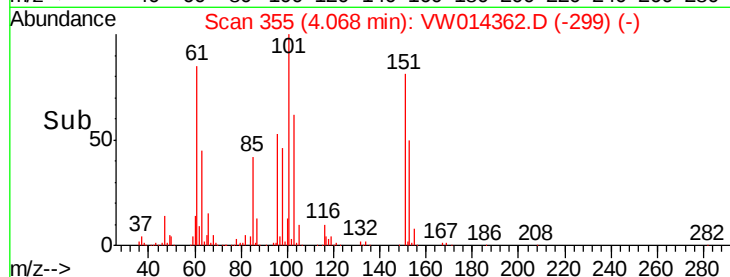
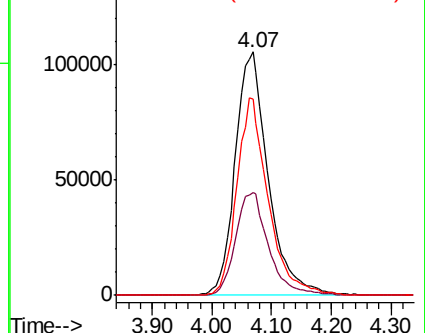
151 77.0 66.9 100.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 23.793 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.01 min

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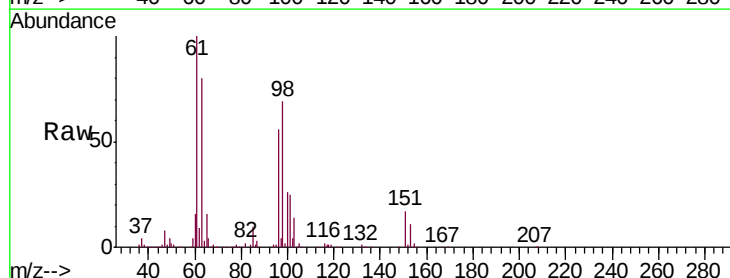
Tgt Ion: 96 Resp: 401513

Ion Ratio Lower Upper

96 100

61 177.3 109.8 204.0

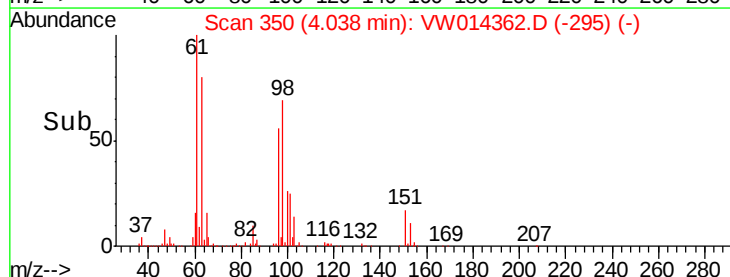
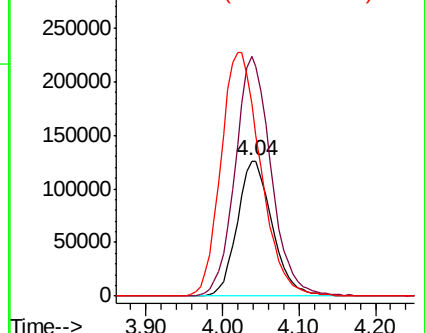
63 142.3 80.7 149.9

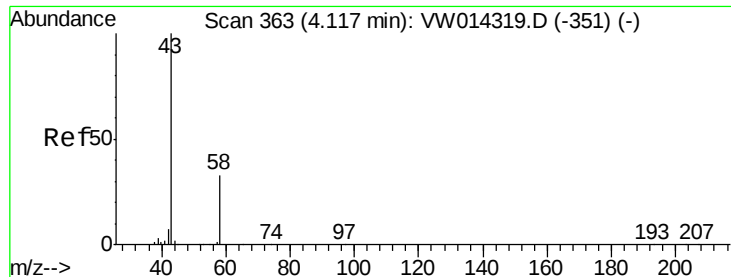


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 46.751 ug/L

RT: 4.12 min Scan# 363

Delta R.T. 0.01 min

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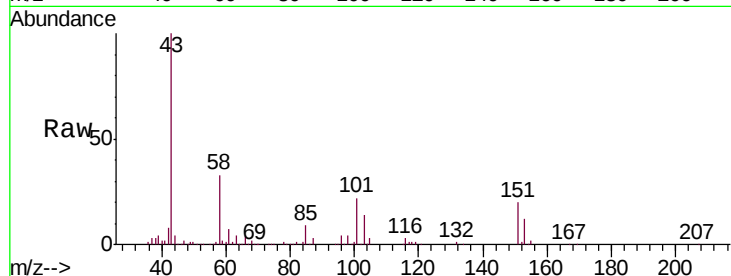
BFB09

Tgt Ion: 43 Resp: 224770

Ion Ratio Lower Upper

43 100

58 33.1 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

80000

60000

40000

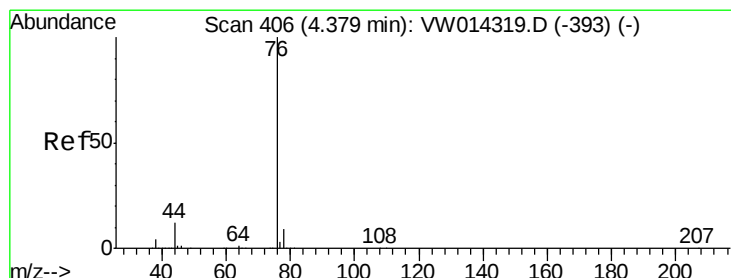
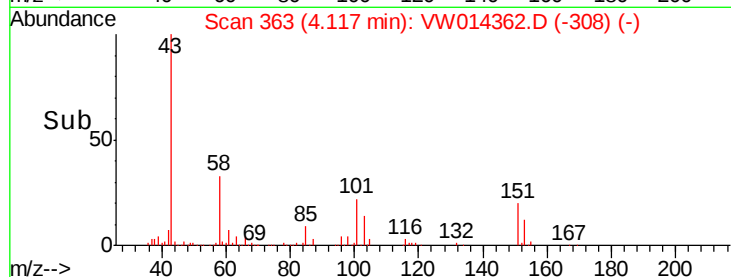
20000

0

4.12

4.00 4.10 4.20 4.30

Time-->



#14

Carbon disulfide

Concen: 23.194 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.01 min

Lab File: VW014362.D

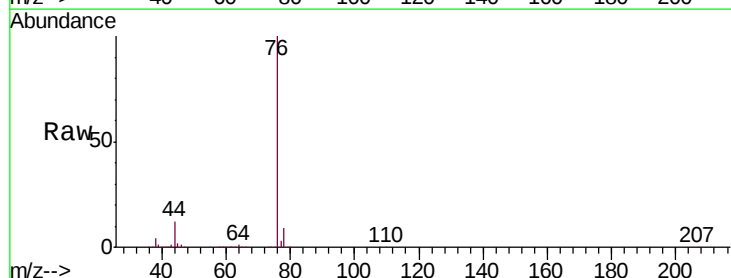
Acq: 16 Dec 2019 11:11

Tgt Ion: 76 Resp: 1200415

Ion Ratio Lower Upper

76 100

78 9.3 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

400000

300000

200000

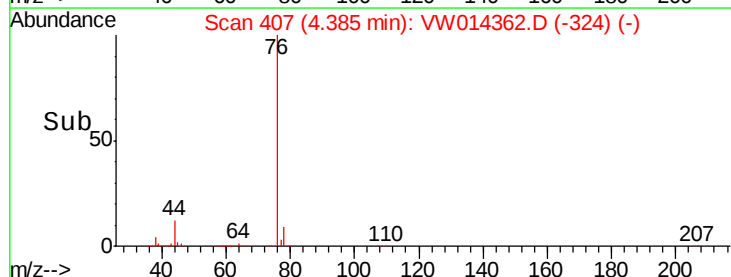
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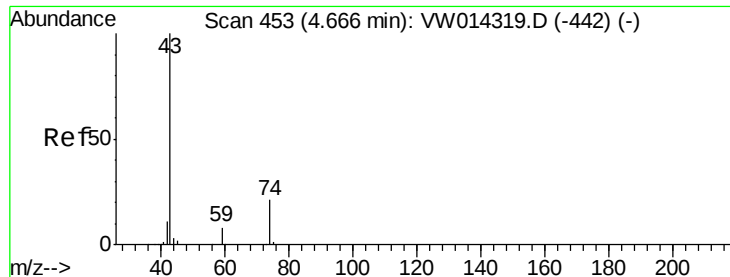
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4.39

4.20 4.30 4.40 4.50

Time-->

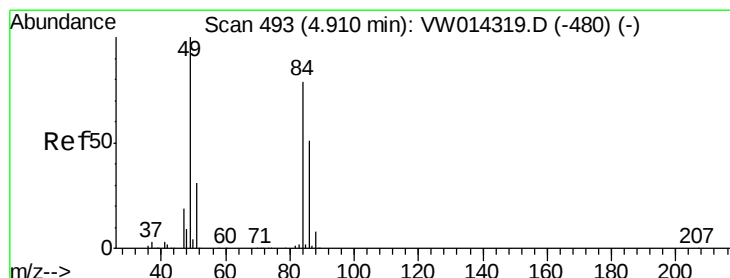
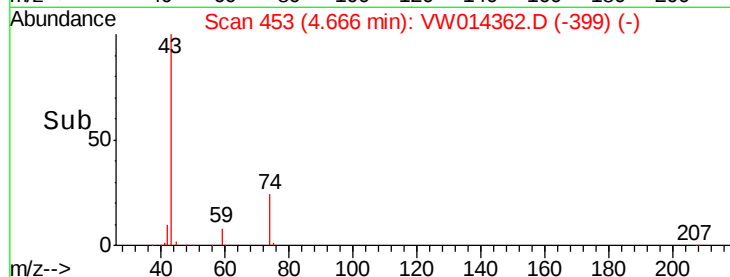
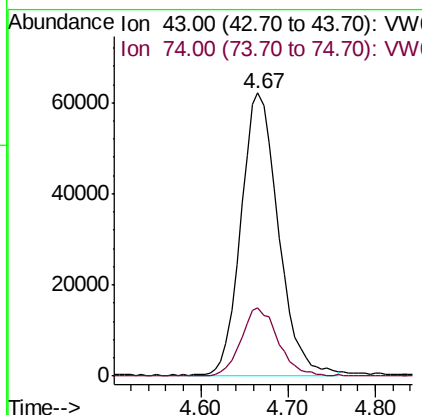
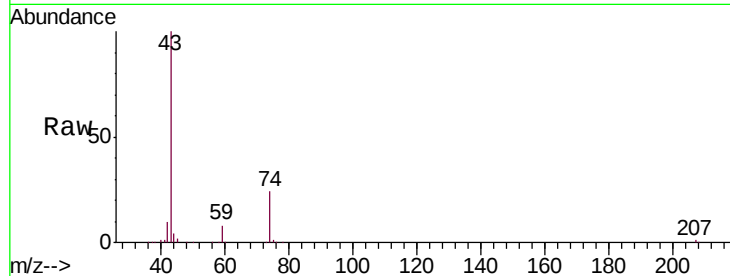




#15
Methyl Acetate
Concen: 20.184 ug/L
RT: 4.67 min Scan# 453
Delta R.T. 0.00 min
Lab File: VW014362.D
Acq: 16 Dec 2019 11:11

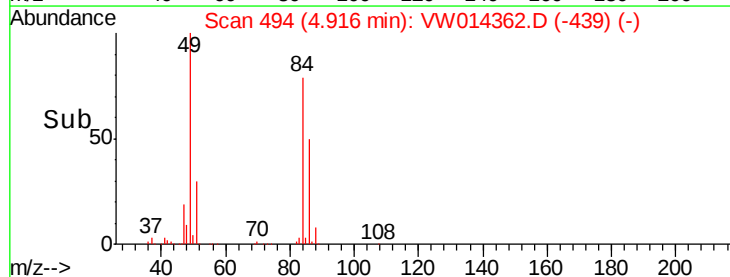
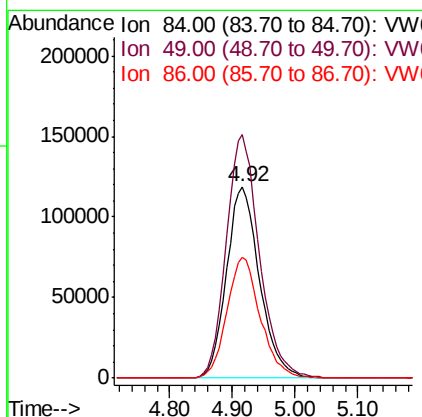
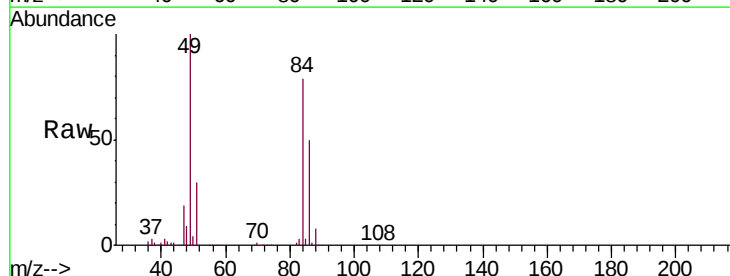
Instrument :
MSVOA_W
ClientSampled :
BFB09

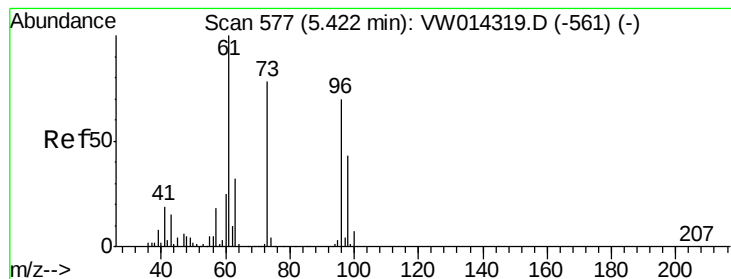
Tgt Ion: 43 Resp: 183549
Ion Ratio Lower Upper
43 100
74 24.0 19.3 28.9



#16
Methylene chloride
Concen: 22.392 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW014362.D
Acq: 16 Dec 2019 11:11

Tgt Ion: 84 Resp: 433787
Ion Ratio Lower Upper
84 100
49 127.1 84.2 156.4
86 63.4 43.7 81.1





#17

Methyl tert-butyl Ether

Concen: 22.158 ug/L

RT: 5.42 min Scan# 577

Delta R.T. 0.00 min

Lab File: VW014362.D

Acq: 16 Dec 2019 11:11

Instrument :

MSVOA_W

ClientSampleId :

BFB09

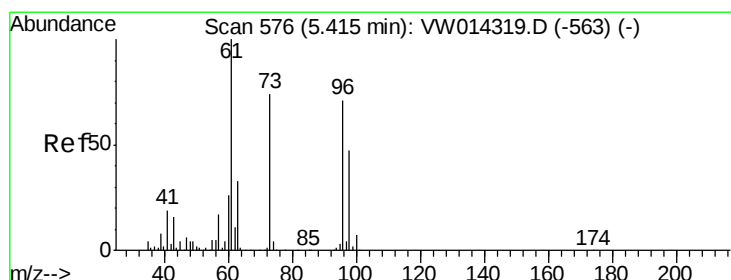
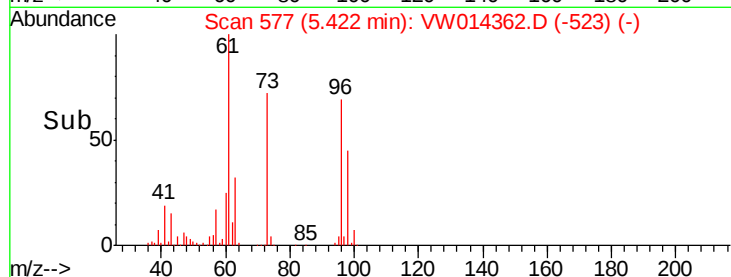
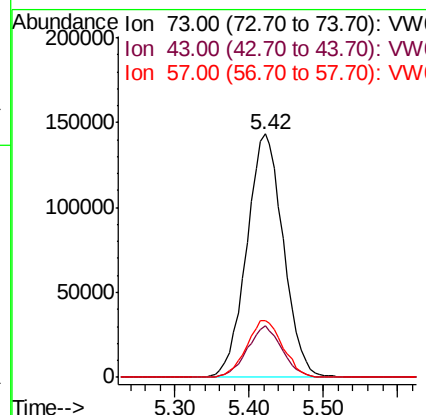
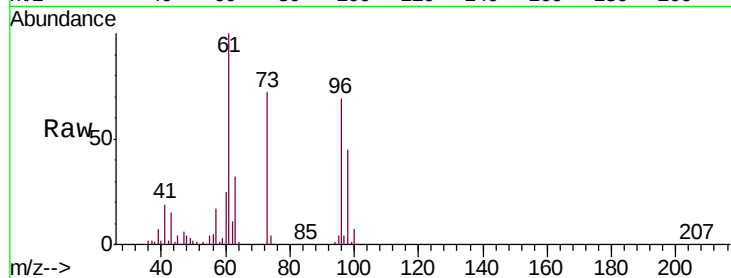
Tgt Ion: 73 Resp: 493100

Ion Ratio Lower Upper

73 100

43 20.0 15.5 23.3

57 23.3 18.2 27.4



#18

trans-1,2-Dichloroethene

Concen: 23.014 ug/L

RT: 5.42 min Scan# 576

Delta R.T. 0.00 min

Lab File: VW014362.D

Acq: 16 Dec 2019 11:11

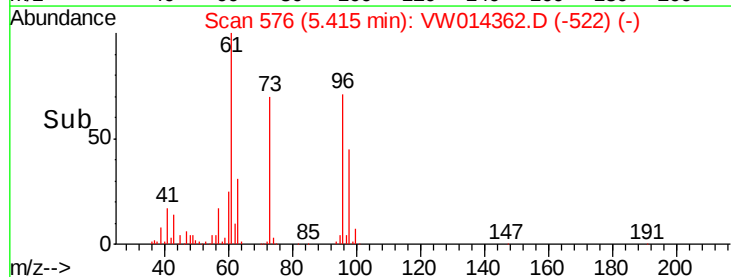
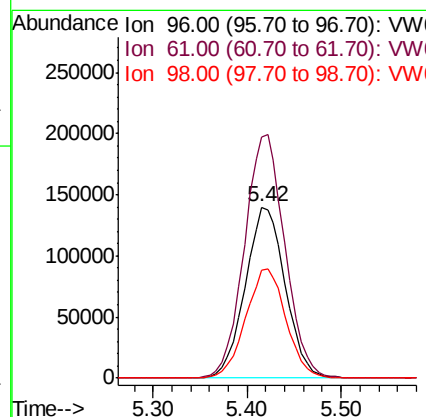
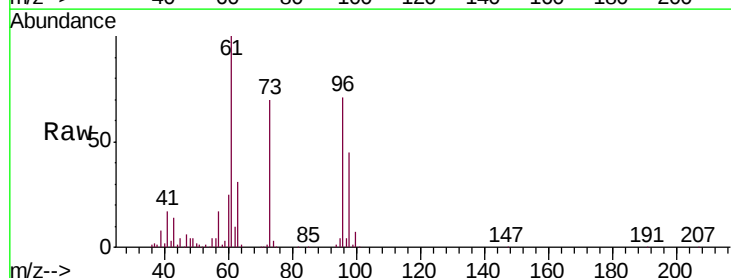
Tgt Ion: 96 Resp: 415910

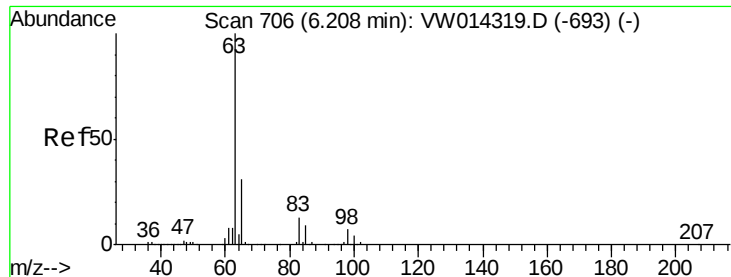
Ion Ratio Lower Upper

96 100

61 141.0 90.6 168.2

98 63.1 42.9 79.7

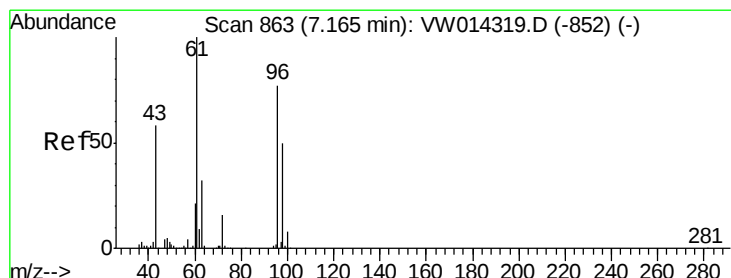
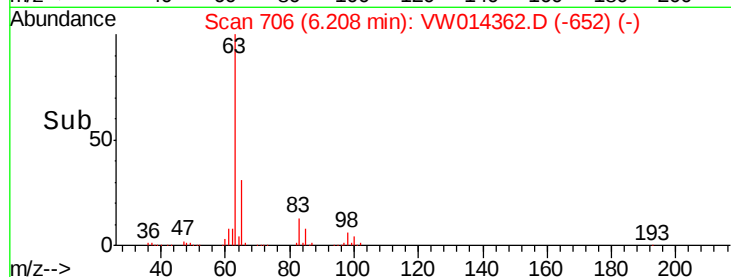
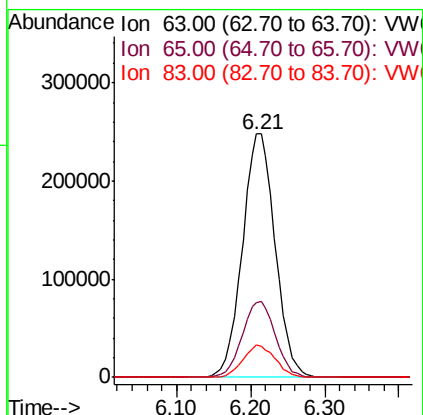
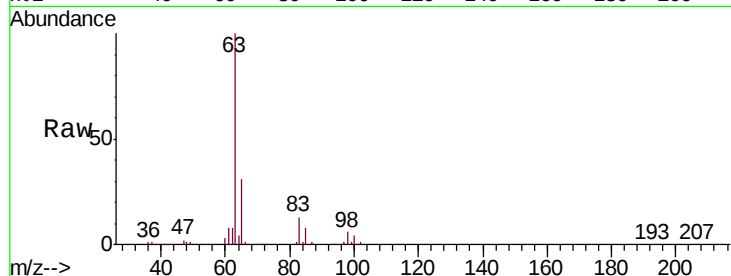




#19
 1,1-Dichloroethane
 Concen: 23.441 ug/L
 RT: 6.21 min Scan# 706
 Delta R.T. 0.00 min
 Lab File: VW014362.D
 Acq: 16 Dec 2019 11:11

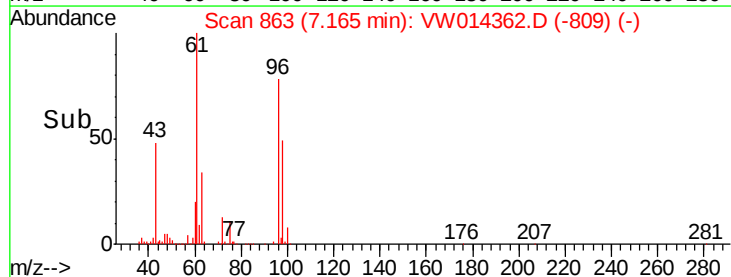
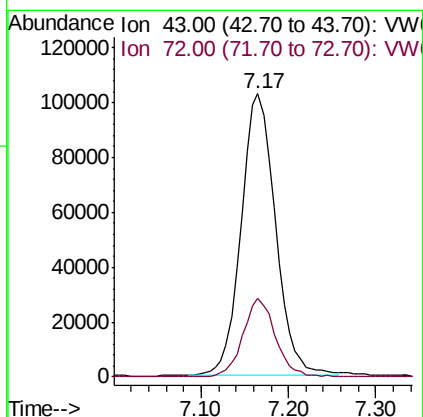
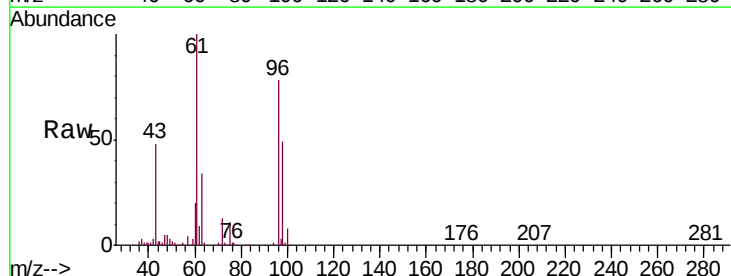
Instrument :
 MSVOA_W
 ClientSampleId :
 BFB09

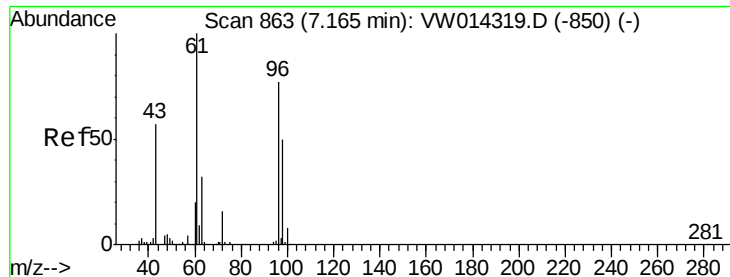
Tgt Ion	Ratio	Lower	Upper
63	100		
65	30.8	22.1	41.1
83	13.1	9.0	16.6



#21
 2-Butanone
 Concen: 43.568 ug/L
 RT: 7.17 min Scan# 863
 Delta R.T. 0.00 min
 Lab File: VW014362.D
 Acq: 16 Dec 2019 11:11

Tgt Ion	Ratio	Lower	Upper
43	100		
72	26.1	14.1	42.2



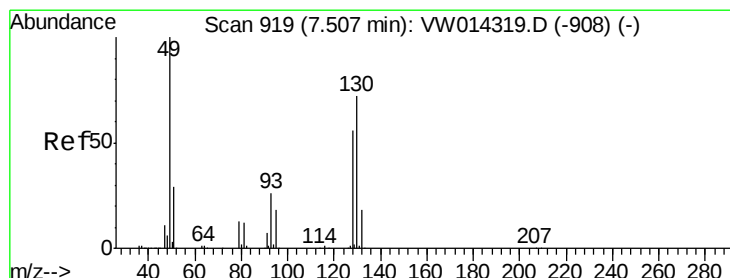
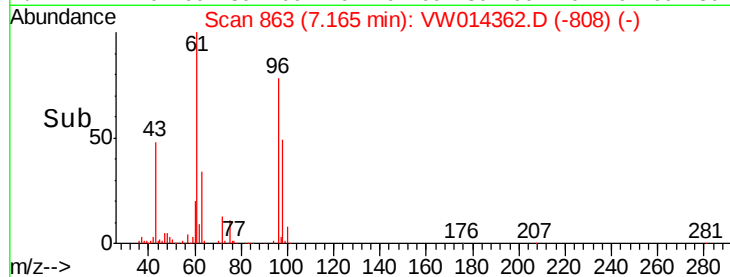
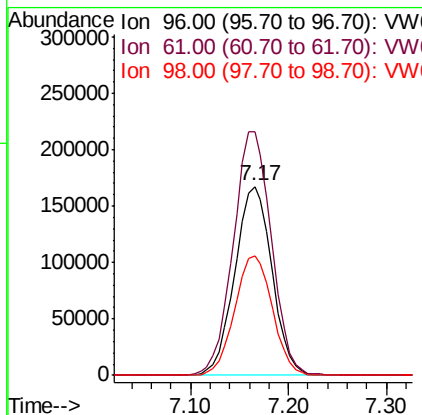
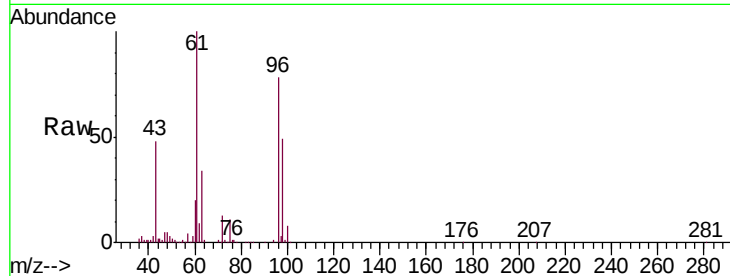


#22

cis-1,2-Dichloroethene
Concen: 22.960 ug/L
RT: 7.17 min Scan# 863
Delta R.T. 0.01 min
Lab File: VW014362.D
Acq: 16 Dec 2019 11:11

Instrument :
MSVOA_W
ClientSampleId :
BFB09

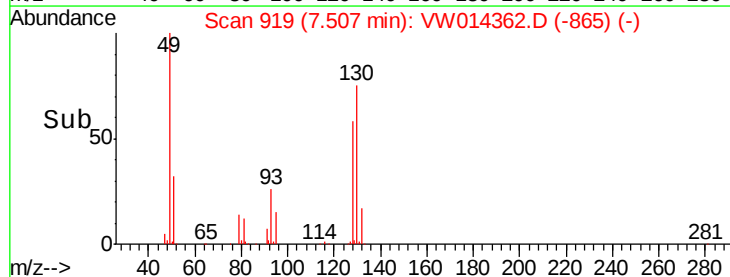
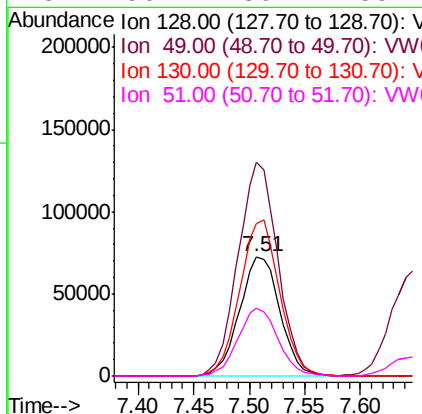
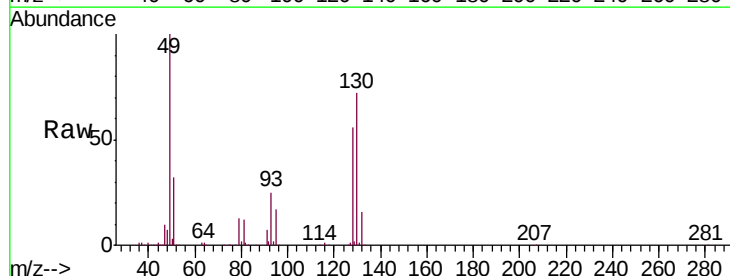
Tgt Ion: 96 Resp: 441500
Ion Ratio Lower Upper
96 100
61 128.8 86.9 161.5
98 63.0 45.5 84.5

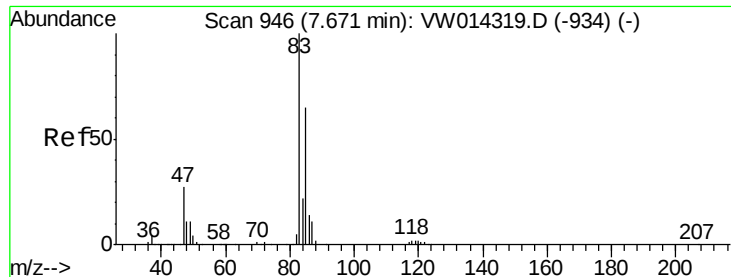


#23

Bromochloromethane
Concen: 20.657 ug/L
RT: 7.51 min Scan# 919
Delta R.T. 0.00 min
Lab File: VW014362.D
Acq: 16 Dec 2019 11:11

Tgt Ion: 128 Resp: 182722
Ion Ratio Lower Upper
128 100
49 178.8 95.1 176.5#
130 128.0 85.0 158.0
51 56.7 36.7 55.1#





#25

Chloroform

Concen: 23.089 ug/L

RT: 7.67 min Scan# 946

Delta R.T. 0.00 min

Lab File: VW014362.D

Acq: 16 Dec 2019 11:11

Instrument :

MSVOA_W

ClientSampleId :

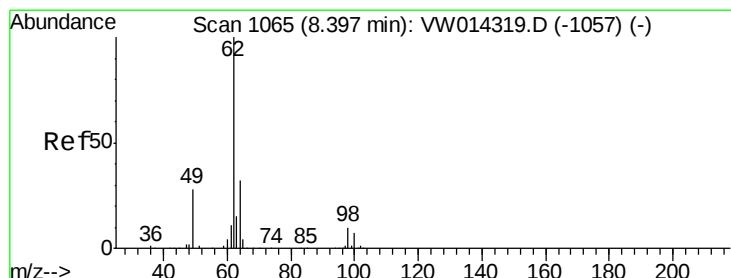
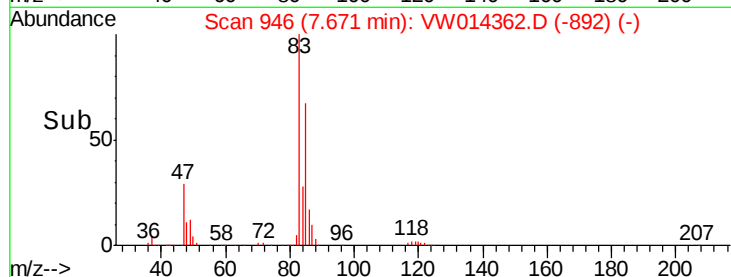
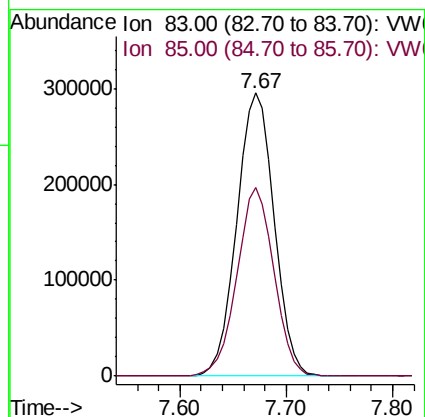
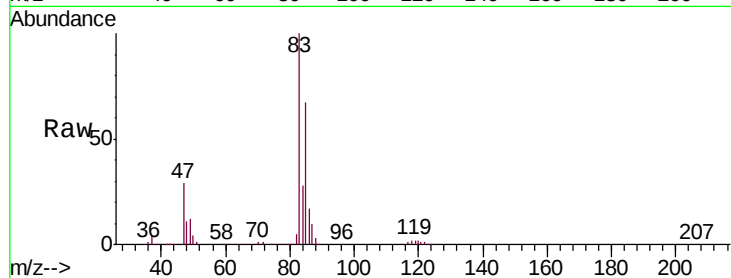
BFB09

Tgt Ion: 83 Resp: 728479

Ion Ratio Lower Upper

83 100

85 66.0 46.1 85.7



#27

1,2-Dichloroethane

Concen: 21.992 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW014362.D

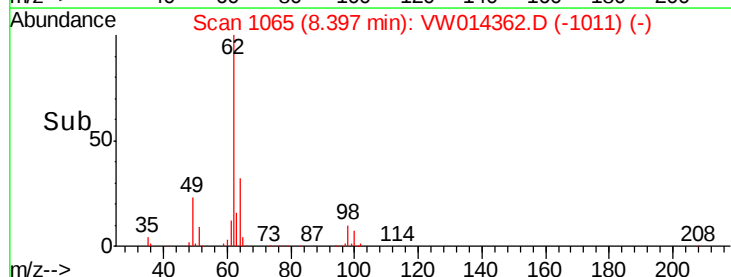
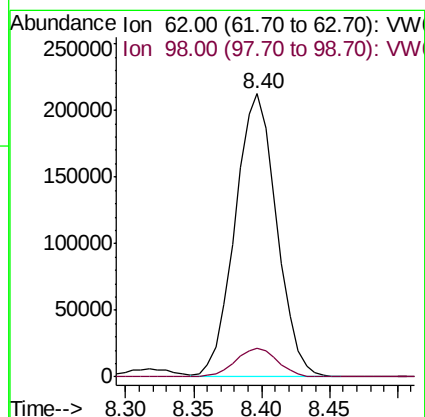
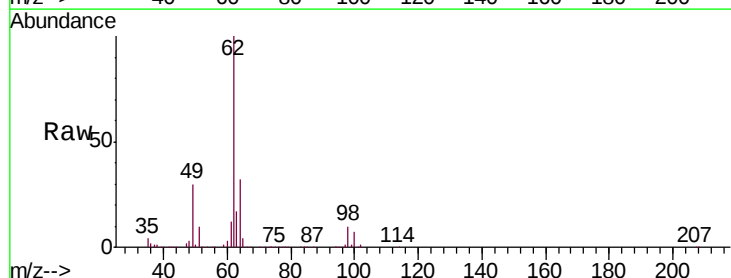
Acq: 16 Dec 2019 11:11

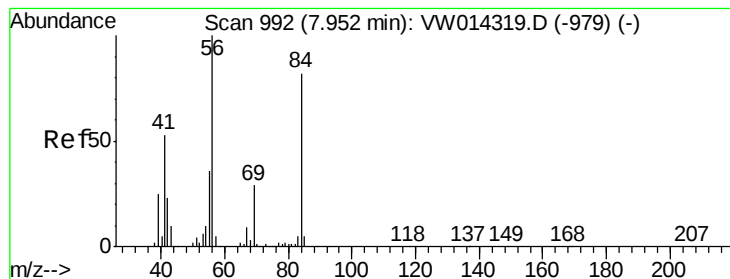
Tgt Ion: 62 Resp: 454370

Ion Ratio Lower Upper

62 100

98 10.3 9.3 13.9

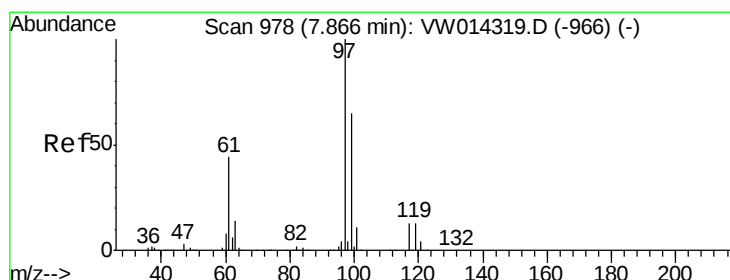
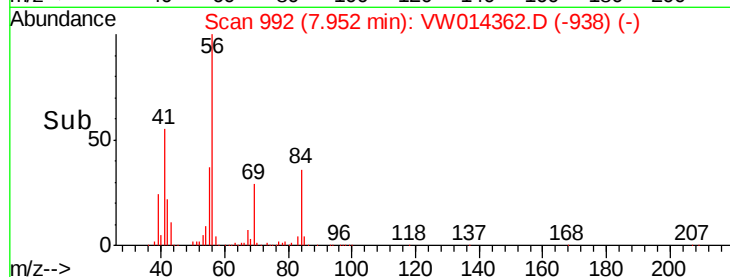
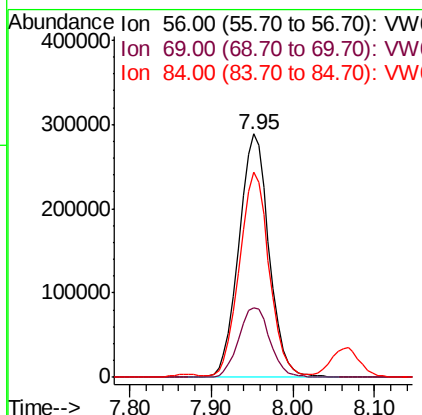
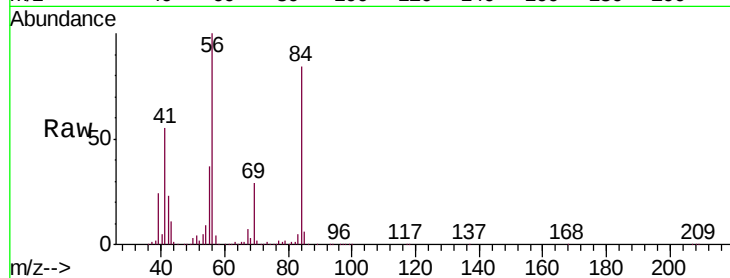




#30
Cyclohexane
Concen: 26.697 ug/L
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW014362.D
Acq: 16 Dec 2019 11:11

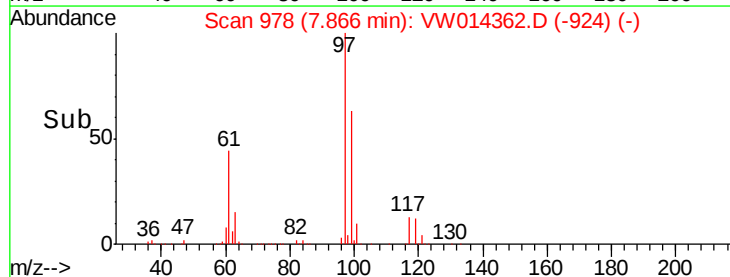
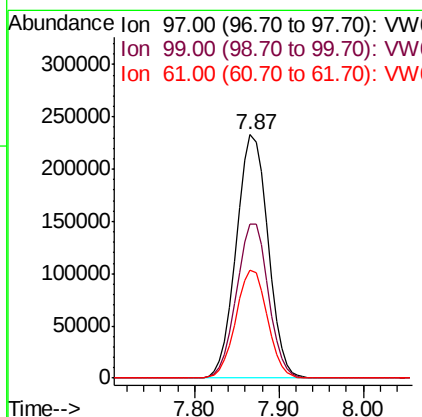
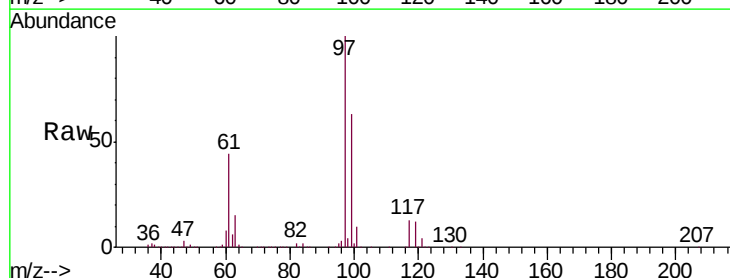
Instrument :
MSVOA_W
ClientSampleId :
BFB09

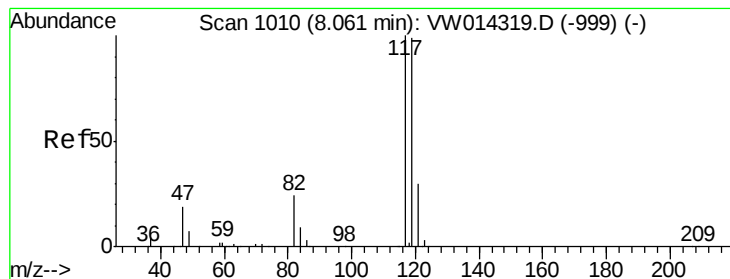
Tgt Ion: 56 Resp: 741204
Ion Ratio Lower Upper
56 100
69 29.8 24.6 37.0
84 83.3 70.2 105.2



#31
1,1,1-Trichloroethane
Concen: 26.490 ug/L
RT: 7.87 min Scan# 978
Delta R.T. 0.00 min
Lab File: VW014362.D
Acq: 16 Dec 2019 11:11

Tgt Ion: 97 Resp: 591739
Ion Ratio Lower Upper
97 100
99 63.7 51.1 76.7
61 44.3 32.8 49.2





#32

Carbon tetrachloride

Concen: 25.985 ug/L

RT: 8.06 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VW014362.D

Acq: 16 Dec 2019 11:11

Instrument :

MSVOA_W

ClientSampleId :

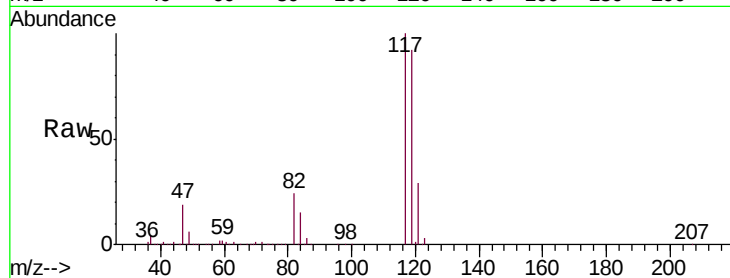
BFB09

Tgt Ion:117 Resp: 550766

Ion Ratio Lower Upper

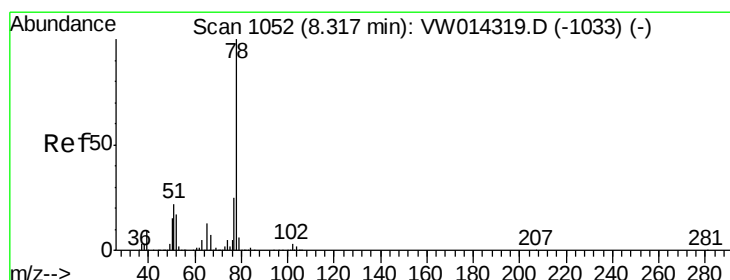
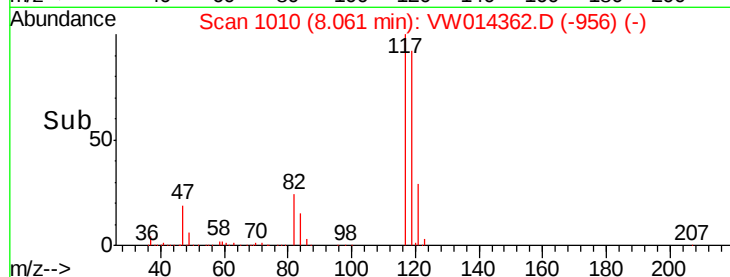
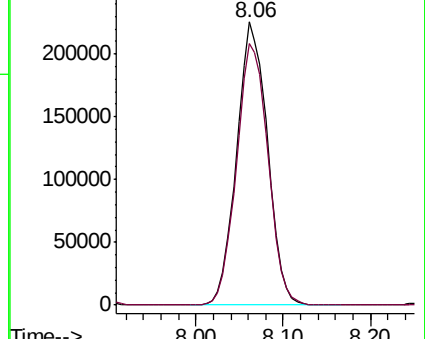
117 100

119 94.7 76.7 115.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 24.292 ug/L

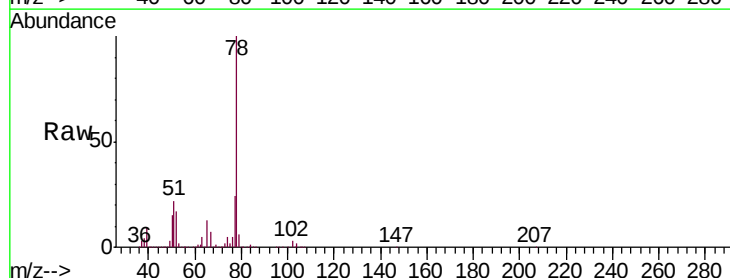
RT: 8.32 min Scan# 1052

Delta R.T. 0.00 min

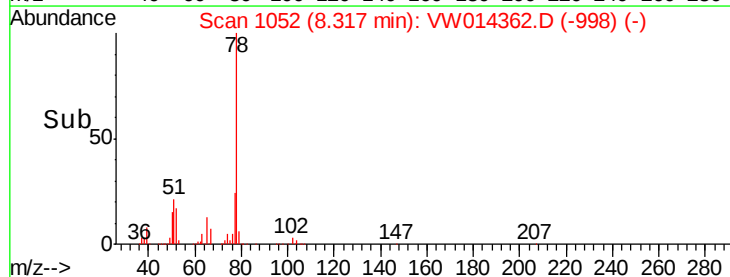
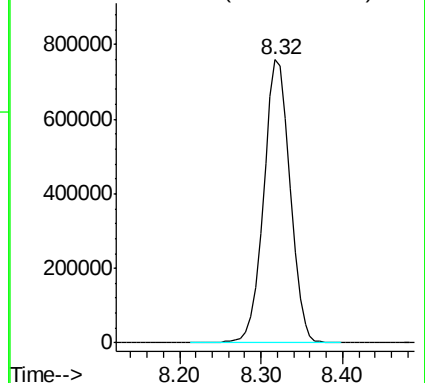
Lab File: VW014362.D

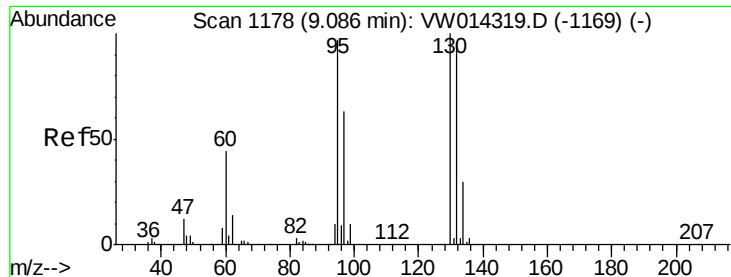
Acq: 16 Dec 2019 11:11

Tgt Ion: 78 Resp: 1710883



Abundance Ion 78.00 (77.70 to 78.70): VW

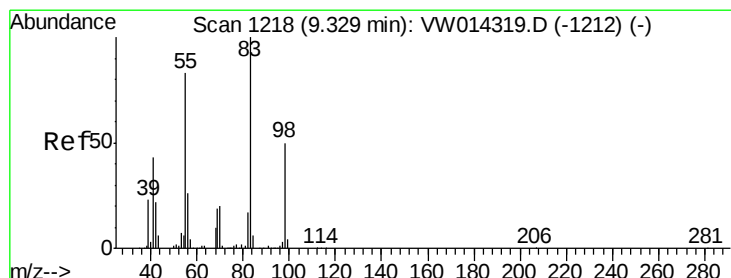
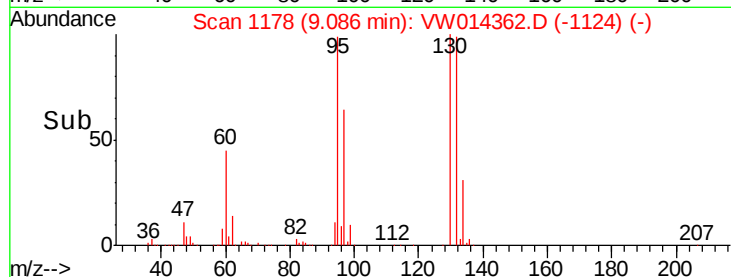
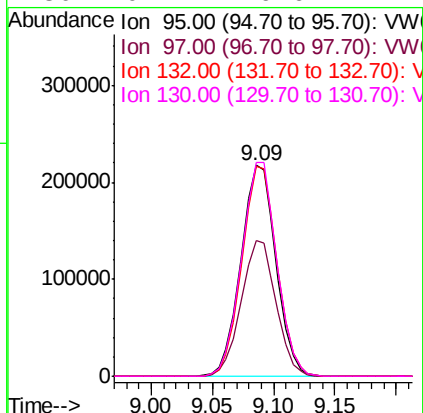
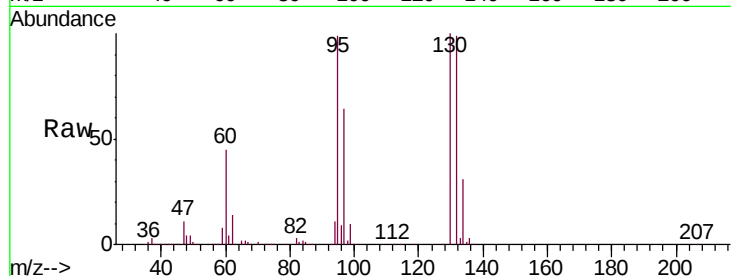




#35
 Trichloroethene
 Concen: 24.012 ug/L
 RT: 9.09 min Scan# 1178
 Delta R.T. 0.00 min
 Lab File: VW014362.D
 Acq: 16 Dec 2019 11:11

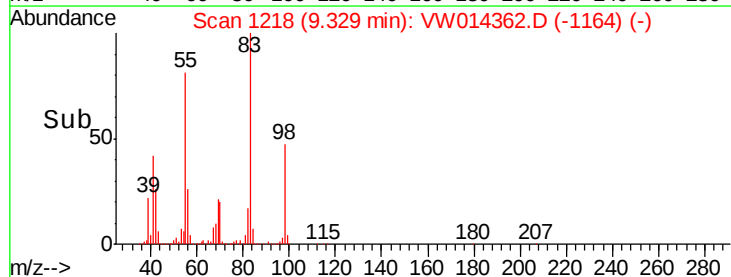
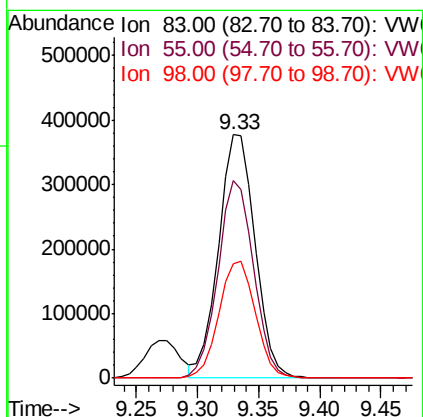
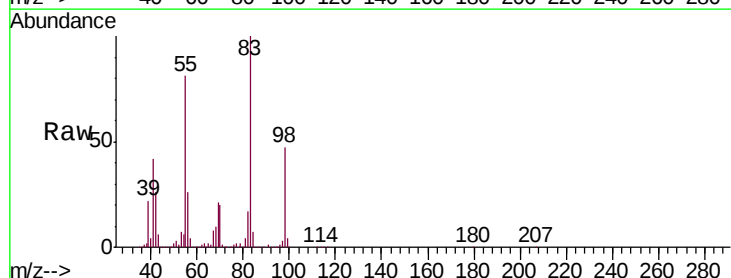
Instrument :
 MSVOA_W
 ClientSampleId :
 BFB09

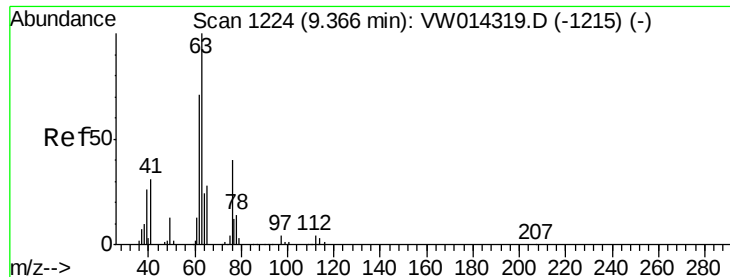
Tgt Ion:	95	Resp:	432690
Ion	Ratio	Lower	Upper
95	100		
97	63.7	45.1	83.9
132	99.6	73.7	136.9
130	102.1	76.6	142.2



#36
 Methylcyclohexane
 Concen: 25.848 ug/L
 RT: 9.33 min Scan# 1218
 Delta R.T. 0.00 min
 Lab File: VW014362.D
 Acq: 16 Dec 2019 11:11

Tgt Ion:	83	Resp:	782701
Ion	Ratio	Lower	Upper
83	100		
55	79.1	59.8	89.8
98	47.7	39.5	59.3

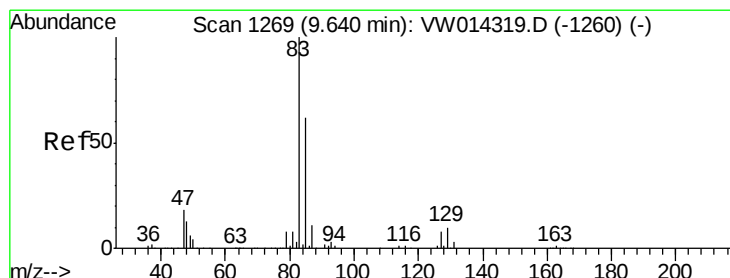
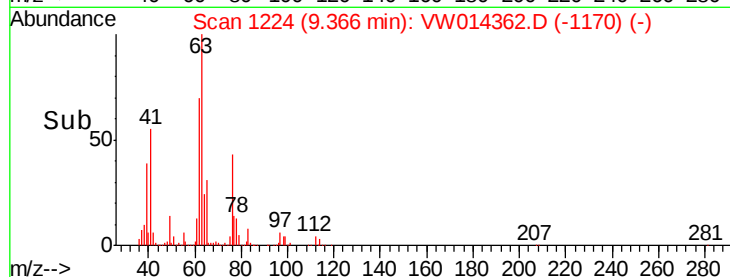
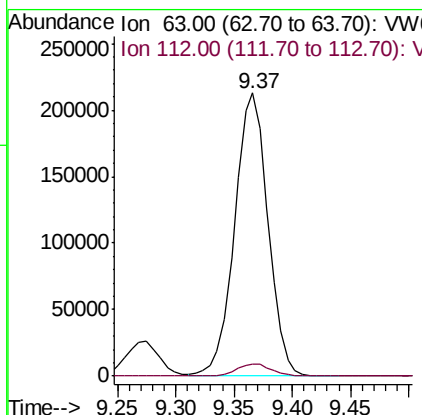
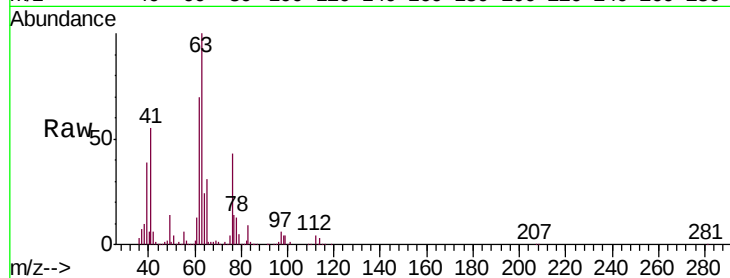




#40
 1,2-Dichloropropane
 Concen: 23.485 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW014362.D
 Acq: 16 Dec 2019 11:11

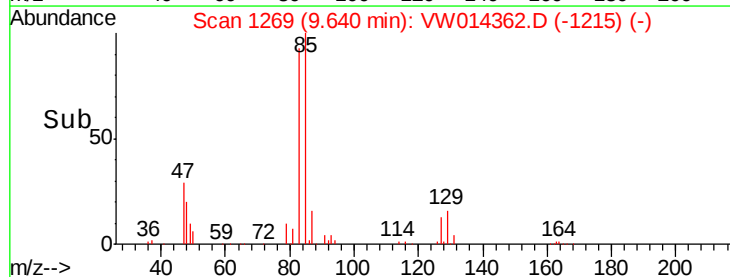
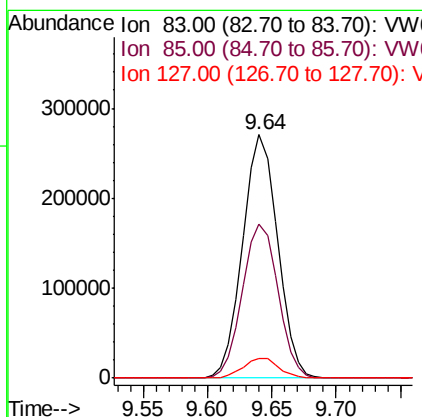
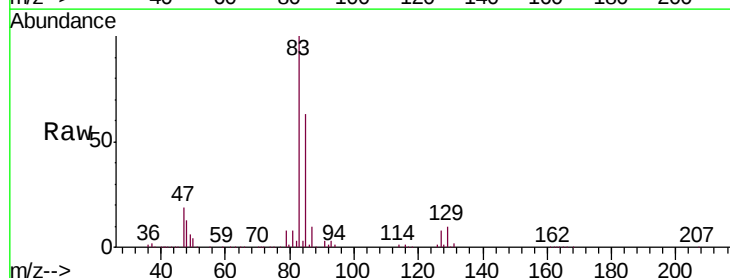
Instrument :
 MSVOA_W
 ClientSampleId :
 BFB09

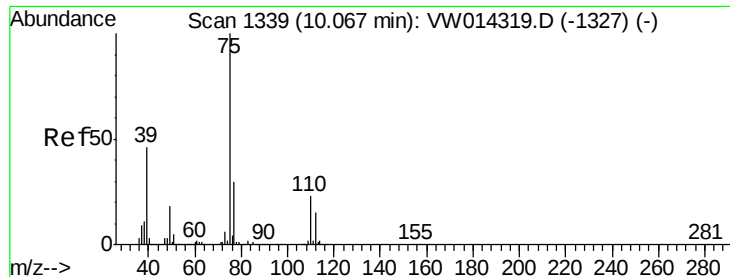
Tgt Ion: 63 Resp: 424917
 Ion Ratio Lower Upper
 63 100
 112 4.5 3.9 5.9



#41
 Bromodichloromethane
 Concen: 23.246 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VW014362.D
 Acq: 16 Dec 2019 11:11

Tgt Ion: 83 Resp: 511149
 Ion Ratio Lower Upper
 83 100
 85 63.0 45.1 83.7
 127 8.0 7.4 11.0





#42

cis-1,3-Dichloropropene

Concen: 23.903 ug/L

RT: 10.07 min Scan# 1339

Delta R.T. 0.00 min

Lab File: VW014362.D

Acq: 16 Dec 2019 11:11

Instrument :

MSVOA_W

ClientSampleId :

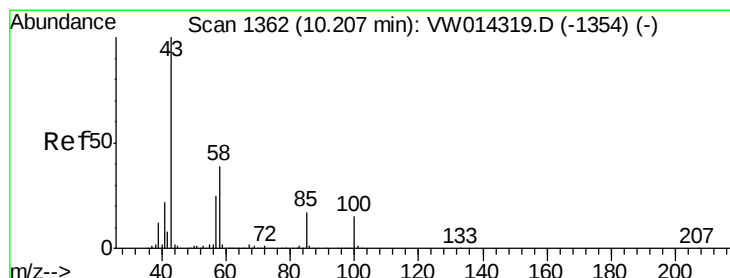
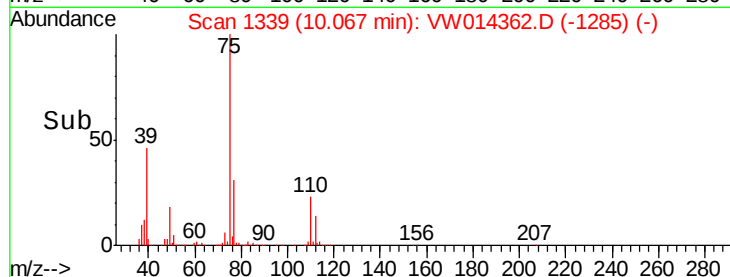
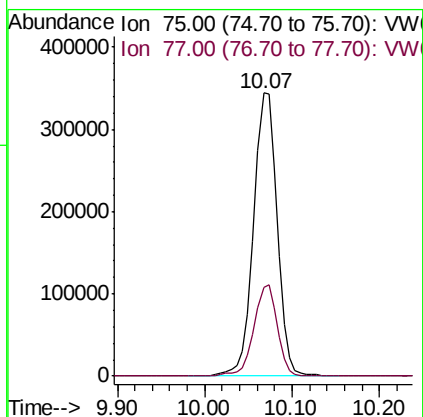
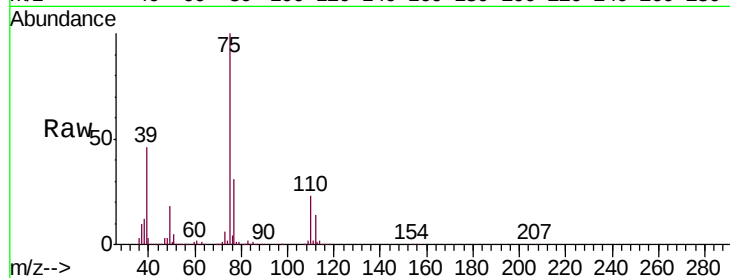
BFB09

Tgt Ion: 75 Resp: 647684

Ion Ratio Lower Upper

75 100

77 31.4 22.1 41.1



#43

4-Methyl-2-pentanone

Concen: 43.636 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW014362.D

Acq: 16 Dec 2019 11:11

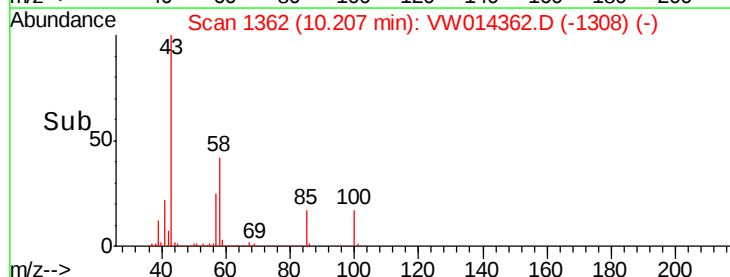
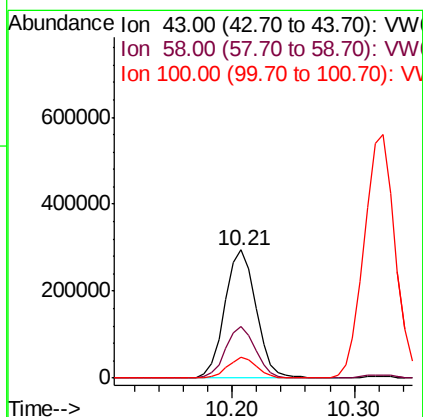
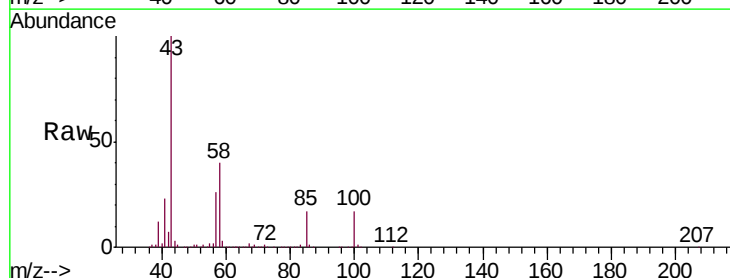
Tgt Ion: 43 Resp: 520629

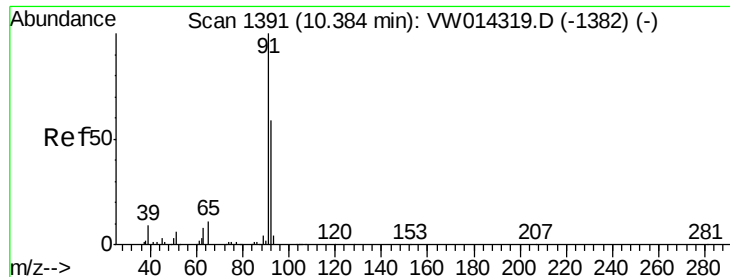
Ion Ratio Lower Upper

43 100

58 39.4 32.6 49.0

100 15.4 13.8 20.8





#44

Toluene

Concen: 24.292 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW014362.D

Acq: 16 Dec 2019 11:11

Instrument :

MSVOA_W

ClientSampleId :

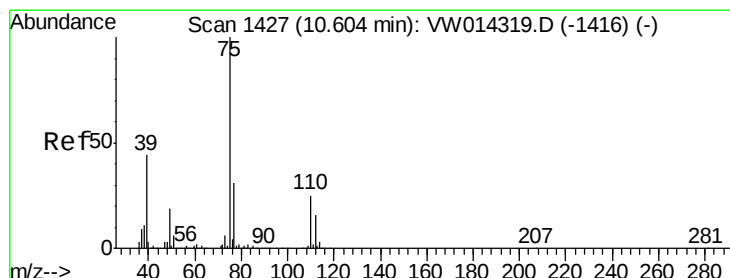
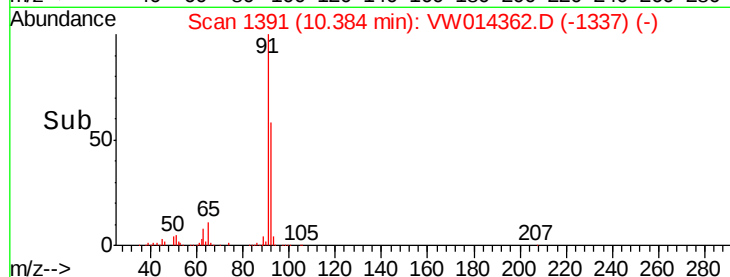
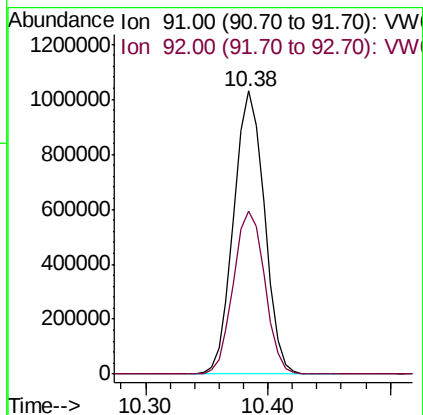
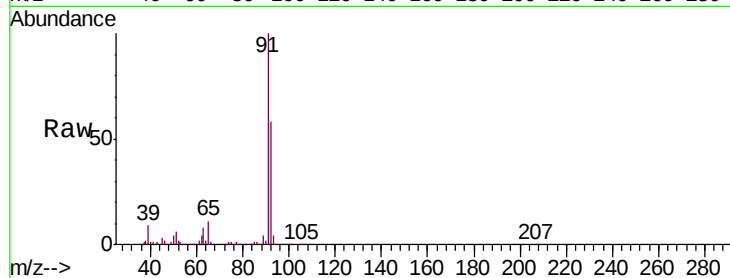
BFB09

Tgt Ion: 91 Resp: 1793638

Ion Ratio Lower Upper

91 100

92 57.6 40.7 75.7



#45

trans-1,3-Dichloropropene

Concen: 23.015 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW014362.D

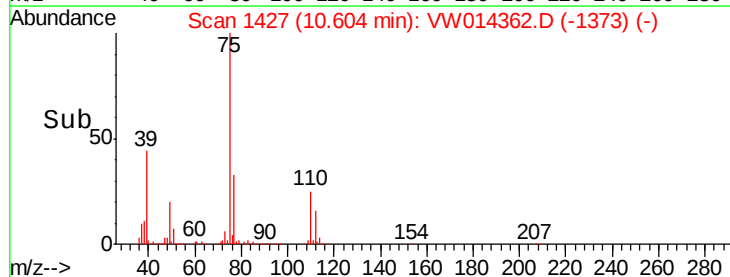
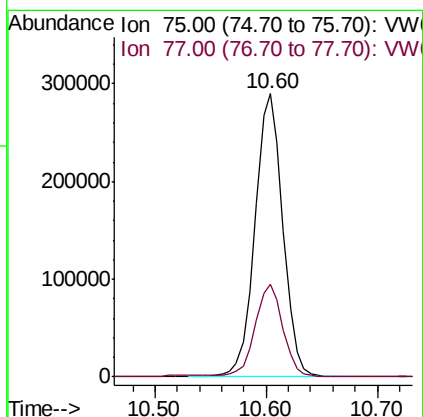
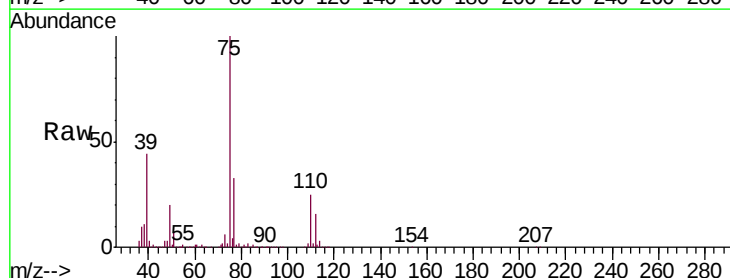
Acq: 16 Dec 2019 11:11

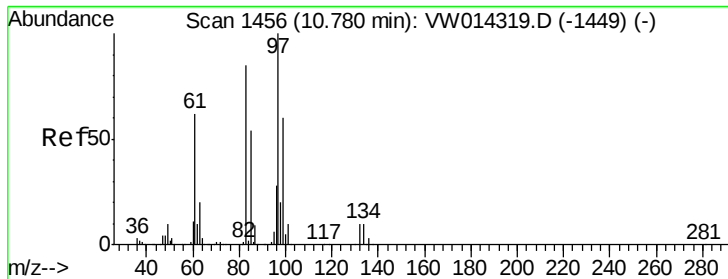
Tgt Ion: 75 Resp: 504811

Ion Ratio Lower Upper

75 100

77 32.7 21.8 40.6

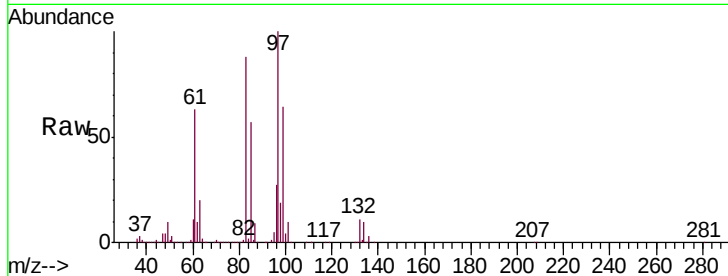




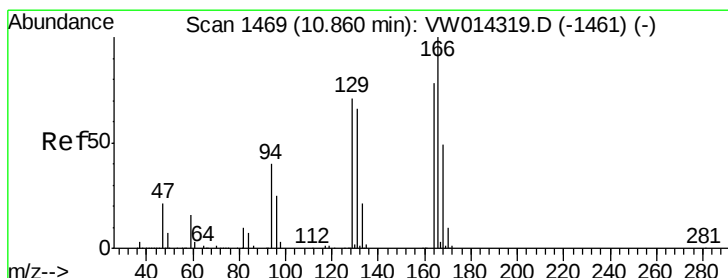
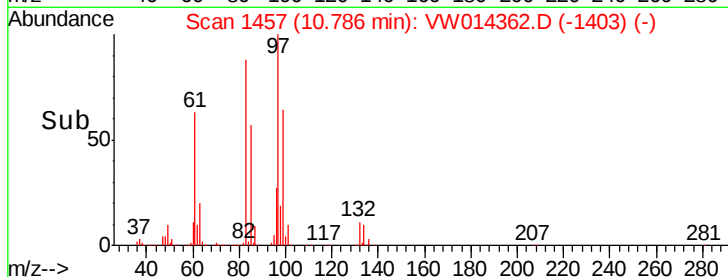
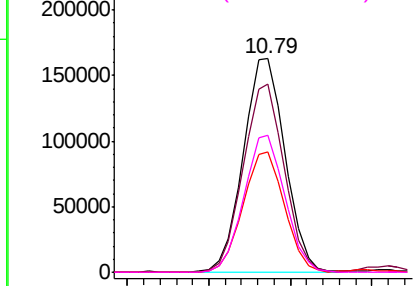
#46
 1,1,2-Trichloroethane
 Concen: 21.440 ug/L
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW014362.D
 Acq: 16 Dec 2019 11:11

Instrument :
 MSVOA_W
 ClientSampled :
 BFB09

Tgt Ion:	97	Resp:	290686
Ion	Ratio	Lower	Upper
97	100		
83	87.8	58.9	109.5
85	56.6	38.1	70.9
99	63.9	46.5	86.3

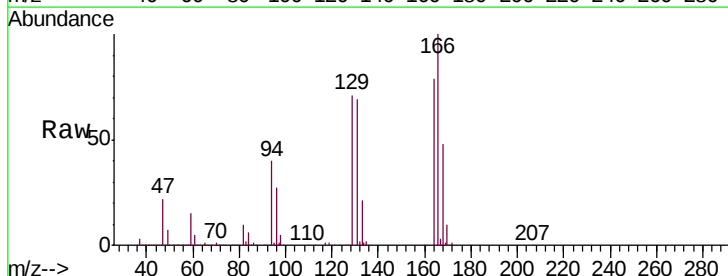


Abundance Ion 97.00 (96.70 to 97.70): VW
 Ion 83.00 (82.70 to 83.70): VW
 Ion 85.00 (84.70 to 85.70): VW
 Ion 99.00 (98.70 to 99.70): VW

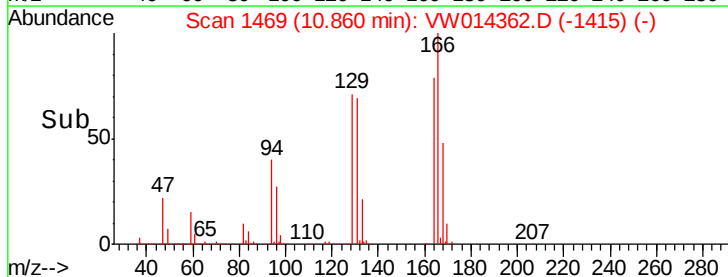
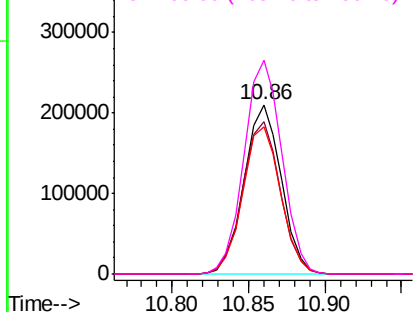


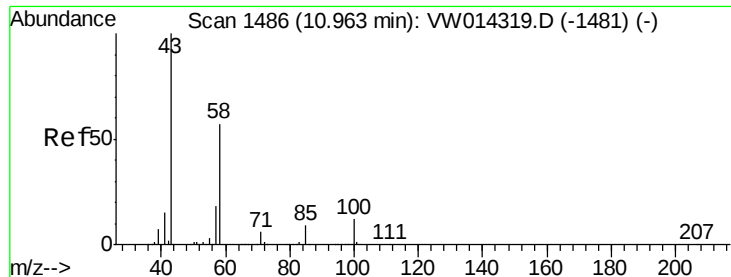
#47
 Tetrachloroethene
 Concen: 23.685 ug/L
 RT: 10.86 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VW014362.D
 Acq: 16 Dec 2019 11:11

Tgt Ion:	164	Resp:	355730
Ion	Ratio	Lower	Upper
164	100		
129	90.0	60.6	112.6
131	86.8	59.1	109.7
166	126.0	90.8	168.6



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

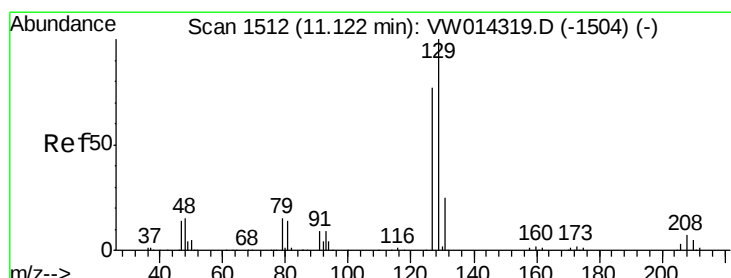
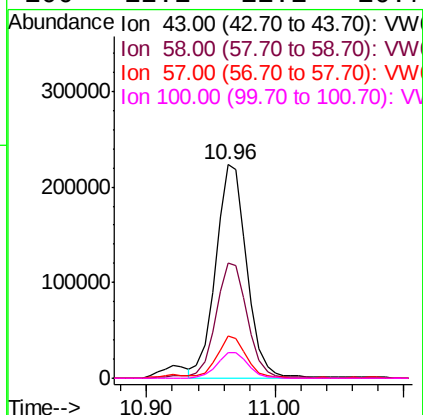
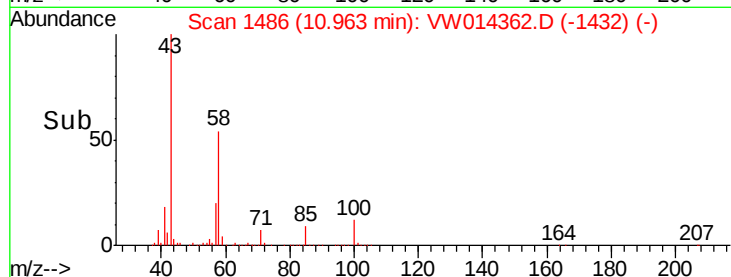
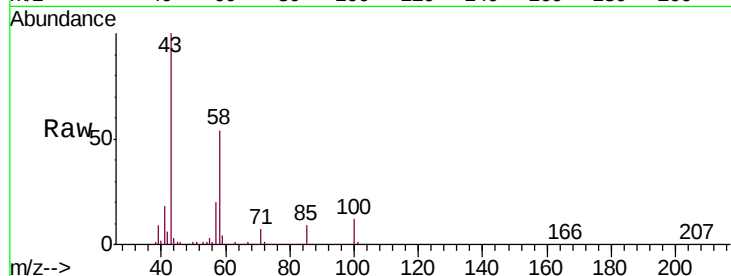




#49
2-Hexanone
Concen: 44.603 ug/L
RT: 10.96 min Scan# 1486
Delta R.T. 0.00 min
Lab File: VW014362.D
Acq: 16 Dec 2019 11:11

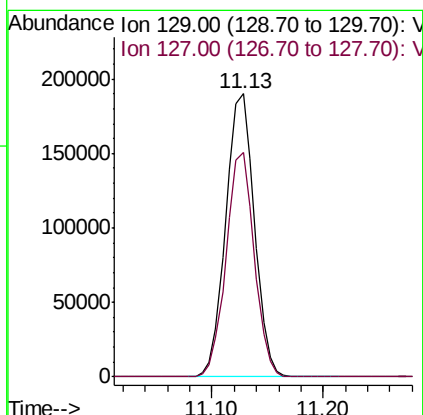
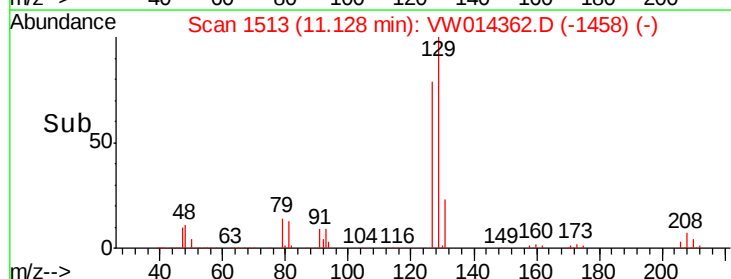
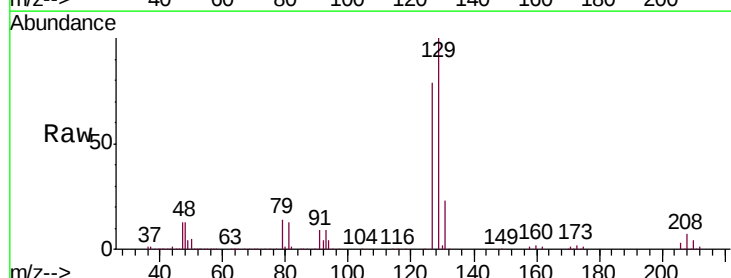
Instrument :
MSVOA_W
ClientSampleId :
BFB09

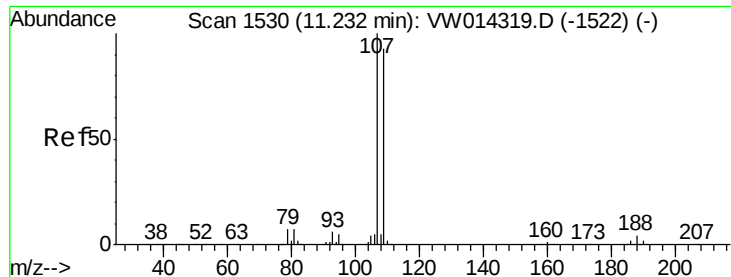
Tgt Ion: 43 Resp: 378874
Ion Ratio Lower Upper
43 100
58 53.3 44.4 66.6
57 18.5 16.5 24.7
100 12.1 11.1 16.7



#50
Dibromochloromethane
Concen: 22.252 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.01 min
Lab File: VW014362.D
Acq: 16 Dec 2019 11:11

Tgt Ion: 129 Resp: 338610
Ion Ratio Lower Upper
129 100
127 79.4 54.9 102.1





#51

1,2-Dibromoethane

Concen: 21.035 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. 0.00 min

Lab File: VW014362.D

Acq: 16 Dec 2019 11:11

Instrument :

MSVOA_W

ClientSampleId :

BFB09

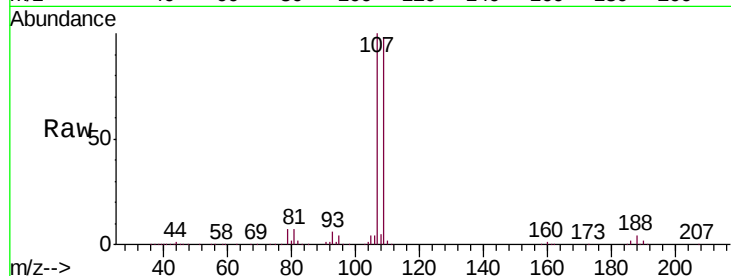
Tgt Ion:107 Resp: 270148

Ion Ratio Lower Upper

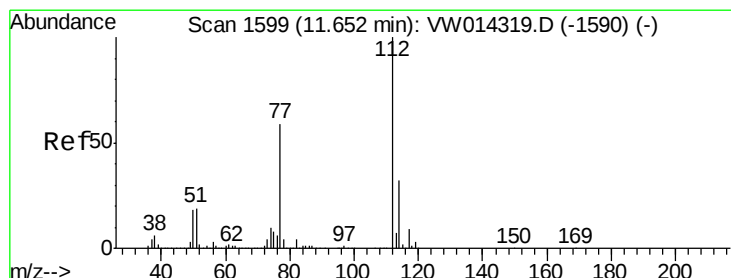
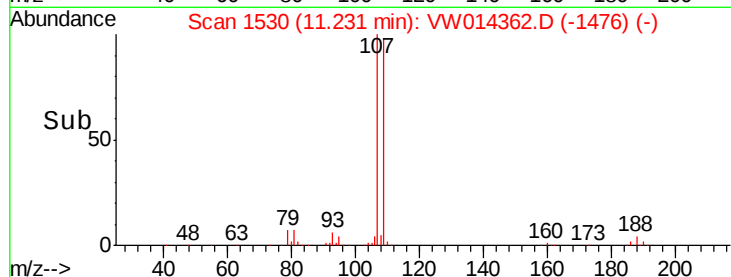
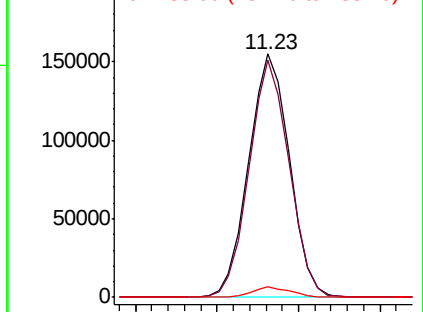
107 100

109 97.6 64.6 120.0

188 4.2 3.9 5.9



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



#52

Chlorobenzene

Concen: 22.916 ug/L

RT: 11.65 min Scan# 1599

Delta R.T. 0.00 min

Lab File: VW014362.D

Acq: 16 Dec 2019 11:11

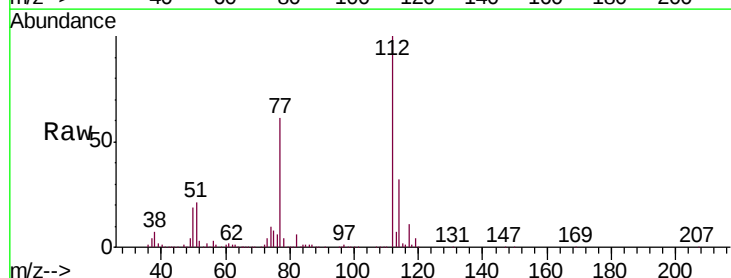
Tgt Ion:112 Resp: 1093566

Ion Ratio Lower Upper

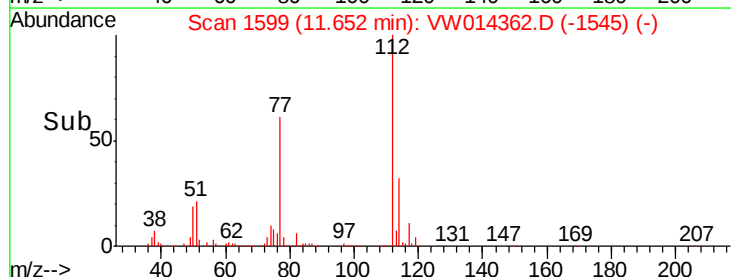
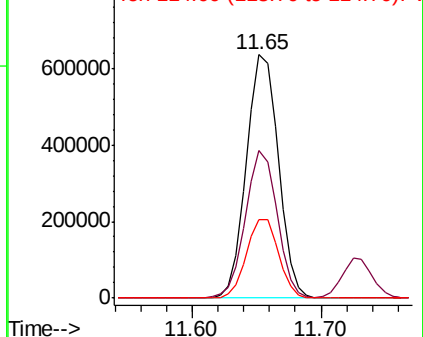
112 100

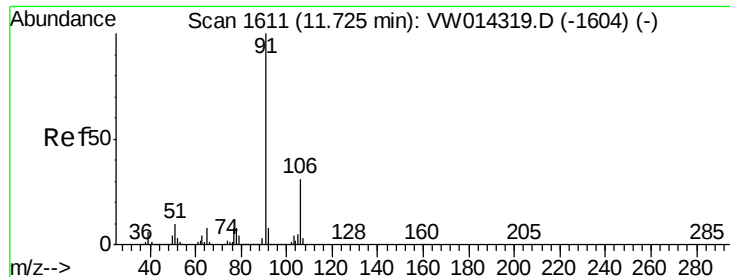
77 60.6 42.2 63.4

114 32.2 22.5 41.9



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

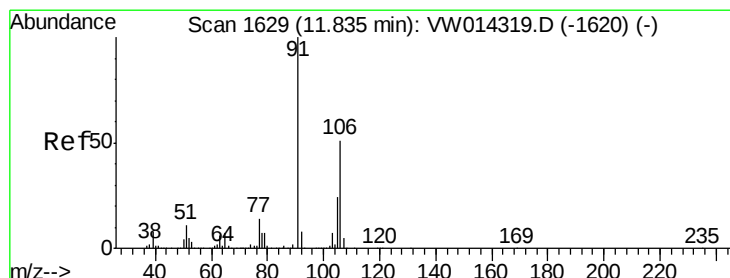
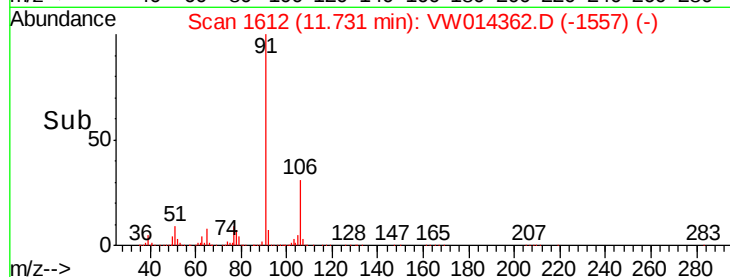
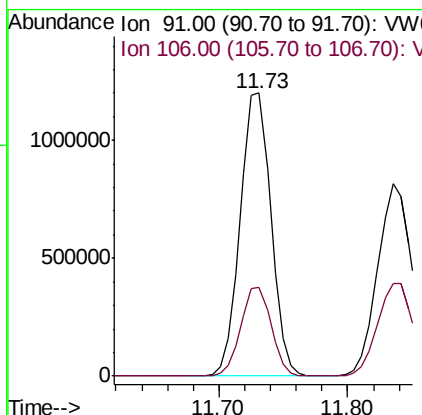
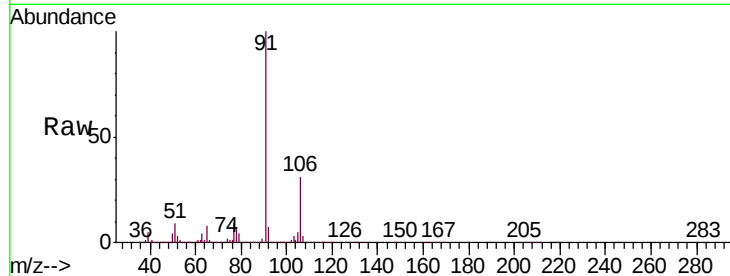




#53
Ethylbenzene
Concen: 24.775 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. 0.01 min
Lab File: VW014362.D
Acq: 16 Dec 2019 11:11

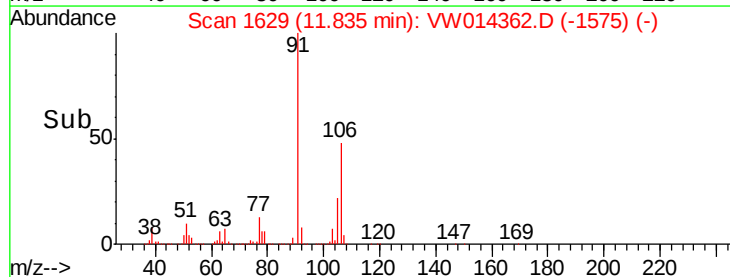
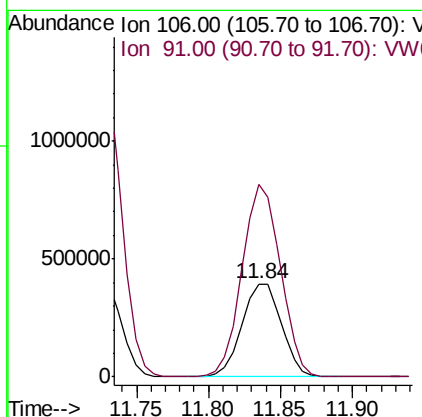
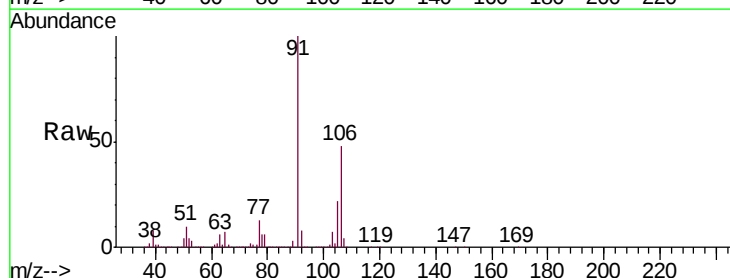
Instrument :
MSVOA_W
ClientSampleId :
BFB09

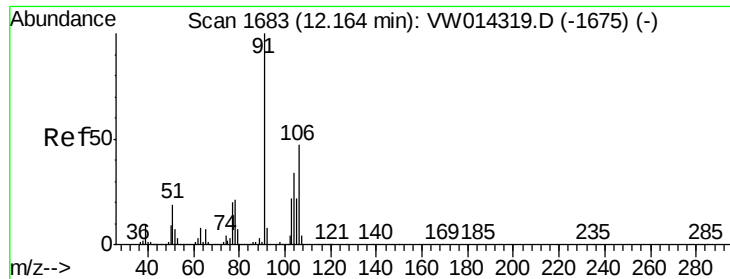
Tgt Ion: 91 Resp: 1984971
Ion Ratio Lower Upper
91 100
106 31.3 22.3 41.5



#54
m,p-Xylene
Concen: 24.271 ug/L
RT: 11.84 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VW014362.D
Acq: 16 Dec 2019 11:11

Tgt Ion: 106 Resp: 748032
Ion Ratio Lower Upper
106 100
91 206.3 138.7 257.5





#55

o-xylene

Concen: 23.928 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW014362.D

Acq: 16 Dec 2019 11:11

Instrument :

MSVOA_W

ClientSampled :

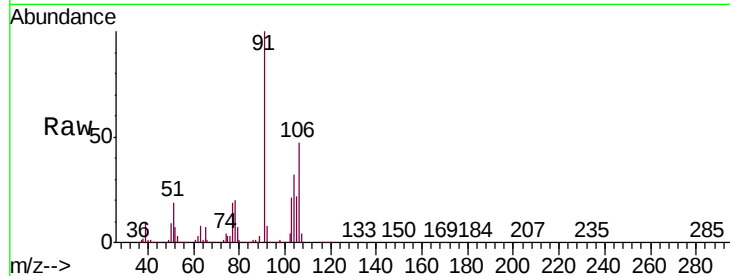
BFB09

Tgt Ion:106 Resp: 699480

Ion Ratio Lower Upper

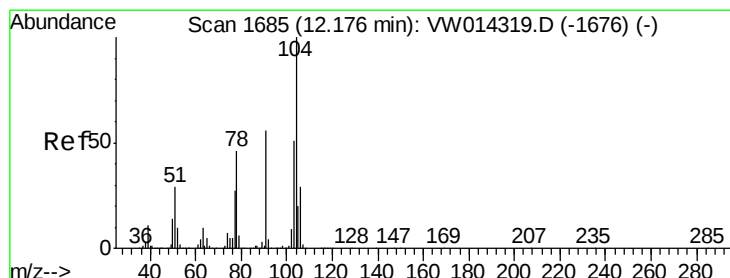
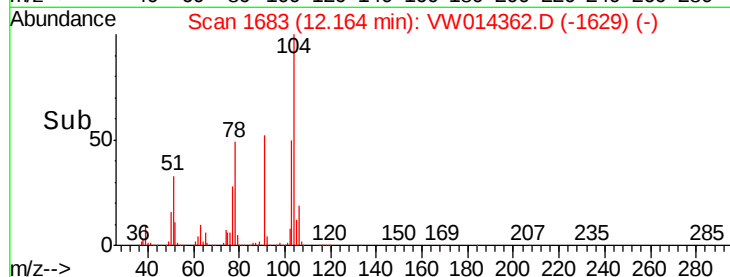
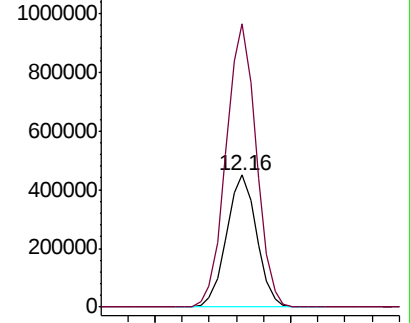
106 100

91 214.5 148.3 275.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#56

Styrene

Concen: 24.041 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. 0.00 min

Lab File: VW014362.D

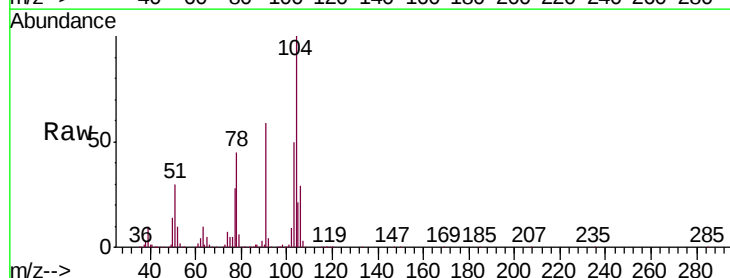
Acq: 16 Dec 2019 11:11

Tgt Ion:104 Resp: 1202284

Ion Ratio Lower Upper

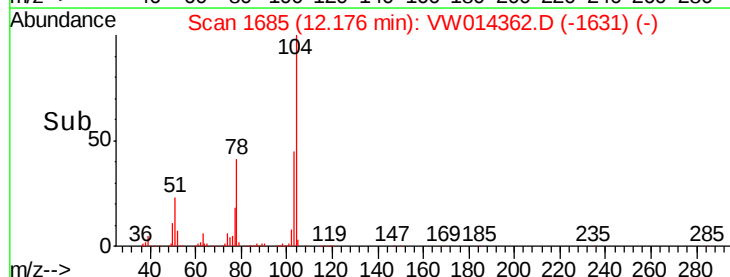
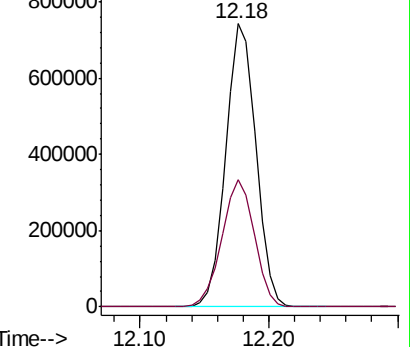
104 100

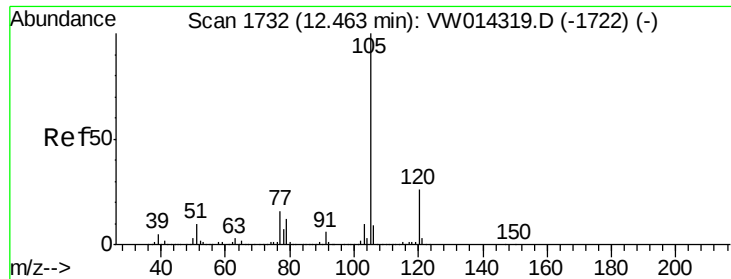
78 45.0 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW





#57

Isopropylbenzene

Concen: 25.105 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW014362.D

Acq: 16 Dec 2019 11:11

Instrument :

MSVOA_W

ClientSampleId :

BFB09

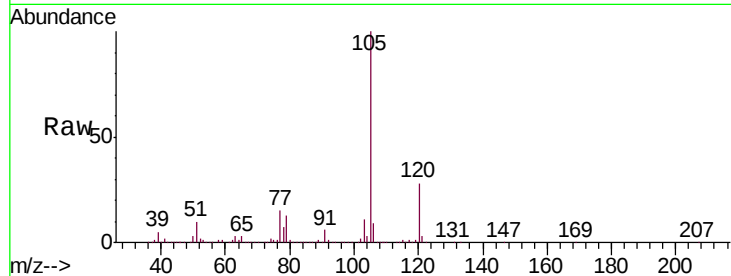
Tgt Ion: 105 Resp: 1905283

Ion Ratio Lower Upper

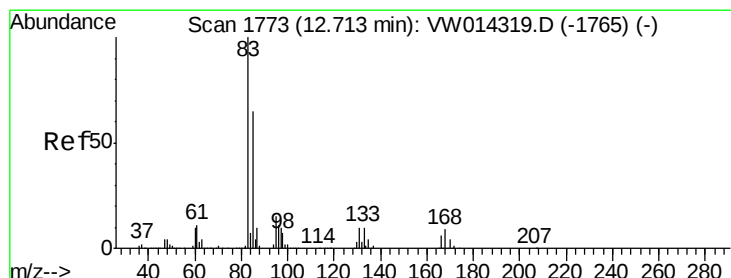
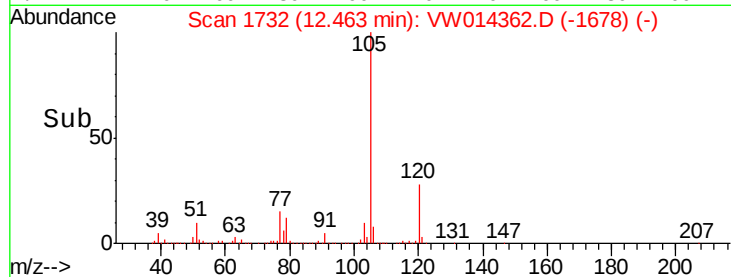
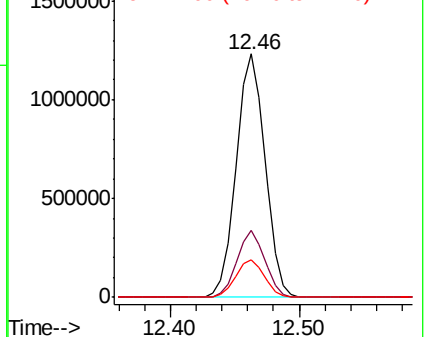
105 100

120 26.6 21.6 32.4

77 15.5 11.6 17.4



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: 20.675 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW014362.D

Acq: 16 Dec 2019 11:11

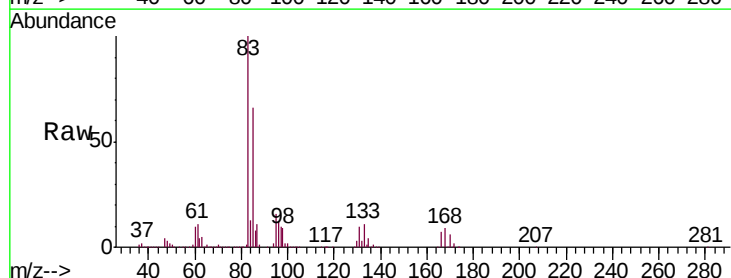
Tgt Ion: 83 Resp: 347925

Ion Ratio Lower Upper

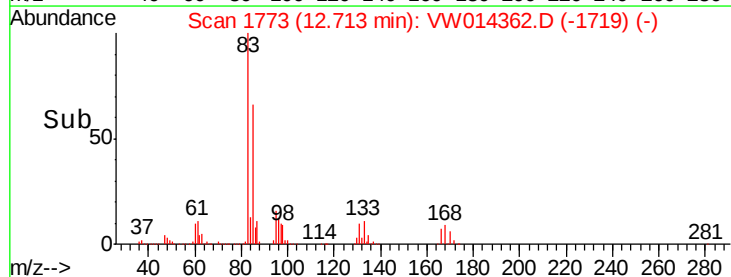
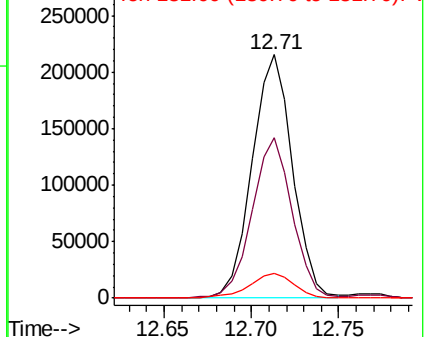
83 100

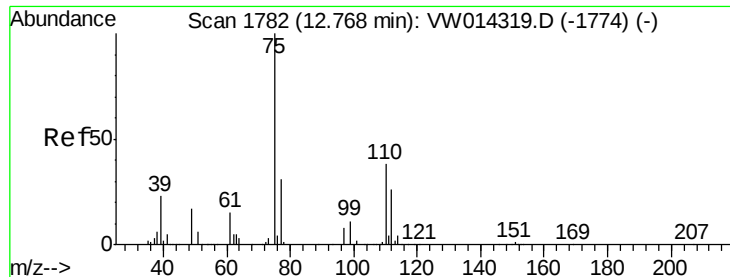
85 65.7 43.7 81.1

131 10.0 8.2 12.2



Abundance Ion 83.00 (82.70 to 83.70): V
Ion 85.00 (84.70 to 85.70): V
Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 20.585 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW014362.D

Acq: 16 Dec 2019 11:11

Instrument :

MSVOA_W

ClientSampleId :

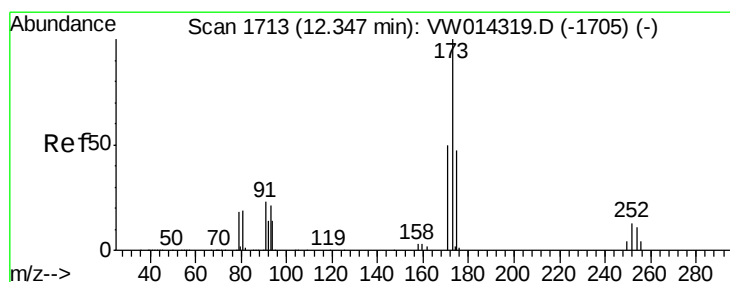
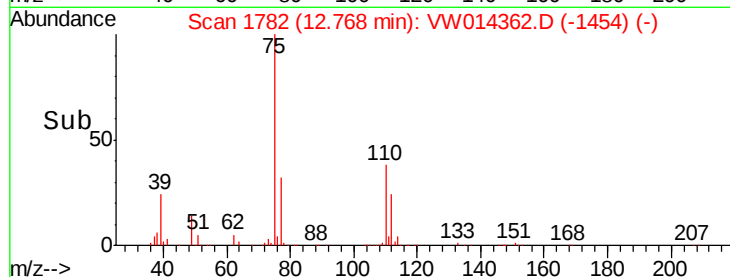
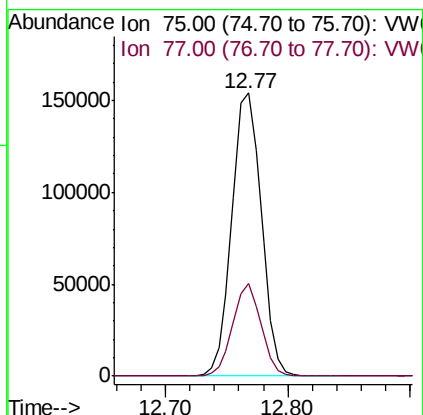
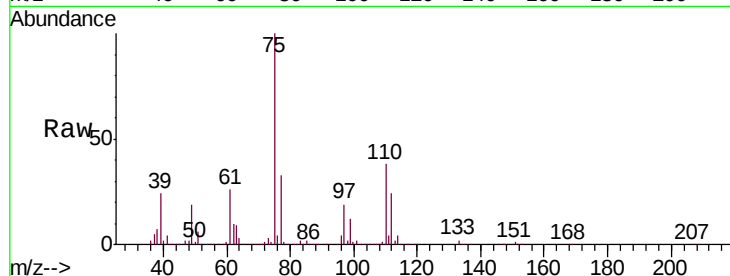
BFB09

Tgt Ion: 75 Resp: 257402

Ion Ratio Lower Upper

75 100

77 31.4 25.9 38.9



#62

Bromoform

Concen: 21.256 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW014362.D

Acq: 16 Dec 2019 11:11

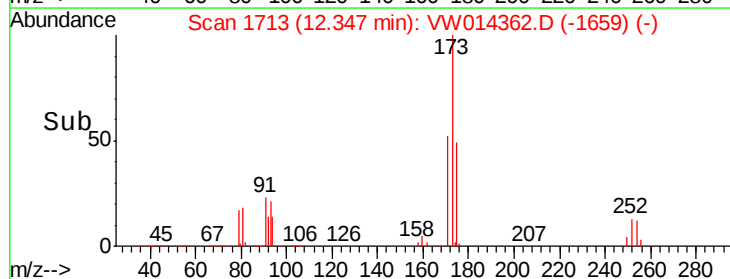
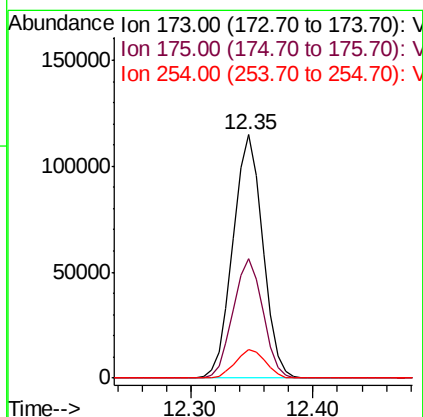
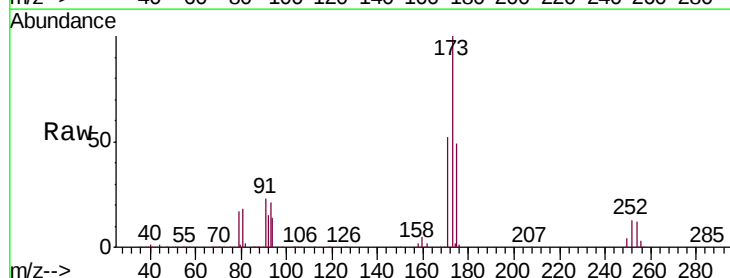
Tgt Ion: 173 Resp: 193065

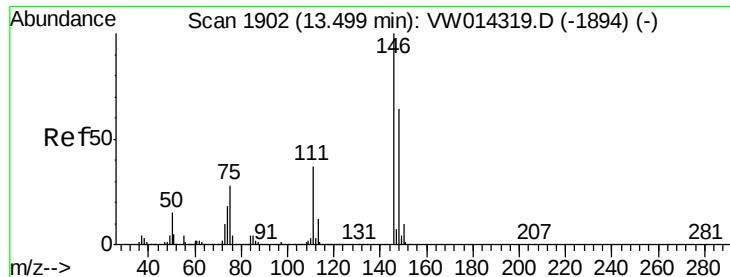
Ion Ratio Lower Upper

173 100

175 49.1 38.8 58.2

254 11.7 9.4 14.0

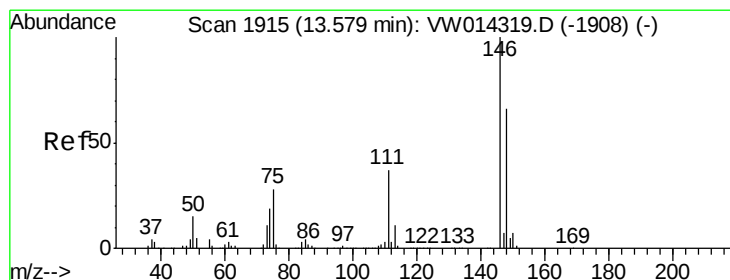
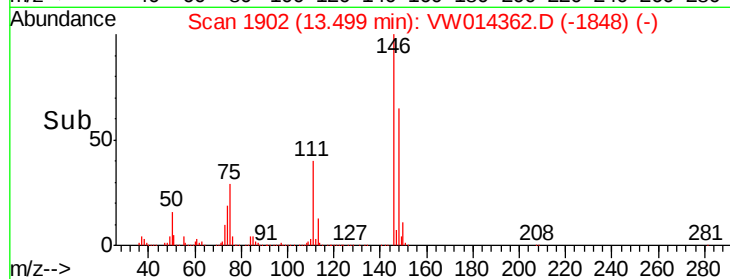
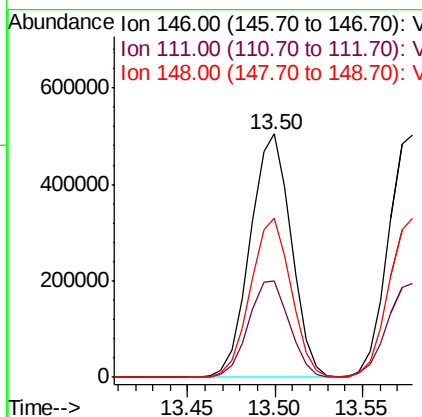
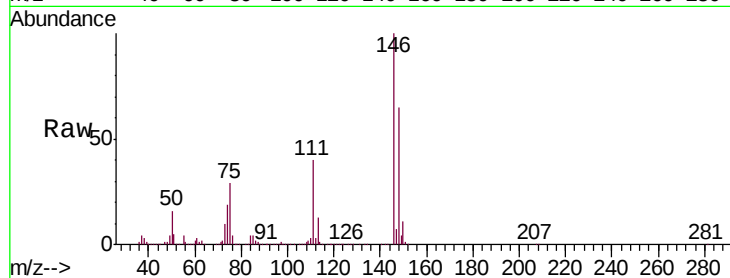




#63
 1,3-Dichlorobenzene
 Concen: 22.817 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW014362.D
 Acq: 16 Dec 2019 11:11

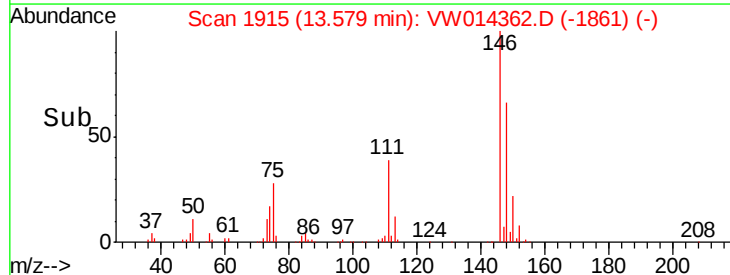
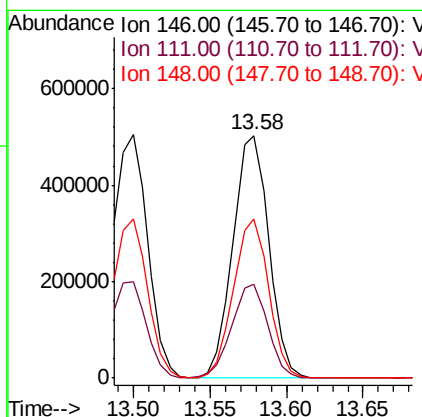
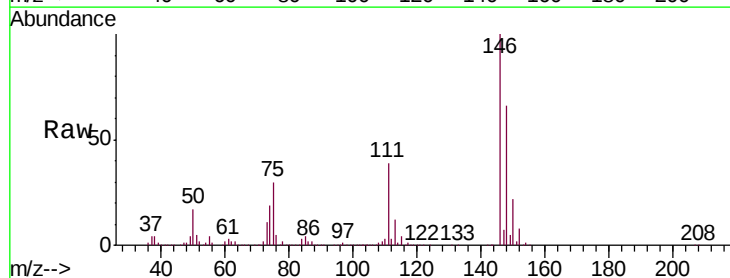
Instrument :
 MSVOA_W
 ClientSampleId :
 BFB09

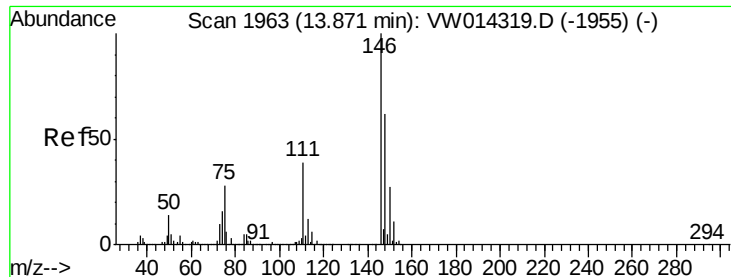
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.6	26.0	48.2
148	65.2	44.7	82.9



#64
 1,4-Dichlorobenzene
 Concen: 22.405 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW014362.D
 Acq: 16 Dec 2019 11:11

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.7	24.9	46.3
148	65.7	43.9	81.5





#65

1,2-Dichlorobenzene

Concen: 22.041 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. 0.01 min

Lab File: VW014362.D

Acq: 16 Dec 2019 11:11

Instrument :

MSVOA_W

ClientSampleId :

BFB09

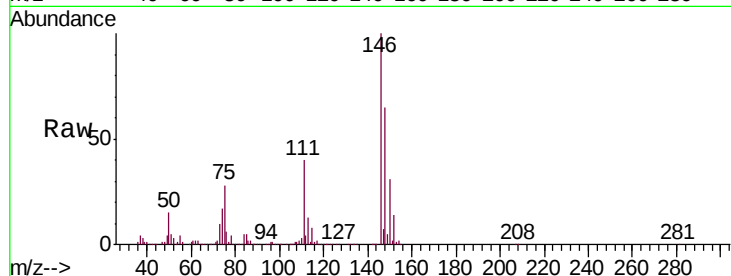
Tgt Ion:146 Resp: 737289

Ion Ratio Lower Upper

146 100

111 40.3 30.5 45.7

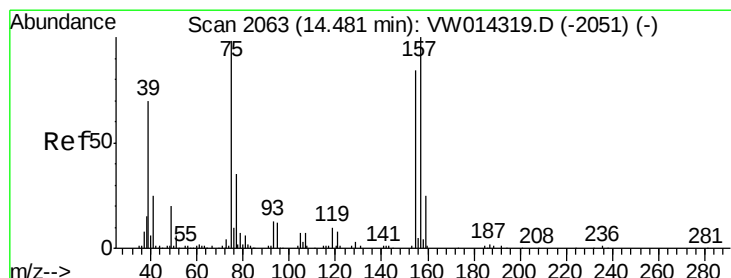
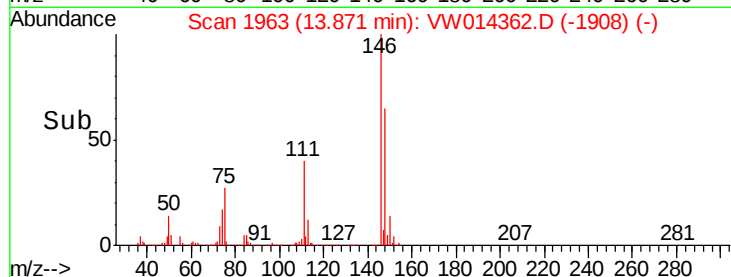
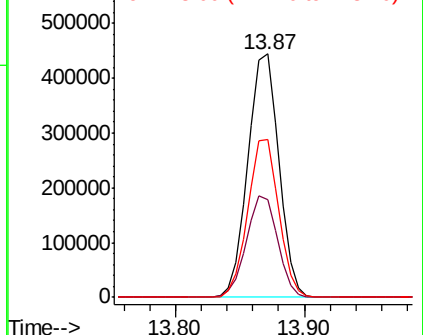
148 64.8 49.4 74.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 19.596 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. 0.00 min

Lab File: VW014362.D

Acq: 16 Dec 2019 11:11

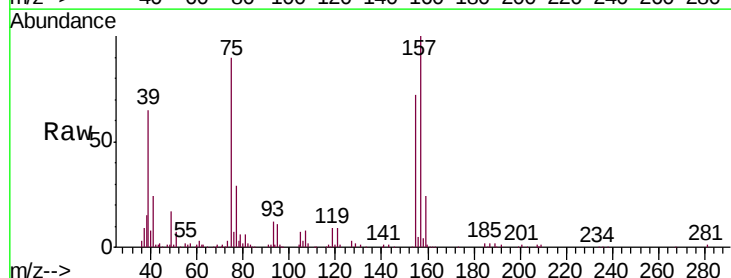
Tgt Ion: 75 Resp: 50565

Ion Ratio Lower Upper

75 100

157 110.9 96.9 145.3

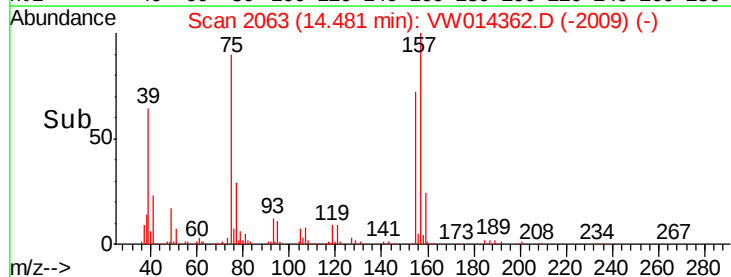
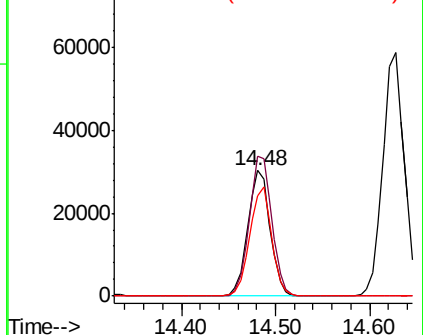
155 80.2 82.9 124.3#

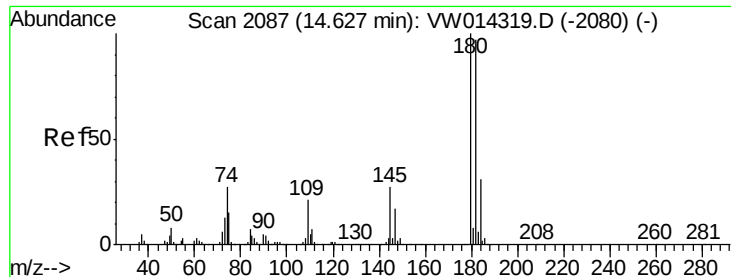


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

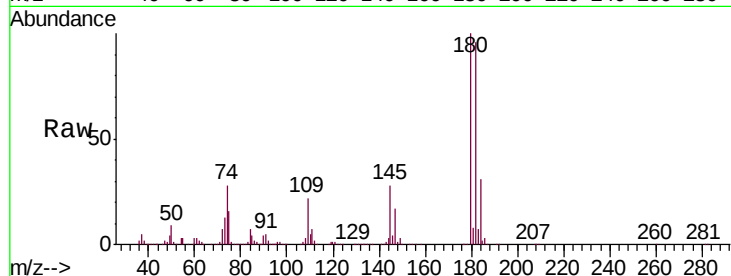




#67
 1,3,5-Trichlorobenzene
 Concen: 23.029 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW014362.D
 Acq: 16 Dec 2019 11:11

Instrument :
 MSVOA_W
 ClientSampleId :
 BFB09

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.2	76.2	114.2
184	30.3	24.3	36.5
145	28.2	21.9	32.9



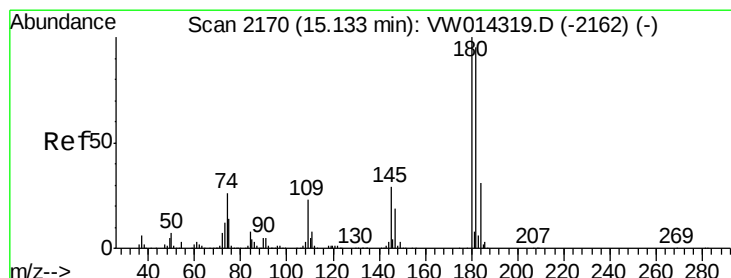
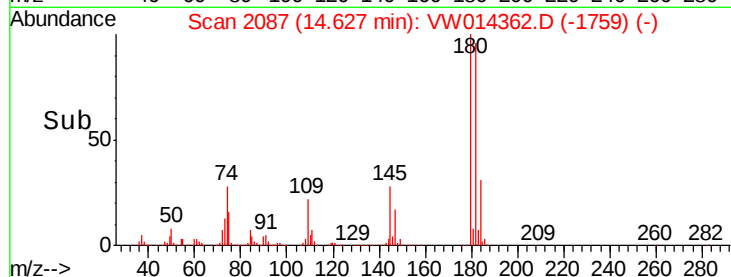
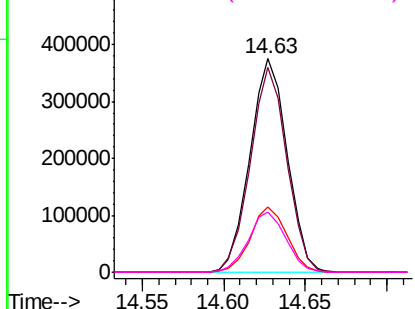
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

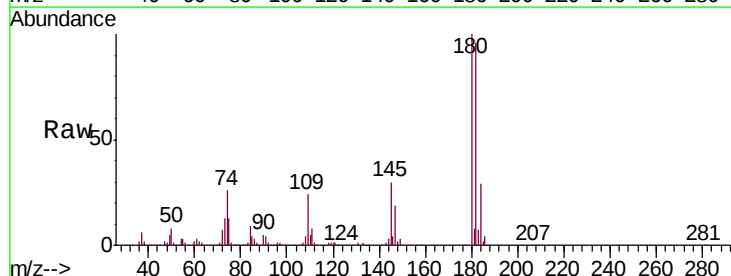
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 22.706 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW014362.D
 Acq: 16 Dec 2019 11:11

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.4	75.8	113.8
145	28.6	22.4	33.6

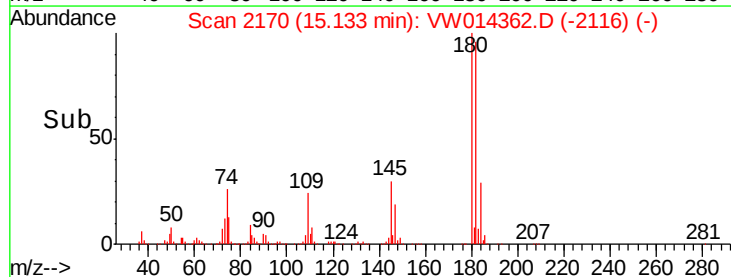
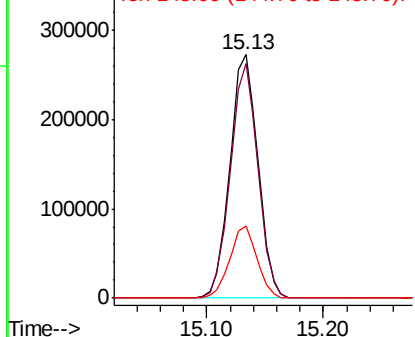


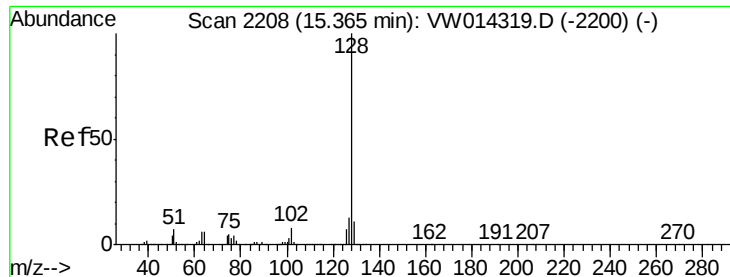
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 21.321 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW014362.D

Acq: 16 Dec 2019 11:11

Instrument :

MSVOA_W

ClientSampleId :

BFB09

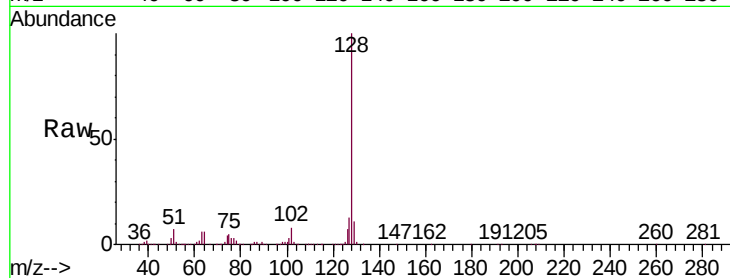
Tgt Ion:128 Resp: 808907

Ion Ratio Lower Upper

128 100

129 10.8 8.8 13.2

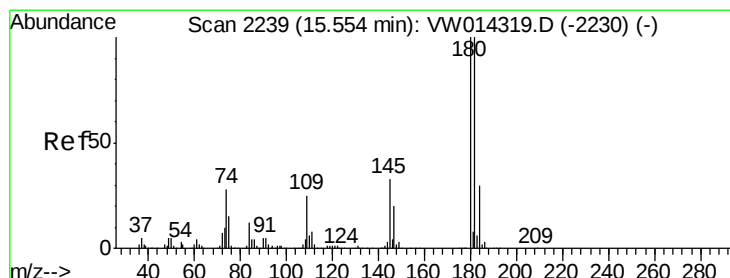
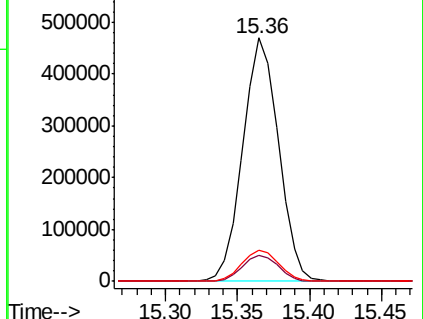
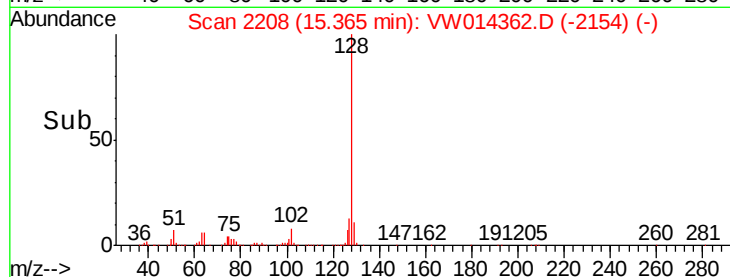
127 13.2 10.4 15.6



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: 21.736 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW014362.D

Acq: 16 Dec 2019 11:11

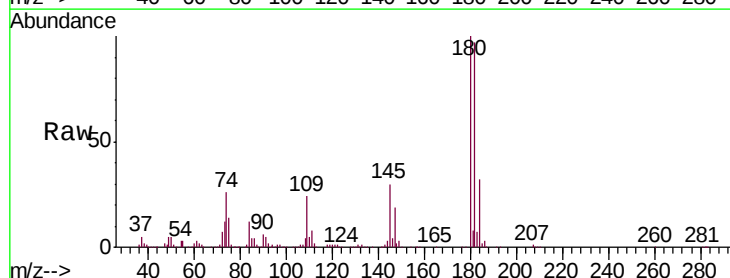
Tgt Ion:180 Resp: 411239

Ion Ratio Lower Upper

180 100

182 94.3 75.8 113.6

145 30.5 24.0 36.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

