

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW101619\
 Data File : VW013606.D
 Acq On : 16 Oct 2019 18:11
 Operator : SY/VA
 Sample : VSTDCCC025EC
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Oct 16 18:45:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM101019S.M
 Quant Title : VOC Analysis
 QLast Update : Wed Oct 16 16:38:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	459180	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	416583	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	214030	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	103225	19.64	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	78.56%
7) Chloroethane-d5	2.88	69	80784	20.02	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	80.08%
10) 1,1-Dichloroethene-d2	4.02	63	236621	21.69	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	86.76%
20) 2-Butanone-d5	7.07	46	90199	56.98	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	113.96%
24) Chloroform-d	7.65	84	225944	22.65	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	90.60%
26) 1,2-Dichloroethane-d4	8.31	65	121049	23.42	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	93.68%
29) Benzene-d6	8.27	84	479330	21.48	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	85.92%
33) 1,2-Dichloropropane-d6	9.27	67	145315	21.95	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	87.80%
37) Toluene-d8	10.32	98	450257	21.26	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	85.04%
38) trans-1,3-Dichloropropene-	10.58	79	63269	21.45	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	85.80%
39) 2-Hexanone-d5	10.93	63	73926	55.82	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	111.64%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	135170	25.47	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	101.88%
61) 1,2-Dichlorobenzene-d4	13.85	152	167776	21.81	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	87.24%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	2.01	85	62112	24.824	ug/L 98
3) Chloromethane	2.21	50	94945	21.597	ug/L 96
5) Vinyl chloride	2.35	62	142352	22.887	ug/L 100
6) Bromomethane	2.78	94	87304	22.916	ug/L 98
8) Chloroethane	2.92	64	79720	22.851	ug/L 99
9) Trichlorofluoromethane	3.25	101	70925	21.873	ug/L 100
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	136349	23.694	ug/L 99
12) 1,1-Dichloroethene	4.04	96	137042	23.775	ug/L 95
13) Acetone	4.13	43	73160	40.211	ug/L 99
14) Carbon disulfide	4.38	76	394501	22.427	ug/L 99
15) Methyl Acetate	4.67	43	82274	28.990	ug/L 100
16) Methylene chloride	4.92	84	145419	20.909	ug/L 97
17) Methyl tert-butyl Ether	5.42	73	236538	25.536	ug/L 99
18) trans-1,2-Dichloroethene	5.42	96	146952	23.891	ug/L 96
19) 1,1-Dichloroethane	6.21	63	249634	24.173	ug/L 95
21) 2-Butanone	7.17	43	115820	52.036	ug/L 99
22) cis-1,2-Dichloroethene	7.17	96	157610	23.958	ug/L 97

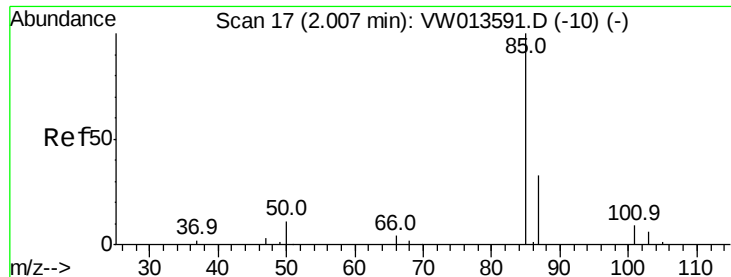
Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV101619\
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 Acq On : 16 Oct 2019 18:11
 Operator : SY/VA
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 Quant Title : VOC Analysis
 QLast Update : Wed Oct 16 16:38:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	72082	24.470	ug/L	98
25) Chloroform	7.67	83	250715	24.610	ug/L	99
27) 1,2-Dichloroethane	8.40	62	167366	25.974	ug/L	100
30) Cyclohexane	7.95	56	244457	22.318	ug/L	100
31) 1,1,1-Trichloroethane	7.87	97	197931	23.590	ug/L	99
32) Carbon tetrachloride	8.07	117	189440	23.538	ug/L	99
34) Benzene	8.32	78	589987	23.443	ug/L	100
35) Trichloroethene	9.09	95	152072	23.165	ug/L	99
36) Methylcyclohexane	9.34	83	266314	22.308	ug/L	99
40) 1,2-Dichloropropane	9.37	63	144264	23.795	ug/L	99
41) Bromodichloromethane	9.64	83	181080	24.317	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	231963	23.849	ug/L	95
43) 4-Methyl-2-pentanone	10.21	43	236810	55.982	ug/L	100
44) Toluene	10.38	91	645521	23.668	ug/L	100
45) trans-1,3-Dichloropropene	10.60	75	191797	24.973	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	117675	25.569	ug/L	98
47) Tetrachloroethene	10.86	164	138331	23.121	ug/L	99
49) 2-Hexanone	10.97	43	168491	54.805	ug/L	99
50) Dibromochloromethane	11.13	129	138531	25.566	ug/L	99
51) 1,2-Dibromoethane	11.24	107	117134	25.910	ug/L	98
52) Chlorobenzene	11.66	112	408678	23.609	ug/L	100
53) Ethylbenzene	11.73	91	708222	23.458	ug/L	98
54) m,p-Xylene	11.84	106	278763	23.669	ug/L	97
55) o-xylene	12.16	106	262637	23.890	ug/L	99
56) Styrene	12.18	104	457987	24.461	ug/L	100
57) Isopropylbenzene	12.46	105	708154	23.745	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	152149	27.982	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	114296	28.151	ug/L	100
62) Bromoform	12.35	173	91705	26.639	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	332860	23.209	ug/L	97
64) 1,4-Dichlorobenzene	13.58	146	331015	23.186	ug/L	97
65) 1,2-Dichlorobenzene	13.87	146	304847	23.640	ug/L	100
66) 1,2-Dibromo-3-chloropropan	14.49	75	24767	27.820	ug/L	99
67) 1,3,5-Trichlorobenzene	14.63	180	245729	22.701	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	205615	22.917	ug/L	98
69) Naphthalene	15.36	128	422846	25.875	ug/L	99
70) 1,2,3-Trichlorobenzene	15.55	180	188953	23.651	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 24.824 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW013606.D

Acq: 16 Oct 2019 18:11

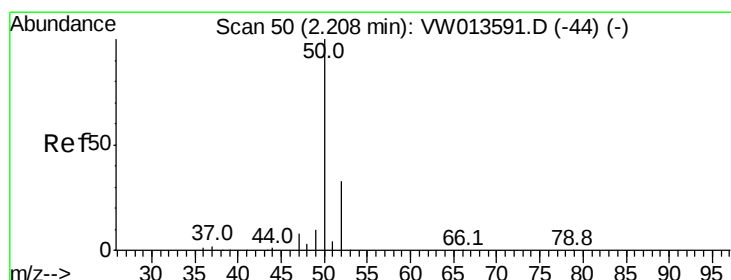
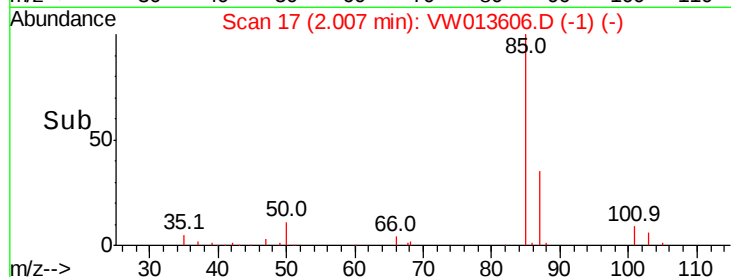
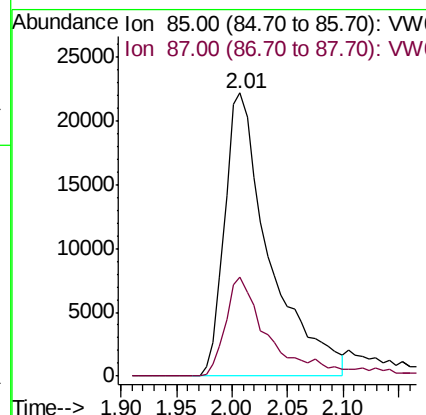
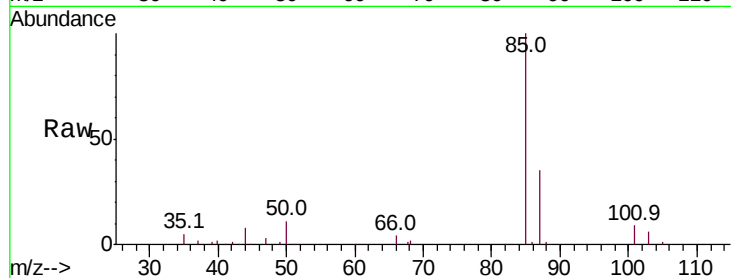
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 85 Resp: 62112

Ion Ratio Lower Upper

85 100

87 30.3 20.4 38.0



#3

Chloromethane

Concen: 21.597 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.00 min

Lab File: VW013606.D

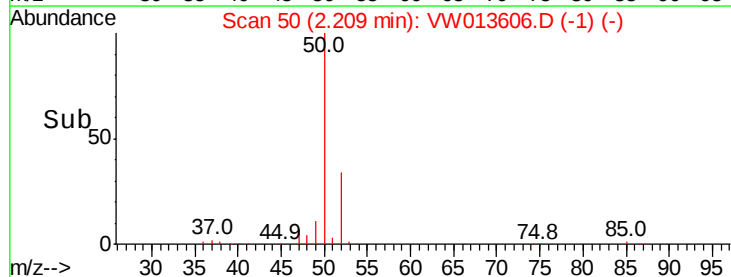
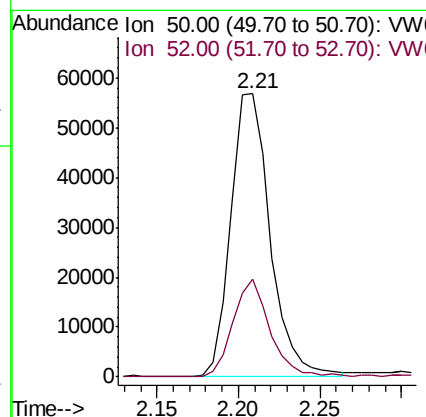
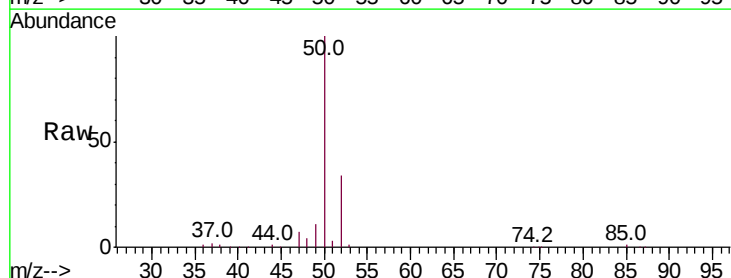
Acq: 16 Oct 2019 18:11

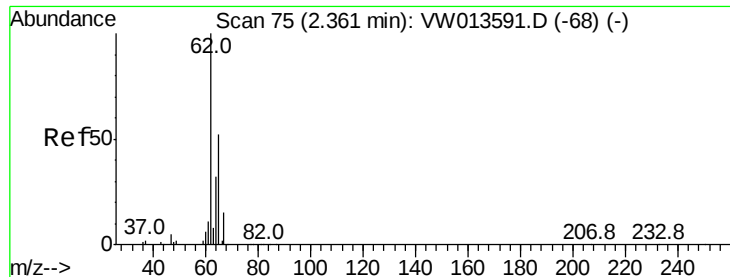
Tgt Ion: 50 Resp: 94945

Ion Ratio Lower Upper

50 100

52 34.4 22.6 42.0





#5

Vinyl chloride

Concen: 22.887 ug/L

RT: 2.35 min Scan# 74

Delta R.T. -0.00 min

Lab File: VW013606.D

Acq: 16 Oct 2019 18:11

Instrument :

MSVOA_W

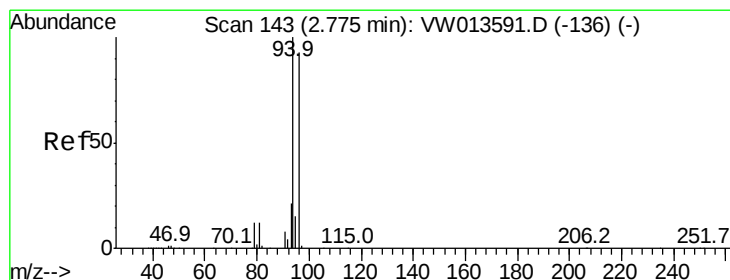
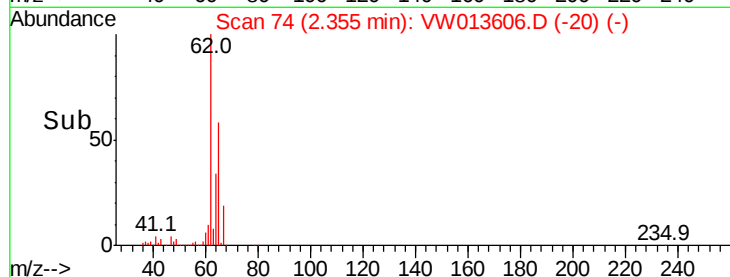
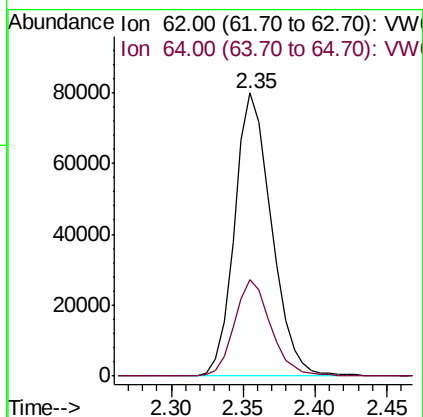
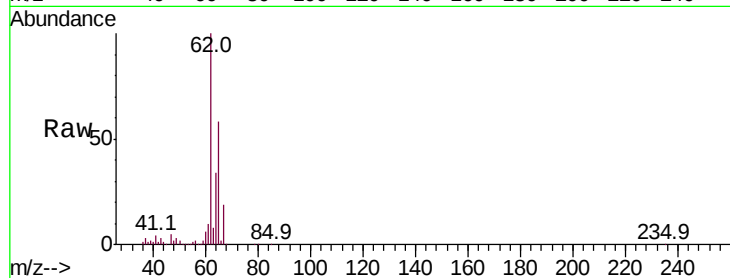
ClientSampleId :

Tot Ion: 62 Resp: 142352

Ion Ratio Lower Upper

62 100

64 34.2 23.9 44.3



#6

Bromomethane

Concen: 22.916 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.00 min

Lab File: VW013606.D

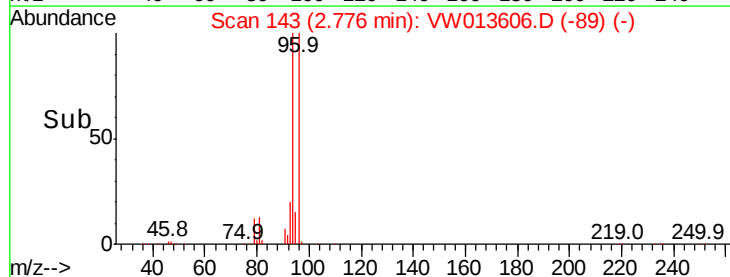
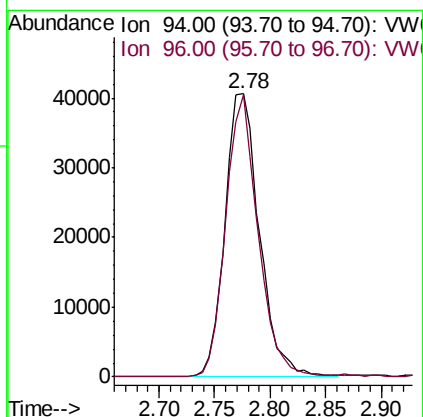
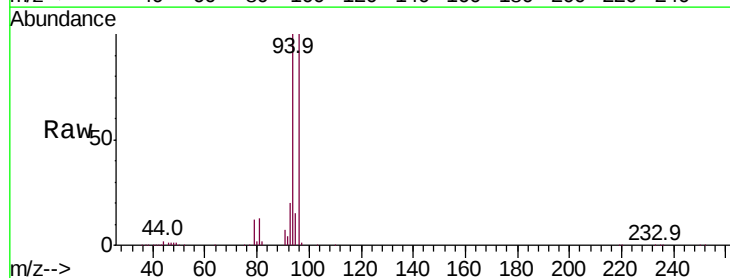
Acq: 16 Oct 2019 18:11

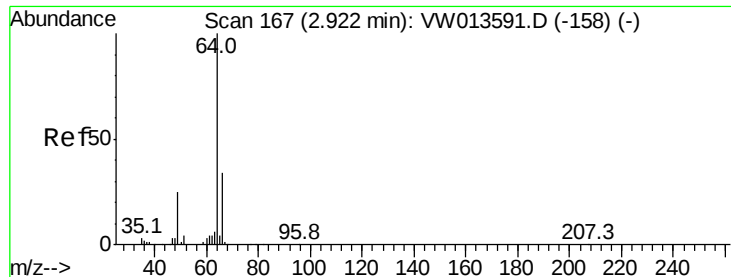
Tgt Ion: 94 Resp: 87304

Ion Ratio Lower Upper

94 100

96 93.2 9.5 179.9

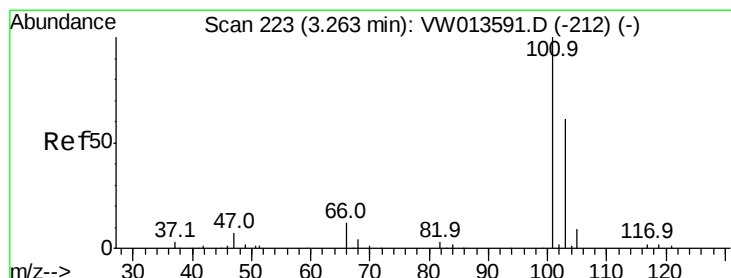
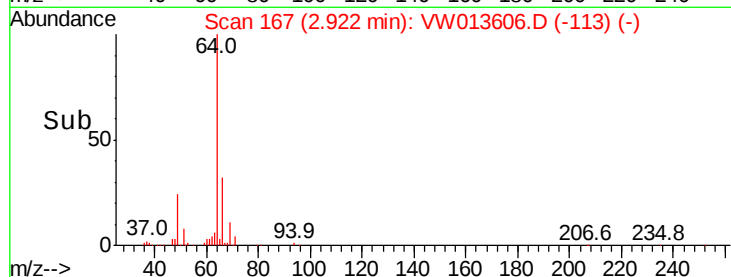
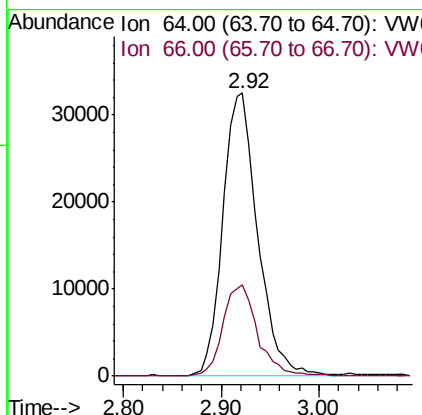
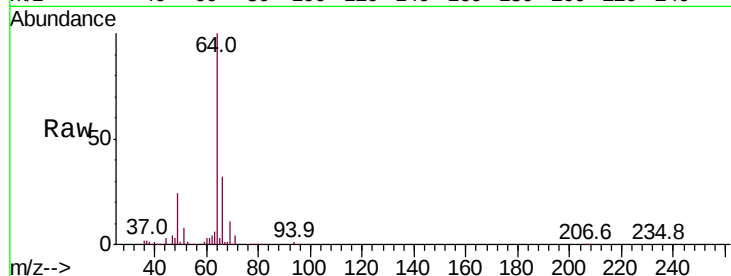




#8
Chloroethane
Concen: 22.851 ug/L
RT: 2.92 min Scan# 167
Delta R.T. -0.00 min
Lab File: VW013606.D
Acq: 16 Oct 2019 18:11

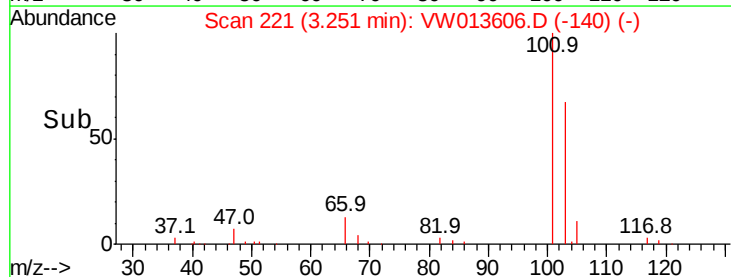
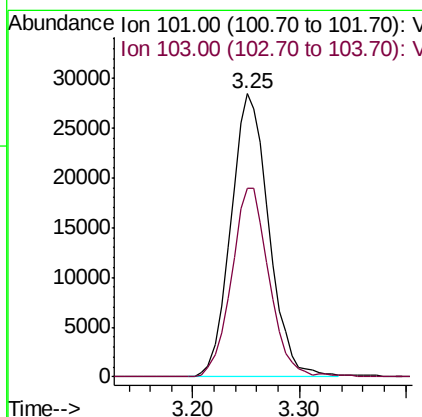
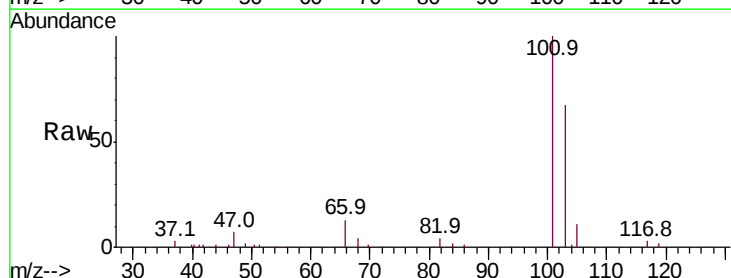
Instrument :
MSVOA_W
ClientSampleId :

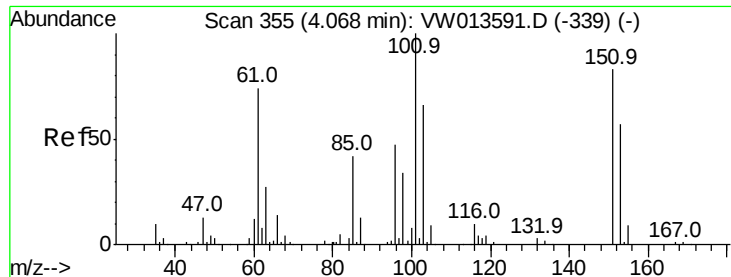
Tot Ion: 64 Resp: 79720
Ion Ratio Lower Upper
64 100
66 32.3 23.2 43.0



#9
Trichlorofluoromethane
Concen: 21.873 ug/L
RT: 3.25 min Scan# 221
Delta R.T. -0.01 min
Lab File: VW013606.D
Acq: 16 Oct 2019 18:11

Tgt Ion:101 Resp: 70925
Ion Ratio Lower Upper
101 100
103 65.6 46.0 85.4





#11

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

Concen: 23.694 ug/L

RT: 4.06 min Scan# 354

Delta R.T. -0.00 min

Lab File: VW013606.D

Acq: 16 Oct 2019 18:11

Instrument :

MSVOA_W

ClientSampleId :

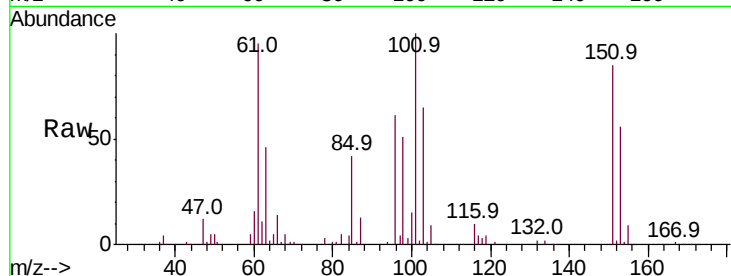
Tot Ion:101 Resp: 136349

Ion Ratio Lower Upper

101 100

85 39.6 32.0 48.0

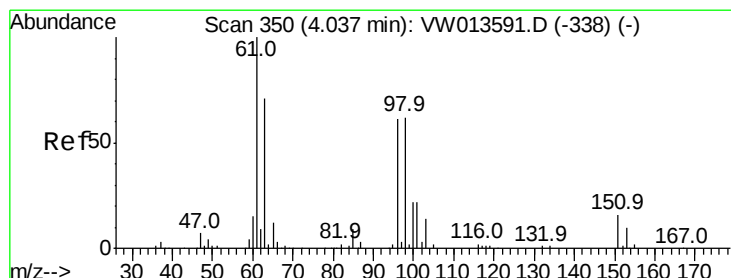
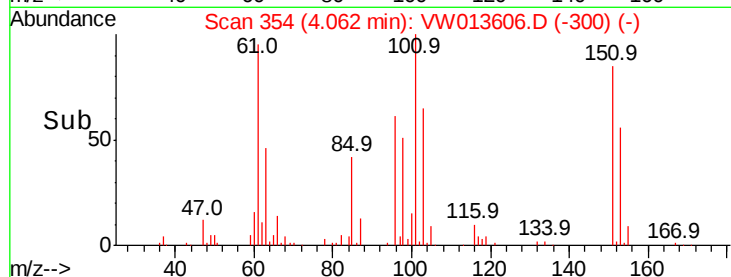
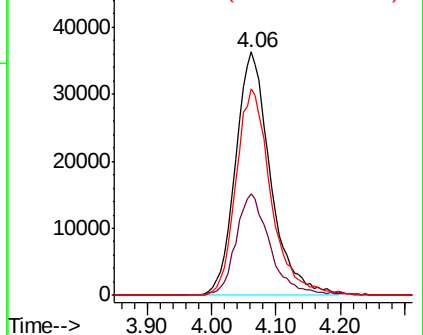
151 82.9 67.0 100.6



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: 23.775 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.00 min

Lab File: VW013606.D

Acq: 16 Oct 2019 18:11

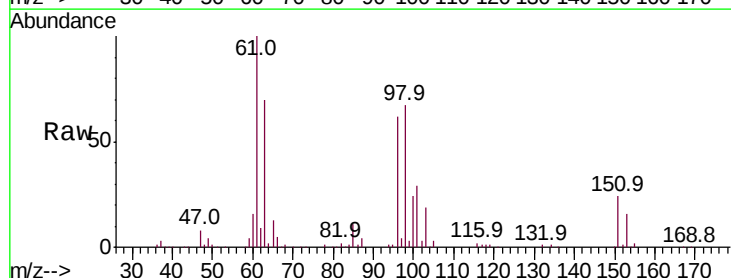
Tgt Ion: 96 Resp: 137042

Ion Ratio Lower Upper

96 100

61 161.5 111.0 206.2

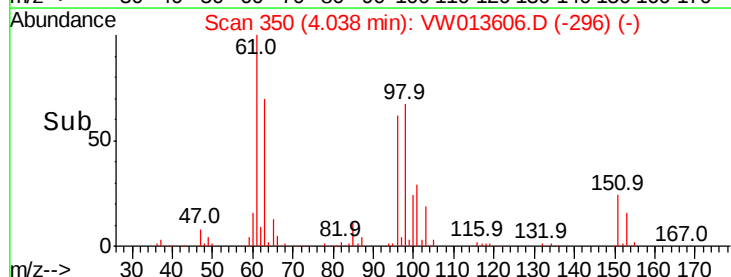
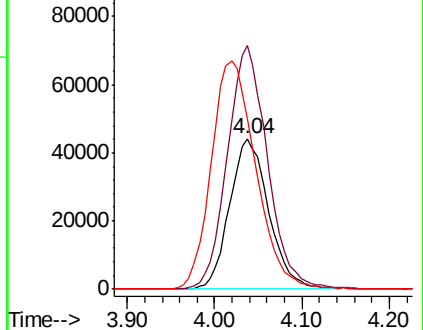
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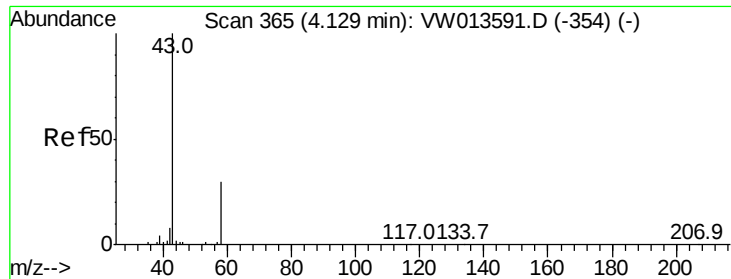


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 40.211 ug/L

RT: 4.13 min Scan# 365

Delta R.T. -0.00 min

Lab File: VW013606.D

Acq: 16 Oct 2019 18:11

Instrument :

MSVOA_W

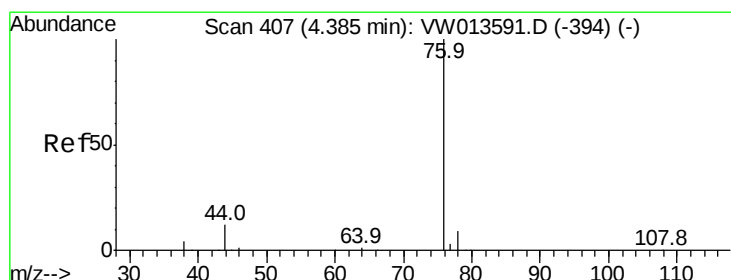
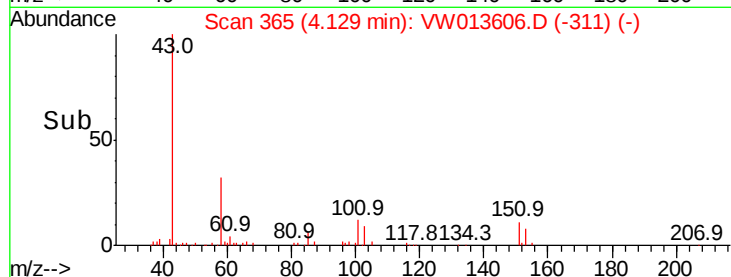
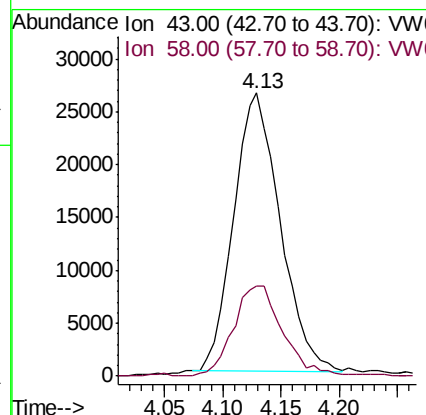
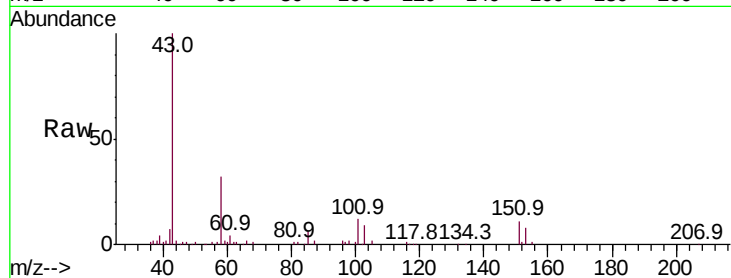
ClientSampleId :

Tot Ion: 43 Resp: 73160

Ion Ratio Lower Upper

43 100

58 34.2 0.0 67.8



#14

Carbon disulfide

Concen: 22.427 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW013606.D

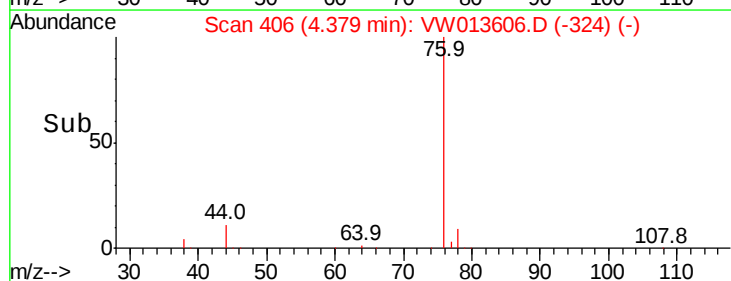
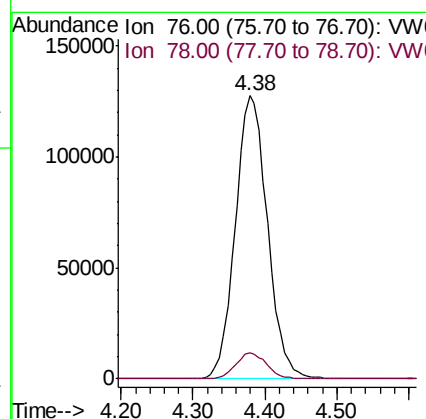
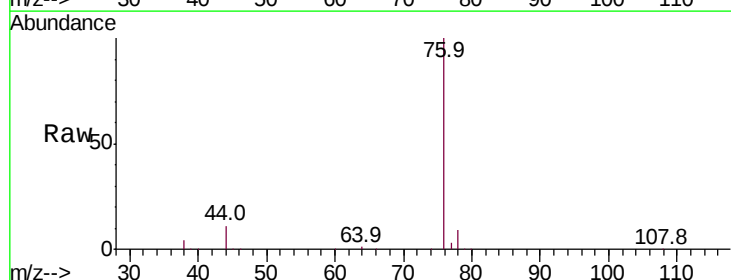
Acq: 16 Oct 2019 18:11

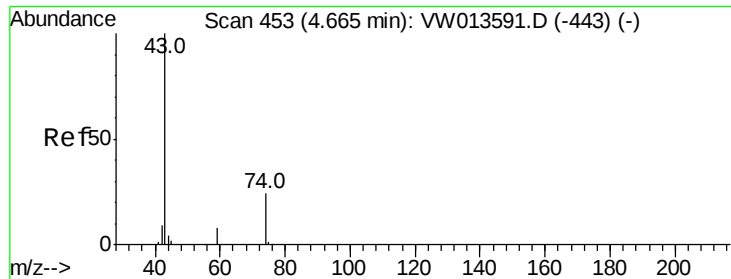
Tgt Ion: 76 Resp: 394501

Ion Ratio Lower Upper

76 100

78 9.4 7.1 10.7





#15

Methyl Acetate

Concen: 28.990 ug/L

RT: 4.67 min Scan# 454

Delta R.T. -0.00 min

Lab File: VW013606.D

Acq: 16 Oct 2019 18:11

Instrument :

MSVOA_W

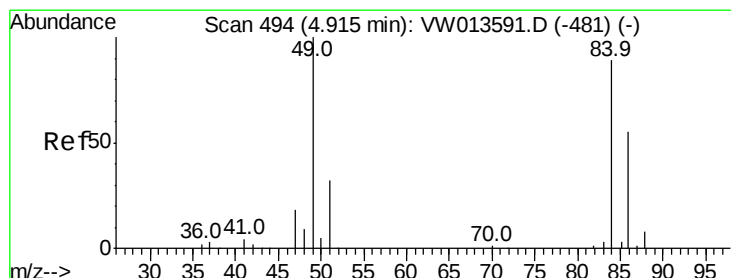
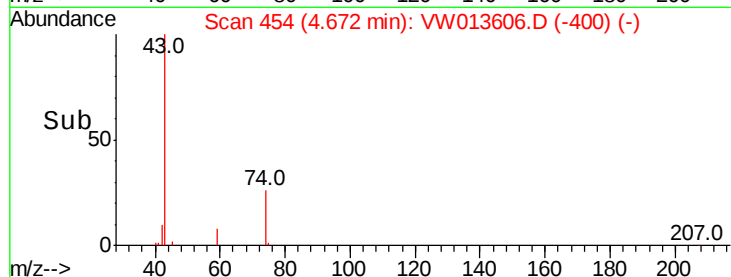
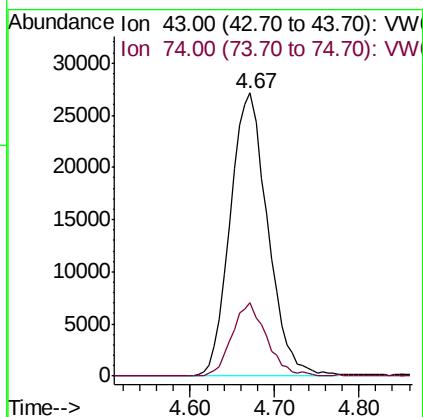
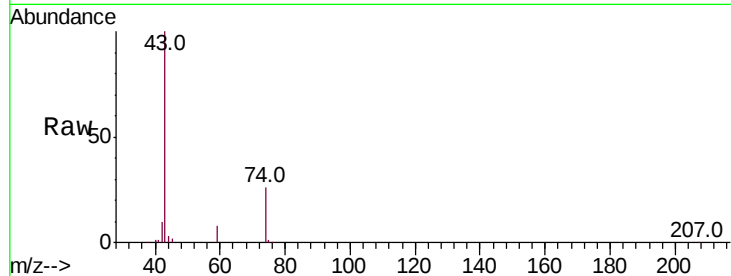
ClientSampled :

Tot Ion: 43 Resp: 82274

Ion Ratio Lower Upper

43 100

74 23.4 18.7 28.1



#16

Methylene chloride

Concen: 20.909 ug/L

RT: 4.92 min Scan# 494

Delta R.T. 0.01 min

Lab File: VW013606.D

Acq: 16 Oct 2019 18:11

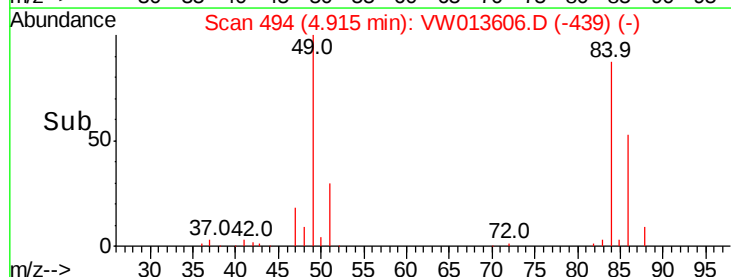
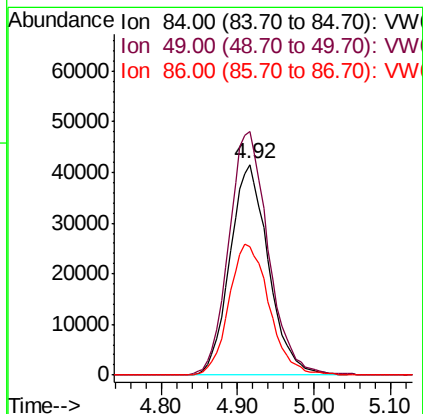
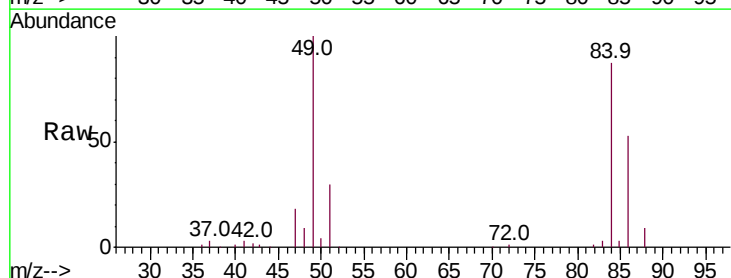
Tgt Ion: 84 Resp: 145419

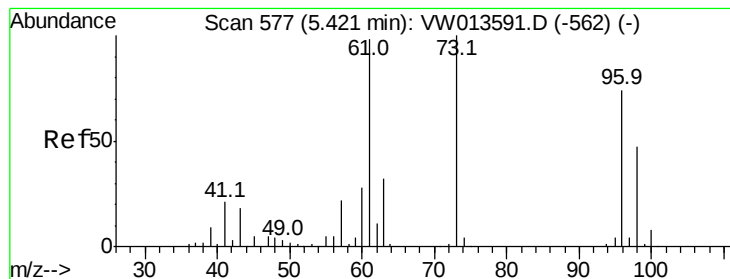
Ion Ratio Lower Upper

84 100

49 115.4 81.3 151.1

86 61.2 46.3 86.1



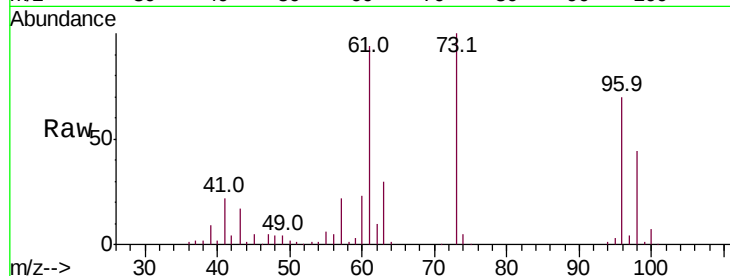


#17

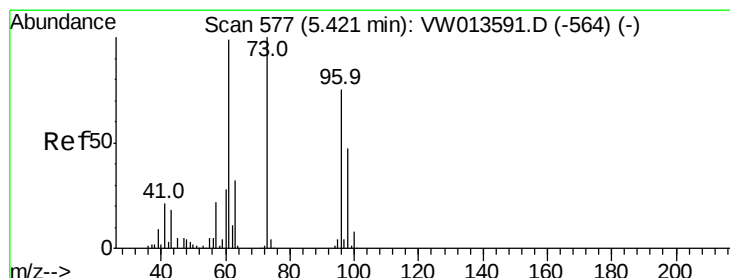
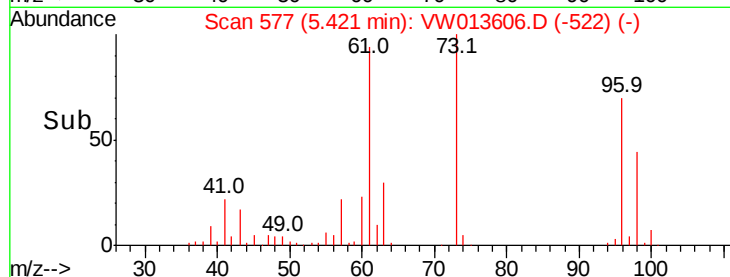
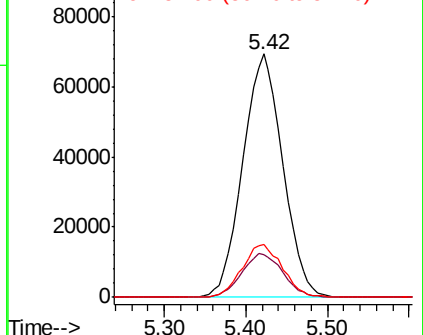
Methyl tert-butyl Ether
 Concen: 25.536 ug/L
 RT: 5.42 min Scan# 577
 Delta R.T. 0.01 min
 Lab File: VW013606.D
 Acq: 16 Oct 2019 18:11

Instrument :
 MSVOA_W
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
73	100		
43	18.6	15.0	22.4
57	21.8	18.1	27.1



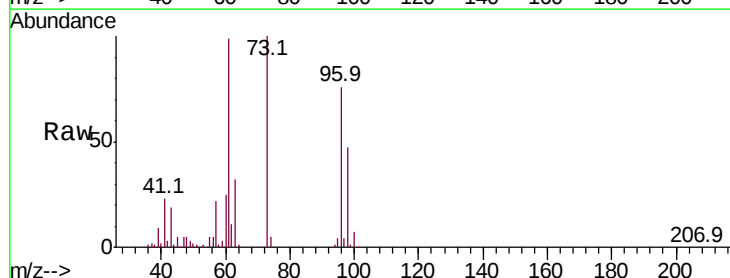
Abundance Ion 73.00 (72.70 to 73.70): VW
 Ion 43.00 (42.70 to 43.70): VW
 Ion 57.00 (56.70 to 57.70): VW



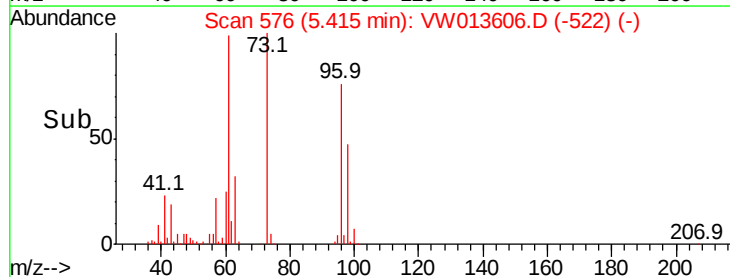
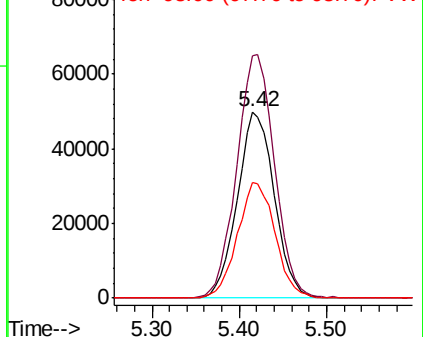
#18

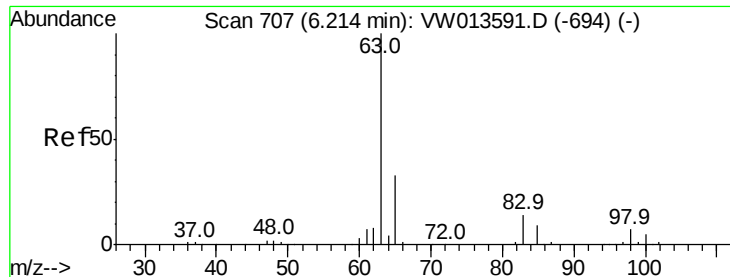
trans-1,2-Dichloroethene
 Concen: 23.891 ug/L
 RT: 5.42 min Scan# 576
 Delta R.T. -0.00 min
 Lab File: VW013606.D
 Acq: 16 Oct 2019 18:11

Tgt Ion	Ratio	Lower	Upper
96	100		
61	129.6	93.7	173.9
98	61.8	46.1	85.7



Abundance Ion 96.00 (95.70 to 96.70): VW
 Ion 61.00 (60.70 to 61.70): VW
 Ion 98.00 (97.70 to 98.70): VW

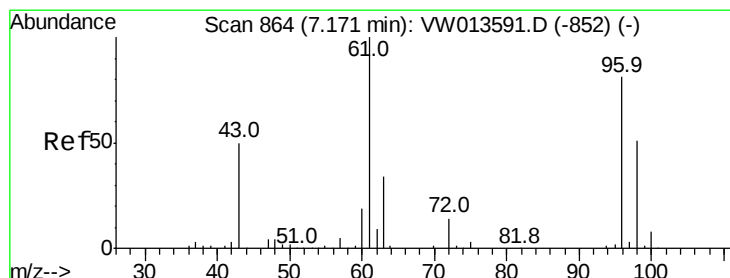
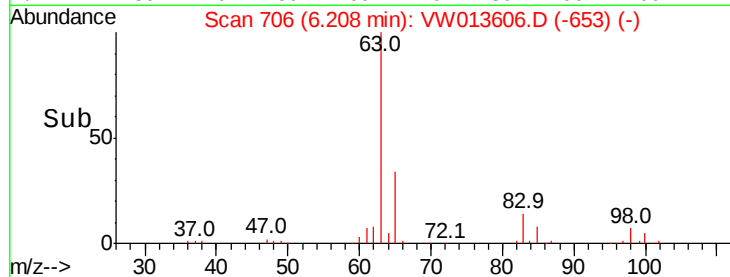
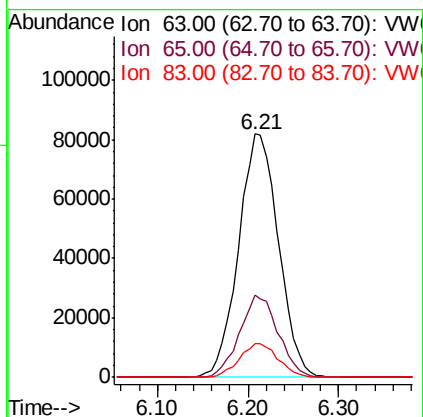
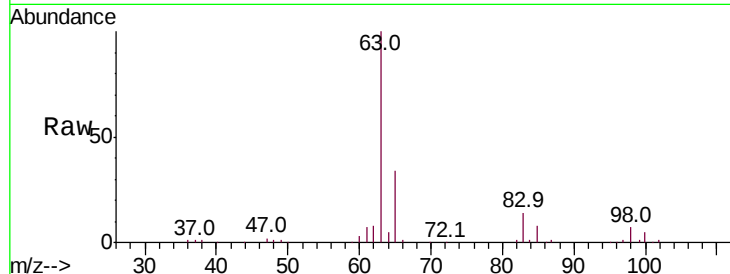




#19
 1,1-Dichloroethane
 Concen: 24.173 ug/L
 RT: 6.21 min Scan# 706
 Delta R.T. -0.01 min
 Lab File: VW013606.D
 Acq: 16 Oct 2019 18:11

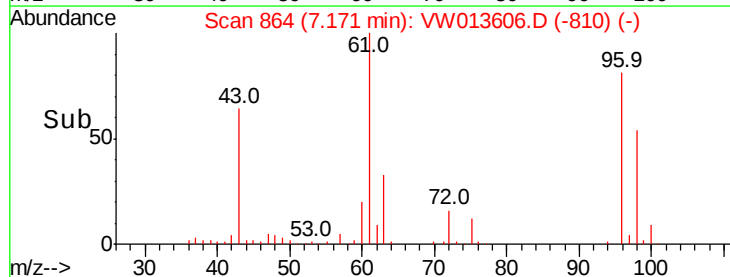
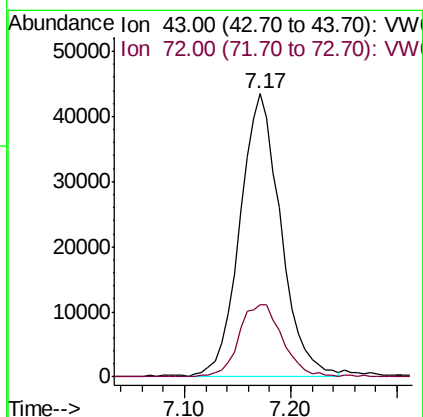
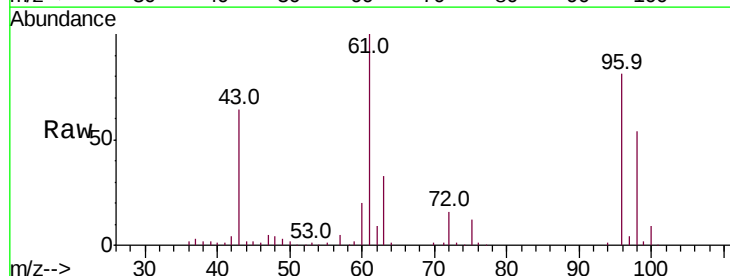
Instrument :
 MSVOA_W
 ClientSampled :

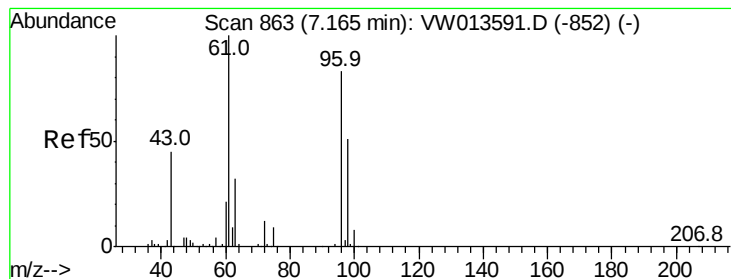
Tot Ion: 63 Resp: 249634
 Ion Ratio Lower Upper
 63 100
 65 34.0 21.6 40.0
 83 13.8 9.0 16.6



#21
 2-Butanone
 Concen: 52.036 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. -0.00 min
 Lab File: VW013606.D
 Acq: 16 Oct 2019 18:11

Tgt Ion: 43 Resp: 115820
 Ion Ratio Lower Upper
 43 100
 72 27.4 13.5 40.4



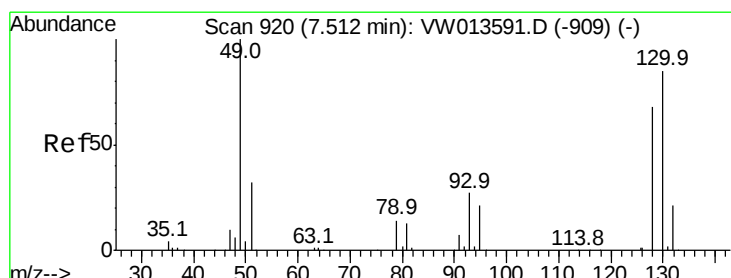
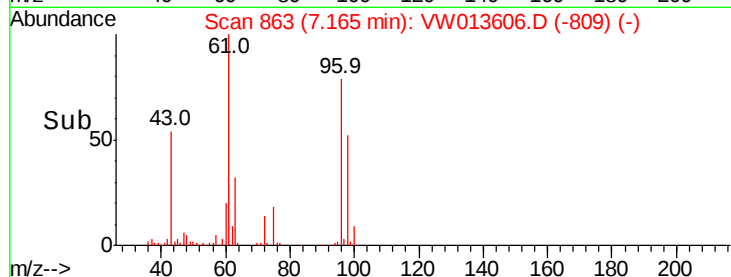
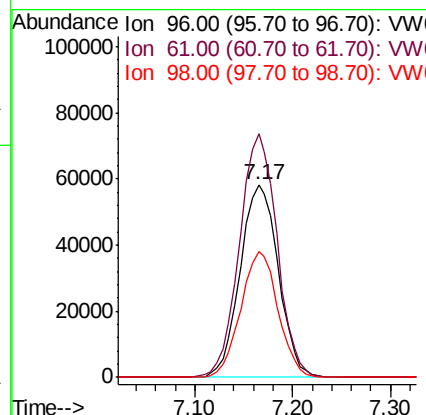
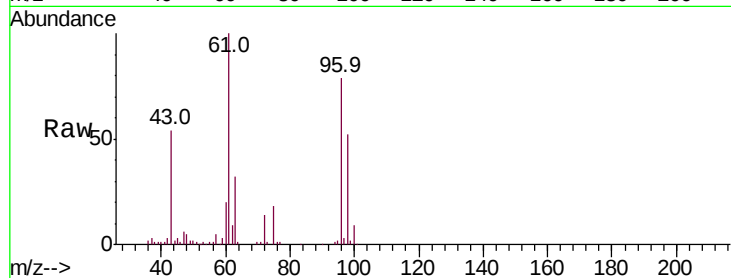


#22

cis-1,2-Dichloroethene
Concen: 23.958 ug/L
RT: 7.17 min Scan# 863
Delta R.T. -0.00 min
Lab File: VW013606.D
Acq: 16 Oct 2019 18:11

Instrument :
MSVOA_W
ClientSampled :

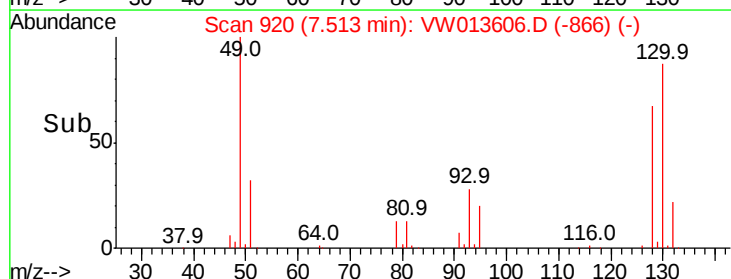
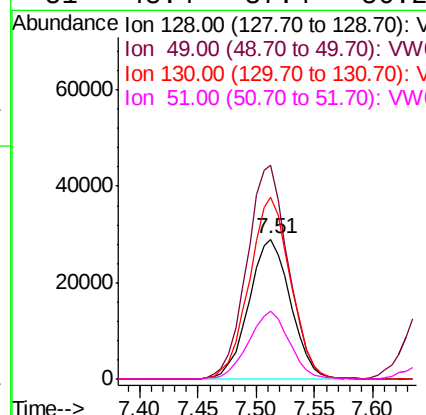
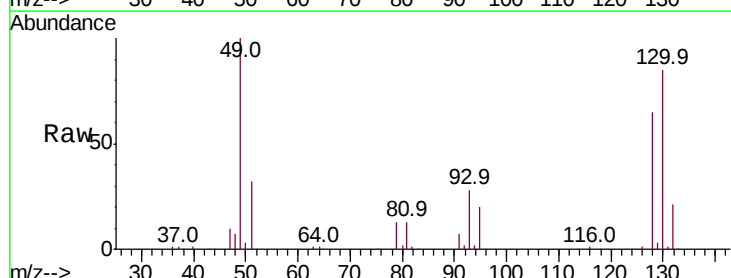
Tot Ion: 96 Resp: 157610
Ion Ratio Lower Upper
96 100
61 126.5 86.0 159.8
98 65.5 44.4 82.5

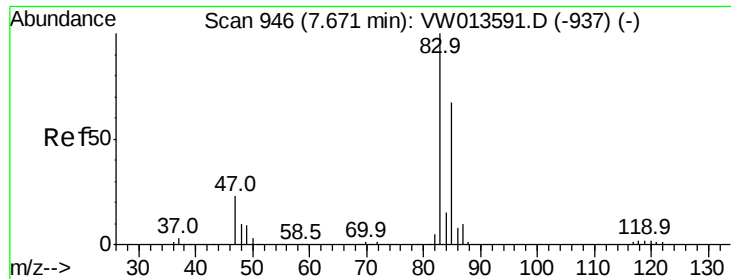


#23

Bromochloromethane
Concen: 24.470 ug/L
RT: 7.51 min Scan# 920
Delta R.T. -0.00 min
Lab File: VW013606.D
Acq: 16 Oct 2019 18:11

Tgt Ion: 128 Resp: 72082
Ion Ratio Lower Upper
128 100
49 153.1 108.0 200.6
130 130.2 89.4 166.0
51 48.4 37.4 56.2





#25

Chloroform

Concen: 24.610 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.00 min

Lab File: VW013606.D

Acq: 16 Oct 2019 18:11

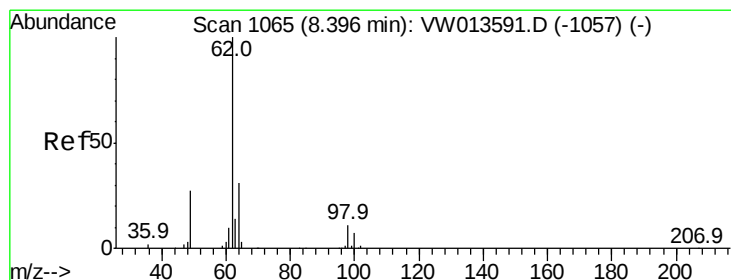
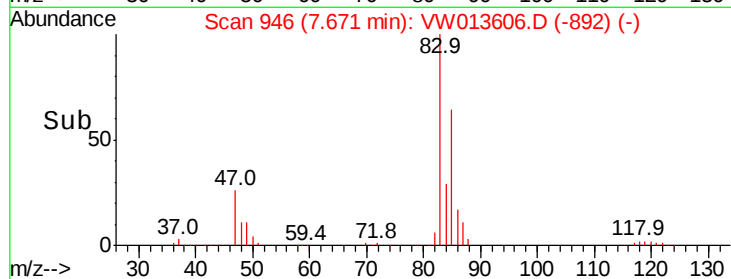
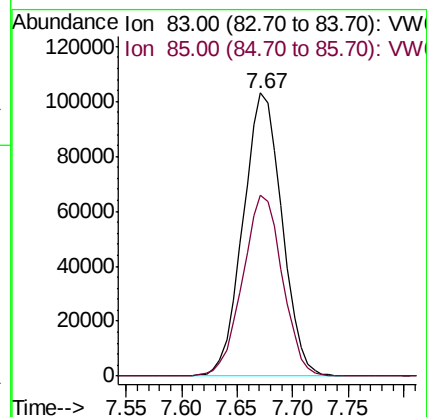
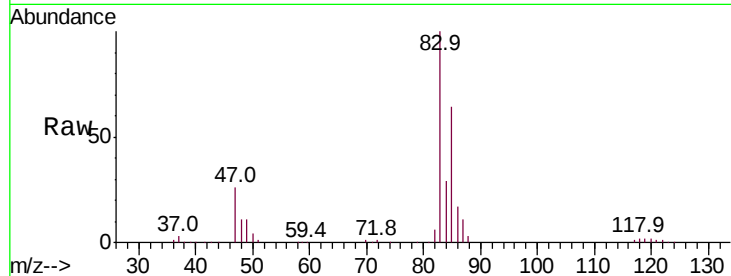
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 83 Resp: 250715

Ion Ratio Lower Upper

83 100

85 65.3 46.1 85.5



#27

1,2-Dichloroethane

Concen: 25.974 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW013606.D

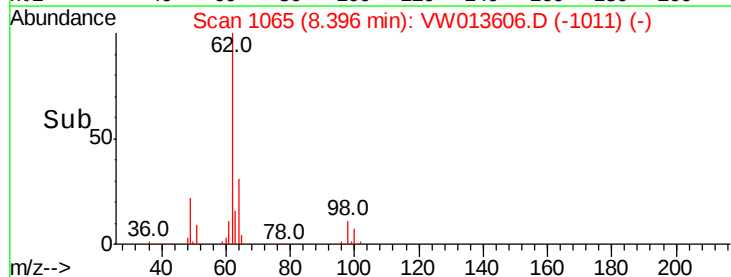
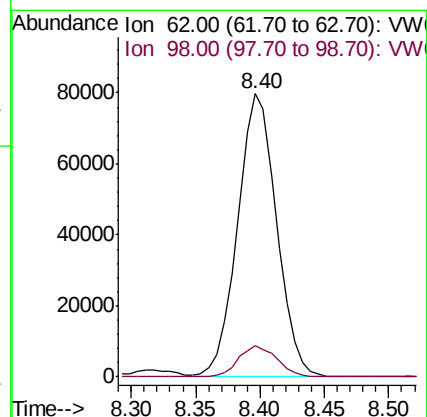
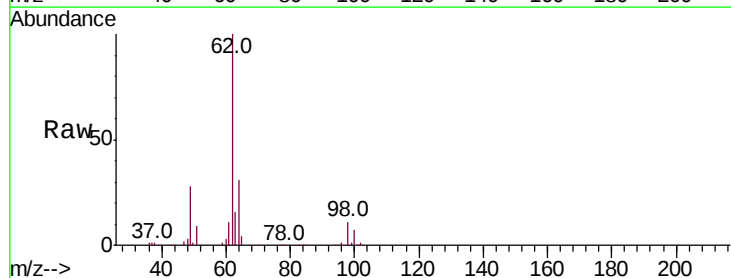
Acq: 16 Oct 2019 18:11

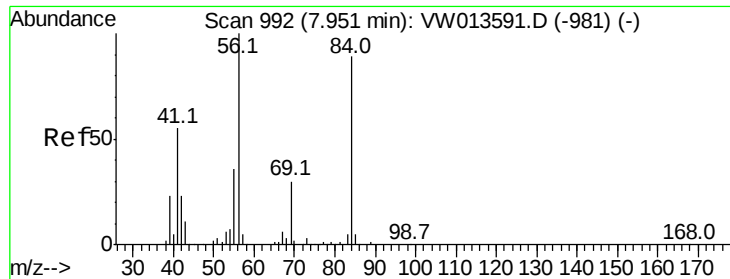
Tgt Ion: 62 Resp: 167366

Ion Ratio Lower Upper

62 100

98 11.2 9.0 13.4

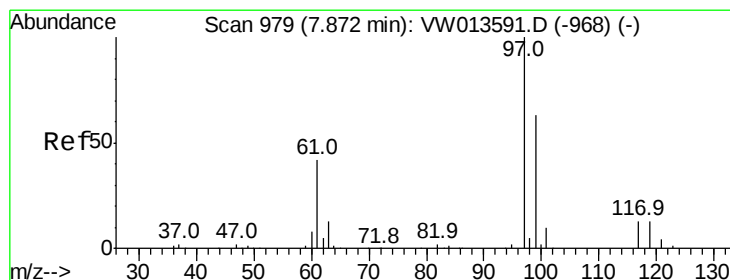
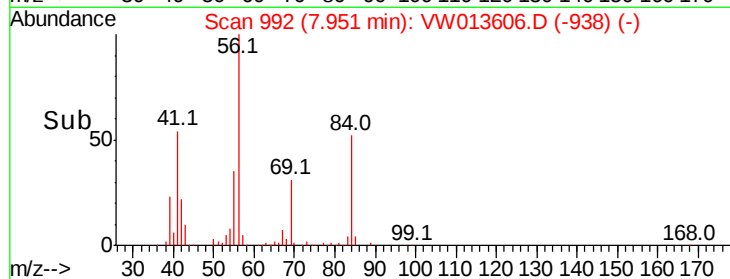
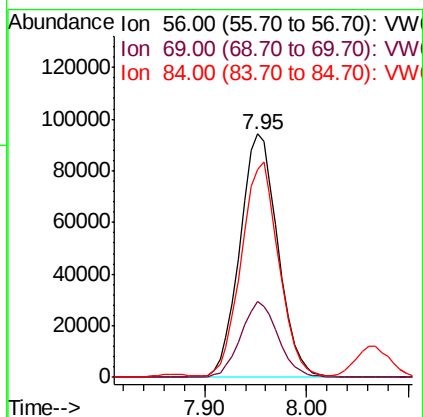
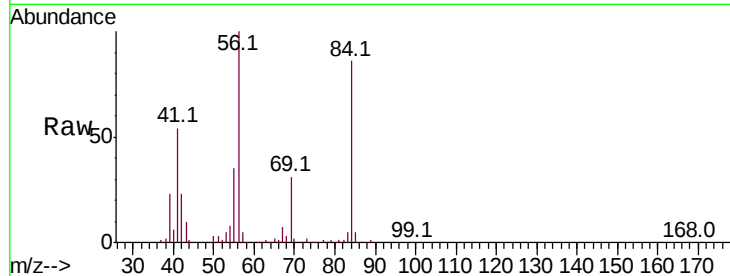




#30
Cyclohexane
Concen: 22.318 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW013606.D
Acq: 16 Oct 2019 18:11

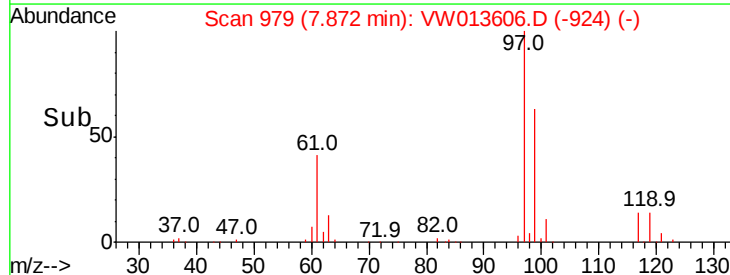
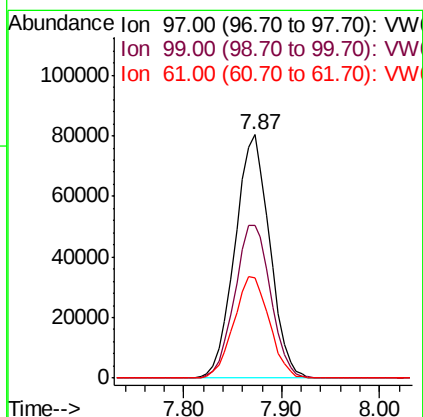
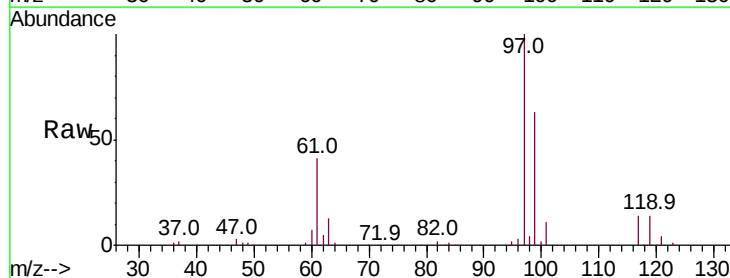
Instrument :
MSVOA_W
ClientSampled :

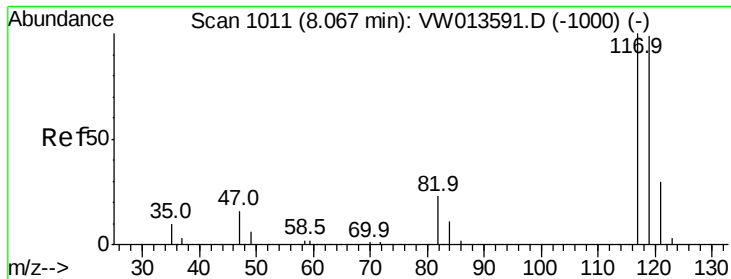
Tot Ion: 56 Resp: 244457
Ion Ratio Lower Upper
56 100
69 30.5 24.7 37.1
84 87.7 70.4 105.6



#31
1,1,1-Trichloroethane
Concen: 23.590 ug/L
RT: 7.87 min Scan# 979
Delta R.T. 0.01 min
Lab File: VW013606.D
Acq: 16 Oct 2019 18:11

Tgt Ion: 97 Resp: 197931
Ion Ratio Lower Upper
97 100
99 65.2 51.8 77.8
61 42.7 33.7 50.5





#32

Carbon tetrachloride

Concen: 23.538 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW013606.D

Acq: 16 Oct 2019 18:11

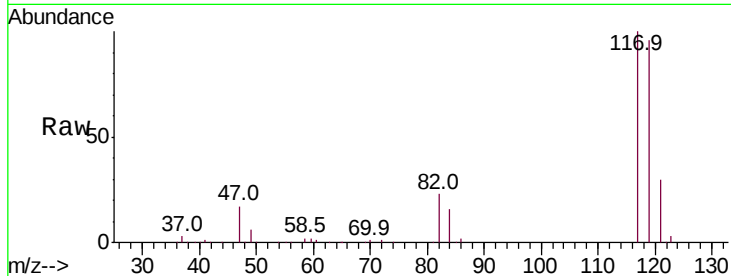
Instrument :
MSVOA_W
ClientSampled :

Tot Ion:117 Resp: 189440

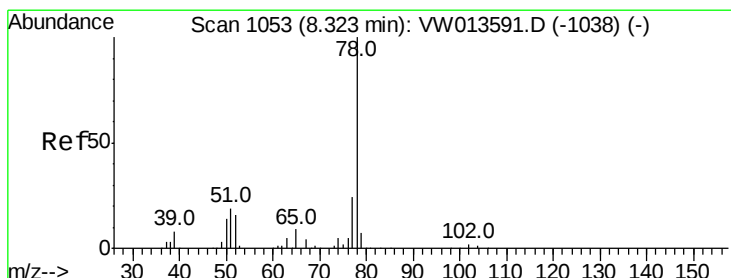
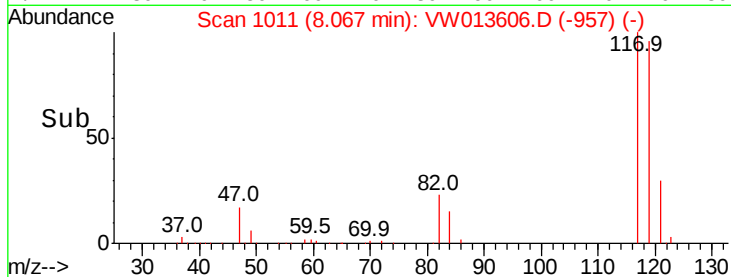
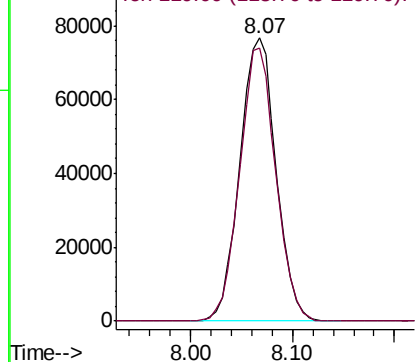
Ion Ratio Lower Upper

117 100

119 95.7 76.1 114.1



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 23.443 ug/L

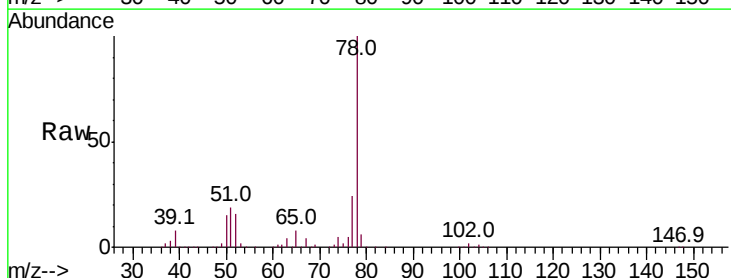
RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

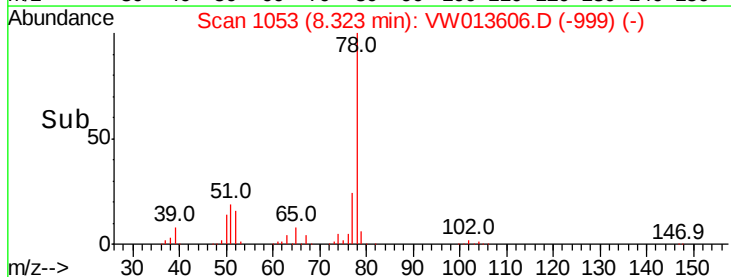
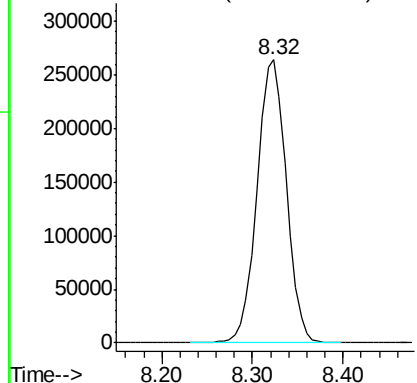
Lab File: VW013606.D

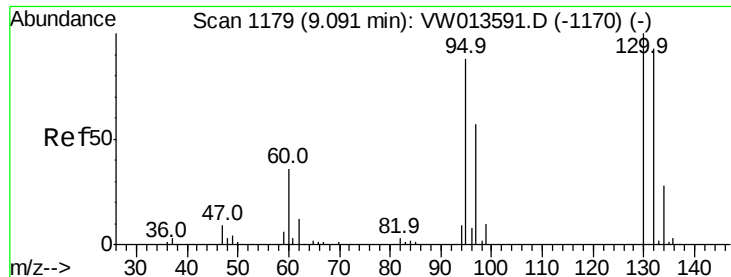
Acq: 16 Oct 2019 18:11

Tgt Ion: 78 Resp: 589987



Abundance Ion 78.00 (77.70 to 78.70): VW

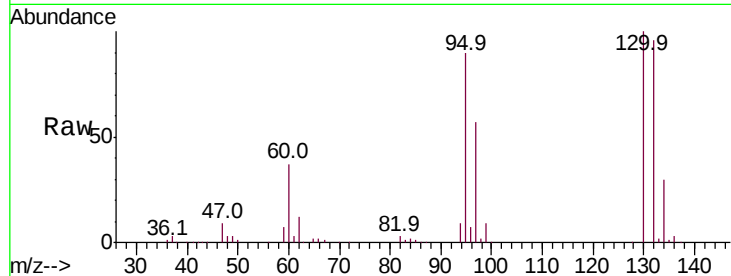




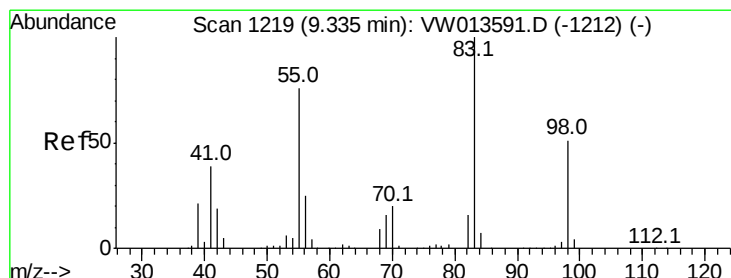
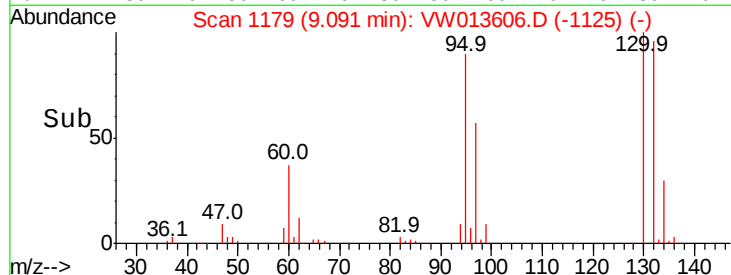
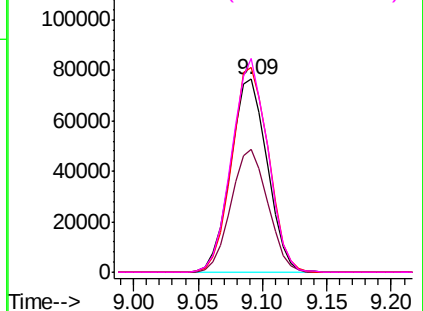
#35
 Trichloroethene
 Concen: 23.165 ug/L
 RT: 9.09 min Scan# 1179
 Delta R.T. -0.00 min
 Lab File: VW013606.D
 Acq: 16 Oct 2019 18:11

Instrument :
 MSVOA_W
 ClientSampled :

Tot Ion: 95 Resp: 152072
 Ion Ratio Lower Upper
 95 100
 97 63.7 45.1 83.7
 132 105.9 73.6 136.8
 130 108.0 76.3 141.7

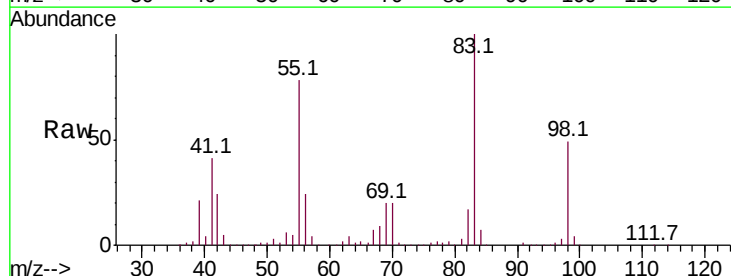


Abundance Ion 95.00 (94.70 to 95.70): VW
 Ion 97.00 (96.70 to 97.70): VW
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

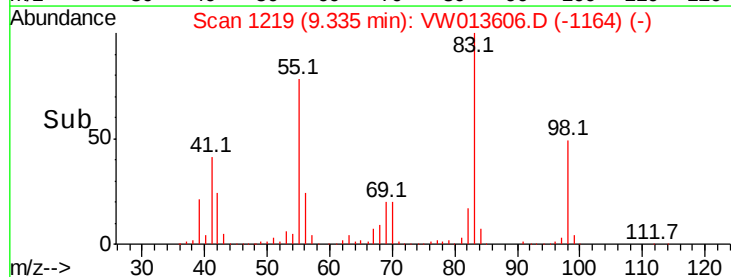
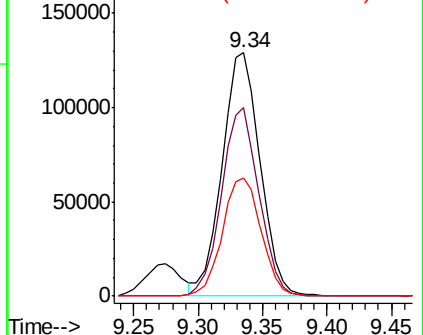


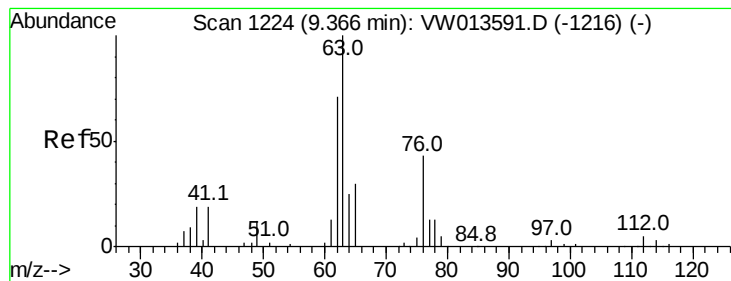
#36
 Methylcyclohexane
 Concen: 22.308 ug/L
 RT: 9.34 min Scan# 1219
 Delta R.T. 0.01 min
 Lab File: VW013606.D
 Acq: 16 Oct 2019 18:11

Tgt Ion: 83 Resp: 266314
 Ion Ratio Lower Upper
 83 100
 55 76.2 60.4 90.6
 98 49.6 39.3 58.9



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





#40

1,2-Dichloropropane

Concen: 23.795 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW013606.D

Acq: 16 Oct 2019 18:11

Instrument :

MSVOA_W

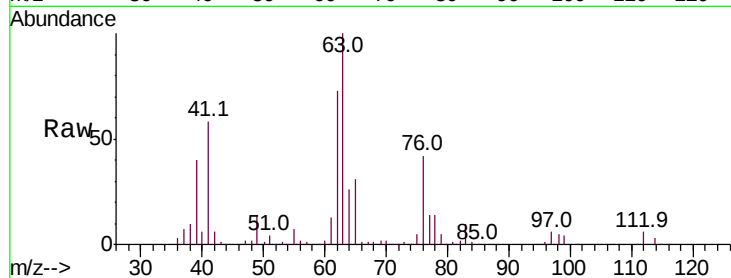
ClientSampleId :

Tot Ion: 63 Resp: 144264

Ion Ratio Lower Upper

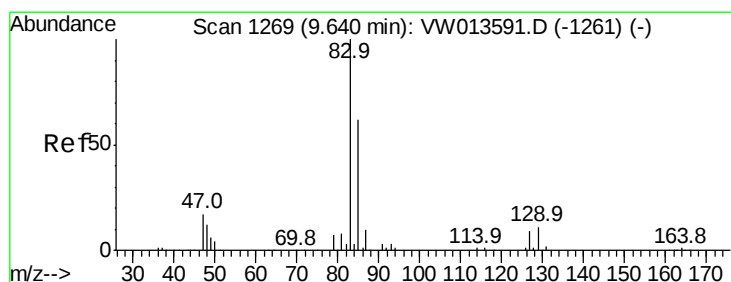
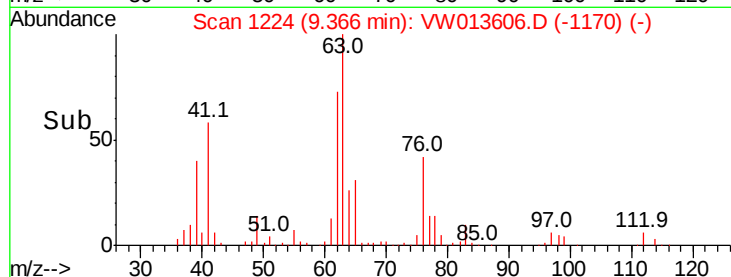
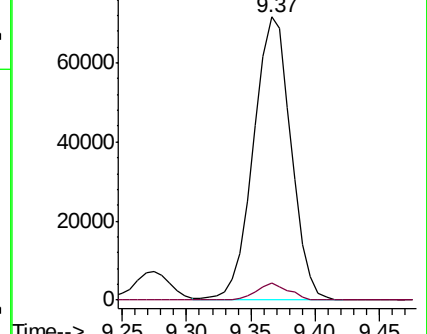
63 100

112 5.2 3.8 5.8



Abundance Ion 63.00 (62.70 to 63.70): VW

Ion 112.00 (111.70 to 112.70): V



#41

Bromodichloromethane

Concen: 24.317 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW013606.D

Acq: 16 Oct 2019 18:11

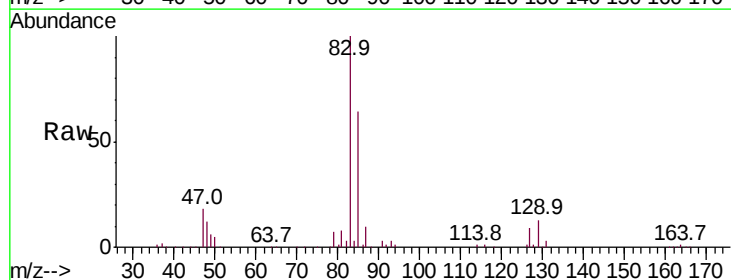
Tgt Ion: 83 Resp: 181080

Ion Ratio Lower Upper

83 100

85 63.5 45.1 83.9

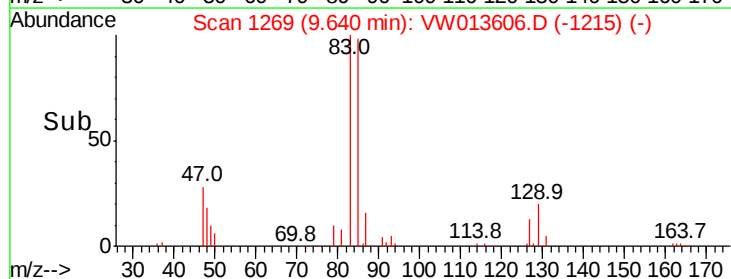
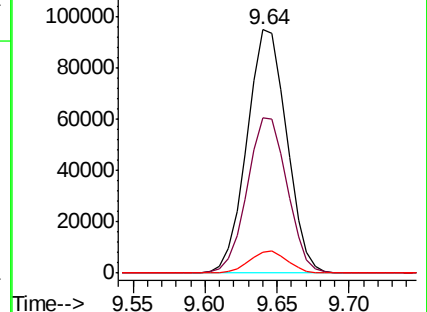
127 8.6 7.1 10.7

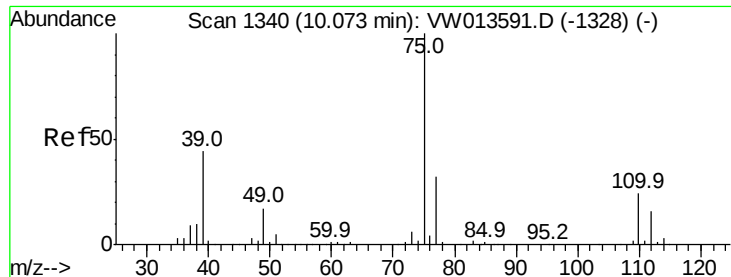


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): V





#42

cis-1,3-Dichloropropene

Concen: 23.849 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW013606.D

Acq: 16 Oct 2019 18:11

Instrument :

MSVOA_W

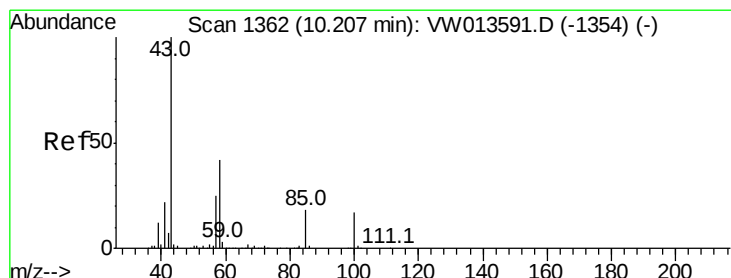
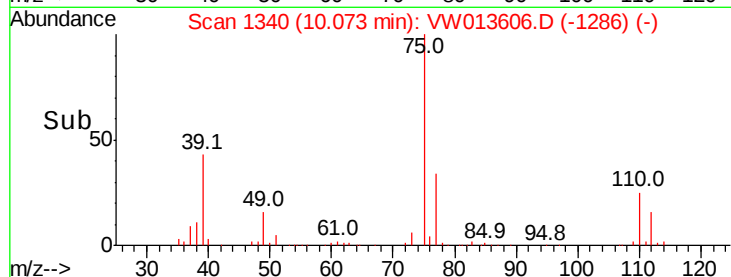
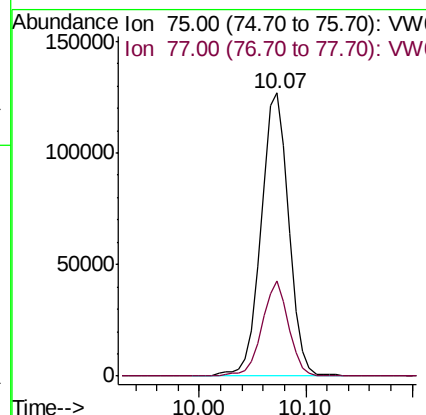
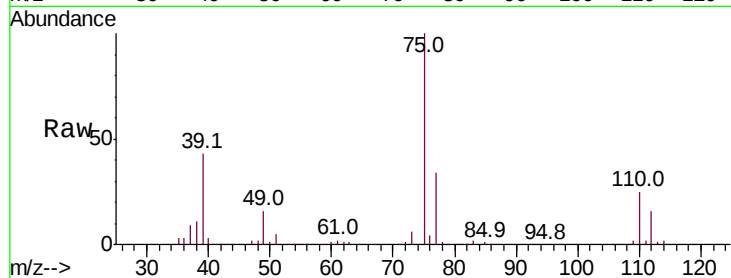
ClientSampleId :

Tot Ion: 75 Resp: 231963

Ion Ratio Lower Upper

75 100

77 33.8 21.6 40.2



#43

4-Methyl-2-pentanone

Concen: 55.982 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW013606.D

Acq: 16 Oct 2019 18:11

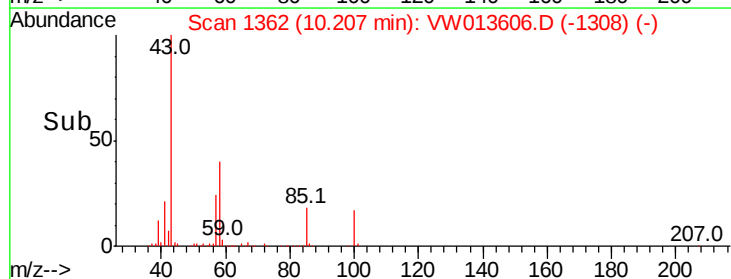
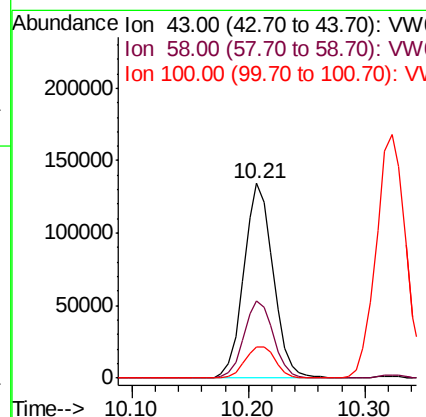
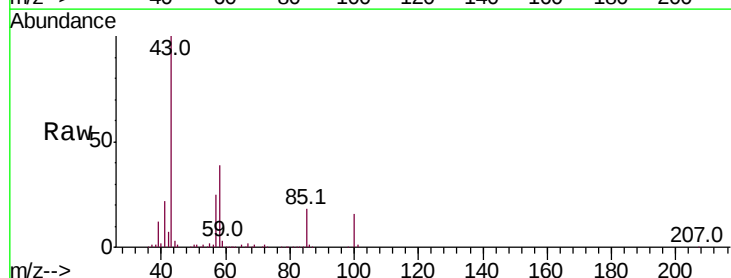
Tgt Ion: 43 Resp: 236810

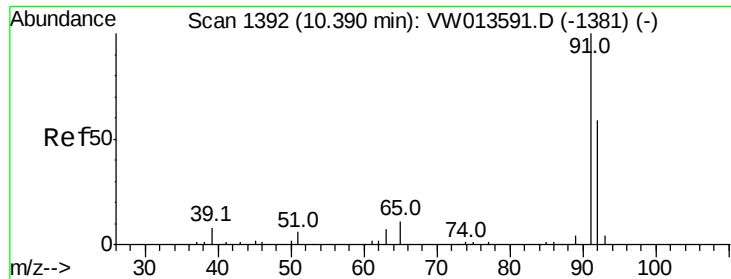
Ion Ratio Lower Upper

43 100

58 39.9 32.0 48.0

100 16.9 13.7 20.5





#44

Toluene

Concen: 23.668 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW013606.D

Acq: 16 Oct 2019 18:11

Instrument :

MSVOA_W

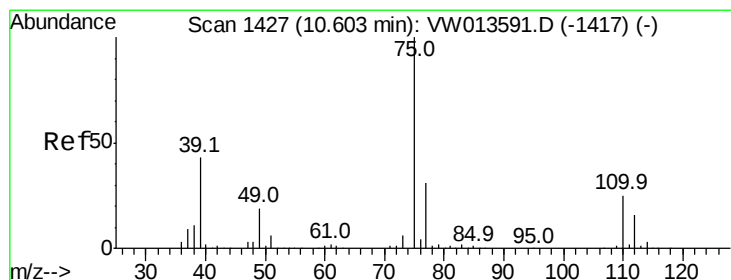
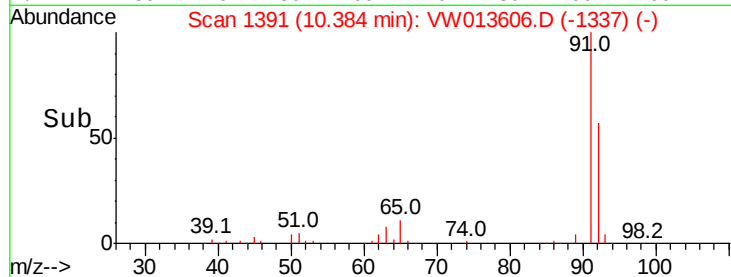
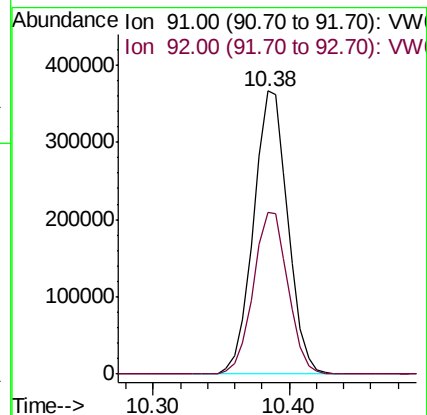
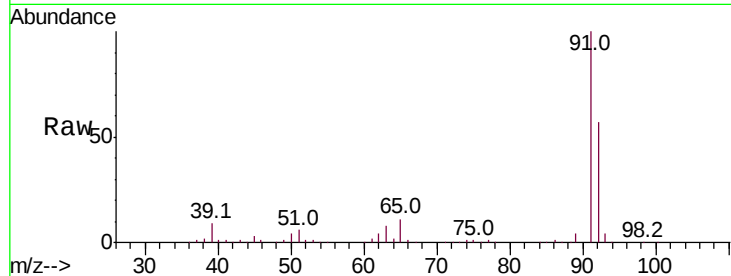
ClientSampled :

Tot Ion: 91 Resp: 645521

Ion Ratio Lower Upper

91 100

92 57.3 40.0 74.4



#45

trans-1,3-Dichloropropene

Concen: 24.973 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW013606.D

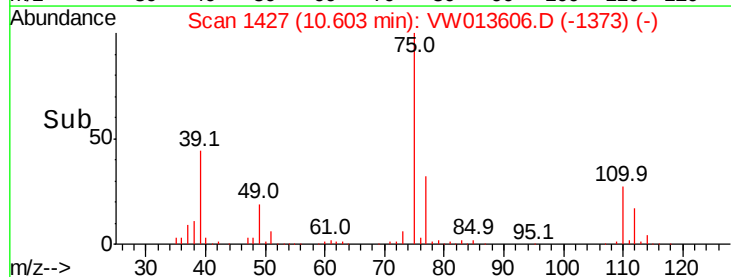
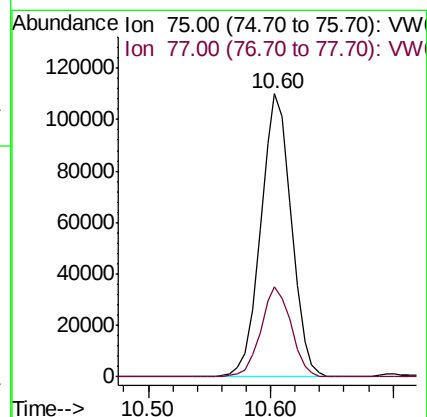
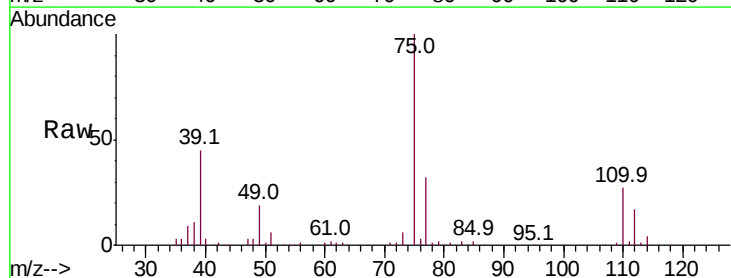
Acq: 16 Oct 2019 18:11

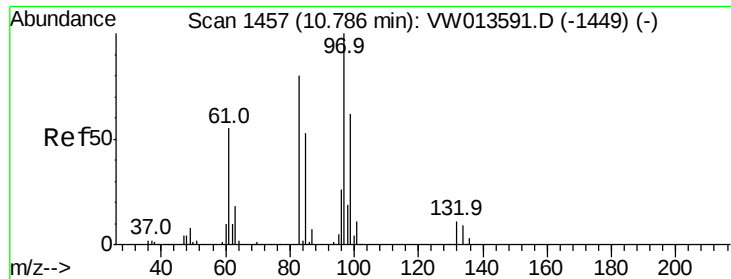
Tgt Ion: 75 Resp: 191797

Ion Ratio Lower Upper

75 100

77 32.0 23.0 42.6





#46

1,1,2-Trichloroethane

Concen: 25.569 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW013606.D

Acq: 16 Oct 2019 18:11

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion: 97 Resp: 117675

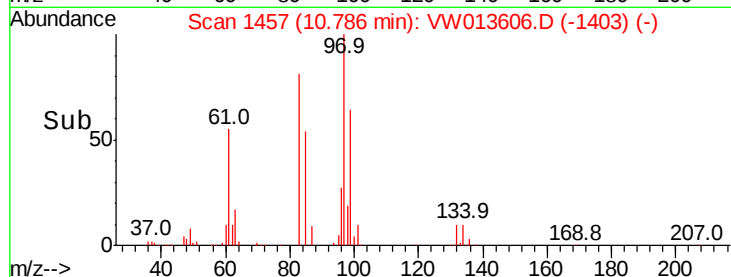
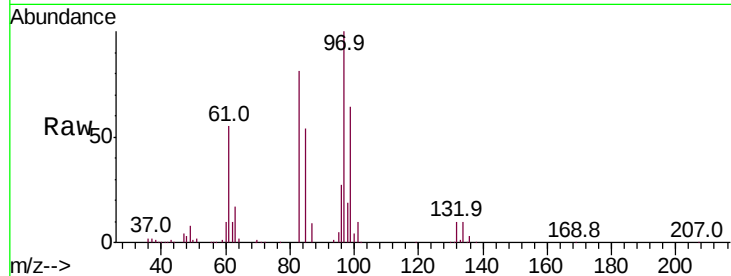
Ion	Ratio	Lower	Upper
97	100		
83	81.0	57.5	106.9
85	54.4	36.8	68.4
99	63.7	44.0	81.6

97 100

83 81.0 57.5 106.9

85 54.4 36.8 68.4

99 63.7 44.0 81.6



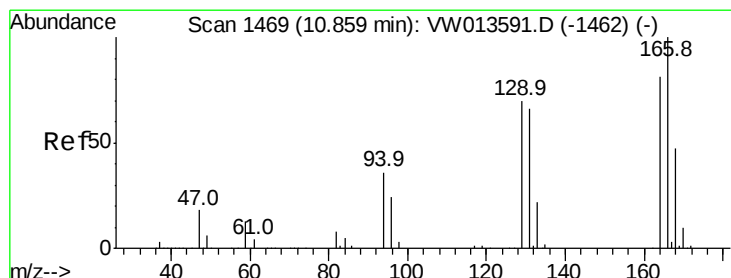
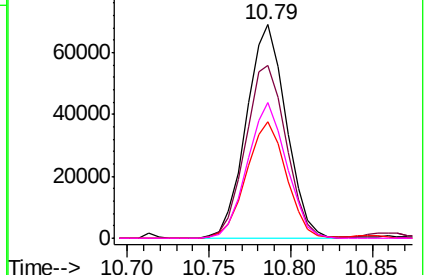
Abundance

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: 23.121 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW013606.D

Acq: 16 Oct 2019 18:11

Tgt Ion: 164 Resp: 138331

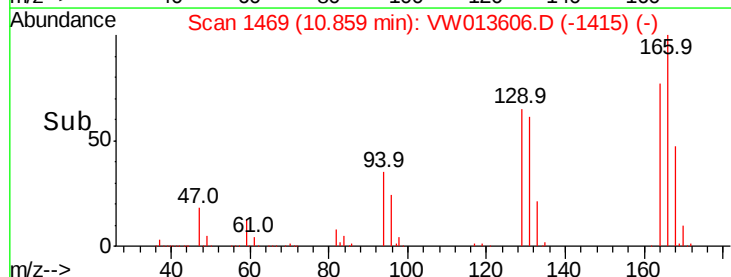
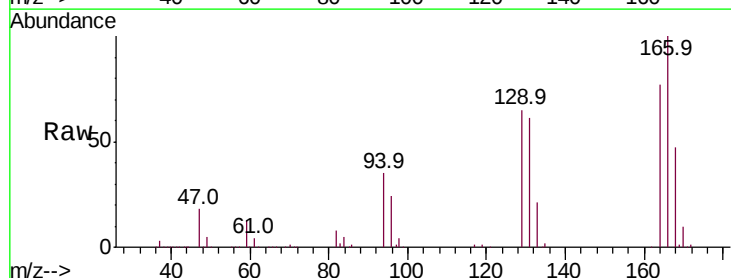
Ion	Ratio	Lower	Upper
164	100		
129	85.0	60.2	111.8
131	79.6	57.0	105.9
166	130.4	91.2	169.4

164 100

129 85.0 60.2 111.8

131 79.6 57.0 105.9

166 130.4 91.2 169.4



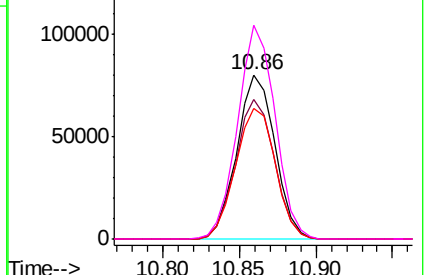
Abundance

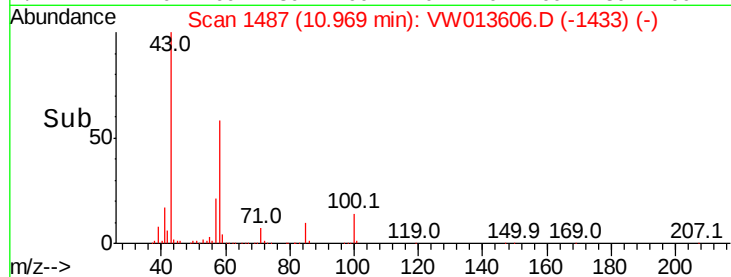
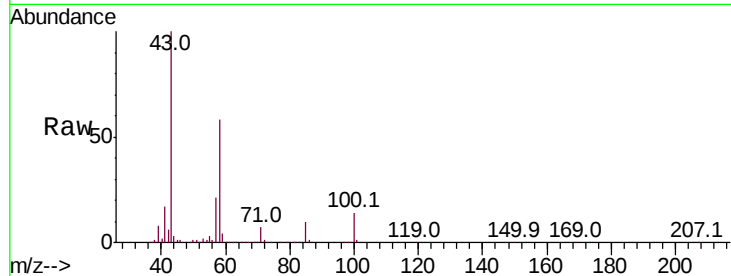
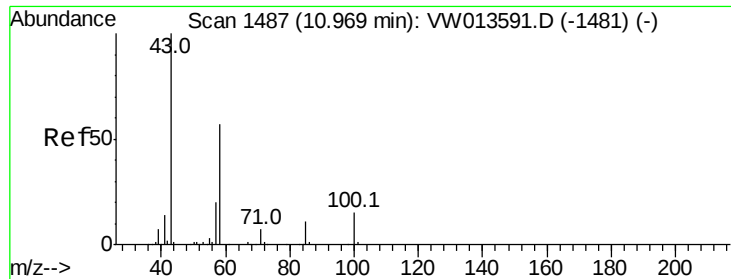
Ion 164.00 (163.70 to 164.70): V

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

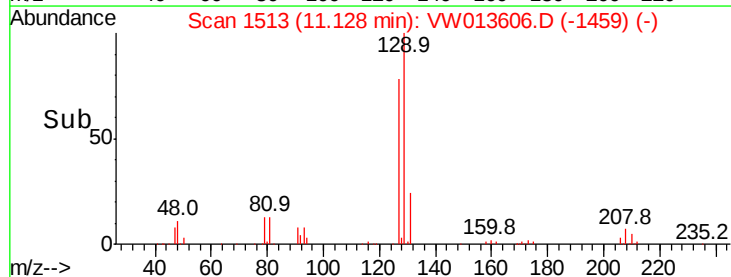
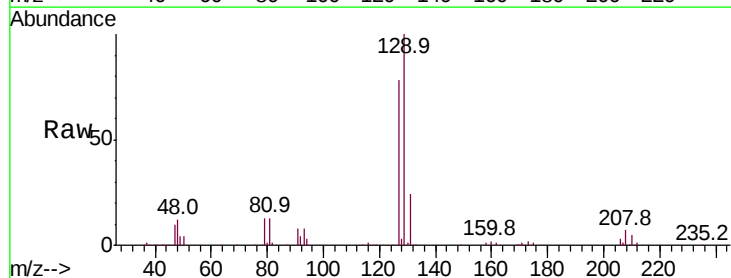
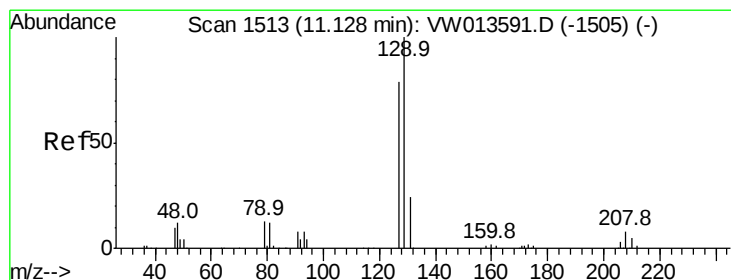
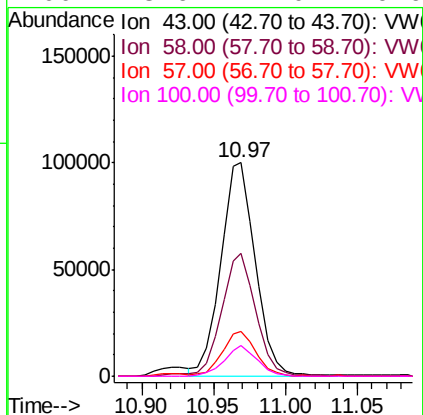




#49
2-Hexanone
Concen: 54.805 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW013606.D
Acq: 16 Oct 2019 18:11

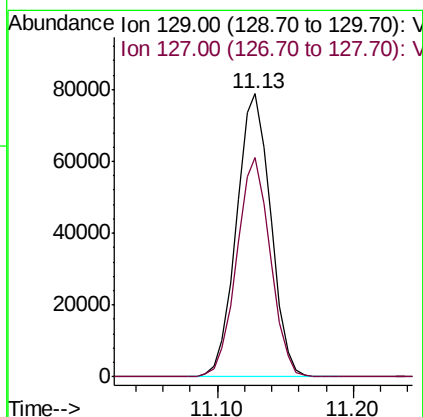
Instrument :
MSVOA_W
ClientSampleId :

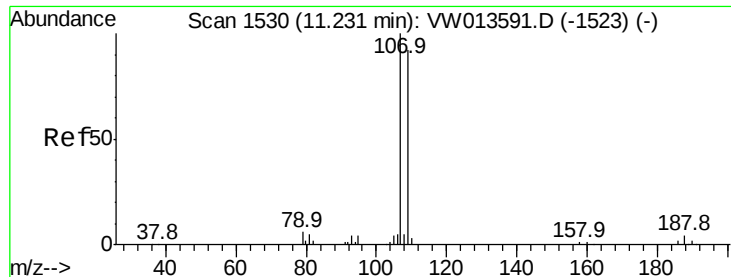
Tot Ion: 43 Resp: 168491
Ion Ratio Lower Upper
43 100
58 55.9 45.2 67.8
57 20.0 15.8 23.8
100 13.6 11.0 16.6



#50
Dibromochloromethane
Concen: 25.566 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW013606.D
Acq: 16 Oct 2019 18:11

Tgt Ion:129 Resp: 138531
Ion Ratio Lower Upper
129 100
127 77.7 54.7 101.5

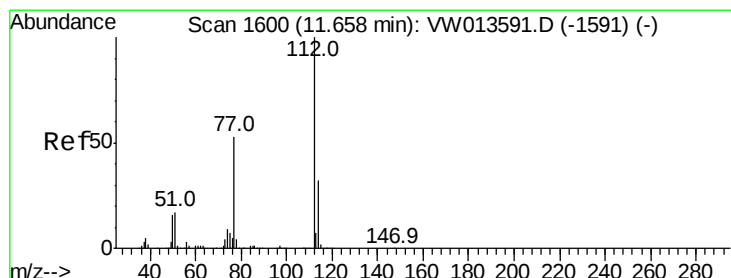
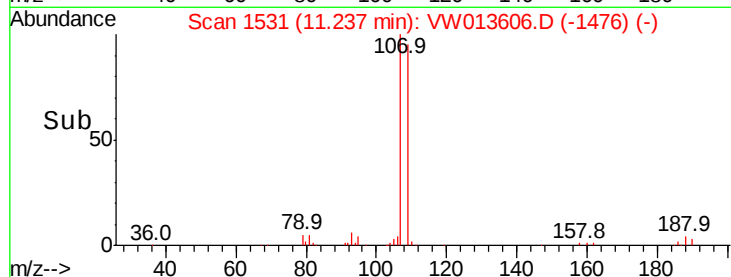
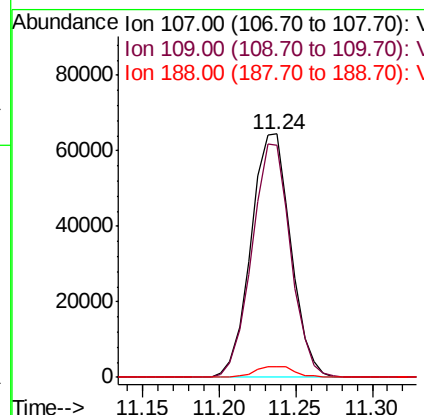
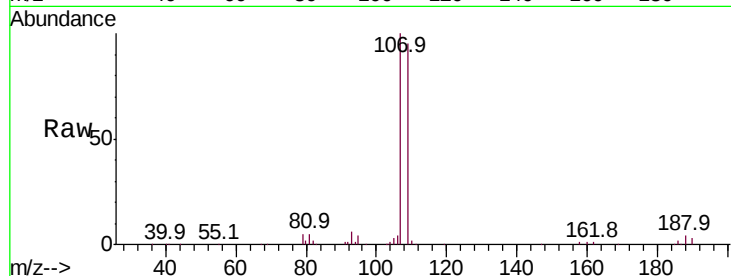




#51
1,2-Dibromoethane
Concen: 25.910 ug/L
RT: 11.24 min Scan# 1531
Delta R.T. 0.01 min
Lab File: VW013606.D
Acq: 16 Oct 2019 18:11

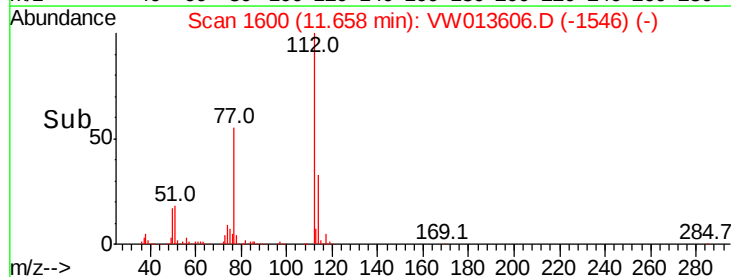
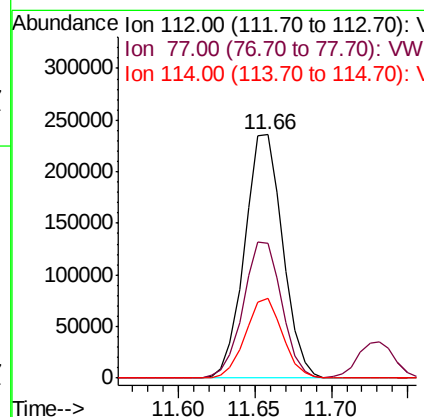
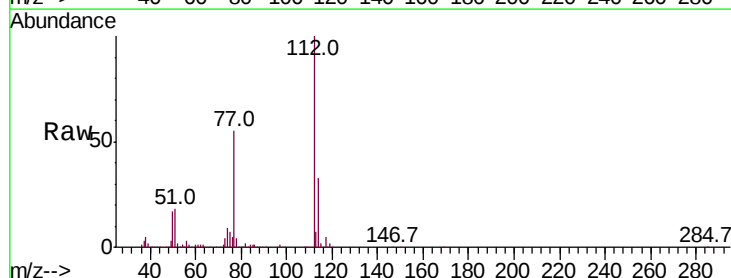
Instrument :
MSVOA_W
ClientSampleId :

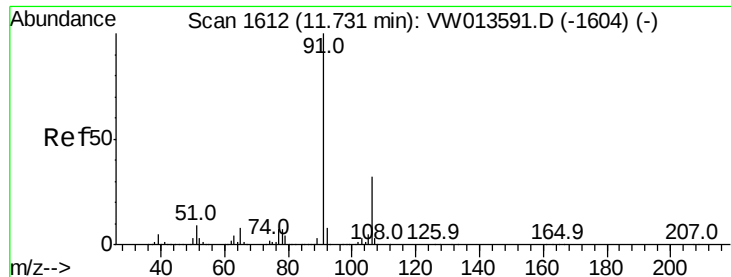
Tot Ion	Ratio	Lower	Upper
107	100		
109	95.3	65.5	121.7
188	4.3	3.6	5.4



#52
Chlorobenzene
Concen: 23.609 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW013606.D
Acq: 16 Oct 2019 18:11

Tgt Ion	Ratio	Lower	Upper
112	100		
77	55.5	44.5	66.7
114	32.6	22.7	42.3

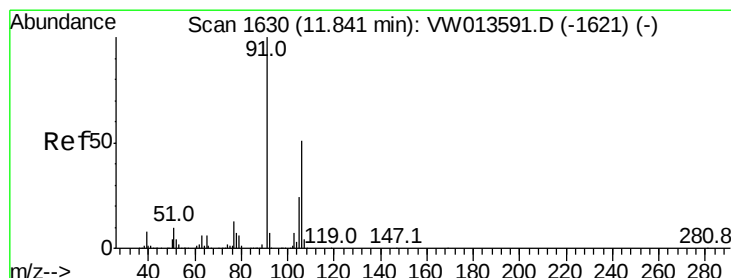
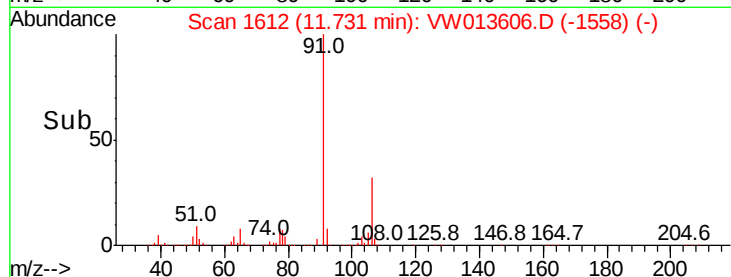
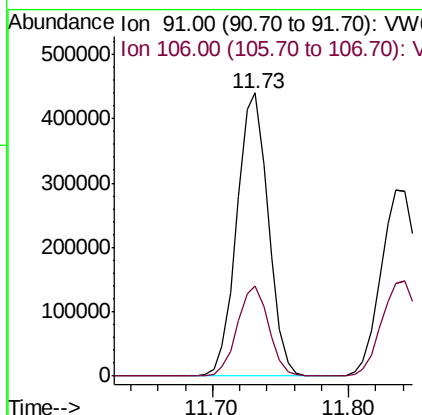
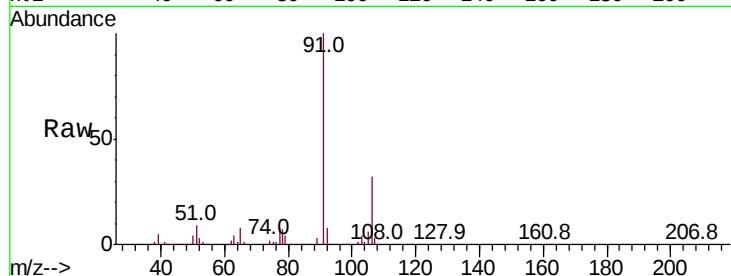




#53
Ethylbenzene
Concen: 23.458 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW013606.D
Acq: 16 Oct 2019 18:11

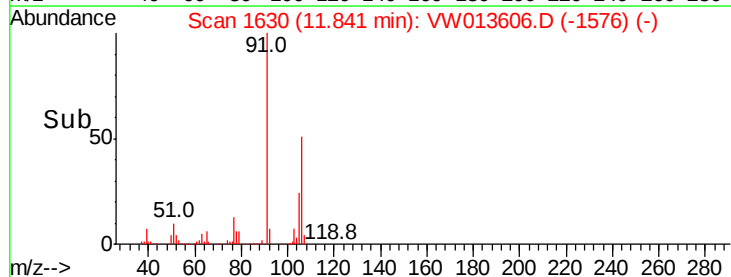
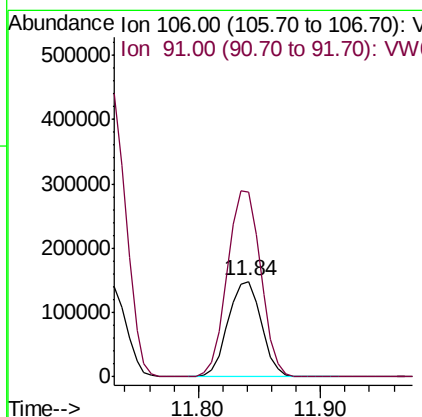
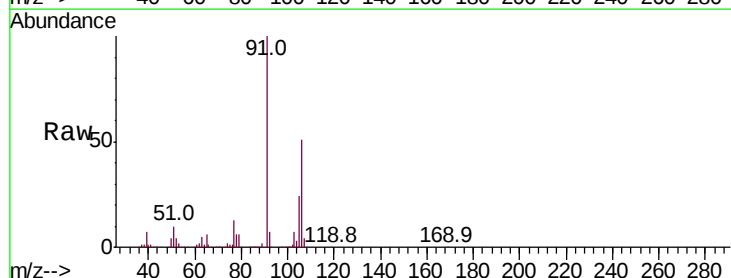
Instrument :
MSVOA_W
ClientSampleId :

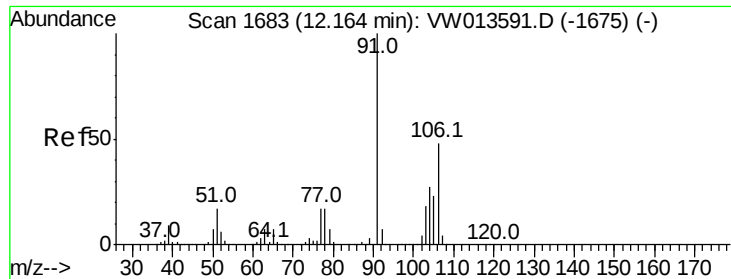
Tot Ion: 91 Resp: 708222
Ion Ratio Lower Upper
91 100
106 32.0 21.5 39.9



#54
m,p-Xylene
Concen: 23.669 ug/L
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW013606.D
Acq: 16 Oct 2019 18:11

Tgt Ion: 106 Resp: 278763
Ion Ratio Lower Upper
106 100
91 194.2 139.4 258.8

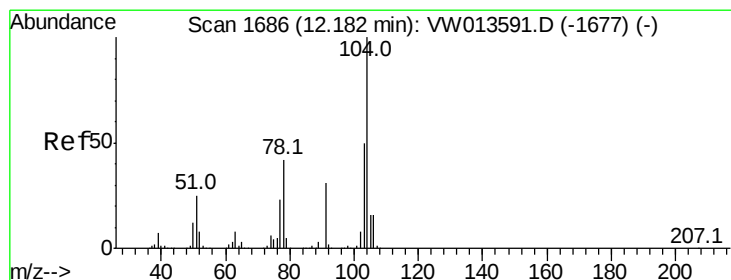
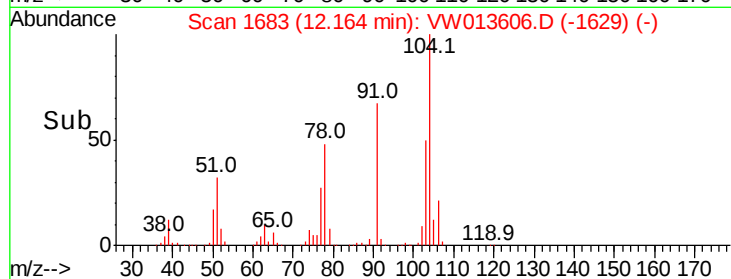
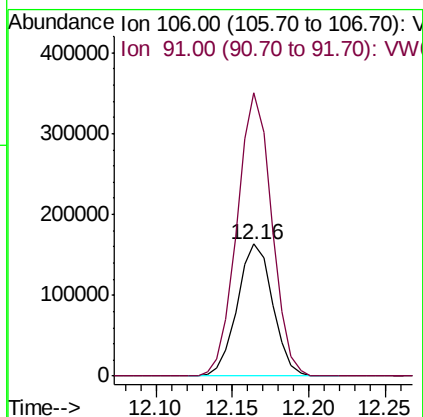
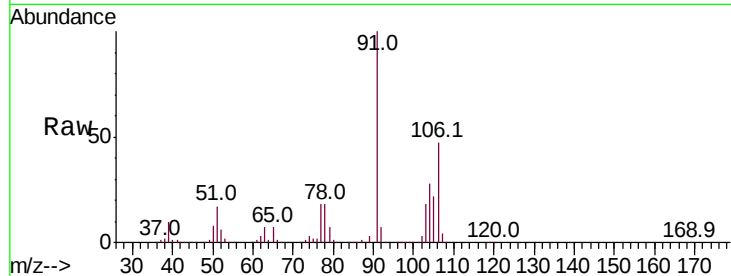




#55
o-xylene
Concen: 23.890 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW013606.D
Acq: 16 Oct 2019 18:11

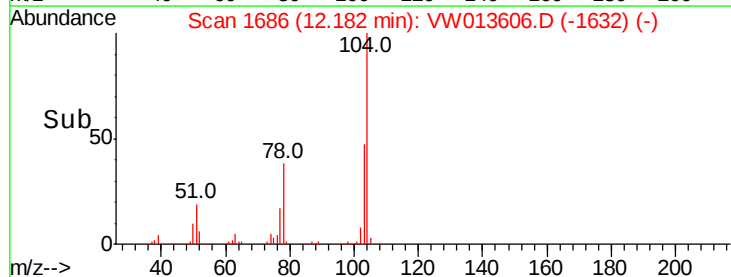
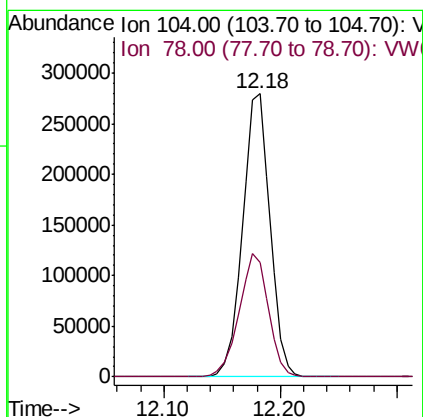
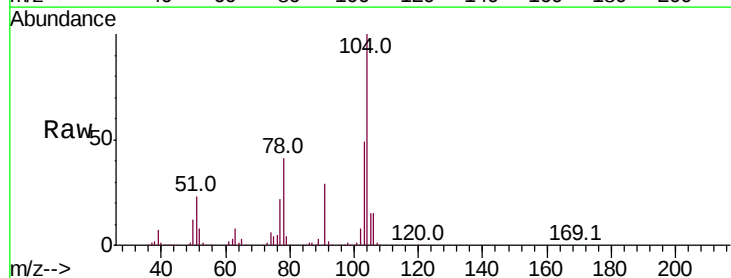
Instrument :
MSVOA_W
ClientSampled :

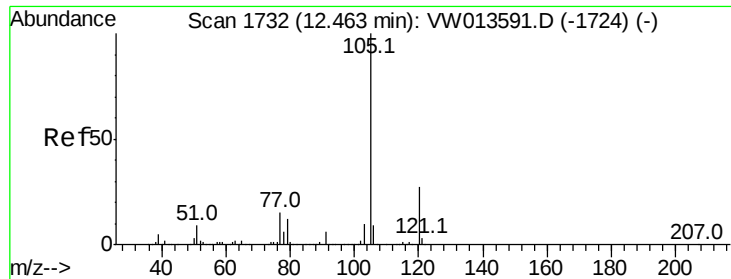
Tot Ion:106 Resp: 262637
Ion Ratio Lower Upper
106 100
91 214.3 148.4 275.6



#56
Styrene
Concen: 24.461 ug/L
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW013606.D
Acq: 16 Oct 2019 18:11

Tgt Ion:104 Resp: 457987
Ion Ratio Lower Upper
104 100
78 40.6 28.4 52.8





#57

Isopropylbenzene

Concen: 23.745 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW013606.D

Acq: 16 Oct 2019 18:11

Instrument :

MSVOA_W

ClientSampleId :

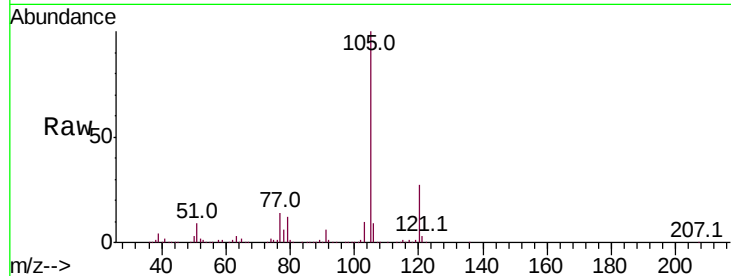
Tot Ion:105 Resp: 708154

Ion Ratio Lower Upper

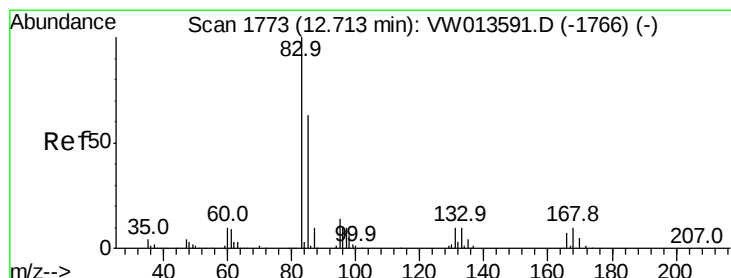
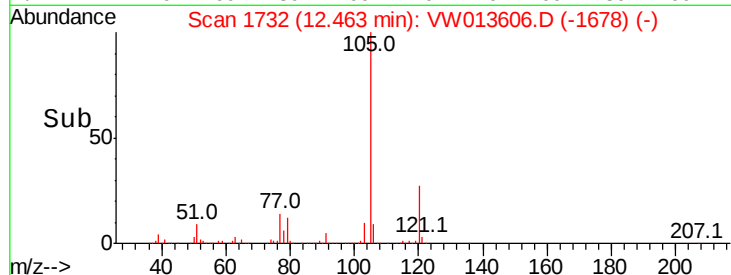
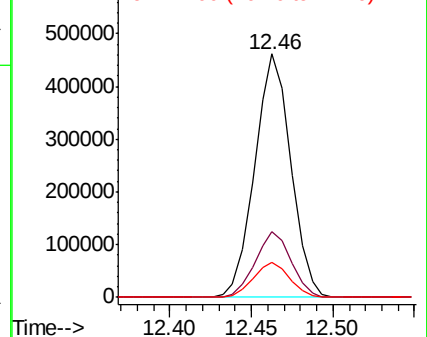
105 100

120 26.9 21.7 32.5

77 14.4 11.8 17.6



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: 27.982 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW013606.D

Acq: 16 Oct 2019 18:11

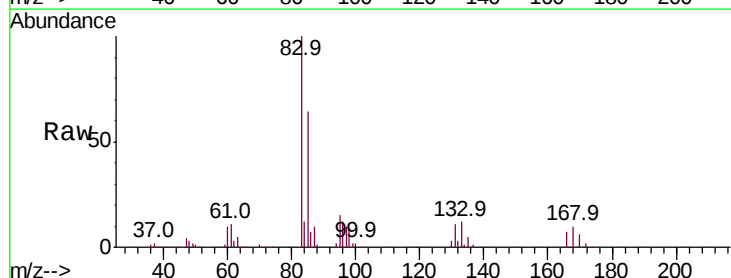
Tgt Ion: 83 Resp: 152149

Ion Ratio Lower Upper

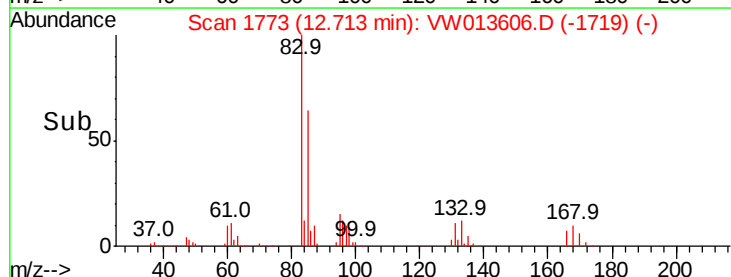
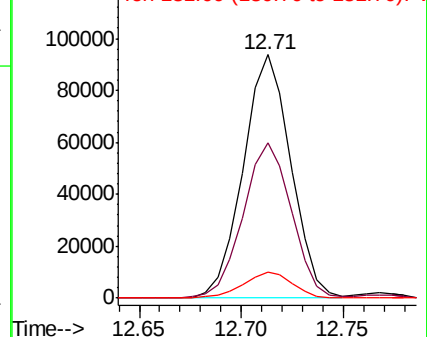
83 100

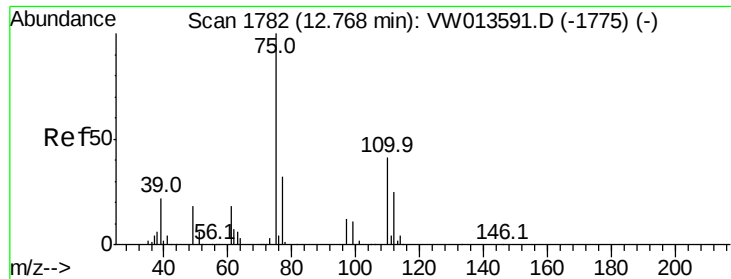
85 63.6 44.7 83.1

131 10.6 7.8 11.6



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: 28.151 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW013606.D

Acq: 16 Oct 2019 18:11

Instrument :

MSVOA_W

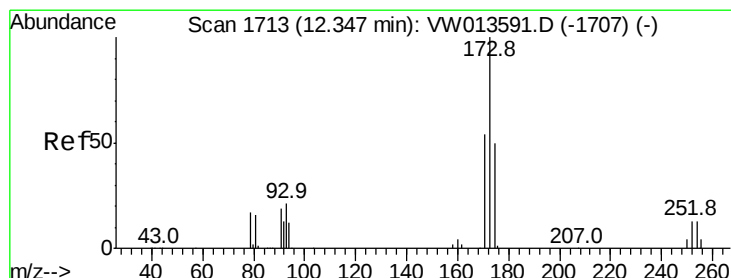
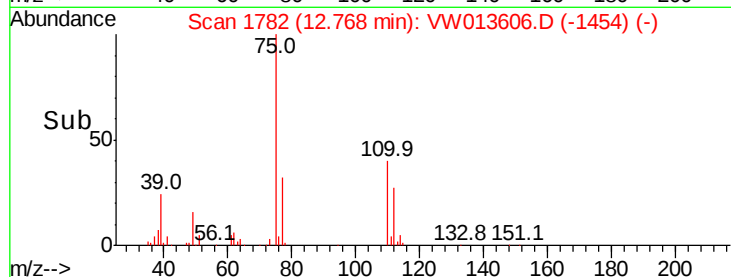
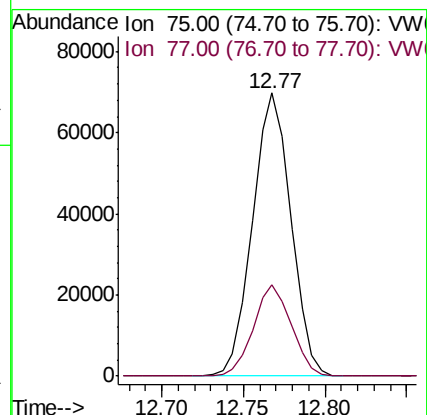
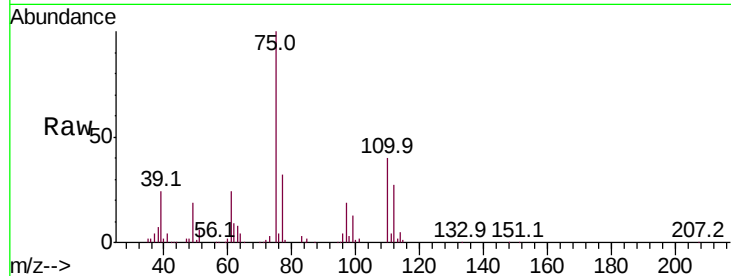
ClientSampleId :

Tot Ion: 75 Resp: 114296

Ion Ratio Lower Upper

75 100

77 31.8 25.5 38.3



#62

Bromoform

Concen: 26.639 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW013606.D

Acq: 16 Oct 2019 18:11

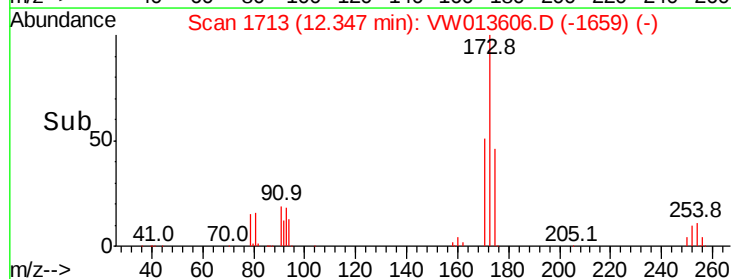
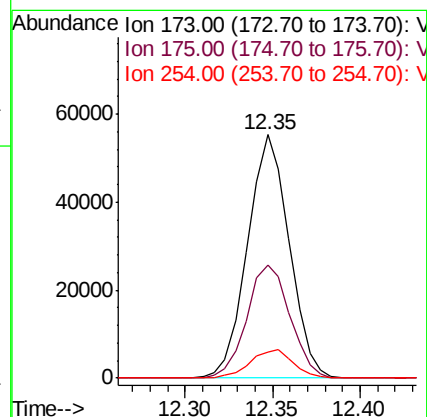
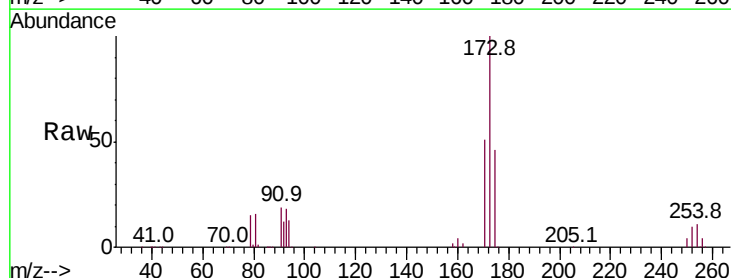
Tgt Ion:173 Resp: 91705

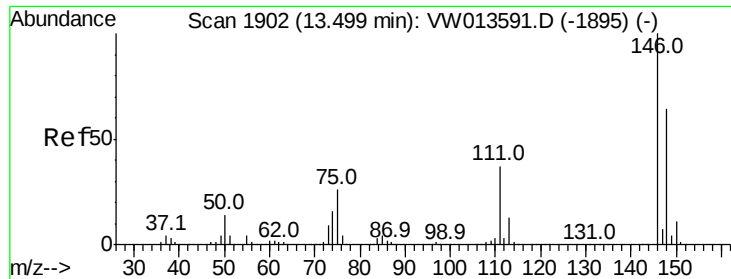
Ion Ratio Lower Upper

173 100

175 48.0 39.0 58.6

254 12.1 10.1 15.1

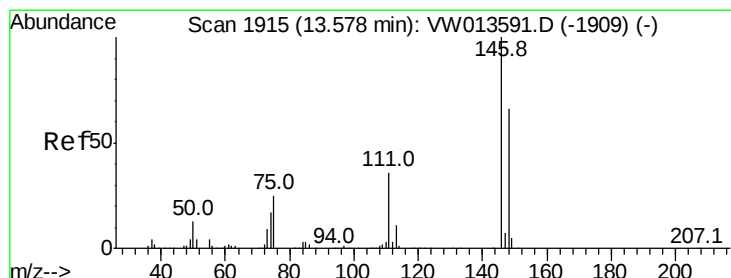
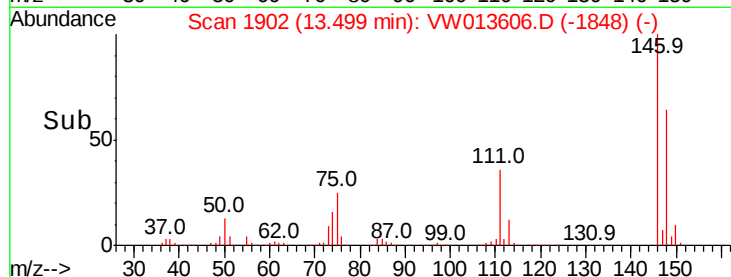
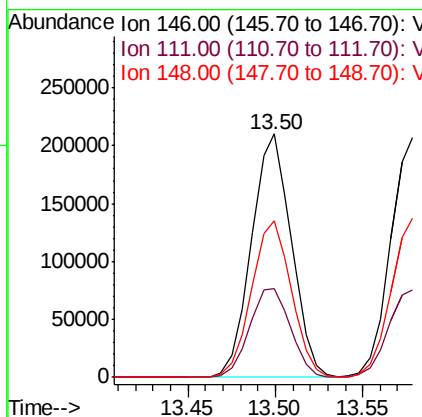
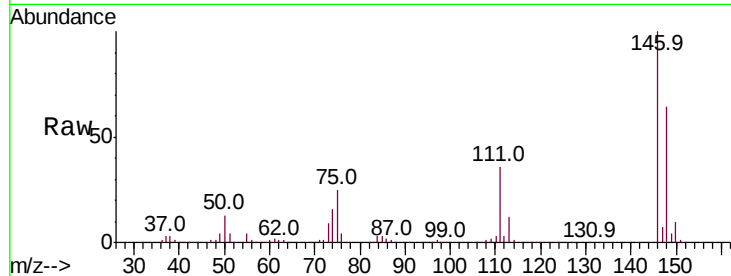




#63
 1,3-Dichlorobenzene
 Concen: 23.209 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW013606.D
 Acq: 16 Oct 2019 18:11

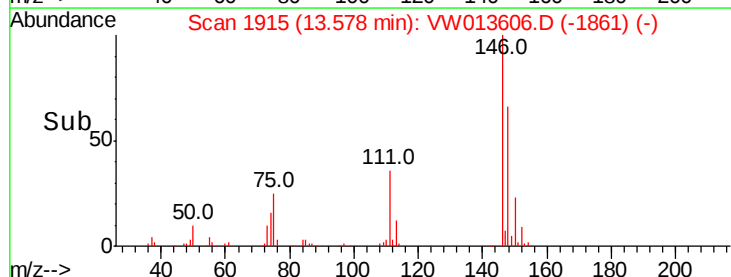
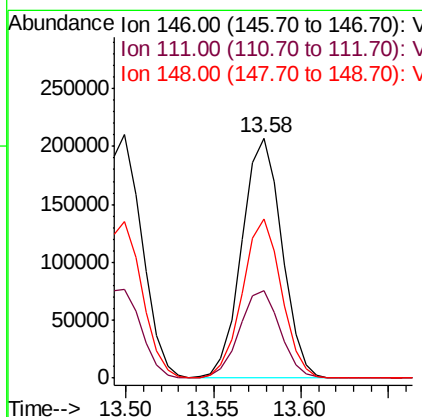
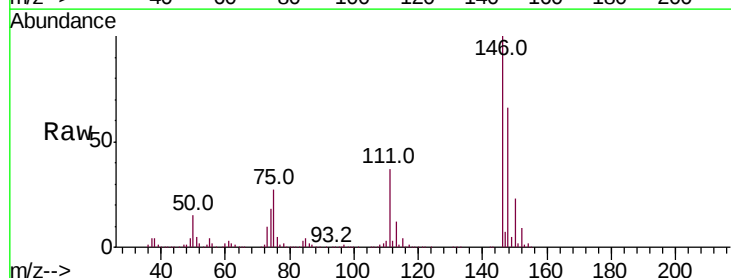
Instrument :
 MSVOA_W
 ClientSampleId :

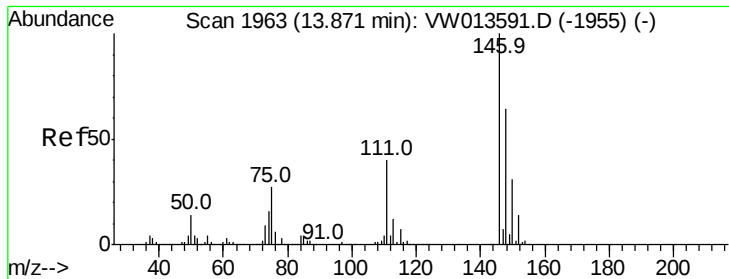
Tot Ion:146 Resp: 332860
 Ion Ratio Lower Upper
 146 100
 111 36.5 25.3 46.9
 148 64.4 42.8 79.4



#64
 1,4-Dichlorobenzene
 Concen: 23.186 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW013606.D
 Acq: 16 Oct 2019 18:11

Tgt Ion:146 Resp: 331015
 Ion Ratio Lower Upper
 146 100
 111 36.5 25.8 47.8
 148 66.2 43.7 81.1





#65

1,2-Dichlorobenzene

Concen: 23.640 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW013606.D

Acq: 16 Oct 2019 18:11

Instrument :

MSVOA_W

ClientSampleId :

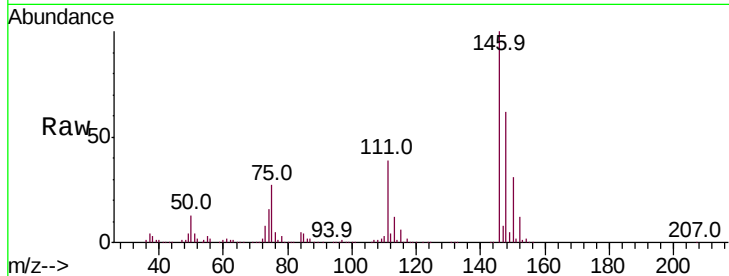
Tot Ion:146 Resp: 304847

Ion Ratio Lower Upper

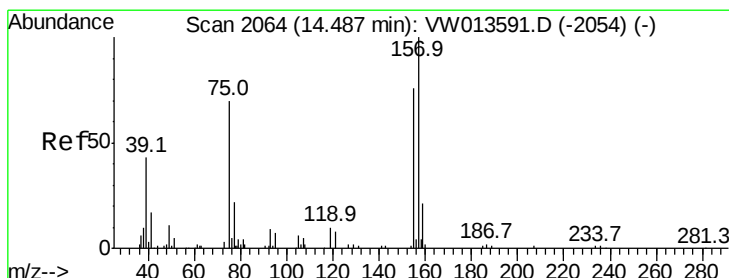
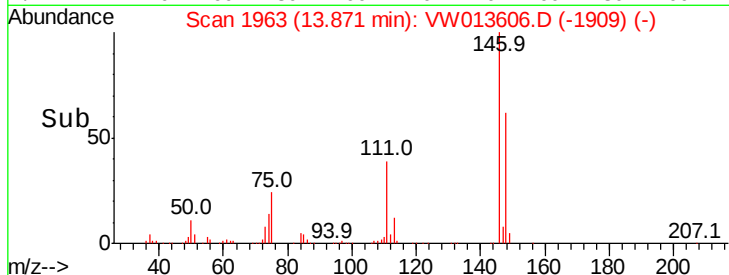
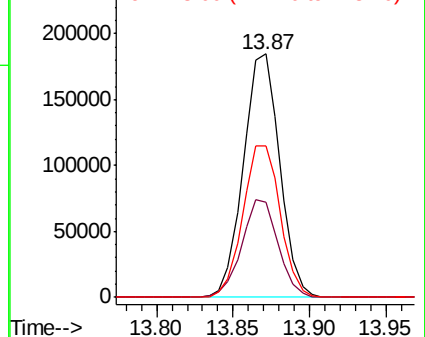
146 100

111 38.8 31.0 46.4

148 62.4 50.3 75.5



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: 27.820 ug/L

RT: 14.49 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VW013606.D

Acq: 16 Oct 2019 18:11

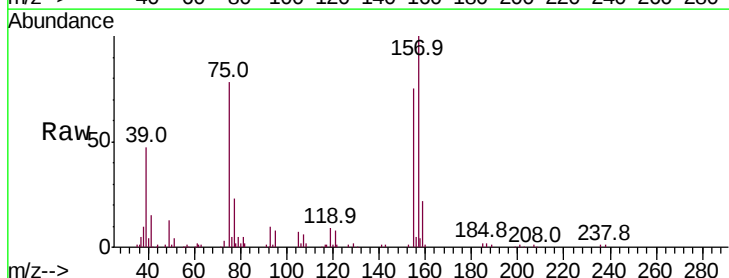
Tgt Ion: 75 Resp: 24767

Ion Ratio Lower Upper

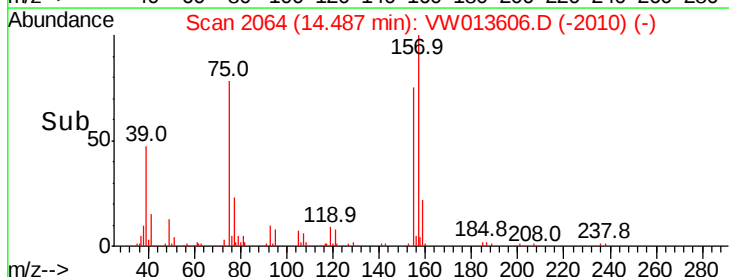
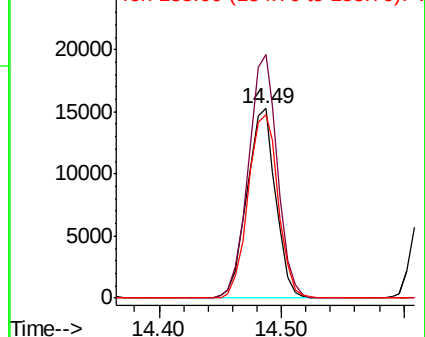
75 100

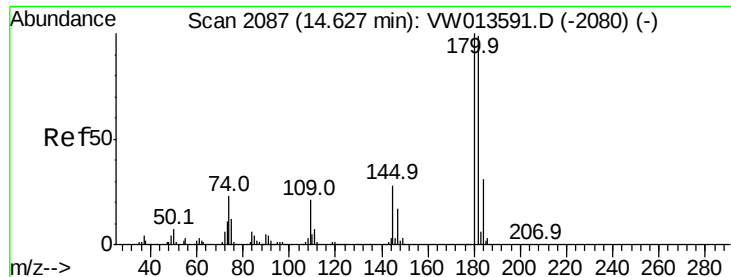
157 128.5 102.0 153.0

155 97.0 77.6 116.4



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

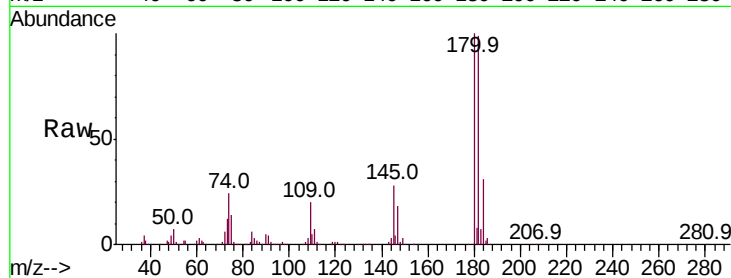




#67
 1,3,5-Trichlorobenzene
 Concen: 22.701 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW013606.D
 Acq: 16 Oct 2019 18:11

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.9	77.0	115.4
184	31.0	24.7	37.1
145	26.9	22.2	33.2



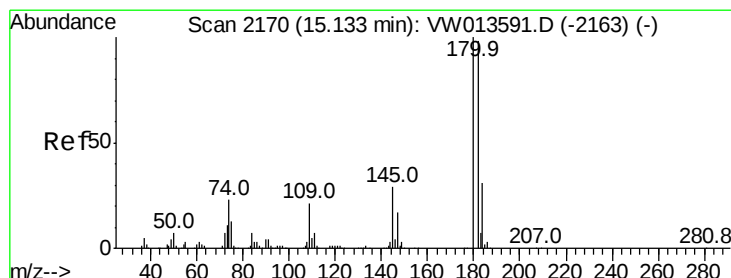
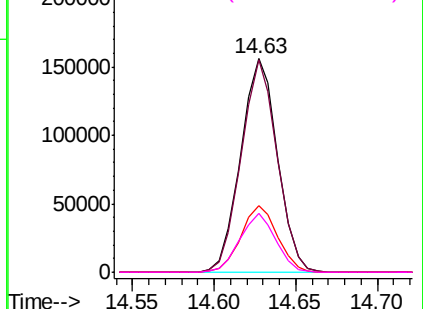
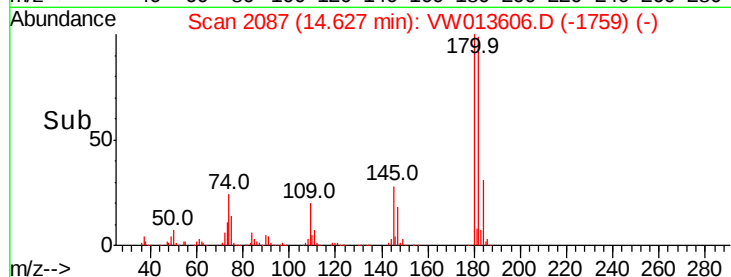
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

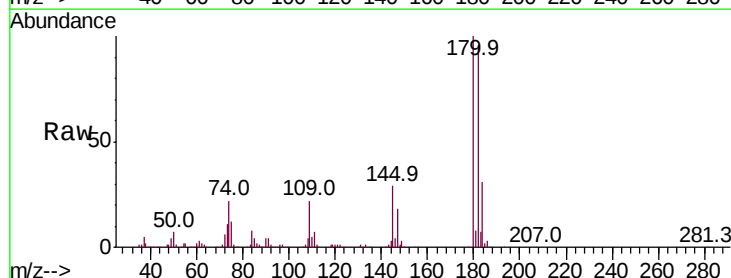
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 22.917 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW013606.D
 Acq: 16 Oct 2019 18:11

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.8	78.2	117.2
145	27.8	22.8	34.2

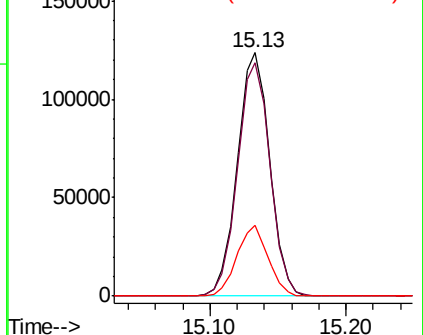
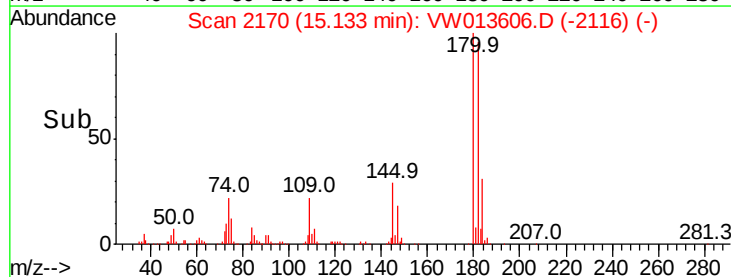


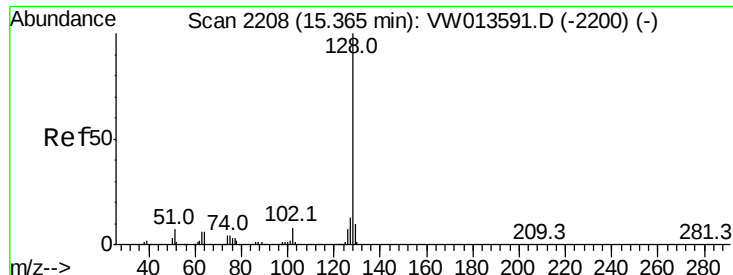
Abundance

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: 25.875 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW013606.D

Acq: 16 Oct 2019 18:11

Instrument :

MSVOA_W

ClientSampleId :

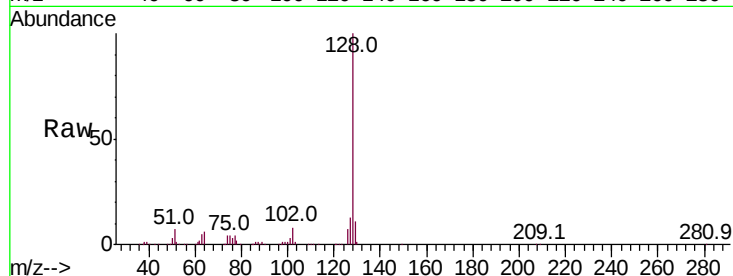
Tot Ion:128 Resp: 422846

Ion Ratio Lower Upper

128 100

129 11.1 8.5 12.7

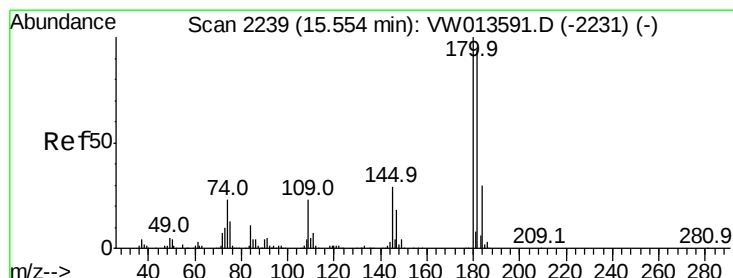
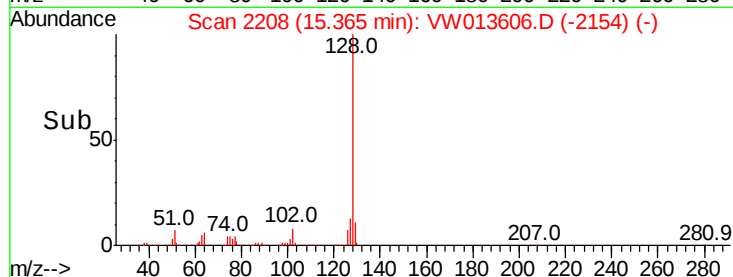
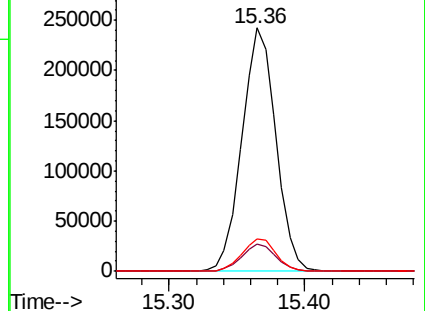
127 13.3 10.4 15.6



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: 23.651 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW013606.D

Acq: 16 Oct 2019 18:11

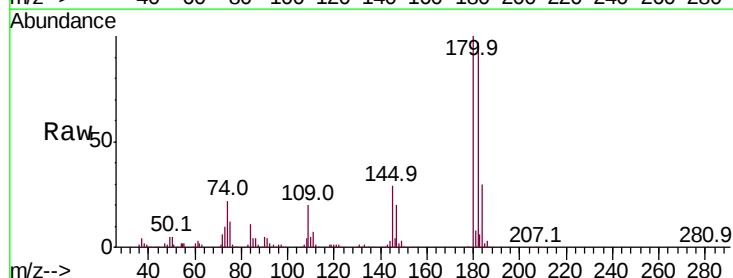
Tgt Ion:180 Resp: 188953

Ion Ratio Lower Upper

180 100

182 95.6 76.0 114.0

145 29.7 23.1 34.7



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

