

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW112919\
 Data File : VW014170.D
 Acq On : 29 Nov 2019 09:27
 Operator : SY/VA
 Sample : VSTDCCC025
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Nov 30 04:10:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM111119S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Nov 29 14:38:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	296670	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	286156	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	172138	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	90484	19.12	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	76.48%
7) Chloroethane-d5	2.89	69	82207	21.42	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	85.68%
10) 1,1-Dichloroethene-d2	4.02	63	205025	21.11	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	84.44%
20) 2-Butanone-d5	7.07	46	68198	49.60	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	99.20%
24) Chloroform-d	7.65	84	216261	23.71	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	94.84%
26) 1,2-Dichloroethane-d4	8.30	65	110158	24.02	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	96.08%
29) Benzene-d6	8.27	84	435803	21.46	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	85.84%
33) 1,2-Dichloropropane-d6	9.27	67	131479	22.11	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	88.44%
37) Toluene-d8	10.32	98	399741	20.76	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	83.04%
38) trans-1,3-Dichloropropene-	10.57	79	54806	21.52	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	86.08%
39) 2-Hexanone-d5	10.92	63	54922	48.70	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.40%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	111352	24.79	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	99.16%
61) 1,2-Dichlorobenzene-d4	13.85	152	151899	21.96	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	87.84%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.01	85	67724	19.195	ug/L	87
3) Chloromethane	2.21	50	68203	21.763	ug/L	98
5) Vinyl chloride	2.36	62	118775	24.274	ug/L	96
6) Bromomethane	2.78	94	73956	24.412	ug/L	98
8) Chloroethane	2.92	64	71198	24.461	ug/L	95
9) Trichlorofluoromethane	3.26	101	88434	26.504	ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	119937	24.344	ug/L	99
12) 1,1-Dichloroethene	4.04	96	117894	23.540	ug/L	98
13) Acetone	4.12	43	60563	43.282	ug/L	99
14) Carbon disulfide	4.38	76	320832	22.508	ug/L	100
15) Methyl Acetate	4.67	43	55606	24.561	ug/L	98
16) Methylene chloride	4.92	84	121078	21.199	ug/L	97
17) Methyl tert-butyl Ether	5.42	73	148476	22.980	ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	122302	23.418	ug/L	96
19) 1,1-Dichloroethane	6.21	63	217560	24.732	ug/L	97
21) 2-Butanone	7.17	43	78427	43.627	ug/L	99
22) cis-1,2-Dichloroethene	7.17	96	131986	24.016	ug/L	99

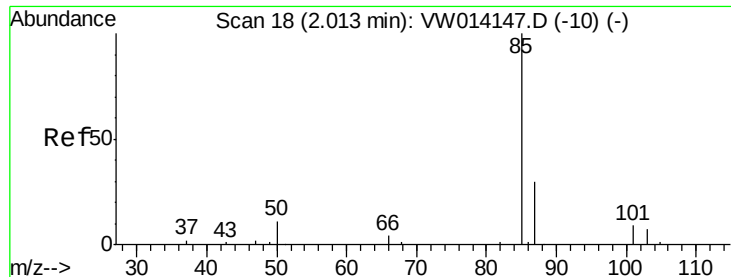
Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW112919\
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 Quant Title : VOC Analysis
 QLast Update : Fri Nov 29 14:38:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	58738	24.348	ug/L	91
25) Chloroform	7.67	83	218063	25.242	ug/L	99
27) 1,2-Dichloroethane	8.40	62	135805	25.966	ug/L	98
30) Cyclohexane	7.95	56	202334	22.095	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	176148	24.563	ug/L	98
32) Carbon tetrachloride	8.06	117	167926	24.393	ug/L	100
34) Benzene	8.32	78	502007	23.917	ug/L	100
35) Trichloroethene	9.09	95	127484	22.769	ug/L	99
36) Methylcyclohexane	9.34	83	224227	22.336	ug/L	98
40) 1,2-Dichloropropane	9.37	63	121751	24.096	ug/L	100
41) Bromodichloromethane	9.64	83	150715	24.673	ug/L	98
42) cis-1,3-Dichloropropene	10.07	75	188684	23.663	ug/L	100
43) 4-Methyl-2-pentanone	10.21	43	151709	45.475	ug/L	98
44) Toluene	10.38	91	537264	23.477	ug/L	98
45) trans-1,3-Dichloropropene	10.60	75	149688	23.739	ug/L	98
46) 1,1,2-Trichloroethane	10.79	97	89544	24.119	ug/L	95
47) Tetrachloroethene	10.86	164	118209	23.687	ug/L	95
49) 2-Hexanone	10.96	43	110211	45.823	ug/L	98
50) Dibromochloromethane	11.13	129	107208	24.568	ug/L	98
51) 1,2-Dibromoethane	11.23	107	85012	23.601	ug/L	95
52) Chlorobenzene	11.65	112	337764	23.543	ug/L	96
53) Ethylbenzene	11.73	91	595239	23.703	ug/L	99
54) m,p-Xylene	11.84	106	229314	23.497	ug/L	98
55) o-xylene	12.16	106	215348	23.564	ug/L	99
56) Styrene	12.18	104	373854	24.216	ug/L	100
57) Isopropylbenzene	12.46	105	600660	23.905	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	105904	24.433	ug/L	99
59) 1,2,3-Trichloropropane	12.77	75	78299	24.019	ug/L	99
62) Bromoform	12.35	173	66349	23.520	ug/L	98
63) 1,3-Dichlorobenzene	13.50	146	274860	22.740	ug/L	97
64) 1,4-Dichlorobenzene	13.58	146	277009	23.196	ug/L	100
65) 1,2-Dichlorobenzene	13.87	146	247099	23.087	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.48	75	16152	22.159	ug/L	98
67) 1,3,5-Trichlorobenzene	14.63	180	214047	23.237	ug/L	99
68) 1,2,4-trichlorobenzene	15.13	180	164261	22.679	ug/L	99
69) Naphthalene	15.36	128	281069	21.843	ug/L	99
70) 1,2,3-Trichlorobenzene	15.55	180	147065	23.007	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 19.195 ug/L

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW014170.D

Acq: 29 Nov 2019 09:27

Instrument :

MSVOA_W

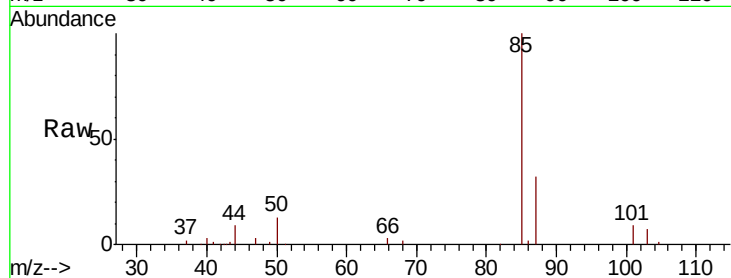
ClientSampleId :

Tot Ion: 85 Resp: 67724

Ion Ratio Lower Upper

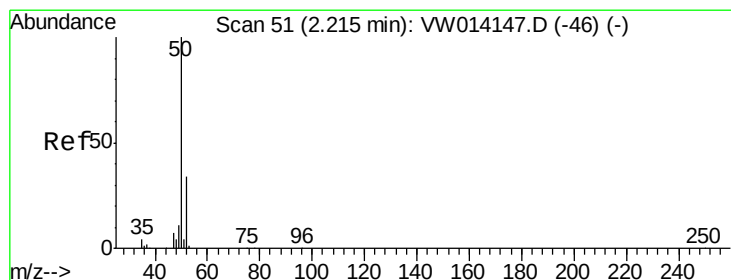
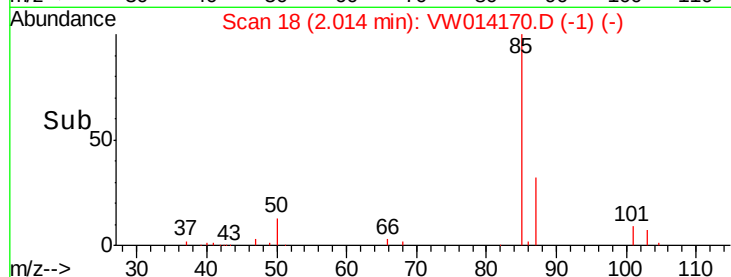
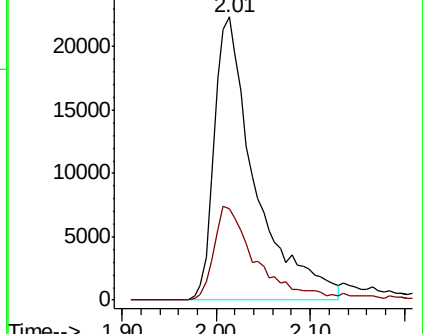
85 100

87 24.1 22.1 41.1



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 21.763 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW014170.D

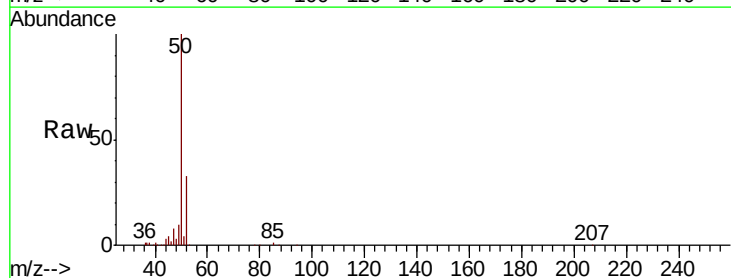
Acq: 29 Nov 2019 09:27

Tgt Ion: 50 Resp: 68203

Ion Ratio Lower Upper

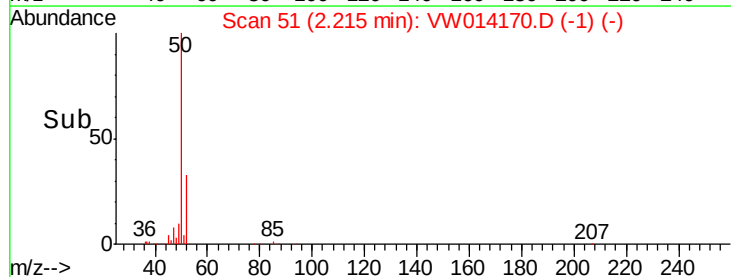
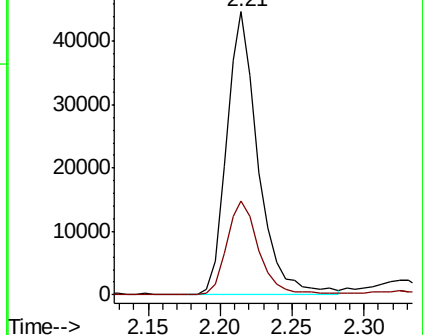
50 100

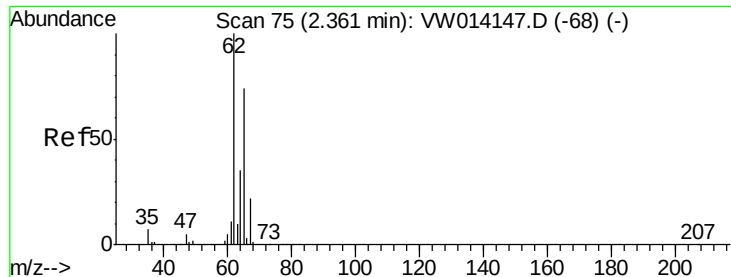
52 33.0 23.8 44.2



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 24.274 ug/L

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VW014170.D

Acq: 29 Nov 2019 09:27

Instrument :

MSVOA_W

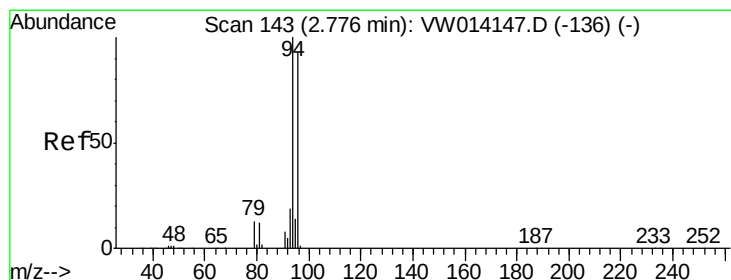
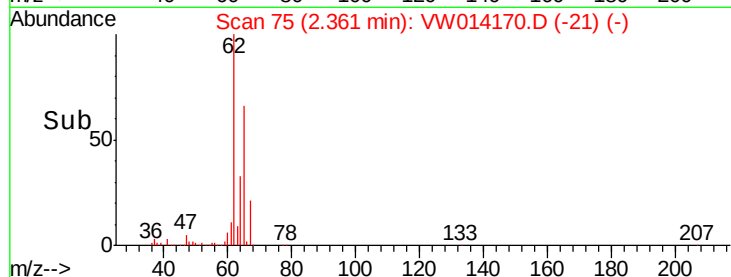
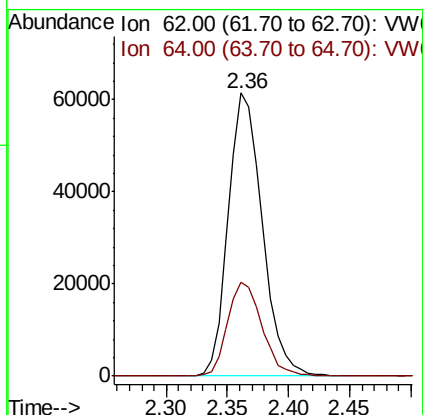
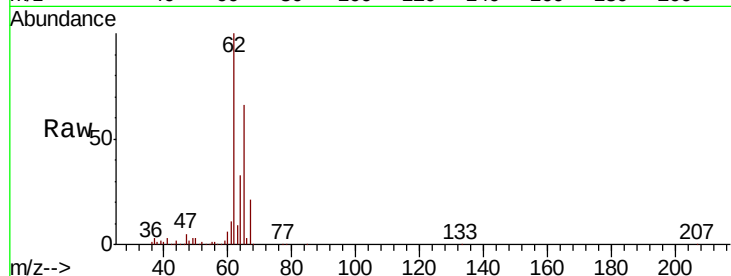
ClientSampleId :

Tot Ion: 62 Resp: 118775

Ion Ratio Lower Upper

62 100

64 33.4 21.8 40.4



#6

Bromomethane

Concen: 24.412 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW014170.D

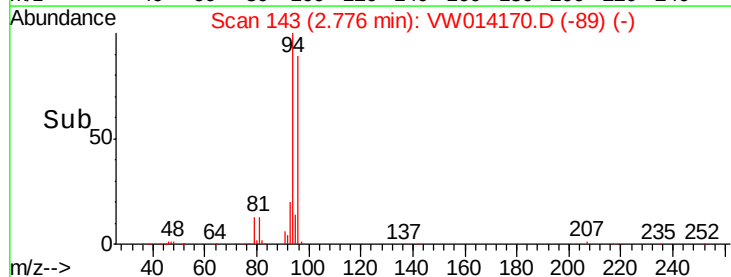
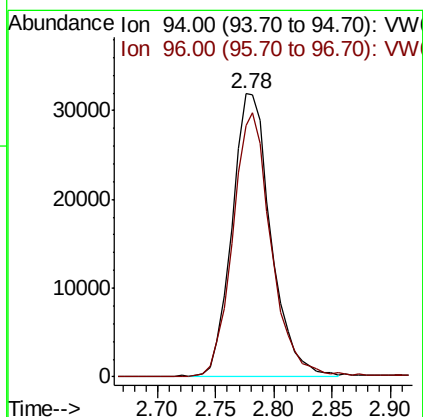
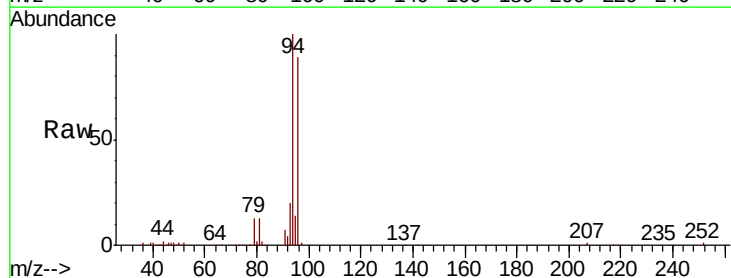
Acq: 29 Nov 2019 09:27

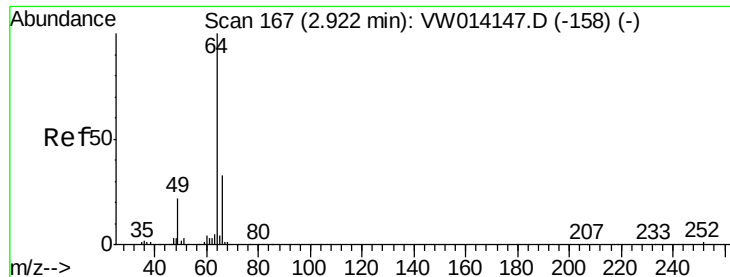
Tgt Ion: 94 Resp: 73956

Ion Ratio Lower Upper

94 100

96 92.1 9.4 178.8





#8

Chloroethane

Concen: 24.461 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW014170.D

Acq: 29 Nov 2019 09:27

Instrument :

MSVOA_W

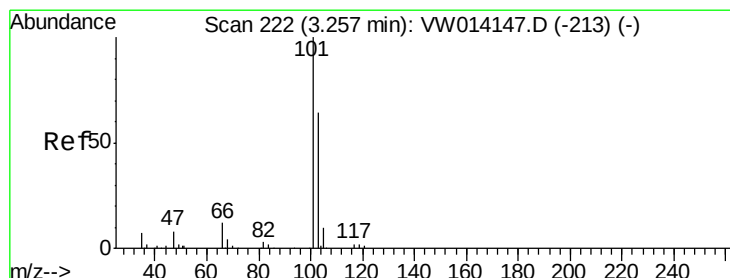
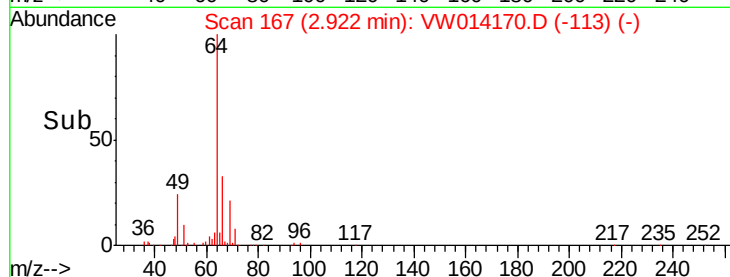
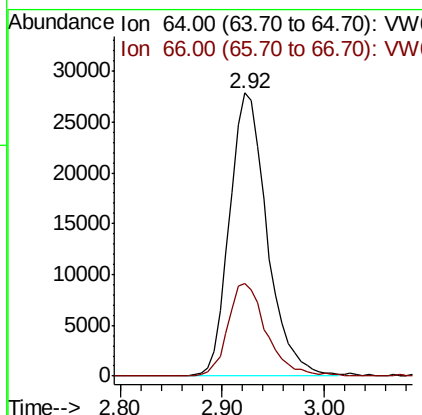
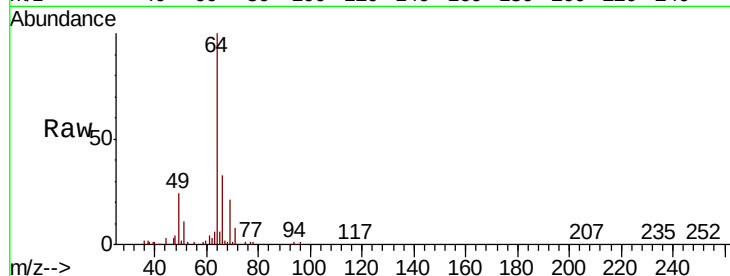
ClientSampleId :

Tot Ion: 64 Resp: 71198

Ion Ratio Lower Upper

64 100

66 32.8 21.2 39.4



#9

Trichlorofluoromethane

Concen: 26.504 ug/L

RT: 3.26 min Scan# 222

Delta R.T. 0.00 min

Lab File: VW014170.D

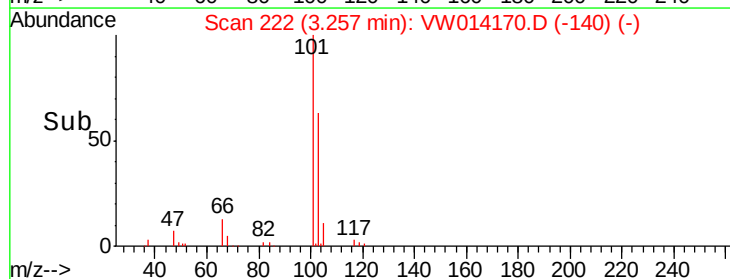
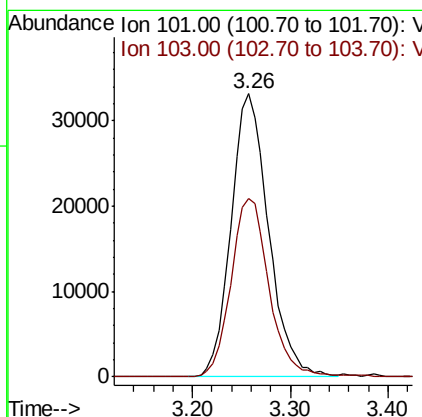
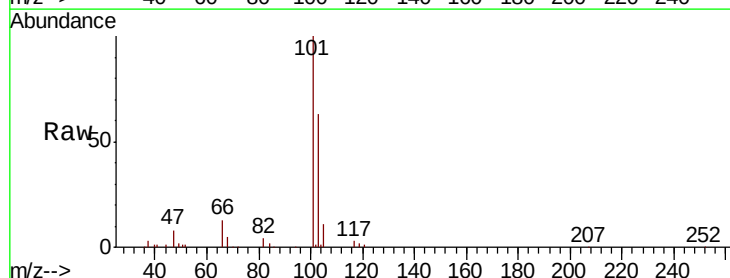
Acq: 29 Nov 2019 09:27

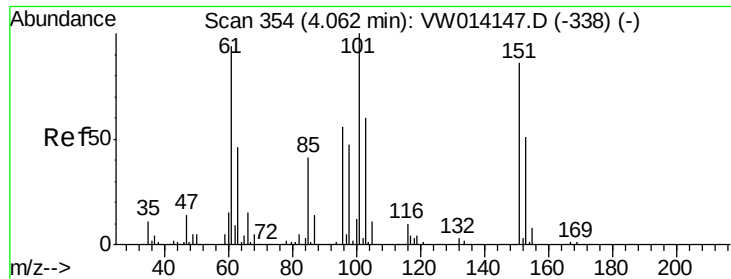
Tgt Ion: 101 Resp: 88434

Ion Ratio Lower Upper

101 100

103 63.6 45.4 84.2





#11

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

Concen: 24.344 ug/L

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW014170.D

Acq: 29 Nov 2019 09:27

Instrument :

MSVOA_W

ClientSampleId :

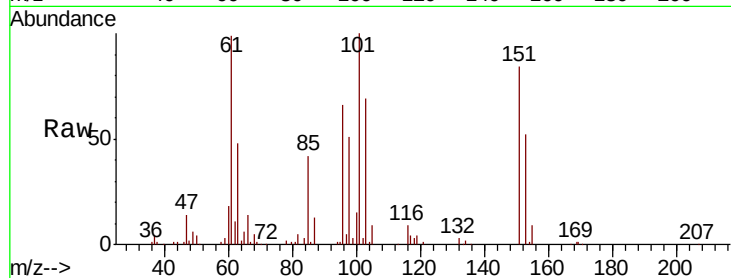
Tot Ion:101 Resp: 119937

Ion Ratio Lower Upper

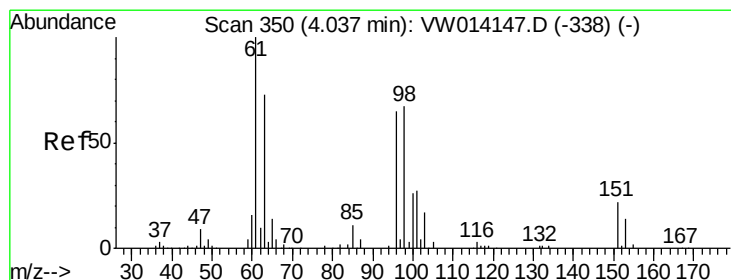
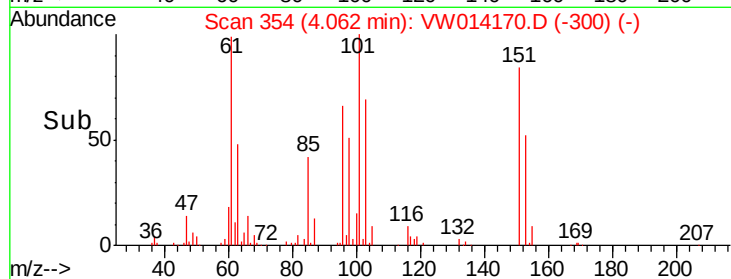
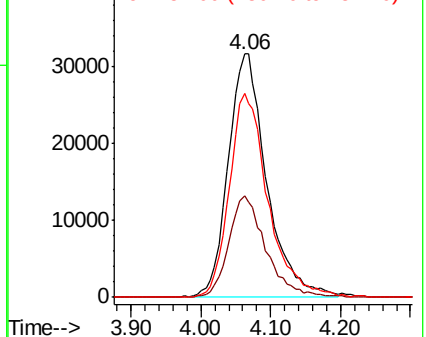
101 100

85 40.4 31.4 47.2

151 84.7 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: 23.540 ug/L

RT: 4.04 min Scan# 350

Delta R.T. 0.00 min

Lab File: VW014170.D

Acq: 29 Nov 2019 09:27

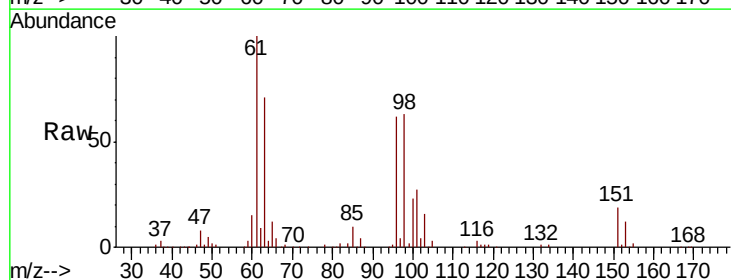
Tgt Ion: 96 Resp: 117894

Ion Ratio Lower Upper

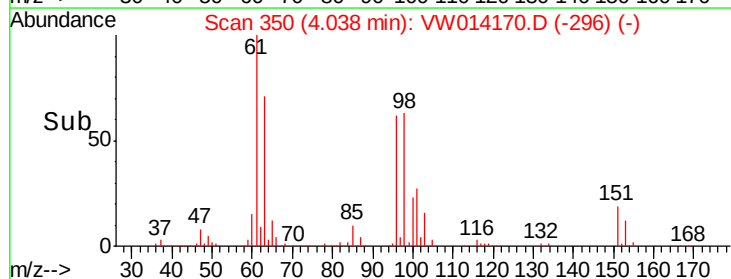
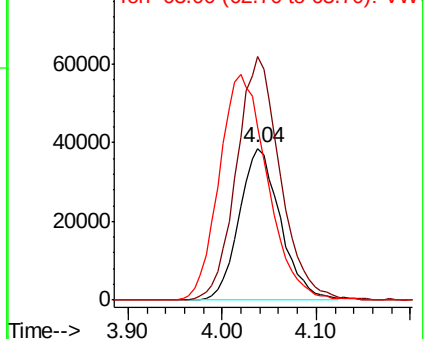
96 100

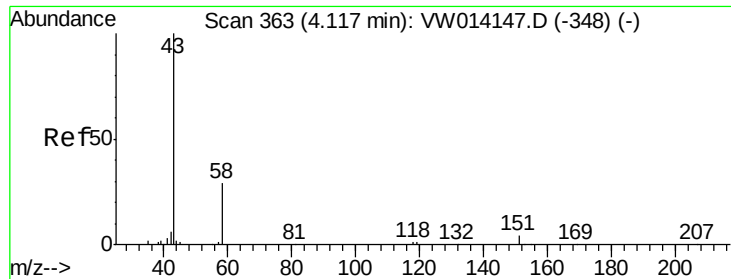
61 160.2 109.8 204.0

63 114.2 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

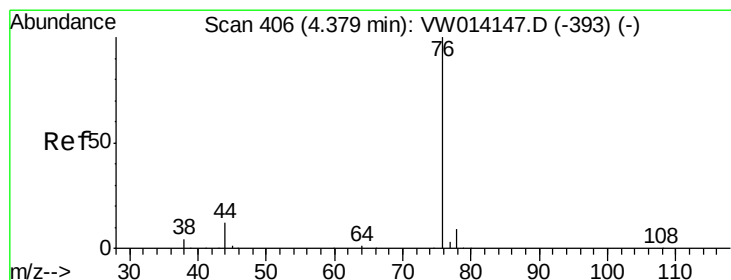
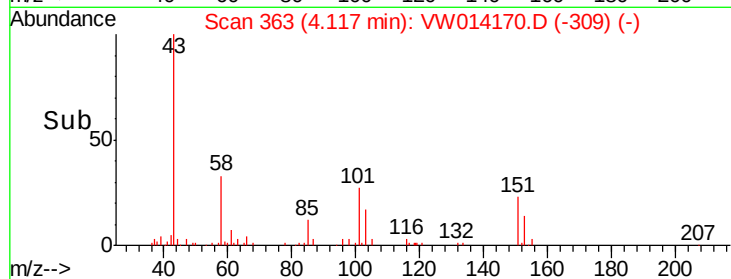
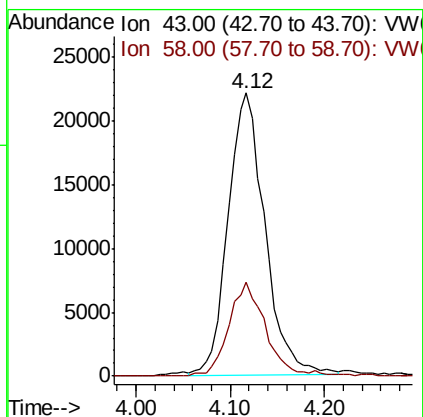
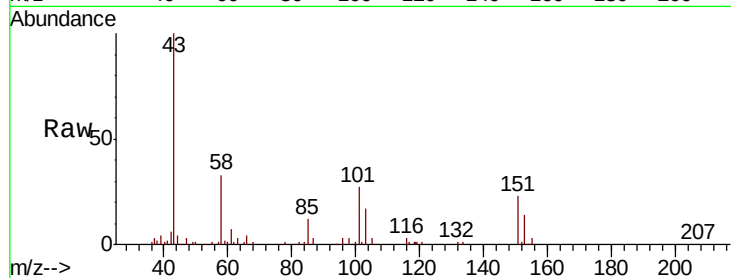




#13
Acetone
Concen: 43.282 ug/L
RT: 4.12 min Scan# 363
Delta R.T. 0.00 min
Lab File: VW014170.D
Acq: 29 Nov 2019 09:27

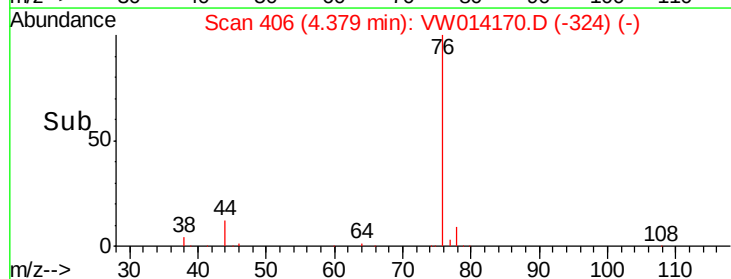
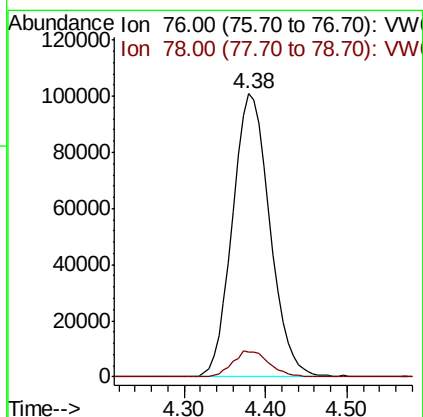
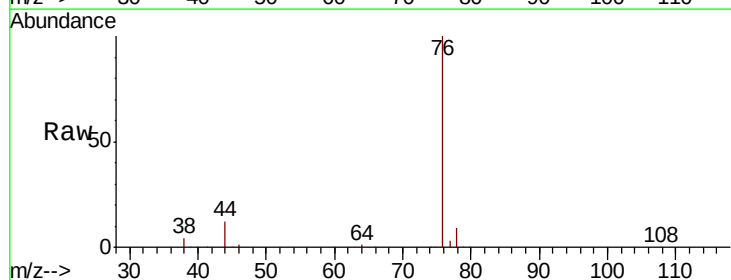
Instrument :
MSVOA_W
ClientSampleId :

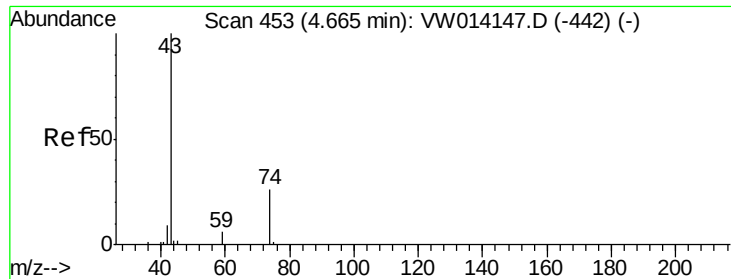
Tot Ion: 43 Resp: 60563
Ion Ratio Lower Upper
43 100
58 32.0 0.0 65.4



#14
Carbon disulfide
Concen: 22.508 ug/L
RT: 4.38 min Scan# 406
Delta R.T. 0.00 min
Lab File: VW014170.D
Acq: 29 Nov 2019 09:27

Tgt Ion: 76 Resp: 320832
Ion Ratio Lower Upper
76 100
78 8.9 7.2 10.8





#15

Methyl Acetate

Concen: 24.561 ug/L

RT: 4.67 min Scan# 453

Delta R.T. 0.00 min

Lab File: VW014170.D

Acq: 29 Nov 2019 09:27

Instrument :

MSVOA_W

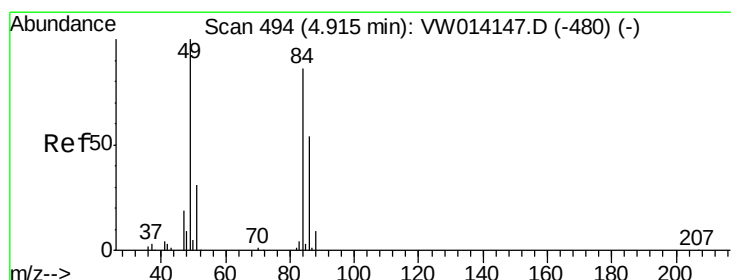
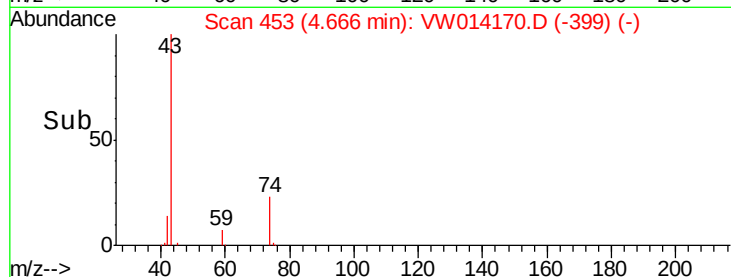
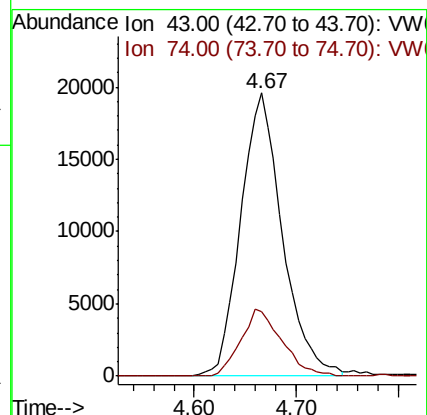
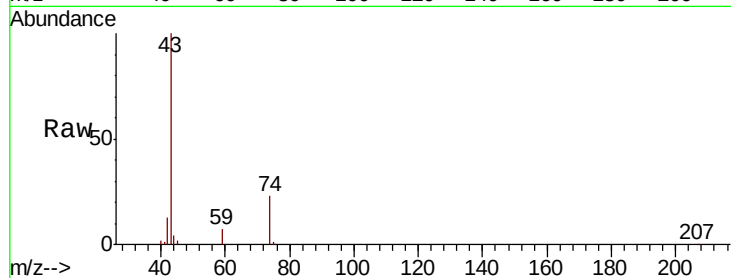
ClientSampleId :

Tot Ion: 43 Resp: 55606

Ion Ratio Lower Upper

43 100

74 23.3 19.3 28.9



#16

Methylene chloride

Concen: 21.199 ug/L

RT: 4.92 min Scan# 494

Delta R.T. 0.00 min

Lab File: VW014170.D

Acq: 29 Nov 2019 09:27

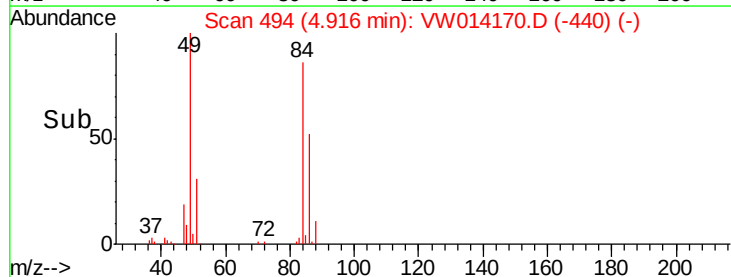
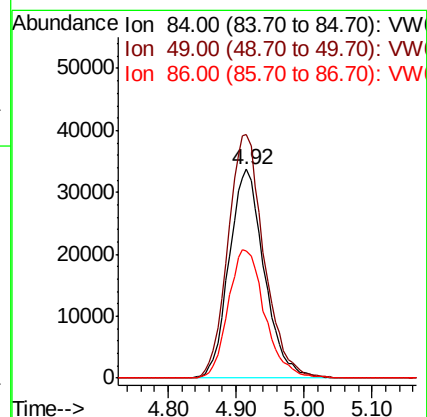
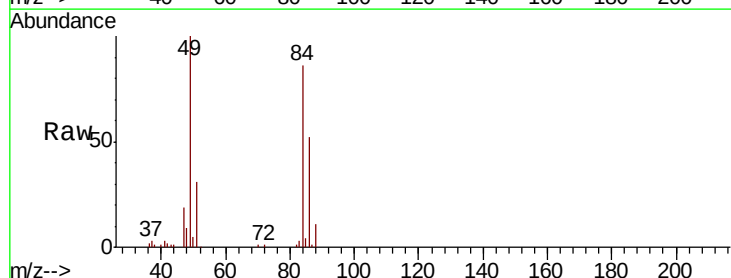
Tgt Ion: 84 Resp: 121078

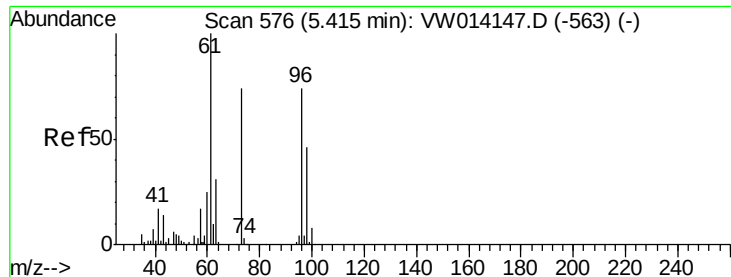
Ion Ratio Lower Upper

84 100

49 116.5 84.2 156.4

86 60.8 43.7 81.1

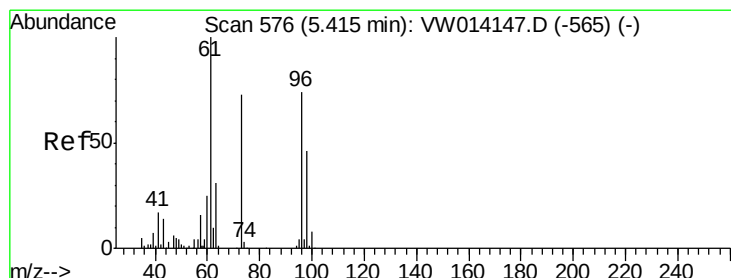
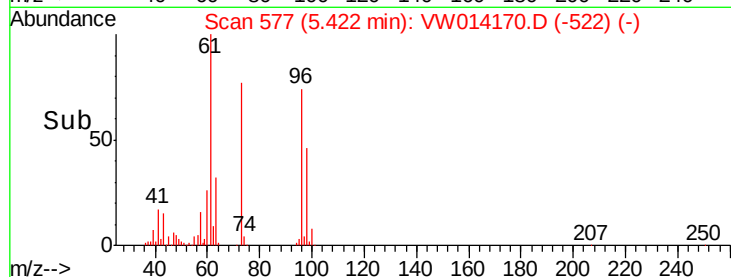
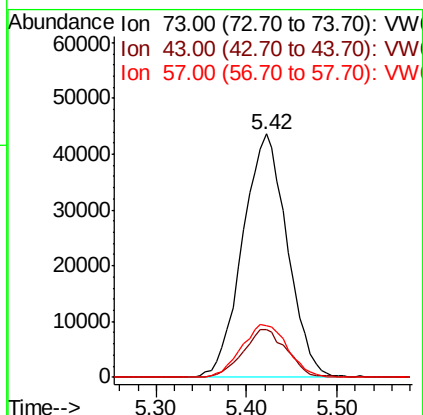
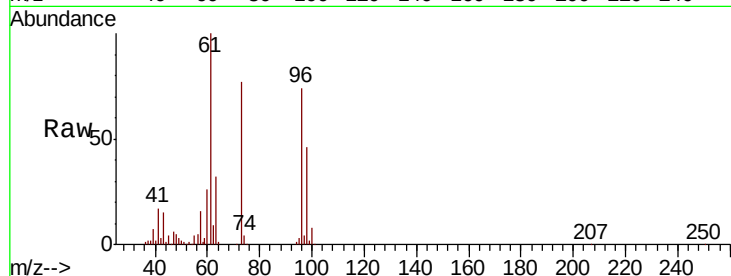




#17
Methyl tert-butyl Ether
Concen: 22.980 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.01 min
Lab File: VW014170.D
Acq: 29 Nov 2019 09:27

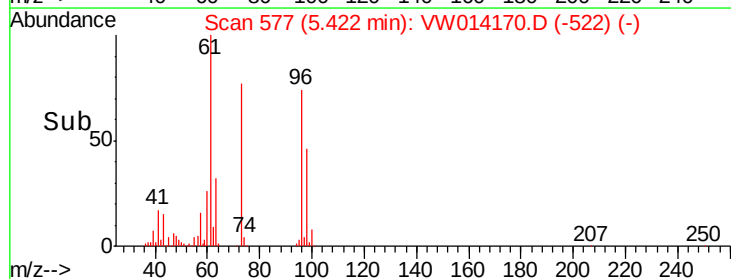
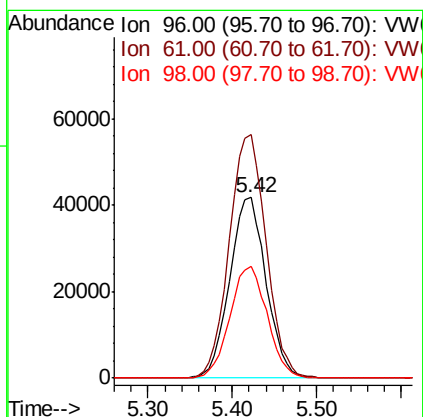
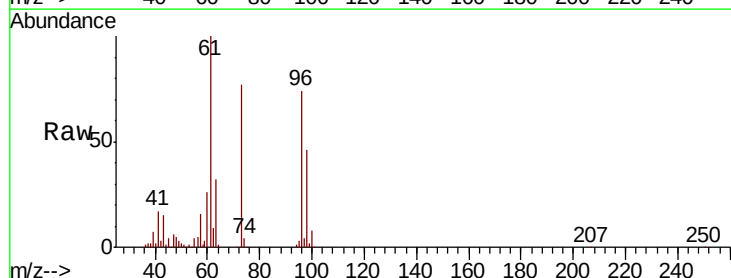
Instrument :
MSVOA_W
ClientSampleId :

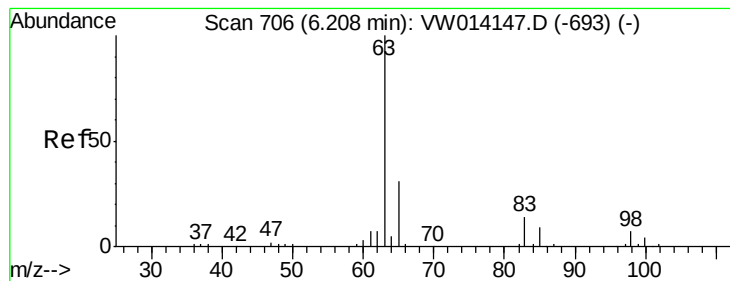
Tot Ion	Ratio	Lower	Upper
73	100		
43	19.5	15.5	23.3
57	22.4	18.2	27.4



#18
trans-1,2-Dichloroethene
Concen: 23.418 ug/L
RT: 5.42 min Scan# 577
Delta R.T. 0.01 min
Lab File: VW014170.D
Acq: 29 Nov 2019 09:27

Tgt Ion	Ratio	Lower	Upper
96	100		
61	135.0	90.6	168.2
98	62.3	42.9	79.7





#19

1,1-Dichloroethane

Concen: 24.732 ug/L

RT: 6.21 min Scan# 707

Delta R.T. 0.01 min

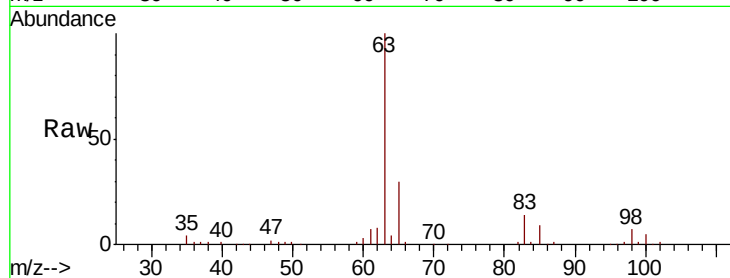
Lab File: VW014170.D

Acq: 29 Nov 2019 09:27

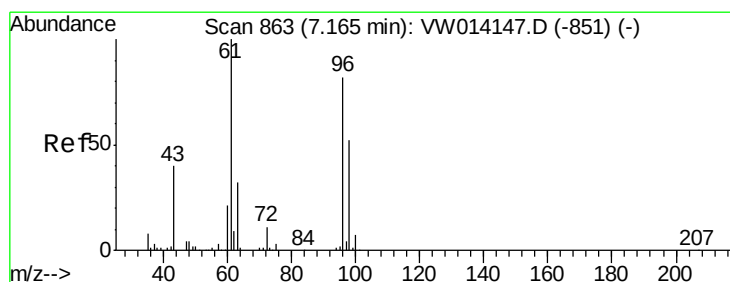
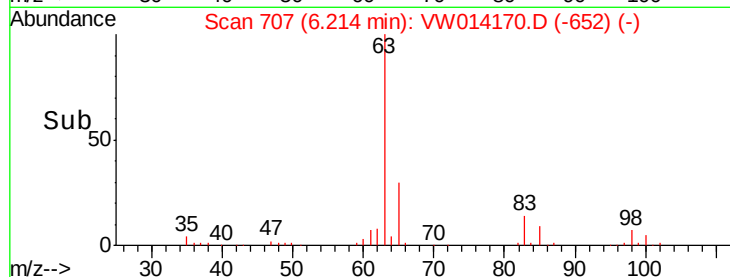
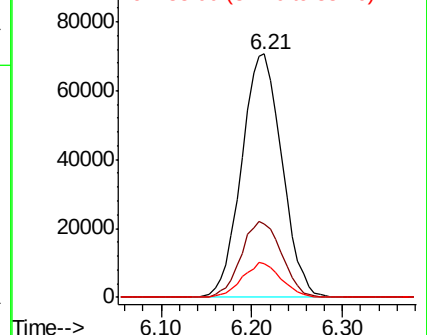
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 63 Resp: 217560

Ion	Ratio	Lower	Upper
63	100		
65	29.9	22.1	41.1
83	13.8	9.0	16.6



Abundance Ion 63.00 (62.70 to 63.70): VW
Ion 65.00 (64.70 to 65.70): VW
Ion 83.00 (82.70 to 83.70): VW



#21

2-Butanone

Concen: 43.627 ug/L

RT: 7.17 min Scan# 863

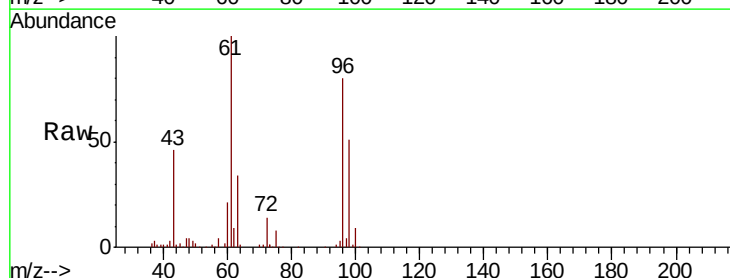
Delta R.T. 0.00 min

Lab File: VW014170.D

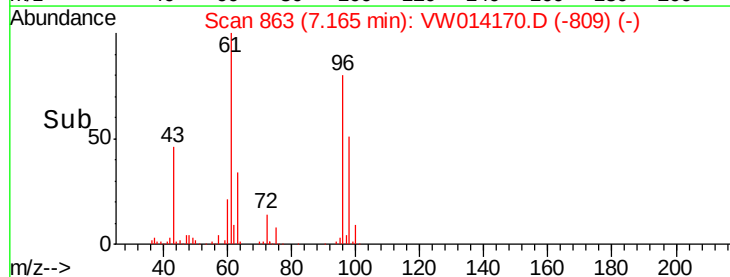
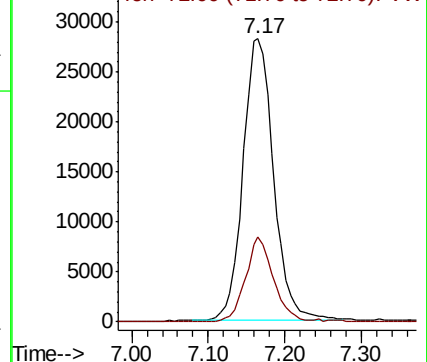
Acq: 29 Nov 2019 09:27

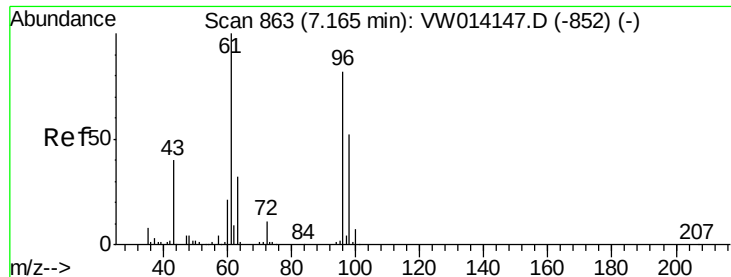
Tgt Ion: 43 Resp: 78427

Ion	Ratio	Lower	Upper
43	100		
72	27.4	14.1	42.2



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW



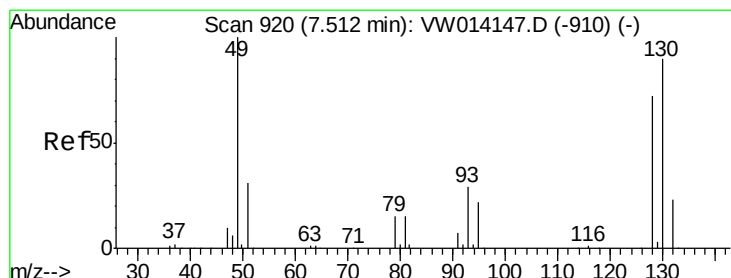
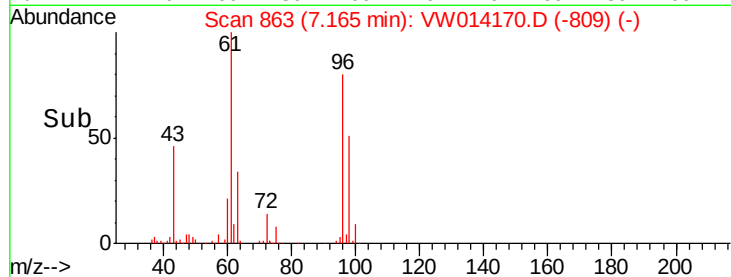
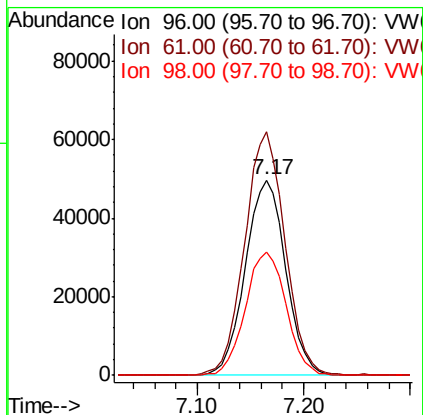
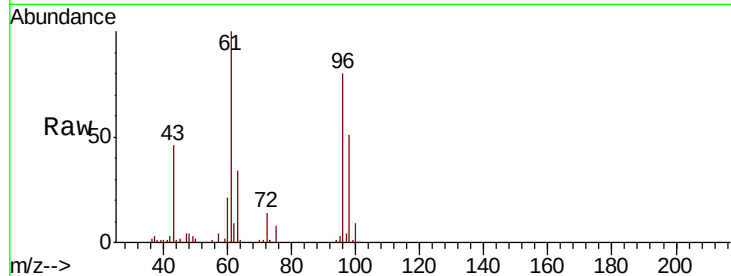


#22

cis-1,2-Dichloroethene
Concen: 24.016 ug/L
RT: 7.17 min Scan# 863
Delta R.T. 0.00 min
Lab File: VW014170.D
Acq: 29 Nov 2019 09:27

Instrument :
MSVOA_W
ClientSampled :

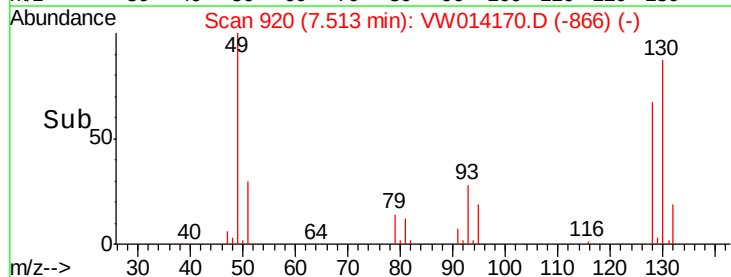
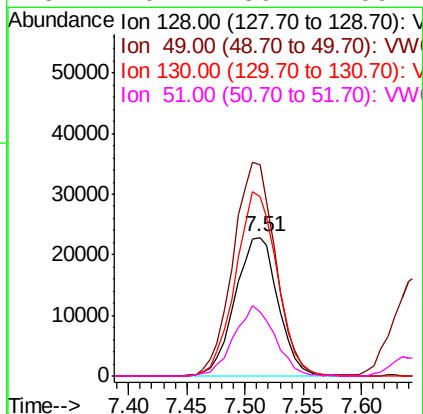
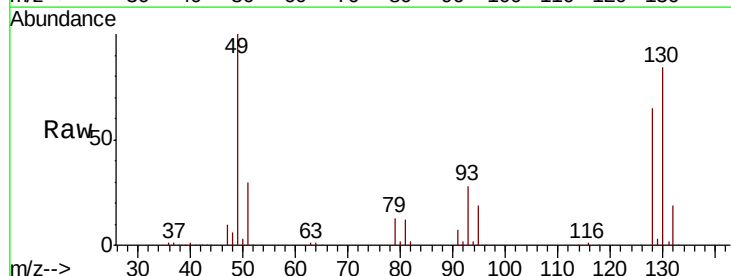
Tot Ion	Ratio	Lower	Upper
96	100		
61	124.9	86.9	161.5
98	63.2	45.5	84.5

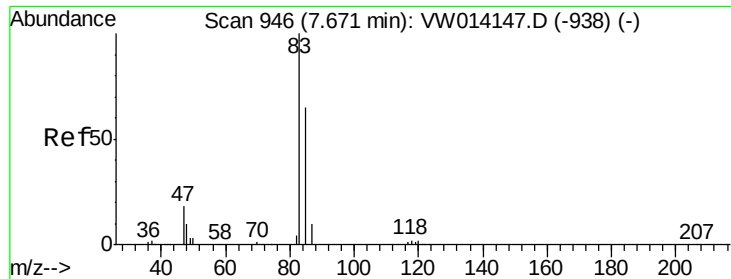


#23

Bromochloromethane
Concen: 24.348 ug/L
RT: 7.51 min Scan# 920
Delta R.T. 0.00 min
Lab File: VW014170.D
Acq: 29 Nov 2019 09:27

Tgt Ion	Ratio	Lower	Upper
128	100		
49	152.8	95.1	176.5
130	129.1	85.0	158.0
51	46.1	36.7	55.1

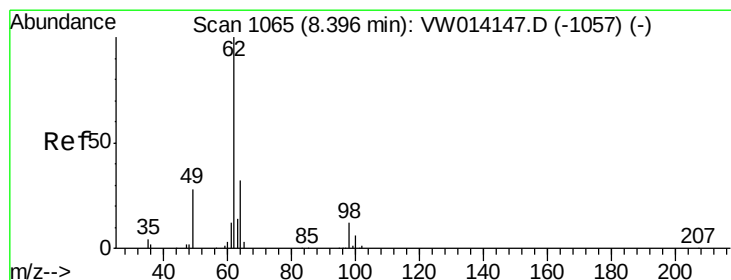
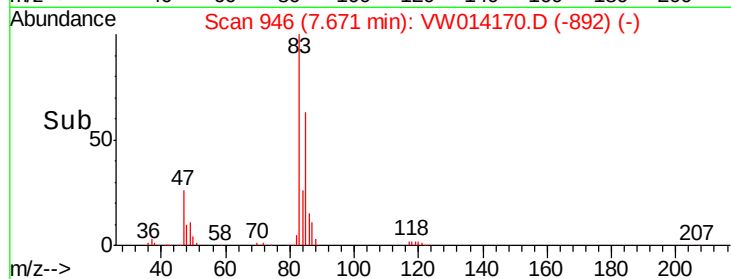
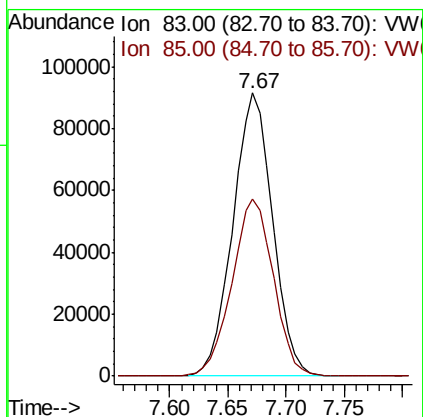
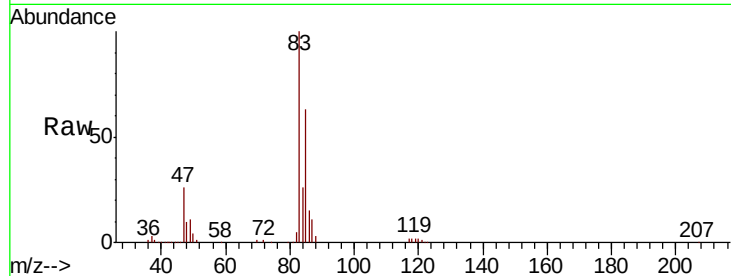




#25
Chloroform
Concen: 25.242 ug/L
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW014170.D
Acq: 29 Nov 2019 09:27

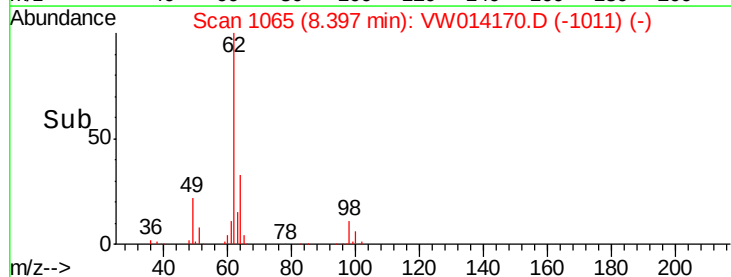
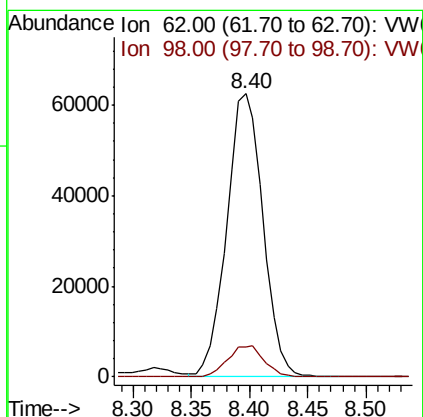
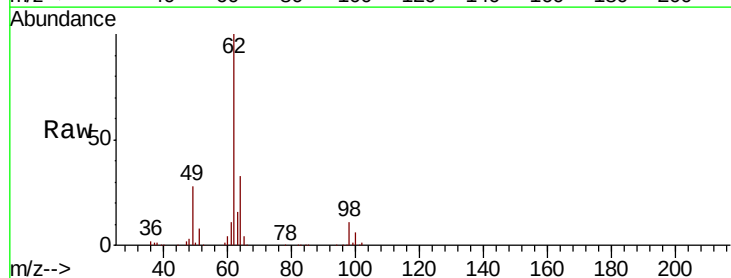
Instrument :
MSVOA_W
ClientSampled :

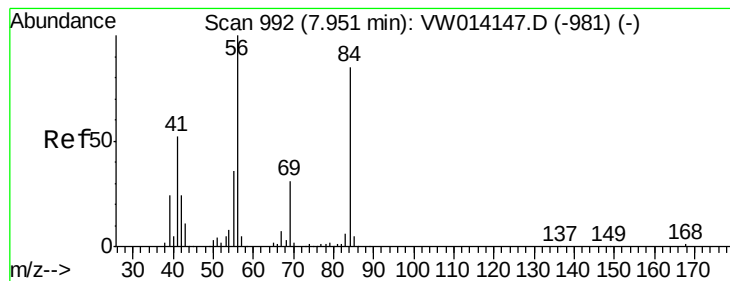
Tot Ion: 83 Resp: 218063
Ion Ratio Lower Upper
83 100
85 65.1 46.1 85.7



#27
1,2-Dichloroethane
Concen: 25.966 ug/L
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW014170.D
Acq: 29 Nov 2019 09:27

Tgt Ion: 62 Resp: 135805
Ion Ratio Lower Upper
62 100
98 10.7 9.3 13.9





#30

Cyclohexane

Concen: 22.095 ug/L

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW014170.D

Acq: 29 Nov 2019 09:27

Instrument :
MSVOA_W
ClientSampled :

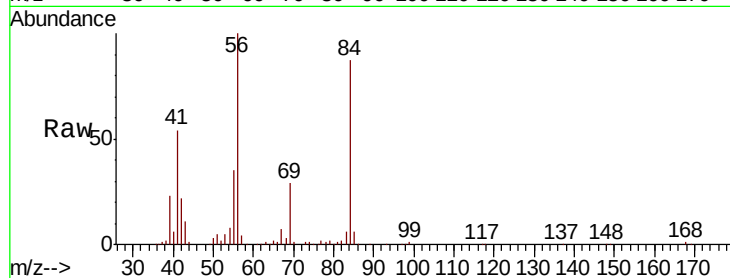
Tot Ion: 56 Resp: 202334

Ion Ratio Lower Upper

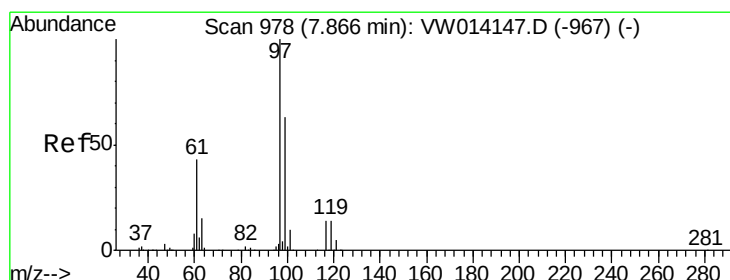
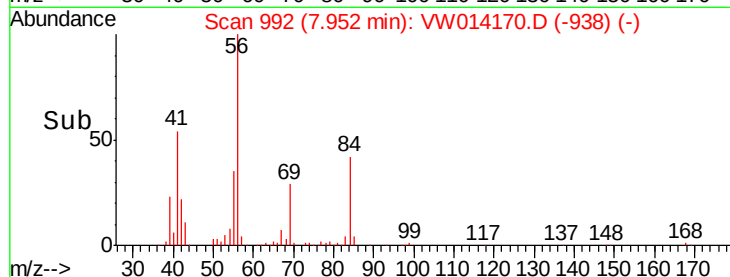
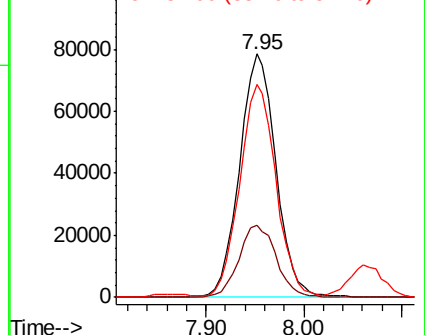
56 100

69 30.5 24.6 37.0

84 86.2 70.2 105.2



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



#31

1,1,1-Trichloroethane

Concen: 24.563 ug/L

RT: 7.87 min Scan# 979

Delta R.T. 0.01 min

Lab File: VW014170.D

Acq: 29 Nov 2019 09:27

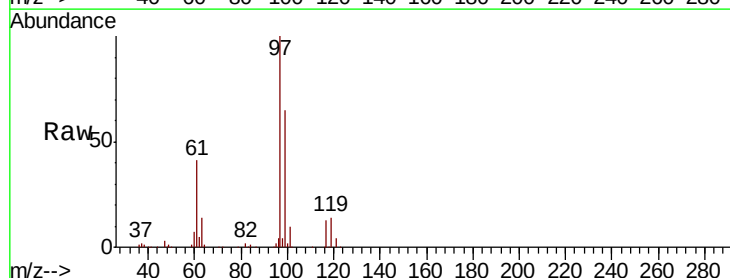
Tgt Ion: 97 Resp: 176148

Ion Ratio Lower Upper

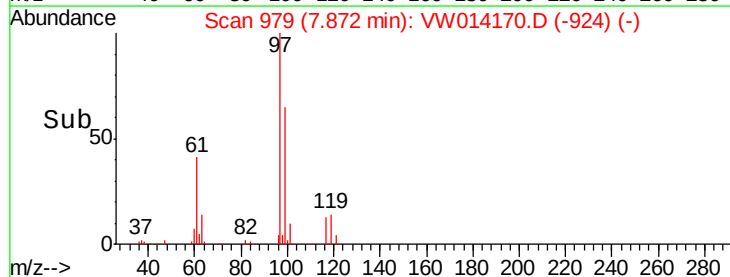
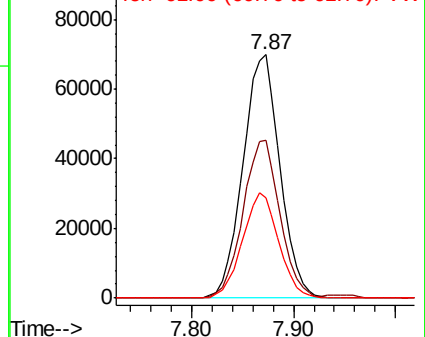
97 100

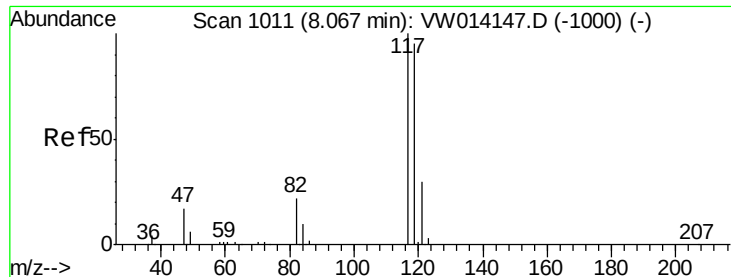
99 64.8 51.1 76.7

61 42.3 32.8 49.2



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

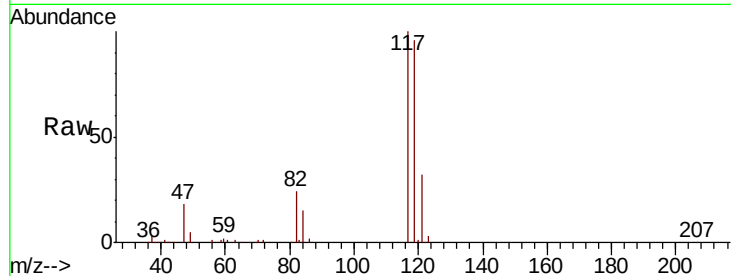




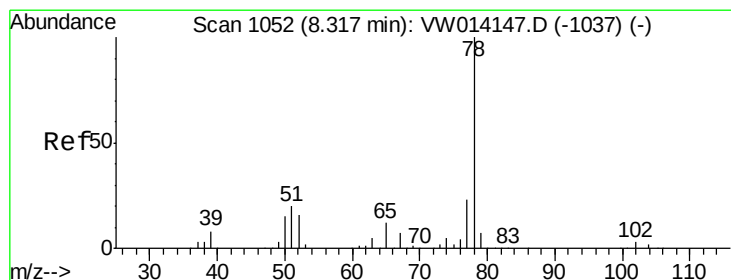
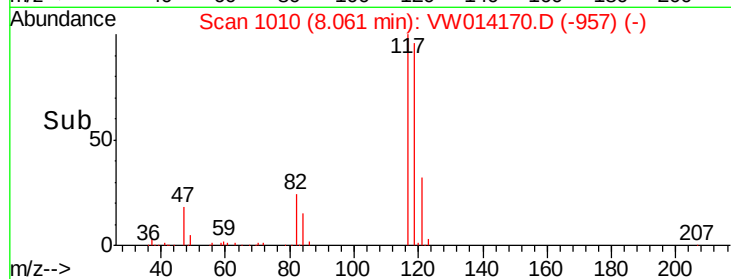
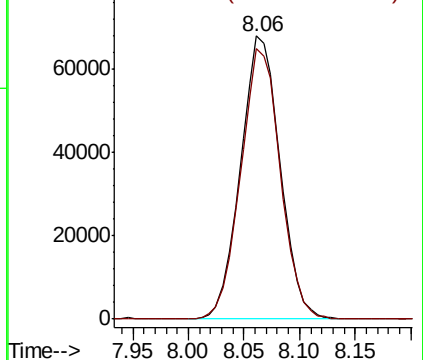
#32
Carbon tetrachloride
Concen: 24.393 ug/L
RT: 8.06 min Scan# 1010
Delta R.T. -0.01 min
Lab File: VW014170.D
Acq: 29 Nov 2019 09:27

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:117 Resp: 167926
Ion Ratio Lower Upper
117 100
119 95.7 76.7 115.1

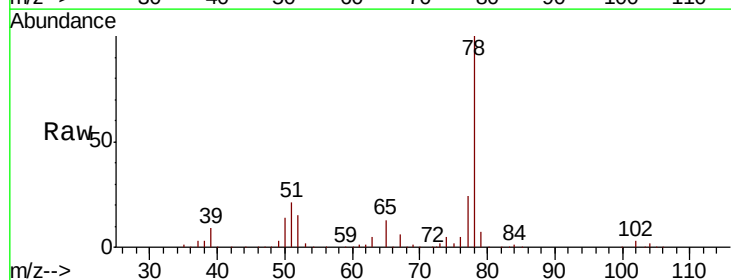


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V

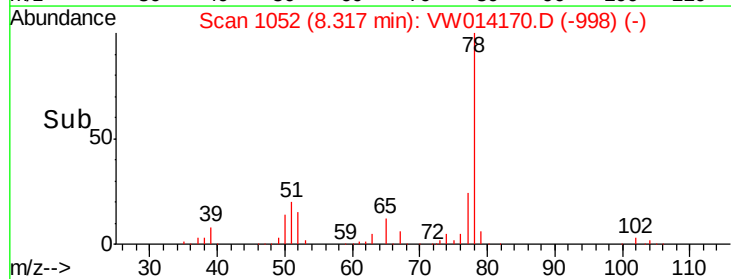
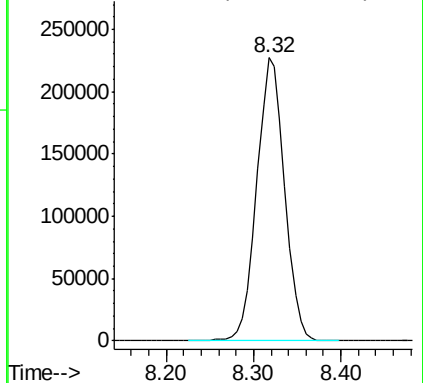


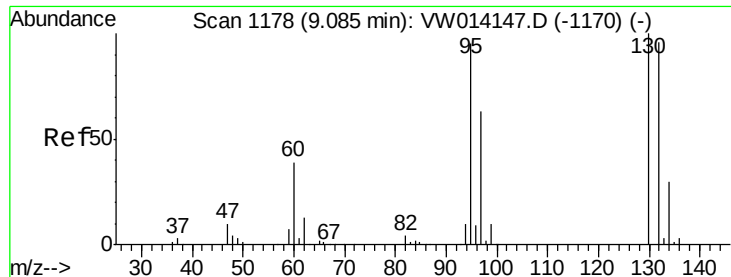
#34
Benzene
Concen: 23.917 ug/L
RT: 8.32 min Scan# 1052
Delta R.T. 0.00 min
Lab File: VW014170.D
Acq: 29 Nov 2019 09:27

Tgt Ion: 78 Resp: 502007



Abundance Ion 78.00 (77.70 to 78.70): VW

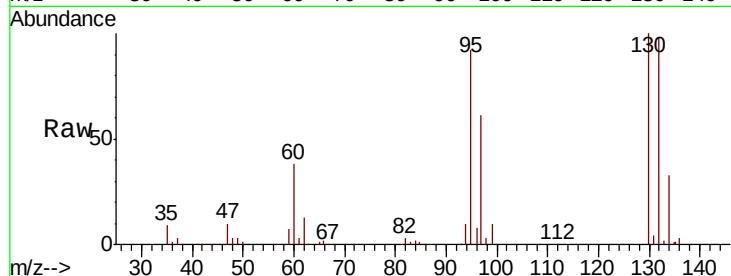




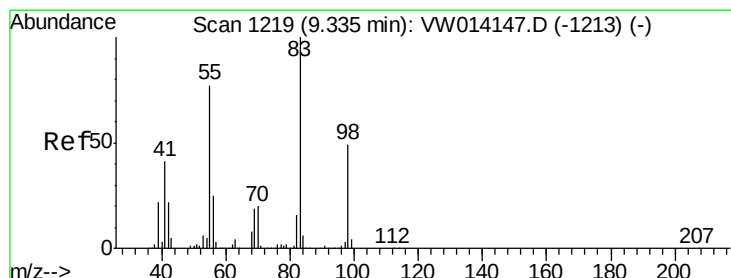
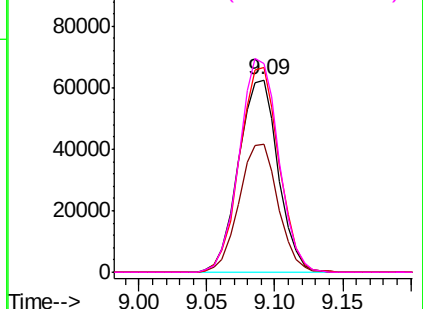
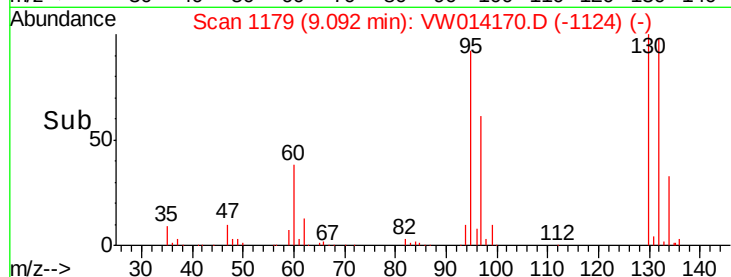
#35
 Trichloroethene
 Concen: 22.769 ug/L
 RT: 9.09 min Scan# 1179
 Delta R.T. 0.01 min
 Lab File: VW014170.D
 Acq: 29 Nov 2019 09:27

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion: 95 Resp: 127484
 Ion Ratio Lower Upper
 95 100
 97 65.9 45.1 83.9
 132 105.7 73.7 136.9
 130 109.9 76.6 142.2

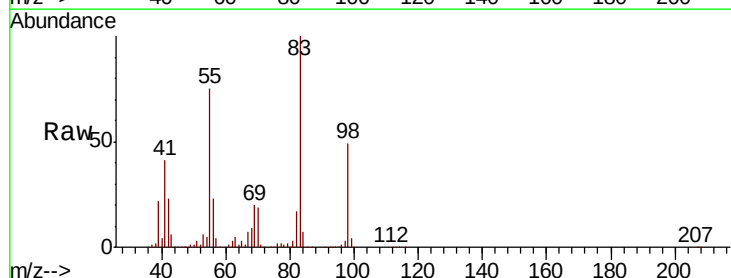


Abundance Ion 95.00 (94.70 to 95.70): VW
 Ion 97.00 (96.70 to 97.70): VW
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

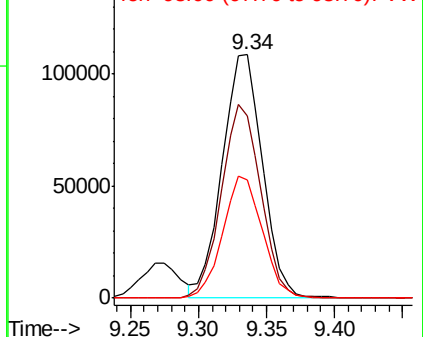
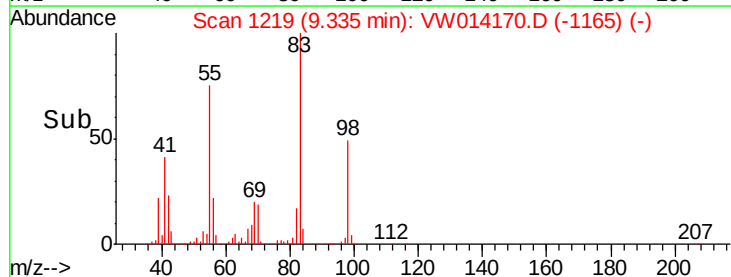


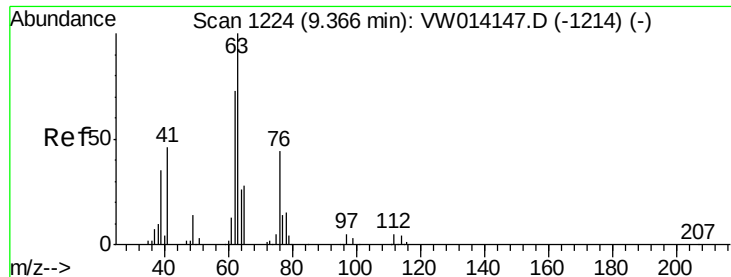
#36
 Methylcyclohexane
 Concen: 22.336 ug/L
 RT: 9.34 min Scan# 1219
 Delta R.T. 0.00 min
 Lab File: VW014170.D
 Acq: 29 Nov 2019 09:27

Tgt Ion: 83 Resp: 224227
 Ion Ratio Lower Upper
 83 100
 55 77.3 59.8 89.8
 98 49.1 39.5 59.3



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: 24.096 ug/L

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW014170.D

Acq: 29 Nov 2019 09:27

Instrument :

MSVOA_W

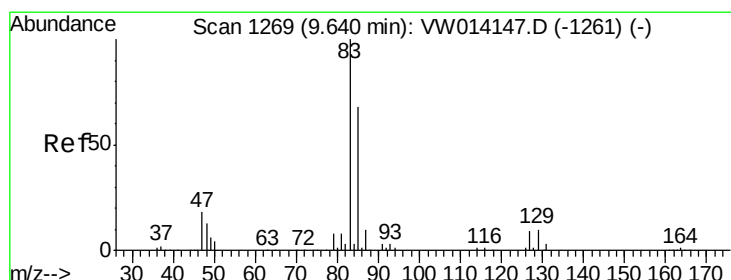
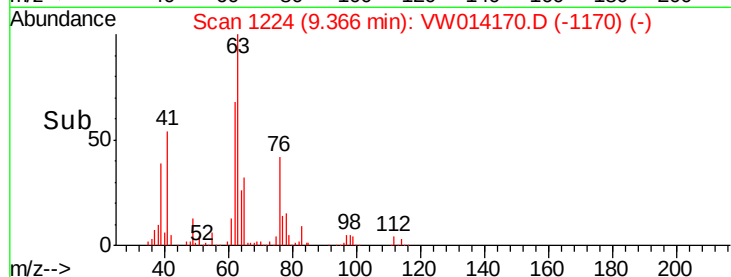
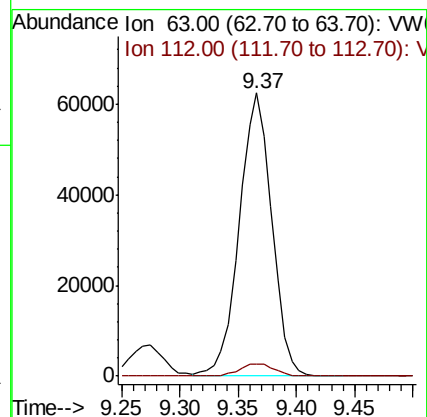
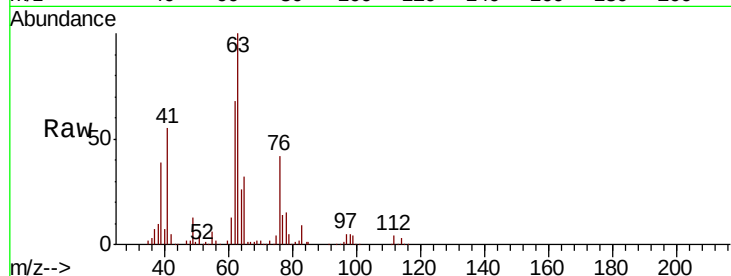
ClientSampleId :

Tot Ion: 63 Resp: 121751

Ion Ratio Lower Upper

63 100

112 4.8 3.9 5.9



#41

Bromodichloromethane

Concen: 24.673 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW014170.D

Acq: 29 Nov 2019 09:27

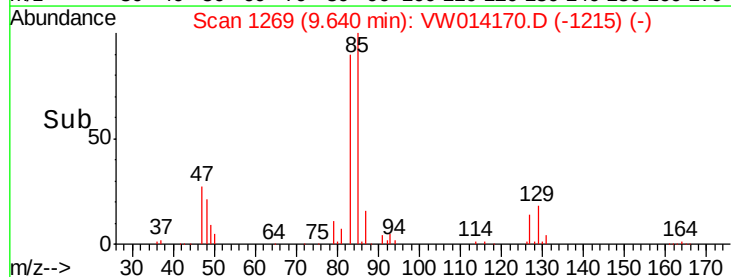
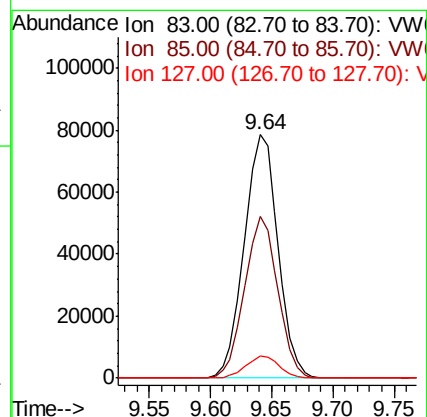
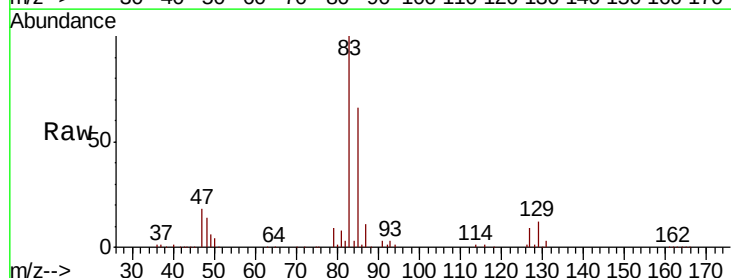
Tgt Ion: 83 Resp: 150715

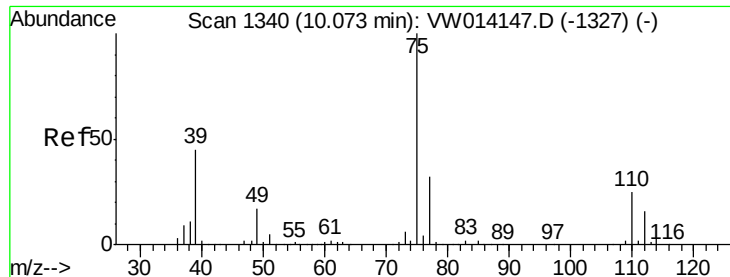
Ion Ratio Lower Upper

83 100

85 66.2 45.1 83.7

127 9.0 7.4 11.0





#42

cis-1,3-Dichloropropene

Concen: 23.663 ug/L

RT: 10.07 min Scan# 1339

Delta R.T. -0.01 min

Lab File: VW014170.D

Acq: 29 Nov 2019 09:27

Instrument :

MSVOA_W

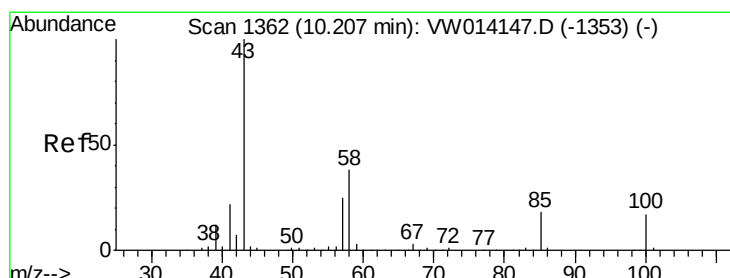
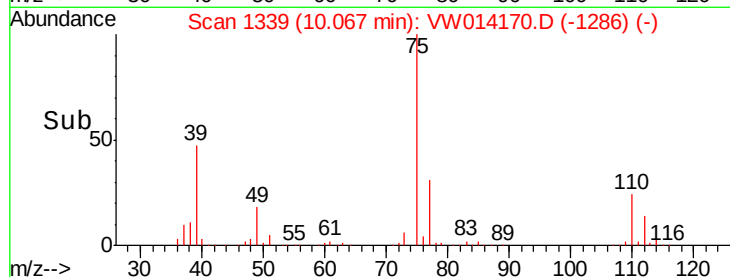
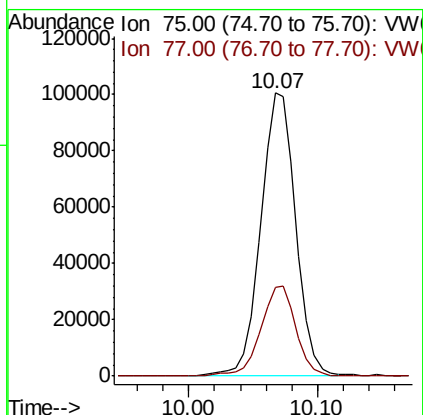
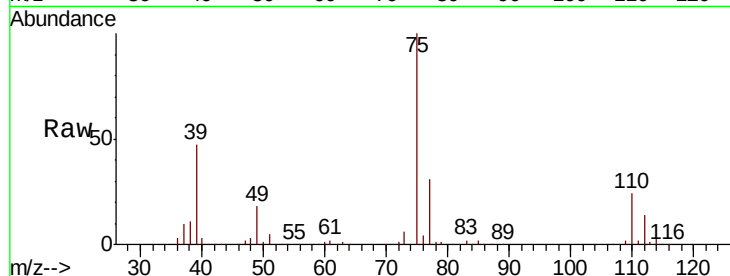
ClientSampled :

Tot Ion: 75 Resp: 188684

Ion Ratio Lower Upper

75 100

77 31.5 22.1 41.1



#43

4-Methyl-2-pentanone

Concen: 45.475 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW014170.D

Acq: 29 Nov 2019 09:27

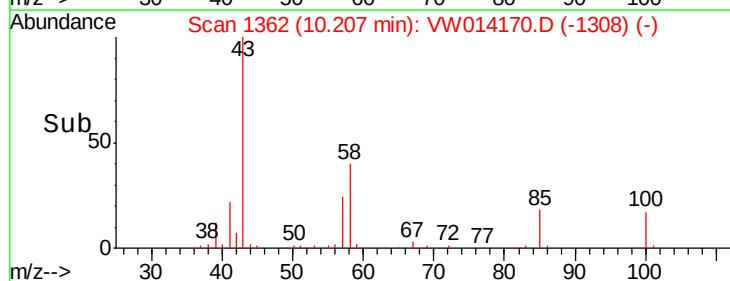
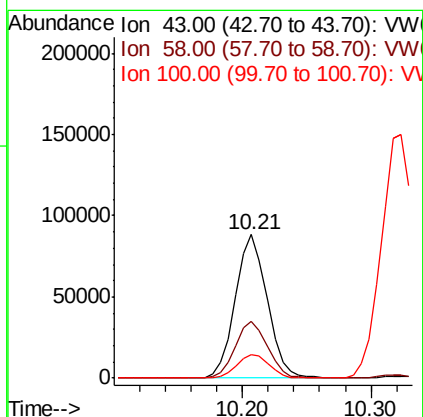
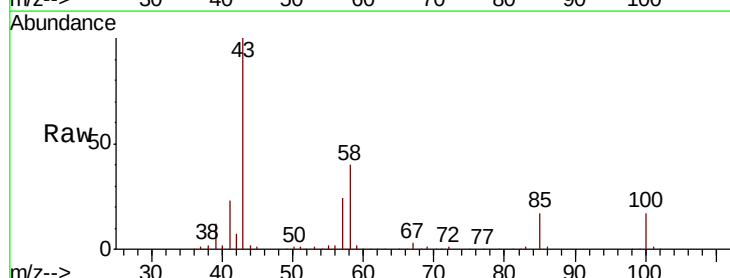
Tgt Ion: 43 Resp: 151709

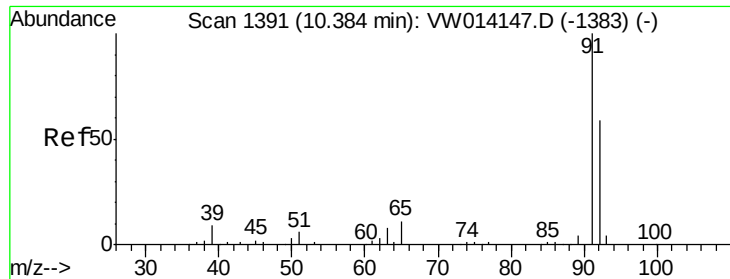
Ion Ratio Lower Upper

43 100

58 39.9 32.6 49.0

100 16.5 13.8 20.8





#44

Toluene

Concen: 23.477 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW014170.D

Acq: 29 Nov 2019 09:27

Instrument :

MSVOA_W

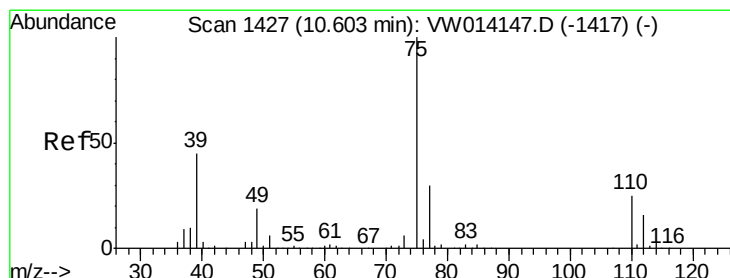
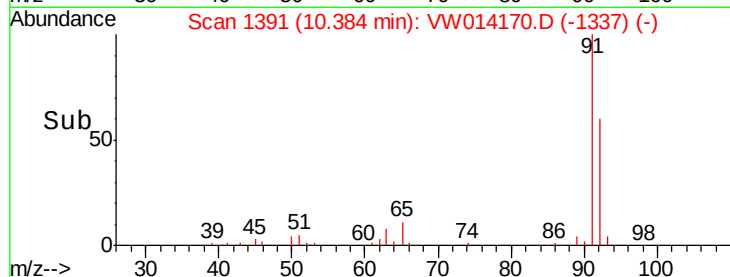
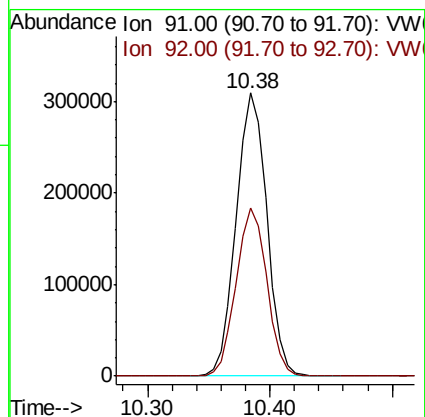
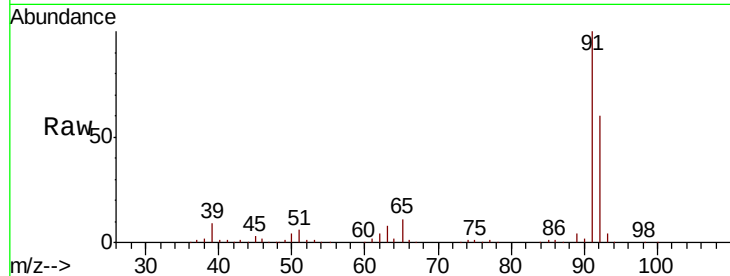
ClientSampleId :

Tot Ion: 91 Resp: 537264

Ion Ratio Lower Upper

91 100

92 59.6 40.7 75.7



#45

trans-1,3-Dichloropropene

Concen: 23.739 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW014170.D

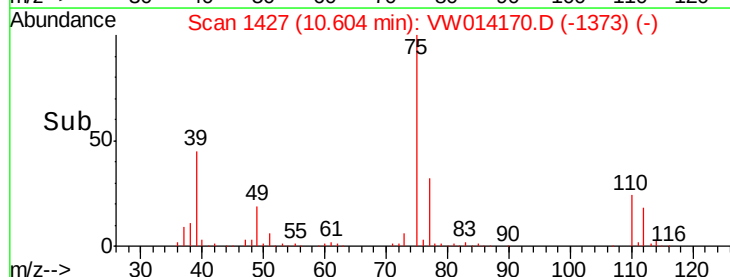
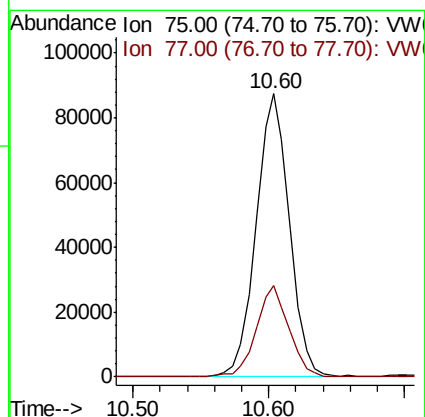
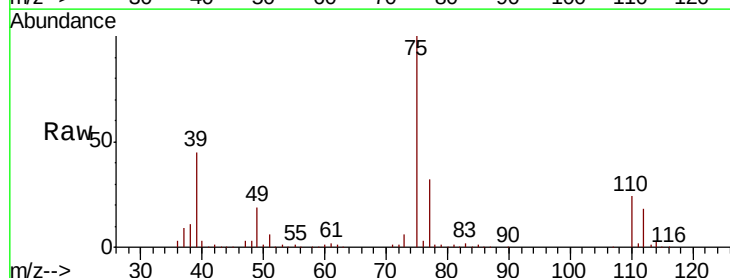
Acq: 29 Nov 2019 09:27

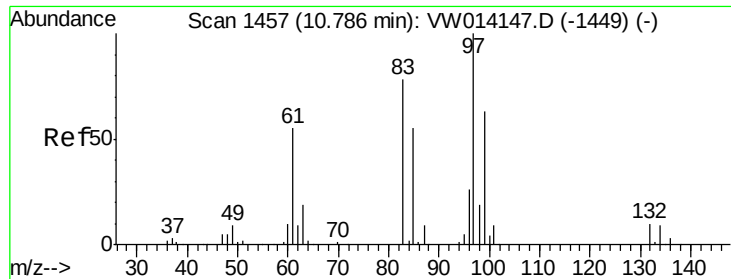
Tgt Ion: 75 Resp: 149688

Ion Ratio Lower Upper

75 100

77 32.2 21.8 40.6

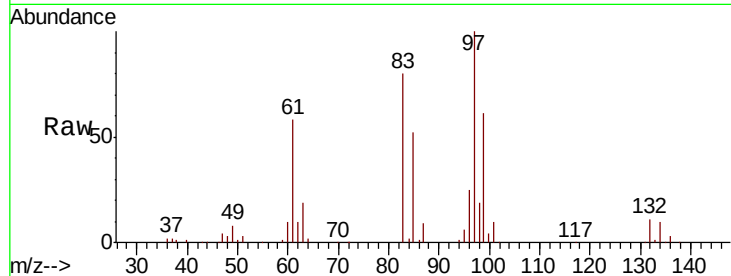




#46
1,1,2-Trichloroethane
Concen: 24.119 ug/L
RT: 10.79 min Scan# 1457
Delta R.T. 0.00 min
Lab File: VW014170.D
Acq: 29 Nov 2019 09:27

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:	97	Resp:	89544
Ion	Ratio	Lower	Upper
97	100		
83	79.7	58.9	109.5
85	51.6	38.1	70.9
99	61.0	46.5	86.3



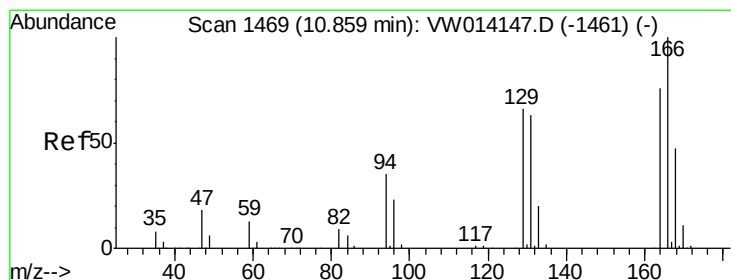
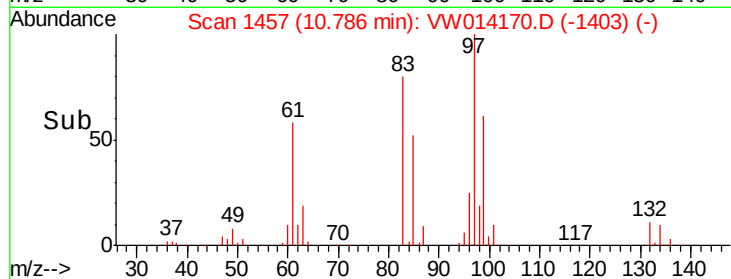
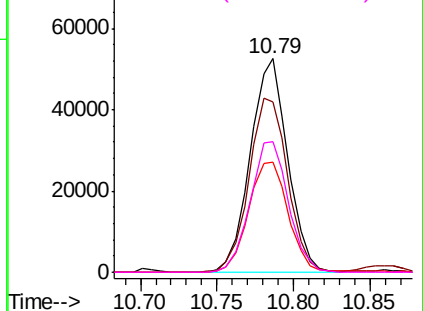
Abundance

Ion 97.00 (96.70 to 97.70): VW

Ion 83.00 (82.70 to 83.70): VW

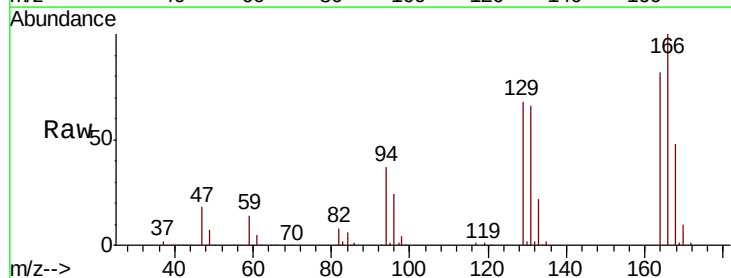
Ion 85.00 (84.70 to 85.70): VW

Ion 99.00 (98.70 to 99.70): VW



#47
Tetrachloroethene
Concen: 23.687 ug/L
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW014170.D
Acq: 29 Nov 2019 09:27

Tgt Ion:	164	Resp:	118209
Ion	Ratio	Lower	Upper
164	100		
129	83.7	60.6	112.6
131	80.1	59.1	109.7
166	122.3	90.8	168.6



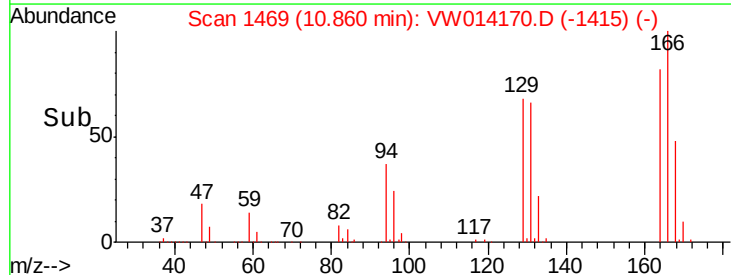
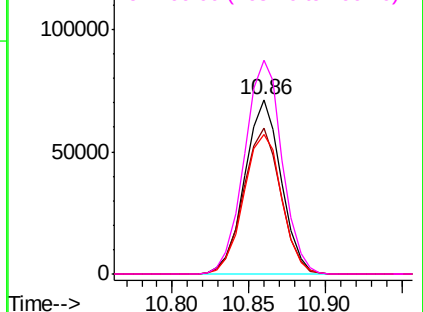
Abundance

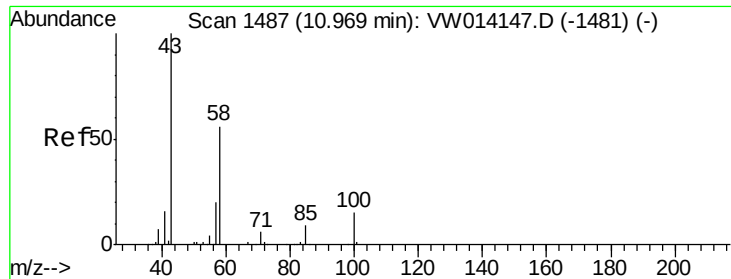
Ion 164.00 (163.70 to 164.70): V

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

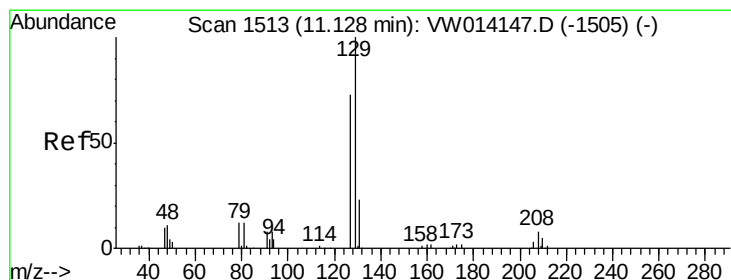
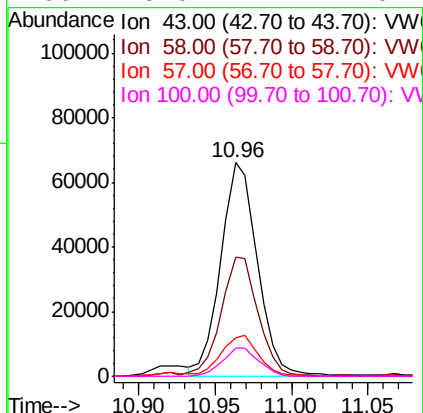
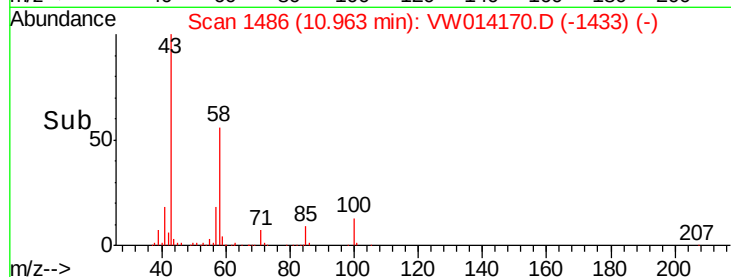
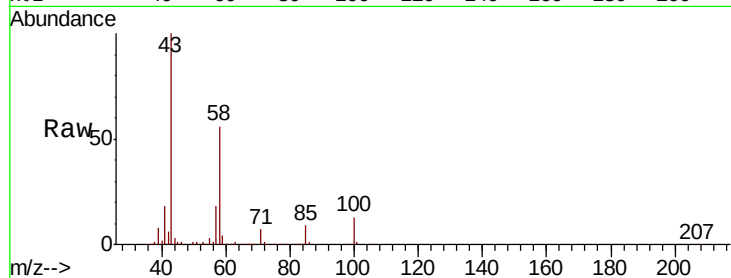




#49
2-Hexanone
Concen: 45.823 ug/L
RT: 10.96 min Scan# 1486
Delta R.T. -0.01 min
Lab File: VW014170.D
Acq: 29 Nov 2019 09:27

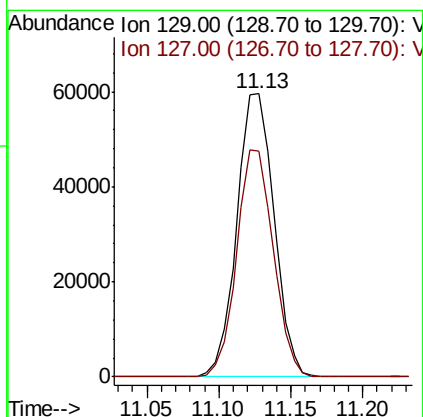
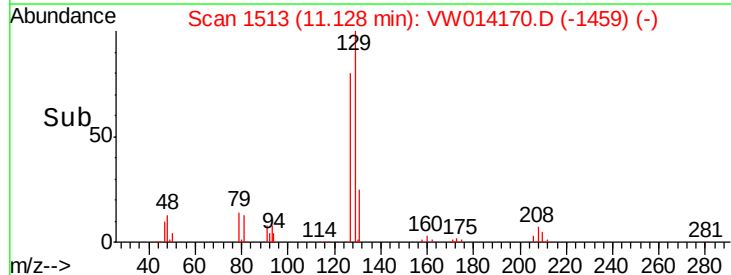
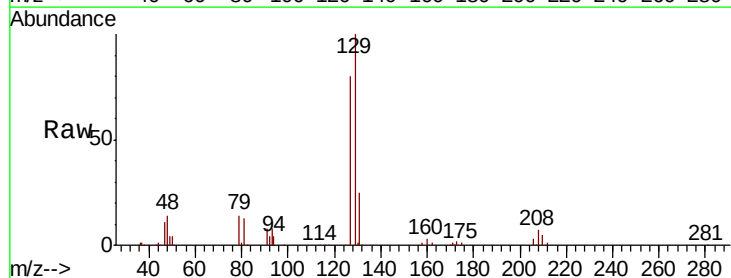
Instrument :
MSVOA_W
ClientSampled :

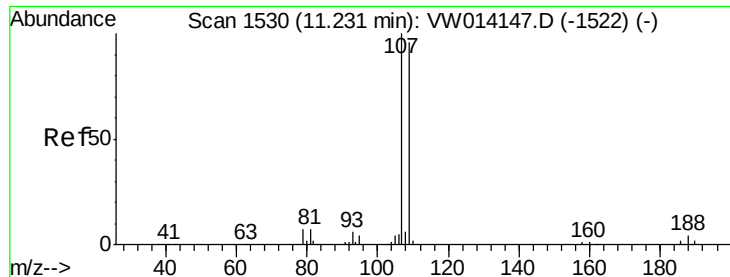
Tot Ion: 43 Resp: 110211
Ion Ratio Lower Upper
43 100
58 56.5 44.4 66.6
57 18.9 16.5 24.7
100 13.0 11.1 16.7



#50
Dibromochloromethane
Concen: 24.568 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW014170.D
Acq: 29 Nov 2019 09:27

Tgt Ion: 129 Resp: 107208
Ion Ratio Lower Upper
129 100
127 79.9 54.9 102.1

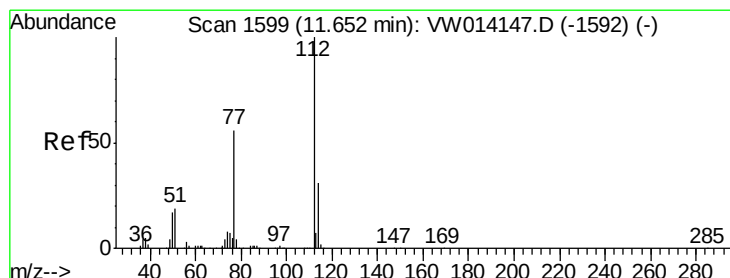
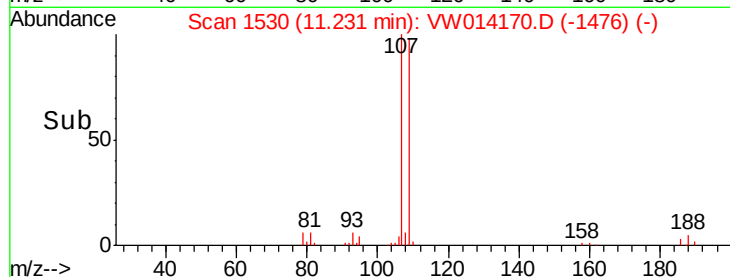
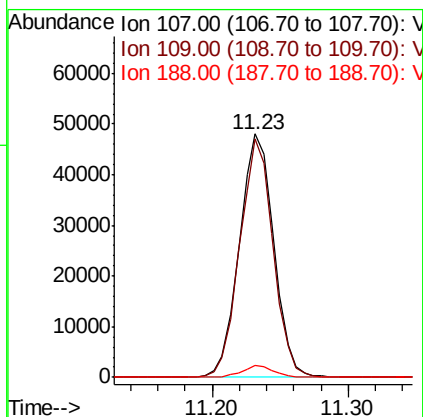
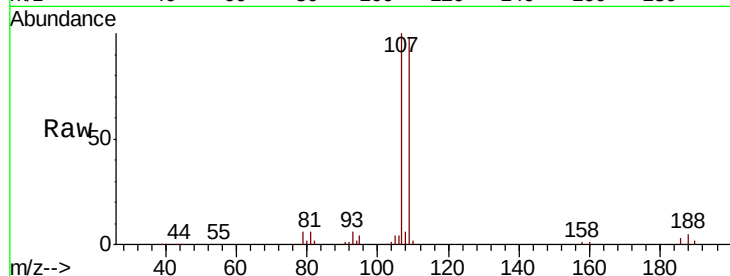




#51
1,2-Dibromoethane
Concen: 23.601 ug/L
RT: 11.23 min Scan# 1530
Delta R.T. 0.00 min
Lab File: VW014170.D
Acq: 29 Nov 2019 09:27

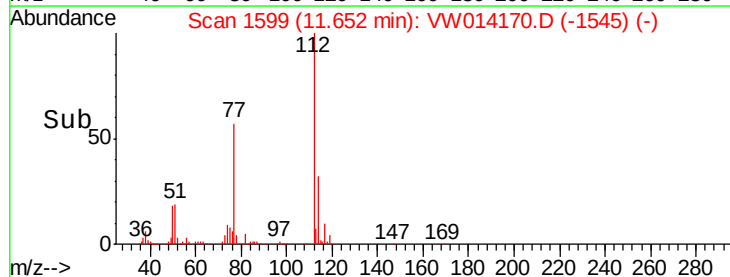
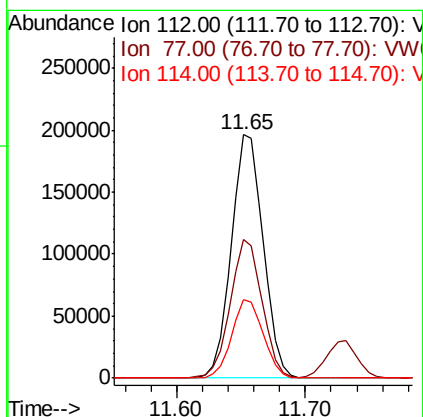
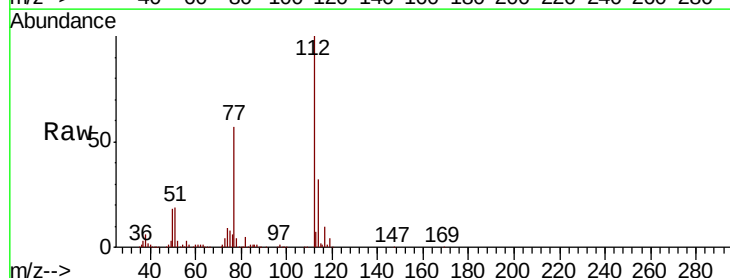
Instrument :
MSVOA_W
ClientSampleId :

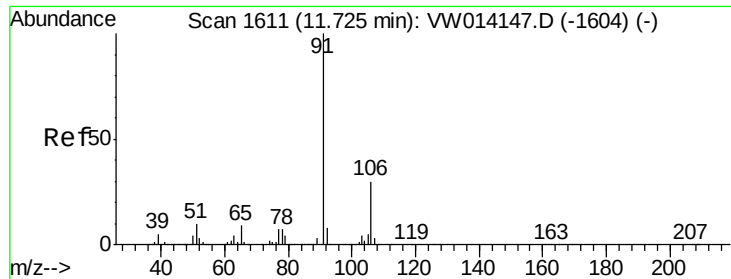
Tot Ion:107 Resp: 85012
Ion Ratio Lower Upper
107 100
109 97.7 64.6 120.0
188 5.0 3.9 5.9



#52
Chlorobenzene
Concen: 23.543 ug/L
RT: 11.65 min Scan# 1599
Delta R.T. 0.00 min
Lab File: VW014170.D
Acq: 29 Nov 2019 09:27

Tgt Ion:112 Resp: 337764
Ion Ratio Lower Upper
112 100
77 56.9 42.2 63.4
114 32.1 22.5 41.9

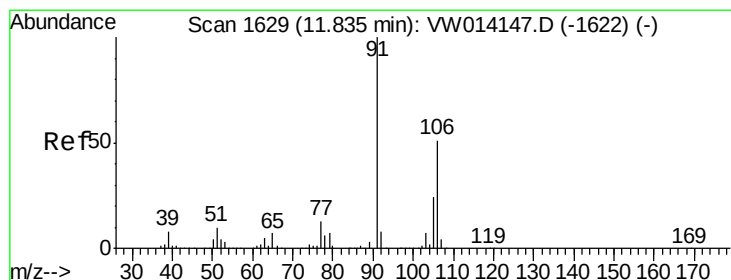
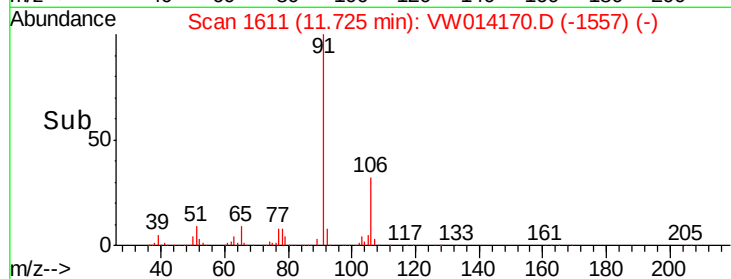
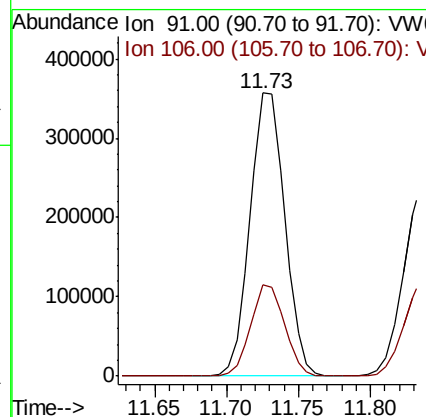
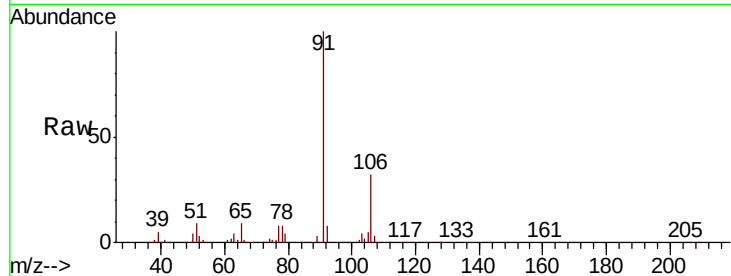




#53
Ethylbenzene
Concen: 23.703 ug/L
RT: 11.73 min Scan# 1611
Delta R.T. 0.00 min
Lab File: VW014170.D
Acq: 29 Nov 2019 09:27

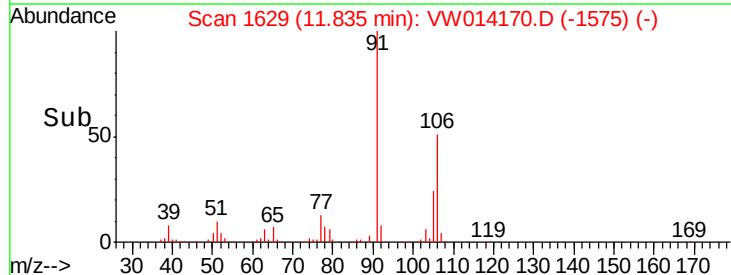
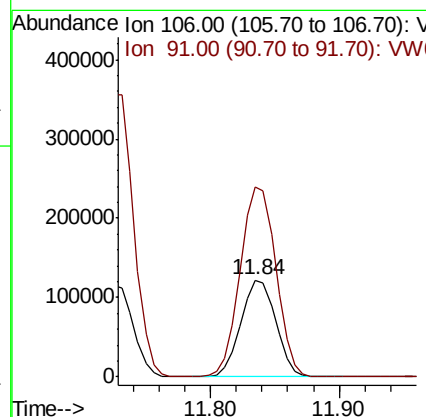
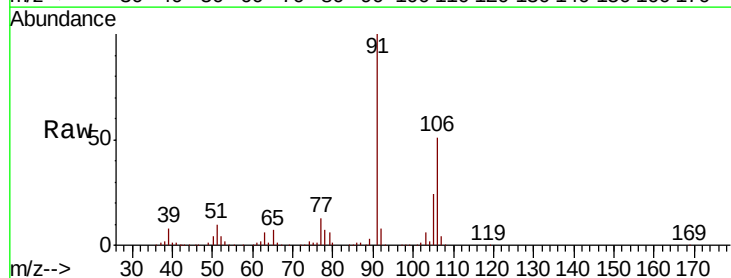
Instrument :
MSVOA_W
ClientSampled :

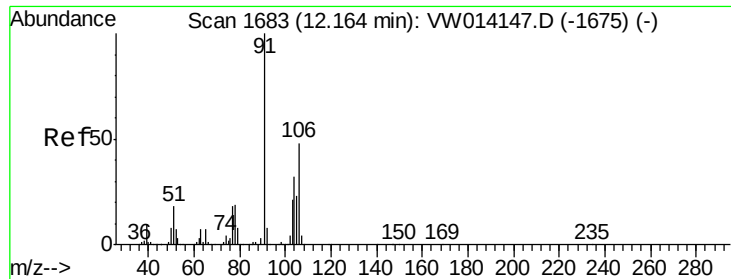
Tot Ion: 91 Resp: 595239
Ion Ratio Lower Upper
91 100
106 32.3 22.3 41.5



#54
m,p-Xylene
Concen: 23.497 ug/L
RT: 11.84 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VW014170.D
Acq: 29 Nov 2019 09:27

Tgt Ion: 106 Resp: 229314
Ion Ratio Lower Upper
106 100
91 195.1 138.7 257.5





#55

o-xylene

Concen: 23.564 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW014170.D

Acq: 29 Nov 2019 09:27

Instrument :

MSVOA_W

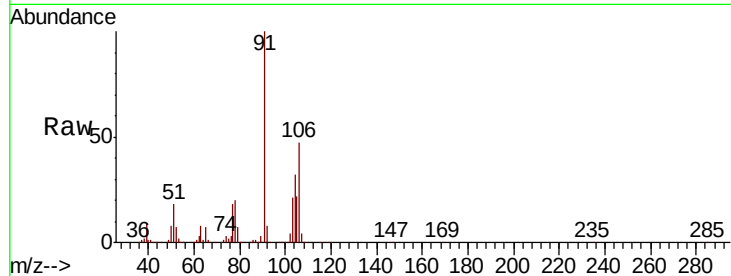
ClientSampleId :

Tot Ion:106 Resp: 215348

Ion Ratio Lower Upper

106 100

91 212.8 148.3 275.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

300000

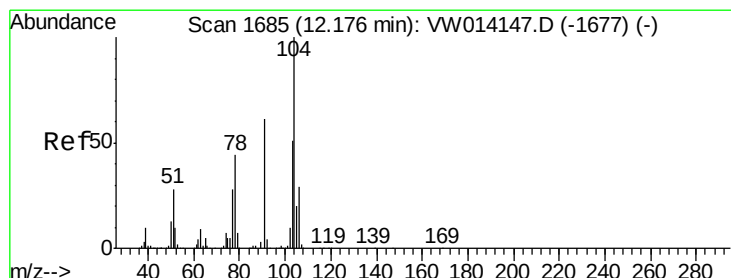
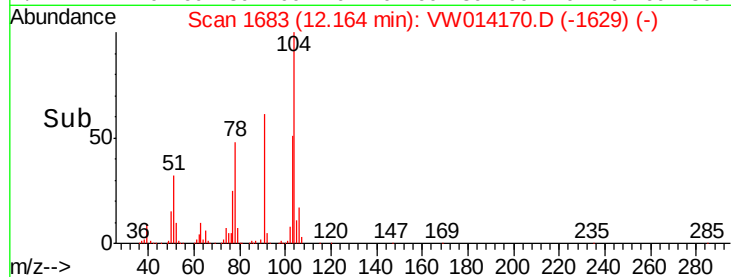
200000

100000

0

12.10 12.15 12.20

Time-->



#56

Styrene

Concen: 24.216 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. 0.00 min

Lab File: VW014170.D

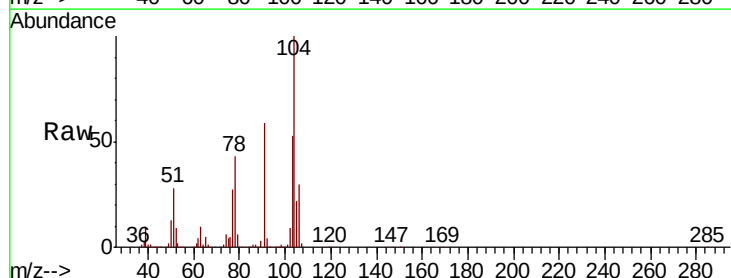
Acq: 29 Nov 2019 09:27

Tgt Ion:104 Resp: 373854

Ion Ratio Lower Upper

104 100

78 43.5 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW

250000

200000

150000

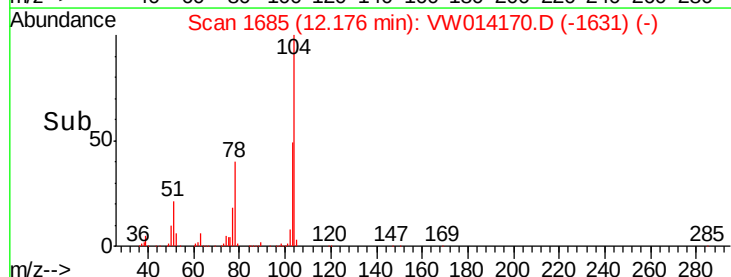
100000

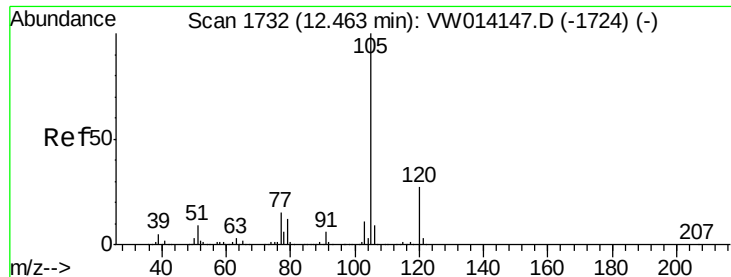
50000

0

12.10 12.20 12.30

Time-->





#57

Isopropylbenzene

Concen: 23.905 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW014170.D

Acq: 29 Nov 2019 09:27

Instrument :

MSVOA_W

ClientSampled :

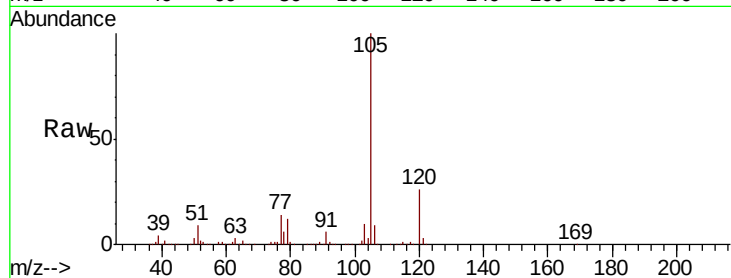
Tot Ion:105 Resp: 600660

Ion Ratio Lower Upper

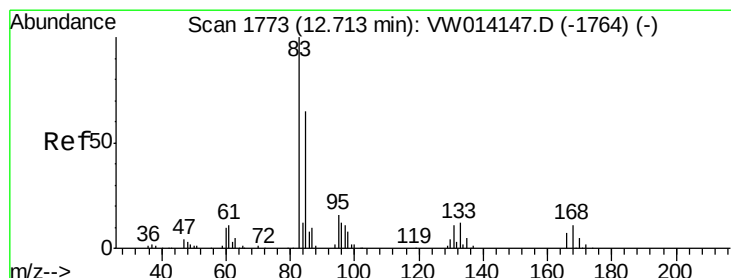
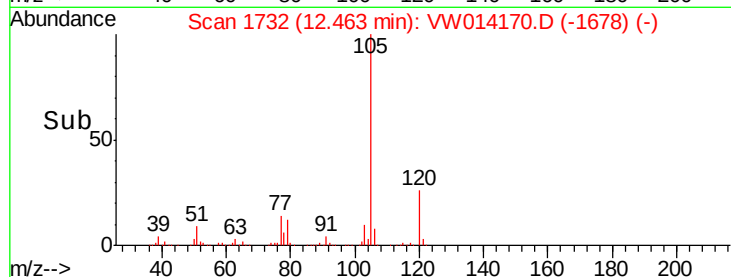
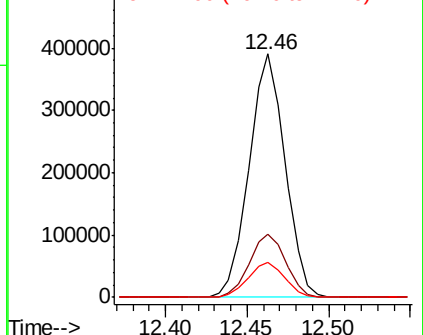
105 100

120 26.4 21.6 32.4

77 14.6 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: 24.433 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW014170.D

Acq: 29 Nov 2019 09:27

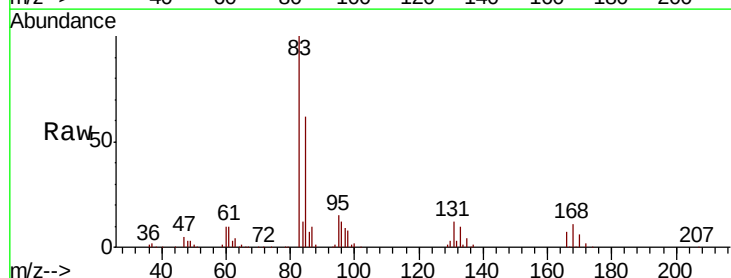
Tgt Ion: 83 Resp: 105904

Ion Ratio Lower Upper

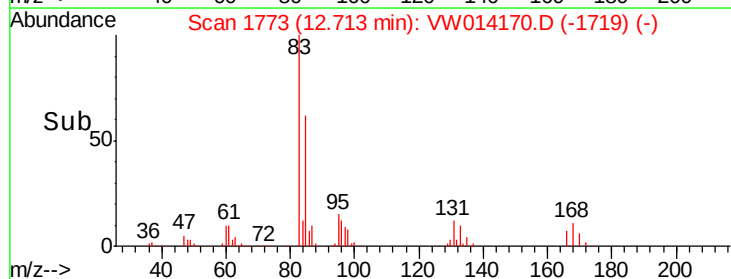
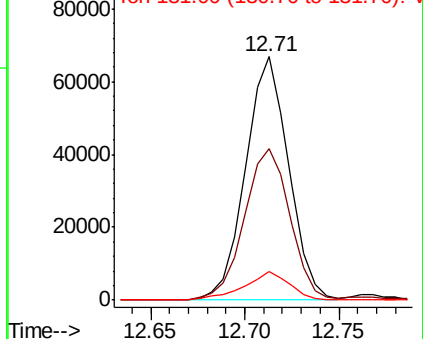
83 100

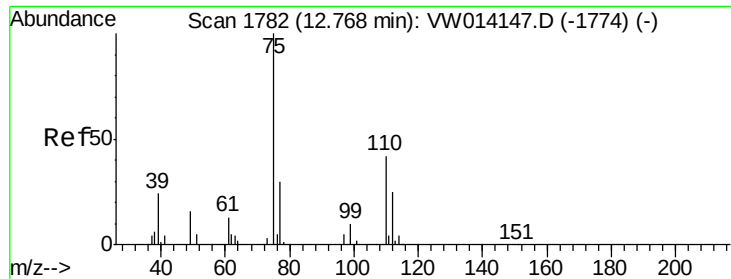
85 62.4 43.7 81.1

131 11.5 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: 24.019 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW014170.D

Acq: 29 Nov 2019 09:27

Instrument :

MSVOA_W

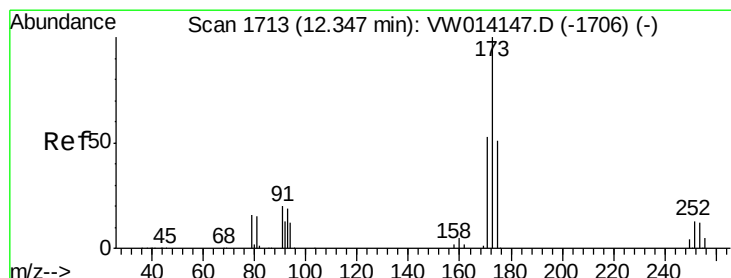
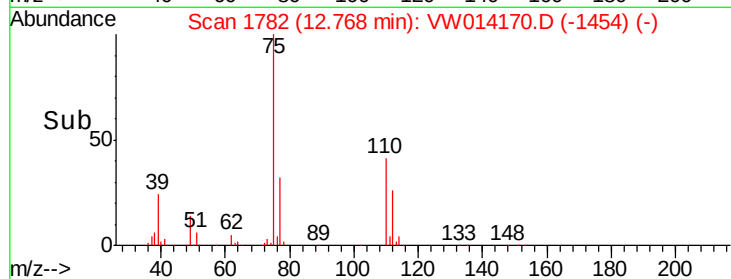
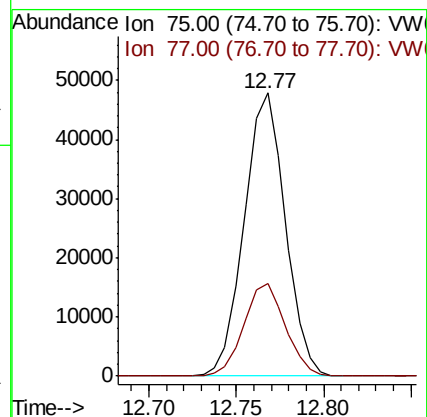
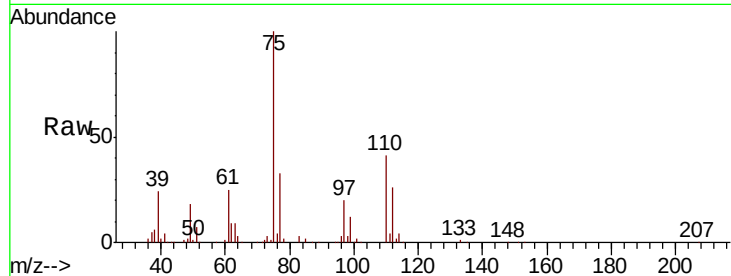
ClientSampled :

Tot Ion: 75 Resp: 78299

Ion Ratio Lower Upper

75 100

77 33.1 25.9 38.9



#62

Bromoform

Concen: 23.520 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW014170.D

Acq: 29 Nov 2019 09:27

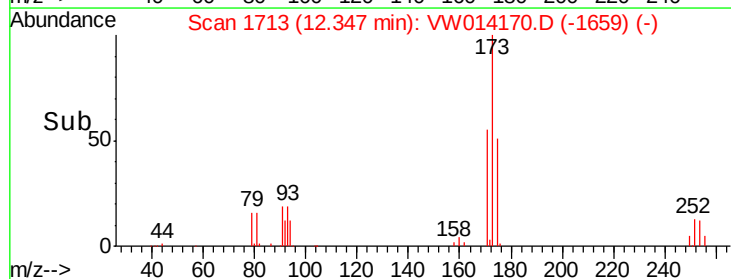
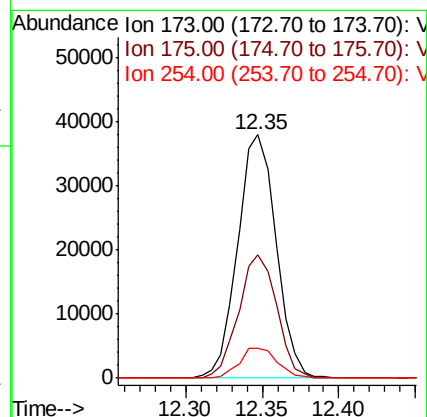
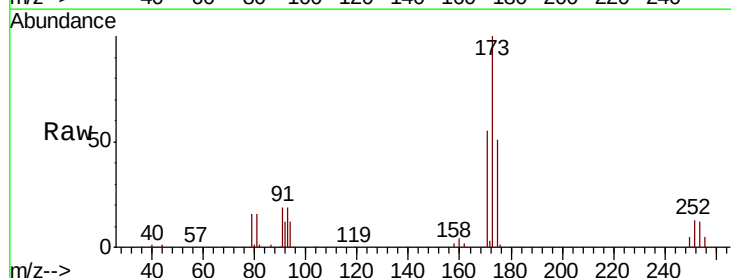
Tgt Ion: 173 Resp: 66349

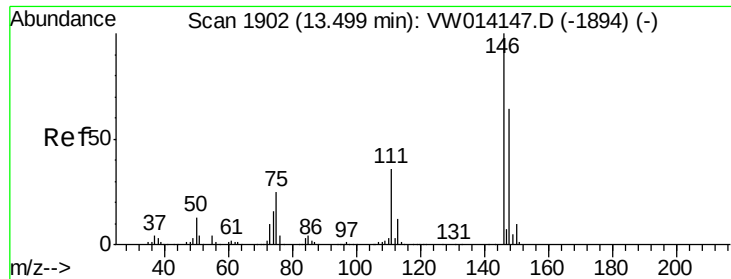
Ion Ratio Lower Upper

173 100

175 50.1 38.8 58.2

254 12.2 9.4 14.0





#63

1,3-Dichlorobenzene

Concen: 22.740 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW014170.D

Acq: 29 Nov 2019 09:27

Instrument :

MSVOA_W

ClientSampled :

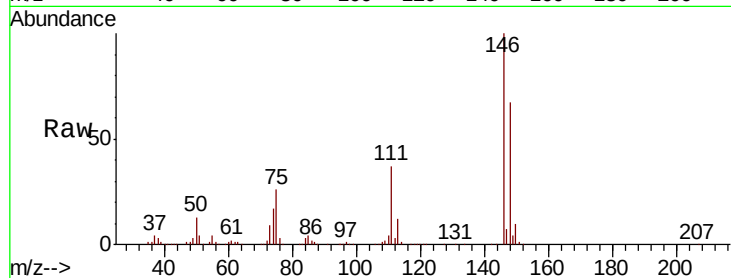
Tot Ion:146 Resp: 274860

Ion Ratio Lower Upper

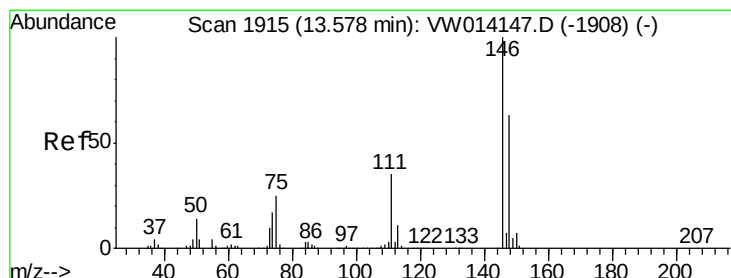
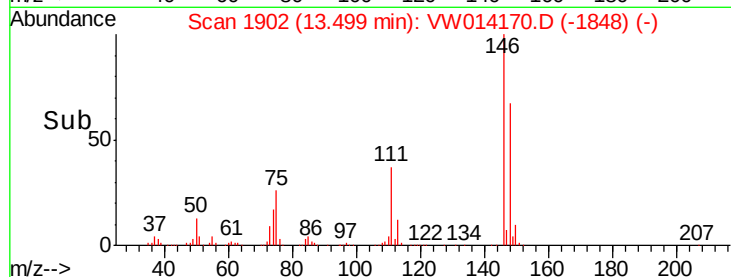
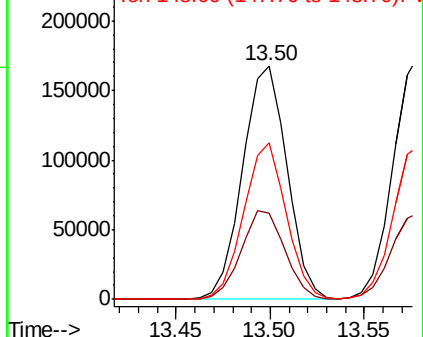
146 100

111 37.0 26.0 48.2

148 66.8 44.7 82.9



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



#64

1,4-Dichlorobenzene

Concen: 23.196 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. 0.00 min

Lab File: VW014170.D

Acq: 29 Nov 2019 09:27

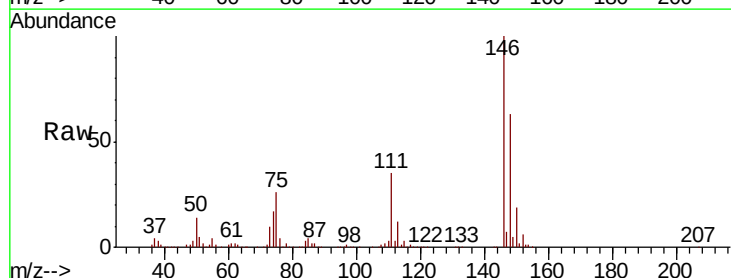
Tgt Ion:146 Resp: 277009

Ion Ratio Lower Upper

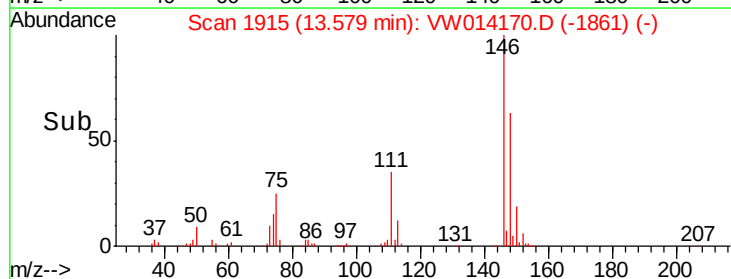
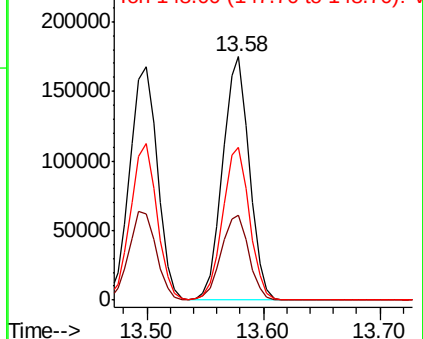
146 100

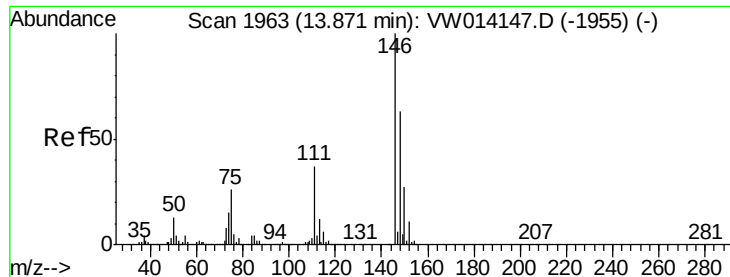
111 35.1 24.9 46.3

148 62.9 43.9 81.5



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

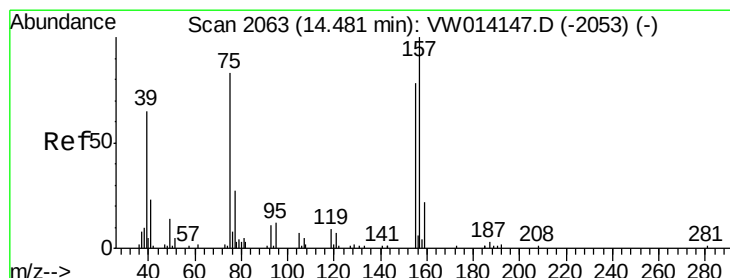
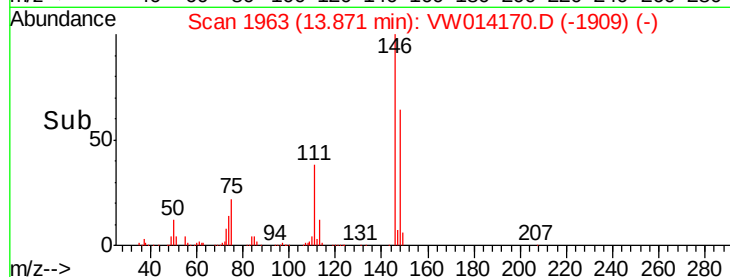
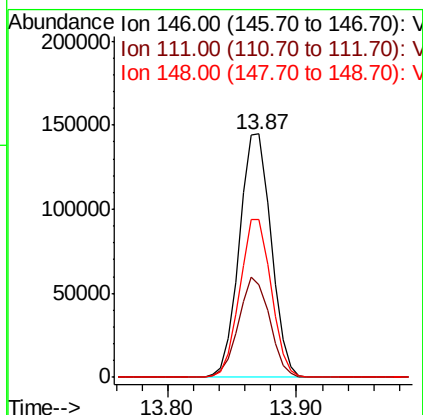
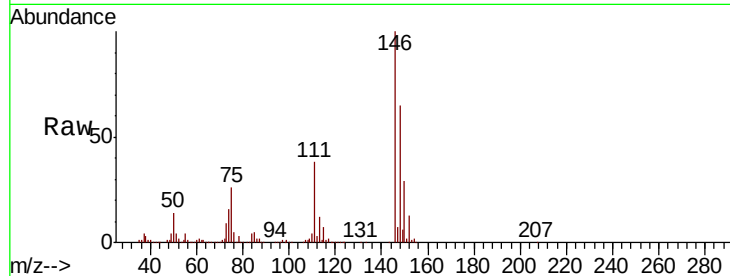




#65
 1,2-Dichlorobenzene
 Concen: 23.087 ug/L
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW014170.D
 Acq: 29 Nov 2019 09:27

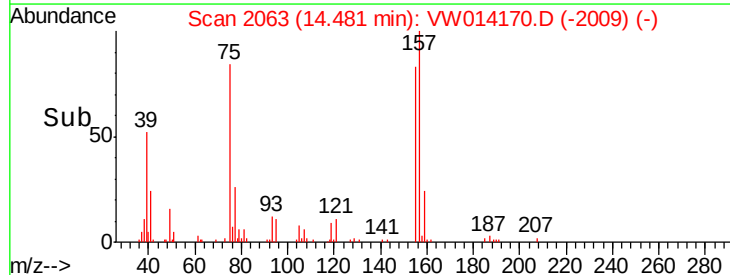
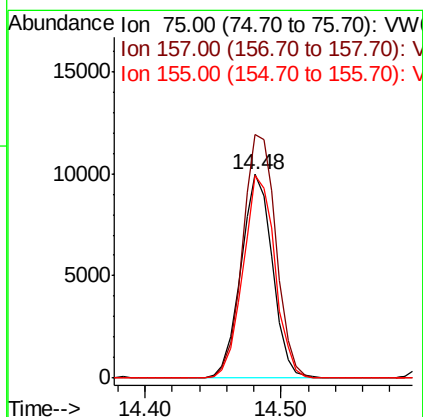
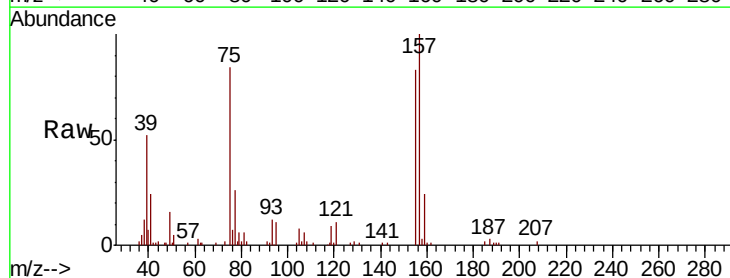
Instrument :
 MSVOA_W
 ClientSampleId :

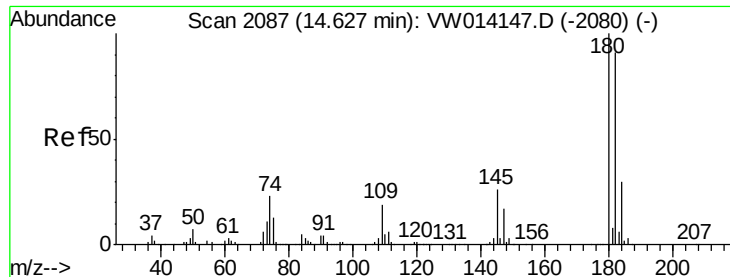
Tot Ion	Ratio	Lower	Upper
146	100		
111	38.2	30.5	45.7
148	64.6	49.4	74.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 22.159 ug/L
 RT: 14.48 min Scan# 2063
 Delta R.T. 0.00 min
 Lab File: VW014170.D
 Acq: 29 Nov 2019 09:27

Tgt Ion	Ratio	Lower	Upper
75	100		
157	119.6	96.9	145.3
155	99.7	82.9	124.3

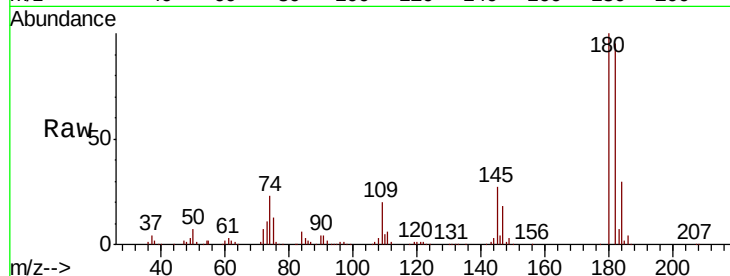




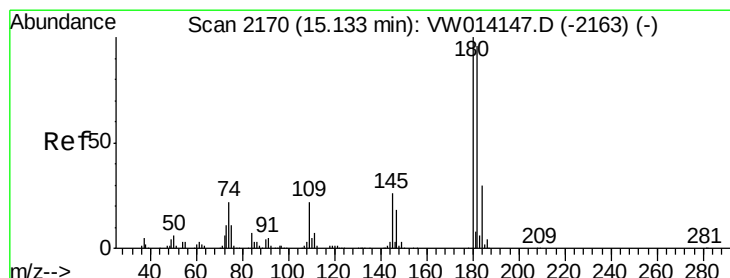
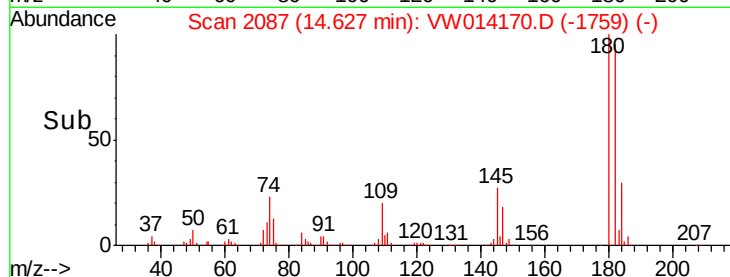
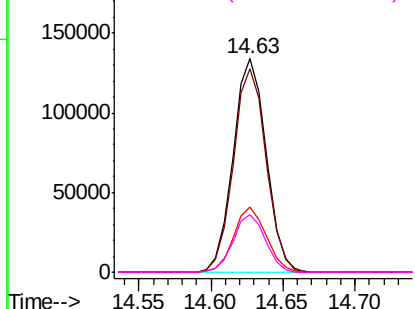
#67
 1,3,5-Trichlorobenzene
 Concen: 23.237 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW014170.D
 Acq: 29 Nov 2019 09:27

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:180	Resp:	214047
Ion Ratio	Lower	Upper
180	100	
182	94.6	76.2 114.2
184	30.1	24.3 36.5
145	26.4	21.9 32.9

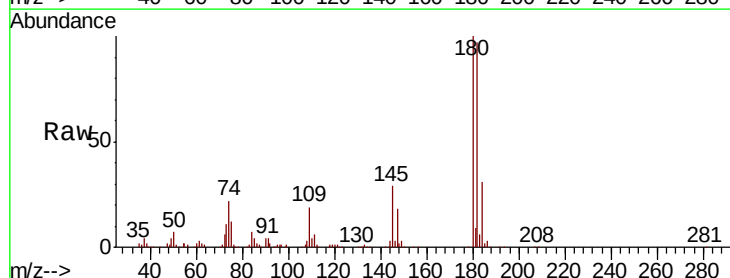


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

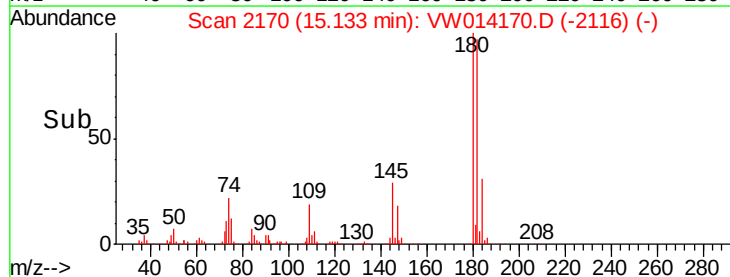
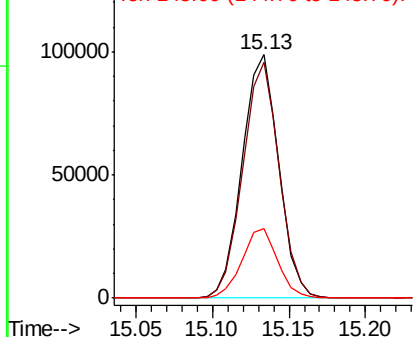


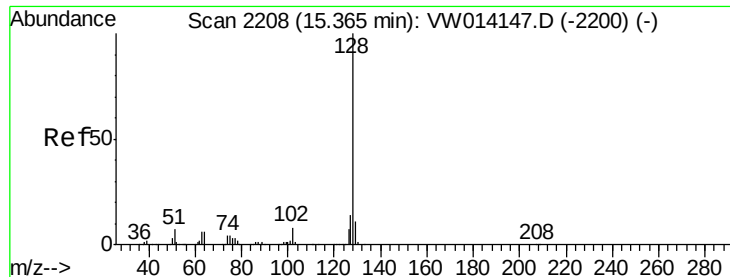
#68
 1,2,4-trichlorobenzene
 Concen: 22.679 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW014170.D
 Acq: 29 Nov 2019 09:27

Tgt Ion:180	Resp:	164261
Ion Ratio	Lower	Upper
180	100	
182	96.0	75.8 113.8
145	28.0	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: 21.843 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW014170.D

Acq: 29 Nov 2019 09:27

Instrument :

MSVOA_W

ClientSampleId :

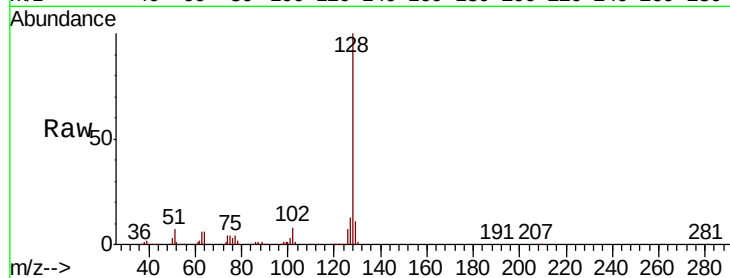
Tot Ion:128 Resp: 281069

Ion Ratio Lower Upper

128 100

129 11.2 8.8 13.2

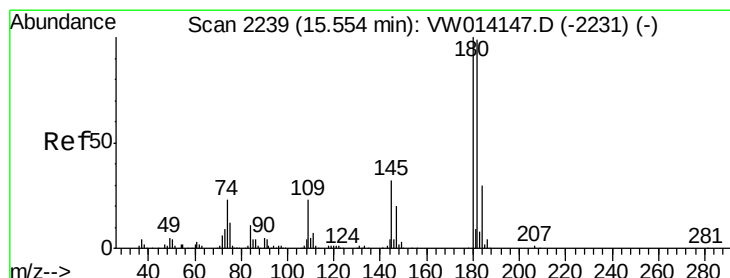
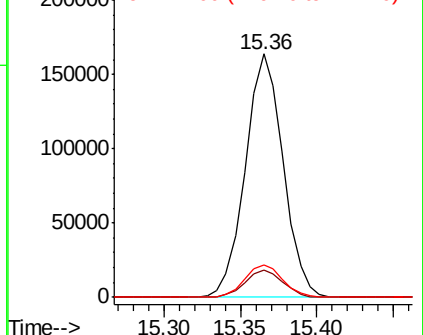
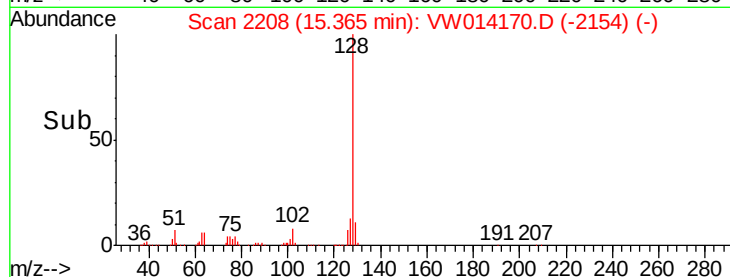
127 13.5 10.4 15.6



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: 23.007 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW014170.D

Acq: 29 Nov 2019 09:27

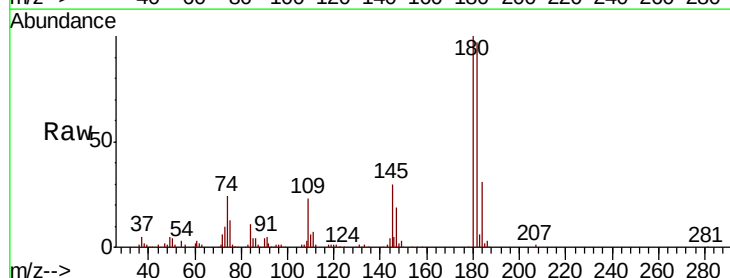
Tgt Ion:180 Resp: 147065

Ion Ratio Lower Upper

180 100

182 95.7 75.8 113.6

145 29.8 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

