

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW032520\
 Data File : VW015141.D
 Acq On : 25 Mar 2020 17:28
 Operator : SY/VA
 Sample : VSTDCCC025EC
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Mar 26 05:17:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM032520S.M
 Quant Title : VOC Analysis
 QLast Update : Thu Mar 26 05:02:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	555571	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	512636	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	227588	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	246751	25.72	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	102.88%
7) Chloroethane-d5	2.89	69	208559	26.36	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	105.44%
10) 1,1-Dichloroethene-d2	4.02	63	481918	24.99	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	99.96%
20) 2-Butanone-d5	7.07	46	125573	57.50	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	115.00%
24) Chloroform-d	7.65	84	436132	26.27	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	105.08%
26) 1,2-Dichloroethane-d4	8.31	65	252379	26.25	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	105.00%
29) Benzene-d6	8.27	84	855836	26.08	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	104.32%
33) 1,2-Dichloropropane-d6	9.27	67	280435	25.73	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	102.92%
37) Toluene-d8	10.32	98	754590	26.98	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	107.92%
38) trans-1,3-Dichloropropene-	10.57	79	109171	26.17	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	104.68%
39) 2-Hexanone-d5	10.92	63	90833	56.42	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	112.84%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	200014	26.83	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	107.32%
61) 1,2-Dichlorobenzene-d4	13.85	152	202187	25.53	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	102.12%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.01	85	98765	22.850	ug/L	93
3) Chloromethane	2.21	50	173817	21.747	ug/L	97
5) Vinyl chloride	2.36	62	262093	23.535	ug/L	99
6) Bromomethane	2.78	94	140960	22.931	ug/L	98
8) Chloroethane	2.92	64	161196	23.777	ug/L	96
9) Trichlorofluoromethane	3.26	101	144178	23.132	ug/L	97
11) 1,1,2-Trichloro-1,2,2-trif	4.07	101	206902	23.860	ug/L	99
13) Acetone	4.12	43	98826	50.702	ug/L	99
14) Carbon disulfide	4.39	76	721847	23.582	ug/L	99
15) Methyl Acetate	4.67	43	112443	24.421	ug/L	98
16) Methylene chloride	4.92	84	222668	23.449	ug/L	99
17) Methyl tert-butyl Ether	5.43	73	255520	23.913	ug/L	98
18) trans-1,2-Dichloroethene	5.42	96	199656	23.343	ug/L	96
19) 1,1-Dichloroethane	6.21	63	434383	23.700	ug/L	100
21) 2-Butanone	7.17	43	141566	51.279	ug/L	98
22) cis-1,2-Dichloroethene	7.17	96	202828	23.879	ug/L	98
23) Bromochloromethane	7.51	128	82856	23.760	ug/L	97

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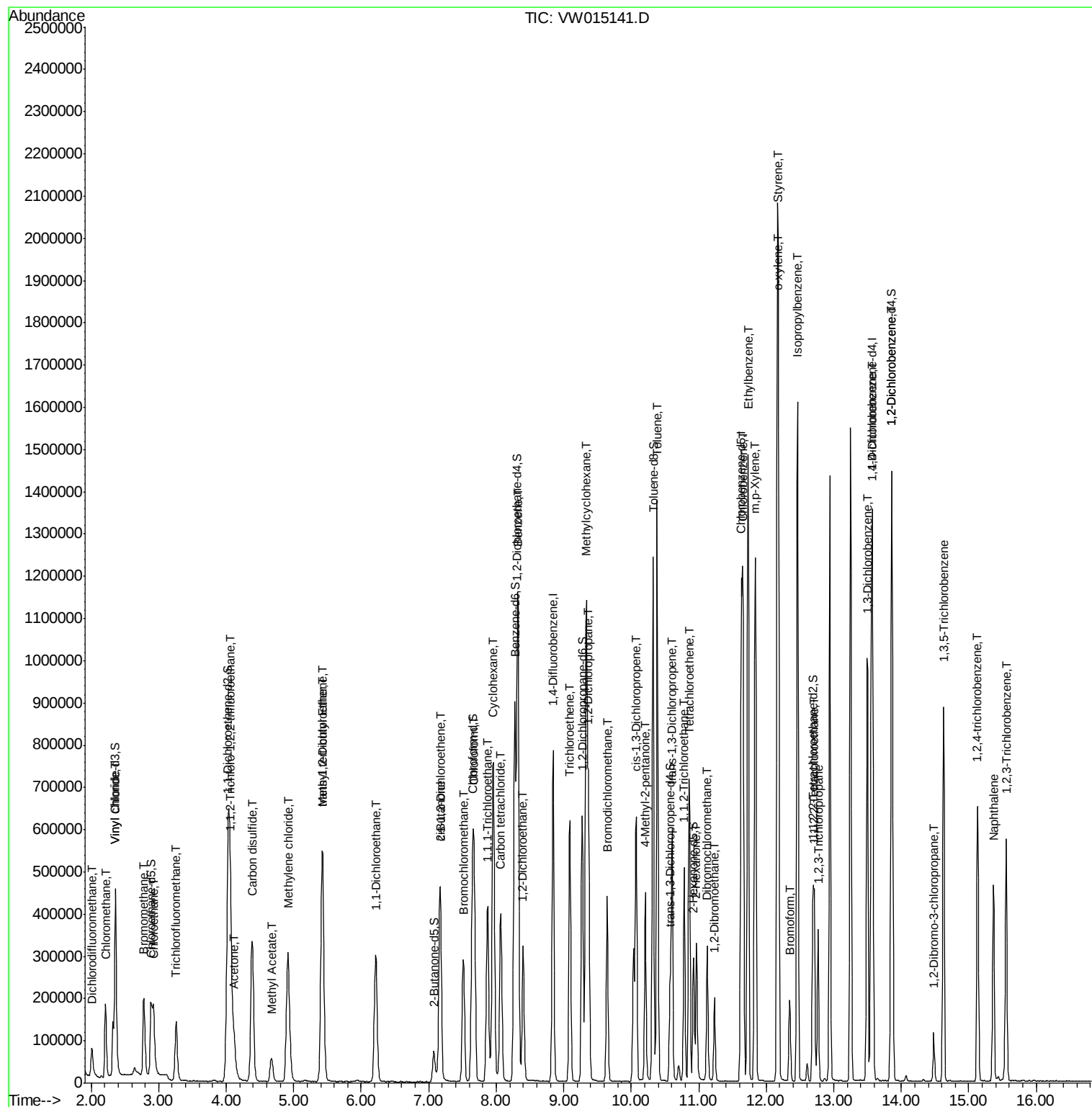
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	7.67	83	394605	23.833	ug/L	99
27) 1,2-Dichloroethane	8.40	62	286543	24.097	ug/L	100
30) Cyclohexane	7.96	56	413143	24.700	ug/L	100
31) 1,1,1-Trichloroethane	7.87	97	316532	23.504	ug/L	100
32) Carbon tetrachloride	8.07	117	273541	23.411	ug/L	99
34) Benzene	8.32	78	917837	24.202	ug/L	100
35) Trichloroethene	9.09	95	212275	22.993	ug/L	99
36) Methylcyclohexane	9.34	83	389615	24.565	ug/L	99
40) 1,2-Dichloropropane	9.37	63	249652	23.870	ug/L	99
41) Bromodichloromethane	9.64	83	281393	23.648	ug/L	99
42) cis-1,3-Dichloropropene	10.07	75	331217	24.103	ug/L	98
43) 4-Methyl-2-pentanone	10.21	43	308421	52.123	ug/L	99
44) Toluene	10.38	91	924595	24.656	ug/L	100
45) trans-1,3-Dichloropropene	10.60	75	294154	24.480	ug/L	99
46) 1,1,2-Trichloroethane	10.79	97	145600	23.683	ug/L	97
47) Tetrachloroethene	10.86	164	136217	22.863	ug/L	98
49) 2-Hexanone	10.97	43	216803	54.938	ug/L	99
50) Dibromochloromethane	11.13	129	149977	23.729	ug/L	100
51) 1,2-Dibromoethane	11.23	107	127494	23.416	ug/L	99
52) Chlorobenzene	11.65	112	514816	23.487	ug/L	99
53) Ethylbenzene	11.73	91	999154	24.667	ug/L	98
54) m,p-Xylene	11.83	106	354406	24.958	ug/L	96
55) o-xylene	12.16	106	330651	24.837	ug/L	98
56) Styrene	12.18	104	571727	25.234	ug/L	100
57) Isopropylbenzene	12.46	105	920810	25.105	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	12.71	83	185377	24.091	ug/L	98
59) 1,2,3-Trichloropropane	12.77	75	140681	24.443	ug/L	100
62) Bromoform	12.35	173	75265	22.748	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	348061	23.335	ug/L	95
64) 1,4-Dichlorobenzene	13.58	146	349842	22.924	ug/L	98
65) 1,2-Dichlorobenzene	13.87	146	321152	23.659	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.48	75	30053	23.243	ug/L	97
67) 1,3,5-Trichlorobenzene	14.63	180	223941	23.321	ug/L	98
68) 1,2,4-trichlorobenzene	15.13	180	173393	23.957	ug/L	100
69) Naphthalene	15.36	128	348415	24.759	ug/L	100
70) 1,2,3-Trichlorobenzene	15.55	180	162583	24.173	ug/L	100

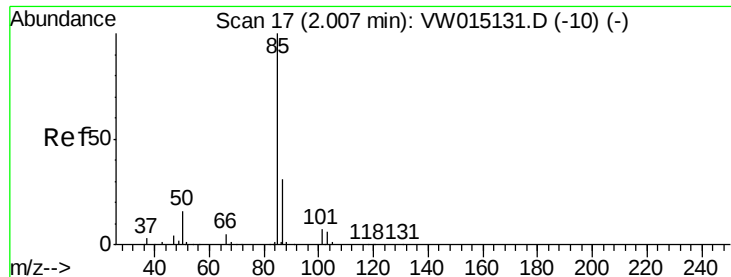
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 22.850 ug/L

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW015141.D

Acq: 25 Mar 2020 17:28

Instrument :

MSVOA_W

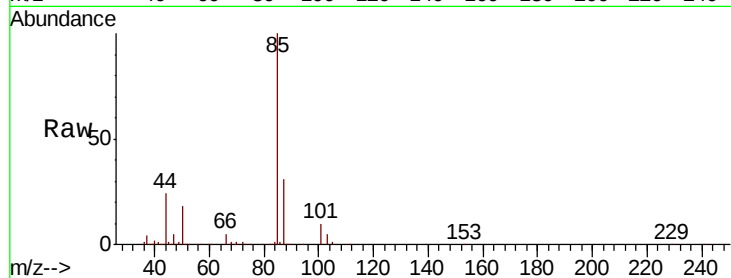
ClientSampled :

Tot Ion: 85 Resp: 98765

Ion Ratio Lower Upper

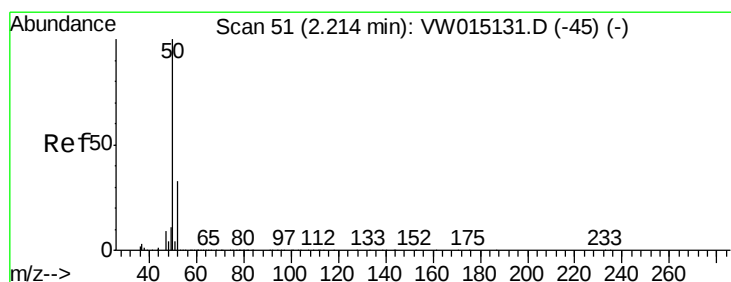
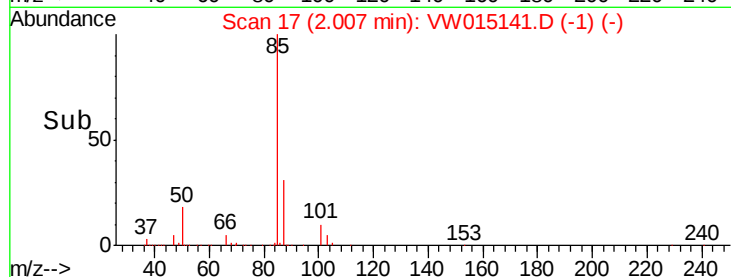
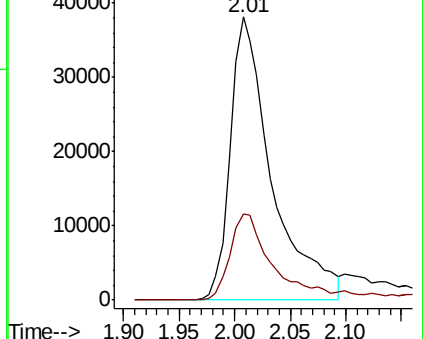
85 100

87 29.3 23.4 43.6



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 21.747 ug/L

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW015141.D

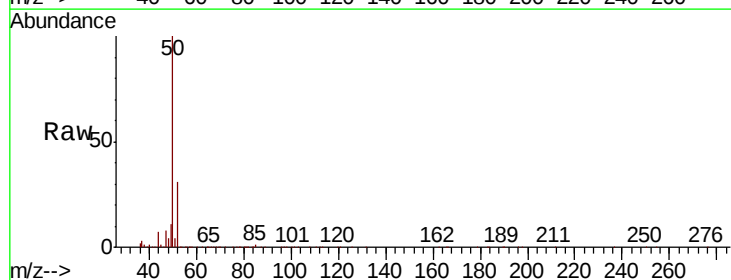
Acq: 25 Mar 2020 17:28

Tgt Ion: 50 Resp: 173817

Ion Ratio Lower Upper

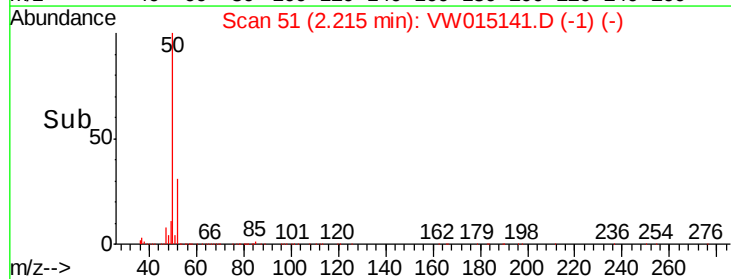
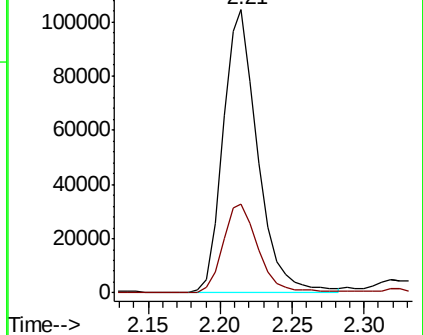
50 100

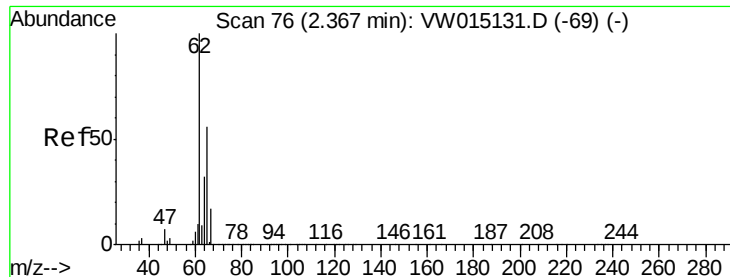
52 31.3 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 23.535 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW015141.D

Acq: 25 Mar 2020 17:28

Instrument :

MSVOA_W

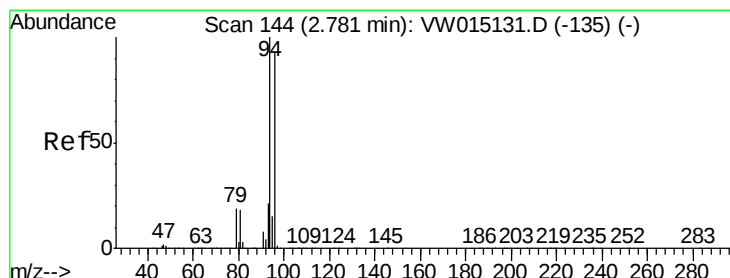
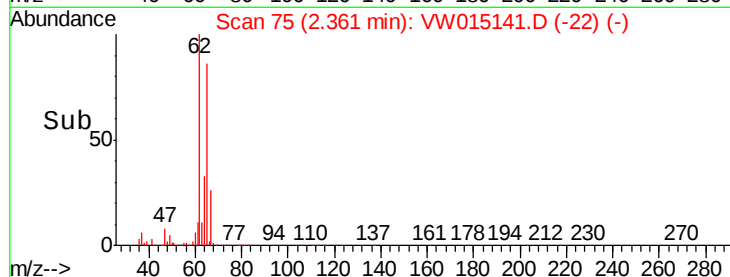
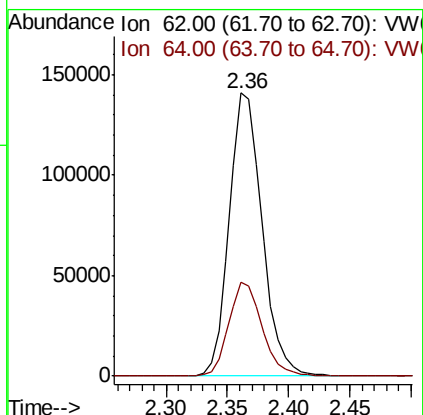
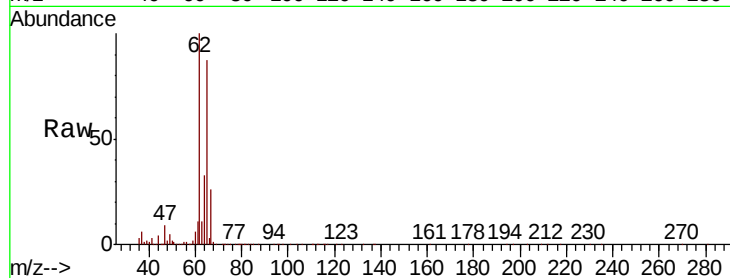
ClientSampleId :

Tot Ion: 62 Resp: 262093

Ion Ratio Lower Upper

62 100

64 33.1 22.7 42.3



#6

Bromomethane

Concen: 22.931 ug/L

RT: 2.78 min Scan# 144

Delta R.T. 0.00 min

Lab File: VW015141.D

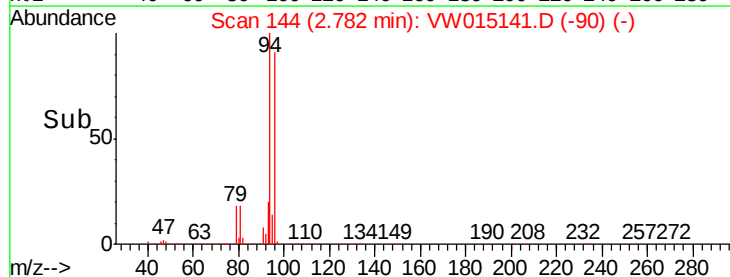
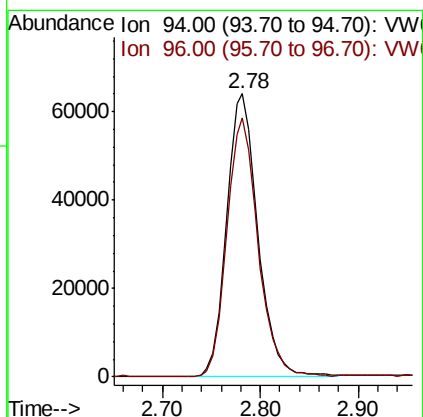
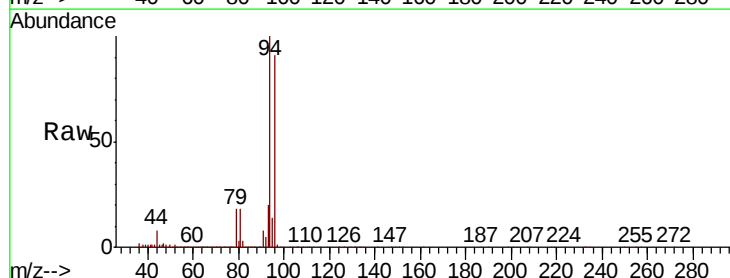
Acq: 25 Mar 2020 17:28

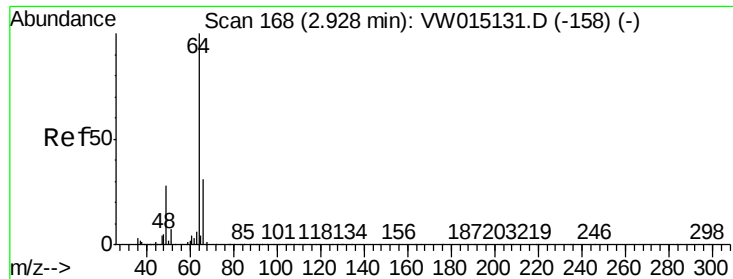
Tgt Ion: 94 Resp: 140960

Ion Ratio Lower Upper

94 100

96 91.0 9.3 177.3

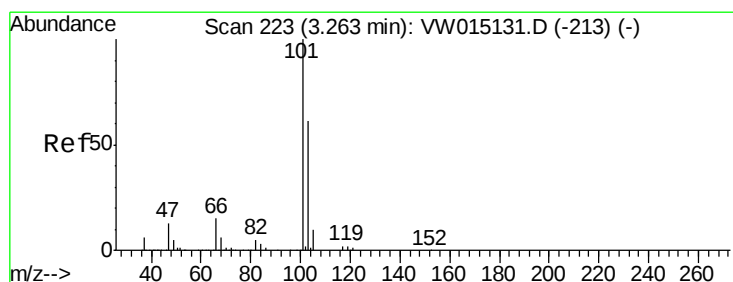
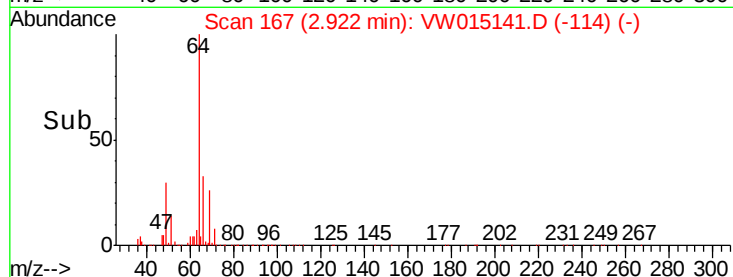
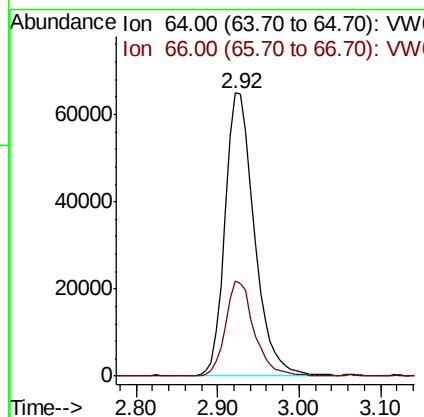
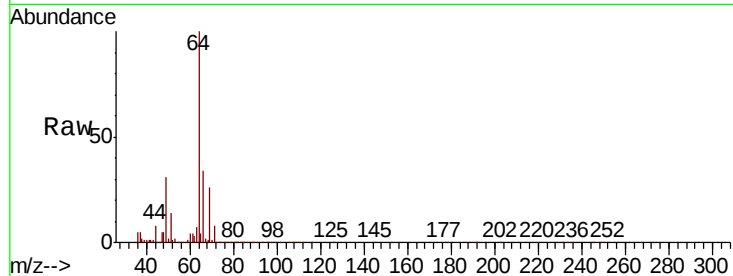




#8
Chloroethane
Concen: 23.777 ug/L
RT: 2.92 min Scan# 167
Delta R.T. -0.01 min
Lab File: VW015141.D
Acq: 25 Mar 2020 17:28

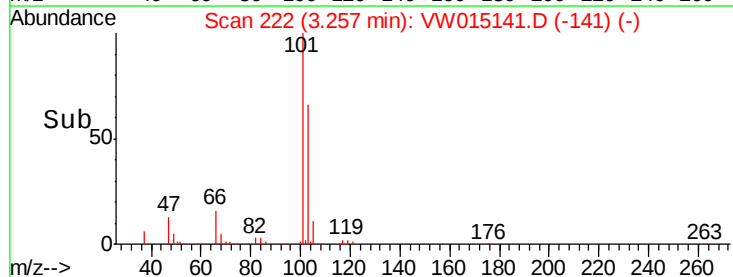
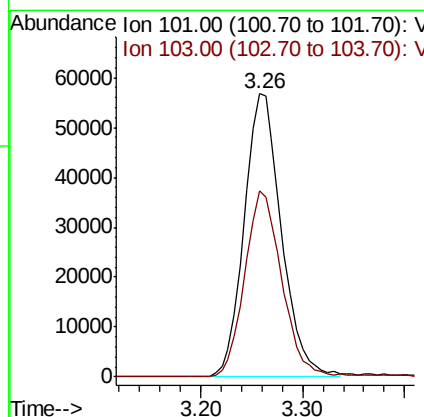
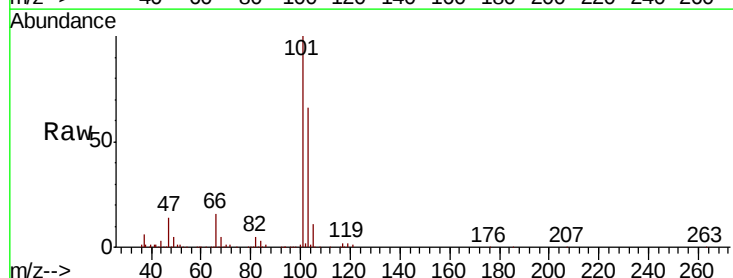
Instrument :
MSVOA_W
ClientSampleId :

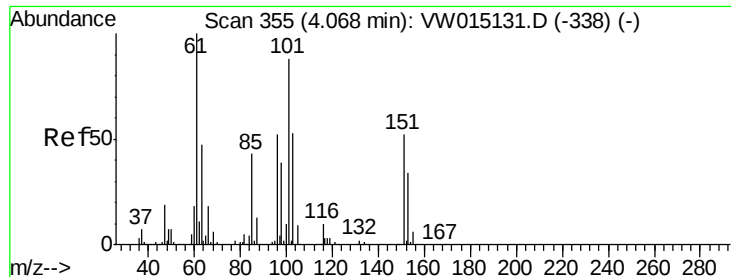
Tot Ion: 64 Resp: 161196
Ion Ratio Lower Upper
64 100
66 33.5 21.8 40.6



#9
Trichlorofluoromethane
Concen: 23.132 ug/L
RT: 3.26 min Scan# 222
Delta R.T. -0.01 min
Lab File: VW015141.D
Acq: 25 Mar 2020 17:28

Tgt Ion:101 Resp: 144178
Ion Ratio Lower Upper
101 100
103 65.3 43.8 81.4





#11

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

Concen: 23.860 ug/L

RT: 4.07 min Scan# 355

Delta R.T. 0.00 min

Lab File: VW015141.D

Acq: 25 Mar 2020 17:28

Instrument :

MSVOA_W

ClientSampleId :

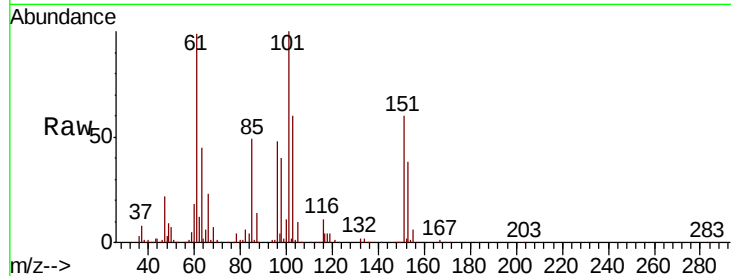
Tot Ion:101 Resp: 206902

Ion Ratio Lower Upper

101 100

85 47.6 37.8 56.6

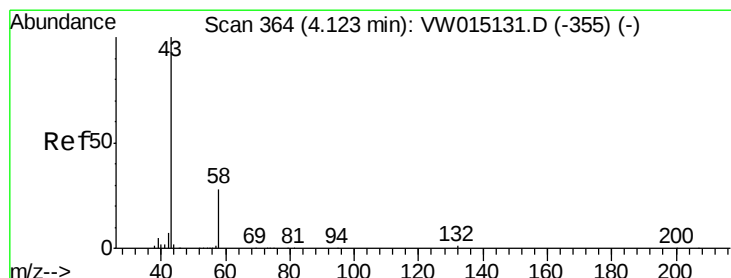
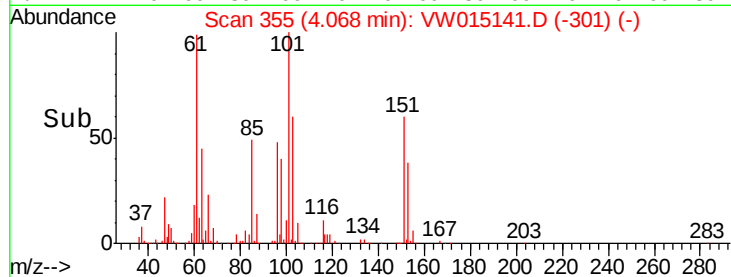
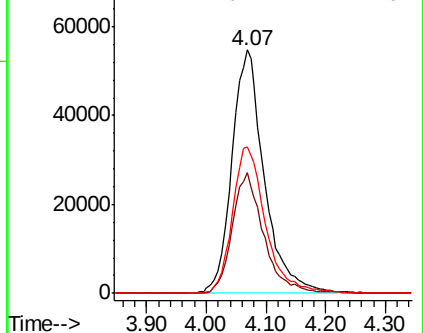
151 61.3 50.2 75.4



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



#13

Acetone

Concen: 50.702 ug/L

RT: 4.12 min Scan# 364

Delta R.T. 0.00 min

Lab File: VW015141.D

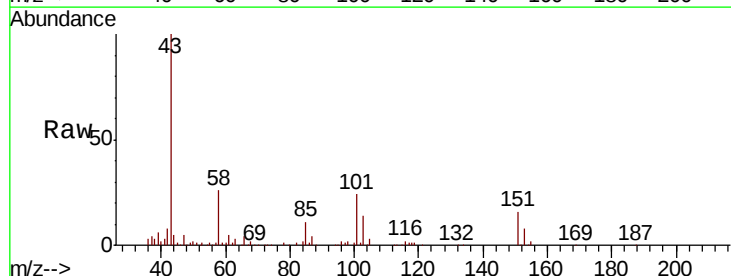
Acq: 25 Mar 2020 17:28

Tgt Ion: 43 Resp: 98826

Ion Ratio Lower Upper

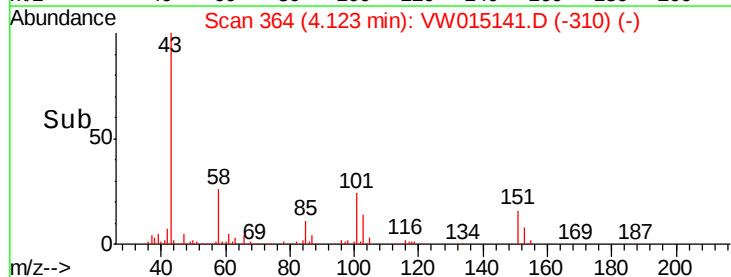
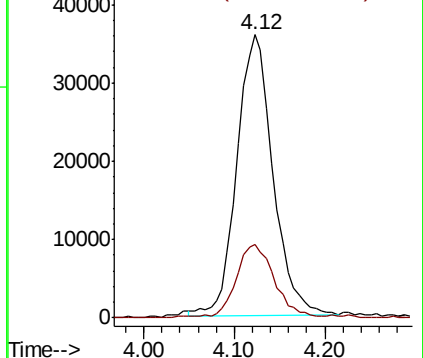
43 100

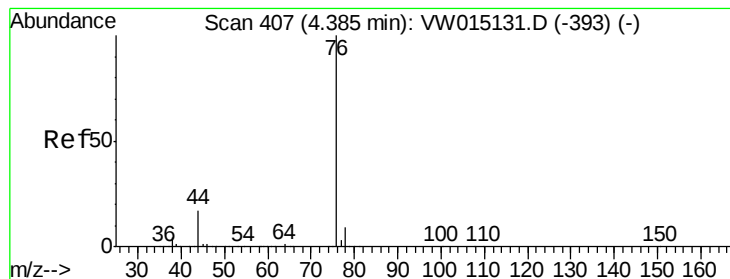
58 27.8 0.0 54.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#14

Carbon disulfide

Concen: 23.582 ug/L

RT: 4.39 min Scan# 407

Delta R.T. 0.00 min

Lab File: VW015141.D

Acq: 25 Mar 2020 17:28

Instrument :

MSVOA_W

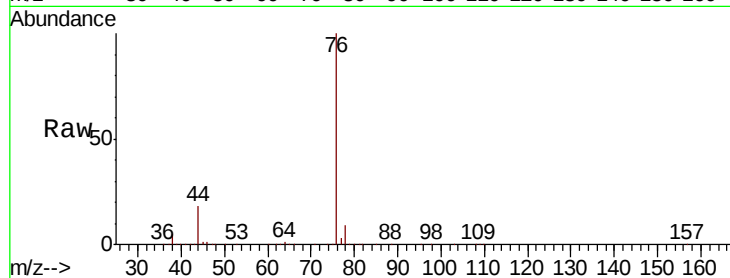
ClientSampleId :

Tot Ion: 76 Resp: 721847

Ion Ratio Lower Upper

76 100

78 8.7 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

4.39

250000

200000

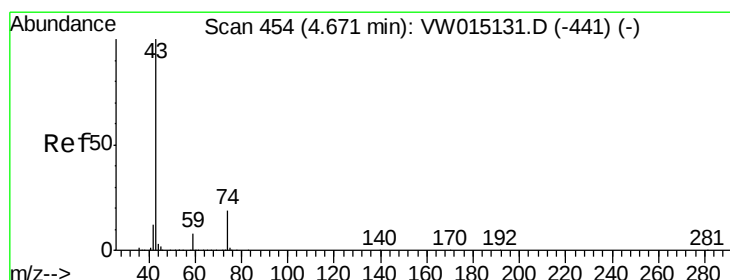
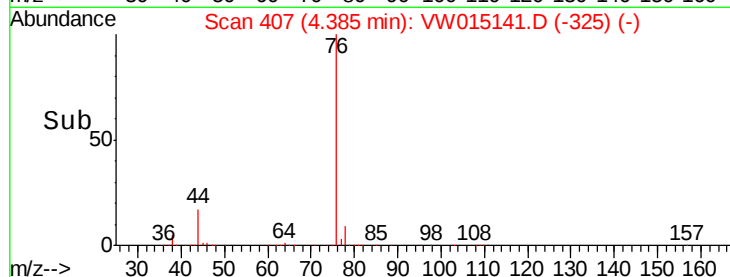
150000

100000

50000

0

Time--> 4.20 4.30 4.40 4.50



#15

Methyl Acetate

Concen: 24.421 ug/L

RT: 4.67 min Scan# 454

Delta R.T. 0.00 min

Lab File: VW015141.D

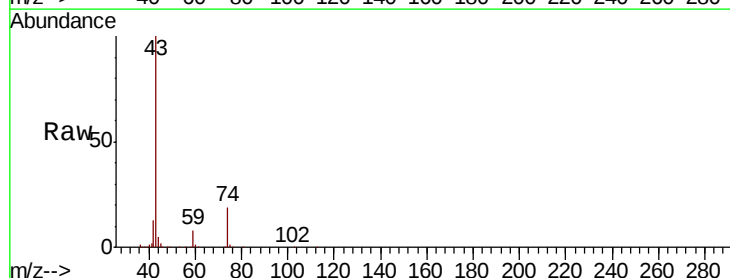
Acq: 25 Mar 2020 17:28

Tgt Ion: 43 Resp: 112443

Ion Ratio Lower Upper

43 100

74 18.6 15.5 23.3



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

4.67

40000

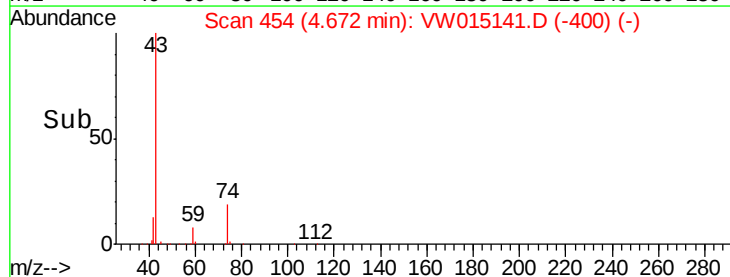
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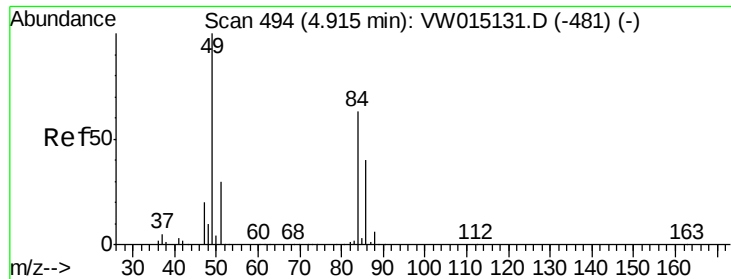
20000

10000

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Time--> 4.60 4.70 4.80

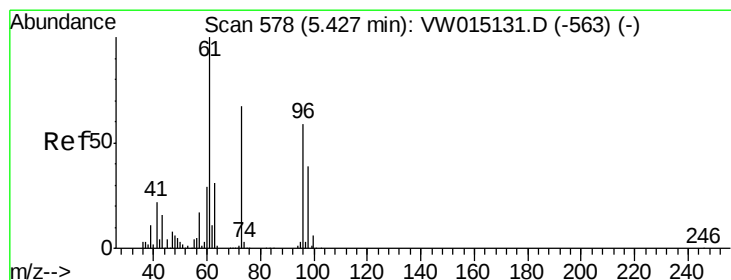
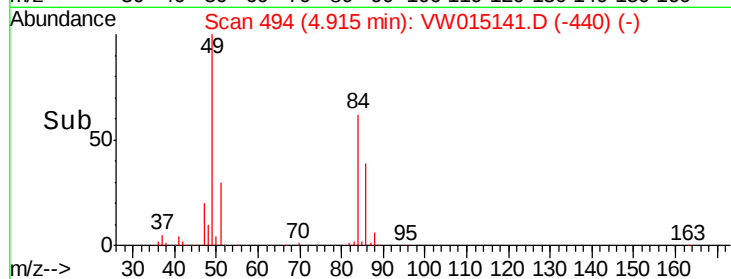
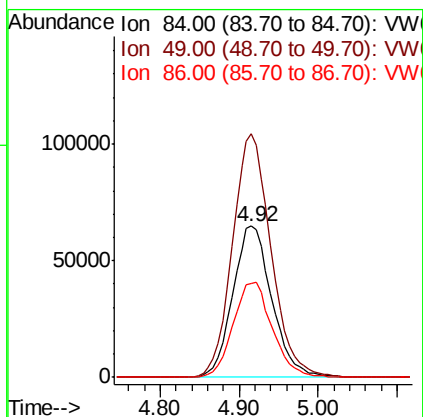
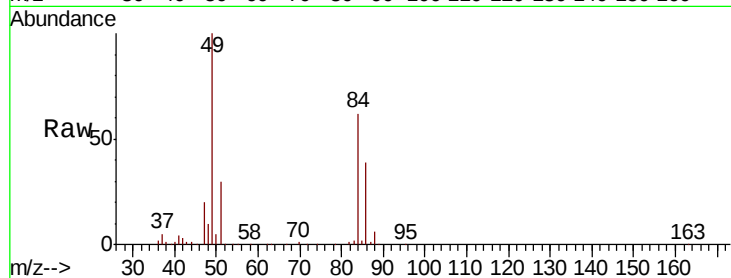




#16
Methylene chloride
Concen: 23.449 ug/L
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW015141.D
Acq: 25 Mar 2020 17:28

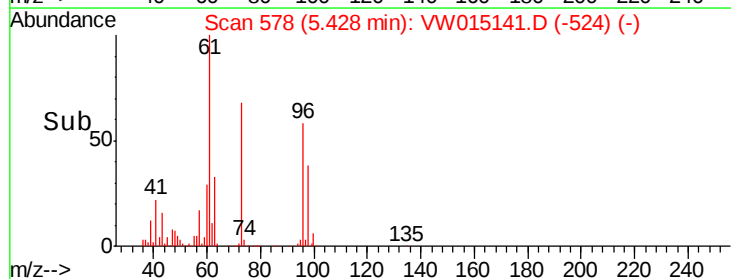
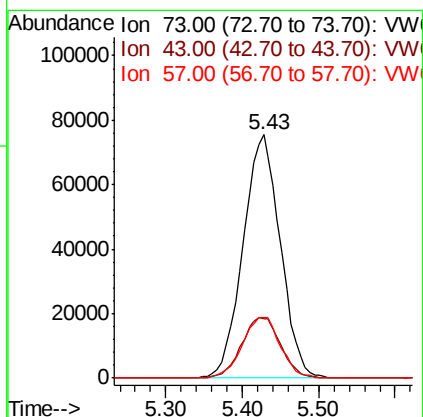
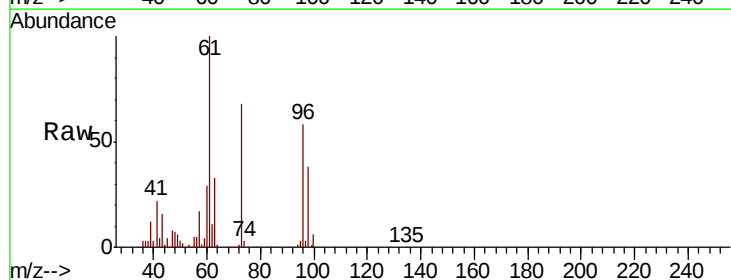
Instrument :
MSVOA_W
ClientSampleId :

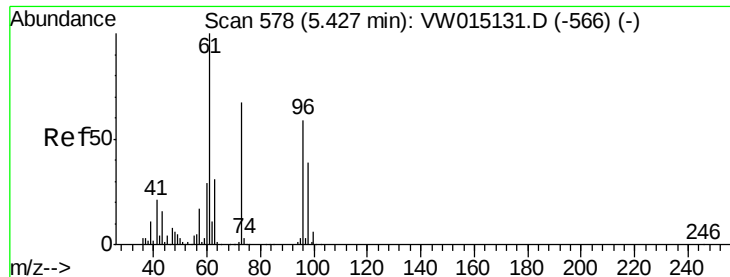
Tot Ion	84	Resp	222668
Ion	Ratio	Lower	Upper
84	100		
49	161.3	111.7	207.5
86	62.4	44.7	82.9



#17
Methyl tert-butyl Ether
Concen: 23.913 ug/L
RT: 5.43 min Scan# 578
Delta R.T. 0.00 min
Lab File: VW015141.D
Acq: 25 Mar 2020 17:28

Tgt Ion	73	Resp	255520
Ion	Ratio	Lower	Upper
73	100		
43	25.7	20.2	30.2
57	25.7	19.7	29.5





#18

trans-1,2-Dichloroethene

Concen: 23.343 ug/L

RT: 5.42 min Scan# 577

Delta R.T. -0.01 min

Lab File: VW015141.D

Acq: 25 Mar 2020 17:28

Instrument :

MSVOA_W

ClientSampleId :

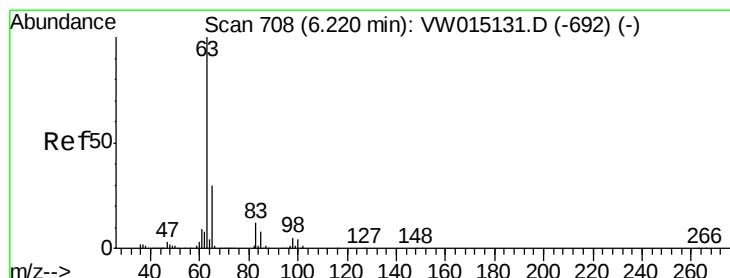
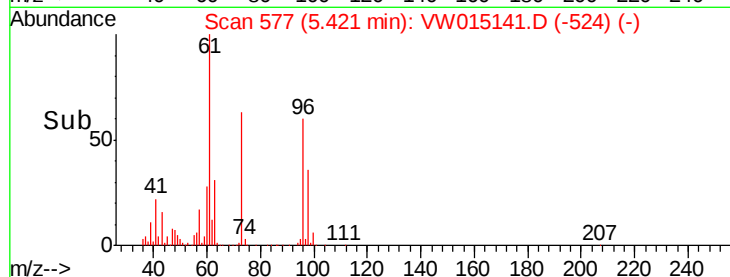
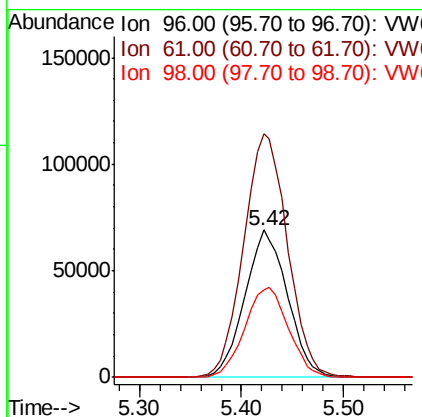
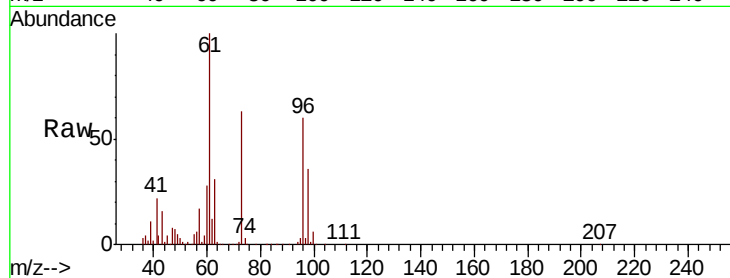
Tot Ion: 96 Resp: 199656

Ion Ratio Lower Upper

96 100

61 165.3 118.1 219.3

98 59.5 45.8 85.2



#19

1,1-Dichloroethane

Concen: 23.700 ug/L

RT: 6.21 min Scan# 707

Delta R.T. -0.01 min

Lab File: VW015141.D

Acq: 25 Mar 2020 17:28

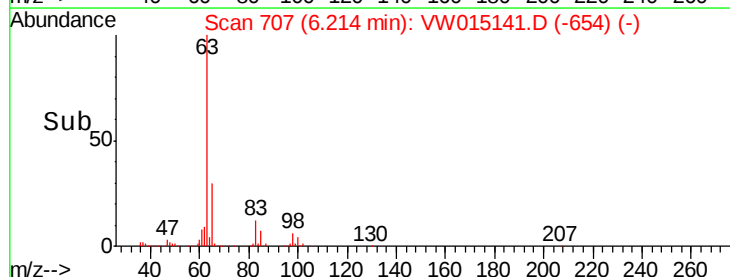
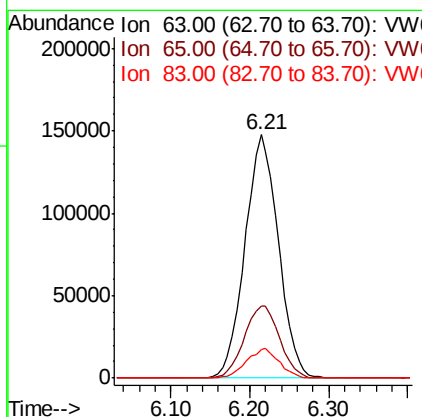
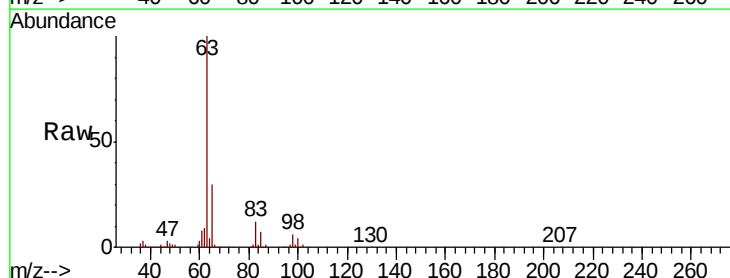
Tgt Ion: 63 Resp: 434383

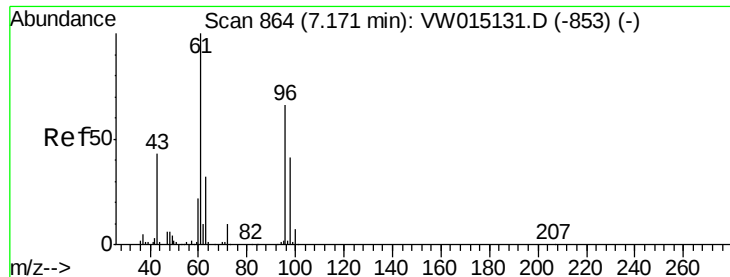
Ion Ratio Lower Upper

63 100

65 29.7 20.6 38.4

83 11.6 8.1 15.1





#21

2-Butanone

Concen: 51.279 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW015141.D

Acq: 25 Mar 2020 17:28

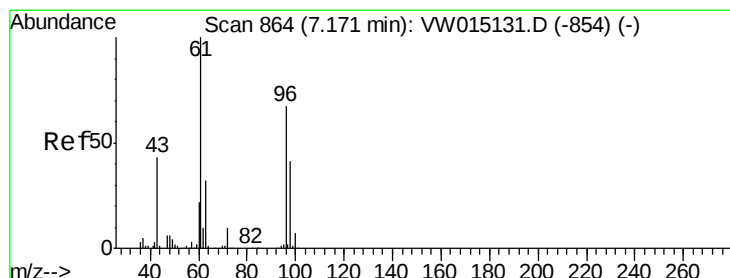
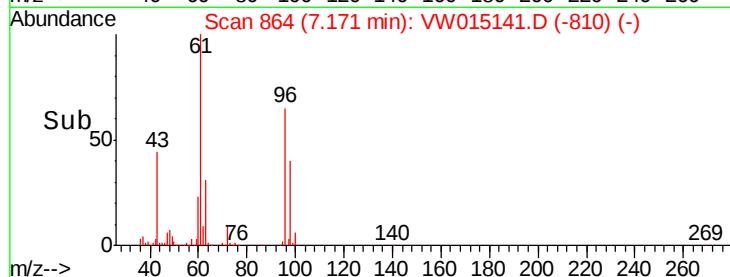
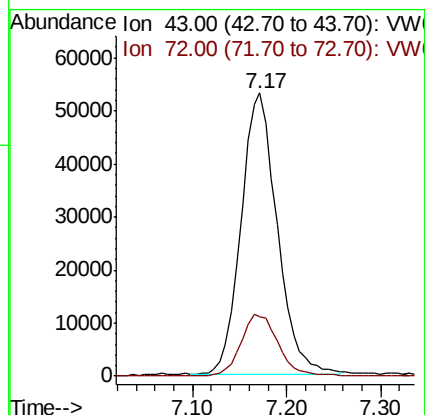
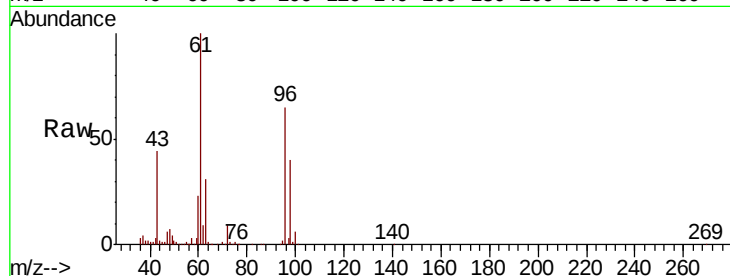
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 43 Resp: 141566

Ion Ratio Lower Upper

43 100

72 22.4 11.7 35.0



#22

cis-1,2-Dichloroethene

Concen: 23.879 ug/L

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW015141.D

Acq: 25 Mar 2020 17:28

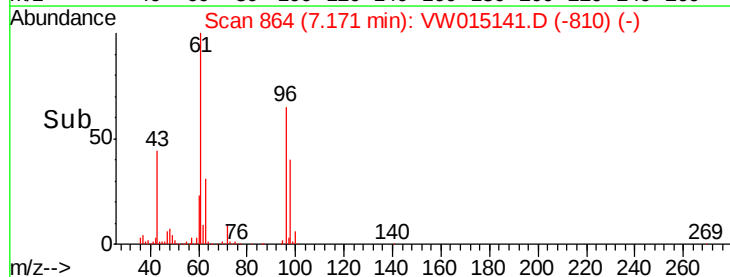
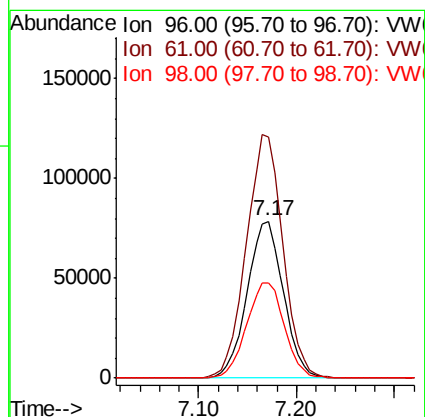
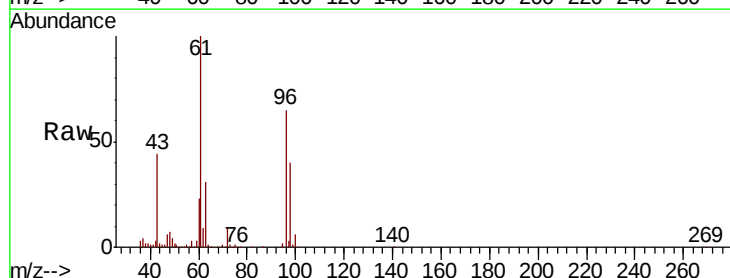
Tgt Ion: 96 Resp: 202828

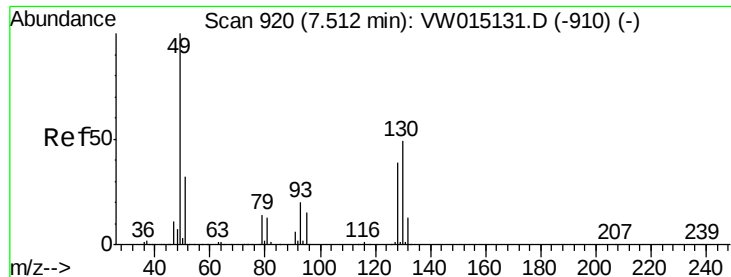
Ion Ratio Lower Upper

96 100

61 153.2 105.6 196.0

98 60.6 43.3 80.5

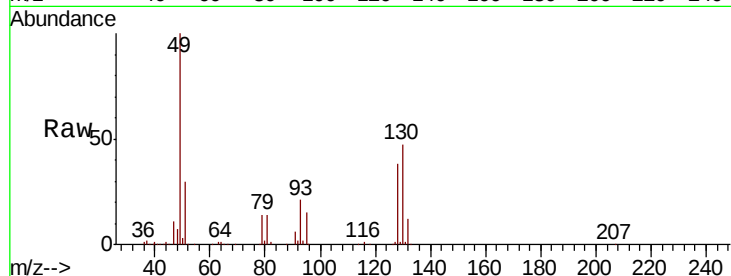




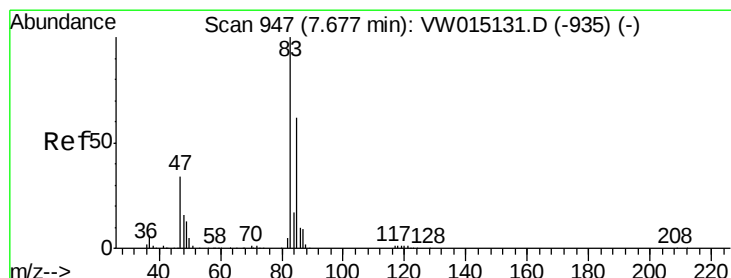
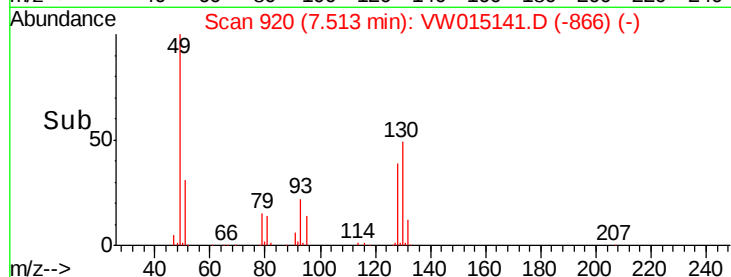
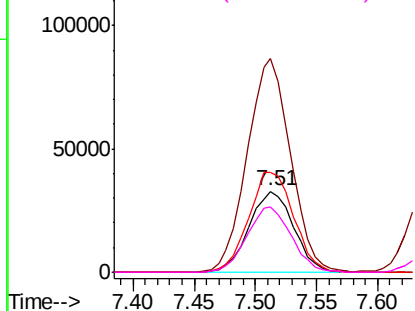
#23
Bromochloromethane
Concen: 23.760 ug/L
RT: 7.51 min Scan# 920
Delta R.T. 0.00 min
Lab File: VW015141.D
Acq: 25 Mar 2020 17:28

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:128 Resp: 82856
Ion Ratio Lower Upper
128 100
49 263.9 181.2 336.6
130 123.4 88.4 164.2
51 80.4 66.2 99.4

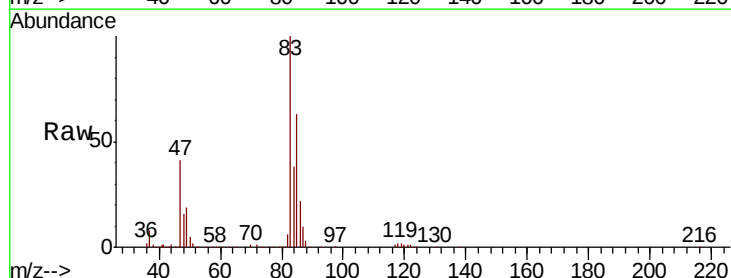


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VV
Ion 130.00 (129.70 to 130.70): V
Ion 51.00 (50.70 to 51.70): VV

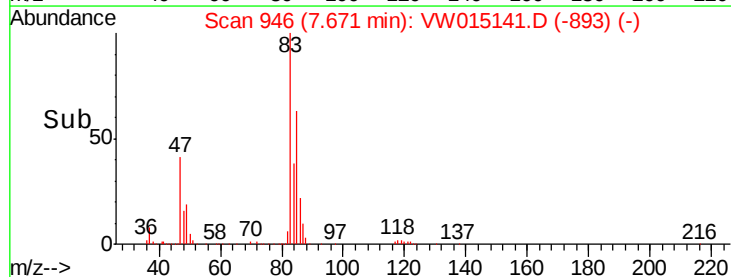
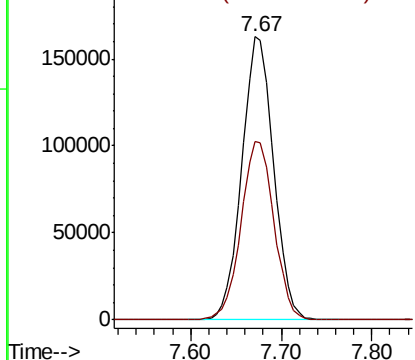


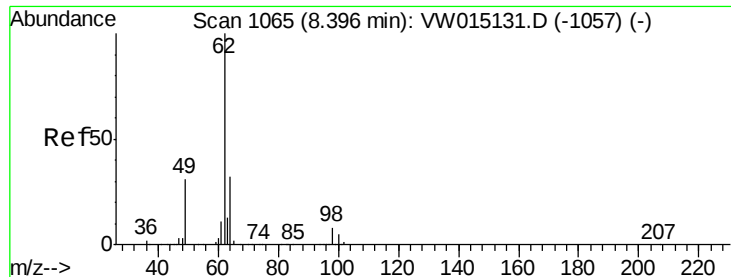
#25
Chloroform
Concen: 23.833 ug/L
RT: 7.67 min Scan# 946
Delta R.T. -0.01 min
Lab File: VW015141.D
Acq: 25 Mar 2020 17:28

Tgt Ion: 83 Resp: 394605
Ion Ratio Lower Upper
83 100
85 65.3 45.4 84.2



Abundance Ion 83.00 (82.70 to 83.70): VV
Ion 85.00 (84.70 to 85.70): VV

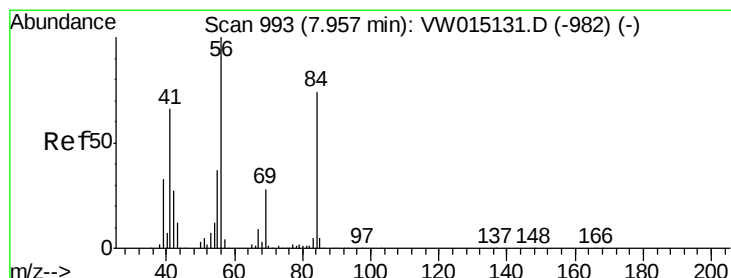
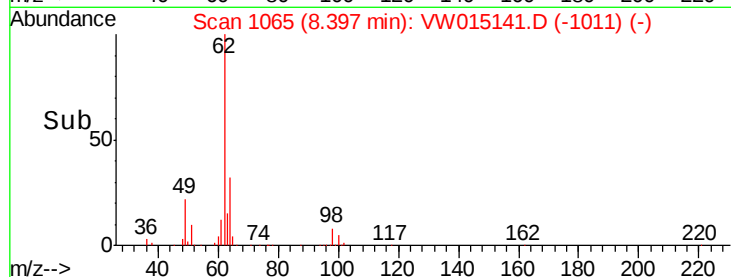
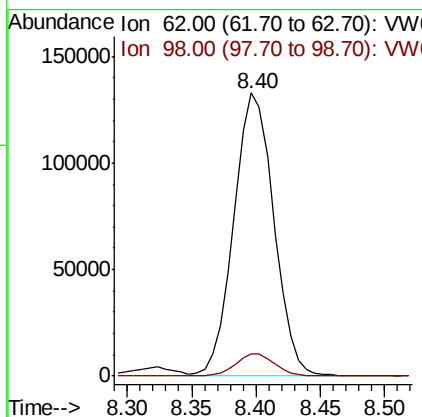
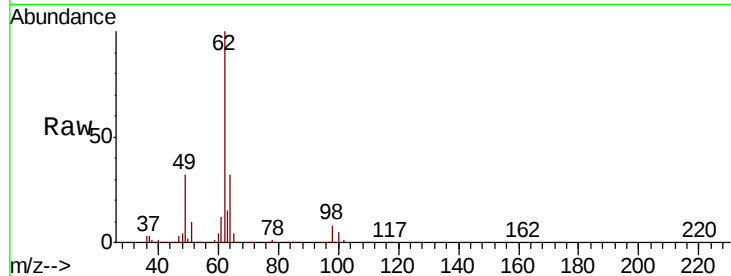




#27
 1,2-Dichloroethane
 Concen: 24.097 ug/L
 RT: 8.40 min Scan# 1065
 Delta R.T. 0.00 min
 Lab File: VW015141.D
 Acq: 25 Mar 2020 17:28

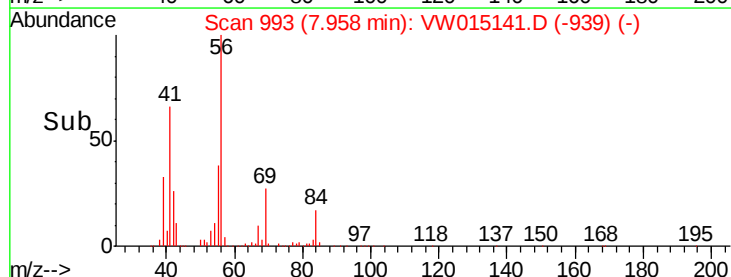
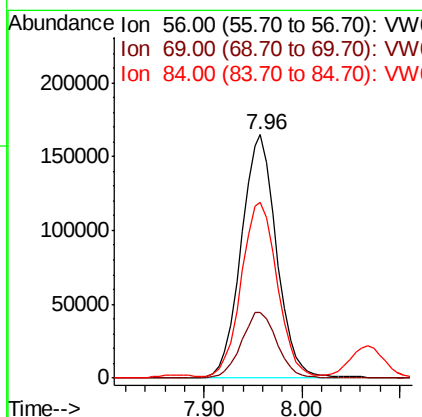
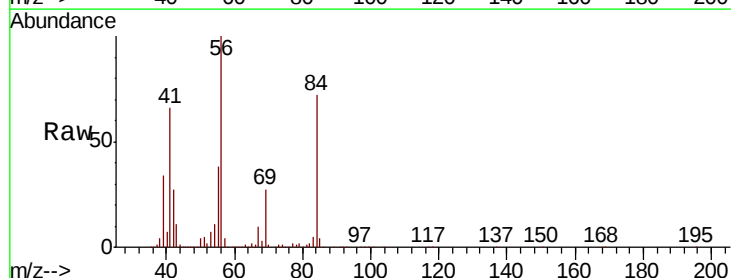
Instrument :
 MSVOA_W
 ClientSampled :

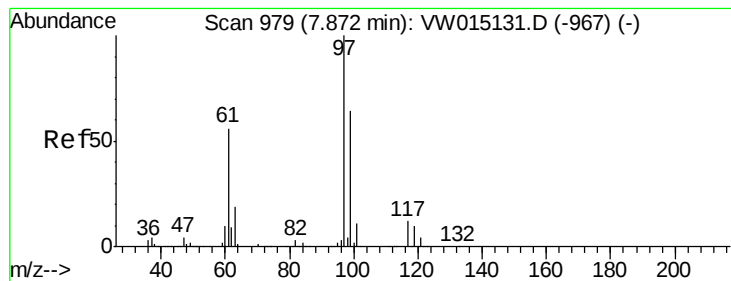
Tot Ion: 62 Resp: 286543
 Ion Ratio Lower Upper
 62 100
 98 7.7 6.2 9.4



#30
 Cyclohexane
 Concen: 24.700 ug/L
 RT: 7.96 min Scan# 993
 Delta R.T. 0.00 min
 Lab File: VW015141.D
 Acq: 25 Mar 2020 17:28

Tgt Ion: 56 Resp: 413143
 Ion Ratio Lower Upper
 56 100
 69 27.5 22.0 33.0
 84 74.1 58.9 88.3





#31

1,1,1-Trichloroethane

Concen: 23.504 ug/L

RT: 7.87 min Scan# 979

Delta R.T. 0.00 min

Lab File: VW015141.D

Acq: 25 Mar 2020 17:28

Instrument :

MSVOA_W

ClientSampleId :

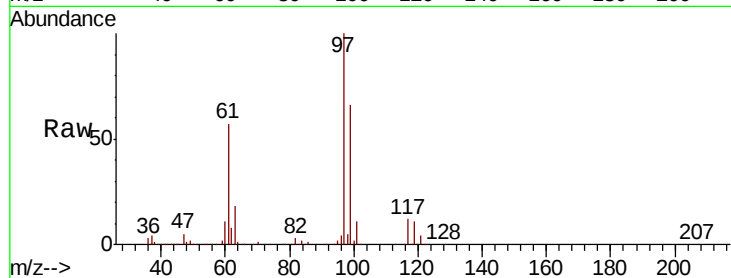
Tot Ion: 97 Resp: 316532

Ion Ratio Lower Upper

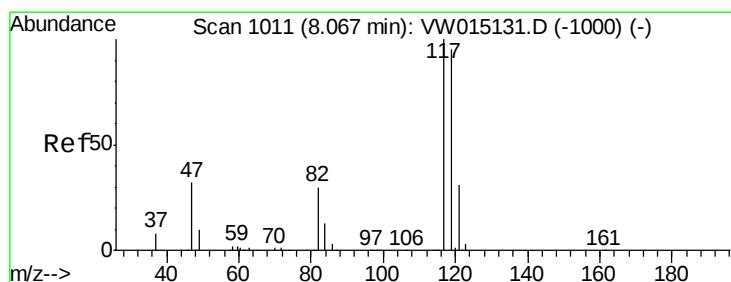
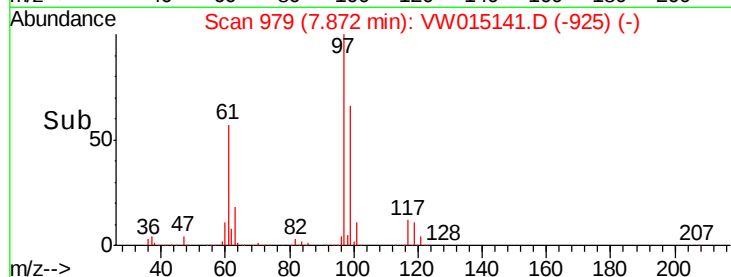
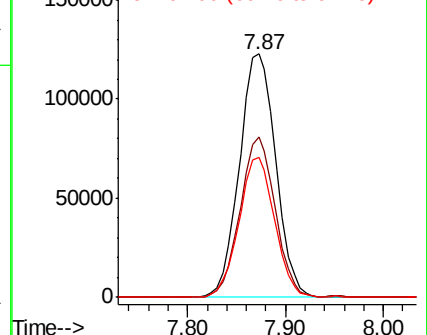
97 100

99 63.4 51.0 76.4

61 56.4 44.8 67.2



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: 23.411 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. 0.00 min

Lab File: VW015141.D

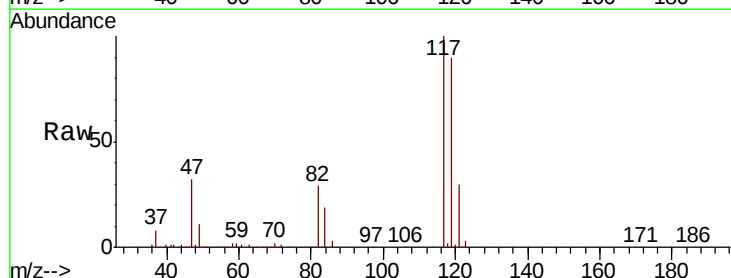
Acq: 25 Mar 2020 17:28

Tgt Ion: 117 Resp: 273541

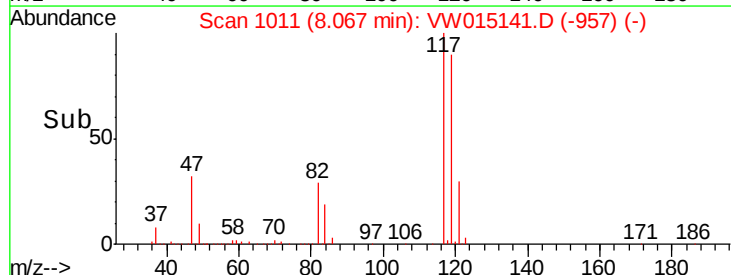
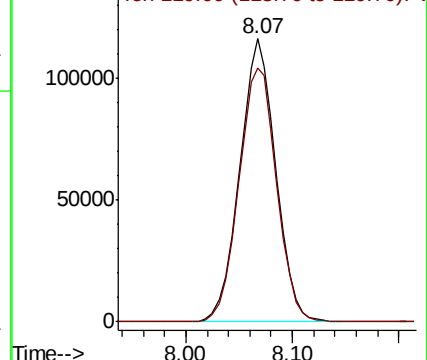
Ion Ratio Lower Upper

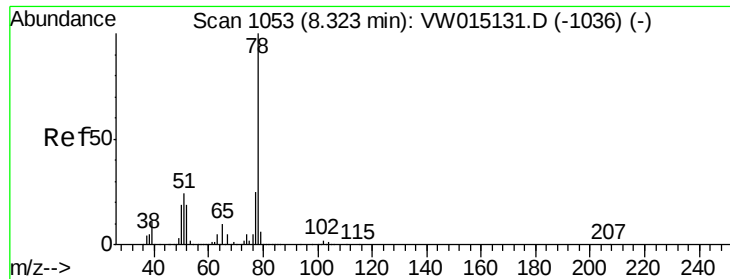
117 100

119 94.3 76.6 114.8



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





#34

Benzene

Concen: 24.202 ug/L

RT: 8.32 min Scan# 1053

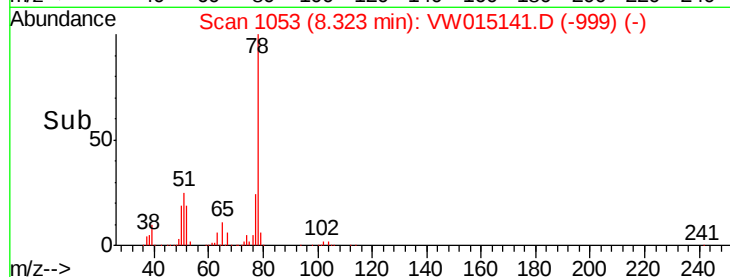
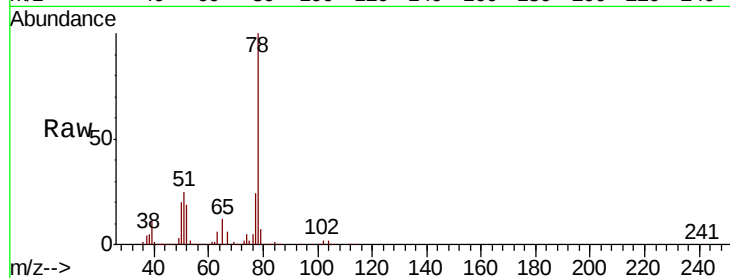
Delta R.T. 0.00 min

Lab File: VW015141.D

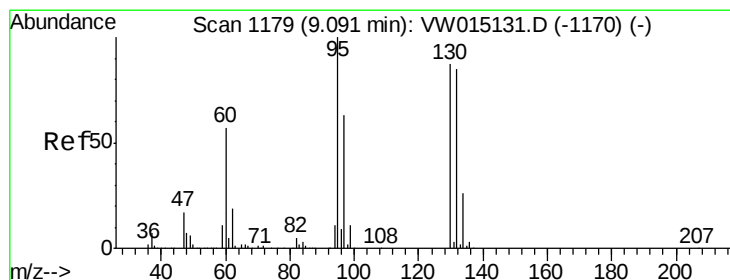
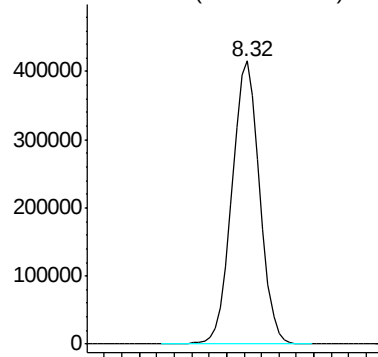
Acq: 25 Mar 2020 17:28

Instrument :
MSVOA_W
ClientSampleId :

Tgt Ion: 78 Resp: 917837



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 22.993 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW015141.D

Acq: 25 Mar 2020 17:28

Tgt Ion: 95 Resp: 212275

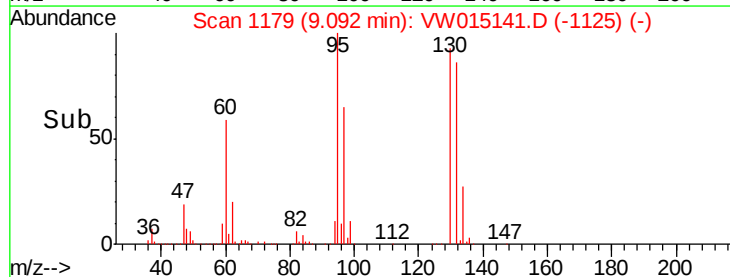
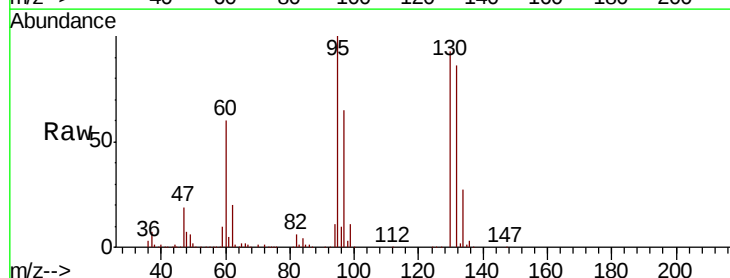
Ion	Ratio	Lower	Upper
95	100		
97	65.1	43.7	81.1
132	83.9	58.7	109.1
130	88.7	61.3	113.9

95 100

97 65.1 43.7 81.1

132 83.9 58.7 109.1

130 88.7 61.3 113.9

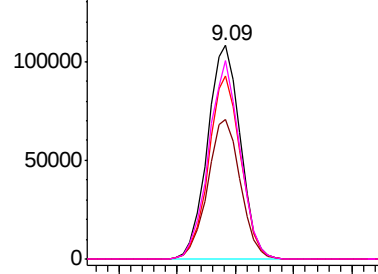


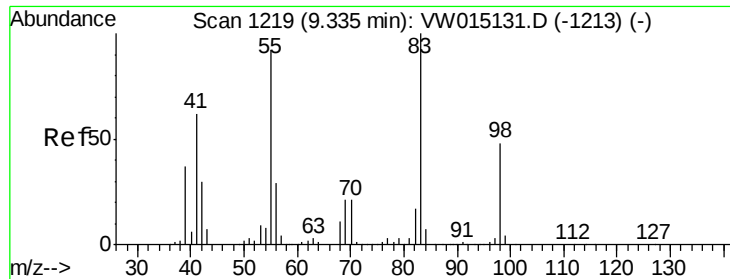
Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

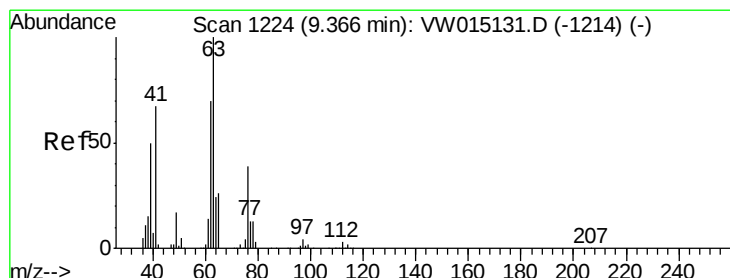
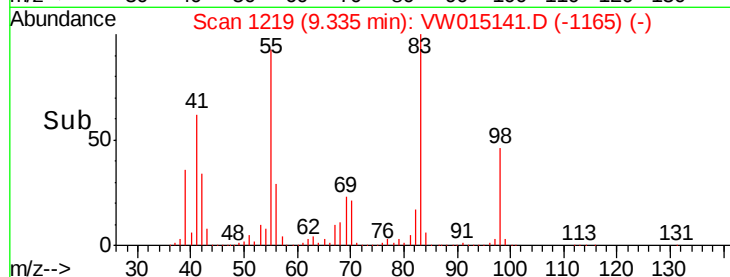
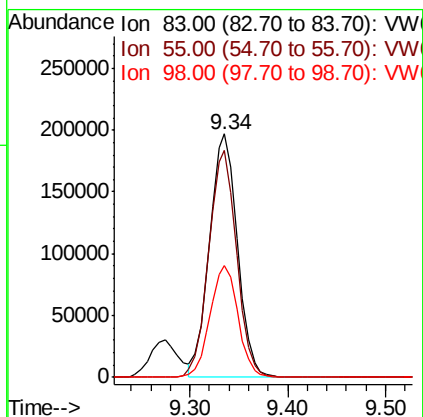
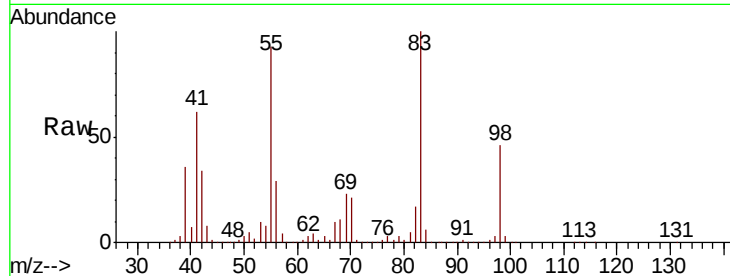




#36
Methvlcvclohexane
Concen: 24.565 ug/L
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW015141.D
Acq: 25 Mar 2020 17:28

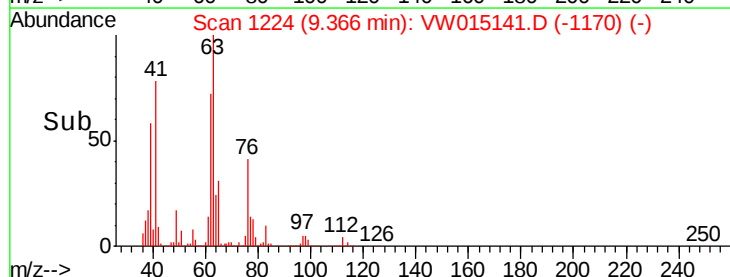
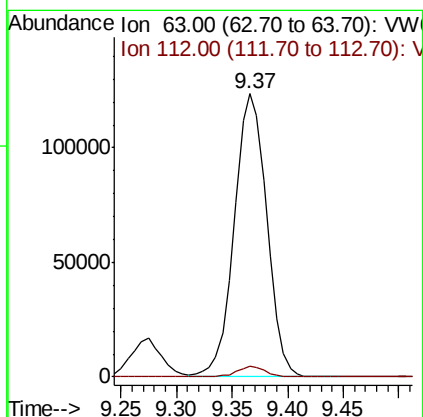
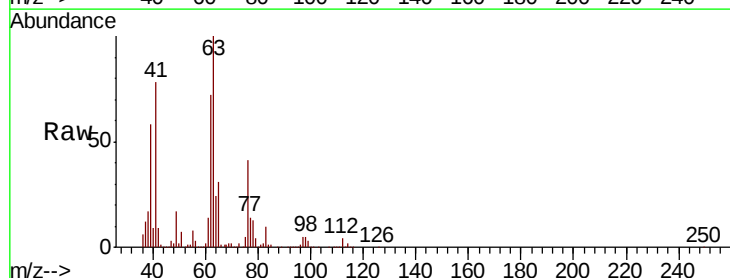
Instrument :
MSVOA_W
ClientSampleId :

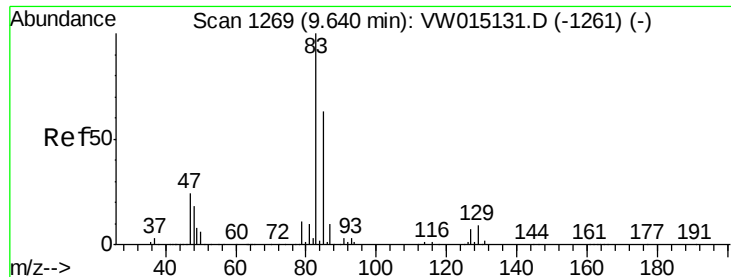
Tot Ion: 83 Resp: 389615
Ion Ratio Lower Upper
83 100
55 92.9 73.4 110.2
98 46.1 36.6 55.0



#40
1,2-Dichloropropane
Concen: 23.870 ug/L
RT: 9.37 min Scan# 1224
Delta R.T. 0.00 min
Lab File: VW015141.D
Acq: 25 Mar 2020 17:28

Tgt Ion: 63 Resp: 249652
Ion Ratio Lower Upper
63 100
112 3.4 2.9 4.3





#41

Bromodichloromethane

Concen: 23.648 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW015141.D

Acq: 25 Mar 2020 17:28

Instrument :

MSVOA_W

ClientSampleId :

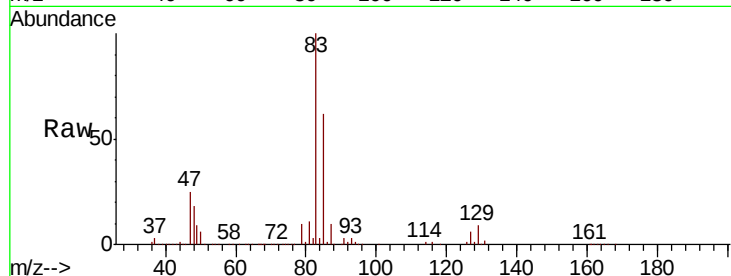
Tot Ion: 83 Resp: 281393

Ion Ratio Lower Upper

83 100

85 62.0 44.1 81.9

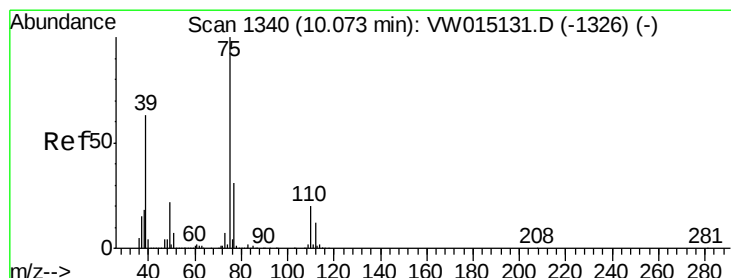
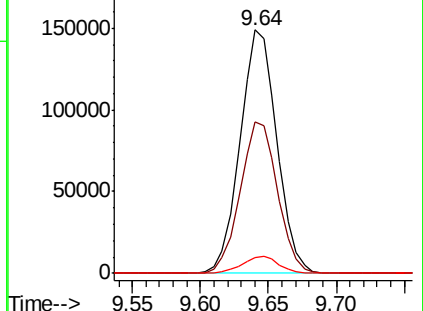
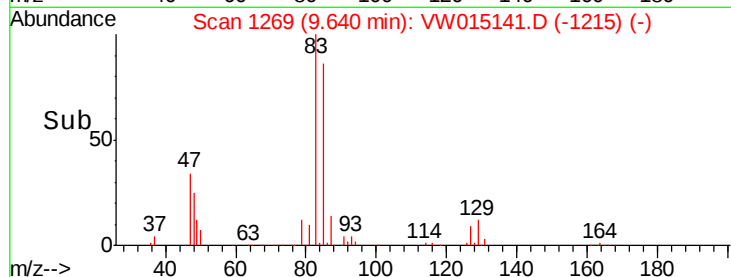
127 6.5 5.5 8.3



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): VW



#42

cis-1,3-Dichloropropene

Concen: 24.103 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW015141.D

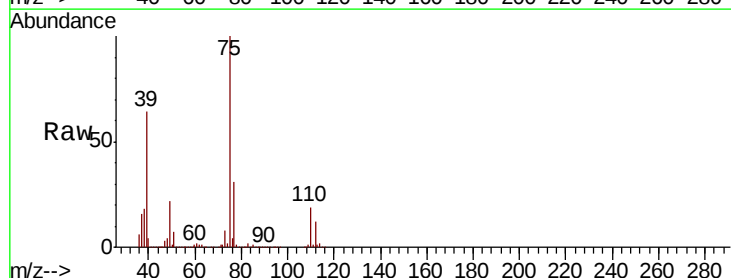
Acq: 25 Mar 2020 17:28

Tgt Ion: 75 Resp: 331217

Ion Ratio Lower Upper

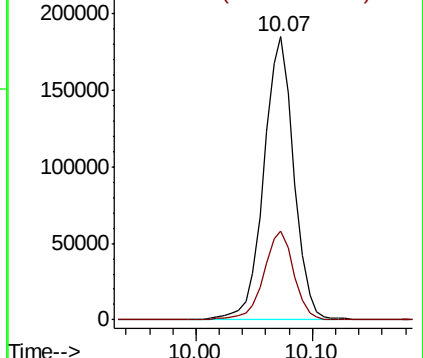
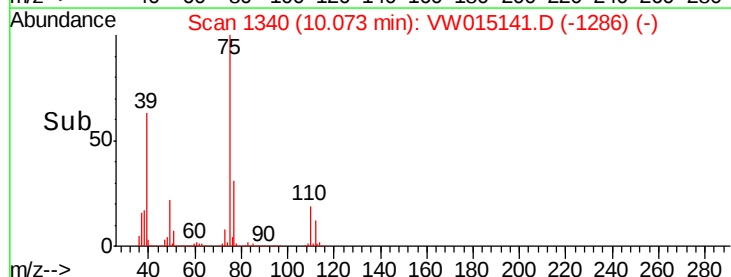
75 100

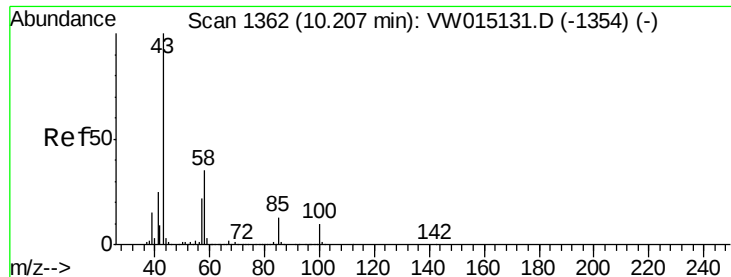
77 31.5 21.4 39.8



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

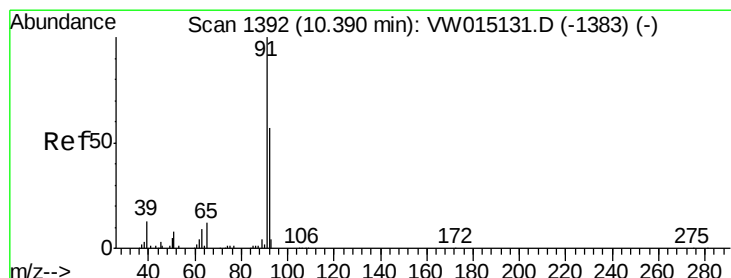
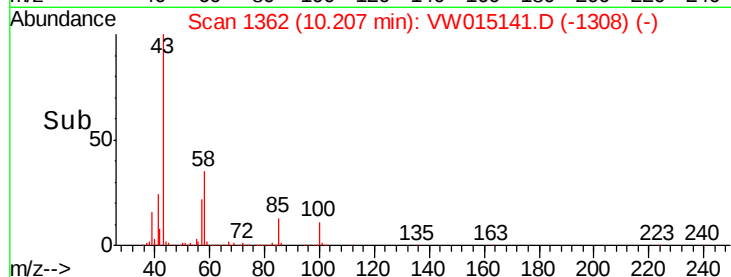
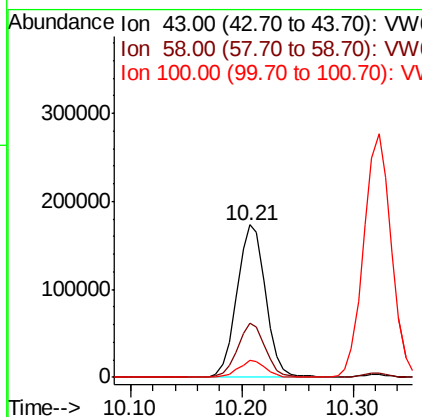
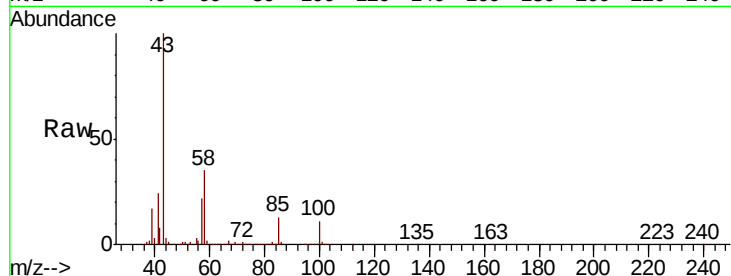




#43
4-Methyl-2-pentanone
Concen: 52.123 ug/L
RT: 10.21 min Scan# 1362
Delta R.T. 0.00 min
Lab File: VW015141.D
Acq: 25 Mar 2020 17:28

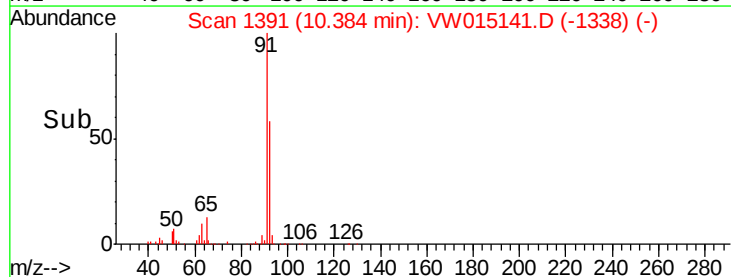
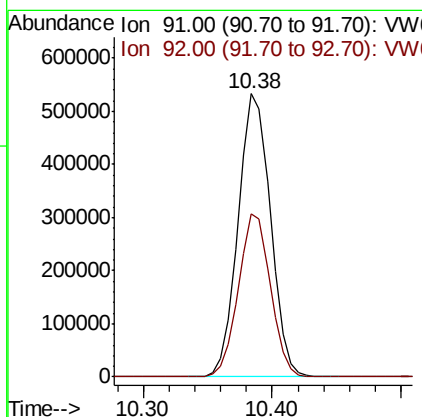
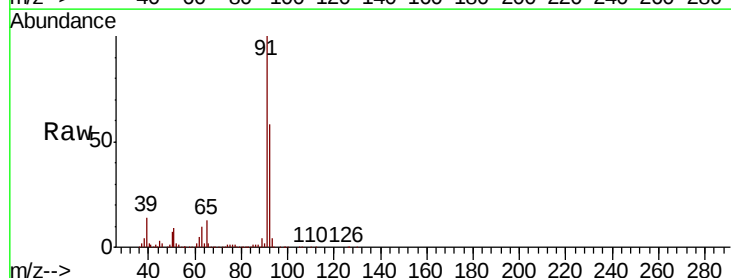
Instrument :
MSVOA_W
ClientSampled :

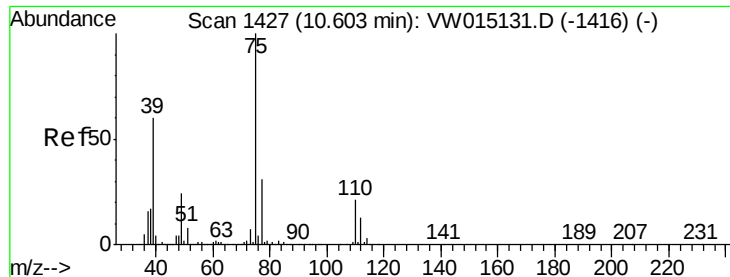
Tot Ion: 43 Resp: 308421
Ion Ratio Lower Upper
43 100
58 34.2 27.9 41.9
100 10.7 8.9 13.3



#44
Toluene
Concen: 24.656 ug/L
RT: 10.38 min Scan# 1391
Delta R.T. -0.01 min
Lab File: VW015141.D
Acq: 25 Mar 2020 17:28

Tgt Ion: 91 Resp: 924595
Ion Ratio Lower Upper
91 100
92 57.6 40.2 74.6





#45

trans-1,3-Dichloropropene

Concen: 24.480 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW015141.D

Acq: 25 Mar 2020 17:28

Instrument :

MSVOA_W

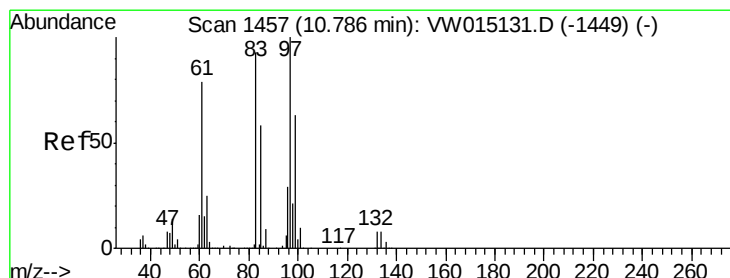
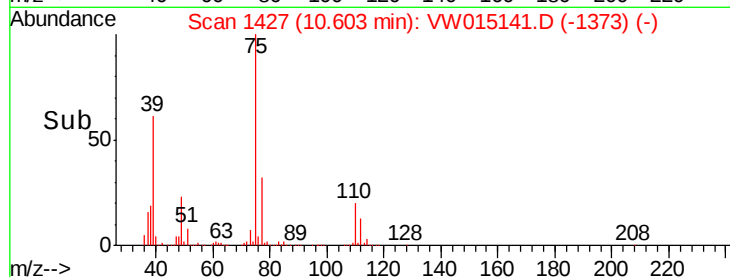
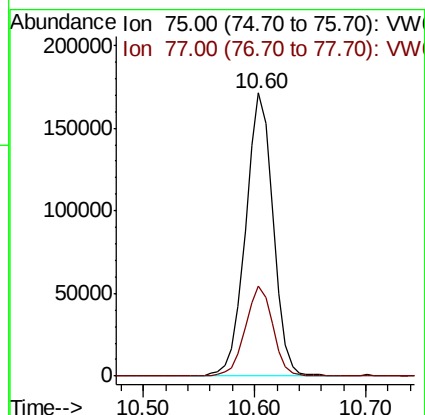
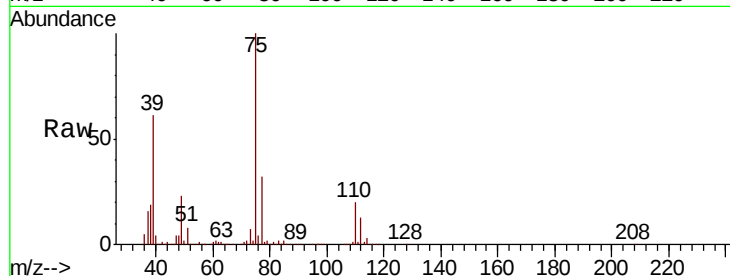
ClientSampleId :

Tot Ion: 75 Resp: 294154

Ion Ratio Lower Upper

75 100

77 31.8 21.8 40.4



#46

1,1,2-Trichloroethane

Concen: 23.683 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW015141.D

Acq: 25 Mar 2020 17:28

Tgt Ion: 97 Resp: 145600

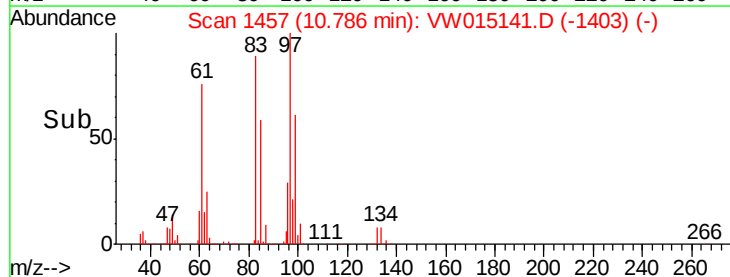
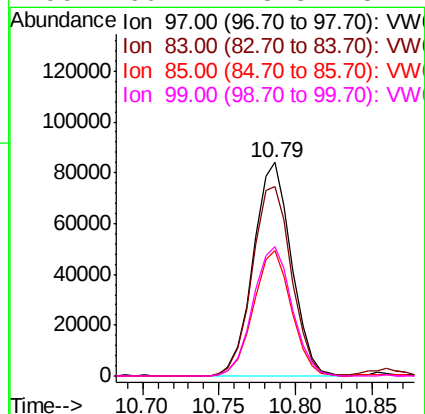
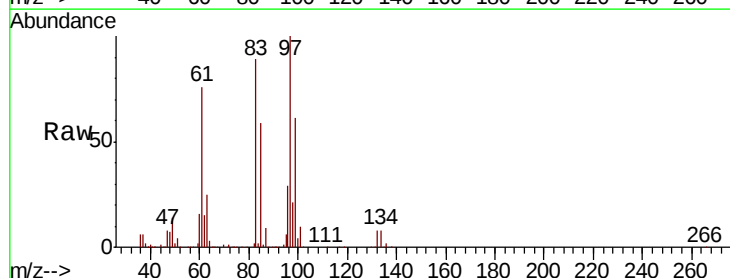
Ion Ratio Lower Upper

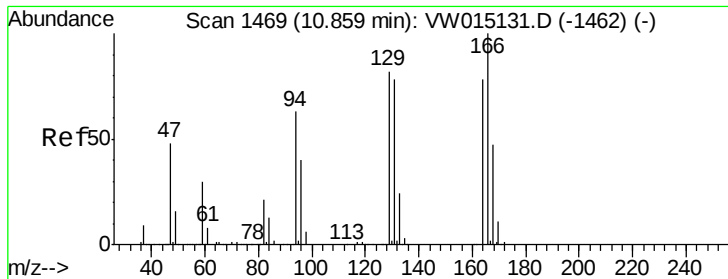
97 100

83 88.9 64.8 120.4

85 59.0 40.9 75.9

99 60.7 43.8 81.4





#47

Tetrachloroethene

Concen: 22.863 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VW015141.D

Acq: 25 Mar 2020 17:28

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion:164 Resp: 136217

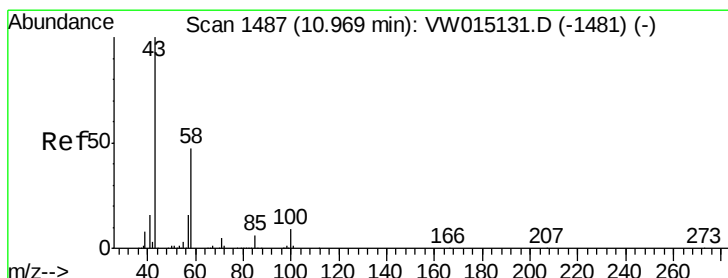
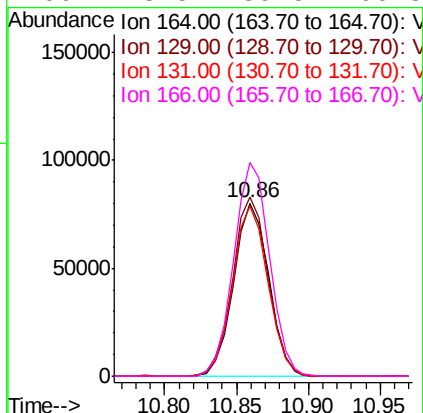
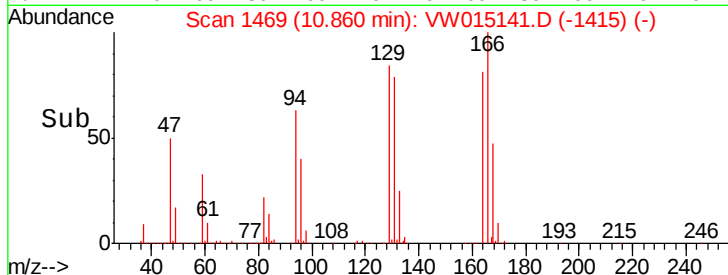
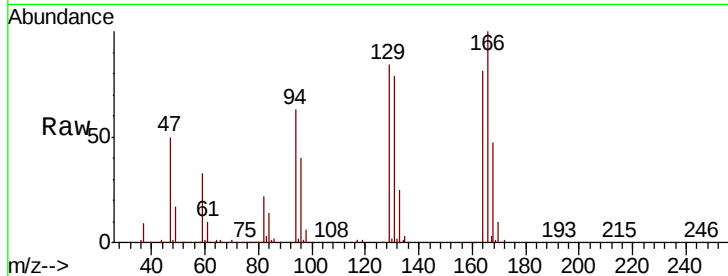
Ion	Ratio	Lower	Upper
164	100		
129	103.8	73.2	136.0
131	98.2	69.4	128.8
166	123.5	89.5	166.3

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: 54.938 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW015141.D

Acq: 25 Mar 2020 17:28

Tgt Ion: 43 Resp: 216803

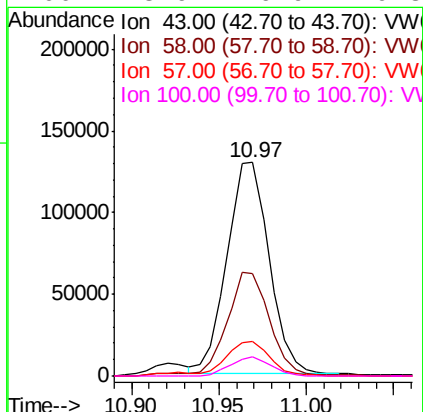
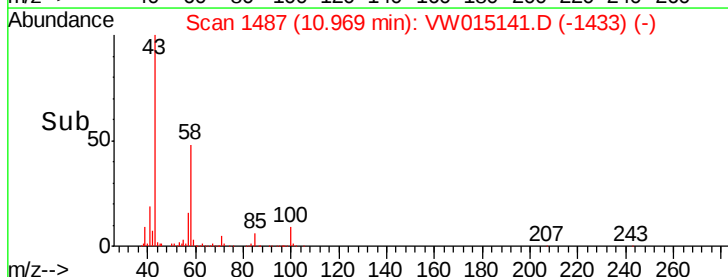
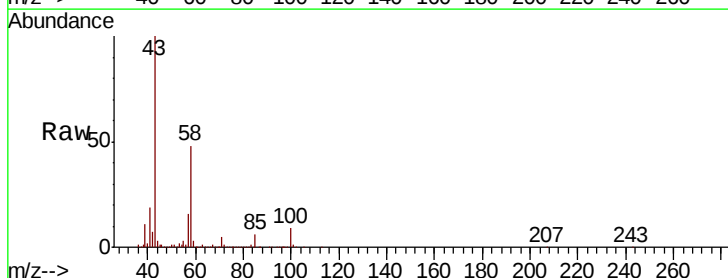
Ion	Ratio	Lower	Upper
43	100		
58	48.8	38.5	57.7
57	16.7	12.9	19.3
100	8.9	6.9	10.3

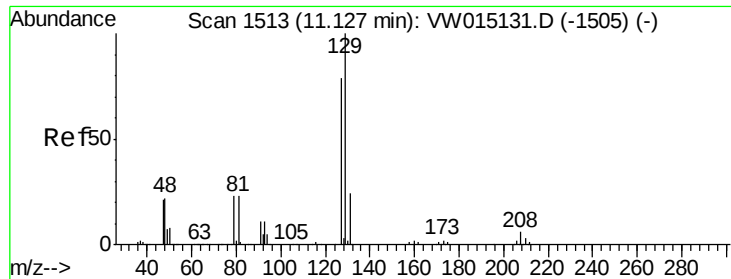
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW





#50

Dibromochloromethane

Concen: 23.729 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW015141.D

Acq: 25 Mar 2020 17:28

Instrument :

MSVOA_W

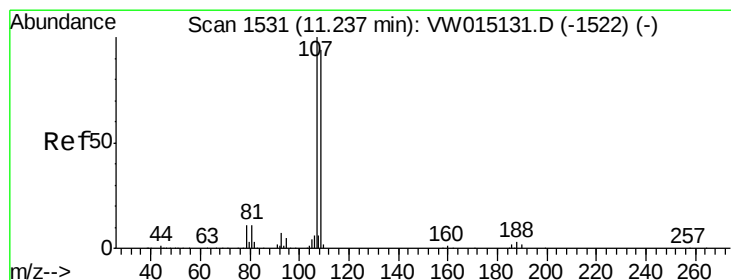
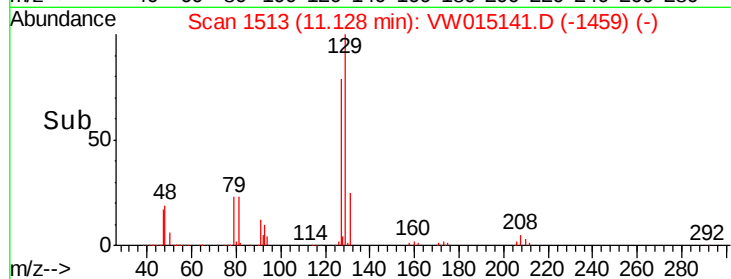
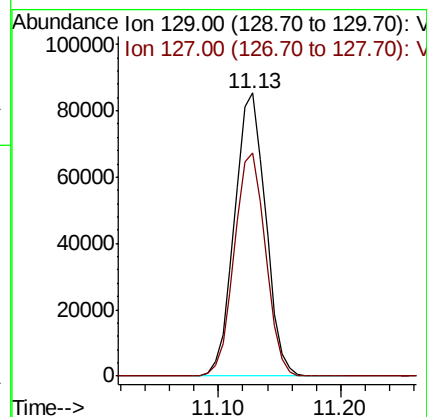
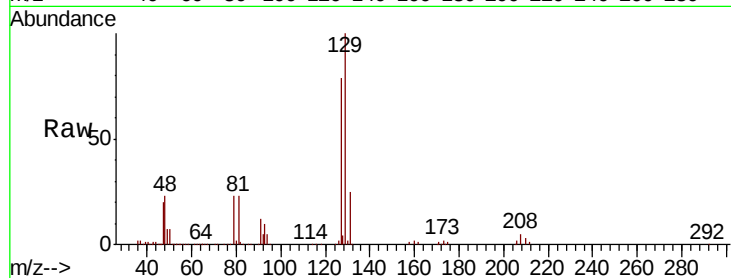
ClientSampleId :

Tot Ion:129 Resp: 149977

Ion Ratio Lower Upper

129 100

127 78.7 55.1 102.3



#51

1,2-Dibromoethane

Concen: 23.416 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. -0.01 min

Lab File: VW015141.D

Acq: 25 Mar 2020 17:28

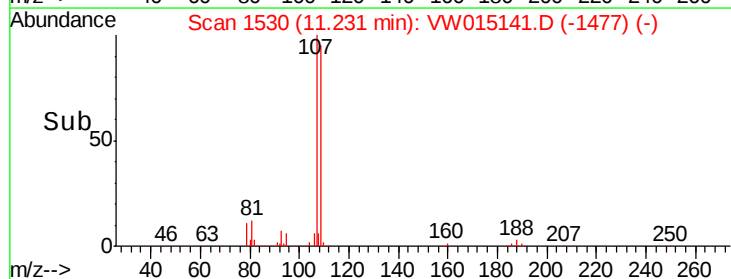
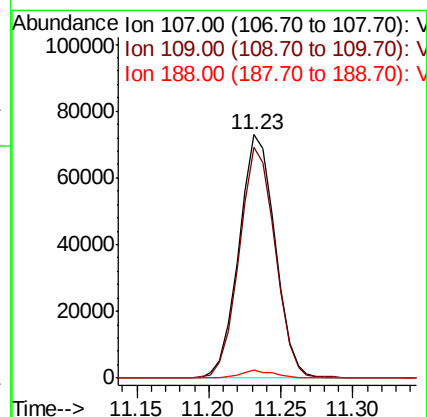
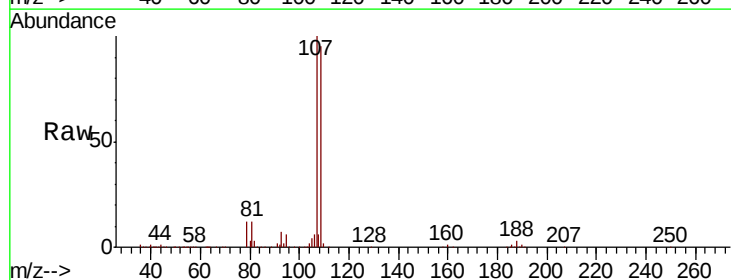
Tgt Ion:107 Resp: 127494

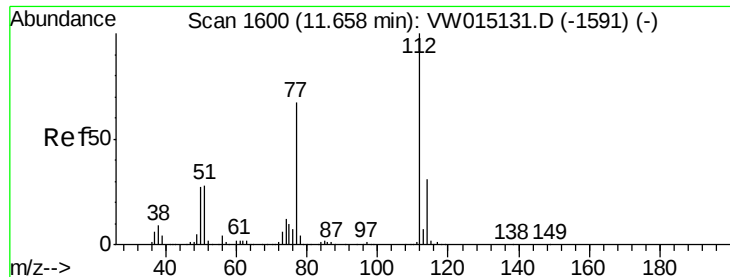
Ion Ratio Lower Upper

107 100

109 94.8 65.9 122.5

188 3.3 2.3 3.5





#52

Chlorobenzene

Concen: 23.487 ug/L

RT: 11.65 min Scan# 1599

Delta R.T. -0.01 min

Lab File: VW015141.D

Acq: 25 Mar 2020 17:28

Instrument :

MSVOA_W

ClientSampleId :

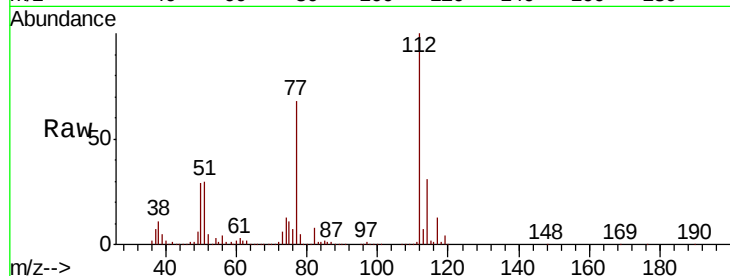
Tot Ion:112 Resp: 514816

Ion Ratio Lower Upper

112 100

77 67.9 53.5 80.3

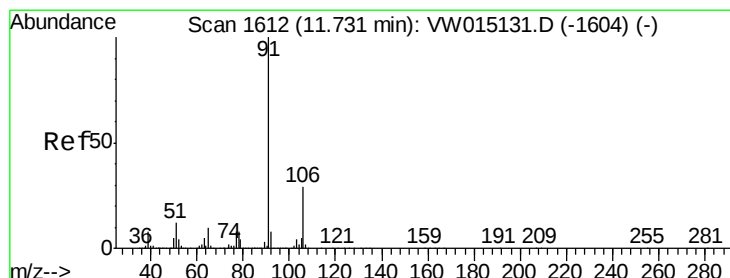
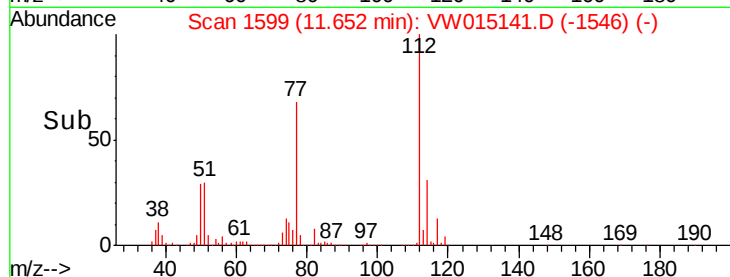
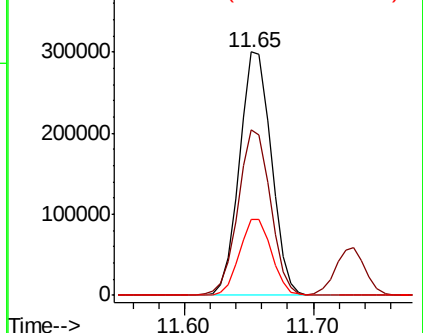
114 31.0 22.0 40.8



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VW

Ion 114.00 (113.70 to 114.70): V



#53

Ethylbenzene

Concen: 24.667 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW015141.D

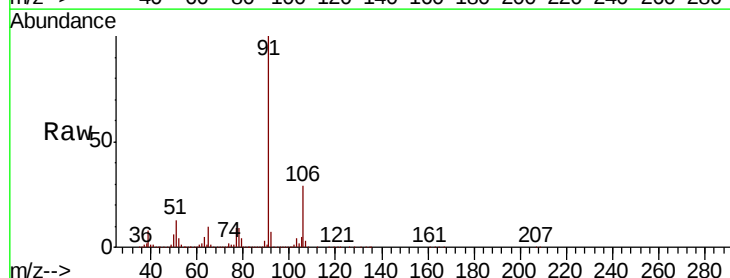
Acq: 25 Mar 2020 17:28

Tgt Ion: 91 Resp: 999154

Ion Ratio Lower Upper

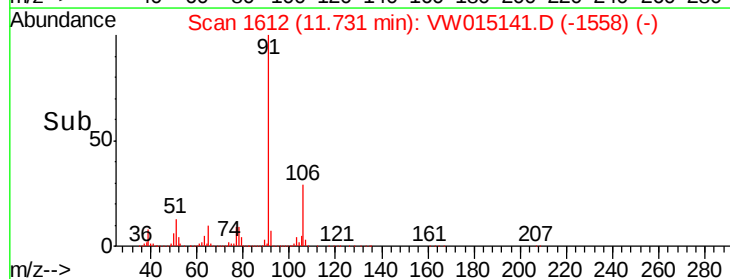
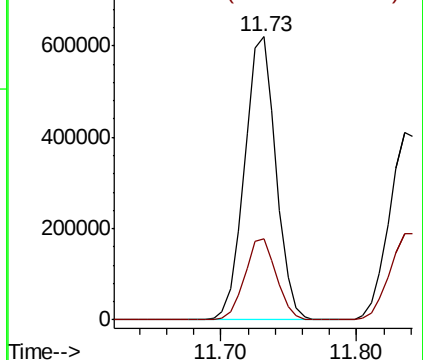
91 100

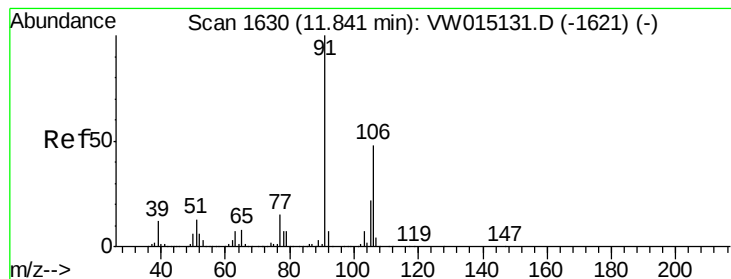
106 28.5 20.6 38.2



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V





#54

m,p-Xylene

Concen: 24.958 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.01 min

Lab File: VW015141.D

Acq: 25 Mar 2020 17:28

Instrument :

MSVOA_W

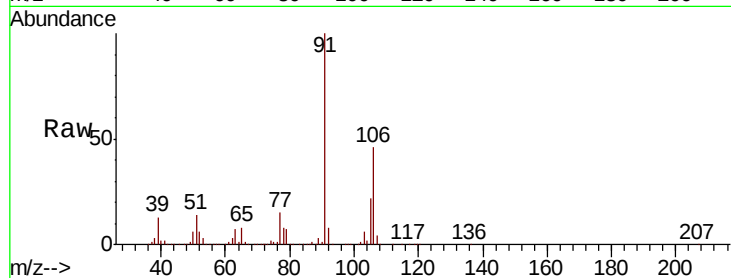
ClientSampled :

Tot Ion:106 Resp: 354406

Ion Ratio Lower Upper

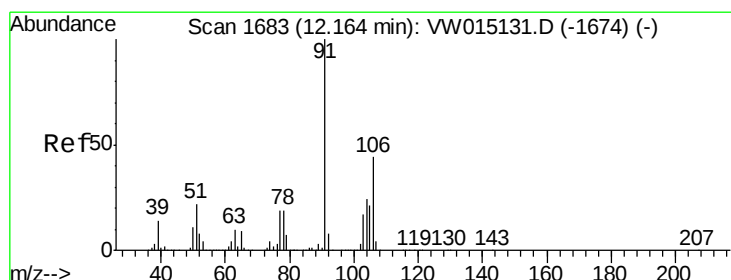
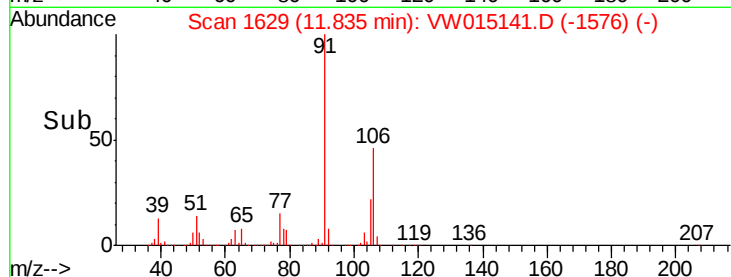
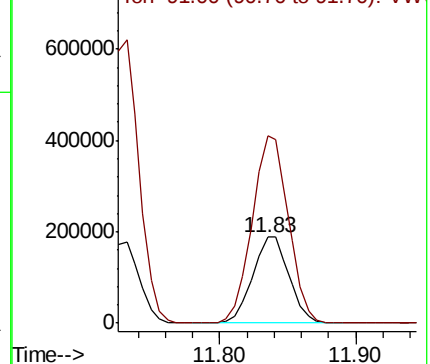
106 100

91 216.8 147.3 273.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 24.837 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. 0.00 min

Lab File: VW015141.D

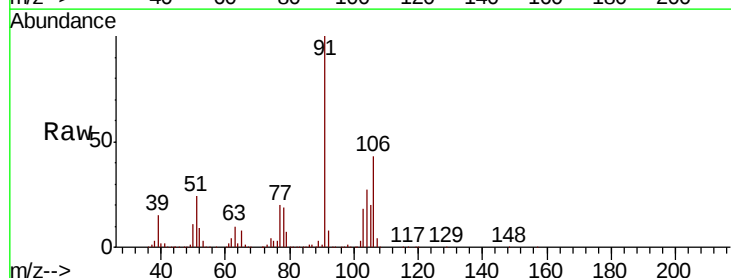
Acq: 25 Mar 2020 17:28

Tgt Ion:106 Resp: 330651

Ion Ratio Lower Upper

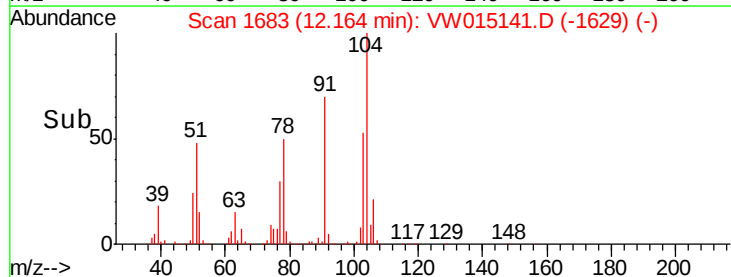
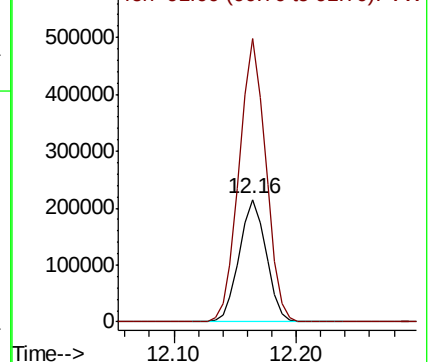
106 100

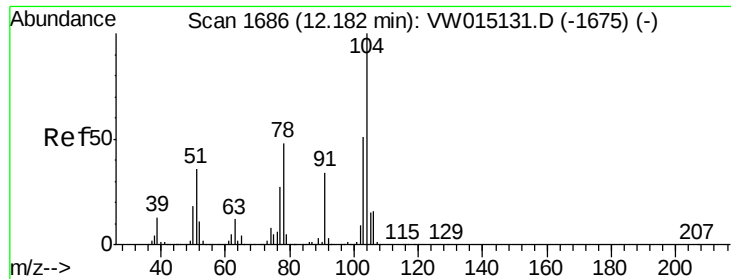
91 230.6 158.6 294.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#56

Stvrene

Concen: 25.234 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VW015141.D

Acq: 25 Mar 2020 17:28

Instrument :

MSVOA_W

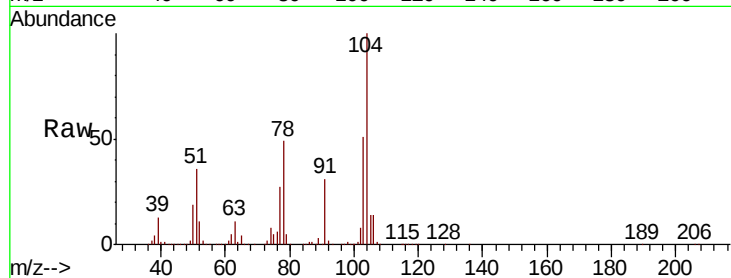
ClientSampleId :

Tot Ion:104 Resp: 571727

Ion Ratio Lower Upper

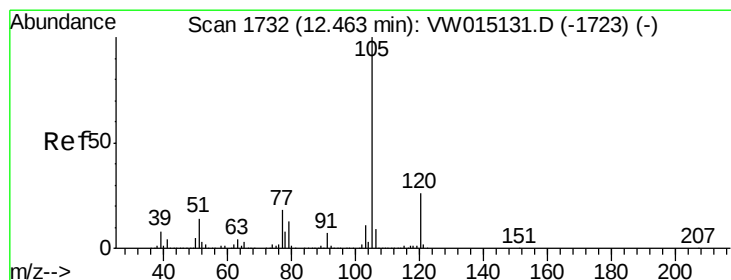
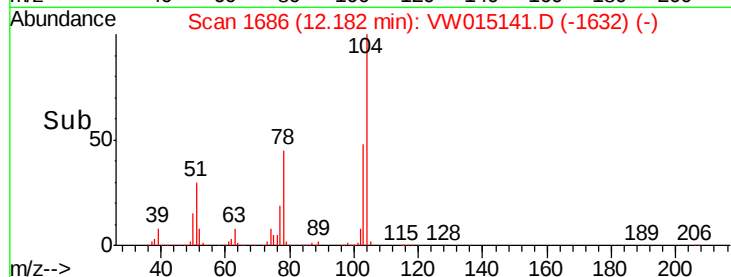
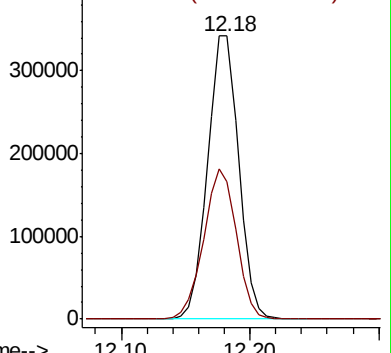
104 100

78 48.7 33.9 63.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VW



#57

Isopropylbenzene

Concen: 25.105 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW015141.D

Acq: 25 Mar 2020 17:28

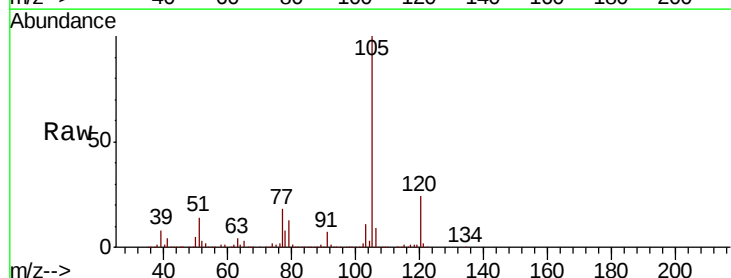
Tgt Ion:105 Resp: 920810

Ion Ratio Lower Upper

105 100

120 24.8 20.0 30.0

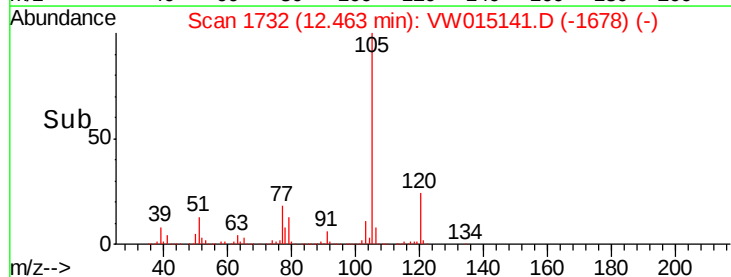
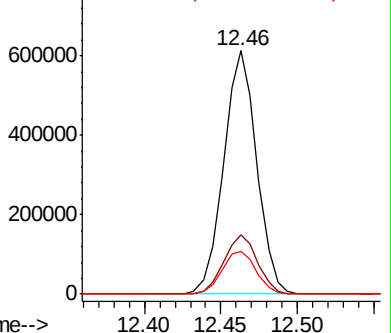
77 18.3 14.5 21.7

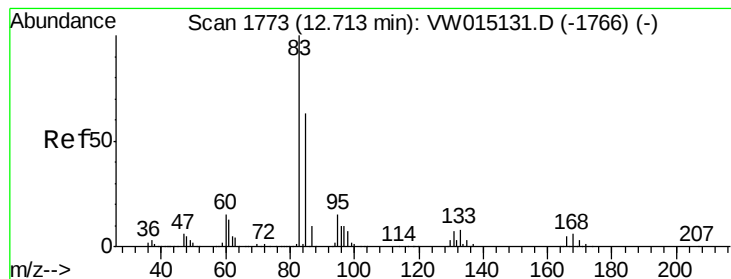


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VW





#58

1,1,2,2-Tetrachloroethane

Concen: 24.091 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW015141.D

Acq: 25 Mar 2020 17:28

Instrument :

MSVOA_W

ClientSampled :

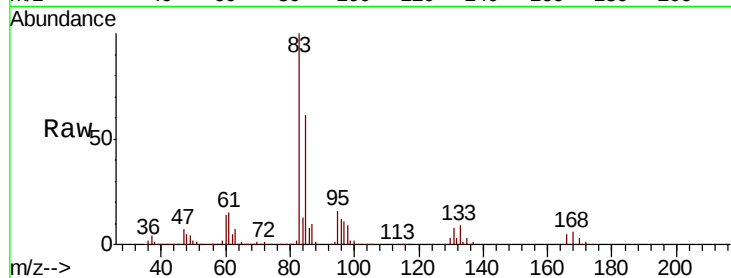
Tot Ion: 83 Resp: 185377

Ion Ratio Lower Upper

83 100

85 61.2 44.1 81.9

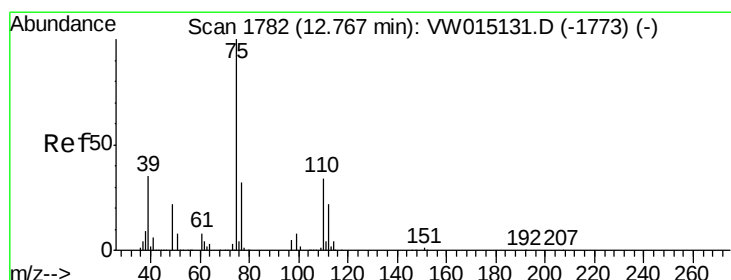
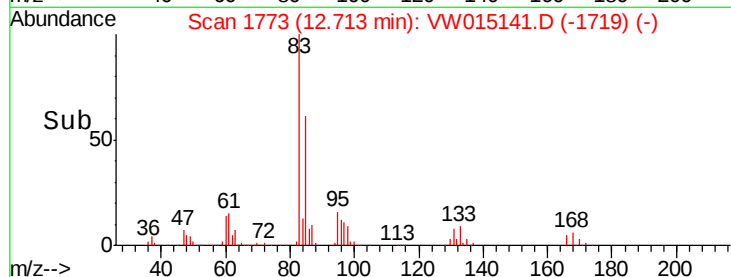
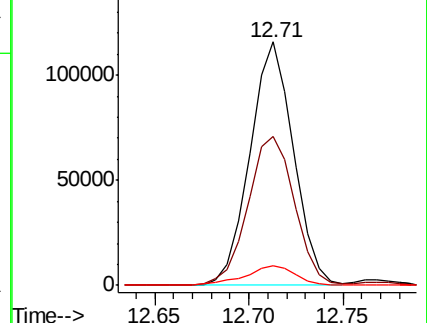
131 8.3 5.9 8.9



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): VW



#59

1,2,3-Trichloropropane

Concen: 24.443 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW015141.D

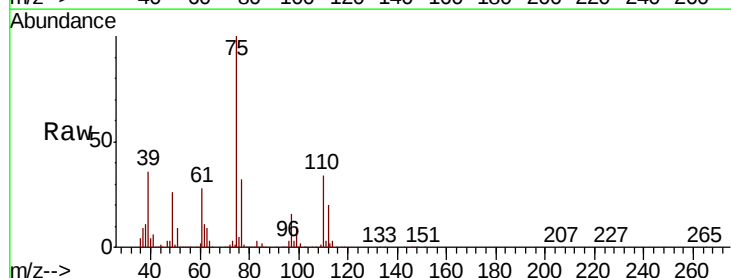
Acq: 25 Mar 2020 17:28

Tgt Ion: 75 Resp: 140681

Ion Ratio Lower Upper

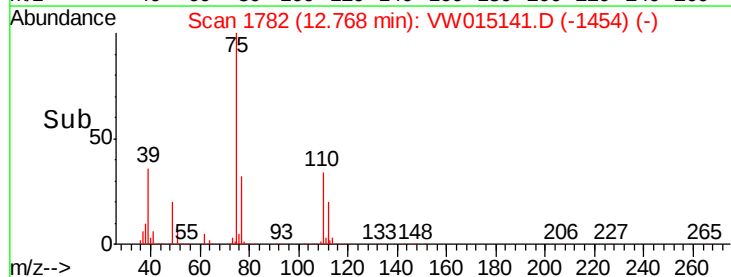
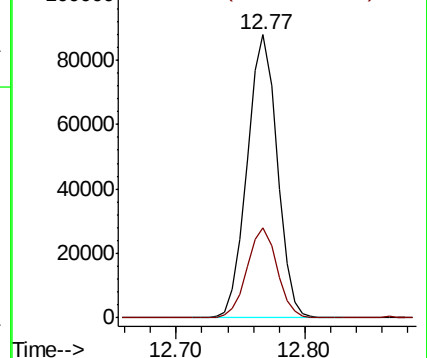
75 100

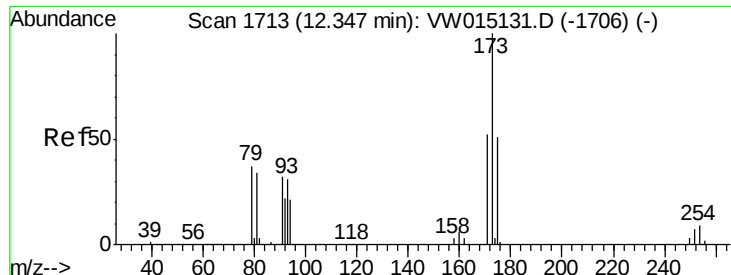
77 31.9 25.8 38.6



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

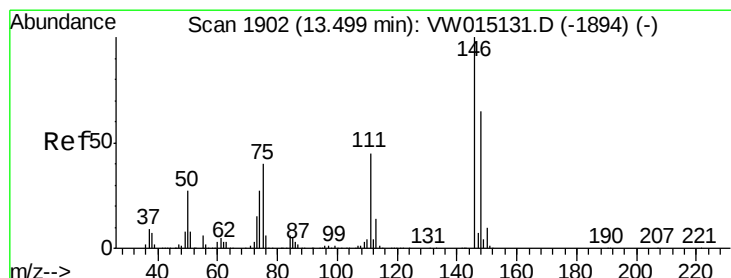
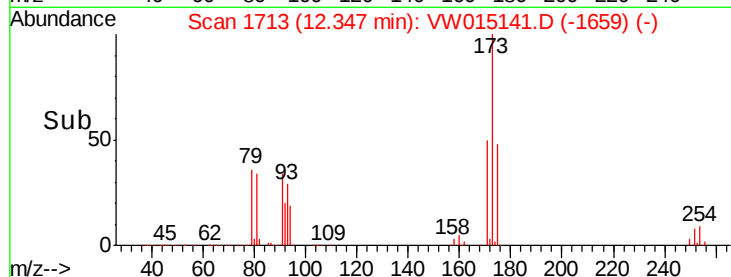
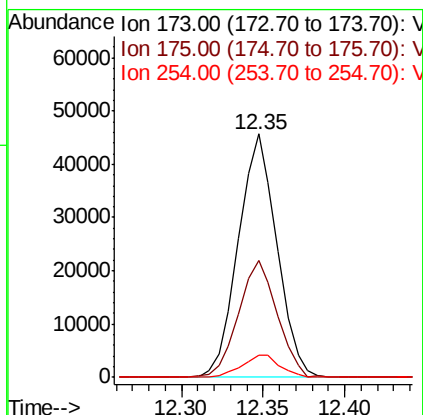
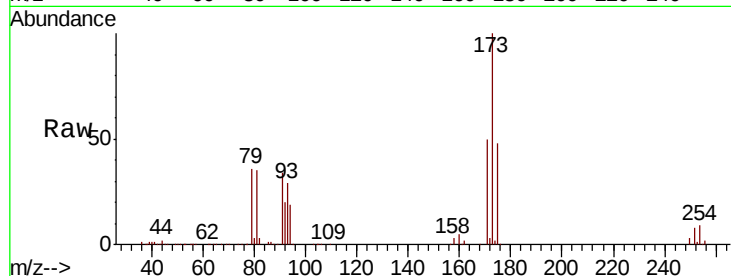




#62
Bromoform
Concen: 22.748 ug/L
RT: 12.35 min Scan# 1713
Delta R.T. 0.00 min
Lab File: VW015141.D
Acq: 25 Mar 2020 17:28

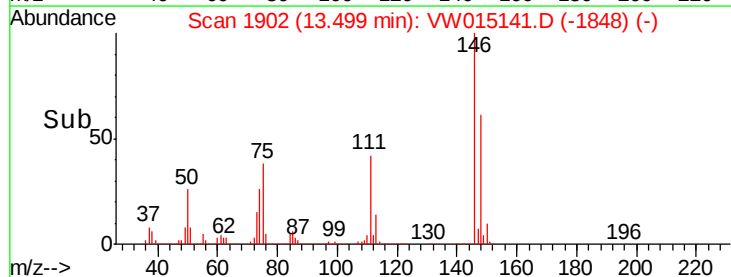
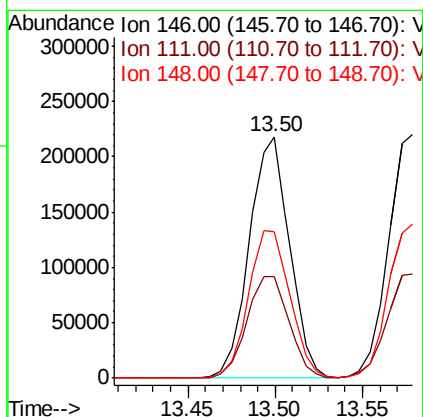
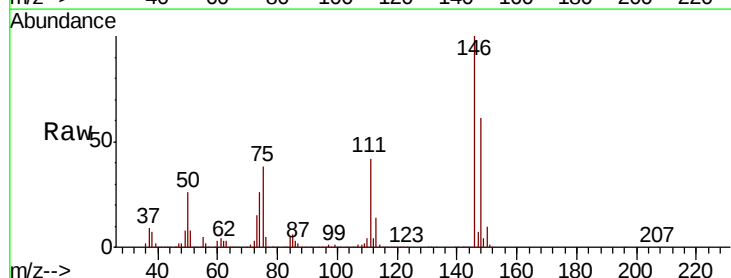
Instrument :
MSVOA_W
ClientSampleId :

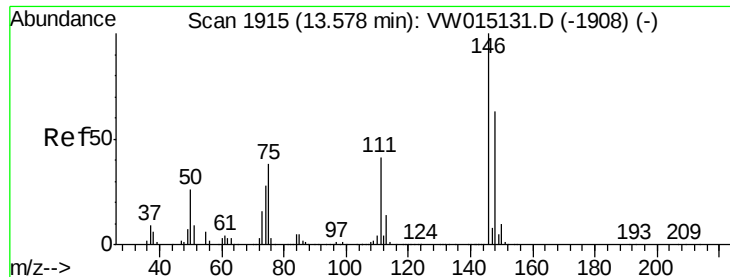
Tot Ion:173 Resp: 75265
Ion Ratio Lower Upper
173 100
175 48.1 38.0 57.0
254 9.0 6.5 9.7



#63
1,3-Dichlorobenzene
Concen: 23.335 ug/L
RT: 13.50 min Scan# 1902
Delta R.T. 0.00 min
Lab File: VW015141.D
Acq: 25 Mar 2020 17:28

Tgt Ion:146 Resp: 348061
Ion Ratio Lower Upper
146 100
111 42.3 31.9 59.2
148 60.8 45.2 84.0





#64

1,4-Dichlorobenzene

Concen: 22.924 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. 0.00 min

Lab File: VW015141.D

Acq: 25 Mar 2020 17:28

Instrument :

MSVOA_W

ClientSampled :

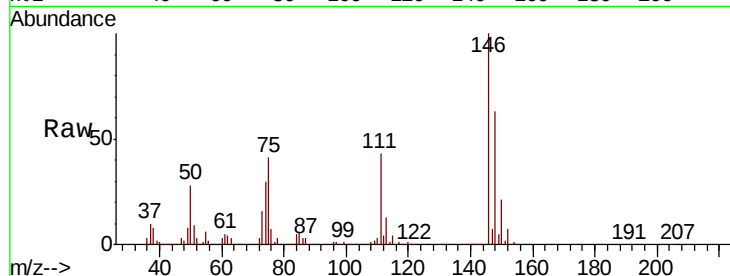
Tot Ion:146 Resp: 349842

Ion Ratio Lower Upper

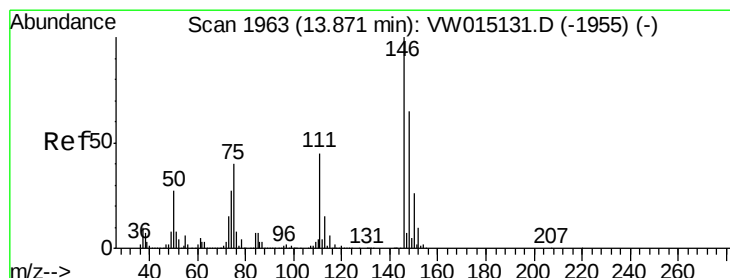
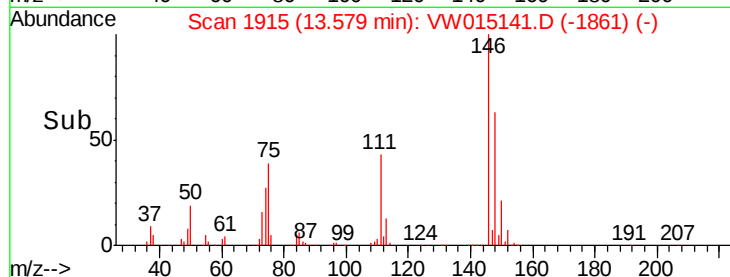
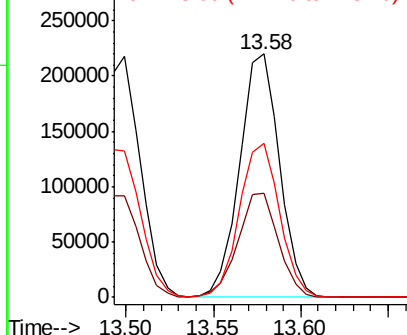
146 100

111 42.6 28.8 53.4

148 63.5 44.0 81.6



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: 23.659 ug/L

RT: 13.87 min Scan# 1962

Delta R.T. -0.01 min

Lab File: VW015141.D

Acq: 25 Mar 2020 17:28

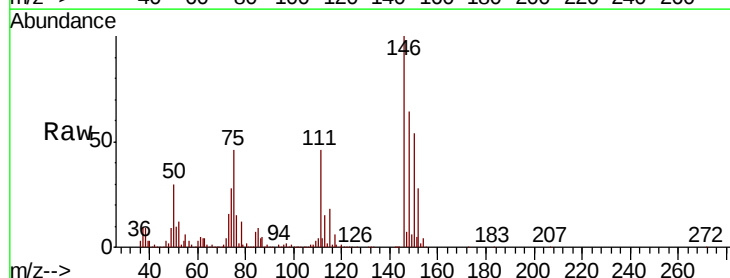
Tgt Ion:146 Resp: 321152

Ion Ratio Lower Upper

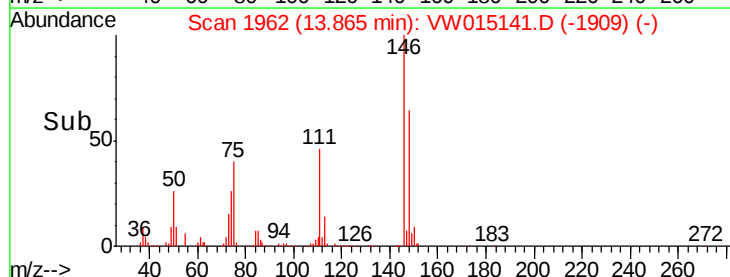
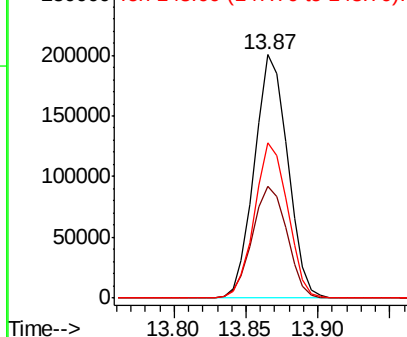
146 100

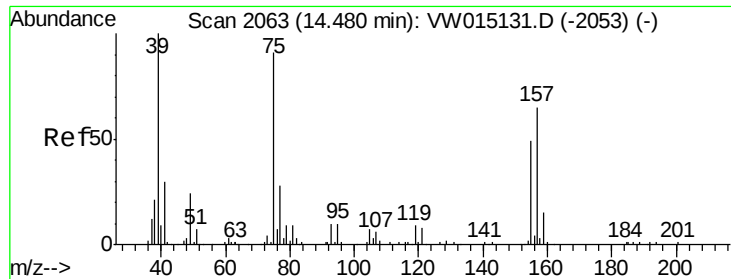
111 46.1 35.8 53.8

148 63.7 52.3 78.5



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

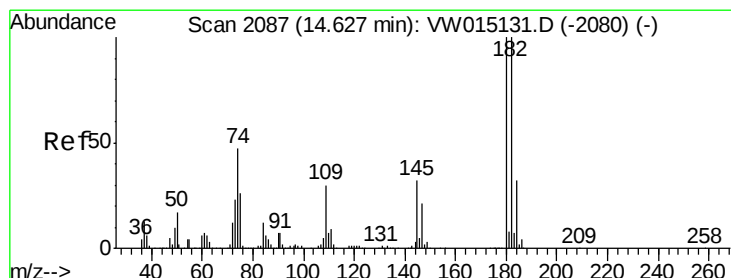
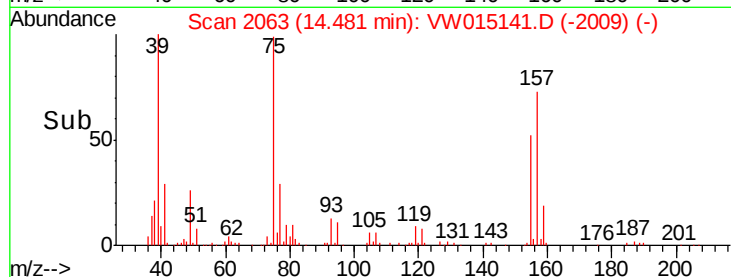
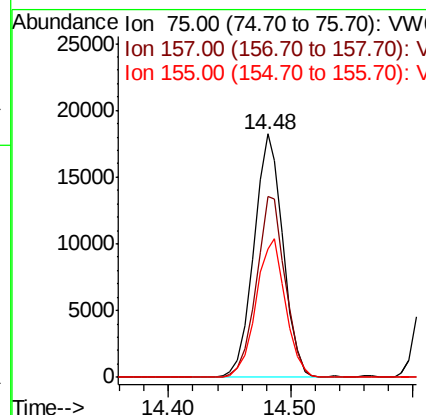
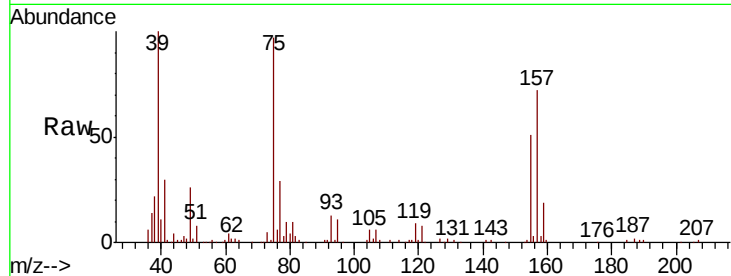




#66
 1,2-Dibromo-3-chloropropane
 Concen: 23.243 ug/L
 RT: 14.48 min Scan# 2063
 Delta R.T. 0.00 min
 Lab File: VW015141.D
 Acq: 25 Mar 2020 17:28

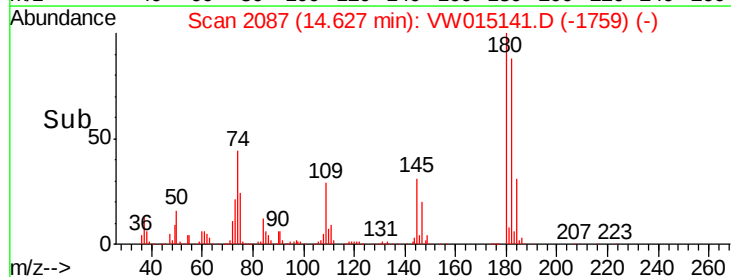
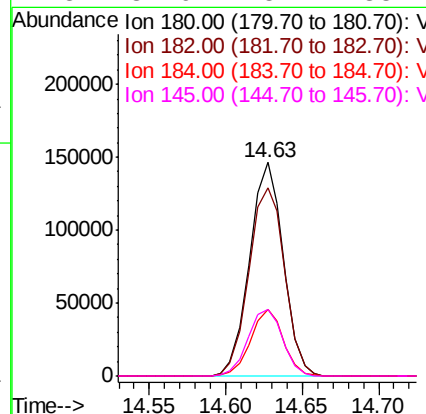
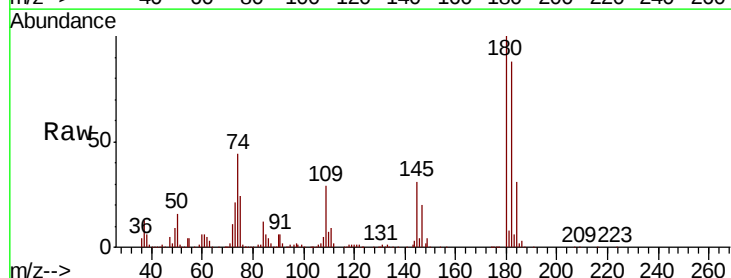
Instrument :
 MSVOA_W
 ClientSampleId :

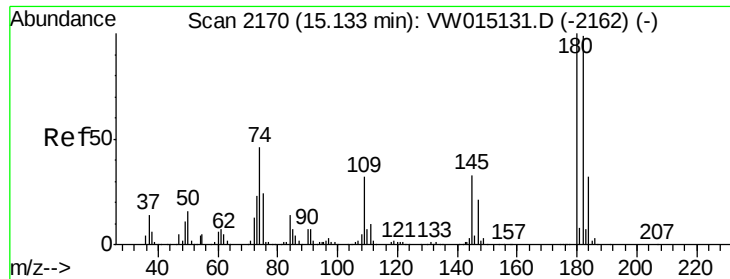
Tot Ion: 75 Resp: 30053
 Ion Ratio Lower Upper
 75 100
 157 74.3 57.3 85.9
 155 52.7 43.2 64.8



#67
 1,3,5-Trichlorobenzene
 Concen: 23.321 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW015141.D
 Acq: 25 Mar 2020 17:28

Tgt Ion: 180 Resp: 223941
 Ion Ratio Lower Upper
 180 100
 182 93.3 77.0 115.6
 184 30.2 24.0 36.0
 145 31.9 25.4 38.2

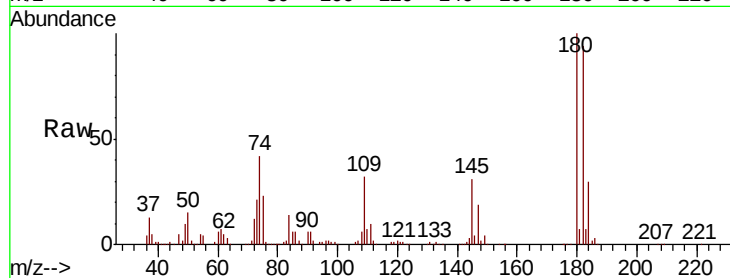




#68
1,2,4-trichlorobenzene
Concen: 23.957 ug/L
RT: 15.13 min Scan# 2170
Delta R.T. 0.00 min
Lab File: VW015141.D
Acq: 25 Mar 2020 17:28

Instrument :
MSVOA_W
ClientSampled :

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.9	75.8	113.6
145	32.8	25.8	38.6

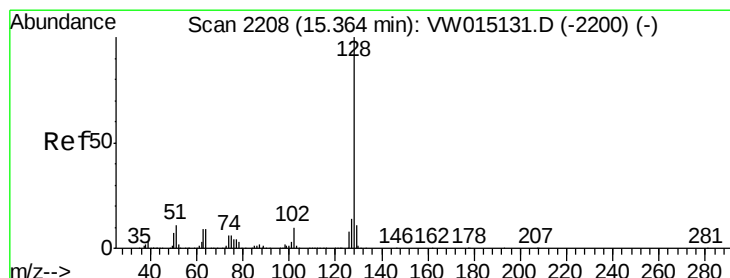
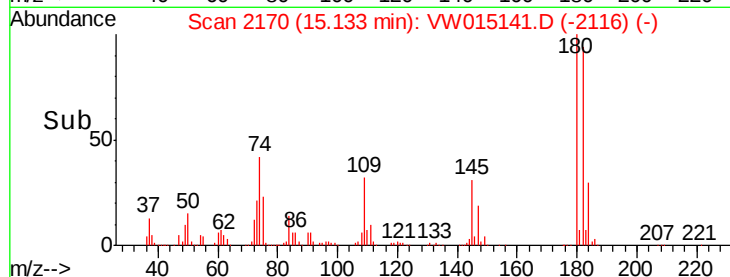
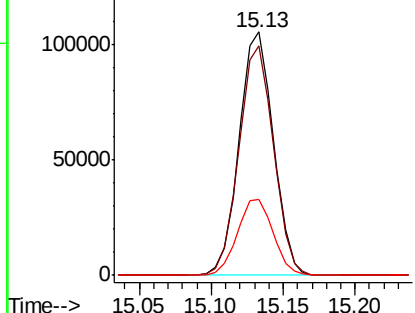


Abundance

Ion 180.00 (179.70 to 180.70): V

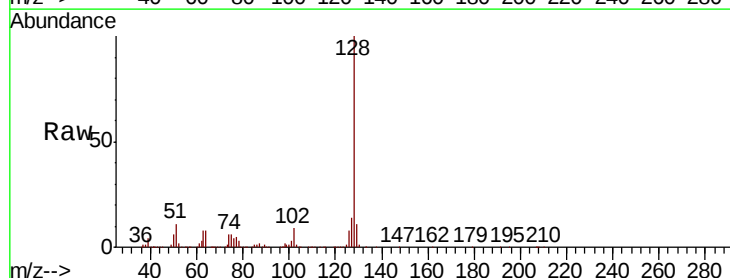
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#69
Naphthalene
Concen: 24.759 ug/L
RT: 15.36 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VW015141.D
Acq: 25 Mar 2020 17:28

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.9	13.3
127	14.0	11.0	16.4

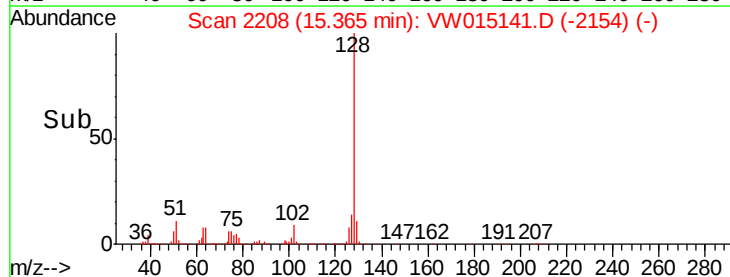
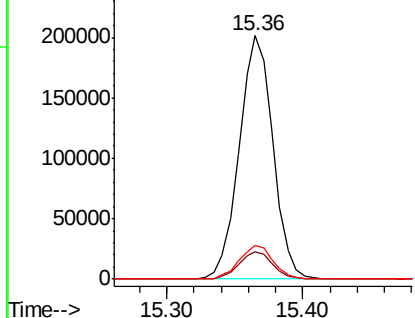


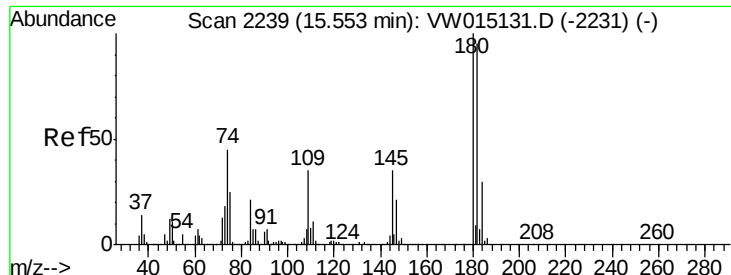
Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#70

1,2,3-Trichlorobenzene

Concen: 24.173 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VW015141.D

Acq: 25 Mar 2020 17:28

Instrument :

MSVOA_W

ClientSampleId :

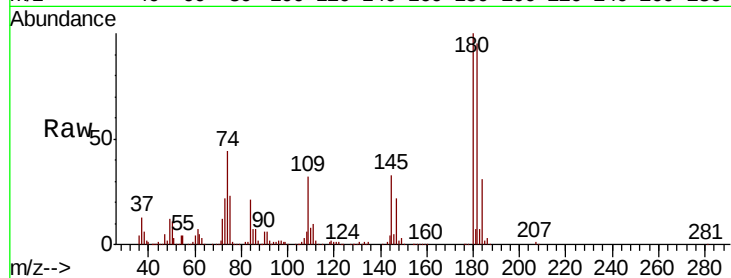
Tot Ion:180 Resp: 162583

Ion Ratio Lower Upper

180 100

182 94.7 75.9 113.9

145 34.8 27.6 41.4



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

