

Data File : VW013318.D
Acq On : 27 Sep 2019 12:22
Operator : SY/VA
Sample : MDL03
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
MDL03

Quant Time: Sep 28 03:41:05 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM092619S.M
Quant Title : VOC Analysis
QLast Update : Sat Sep 28 03:37:10 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	392870	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	345340	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	165661	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	122823	26.22	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	104.88%
7) Chloroethane-d5	2.88	69	95174	25.31	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	101.24%
10) 1,1-Dichloroethene-d2	4.01	63	183658	19.91	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	79.64%
20) 2-Butanone-d5	7.08	46	104815	64.74	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	129.48%
24) Chloroform-d	7.65	84	214054	24.16	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	96.64%
26) 1,2-Dichloroethane-d4	8.31	65	120751	25.23	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	100.92%
29) Benzene-d6	8.27	84	484780	25.85	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	103.40%
33) 1,2-Dichloropropane-d6	9.27	67	140999	25.23	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	100.92%
37) Toluene-d8	10.32	98	448845	25.42	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	101.68%
38) trans-1,3-Dichloropropene-	10.58	79	60750	24.20	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	96.80%
39) 2-Hexanone-d5	10.93	63	72898	59.63	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	119.26%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	124813	26.31	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	105.24%
61) 1,2-Dichlorobenzene-d4	13.85	152	151552	25.61	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	102.44%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.00	85	2586	1.052 ug/L #	83
3) Chloromethane	2.21	50	6455	1.959 ug/L	95
5) Vinyl chloride	2.35	62	9095	1.996 ug/L #	73
6) Bromomethane	2.78	94	5651	1.951 ug/L	91
8) Chloroethane	2.92	64	4497	1.627 ug/L	97
9) Trichlorofluoromethane	3.26	101	5052	1.789 ug/L #	50
11) 1,1,2-Trichloro-1,2,2-trif	4.07	101	8610	1.929 ug/L #	74
12) 1,1-Dichloroethene	4.04	96	9430	2.082 ug/L #	1
13) Acetone	4.14	43	7484	5.553 ug/L	84
14) Carbon disulfide	4.38	76	22743	1.769 ug/L	99
15) Methyl Acetate	4.67	43	3145	1.209 ug/L	99
16) Methylene chloride	4.92	84	21420	3.649 ug/L	89
17) Methyl tert-butyl Ether	5.42	73	14641	1.869 ug/L #	84
18) trans-1,2-Dichloroethene	5.42	96	9062	1.871 ug/L	86
19) 1,1-Dichloroethane	6.21	63	15604	1.837 ug/L	95
21) 2-Butanone	7.18	43	12388	6.382 ug/L #	65
22) cis-1,2-Dichloroethene	7.17	96	9919	1.880 ug/L	98

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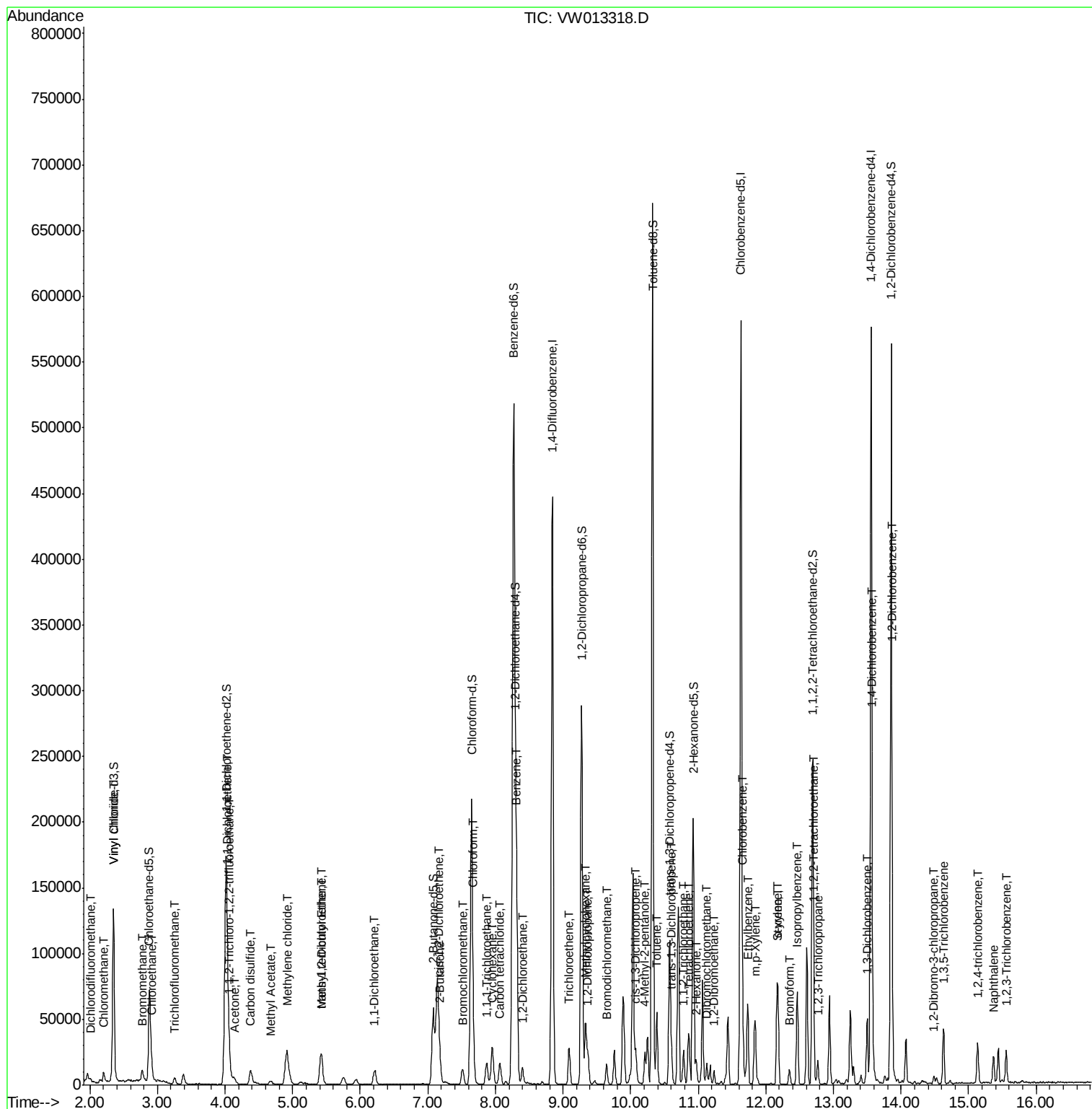
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.52	128	4583	1.930	ug/L	87
25) Chloroform	7.67	83	16642	1.994	ug/L	77
27) 1,2-Dichloroethane	8.40	62	10351	1.893	ug/L	99
30) Cyclohexane	7.95	56	15013	1.810	ug/L	98
31) 1,1,1-Trichloroethane	7.87	97	12481	1.883	ug/L #	80
32) Carbon tetrachloride	8.07	117	12236	1.936	ug/L	99
34) Benzene	8.32	78	37097	1.916	ug/L	100
35) Trichloroethene	9.09	95	9856	1.938	ug/L	98
36) Methylcyclohexane	9.34	83	17270	1.906	ug/L	97
40) 1,2-Dichloropropane	9.37	63	9280	1.948	ug/L	99
41) Bromodichloromethane	9.64	83	11210	1.918	ug/L	92
42) cis-1,3-Dichloropropene	10.07	75	13400	1.761	ug/L	90
43) 4-Methyl-2-pentanone	10.21	43	16994	4.660	ug/L	97
44) Toluene	10.39	91	41506	1.969	ug/L	97
45) trans-1,3-Dichloropropene	10.60	75	12975	2.122	ug/L	84
46) 1,1,2-Trichloroethane	10.79	97	6912	1.852	ug/L	94
47) Tetrachloroethene	10.87	164	9210	2.012	ug/L	92
49) 2-Hexanone	10.97	43	10942	4.175	ug/L	99
50) Dibromochloromethane	11.13	129	8190	1.913	ug/L	91
51) 1,2-Dibromoethane	11.24	107	7417	2.023	ug/L #	93
52) Chlorobenzene	11.66	112	25193	1.897	ug/L	94
53) Ethylbenzene	11.73	91	43362	1.856	ug/L	92
54) m,p-Xylene	11.83	106	17011	1.896	ug/L	86
55) o-xylene	12.16	106	14976	1.769	ug/L	93
56) Styrene	12.18	104	24920	1.717	ug/L	95
57) Isopropylbenzene	12.46	105	41044	1.793	ug/L	98
58) 1,1,2,2-Tetrachloroethane	12.71	83	8879	1.931	ug/L #	95
59) 1,2,3-Trichloropropane	12.77	75	7431	2.166	ug/L	99
62) Bromoform	12.35	173	4718	1.800	ug/L #	87
63) 1,3-Dichlorobenzene	13.50	146	19333	1.897	ug/L	97
64) 1,4-Dichlorobenzene	13.58	146	20081	1.950	ug/L	94
65) 1,2-Dichlorobenzene	13.87	146	18360	1.980	ug/L	100
66) 1,2-Dibromo-3-chloropropan	14.48	75	1735	2.375	ug/L #	82
67) 1,3,5-Trichlorobenzene	14.63	180	13641	1.738	ug/L	94
68) 1,2,4-trichlorobenzene	15.13	180	10237	1.634	ug/L	99
69) Naphthalene	15.36	128	17460	1.459	ug/L #	92
70) 1,2,3-Trichlorobenzene	15.55	180	9554	1.677	ug/L	98

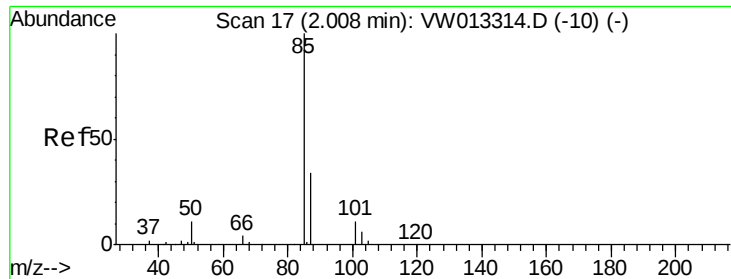
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 1.052 ug/L

RT: 2.00 min Scan# 16

Delta R.T. -0.01 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

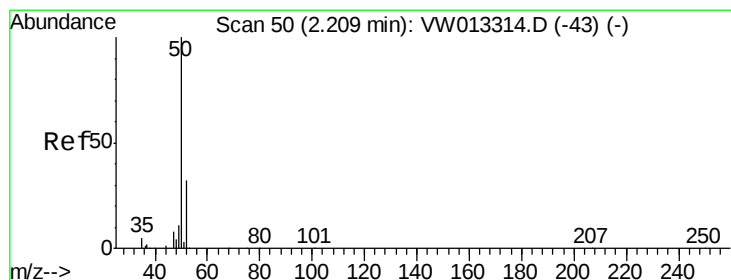
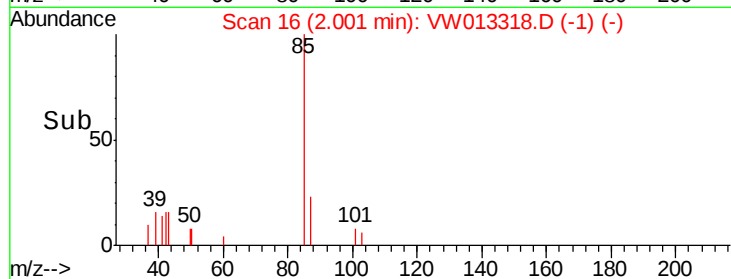
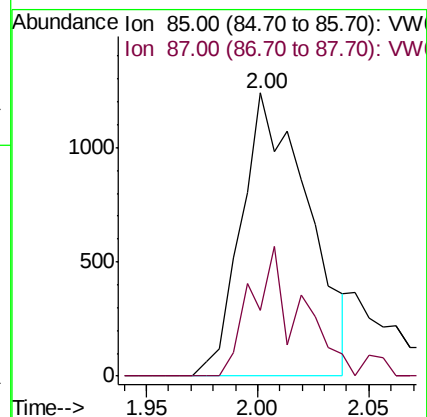
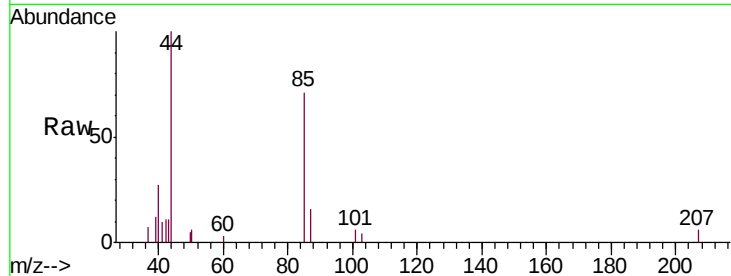
MDL03

Tgt Ion: 85 Resp: 2586

Ion Ratio Lower Upper

85 100

87 21.2 21.3 39.6#



#3

Chloromethane

Concen: 1.959 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.00 min

Lab File: VW013318.D

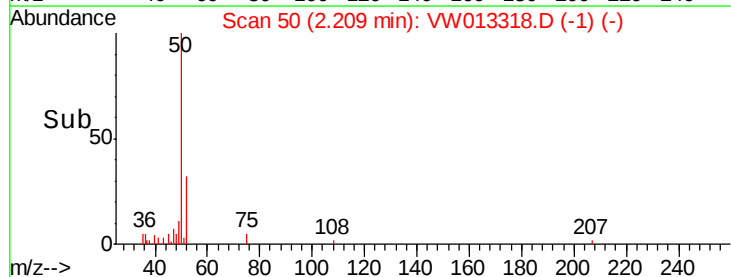
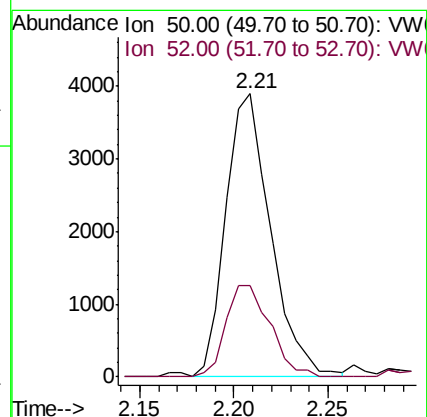
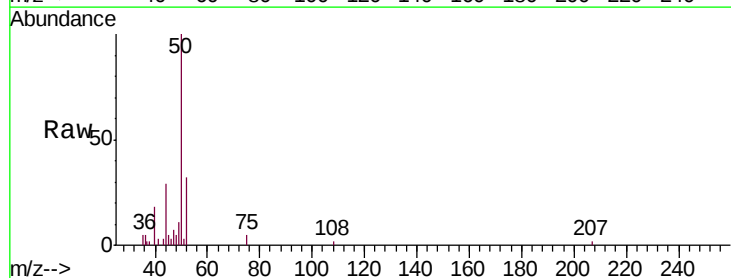
Acq: 27 Sep 2019 12:22

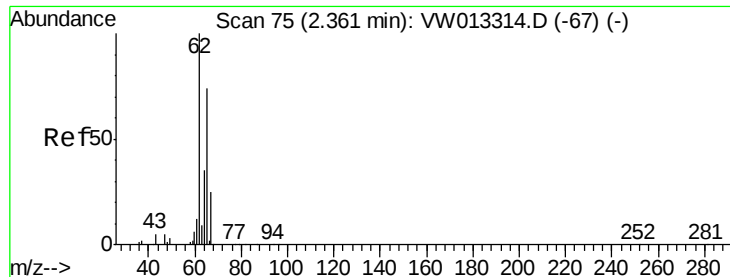
Tgt Ion: 50 Resp: 6455

Ion Ratio Lower Upper

50 100

52 32.2 24.4 45.4





#5

Vinyl chloride

Concen: 1.996 ug/L

RT: 2.35 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

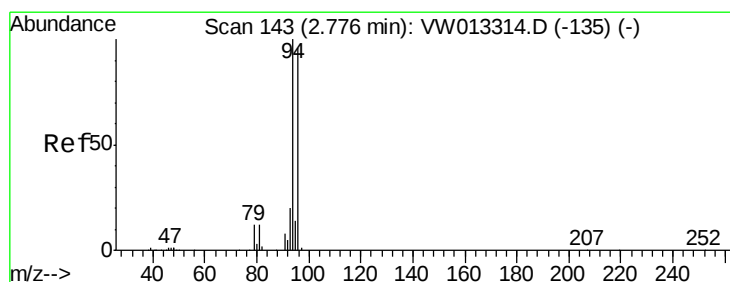
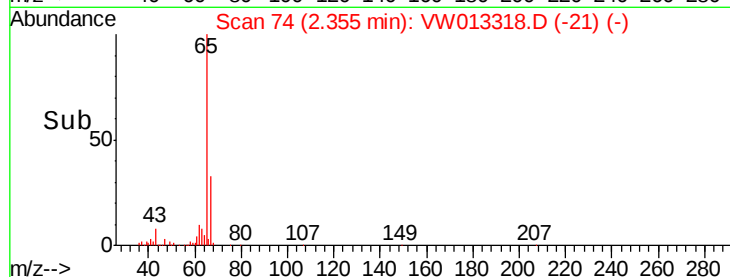
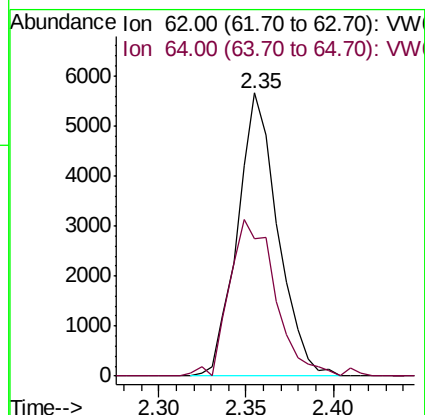
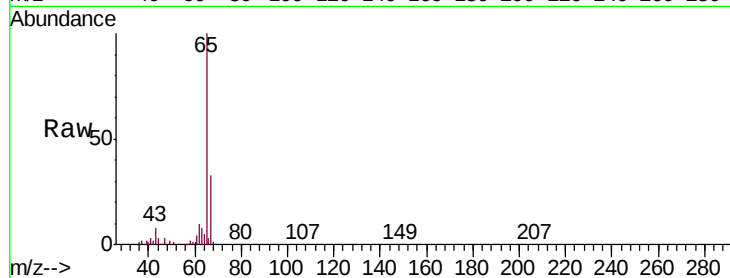
MDL03

Tgt Ion: 62 Resp: 9095

Ion Ratio Lower Upper

62 100

64 48.3 23.2 43.0#



#6

Bromomethane

Concen: 1.951 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.00 min

Lab File: VW013318.D

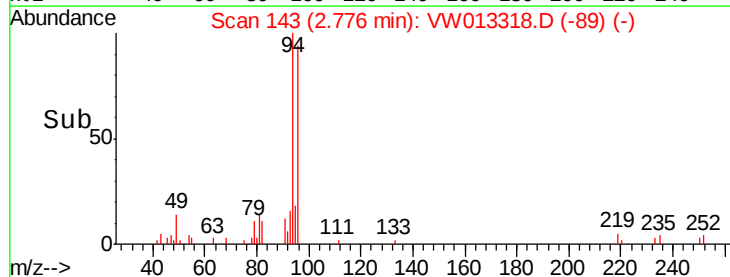
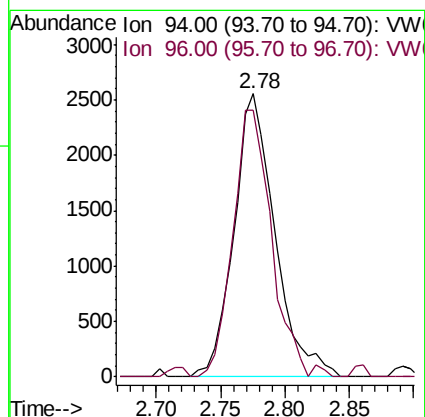
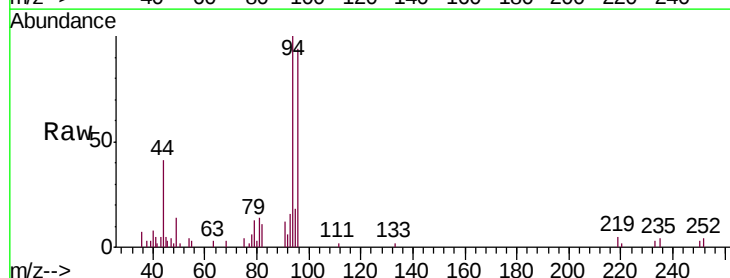
Acq: 27 Sep 2019 12:22

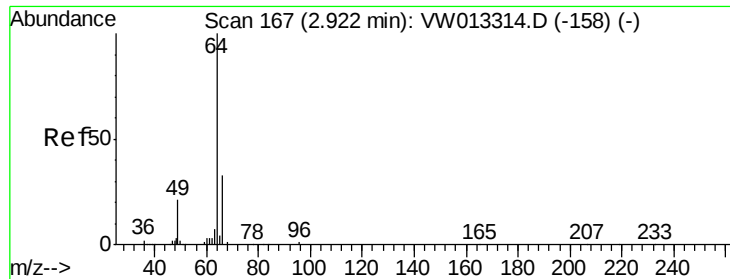
Tgt Ion: 94 Resp: 5651

Ion Ratio Lower Upper

94 100

96 88.1 9.7 184.3





#8

Chloroethane

Concen: 1.627 ug/L

RT: 2.92 min Scan# 167

Delta R.T. -0.00 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

Instrument :

MSVOA_W

ClientSampled :

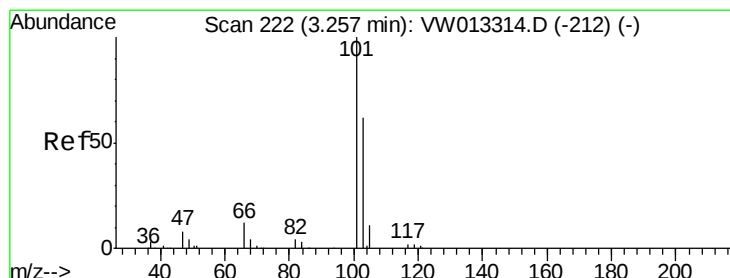
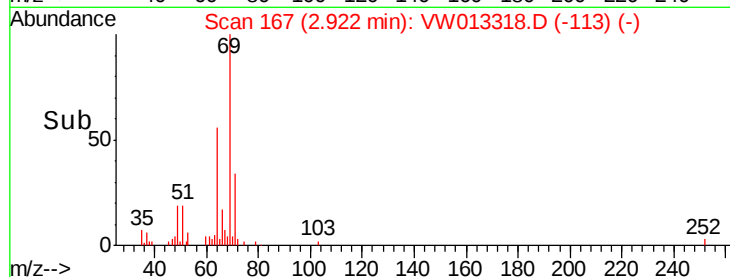
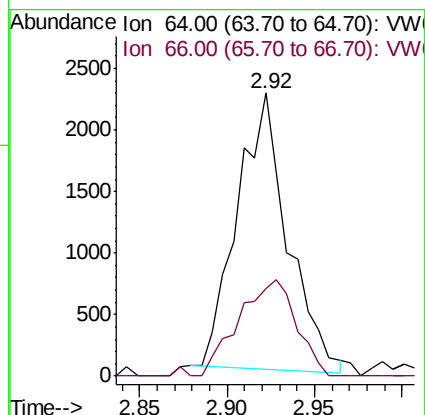
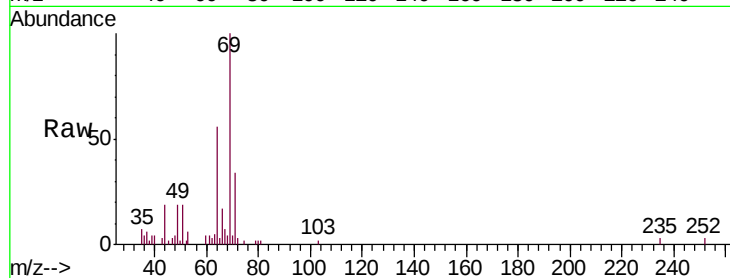
MDL03

Tgt Ion: 64 Resp: 4497

Ion Ratio Lower Upper

64 100

66 30.9 22.7 42.1



#9

Trichlorofluoromethane

Concen: 1.789 ug/L

RT: 3.26 min Scan# 222

Delta R.T. -0.00 min

Lab File: VW013318.D

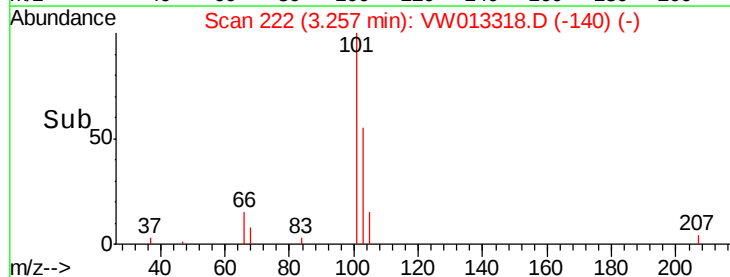
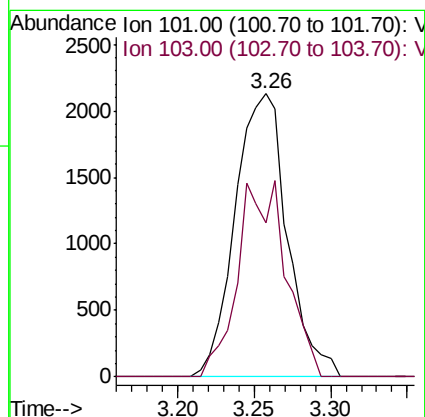
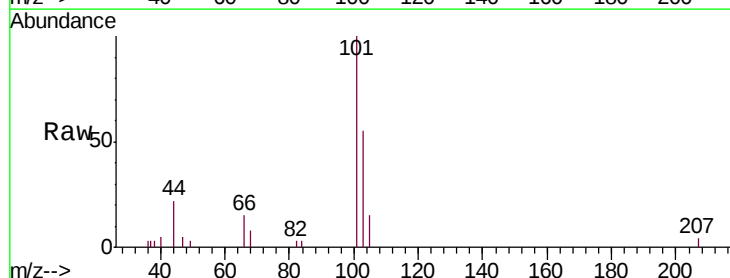
Acq: 27 Sep 2019 12:22

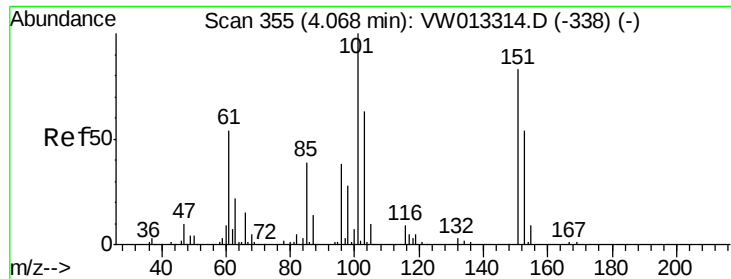
Tgt Ion: 101 Resp: 5052

Ion Ratio Lower Upper

101 100

103 25.0 45.2 84.0#





#11

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

Concen: 1.929 ug/L

RT: 4.07 min Scan# 355

Delta R.T. -0.00 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

Instrument :

MSVOA_W

ClientSampled :

MDL03

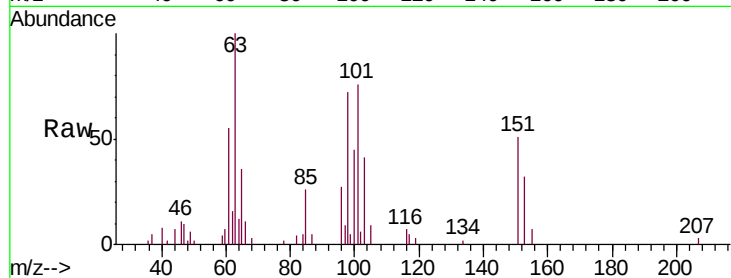
Tgt Ion:101 Resp: 8610

Ion Ratio Lower Upper

101 100

85 41.8 31.8 47.8

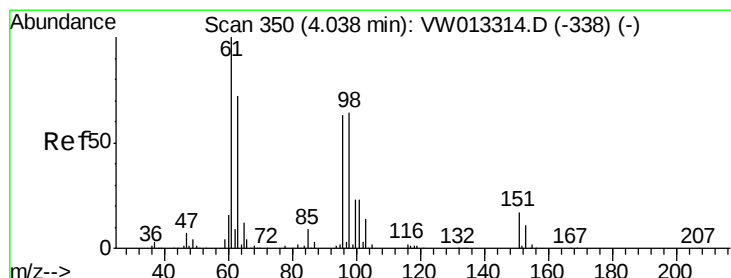
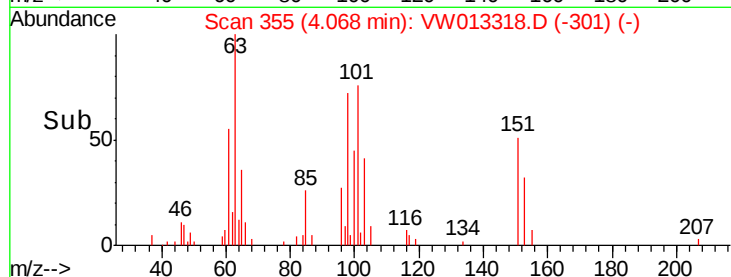
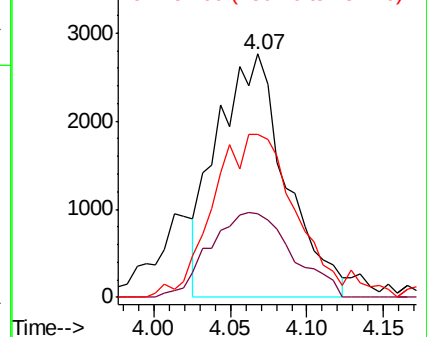
151 48.6 65.4 98.0#



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: 2.082 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.00 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

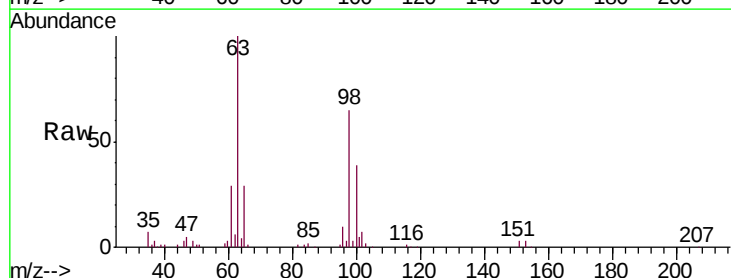
Tgt Ion: 96 Resp: 9430

Ion Ratio Lower Upper

96 100

61 301.1 115.9 215.3#

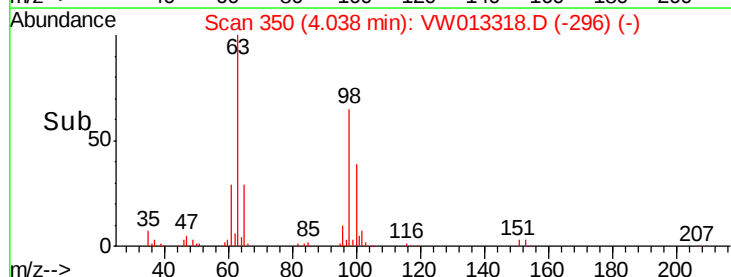
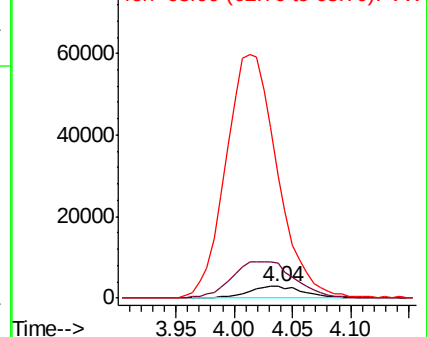
63 1048.9 88.9 165.1#

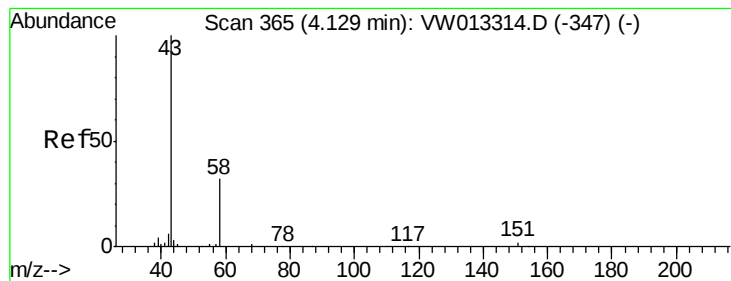


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 5.553 ug/L

RT: 4.14 min Scan# 367

Delta R.T. 0.01 min

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ClientSampleId :

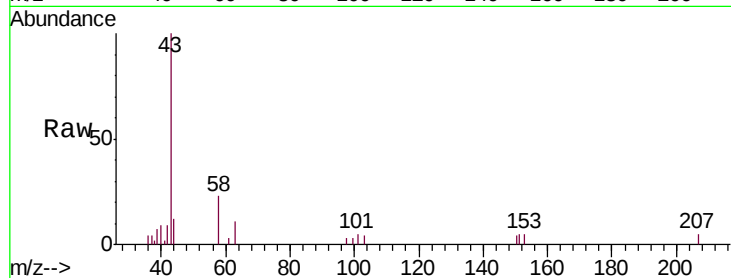
MDL03

Tgt Ion: 43 Resp: 7484

Ion Ratio Lower Upper

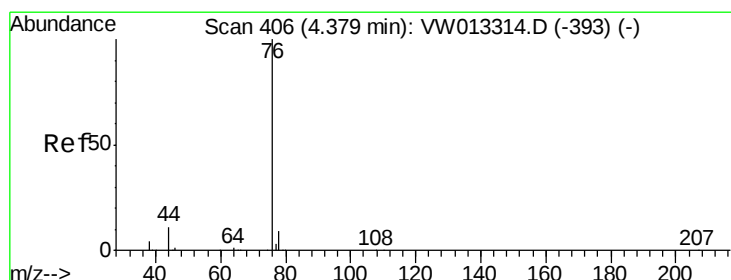
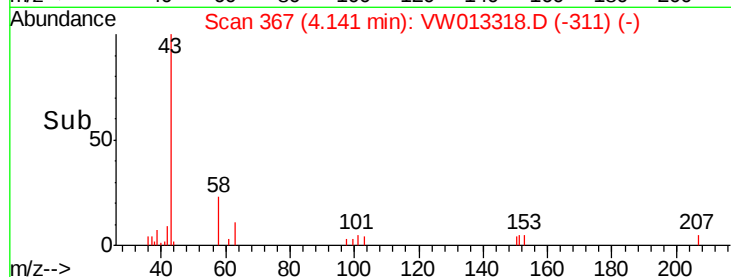
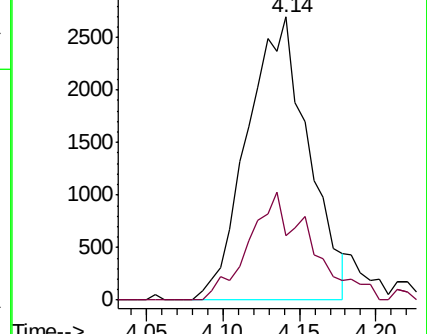
43 100

58 22.6 0.0 63.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 1.769 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW013318.D

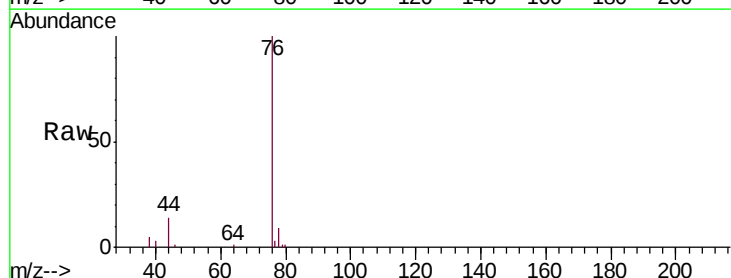
Acq: 27 Sep 2019 12:22

Tgt Ion: 76 Resp: 22743

Ion Ratio Lower Upper

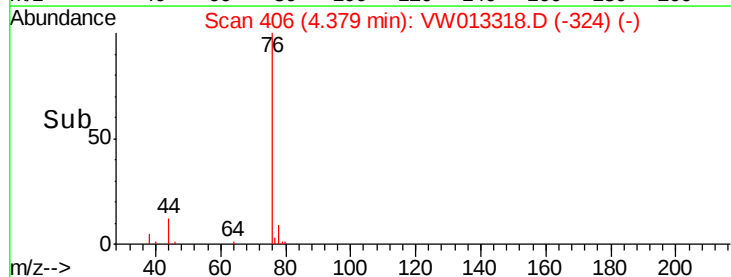
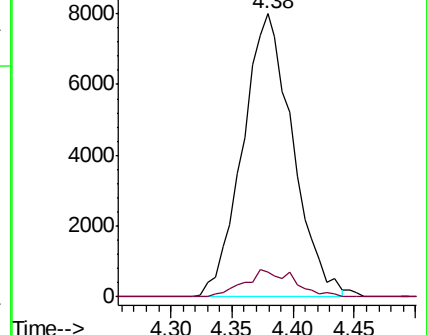
76 100

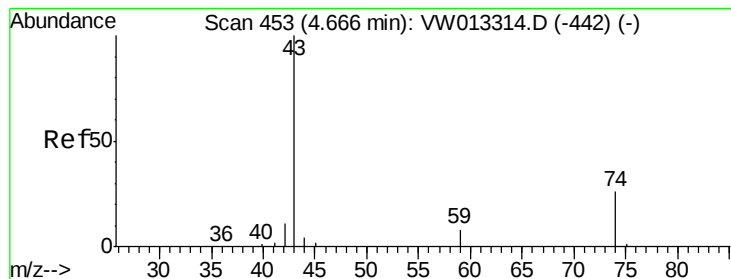
78 8.7 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW





#15

Methyl Acetate

Concen: 1.209 ug/L

RT: 4.67 min Scan# 454

Delta R.T. 0.01 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

Instrument :

MSVOA_W

ClientSampled :

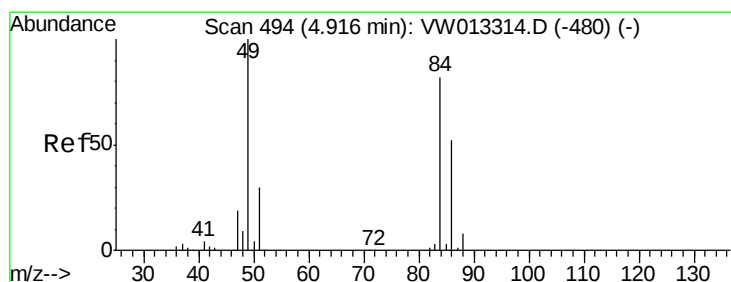
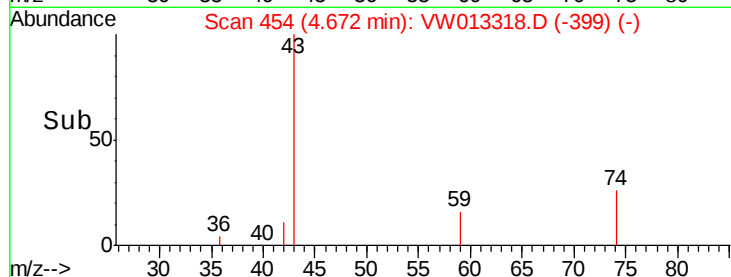
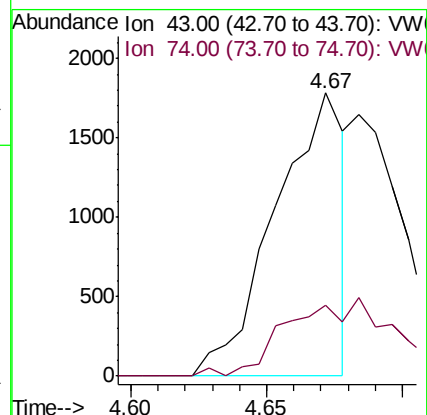
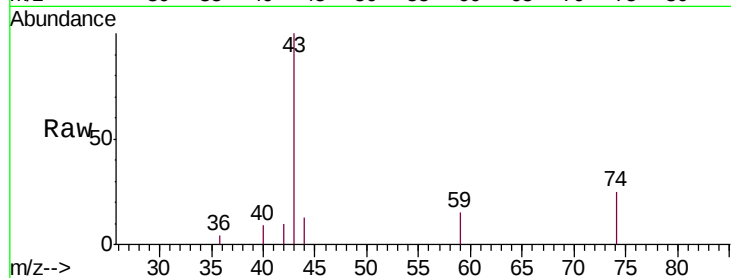
MDL03

Tgt Ion: 43 Resp: 3145

Ion Ratio Lower Upper

43 100

74 22.8 18.7 28.1



#16

Methylene chloride

Concen: 3.649 ug/L

RT: 4.92 min Scan# 495

Delta R.T. 0.01 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

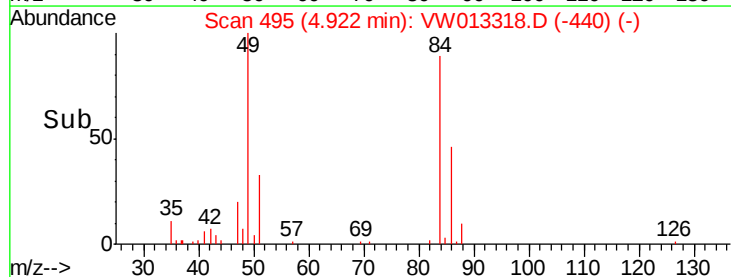
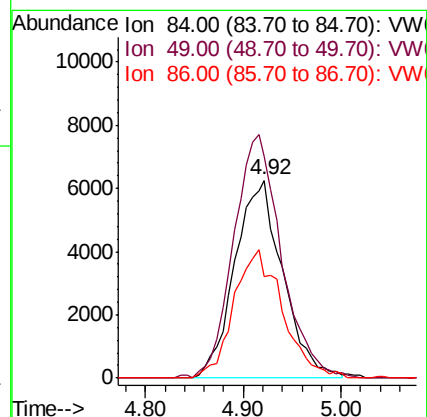
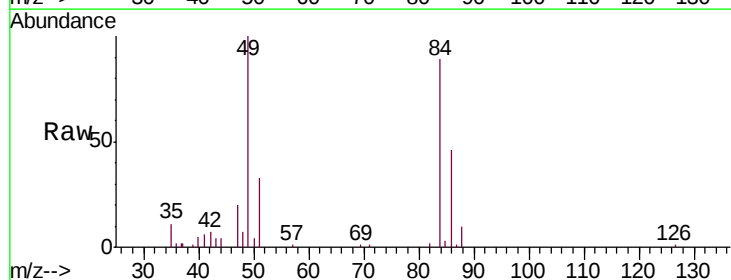
Tgt Ion: 84 Resp: 21420

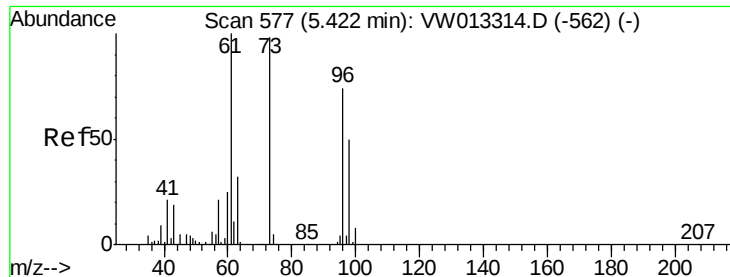
Ion Ratio Lower Upper

84 100

49 112.0 84.8 157.4

86 51.0 44.0 81.6

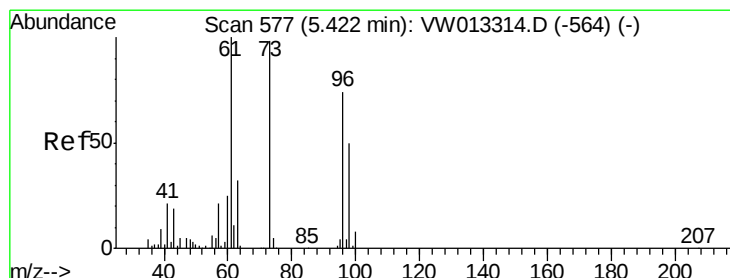
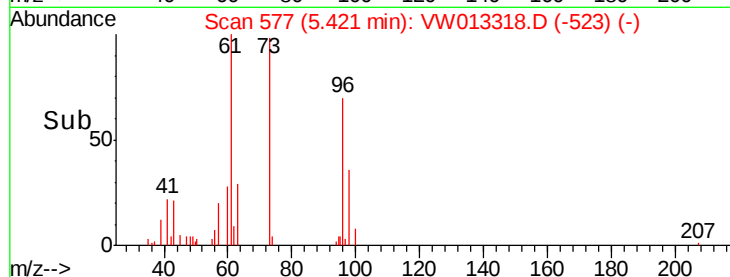
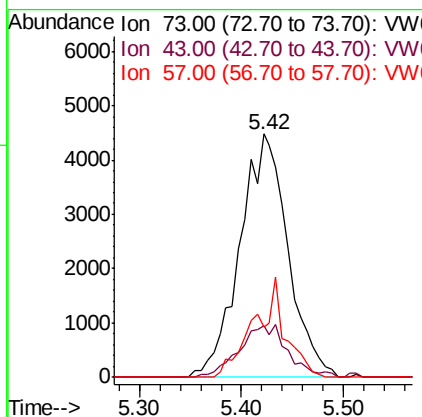
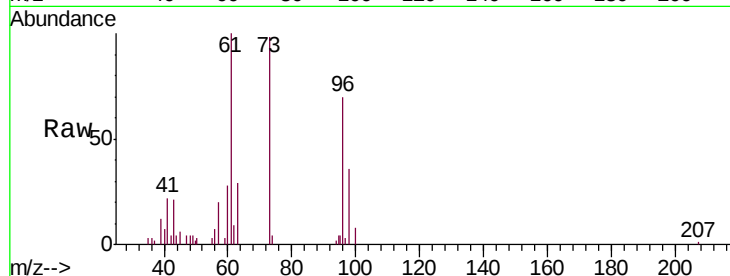




#17
Methyl tert-butyl Ether
Concen: 1.869 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW013318.D
Acq: 27 Sep 2019 12:22

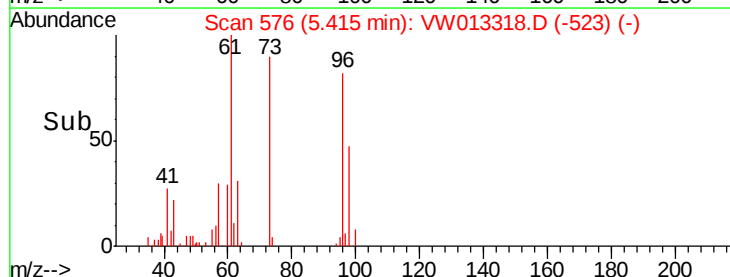
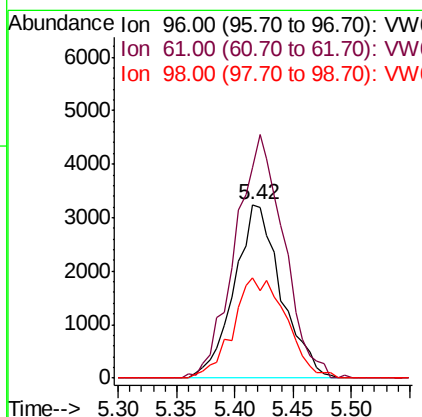
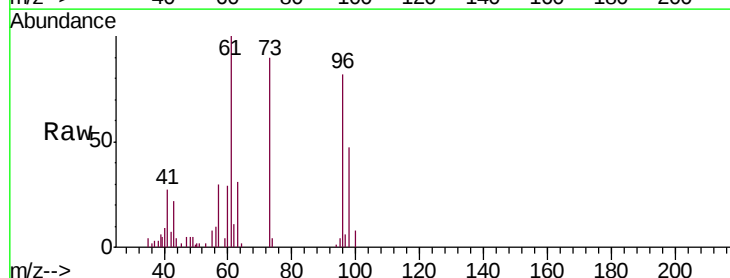
Instrument :
MSVOA_W
ClientSampled :
MDL03

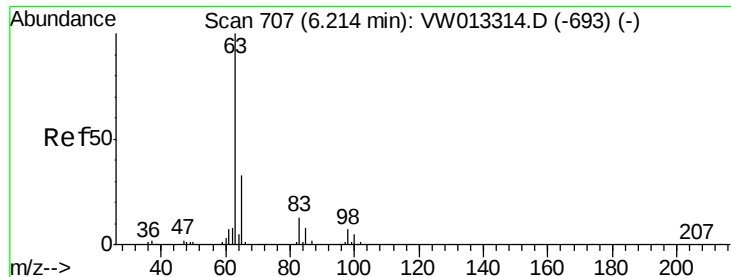
Tgt Ion: 73 Resp: 14641
Ion Ratio Lower Upper
73 100
43 14.1 15.3 22.9#
57 12.8 18.2 27.4#



#18
trans-1,2-Dichloroethene
Concen: 1.871 ug/L
RT: 5.42 min Scan# 576
Delta R.T. -0.01 min
Lab File: VW013318.D
Acq: 27 Sep 2019 12:22

Tgt Ion: 96 Resp: 9062
Ion Ratio Lower Upper
96 100
61 113.0 91.2 169.4
98 53.7 44.7 82.9





#19

1,1-Dichloroethane

Concen: 1.837 ug/L

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

MDL03

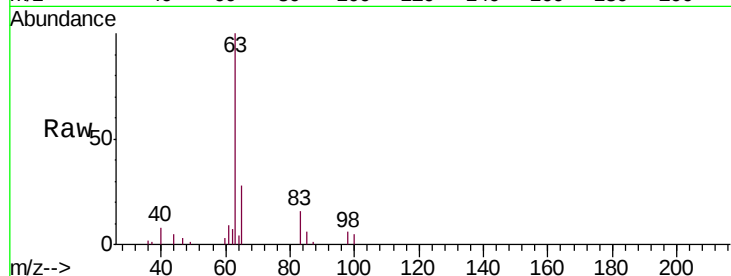
Tgt Ion: 63 Resp: 15604

Ion Ratio Lower Upper

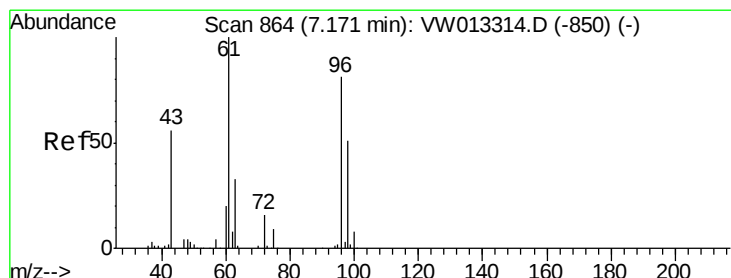
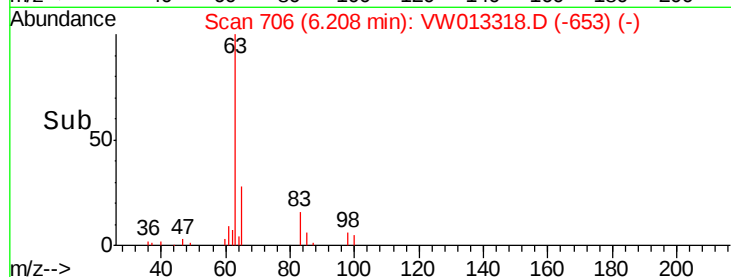
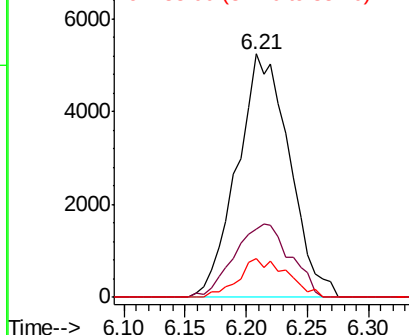
63 100

65 28.3 21.8 40.4

83 15.9 9.3 17.3



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: 6.382 ug/L

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW013318.D

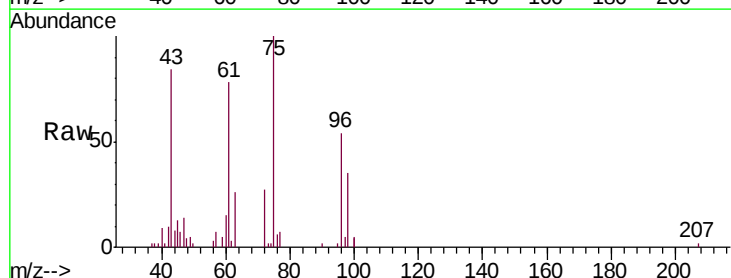
Acq: 27 Sep 2019 12:22

Tgt Ion: 43 Resp: 12388

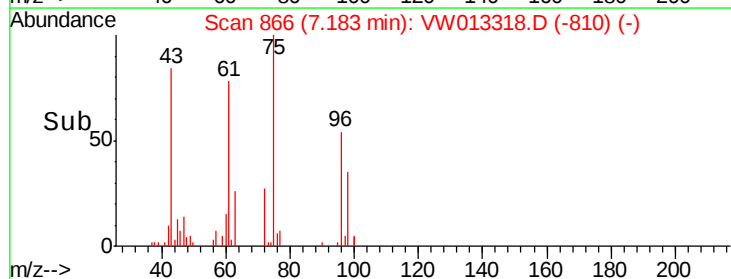
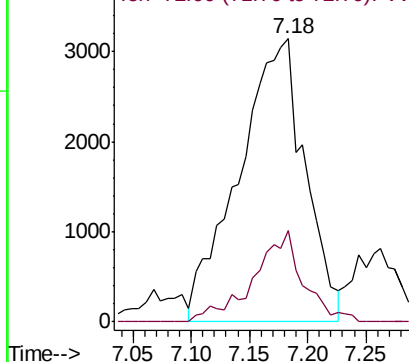
Ion Ratio Lower Upper

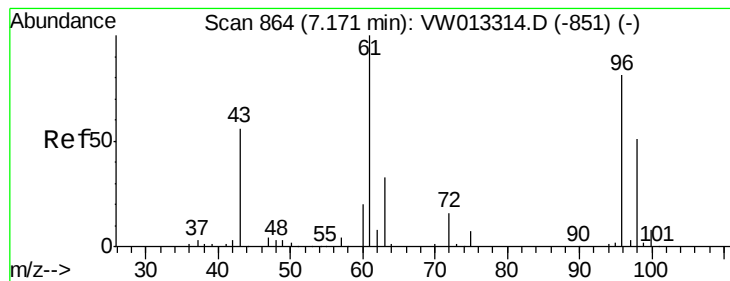
43 100

72 8.6 13.2 39.6#



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



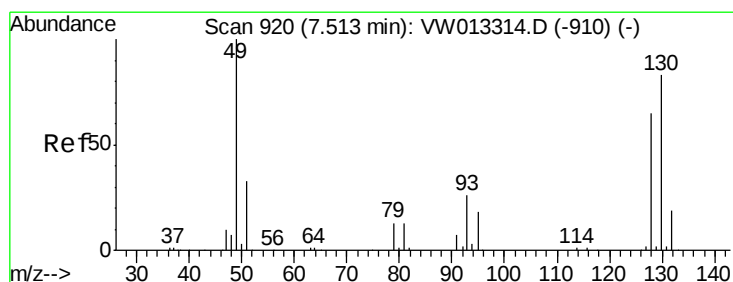
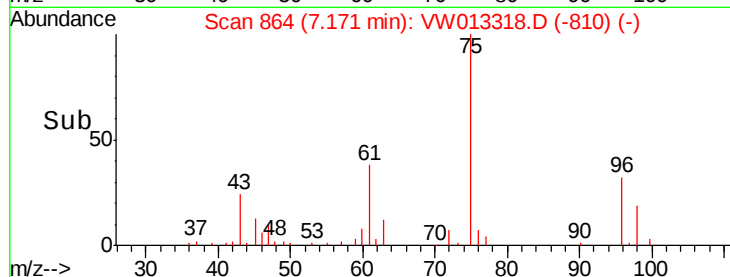
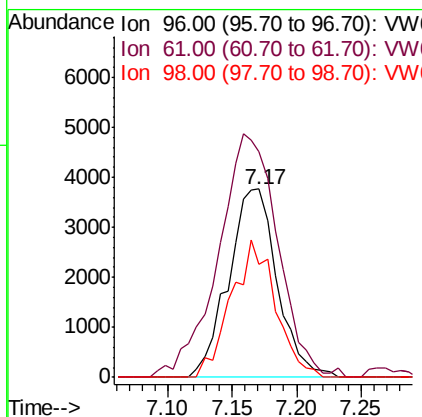
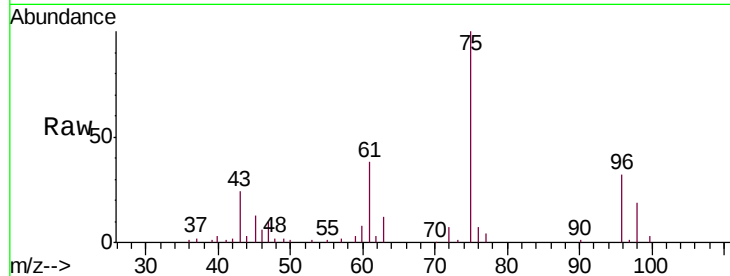


#22

cis-1,2-Dichloroethene
 Concen: 1.880 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. -0.00 min
 Lab File: VW013318.D
 Acq: 27 Sep 2019 12:22

Instrument :
 MSVOA_W
 ClientSampled :
 MDL03

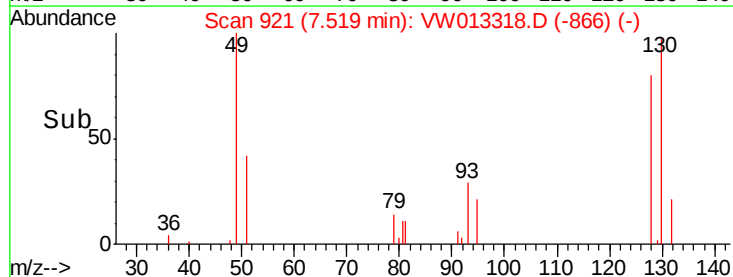
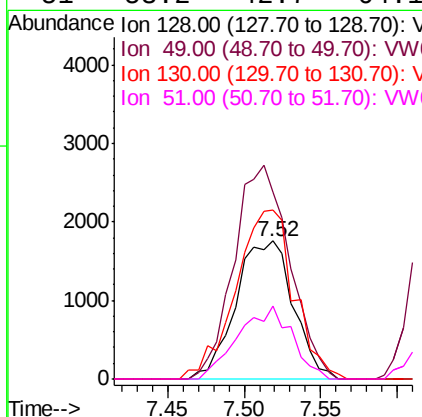
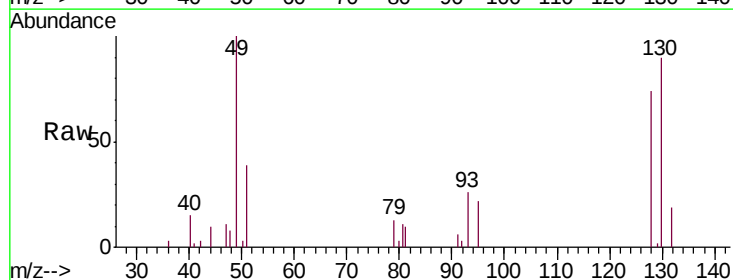
Tgt Ion: 96 Resp: 9919
 Ion Ratio Lower Upper
 96 100
 61 120.3 86.0 159.6
 98 59.9 43.5 80.9

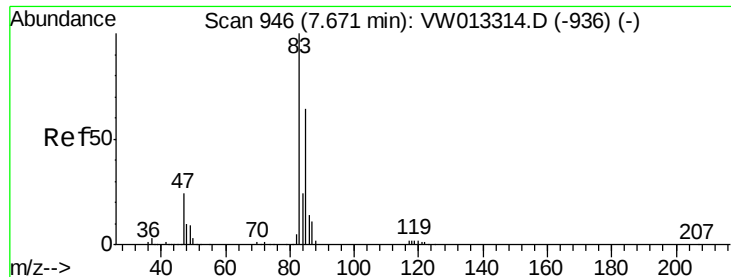


#23

Bromochloromethane
 Concen: 1.930 ug/L
 RT: 7.52 min Scan# 921
 Delta R.T. 0.01 min
 Lab File: VW013318.D
 Acq: 27 Sep 2019 12:22

Tgt Ion: 128 Resp: 4583
 Ion Ratio Lower Upper
 128 100
 49 136.0 114.6 212.8
 130 122.3 92.6 172.0
 51 53.2 42.7 64.1





#25

Chloroform

Concen: 1.994 ug/L

RT: 7.67 min Scan# 946

Delta R.T. -0.00 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

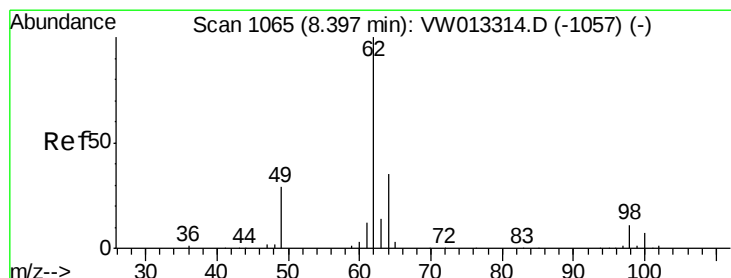
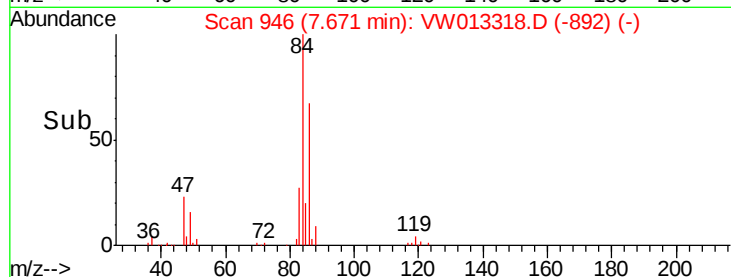
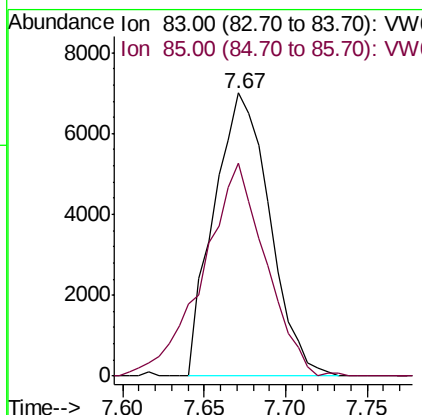
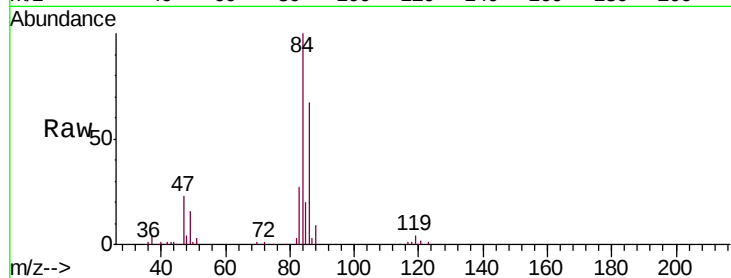
MDL03

Tgt Ion: 83 Resp: 16642

Ion Ratio Lower Upper

83 100

85 84.1 45.9 85.3



#27

1,2-Dichloroethane

Concen: 1.893 ug/L

RT: 8.40 min Scan# 1066

Delta R.T. 0.01 min

Lab File: VW013318.D

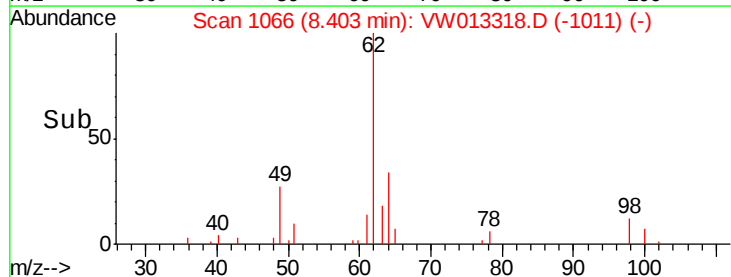
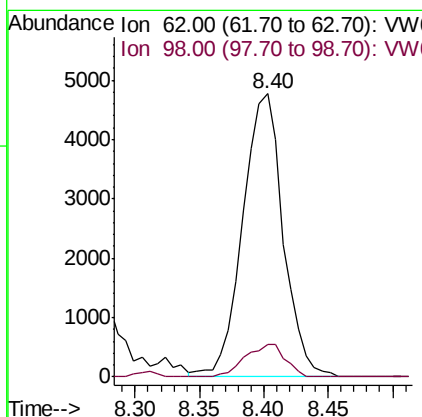
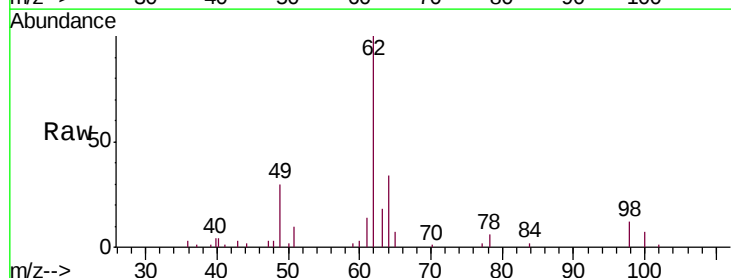
Acq: 27 Sep 2019 12:22

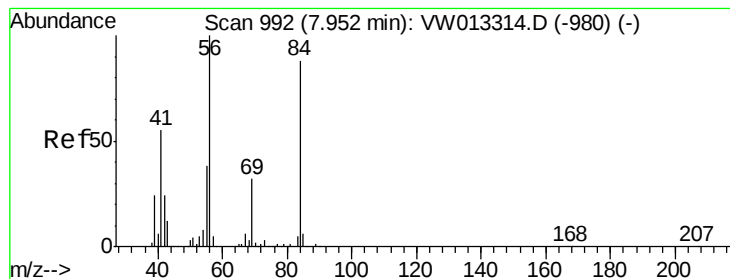
Tgt Ion: 62 Resp: 10351

Ion Ratio Lower Upper

62 100

98 11.7 9.0 13.6





#30

Cyclohexane

Concen: 1.810 ug/L

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

Instrument :

MSVOA_W

ClientSampled :

MDL03

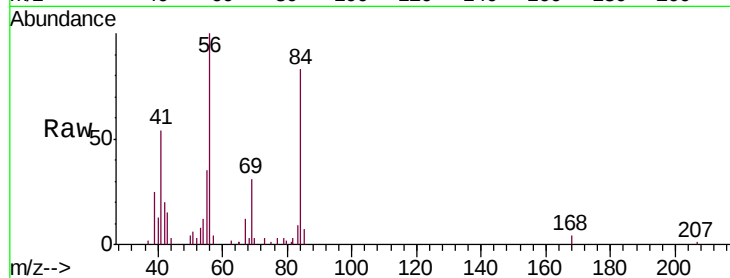
Tgt Ion: 56 Resp: 15013

Ion Ratio Lower Upper

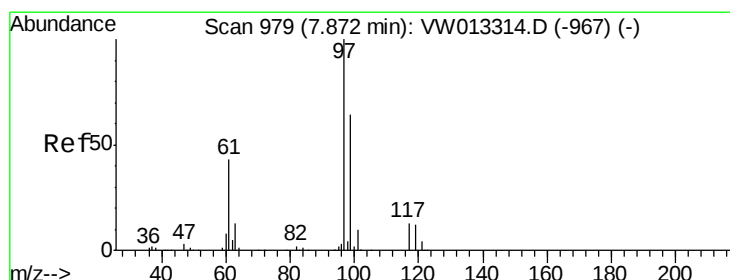
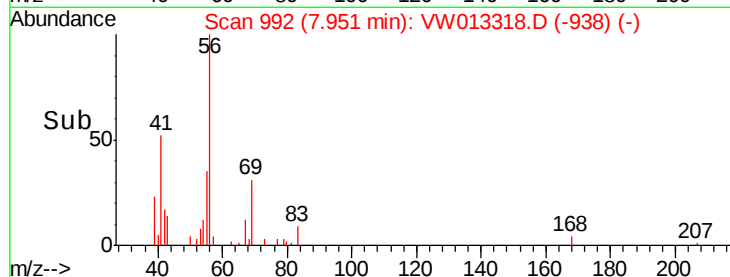
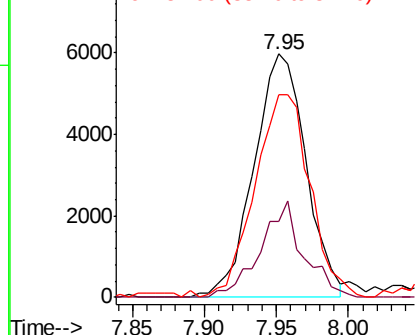
56 100

69 32.7 24.6 37.0

84 88.3 69.5 104.3



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: 1.883 ug/L

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

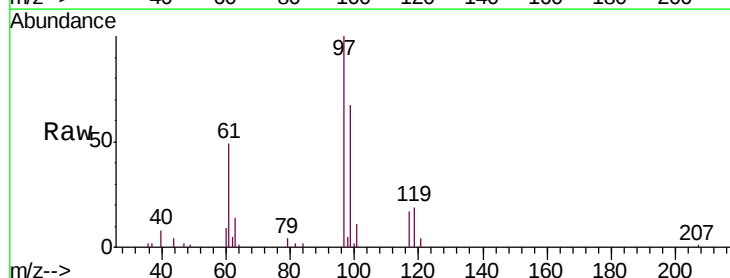
Tgt Ion: 97 Resp: 12481

Ion Ratio Lower Upper

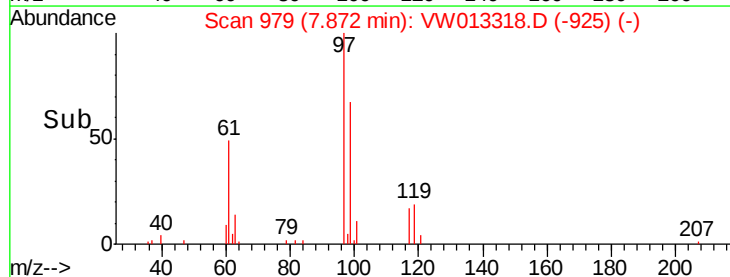
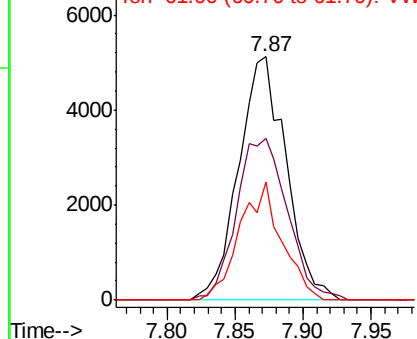
97 100

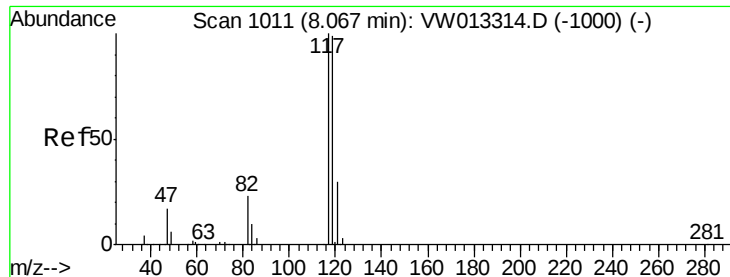
99 71.2 50.6 75.8

61 21.4 34.2 51.2#



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: 1.936 ug/L

RT: 8.07 min Scan# 1012

Delta R.T. 0.01 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

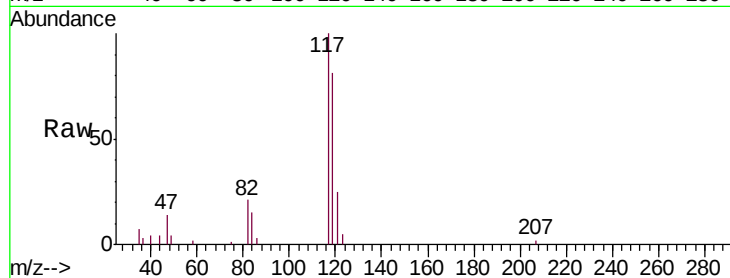
MDL03

Tgt Ion:117 Resp: 12236

Ion Ratio Lower Upper

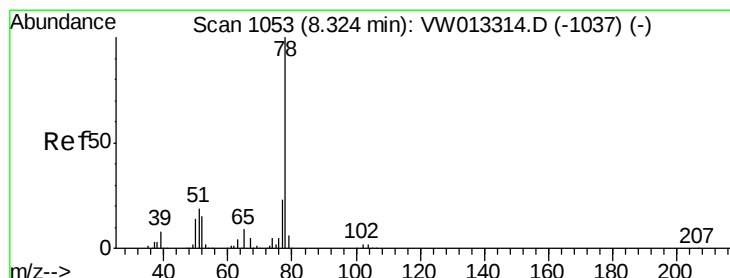
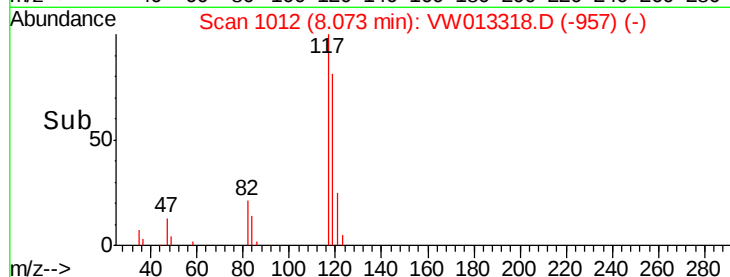
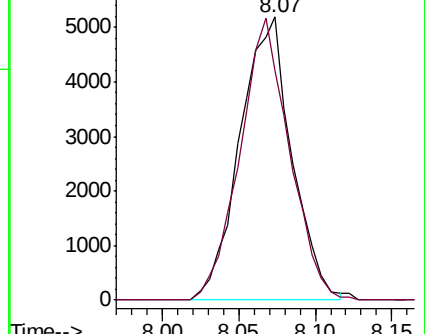
117 100

119 95.1 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: 1.916 ug/L

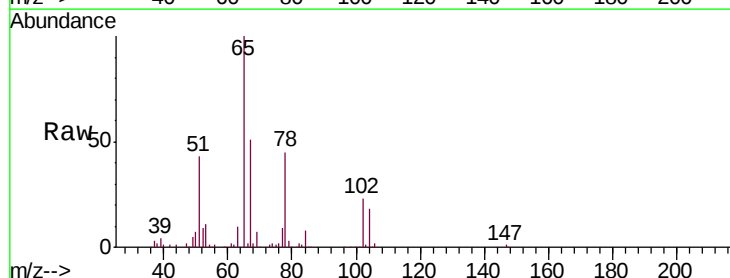
RT: 8.32 min Scan# 1052

Delta R.T. -0.01 min

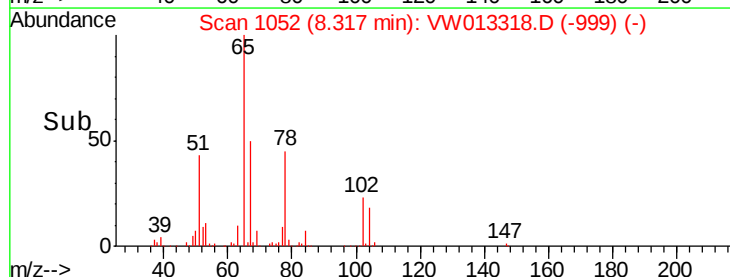
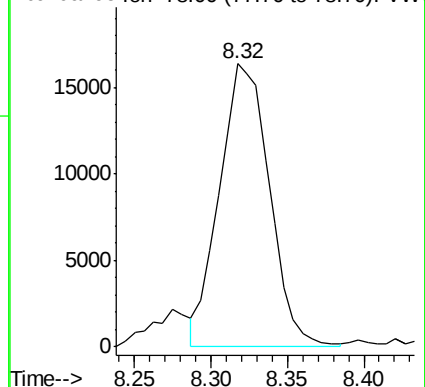
Lab File: VW013318.D

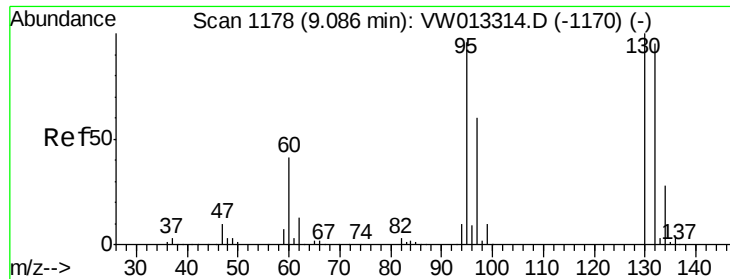
Acq: 27 Sep 2019 12:22

Tgt Ion: 78 Resp: 37097



Abundance Ion 78.00 (77.70 to 78.70): VW





#35

Trichloroethene

Concen: 1.938 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.01 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

MDL03

Tgt Ion: 95 Resp: 9856

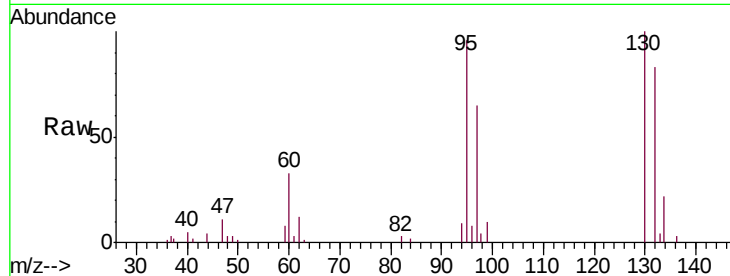
Ion Ratio Lower Upper

95 100

97 64.2 44.3 82.3

132 99.9 71.7 133.3

130 108.9 74.1 137.7



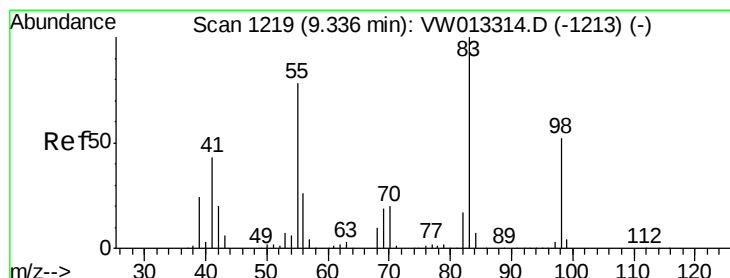
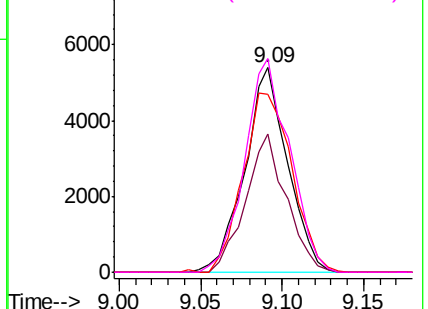
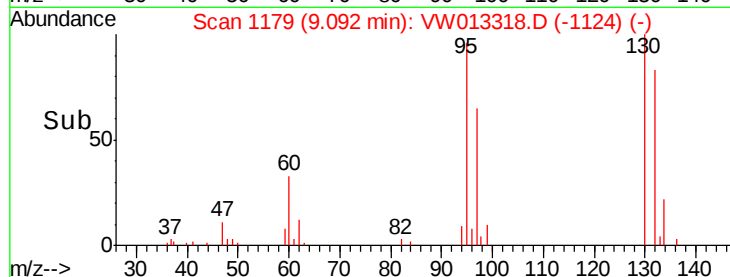
Abundance

Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 1.906 ug/L

RT: 9.34 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

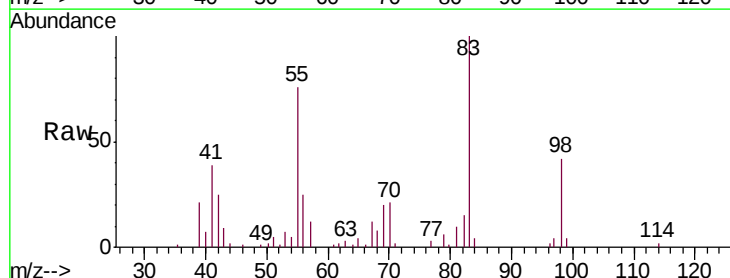
Tgt Ion: 83 Resp: 17270

Ion Ratio Lower Upper

83 100

55 81.3 61.8 92.6

98 50.0 39.6 59.4

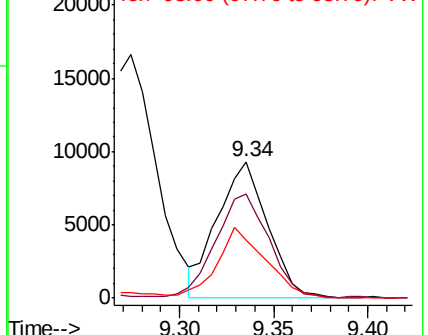
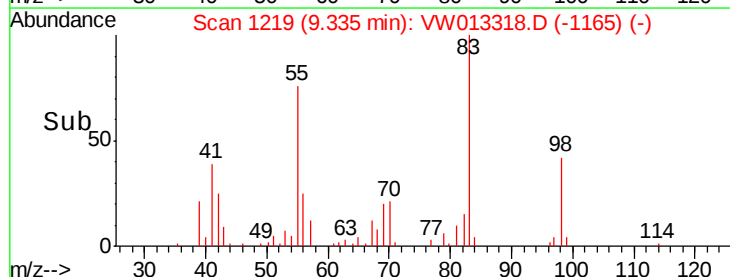


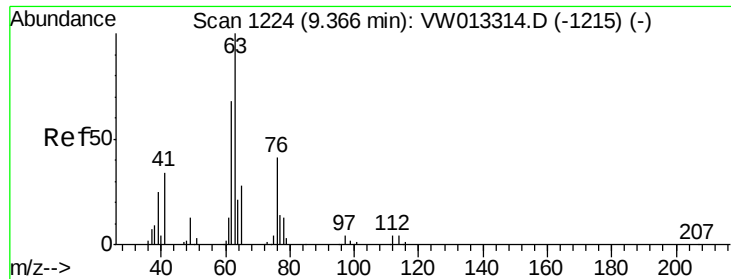
Abundance

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

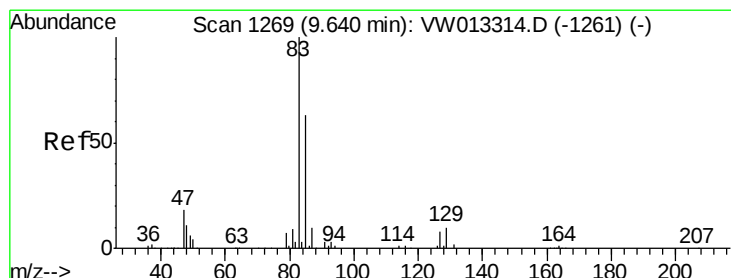
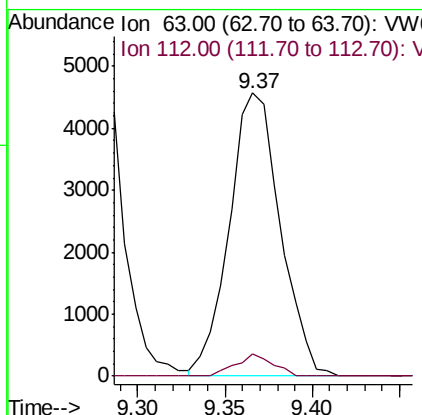
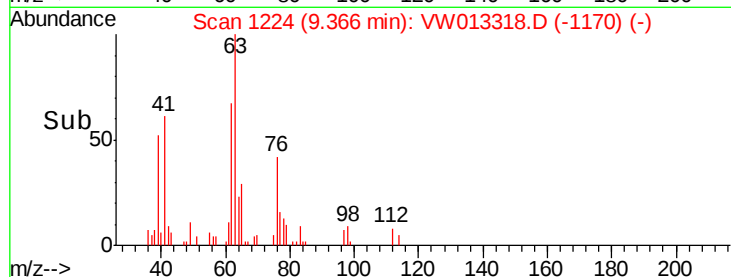
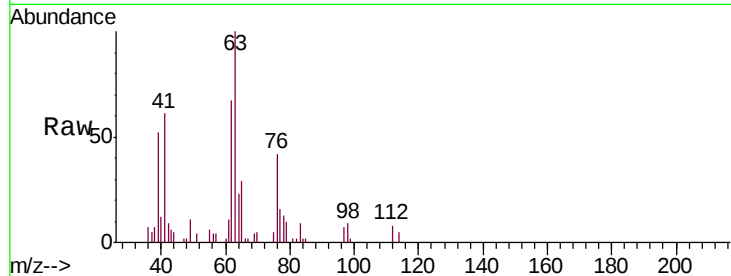




#40
 1,2-Dichloropropane
 Concen: 1.948 ug/L
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW013318.D
 Acq: 27 Sep 2019 12:22

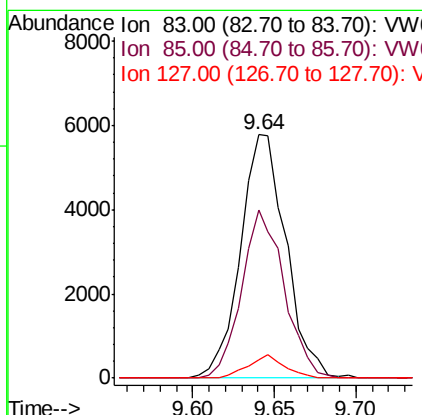
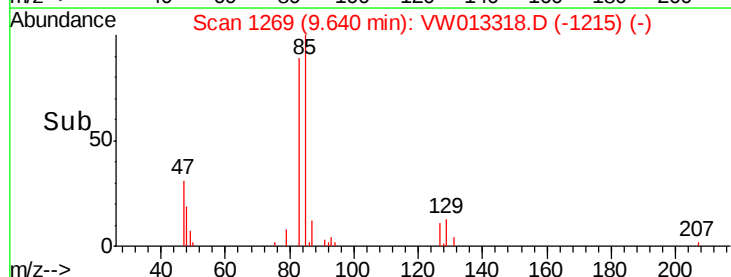
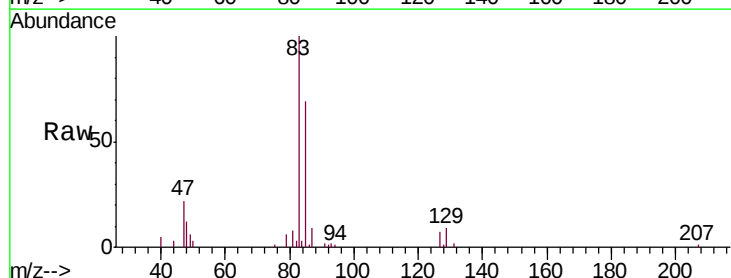
Instrument :
 MSVOA_W
 ClientSampled :
 MDL03

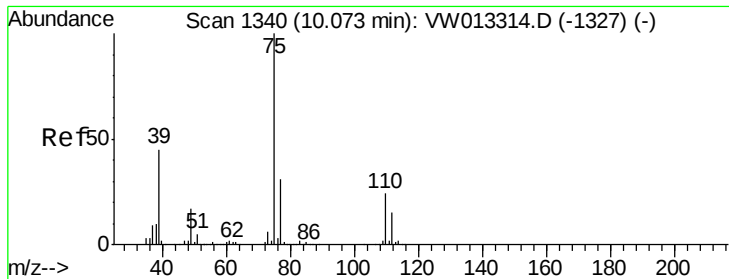
Tgt Ion: 63 Resp: 9280
 Ion Ratio Lower Upper
 63 100
 112 5.5 4.1 6.1



#41
 Bromodichloromethane
 Concen: 1.918 ug/L
 RT: 9.64 min Scan# 1269
 Delta R.T. -0.00 min
 Lab File: VW013318.D
 Acq: 27 Sep 2019 12:22

Tgt Ion: 83 Resp: 11210
 Ion Ratio Lower Upper
 83 100
 85 68.9 43.8 81.4
 127 7.3 7.0 10.6





#42

cis-1,3-Dichloropropene

Concen: 1.761 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

Instrument :

MSVOA_W

ClientSampled :

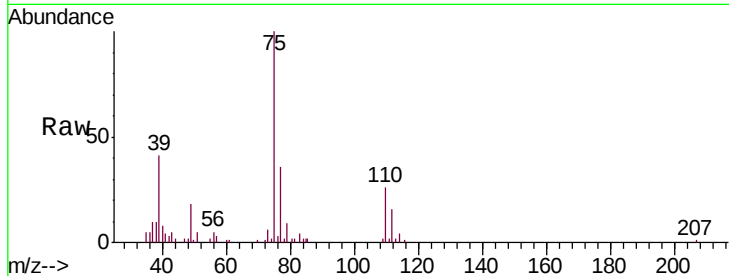
MDL03

Tgt Ion: 75 Resp: 13400

Ion Ratio Lower Upper

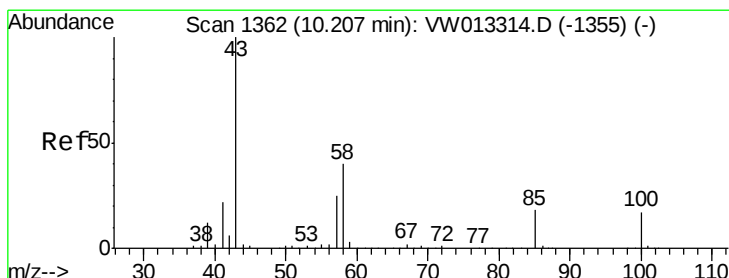
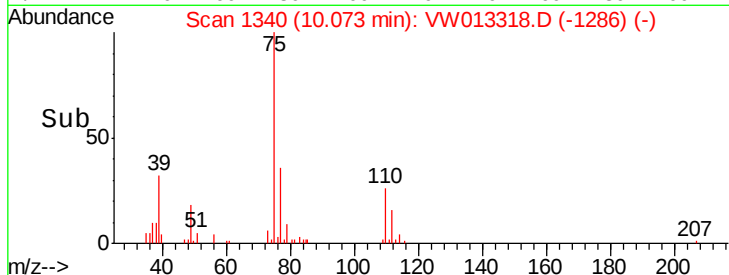
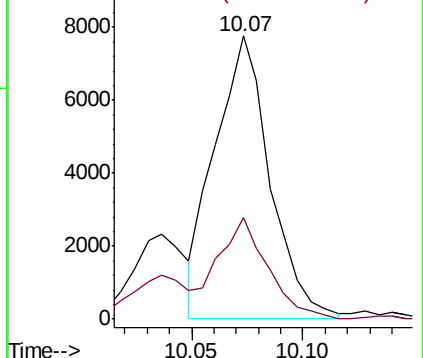
75 100

77 35.9 21.3 39.5



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: 4.660 ug/L

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

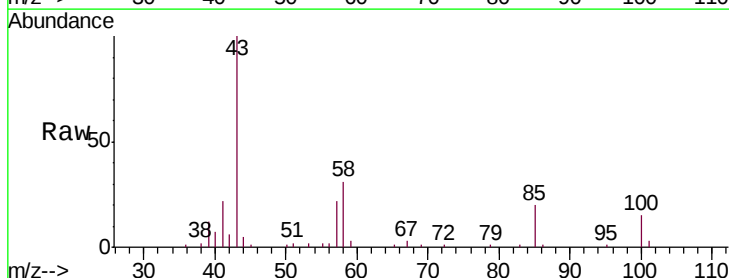
Tgt Ion: 43 Resp: 16994

Ion Ratio Lower Upper

43 100

58 38.3 32.7 49.1

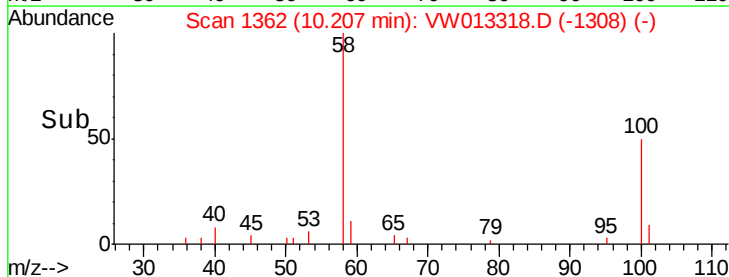
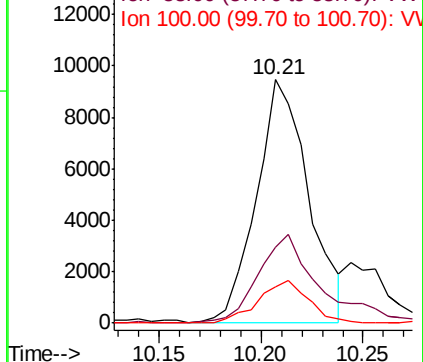
100 16.7 12.9 19.3

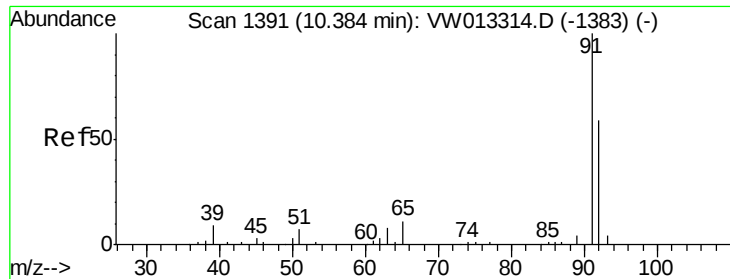


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 100.00 (99.70 to 100.70): VW





#44

Toluene

Concen: 1.969 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

Instrument :

MSVOA_W

ClientSampled :

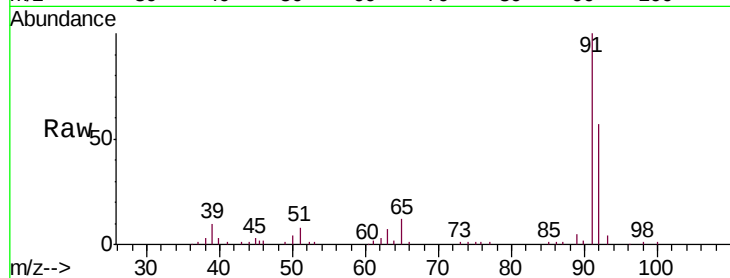
MDL03

Tgt Ion: 91 Resp: 41506

Ion Ratio Lower Upper

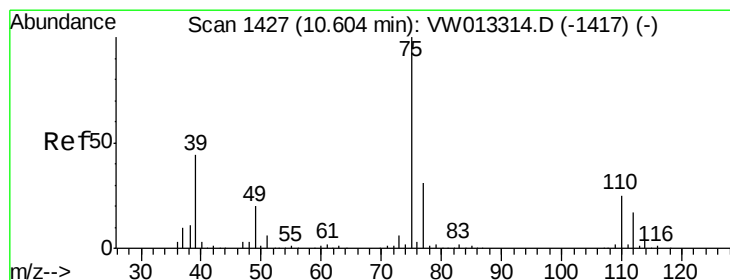
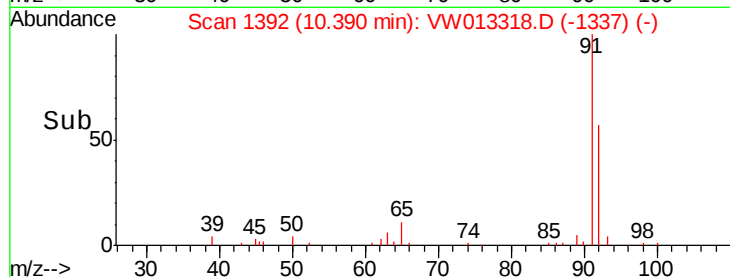
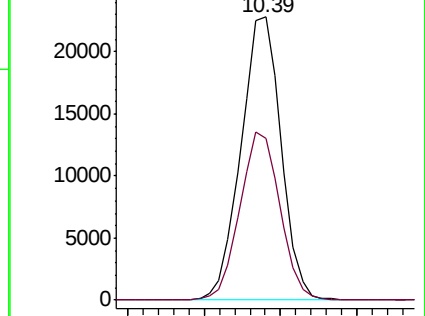
91 100

92 57.0 41.5 77.1



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW



#45

trans-1,3-Dichloropropene

Concen: 2.122 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW013318.D

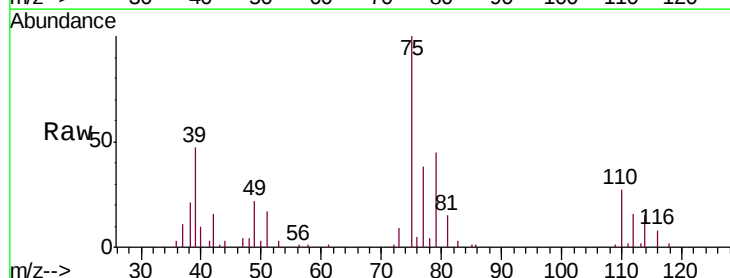
Acq: 27 Sep 2019 12:22

Tgt Ion: 75 Resp: 12975

Ion Ratio Lower Upper

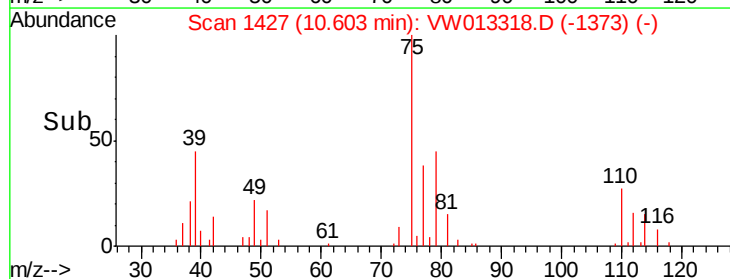
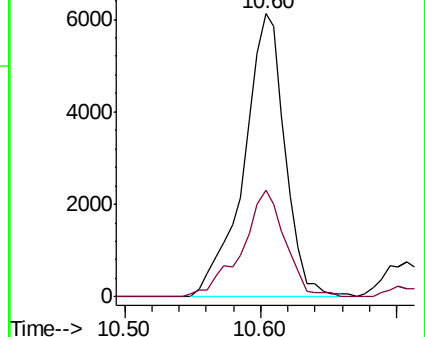
75 100

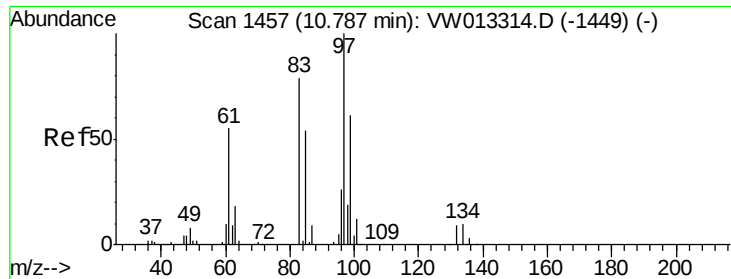
77 37.9 20.5 38.1



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

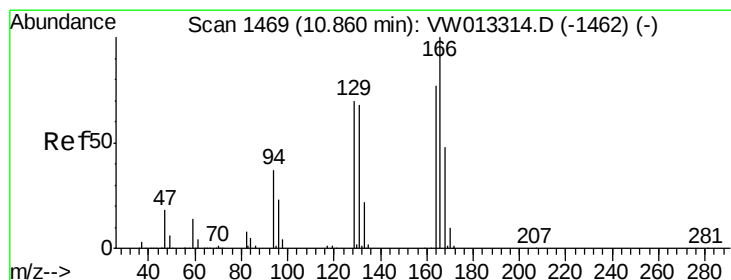
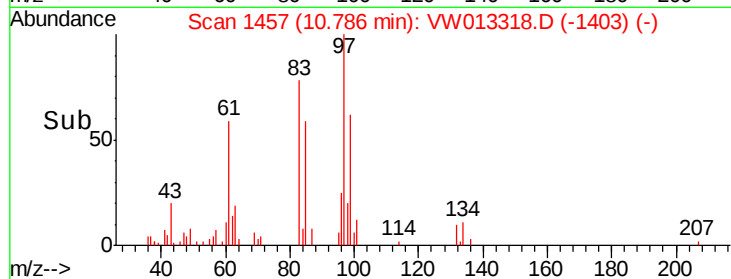
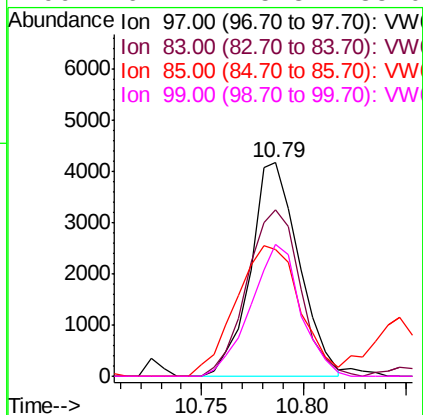
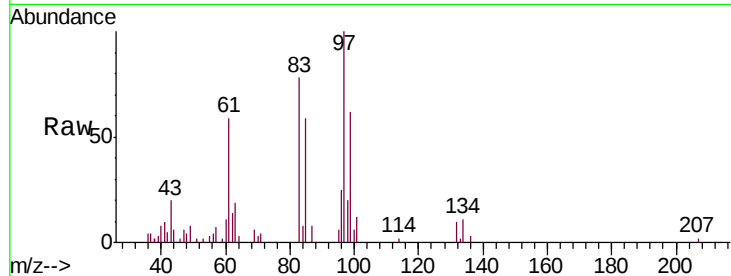




#46
 1,1,2-Trichloroethane
 Concen: 1.852 ug/L
 RT: 10.79 min Scan# 1457
 Delta R.T. -0.00 min
 Lab File: VW013318.D
 Acq: 27 Sep 2019 12:22

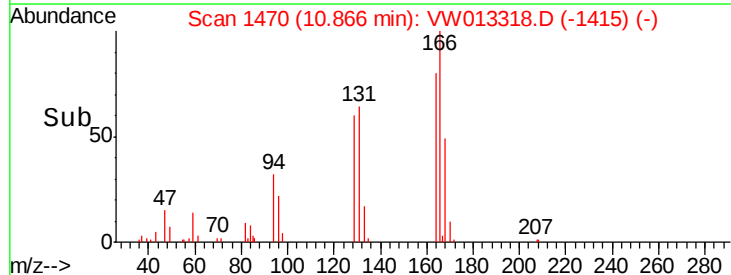
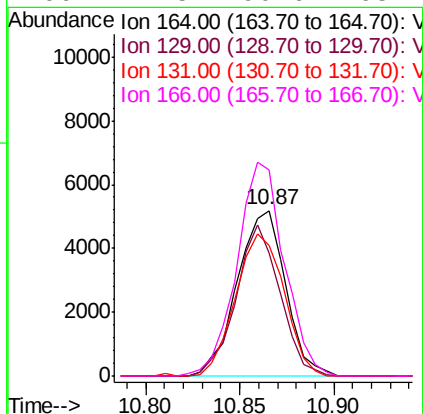
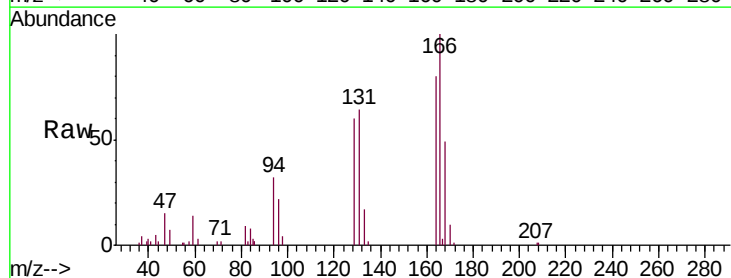
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL03

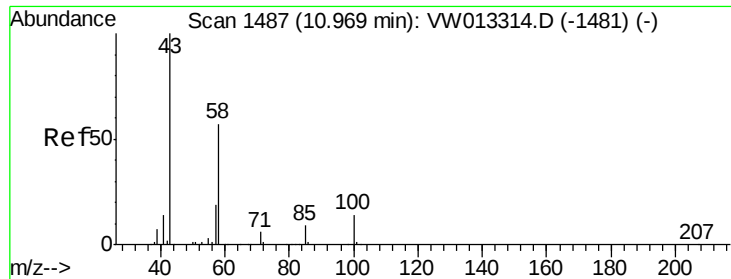
Tgt Ion:	97	Resp:	6912
Ion	Ratio	Lower	Upper
97	100		
83	77.8	59.4	110.2
85	59.2	38.7	71.9
99	61.7	45.8	85.0



#47
 Tetrachloroethene
 Concen: 2.012 ug/L
 RT: 10.87 min Scan# 1470
 Delta R.T. 0.01 min
 Lab File: VW013318.D
 Acq: 27 Sep 2019 12:22

Tgt Ion:	164	Resp:	9210
Ion	Ratio	Lower	Upper
164	100		
129	74.5	60.5	112.5
131	79.3	60.6	112.6
166	124.5	90.6	168.2

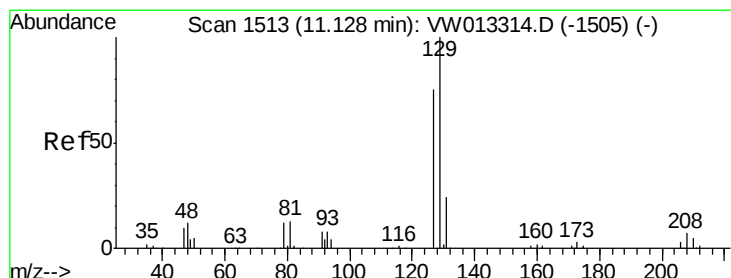
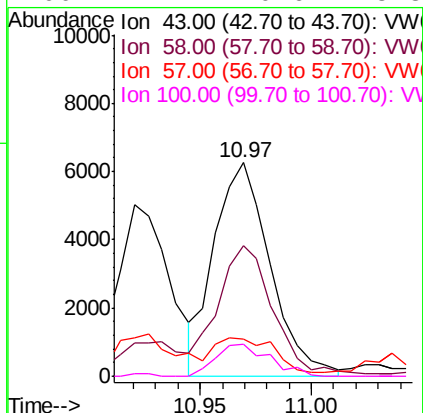
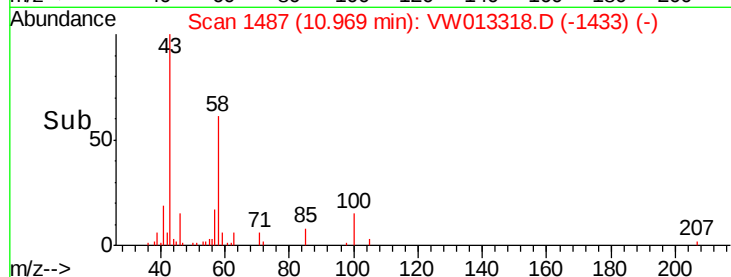
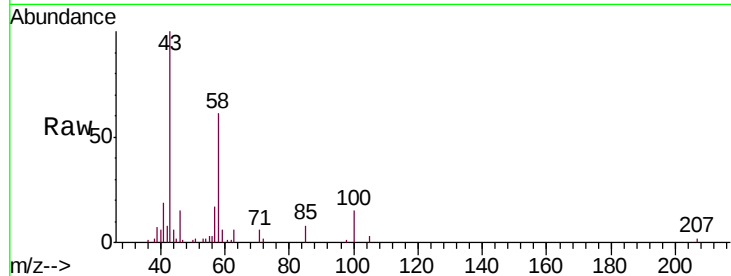




#49
2-Hexanone
Concen: 4.175 ug/L
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW013318.D
Acq: 27 Sep 2019 12:22

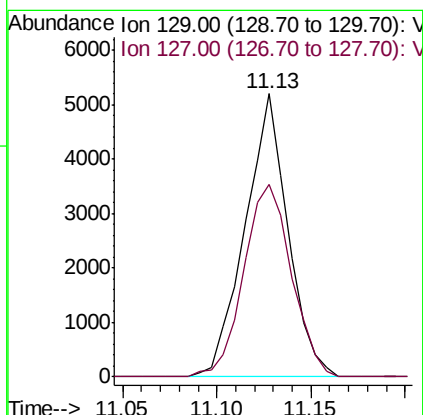
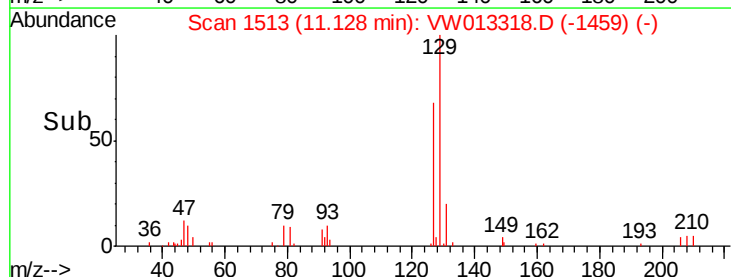
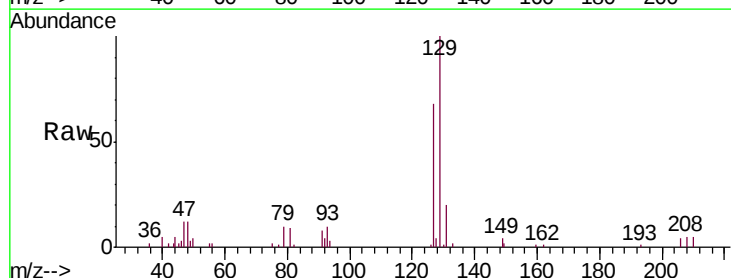
Instrument :
MSVOA_W
ClientSampleId :
MDL03

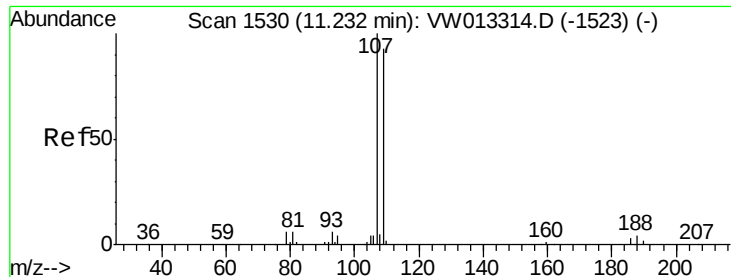
Tgt Ion: 43 Resp: 10942
Ion Ratio Lower Upper
43 100
58 55.0 44.3 66.5
57 19.8 15.3 22.9
100 14.4 10.6 15.8



#50
Dibromochloromethane
Concen: 1.913 ug/L
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW013318.D
Acq: 27 Sep 2019 12:22

Tgt Ion: 129 Resp: 8190
Ion Ratio Lower Upper
129 100
127 72.1 56.1 104.1





#51

1,2-Dibromoethane

Concen: 2.023 ug/L

RT: 11.24 min Scan# 1531

Delta R.T. 0.01 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

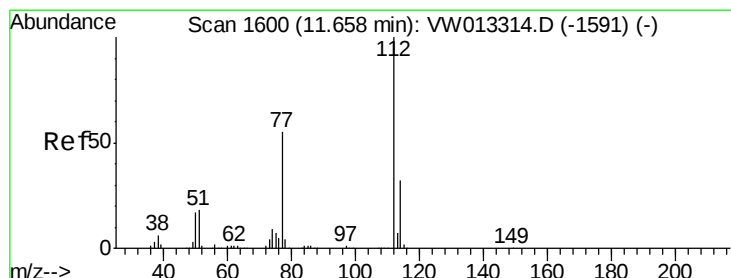
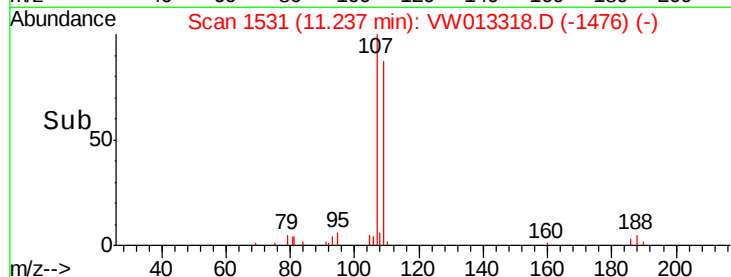
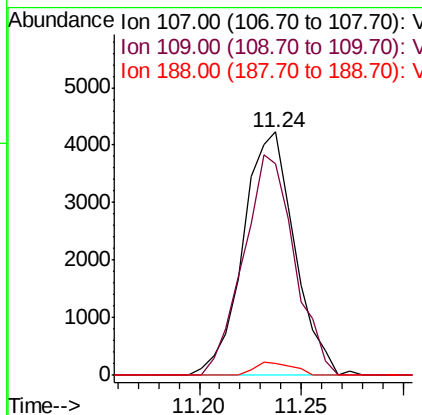
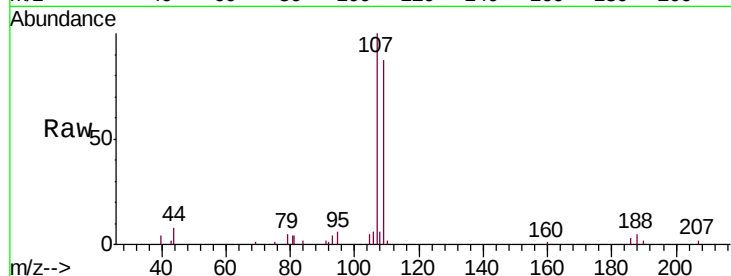
Instrument :

MSVOA_W

ClientSampled :

MDL03

Tgt Ion:	107	Resp:	7417
Ion	Ratio	Lower	Upper
107	100		
109	86.9	65.5	121.6
188	4.8	3.0	4.6#



#52

Chlorobenzene

Concen: 1.897 ug/L

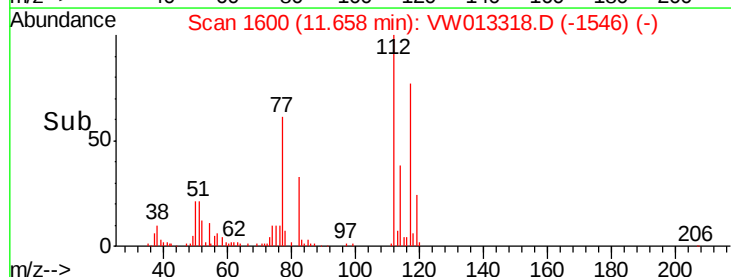
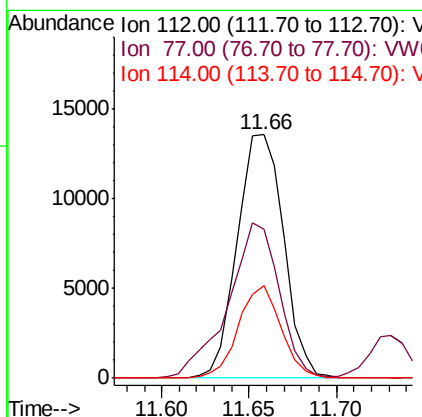
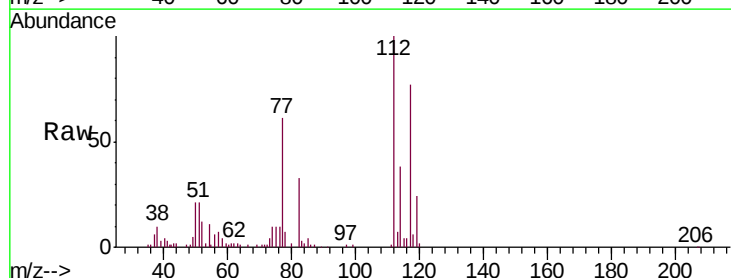
RT: 11.66 min Scan# 1600

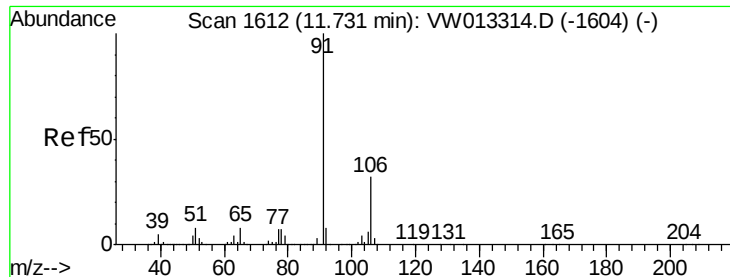
Delta R.T. -0.00 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

Tgt Ion:	112	Resp:	25193
Ion	Ratio	Lower	Upper
112	100		
77	61.3	46.5	69.7
114	37.8	23.0	42.8

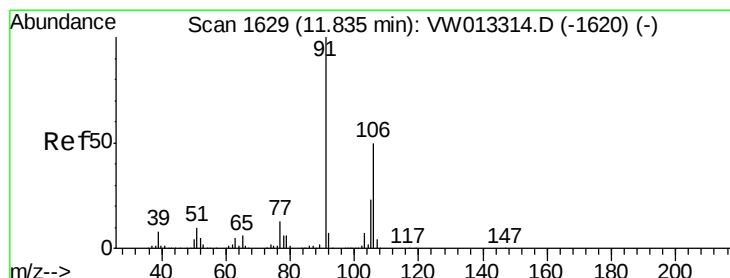
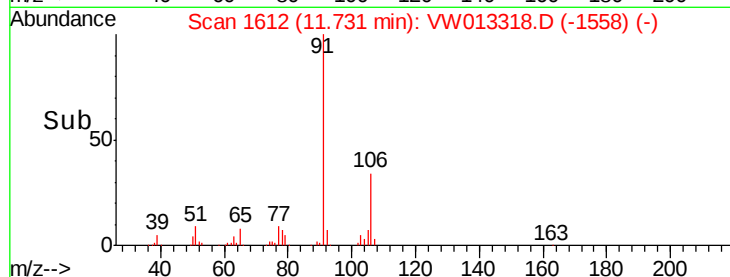
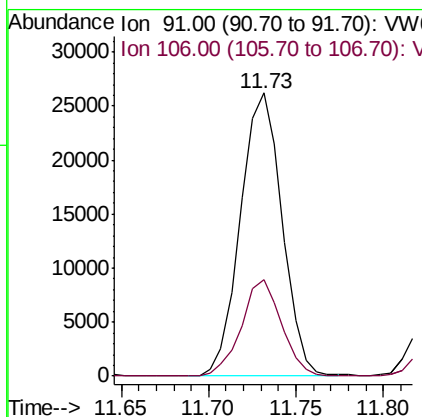
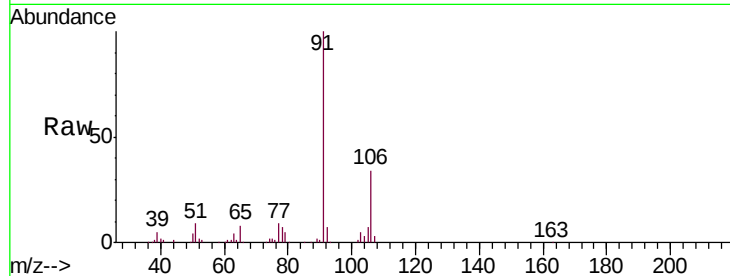




#53
Ethylbenzene
Concen: 1.856 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW013318.D
Acq: 27 Sep 2019 12:22

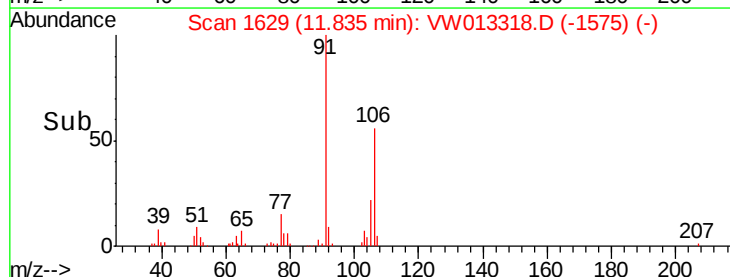
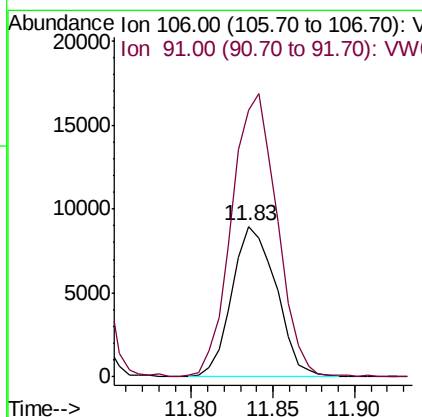
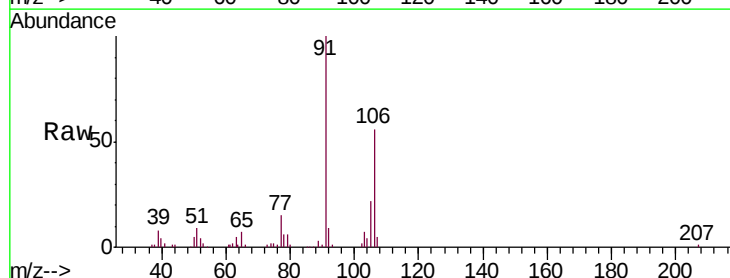
Instrument :
MSVOA_W
ClientSampleId :
MDL03

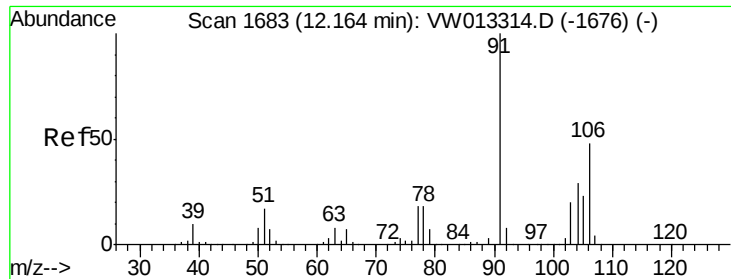
Tgt Ion: 91 Resp: 43362
Ion Ratio Lower Upper
91 100
106 33.9 20.8 38.6



#54
m,p-Xylene
Concen: 1.896 ug/L
RT: 11.83 min Scan# 1629
Delta R.T. -0.00 min
Lab File: VW013318.D
Acq: 27 Sep 2019 12:22

Tgt Ion: 106 Resp: 17011
Ion Ratio Lower Upper
106 100
91 177.2 138.3 256.9





#55

o-xylene

Concen: 1.769 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

Instrument :

MSVOA_W

ClientSampled :

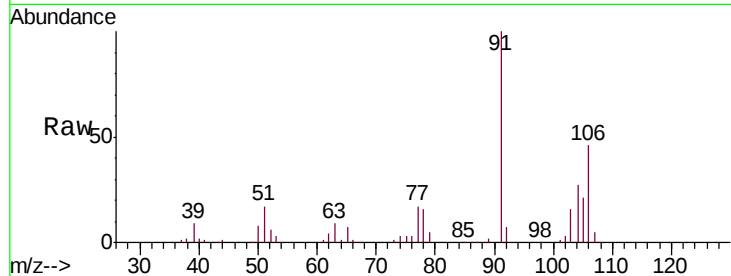
MDL03

Tgt Ion:106 Resp: 14976

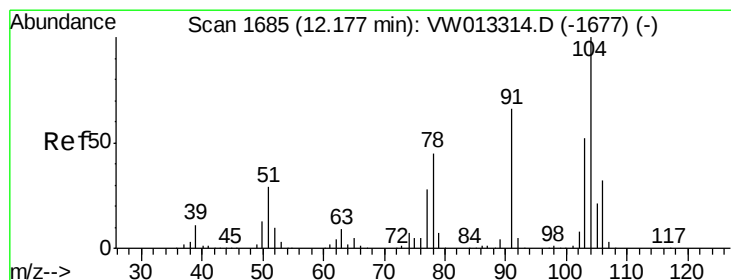
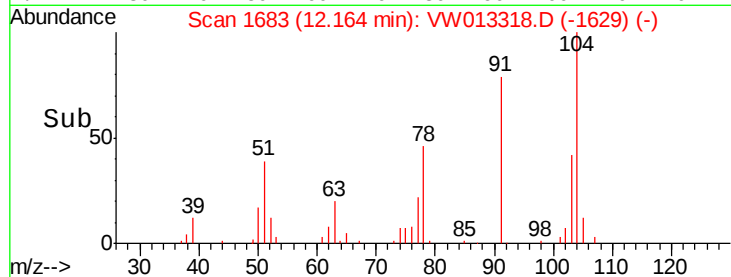
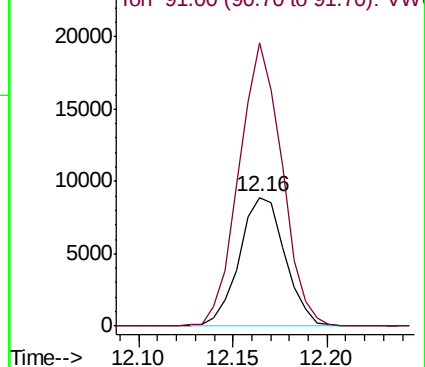
Ion Ratio Lower Upper

106 100

91 219.7 145.9 271.1



Abundance Ion 106.00 (105.70 to 106.70): V



#56

Styrene

Concen: 1.717 ug/L

RT: 12.18 min Scan# 1686

Delta R.T. 0.01 min

Lab File: VW013318.D

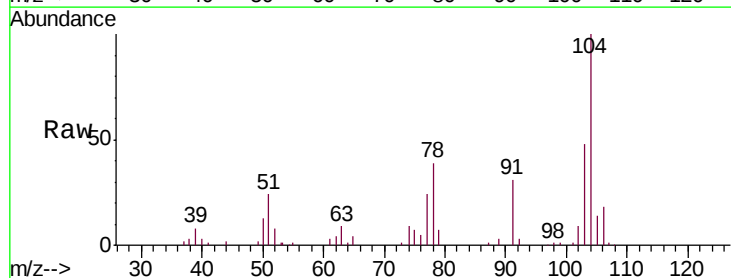
Acq: 27 Sep 2019 12:22

Tgt Ion:104 Resp: 24920

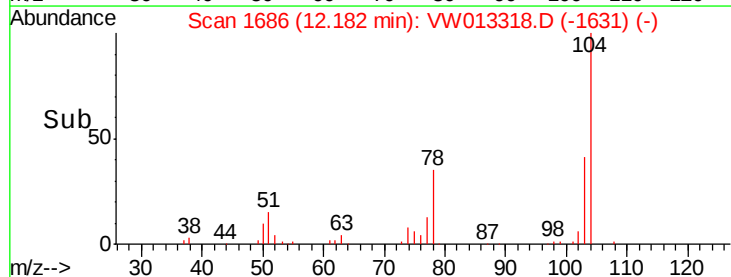
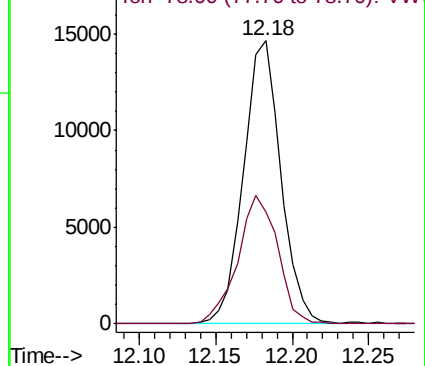
Ion Ratio Lower Upper

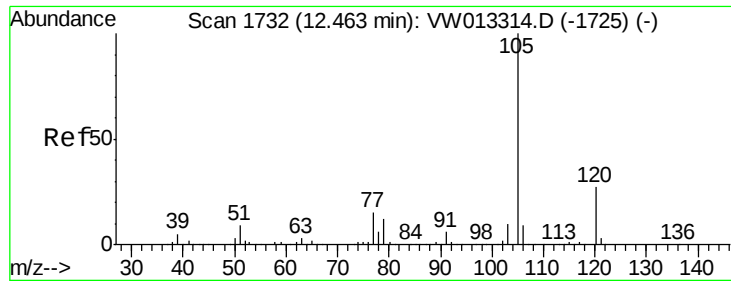
104 100

78 39.5 29.8 55.4



Abundance Ion 104.00 (103.70 to 104.70): V





#57

Isopropylbenzene

Concen: 1.793 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

MDL03

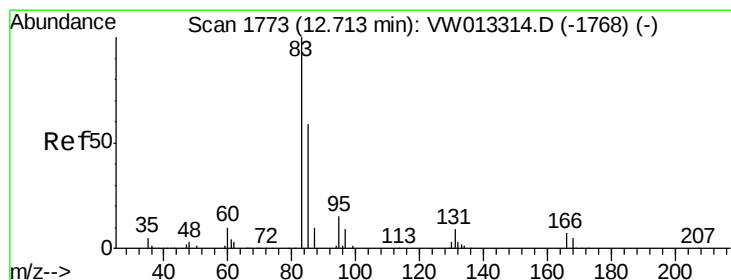
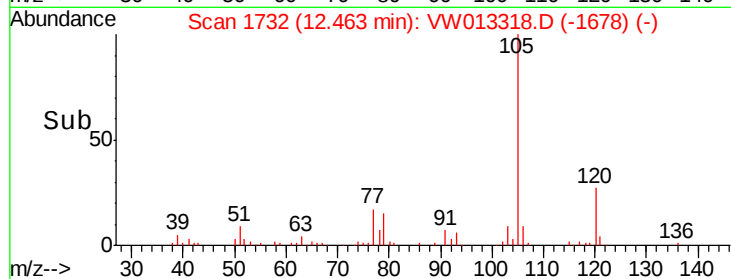
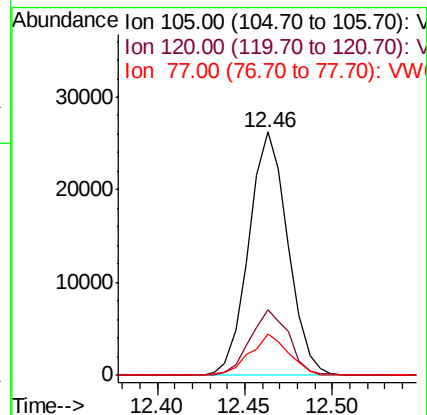
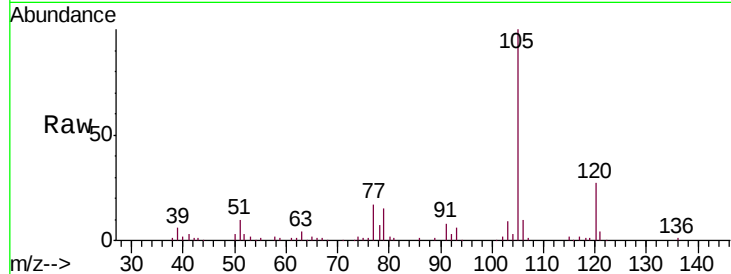
Tgt Ion: 105 Resp: 41044

Ion Ratio Lower Upper

105 100

120 26.8 21.4 32.2

77 16.8 11.8 17.6



#58

1,1,2,2-Tetrachloroethane

Concen: 1.931 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

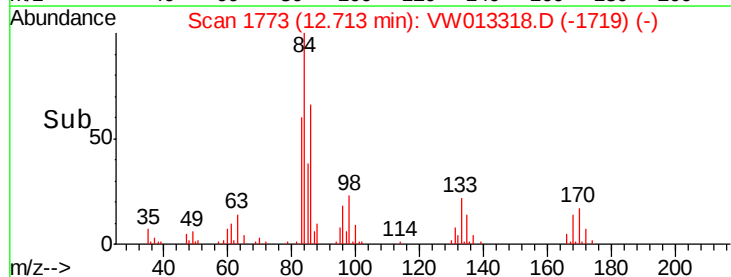
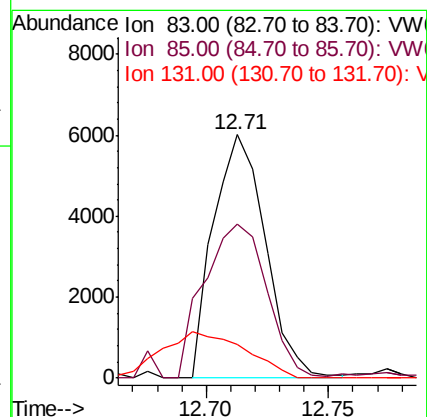
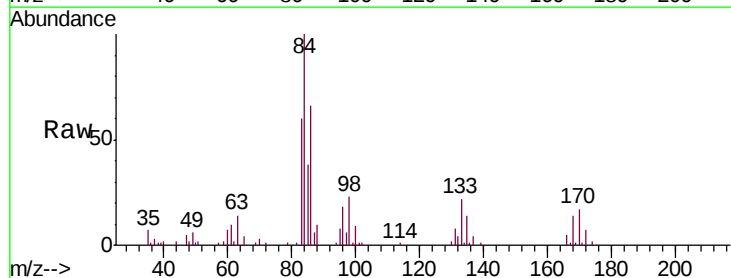
Tgt Ion: 83 Resp: 8879

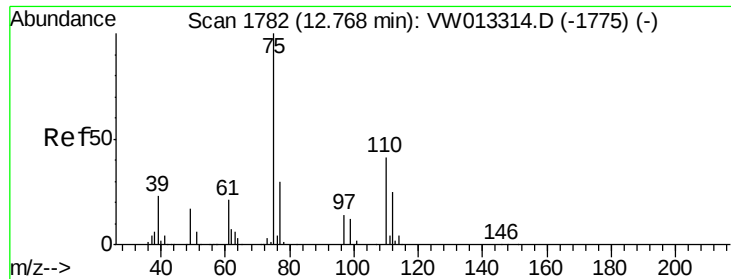
Ion Ratio Lower Upper

83 100

85 63.2 45.2 84.0

131 19.8 8.9 13.3#





#59

1,2,3-Trichloropropane

Concen: 2.166 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

Instrument :

MSVOA_W

ClientSampled :

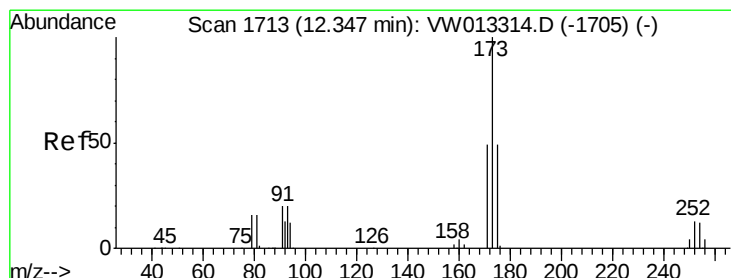
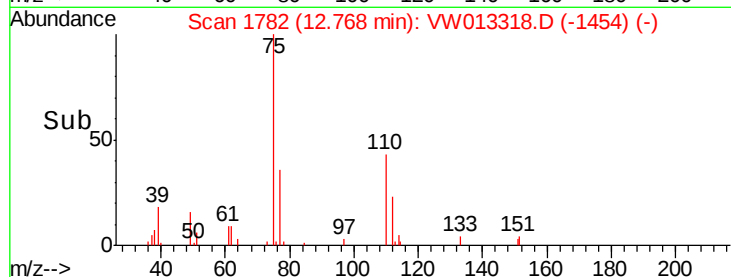
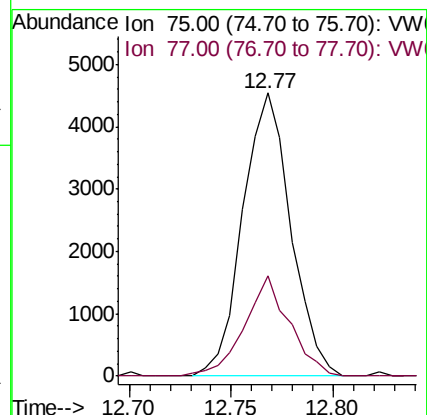
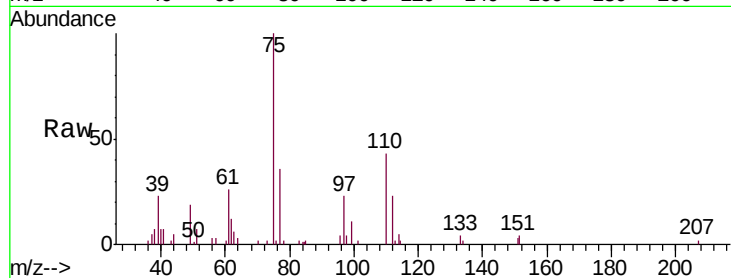
MDL03

Tgt Ion: 75 Resp: 7431

Ion Ratio Lower Upper

75 100

77 33.1 25.8 38.8



#62

Bromoform

Concen: 1.800 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

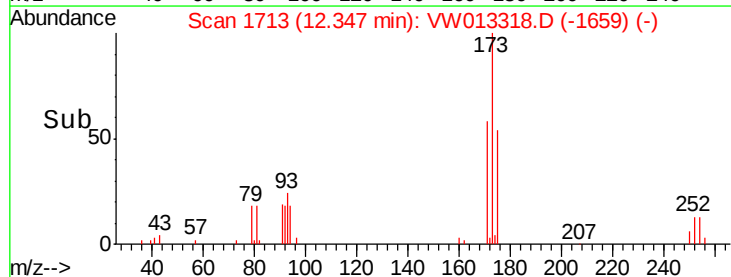
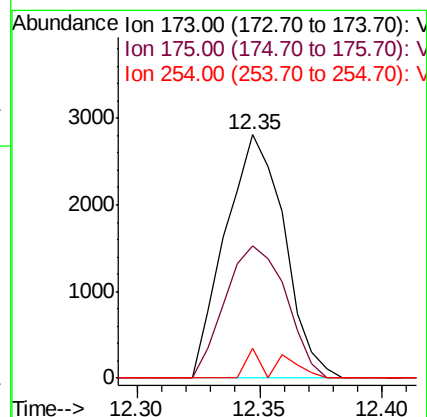
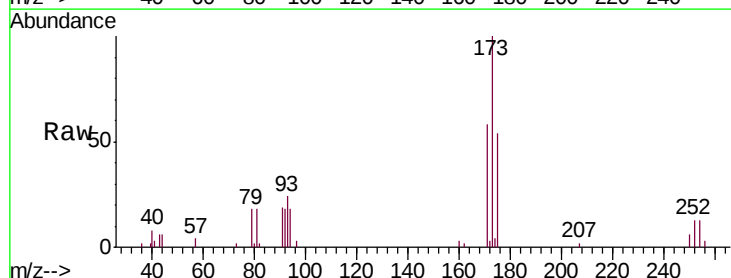
Tgt Ion: 173 Resp: 4718

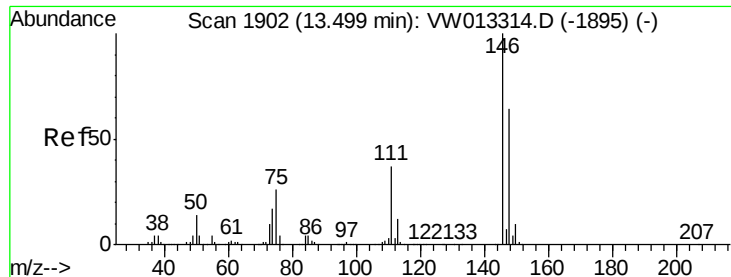
Ion Ratio Lower Upper

173 100

175 56.1 39.3 58.9

254 2.7 9.1 13.7#





#63

1,3-Dichlorobenzene

Concen: 1.897 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

MDL03

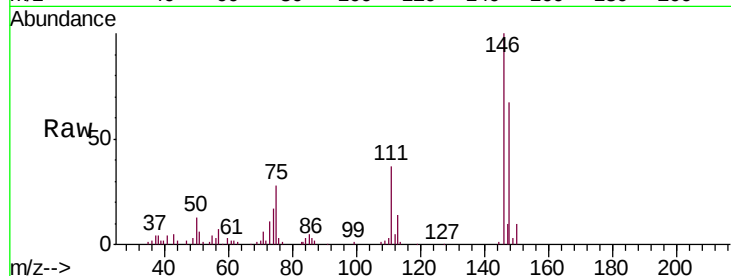
Tgt Ion:146 Resp: 19333

Ion Ratio Lower Upper

146 100

111 36.8 26.7 49.5

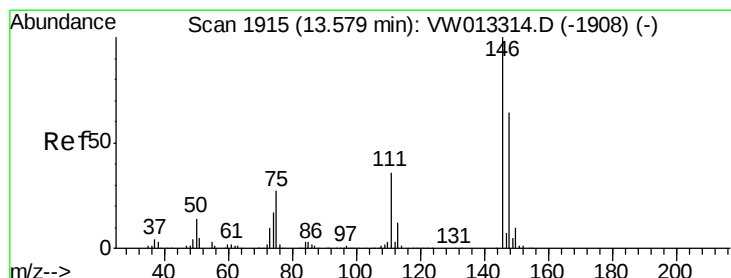
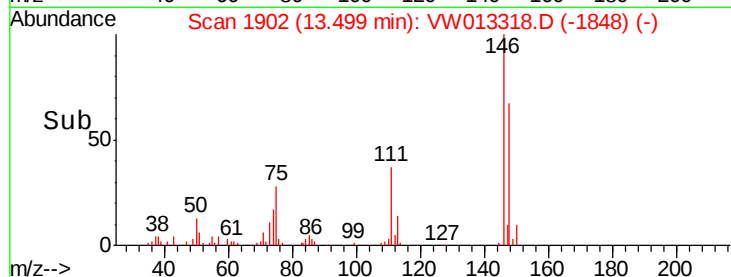
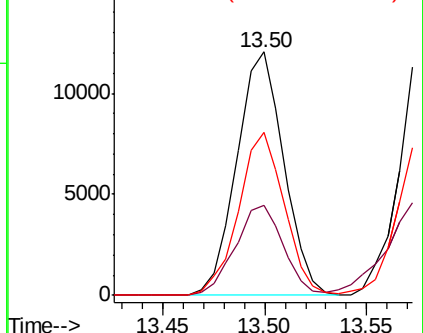
148 66.8 45.0 83.6



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



#64

1,4-Dichlorobenzene

Concen: 1.950 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

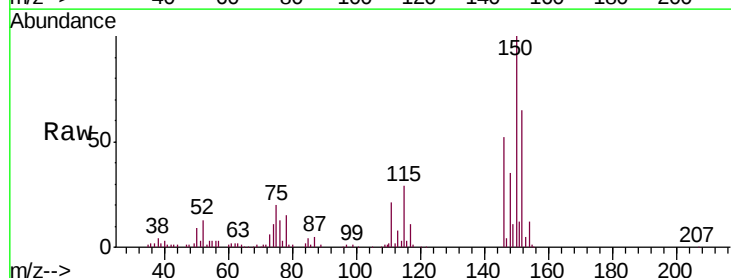
Tgt Ion:146 Resp: 20081

Ion Ratio Lower Upper

146 100

111 41.0 24.2 45.0

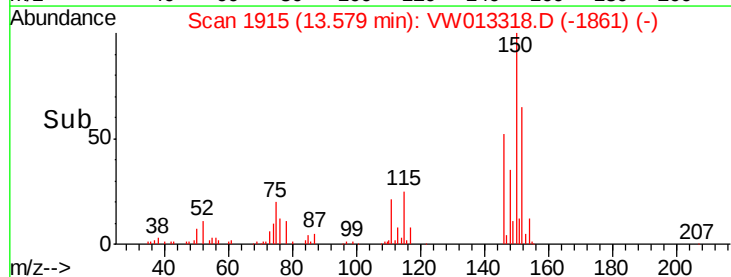
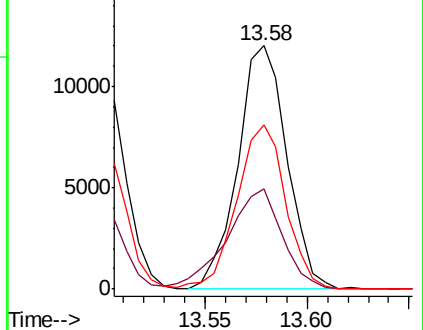
148 67.5 45.1 83.7

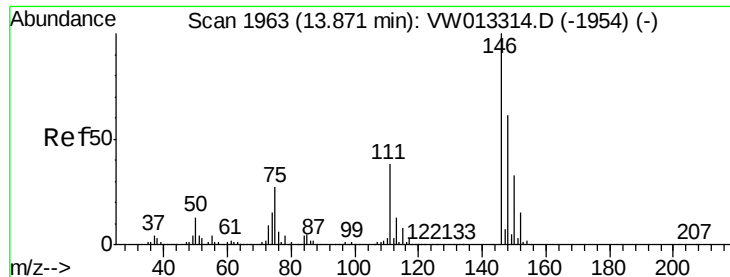


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 1.980 ug/L

RT: 13.87 min Scan# 1963

Delta R.T. -0.00 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

Instrument :

MSVOA_W

ClientSampleId :

MDL03

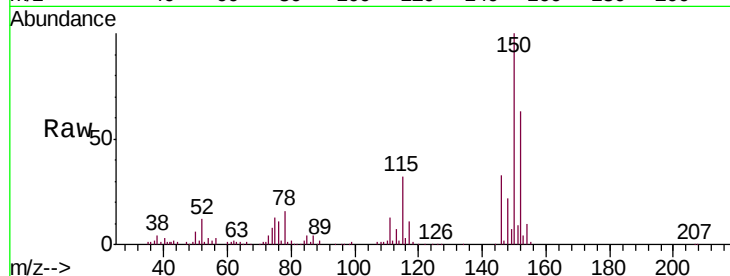
Tgt Ion:146 Resp: 18360

Ion Ratio Lower Upper

146 100

111 37.9 30.8 46.2

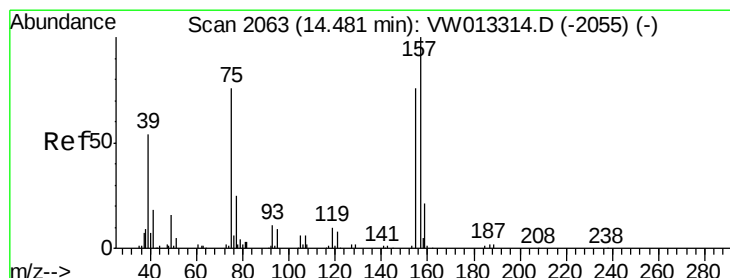
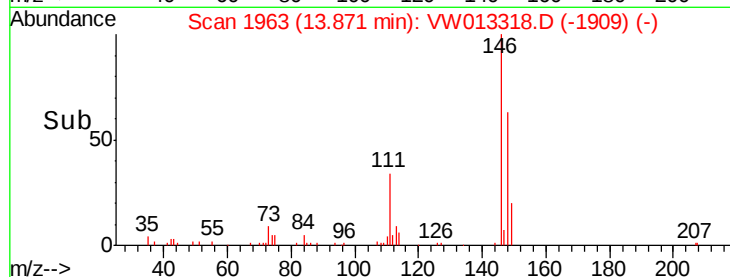
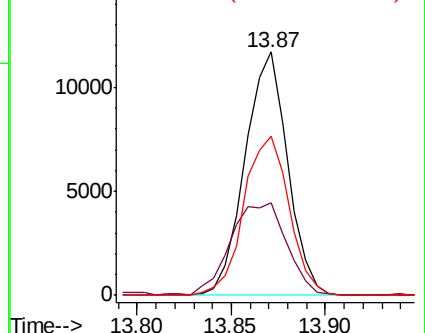
148 65.5 52.5 78.7



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: 2.375 ug/L

RT: 14.48 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

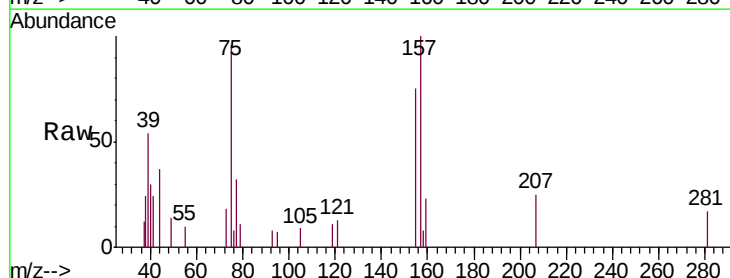
Tgt Ion: 75 Resp: 1735

Ion Ratio Lower Upper

75 100

157 103.6 97.8 146.8

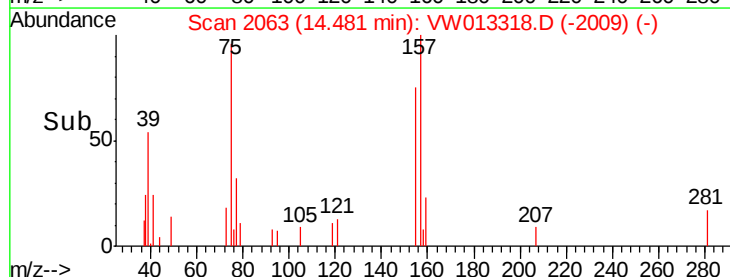
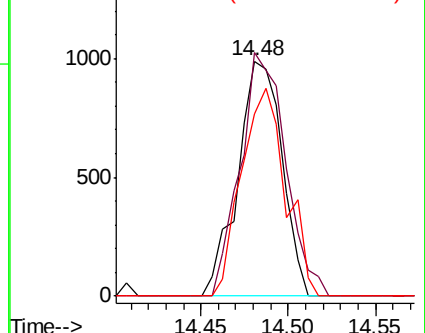
155 77.8 78.4 117.6#

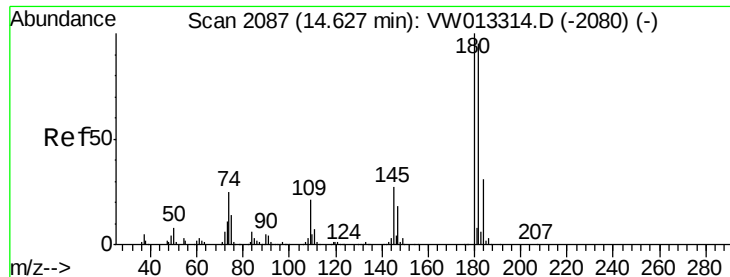


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

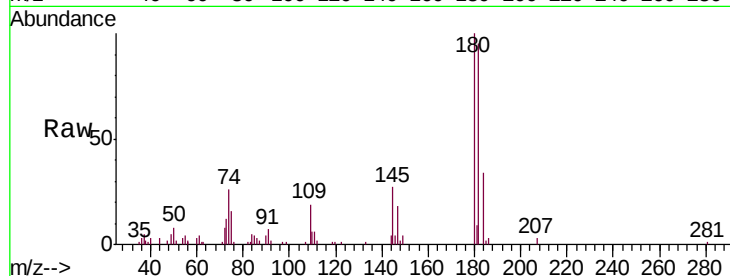




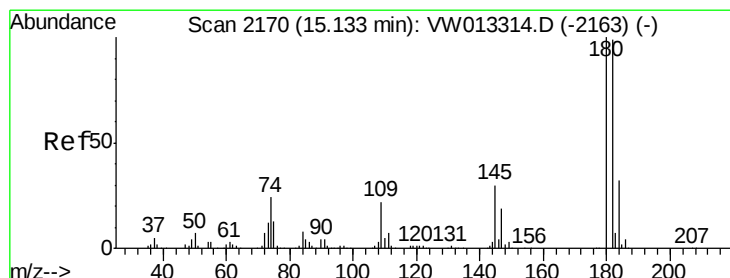
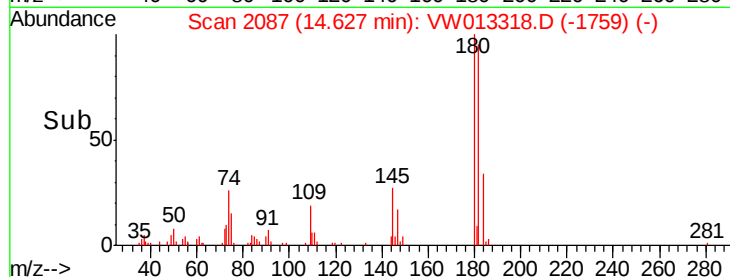
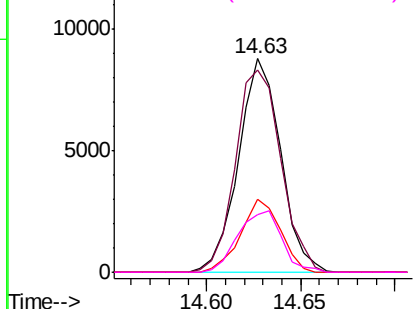
#67
 1,3,5-Trichlorobenzene
 Concen: 1.738 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW013318.D
 Acq: 27 Sep 2019 12:22

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL03

Tgt Ion:180 Resp: 13641
 Ion Ratio Lower Upper
 180 100
 182 101.8 76.4 114.6
 184 32.1 23.9 35.9
 145 29.8 21.7 32.5

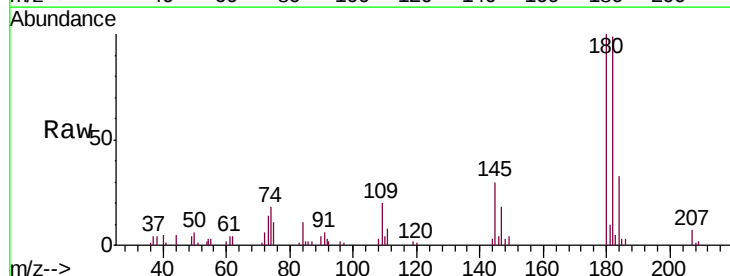


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

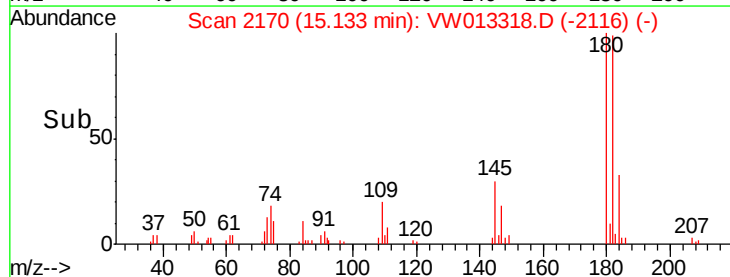
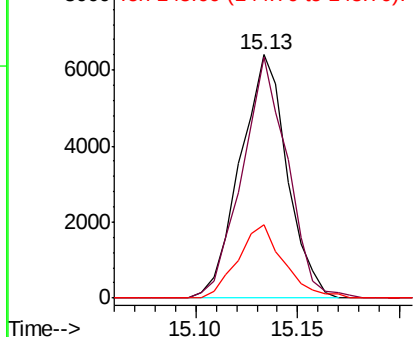


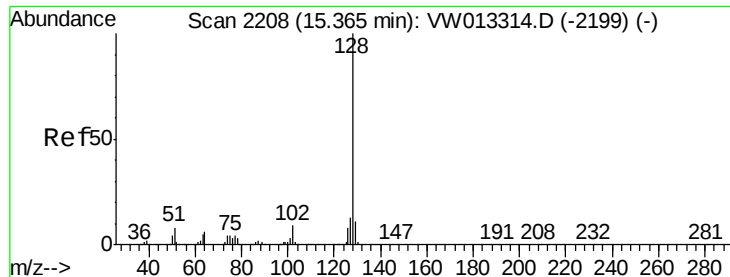
#68
 1,2,4-trichlorobenzene
 Concen: 1.634 ug/L
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW013318.D
 Acq: 27 Sep 2019 12:22

Tgt Ion:180 Resp: 10237
 Ion Ratio Lower Upper
 180 100
 182 96.1 75.9 113.9
 145 29.5 23.0 34.4



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





#69

Naphthalene

Concen: 1.459 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

Instrument :

MSVOA_W

ClientSampled :

MDL03

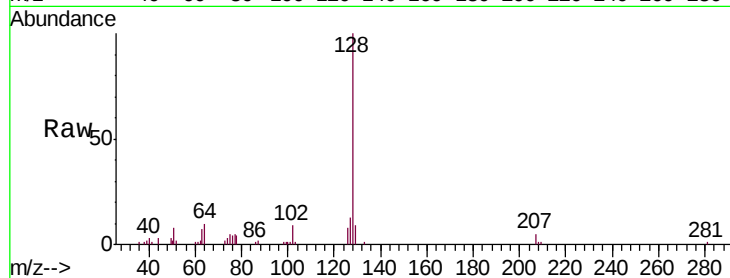
Tgt Ion:128 Resp: 17460

Ion Ratio Lower Upper

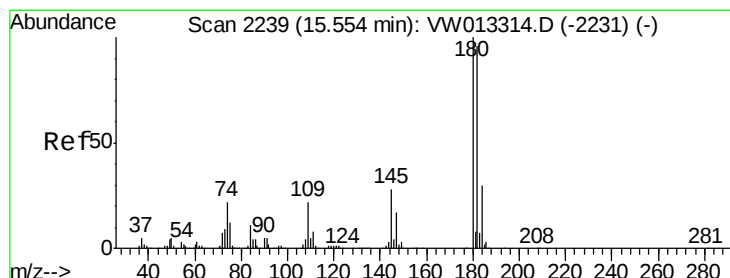
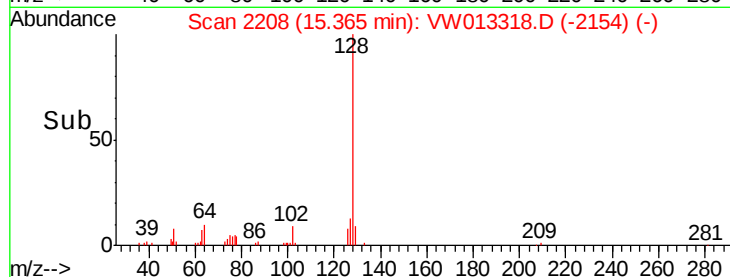
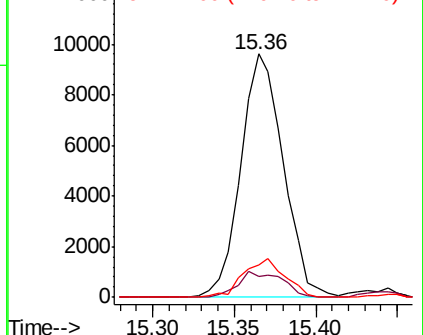
128 100

129 5.7 8.7 13.1#

127 14.7 10.6 15.8



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: 1.677 ug/L

RT: 15.55 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VW013318.D

Acq: 27 Sep 2019 12:22

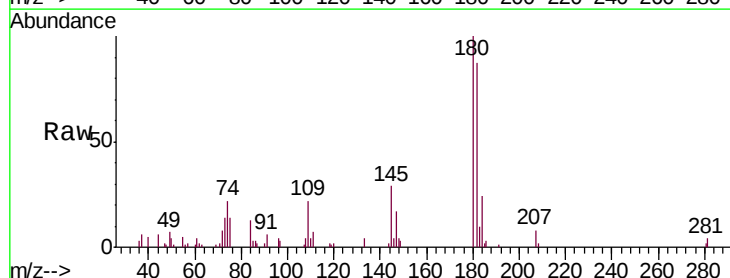
Tgt Ion:180 Resp: 9554

Ion Ratio Lower Upper

180 100

182 95.4 78.2 117.4

145 29.5 24.1 36.1



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

