

Data File : VW013322.D
Acq On : 27 Sep 2019 14:52
Operator : SY/VA
Sample : MDL07
Misc : 5.00G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
MDL07

Quant Time: Sep 28 03:43:55 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	430420	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	386359	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	189084	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	133087	25.93	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	103.72%
7) Chloroethane-d5	2.88	69	106814	25.93	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	103.72%
10) 1,1-Dichloroethene-d2	4.01	63	203915	20.18	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	80.72%
20) 2-Butanone-d5	7.08	46	107966	60.87	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	121.74%
24) Chloroform-d	7.65	84	245875	25.34	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	101.36%
26) 1,2-Dichloroethane-d4	8.31	65	138989	26.51	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	106.04%
29) Benzene-d6	8.27	84	542251	25.85	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	103.40%
33) 1,2-Dichloropropane-d6	9.27	67	160550	25.68	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	102.72%
37) Toluene-d8	10.32	98	509473	25.79	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	103.16%
38) trans-1,3-Dichloropropene-	10.58	79	69884	24.88	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	99.52%
39) 2-Hexanone-d5	10.92	63	82619	60.40	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	120.80%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	146722	27.64	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	110.56%
61) 1,2-Dichlorobenzene-d4	13.85	152	178544	26.43	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	105.72%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	3842	1.426 ug/L	92
3) Chloromethane	2.21	50	7358	2.039 ug/L	87
5) Vinyl chloride	2.36	62	9624	1.928 ug/L #	73
6) Bromomethane	2.78	94	6247	1.968 ug/L	93
8) Chloroethane	2.92	64	5661	1.869 ug/L	89
9) Trichlorofluoromethane	3.25	101	4563	1.475 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	4301	0.880 ug/L #	79
12) 1,1-Dichloroethene	4.04	96	10408	2.098 ug/L #	1
13) Acetone	4.13	43	10575	7.163 ug/L	94
14) Carbon disulfide	4.38	76	24328	1.727 ug/L	96
15) Methyl Acetate	4.67	43	4894	1.718 ug/L #	82
17) Methyl tert-butyl Ether	5.42	73	16609	1.935 ug/L #	86
18) trans-1,2-Dichloroethene	5.42	96	10209	1.924 ug/L	93
19) 1,1-Dichloroethane	6.21	63	18280	1.964 ug/L	97
21) 2-Butanone	7.18	43	11673	5.489 ug/L	98
22) cis-1,2-Dichloroethene	7.17	96	11481	1.986 ug/L	95
23) Bromochloromethane	7.51	128	2849	1.095 ug/L	92

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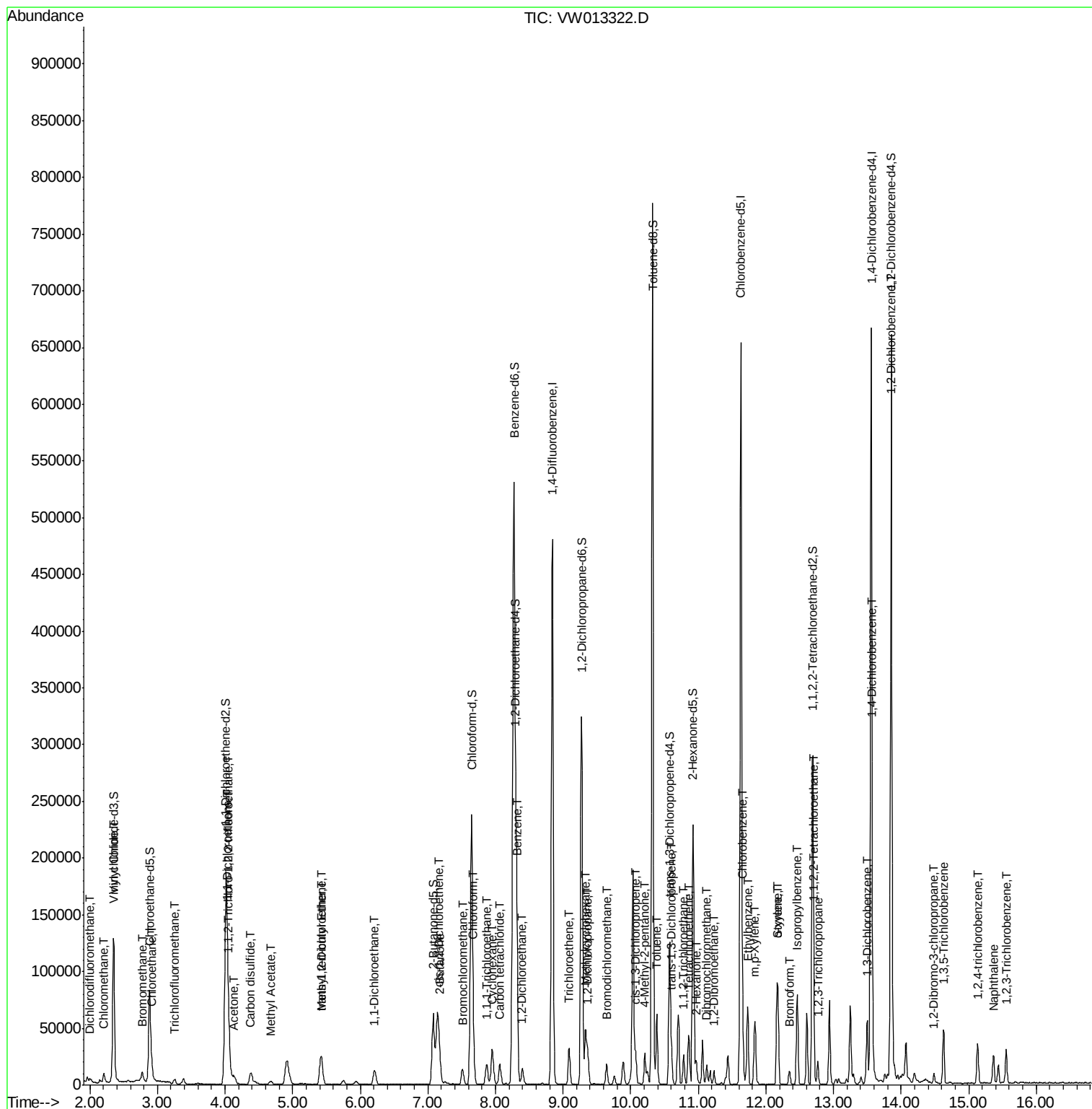
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	7.68	83	18853	2.062	ug/L	83
27) 1,2-Dichloroethane	8.40	62	12386	2.068	ug/L	96
30) Cyclohexane	7.95	56	16557	1.784	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	14732	1.987	ug/L	97
32) Carbon tetrachloride	8.07	117	13468	1.905	ug/L	97
34) Benzene	8.32	78	41729	1.927	ug/L	100
35) Trichloroethene	9.09	95	10776	1.894	ug/L	96
36) Methylcyclohexane	9.33	83	18366	1.812	ug/L	94
40) 1,2-Dichloropropane	9.37	63	10391	1.950	ug/L #	95
41) Bromodichloromethane	9.64	83	12547	1.919	ug/L #	96
42) cis-1,3-Dichloropropene	10.07	75	16448	1.932	ug/L	93
43) 4-Methyl-2-pentanone	10.21	43	20367	4.992	ug/L	96
44) Toluene	10.38	91	47295	2.006	ug/L	96
45) trans-1,3-Dichloropropene	10.60	75	15847	2.316	ug/L	97
46) 1,1,2-Trichloroethane	10.79	97	8111	1.943	ug/L	95
47) Tetrachloroethene	10.86	164	9859	1.925	ug/L	97
49) 2-Hexanone	10.97	43	12720	4.338	ug/L	96
50) Dibromochloromethane	11.13	129	9164	1.913	ug/L	94
51) 1,2-Dibromoethane	11.23	107	8174	1.993	ug/L #	94
52) Chlorobenzene	11.66	112	28875	1.943	ug/L	98
53) Ethylbenzene	11.73	91	49916	1.909	ug/L	97
54) m,p-Xylene	11.83	106	19195	1.912	ug/L	92
55) o-xylene	12.16	106	17657	1.864	ug/L	83
56) Styrene	12.18	104	29264	1.802	ug/L	98
57) Isopropylbenzene	12.46	105	46516	1.816	ug/L	97
58) 1,1,2,2-Tetrachloroethane	12.71	83	11831	2.300	ug/L #	96
59) 1,2,3-Trichloropropane	12.77	75	8335	2.171	ug/L	99
62) Bromoform	12.35	173	5632	1.883	ug/L #	95
63) 1,3-Dichlorobenzene	13.50	146	22692	1.950	ug/L	96
64) 1,4-Dichlorobenzene	13.58	146	23490	1.998	ug/L	98
65) 1,2-Dichlorobenzene	13.87	146	21597	2.040	ug/L	94
66) 1,2-Dibromo-3-chloropropan	14.49	75	1684	2.020	ug/L #	77
67) 1,3,5-Trichlorobenzene	14.63	180	16189	1.807	ug/L	98
68) 1,2,4-trichlorobenzene	15.13	180	12155	1.700	ug/L	99
69) Naphthalene	15.36	128	20769	1.520	ug/L #	95
70) 1,2,3-Trichlorobenzene	15.55	180	11454	1.761	ug/L #	93

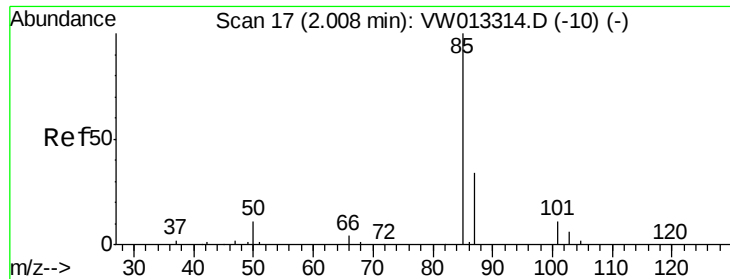
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 1.426 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW013322.D

Acq: 27 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampleId :

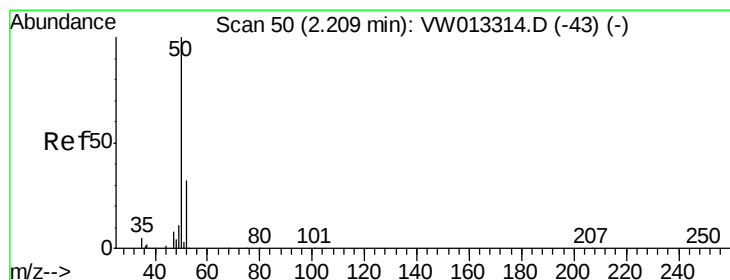
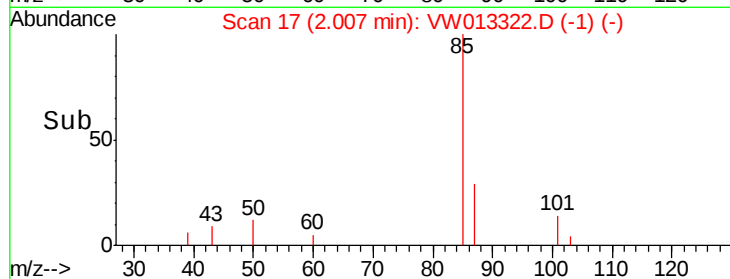
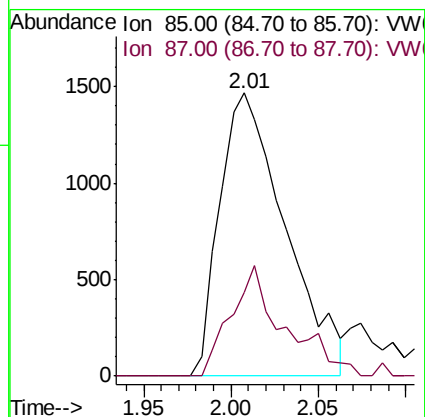
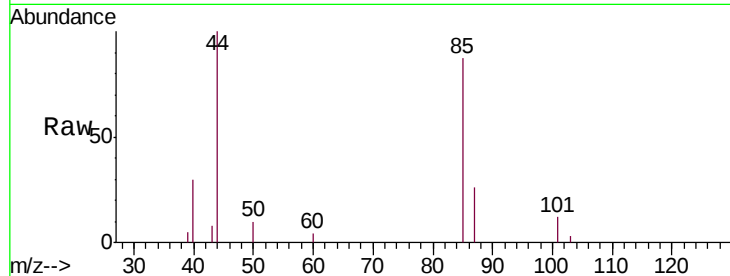
MDL07

Tgt Ion: 85 Resp: 3842

Ion Ratio Lower Upper

85 100

87 26.1 21.3 39.6



#3

Chloromethane

Concen: 2.039 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.00 min

Lab File: VW013322.D

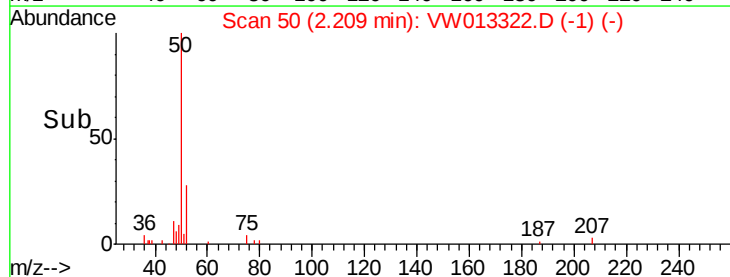
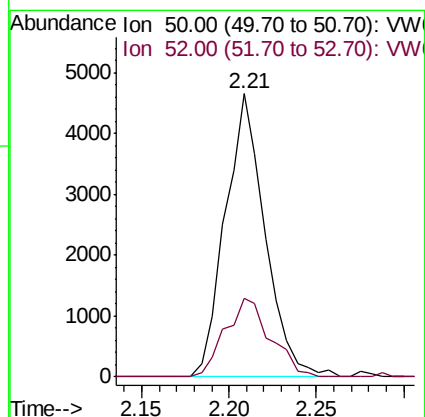
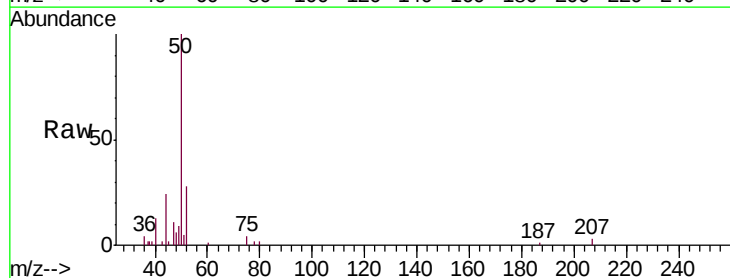
Acq: 27 Sep 2019 14:52

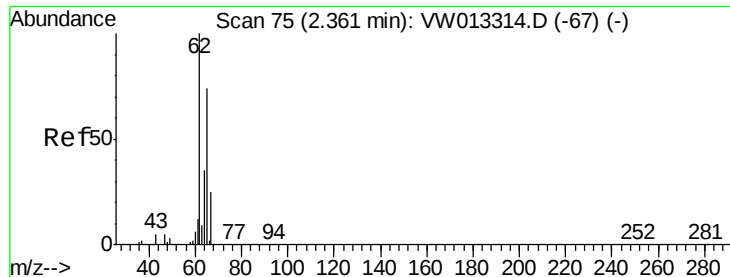
Tgt Ion: 50 Resp: 7358

Ion Ratio Lower Upper

50 100

52 27.6 24.4 45.4





#5

Vinyl chloride

Concen: 1.928 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW013322.D

Acq: 27 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampleId :

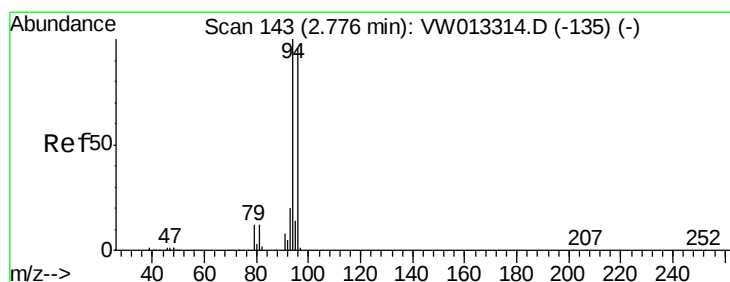
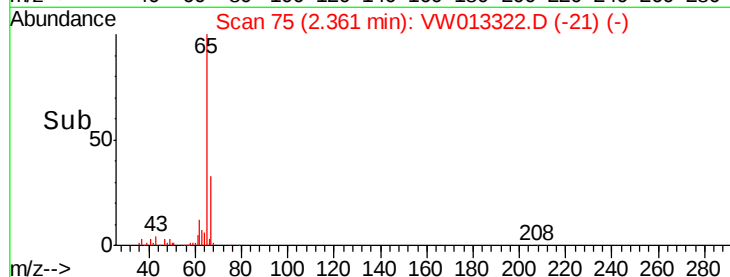
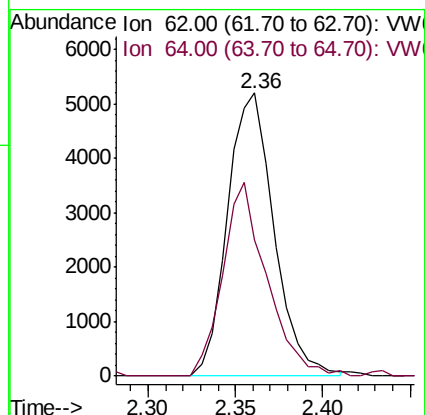
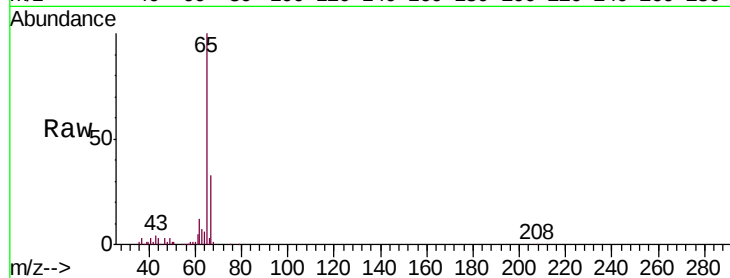
MDL07

Tgt Ion: 62 Resp: 9624

Ion Ratio Lower Upper

62 100

64 48.2 23.2 43.0#



#6

Bromomethane

Concen: 1.968 ug/L

RT: 2.78 min Scan# 143

Delta R.T. -0.00 min

Lab File: VW013322.D

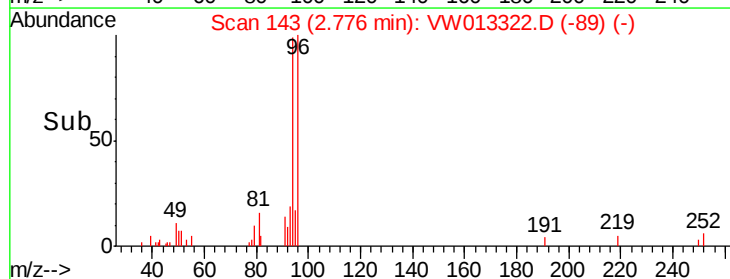
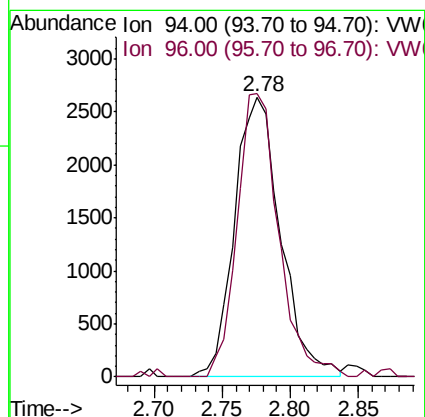
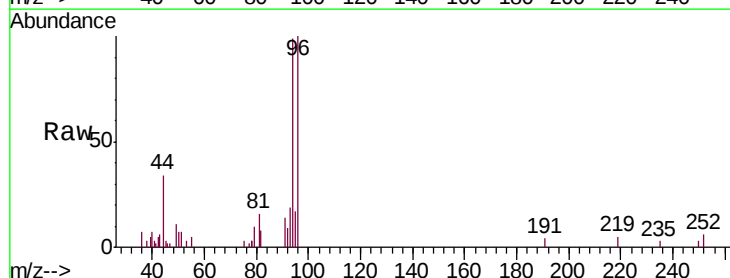
Acq: 27 Sep 2019 14:52

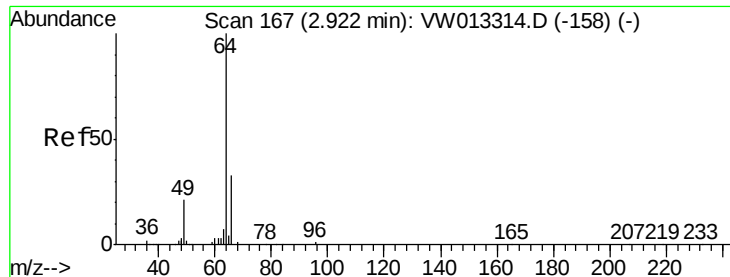
Tgt Ion: 94 Resp: 6247

Ion Ratio Lower Upper

94 100

96 90.6 9.7 184.3





#8

Chloroethane

Concen: 1.869 ug/L

RT: 2.92 min Scan# 166

Delta R.T. -0.01 min

Lab File: VW013322.D

Acq: 27 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampleId :

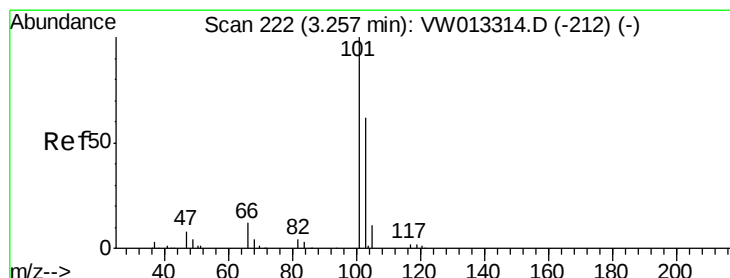
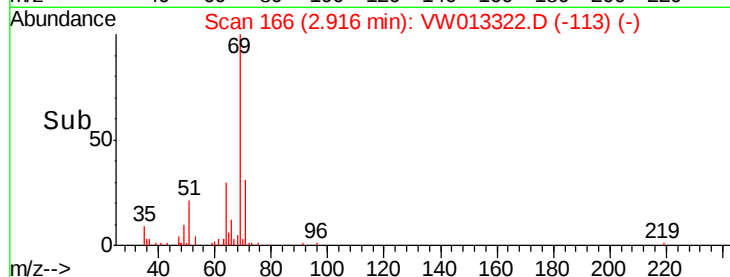
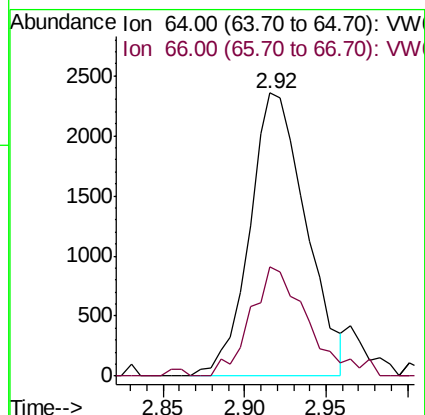
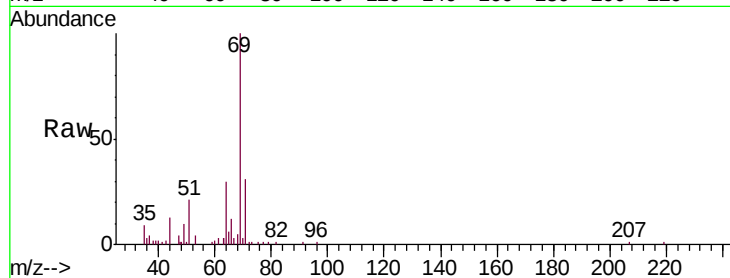
MDL07

Tgt Ion: 64 Resp: 5661

Ion Ratio Lower Upper

64 100

66 38.5 22.7 42.1



#9

Trichlorofluoromethane

Concen: 1.475 ug/L

RT: 3.25 min Scan# 221

Delta R.T. -0.01 min

Lab File: VW013322.D

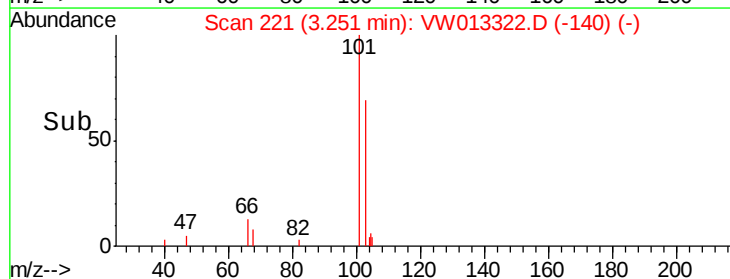
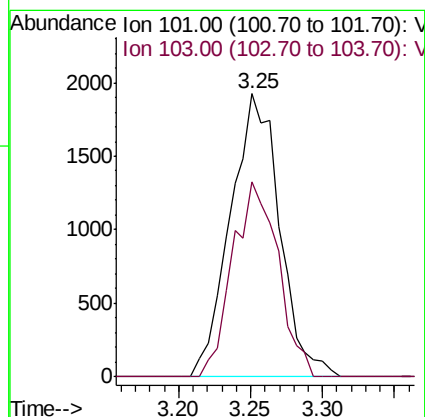
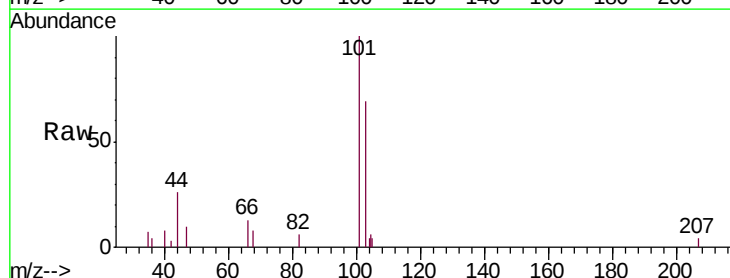
Acq: 27 Sep 2019 14:52

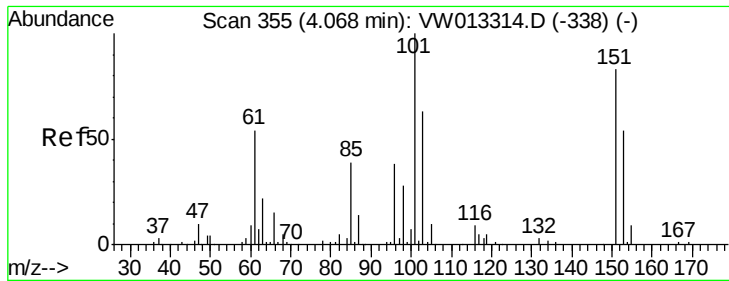
Tgt Ion: 101 Resp: 4563

Ion Ratio Lower Upper

101 100

103 63.8 45.2 84.0





#11

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

Concen: 0.880 ug/L

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW013322.D

Acq: 27 Sep 2019 14:52

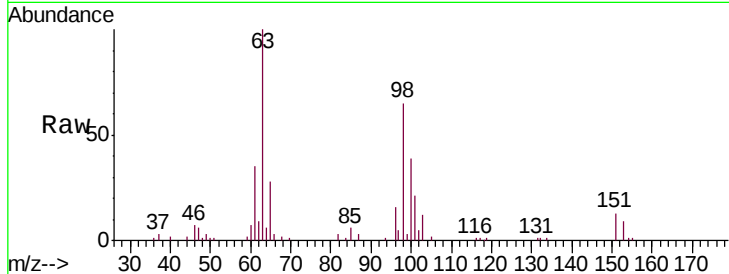
Instrument :

MSVOA_W

ClientSampleId :

MDL07

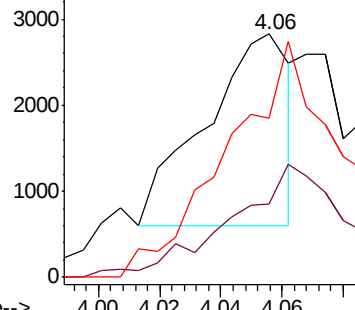
Tgt Ion:	101	Resp:	4301
Ion	Ratio	Lower	Upper
101	100		
85	67.0	31.8	47.8#
151	91.0	65.4	98.0



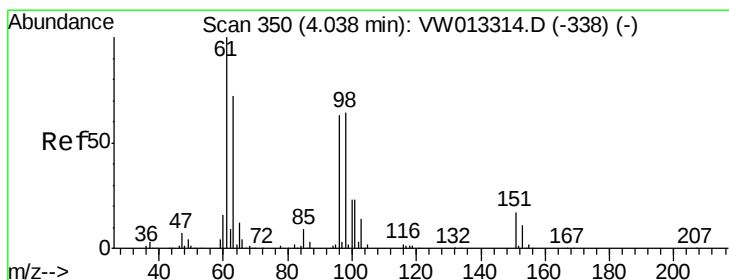
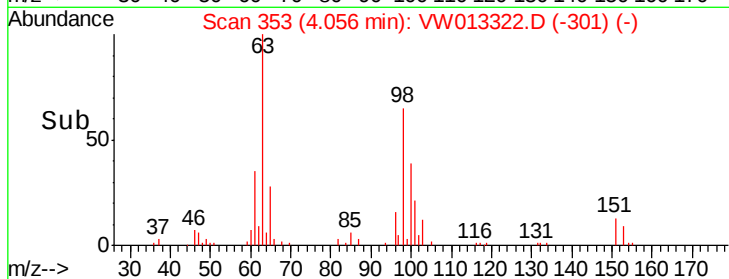
Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



Time-->



#12

1,1-Dichloroethene

Concen: 2.098 ug/L

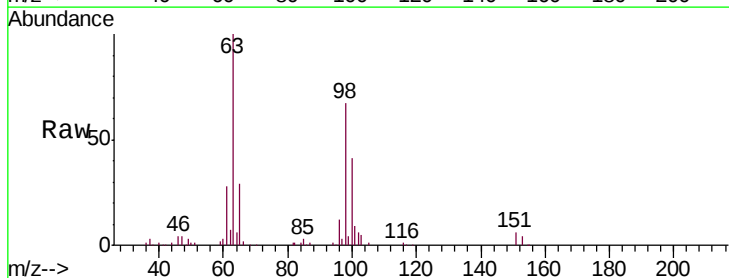
RT: 4.04 min Scan# 351

Delta R.T. 0.01 min

Lab File: VW013322.D

Acq: 27 Sep 2019 14:52

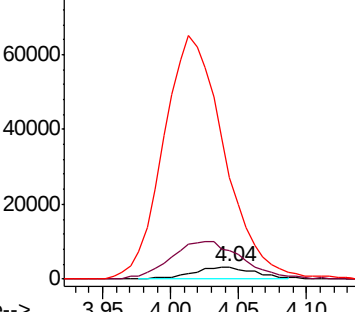
Tgt Ion:	96	Resp:	10408
Ion	Ratio	Lower	Upper
96	100		
61	237.3	115.9	215.3#
63	833.4	88.9	165.1#



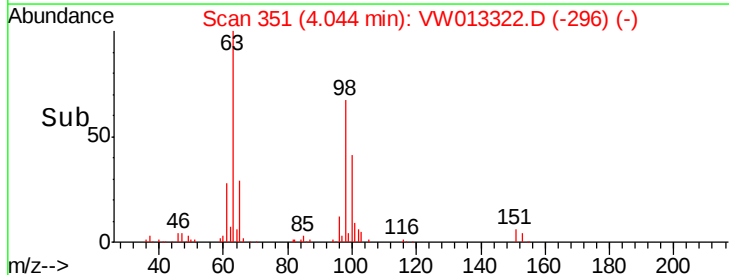
Abundance Ion 96.00 (95.70 to 96.70): VW

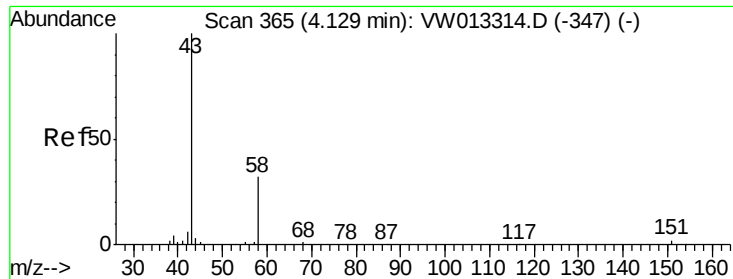
Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW



Time-->





#13

Acetone

Concen: 7.163 ug/L

RT: 4.13 min Scan# 365

Delta R.T. -0.00 min

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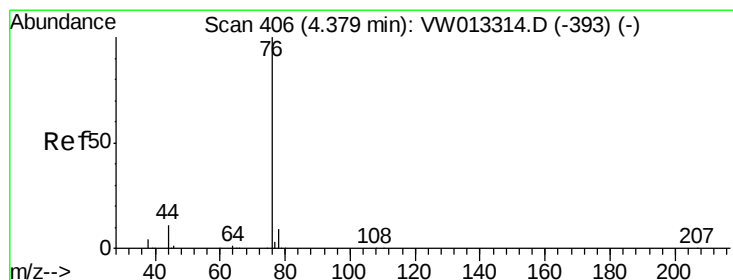
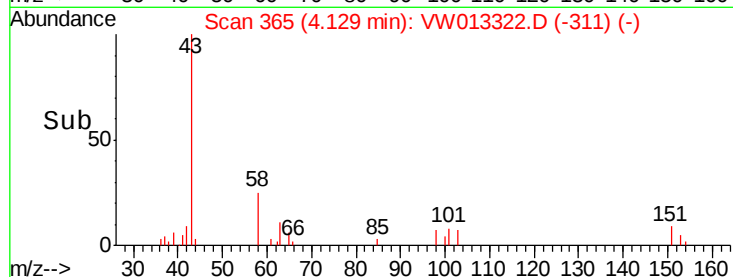
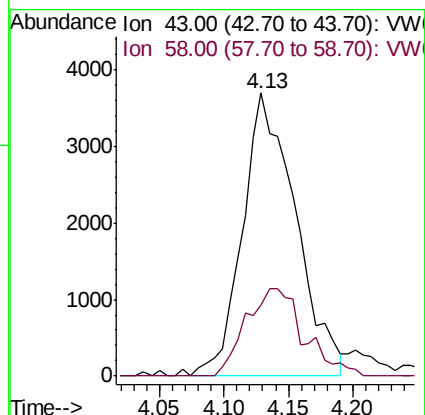
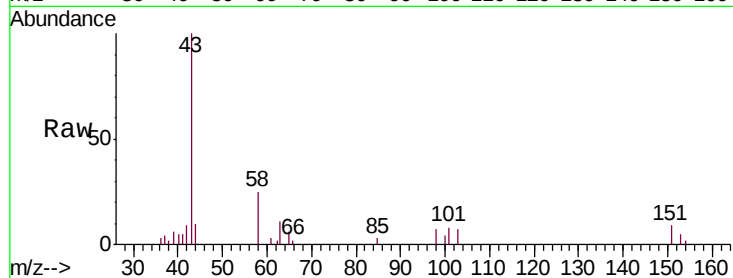
MDL07

Tgt Ion: 43 Resp: 10575

Ion Ratio Lower Upper

43 100

58 28.2 0.0 63.2



#14

Carbon disulfide

Concen: 1.727 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.00 min

Lab File: VW013322.D

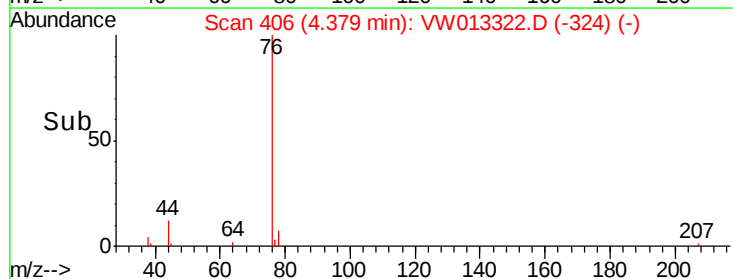
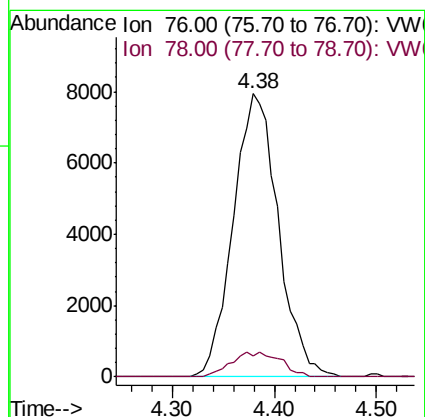
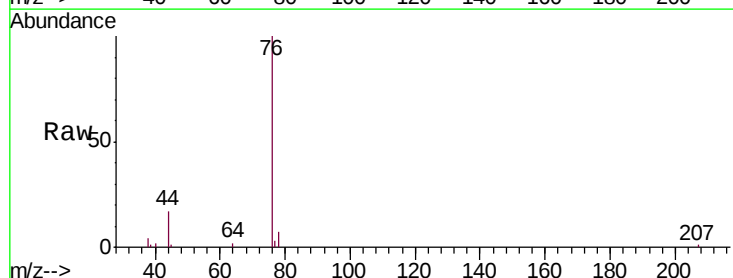
Acq: 27 Sep 2019 14:52

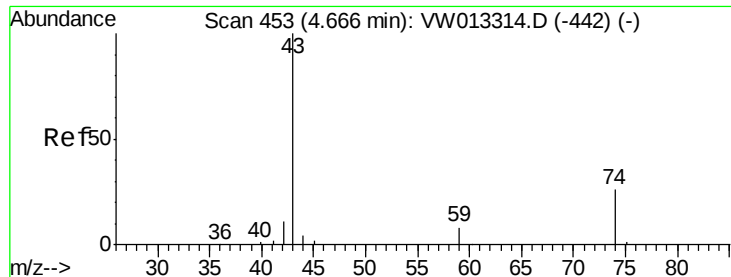
Tgt Ion: 76 Resp: 24328

Ion Ratio Lower Upper

76 100

78 7.4 7.2 10.8





#15

Methyl Acetate

Concen: 1.718 ug/L

RT: 4.67 min Scan# 454

Delta R.T. 0.01 min

Lab File: VW013322.D

Acq: 27 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampled :

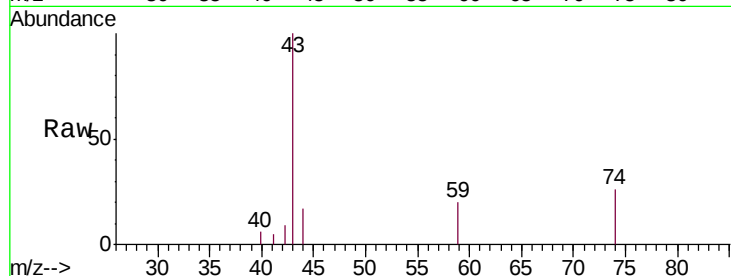
MDL07

Tgt Ion: 43 Resp: 4894

Ion Ratio Lower Upper

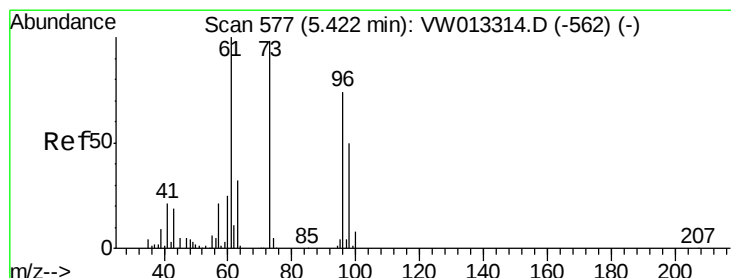
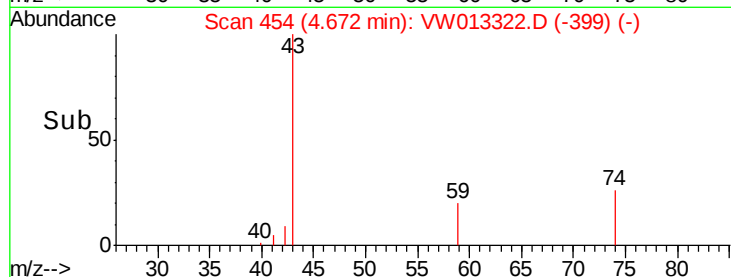
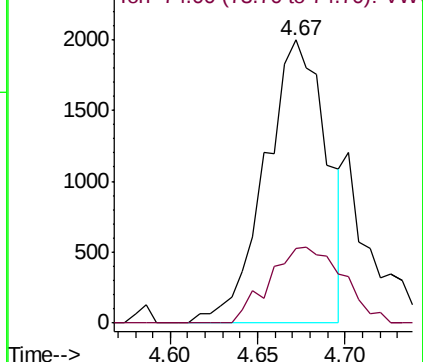
43 100

74 32.3 18.7 28.1#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW



#17

Methyl tert-butyl Ether

Concen: 1.935 ug/L

RT: 5.42 min Scan# 577

Delta R.T. -0.00 min

Lab File: VW013322.D

Acq: 27 Sep 2019 14:52

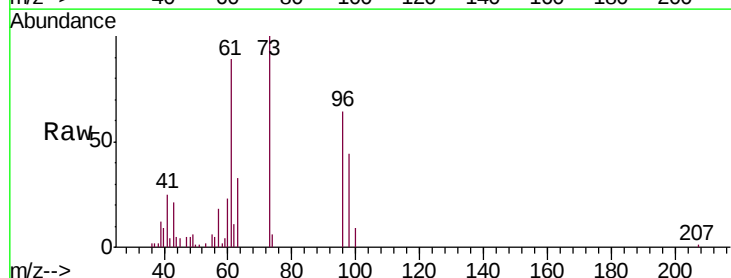
Tgt Ion: 73 Resp: 16609

Ion Ratio Lower Upper

73 100

43 17.3 15.3 22.9

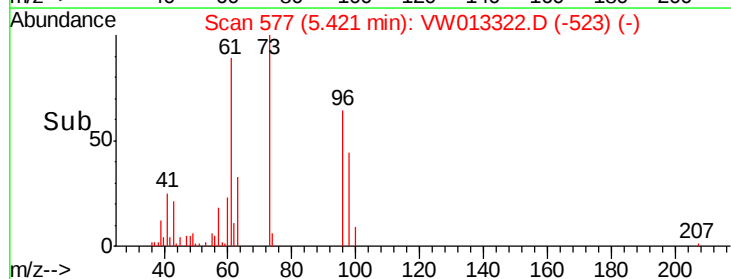
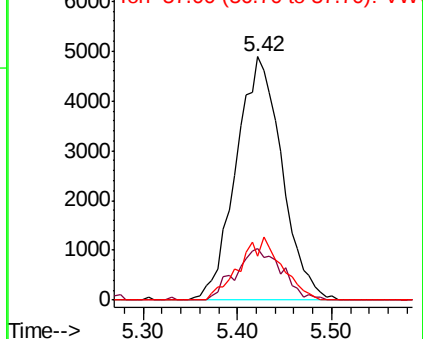
57 12.3 18.2 27.4#

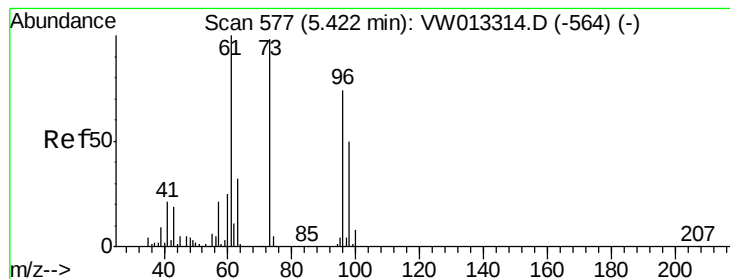


Abundance Ion 73.00 (72.70 to 73.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 57.00 (56.70 to 57.70): VW





#18

trans-1,2-Dichloroethene

Concen: 1.924 ug/L

RT: 5.42 min Scan# 576

Delta R.T. -0.01 min

Lab File: VW013322.D

Acq: 27 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampled :

MDL07

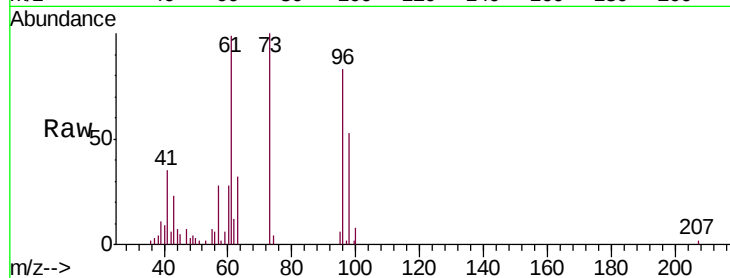
Tgt Ion: 96 Resp: 10209

Ion Ratio Lower Upper

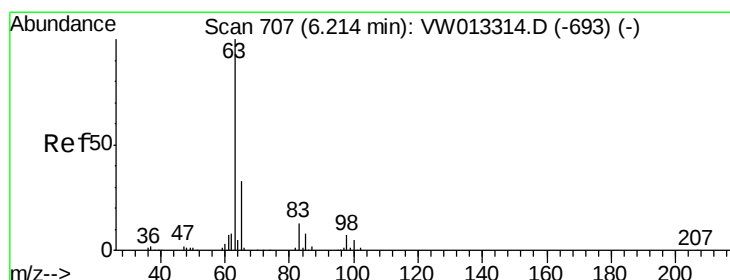
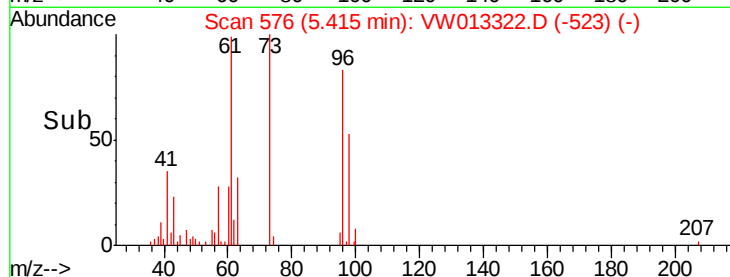
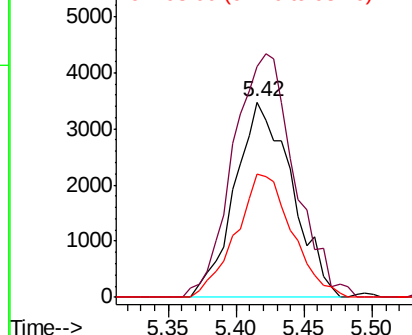
96 100

61 118.4 91.2 169.4

98 63.0 44.7 82.9



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



#19

1,1-Dichloroethane

Concen: 1.964 ug/L

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW013322.D

Acq: 27 Sep 2019 14:52

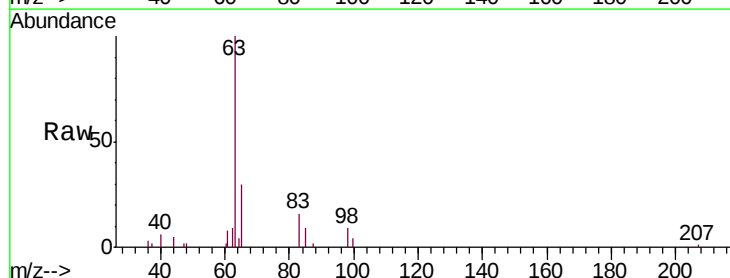
Tgt Ion: 63 Resp: 18280

Ion Ratio Lower Upper

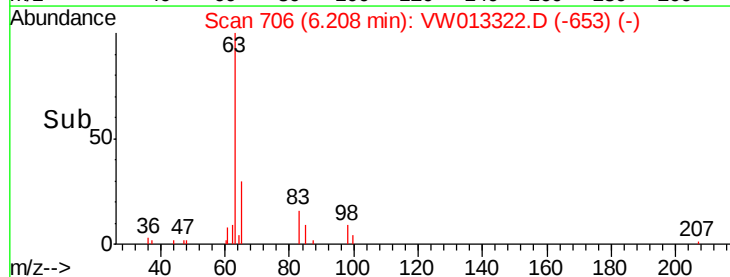
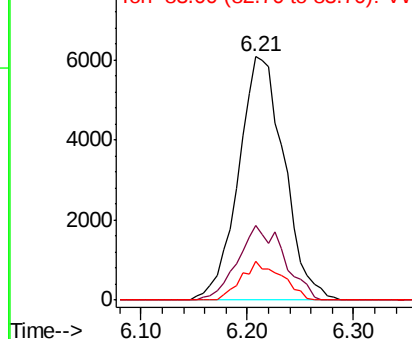
63 100

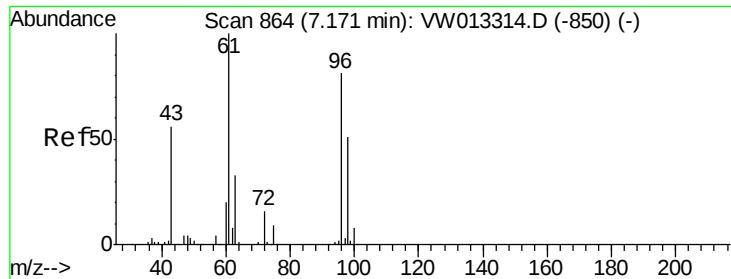
65 30.4 21.8 40.4

83 15.7 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

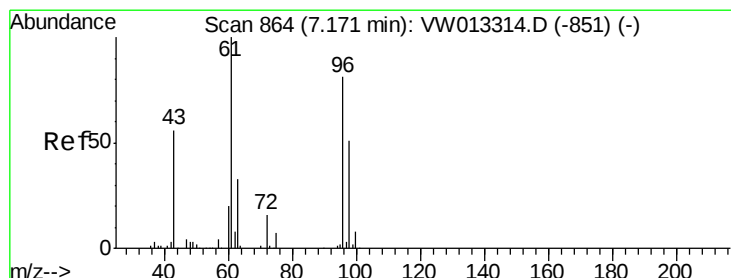
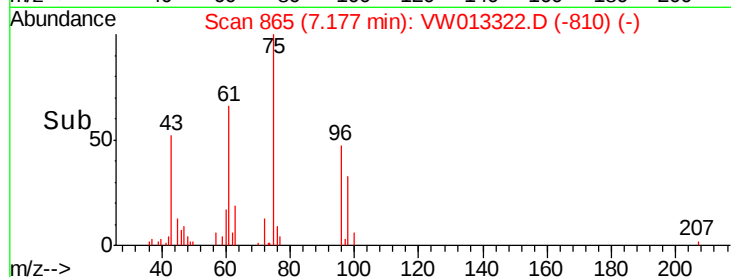
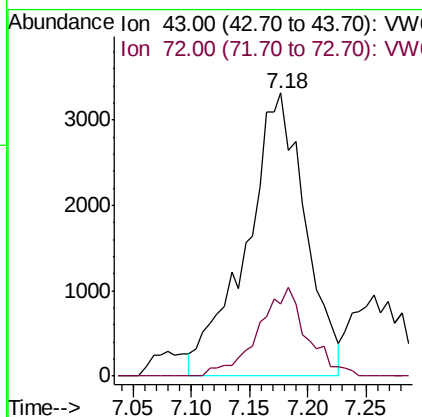
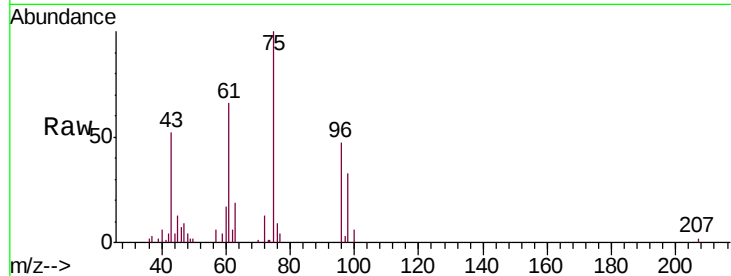




#21
 2-Butanone
 Concen: 5.489 ug/L
 RT: 7.18 min Scan# 865
 Delta R.T. 0.01 min
 Lab File: VW013322.D
 Acq: 27 Sep 2019 14:52

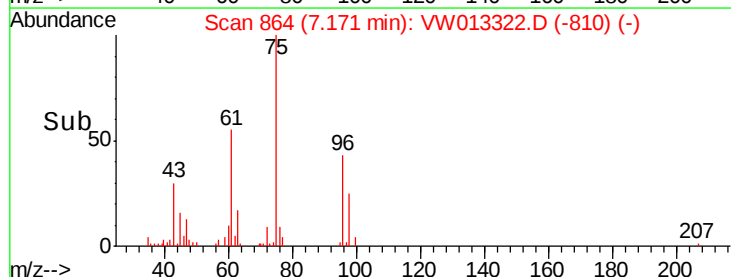
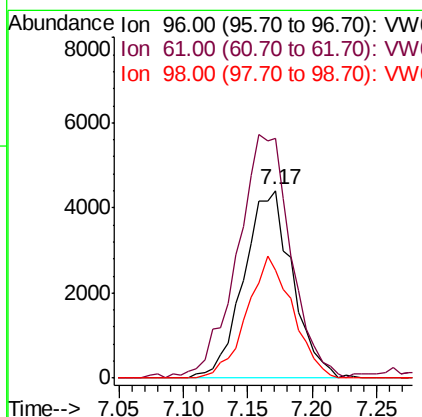
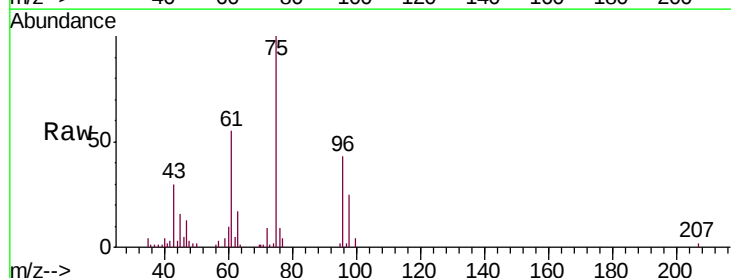
Instrument :
 MSVOA_W
 ClientSampled :
 MDL07

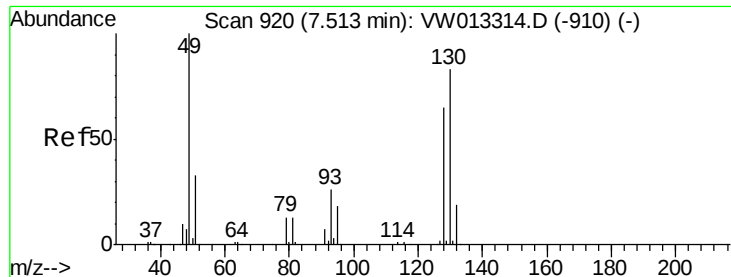
Tgt Ion: 43 Resp: 11673
 Ion Ratio Lower Upper
 43 100
 72 25.3 13.2 39.6



#22
 cis-1,2-Dichloroethene
 Concen: 1.986 ug/L
 RT: 7.17 min Scan# 864
 Delta R.T. -0.00 min
 Lab File: VW013322.D
 Acq: 27 Sep 2019 14:52

Tgt Ion: 96 Resp: 11481
 Ion Ratio Lower Upper
 96 100
 61 127.7 86.0 159.6
 98 57.2 43.5 80.9

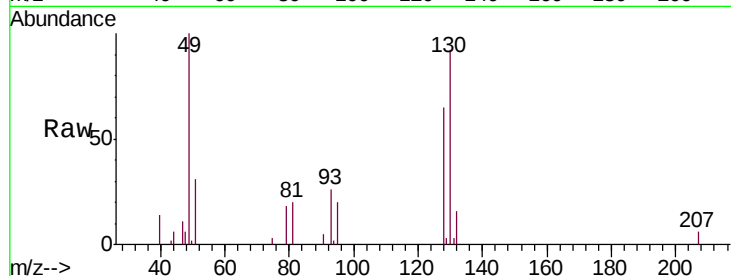




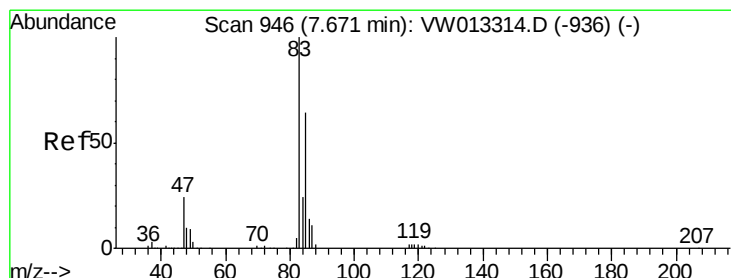
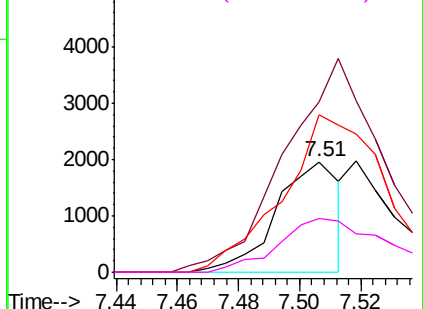
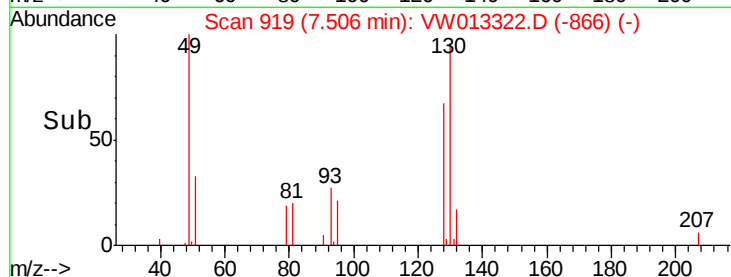
#23
 Bromochloromethane
 Concen: 1.095 ug/L
 RT: 7.51 min Scan# 919
 Delta R.T. -0.01 min
 Lab File: VW013322.D
 Acq: 27 Sep 2019 14:52

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL07

Tgt Ion:128 Resp: 2849
 Ion Ratio Lower Upper
 128 100
 49 154.9 114.6 212.8
 130 142.9 92.6 172.0
 51 48.4 42.7 64.1

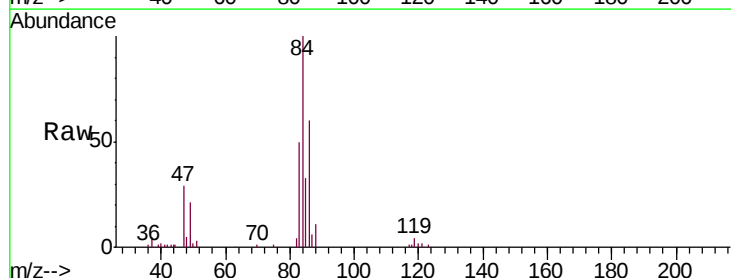


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VV
 Ion 130.00 (129.70 to 130.70): V
 Ion 51.00 (50.70 to 51.70): VV

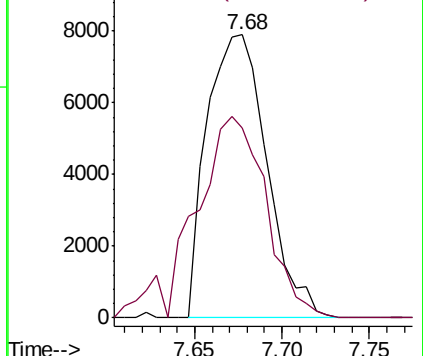
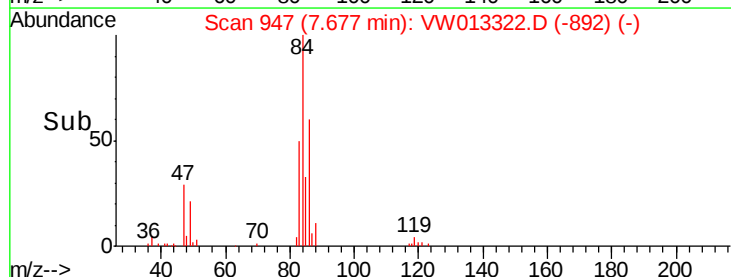


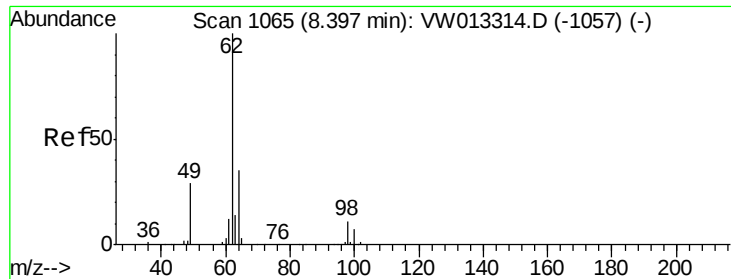
#25
 Chloroform
 Concen: 2.062 ug/L
 RT: 7.68 min Scan# 947
 Delta R.T. 0.01 min
 Lab File: VW013322.D
 Acq: 27 Sep 2019 14:52

Tgt Ion: 83 Resp: 18853
 Ion Ratio Lower Upper
 83 100
 85 79.3 45.9 85.3



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





#27

1,2-Dichloroethane

Concen: 2.068 ug/L

RT: 8.40 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VW013322.D

Acq: 27 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampleId :

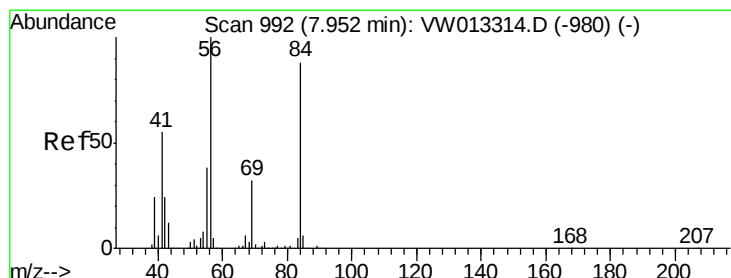
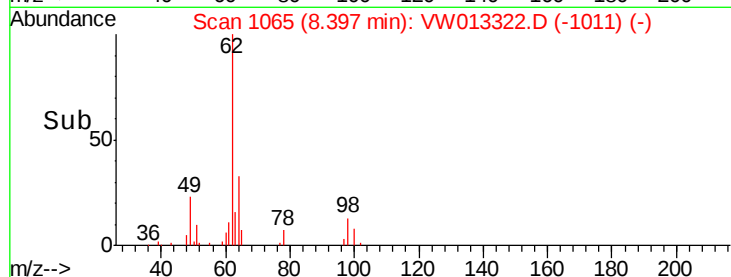
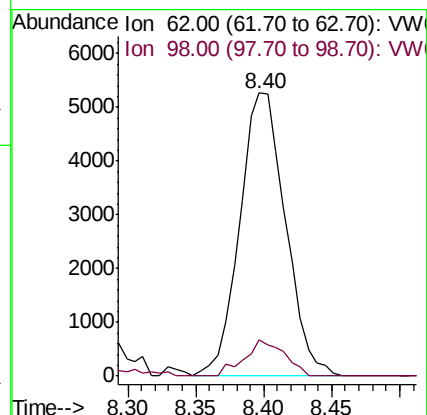
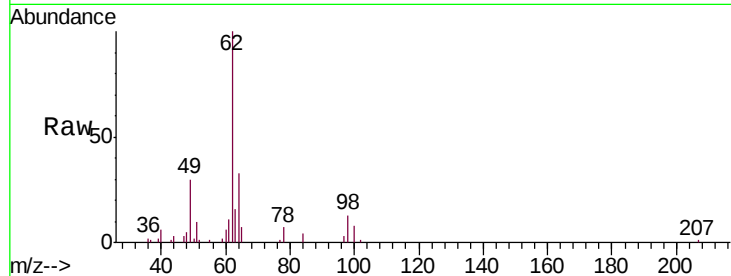
MDL07

Tgt Ion: 62 Resp: 12386

Ion Ratio Lower Upper

62 100

98 12.9 9.0 13.6



#30

Cyclohexane

Concen: 1.784 ug/L

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW013322.D

Acq: 27 Sep 2019 14:52

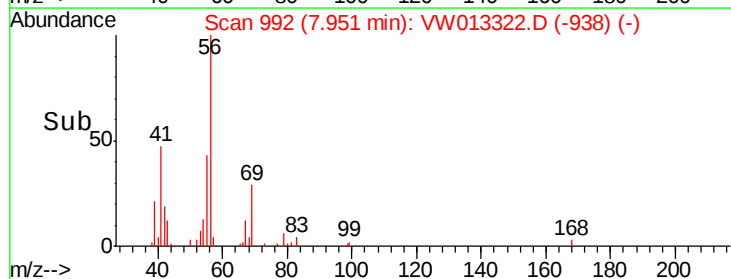
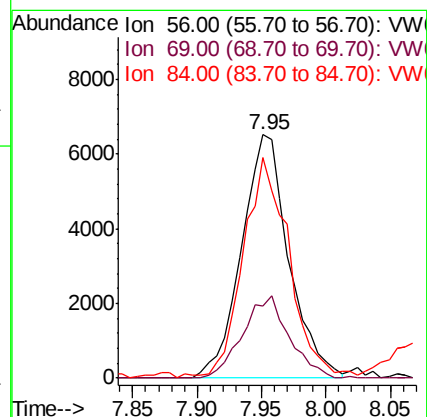
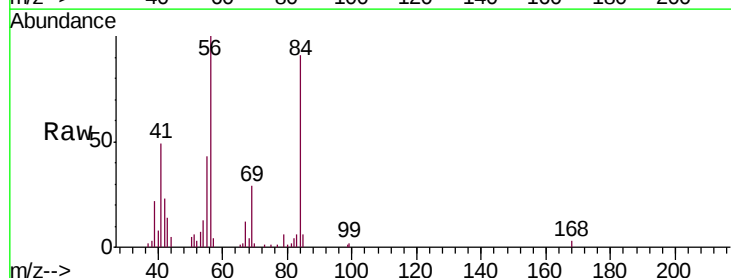
Tgt Ion: 56 Resp: 16557

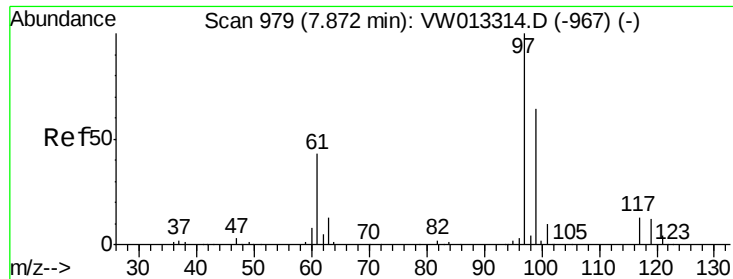
Ion Ratio Lower Upper

56 100

69 33.0 24.6 37.0

84 87.1 69.5 104.3





#31

1,1,1-Trichloroethane

Concen: 1.987 ug/L

RT: 7.87 min Scan# 978

Delta R.T. -0.01 min

Lab File: VW013322.D

Acq: 27 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampleId :

MDL07

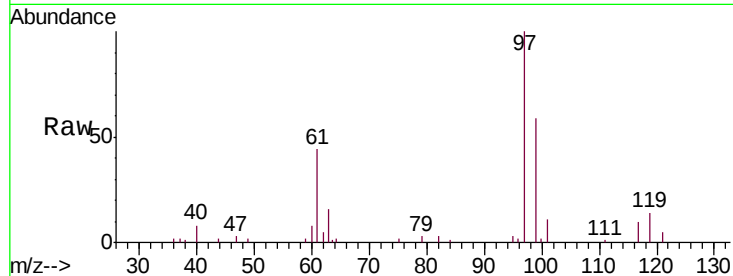
Tgt Ion: 97 Resp: 14732

Ion Ratio Lower Upper

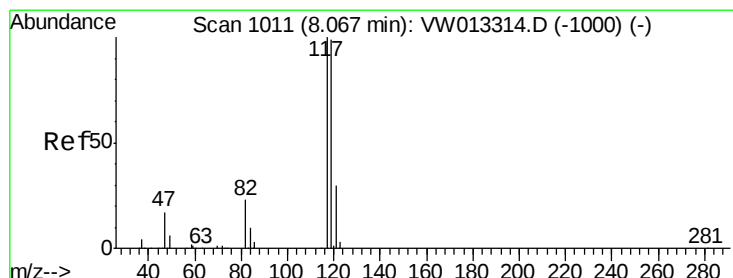
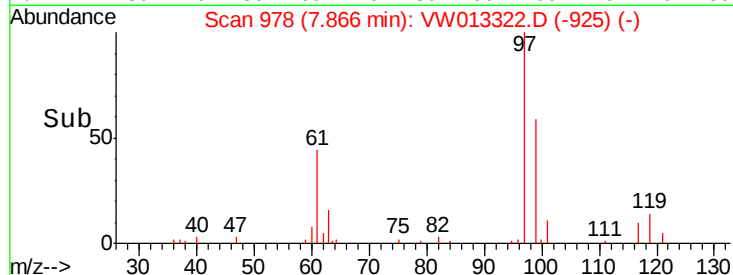
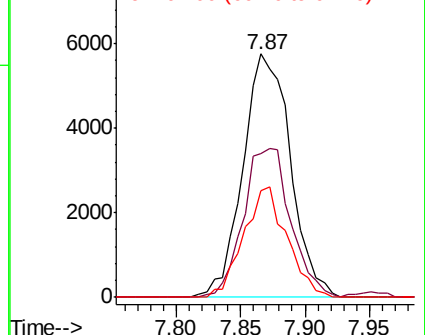
97 100

99 61.1 50.6 75.8

61 41.1 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: 1.905 ug/L

RT: 8.07 min Scan# 1011

Delta R.T. -0.00 min

Lab File: VW013322.D

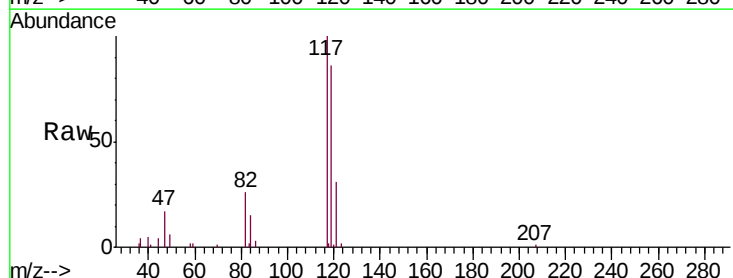
Acq: 27 Sep 2019 14:52

Tgt Ion: 117 Resp: 13468

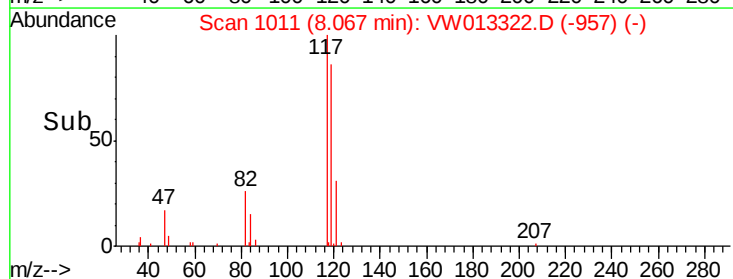
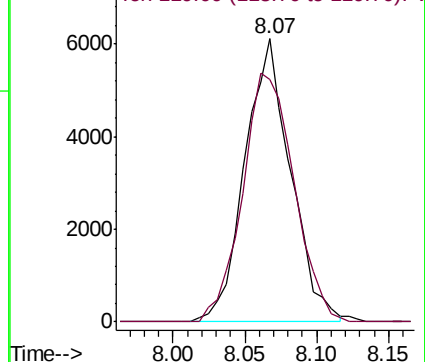
Ion Ratio Lower Upper

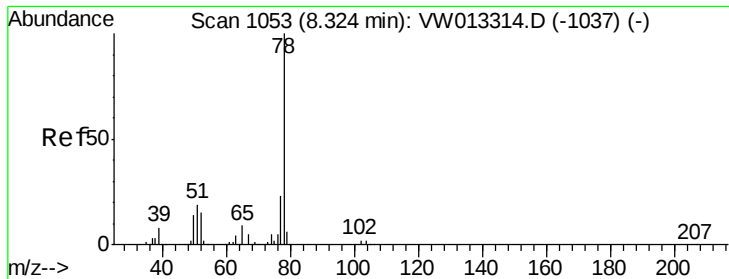
117 100

119 99.1 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: 1.927 ug/L

RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VW013322.D

Acq: 27 Sep 2019 14:52

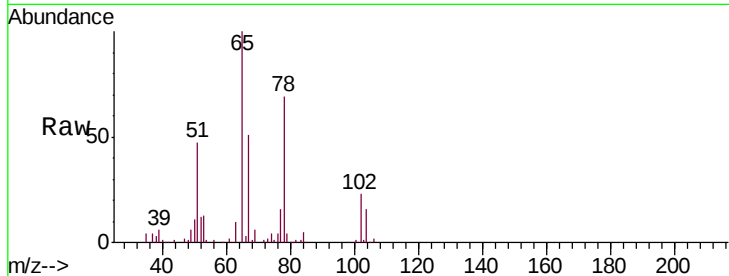
Instrument :

MSVOA_W

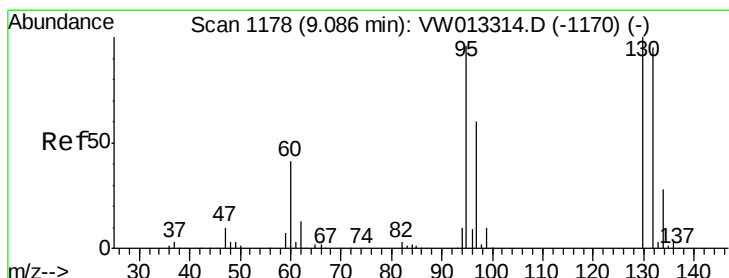
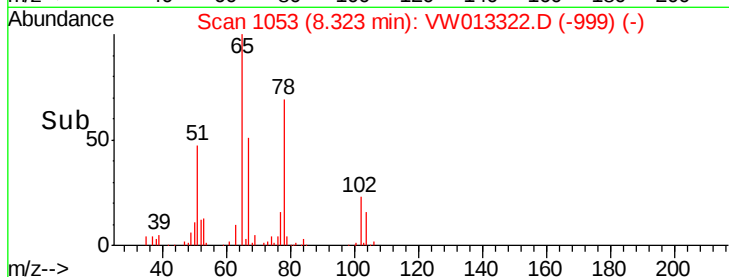
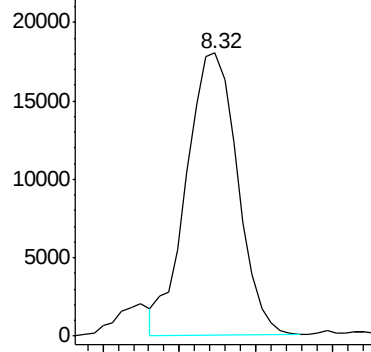
ClientSampleId :

MDL07

Tgt Ion: 78 Resp: 41729



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 1.894 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.01 min

Lab File: VW013322.D

Acq: 27 Sep 2019 14:52

Tgt Ion: 95 Resp: 10776

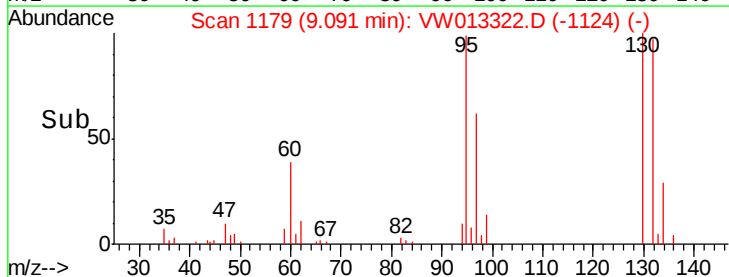
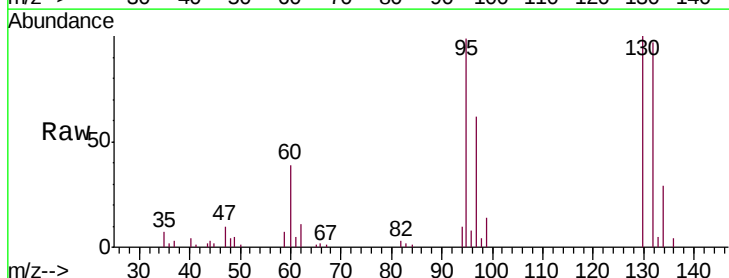
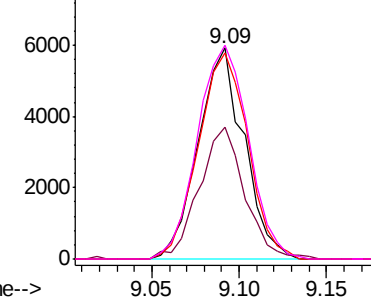
Ion	Ratio	Lower	Upper
95	100		
97	61.9	44.3	82.3
132	105.6	71.7	133.3
130	113.0	74.1	137.7

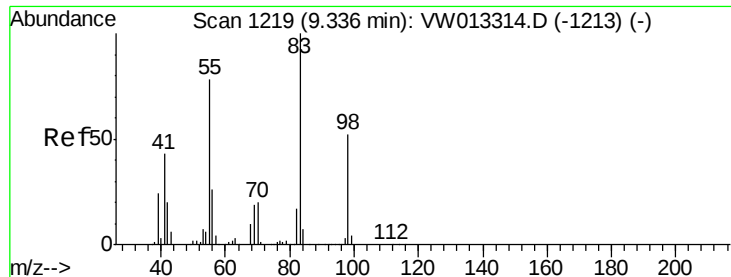
Abundance Ion 95.00 (94.70 to 95.70): VW

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

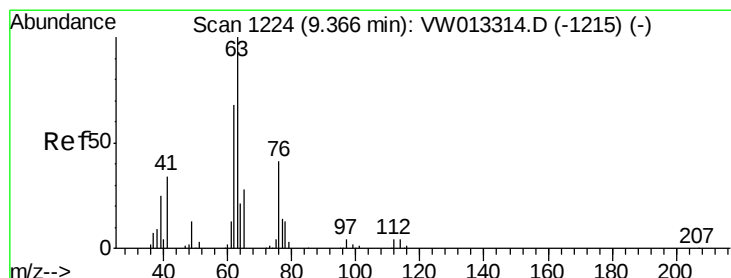
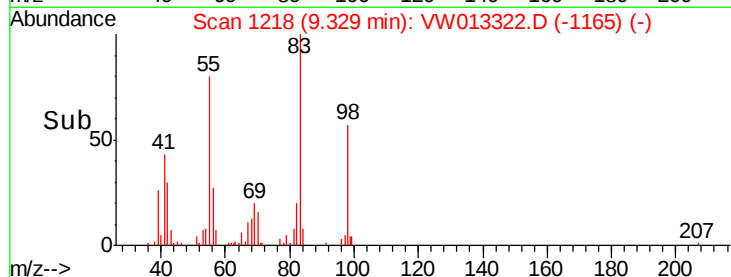
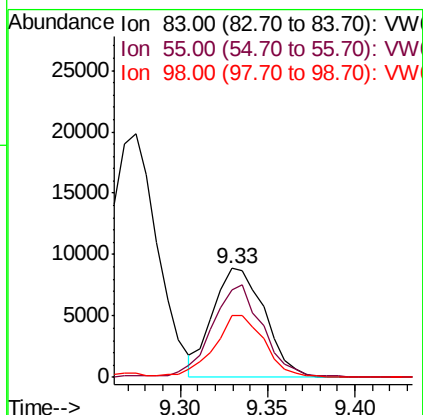
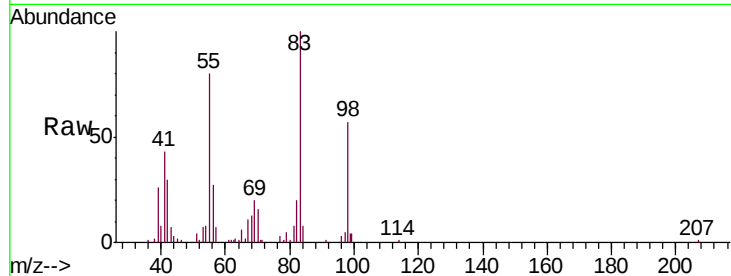




#36
Methylcyclohexane
Concen: 1.812 ug/L
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW013322.D
Acq: 27 Sep 2019 14:52

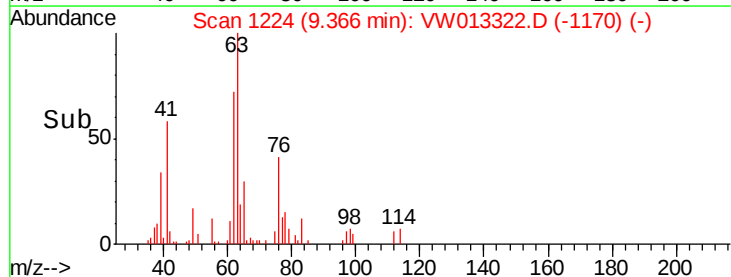
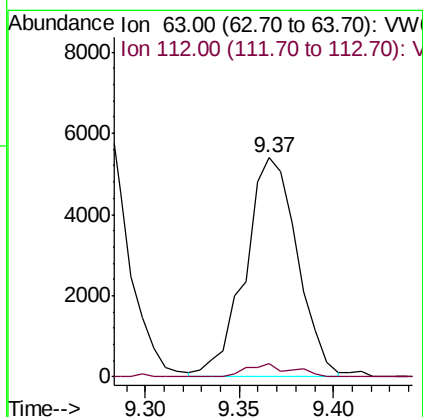
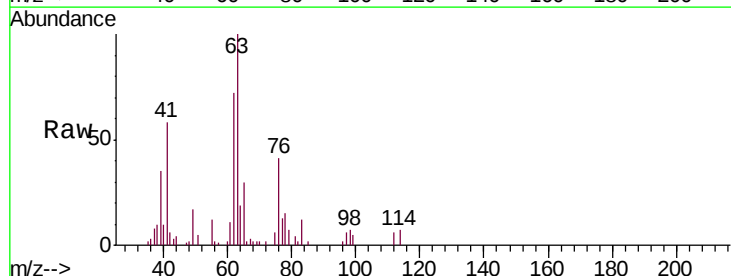
Instrument :
MSVOA_W
ClientSampled :
MDL07

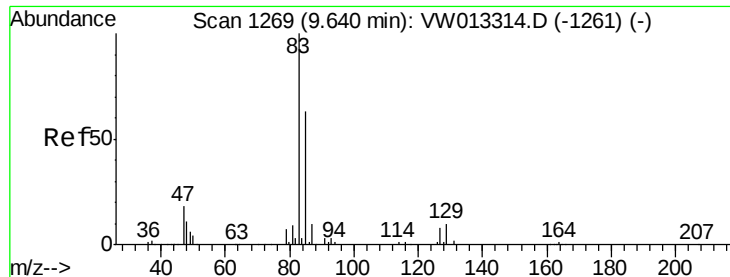
Tgt Ion: 83 Resp: 18366
Ion Ratio Lower Upper
83 100
55 82.4 61.8 92.6
98 54.4 39.6 59.4



#40
1,2-Dichloropropane
Concen: 1.950 ug/L
RT: 9.37 min Scan# 1224
Delta R.T. -0.00 min
Lab File: VW013322.D
Acq: 27 Sep 2019 14:52

Tgt Ion: 63 Resp: 10391
Ion Ratio Lower Upper
63 100
112 3.4 4.1 6.1#





#41

Bromodichloromethane

Concen: 1.919 ug/L

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW013322.D

Acq: 27 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampleId :

MDL07

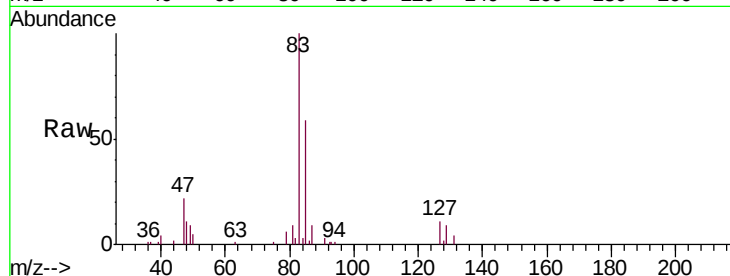
Tgt Ion: 83 Resp: 12547

Ion Ratio Lower Upper

83 100

85 59.5 43.8 81.4

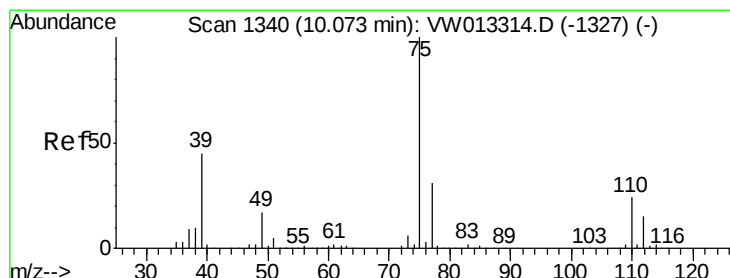
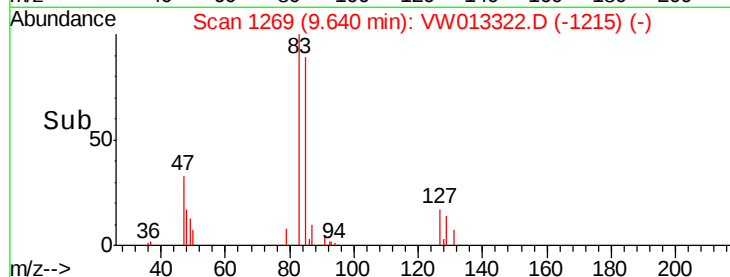
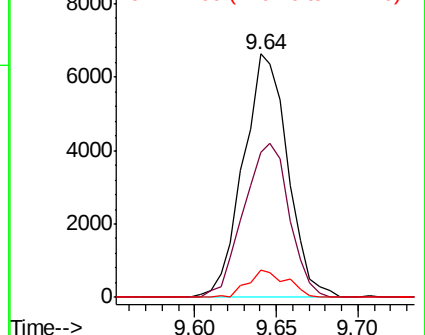
127 11.1 7.0 10.6#



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: 1.932 ug/L

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW013322.D

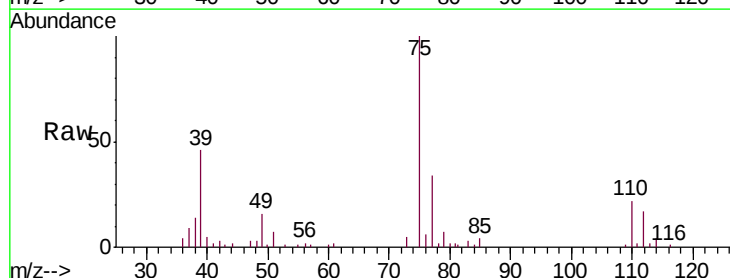
Acq: 27 Sep 2019 14:52

Tgt Ion: 75 Resp: 16448

Ion Ratio Lower Upper

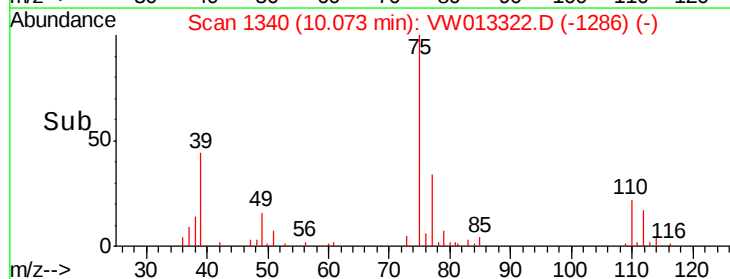
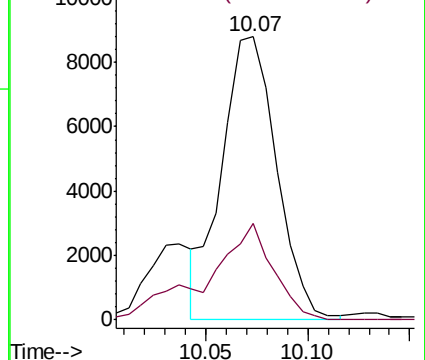
75 100

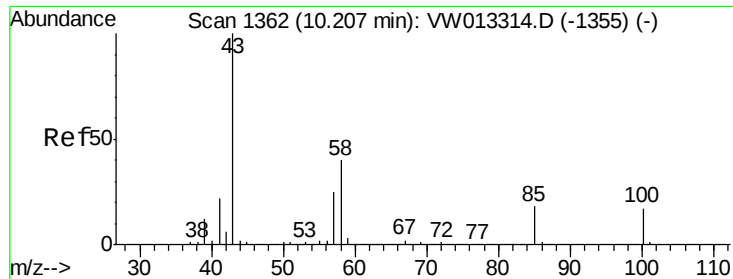
77 34.3 21.3 39.5



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

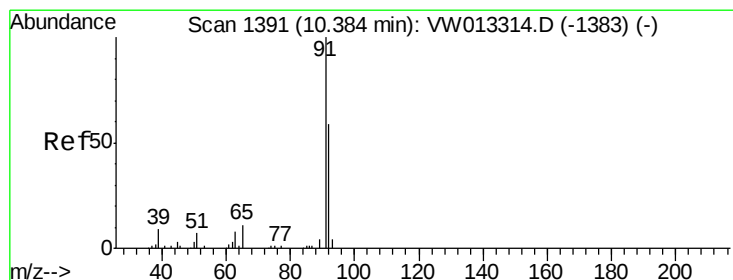
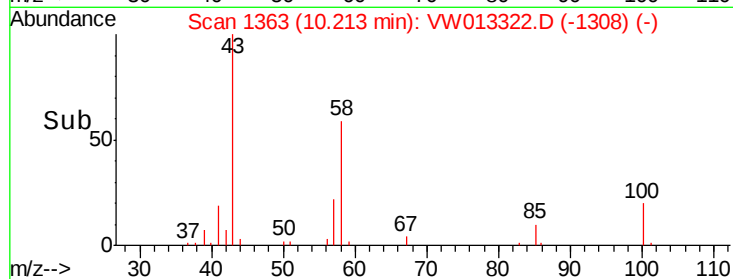
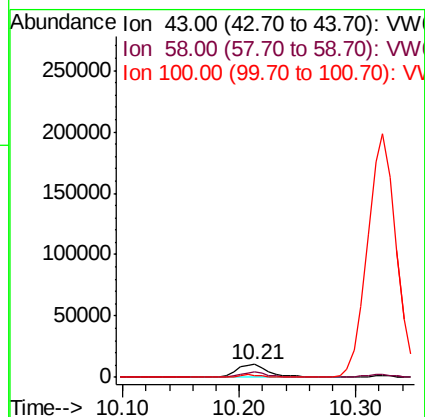
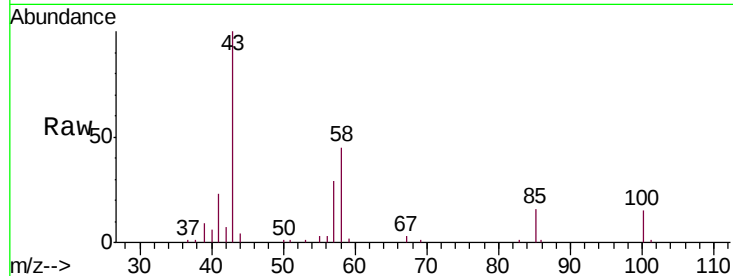




#43
 4-Methyl-2-pentanone
 Concen: 4.992 ug/L
 RT: 10.21 min Scan# 1363
 Delta R.T. 0.01 min
 Lab File: VW013322.D
 Acq: 27 Sep 2019 14:52

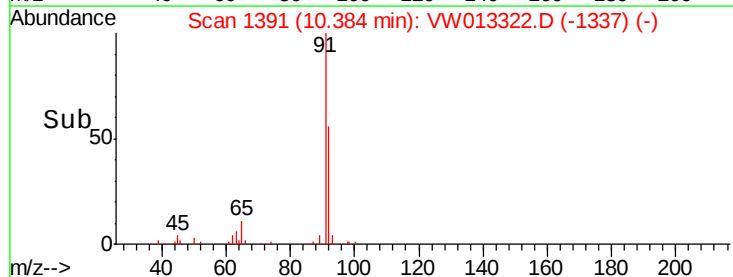
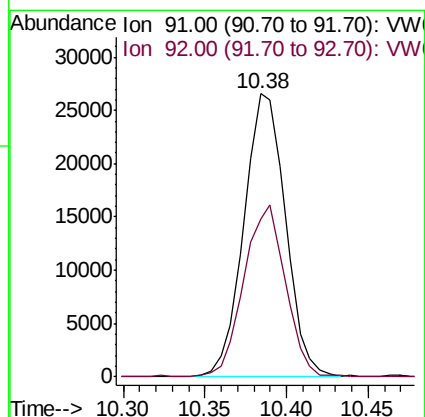
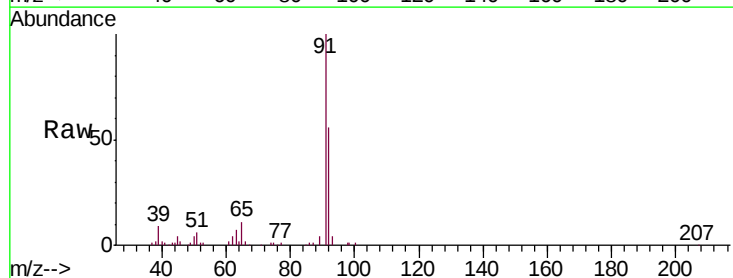
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL07

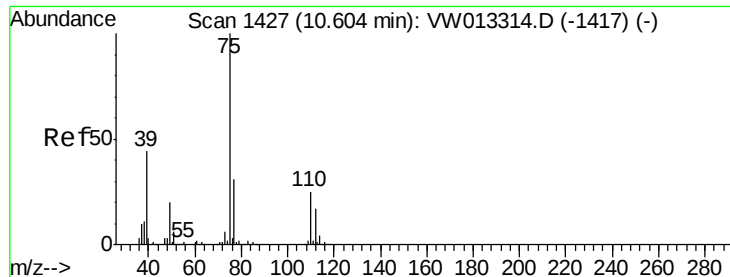
Tgt Ion: 43 Resp: 20367
 Ion Ratio Lower Upper
 43 100
 58 37.7 32.7 49.1
 100 15.3 12.9 19.3



#44
 Toluene
 Concen: 2.006 ug/L
 RT: 10.38 min Scan# 1391
 Delta R.T. -0.00 min
 Lab File: VW013322.D
 Acq: 27 Sep 2019 14:52

Tgt Ion: 91 Resp: 47295
 Ion Ratio Lower Upper
 91 100
 92 56.0 41.5 77.1





#45

trans-1,3-Dichloropropene

Concen: 2.316 ug/L

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW013322.D

Acq: 27 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampleId :

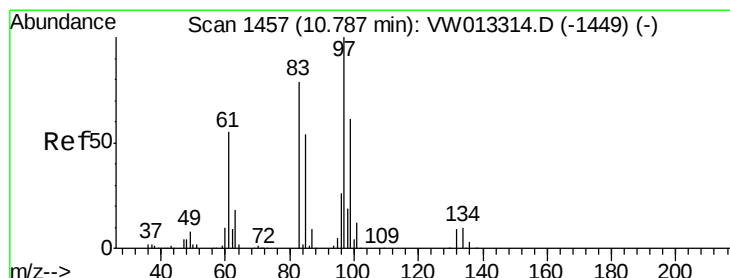
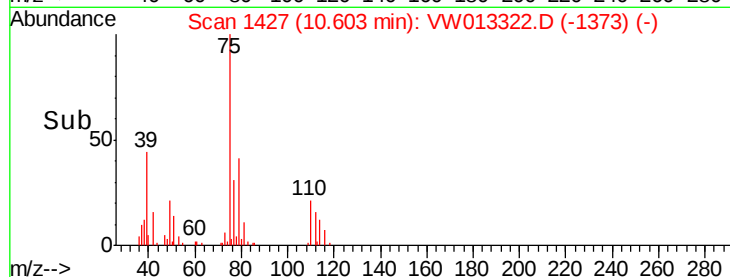
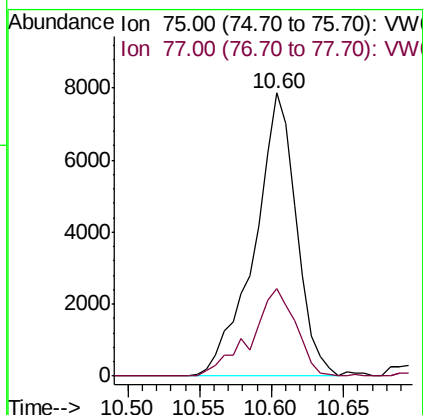
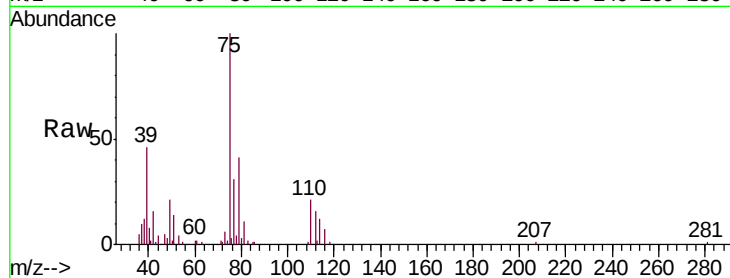
MDL07

Tgt Ion: 75 Resp: 15847

Ion Ratio Lower Upper

75 100

77 30.8 20.5 38.1



#46

1,1,2-Trichloroethane

Concen: 1.943 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW013322.D

Acq: 27 Sep 2019 14:52

Tgt Ion: 97 Resp: 8111

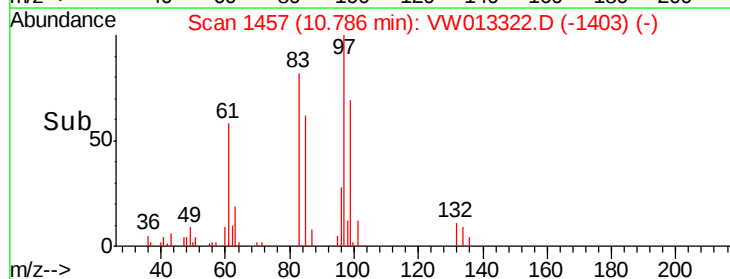
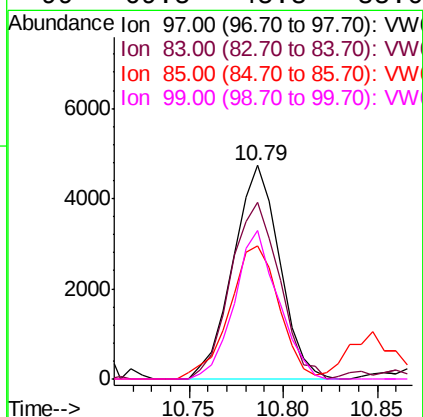
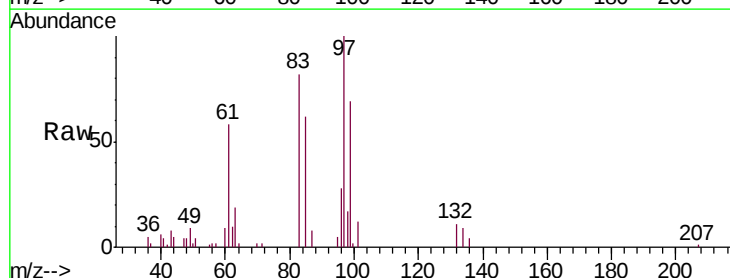
Ion Ratio Lower Upper

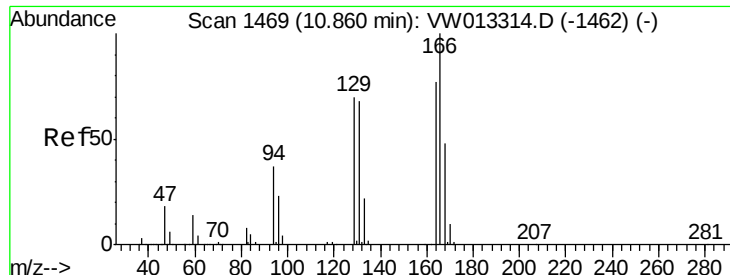
97 100

83 82.5 59.4 110.2

85 62.5 38.7 71.9

99 69.5 45.8 85.0





#47

Tetrachloroethene

Concen: 1.925 ug/L

RT: 10.86 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VW013322.D

Acq: 27 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampleId :

MDL07

Tgt Ion:164 Resp: 9859

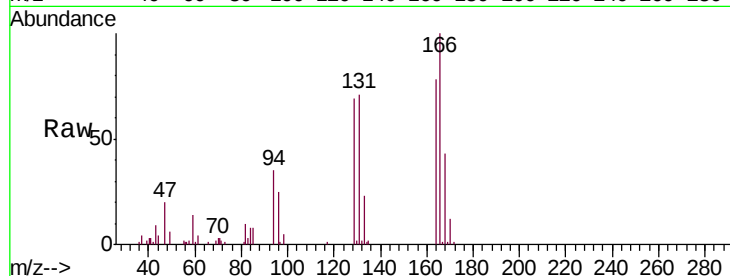
Ion Ratio Lower Upper

164 100

129 88.4 60.5 112.5

131 90.7 60.6 112.6

166 127.5 90.6 168.2

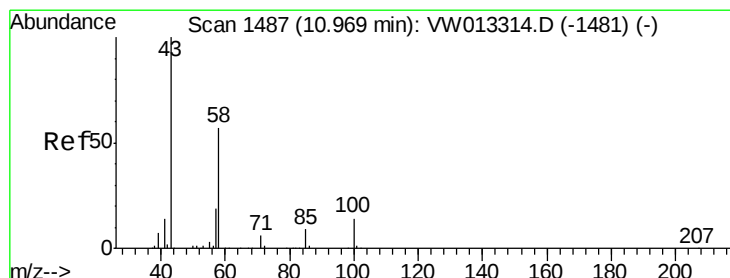
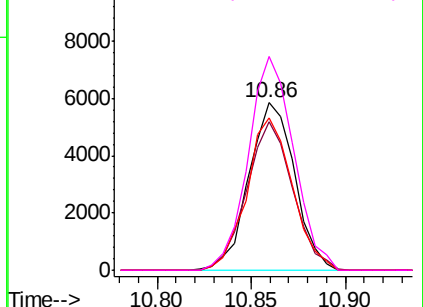
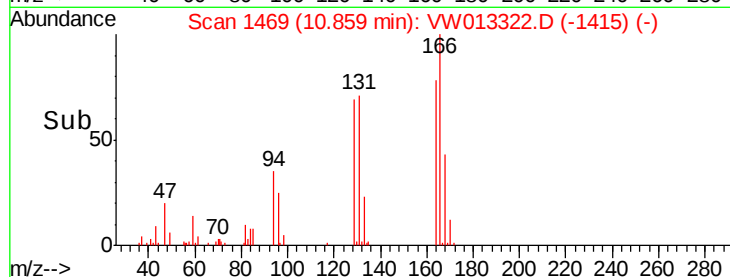


Abundance Ion 164.00 (163.70 to 164.70): V

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: 4.338 ug/L

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW013322.D

Acq: 27 Sep 2019 14:52

Tgt Ion: 43 Resp: 12720

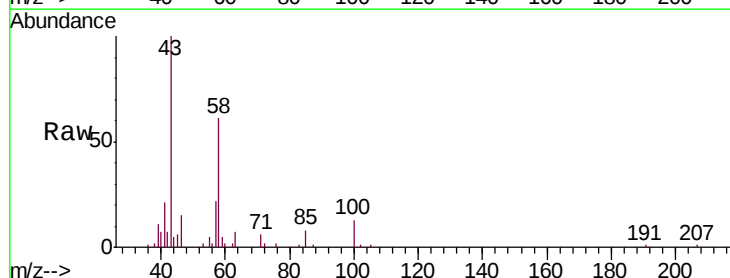
Ion Ratio Lower Upper

43 100

58 58.1 44.3 66.5

57 21.4 15.3 22.9

100 13.8 10.6 15.8

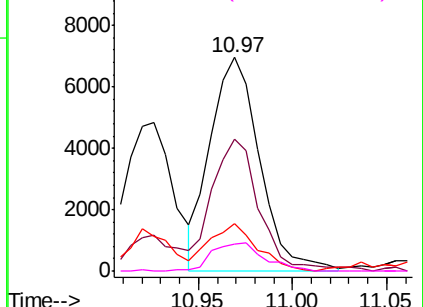
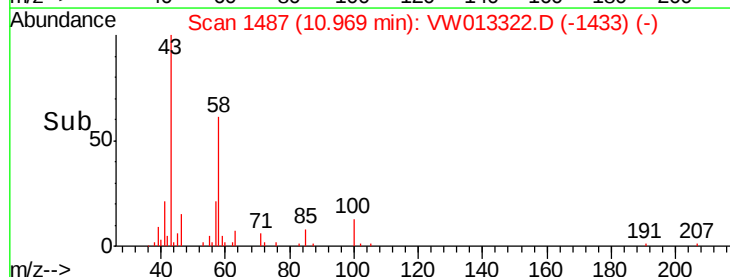


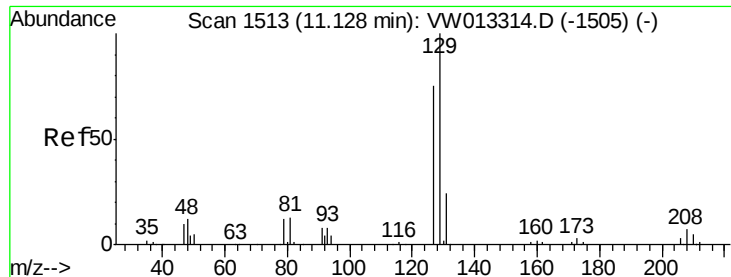
Abundance Ion 43.00 (42.70 to 43.70): VW

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: 1.913 ug/L

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW013322.D

Acq: 27 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampled :

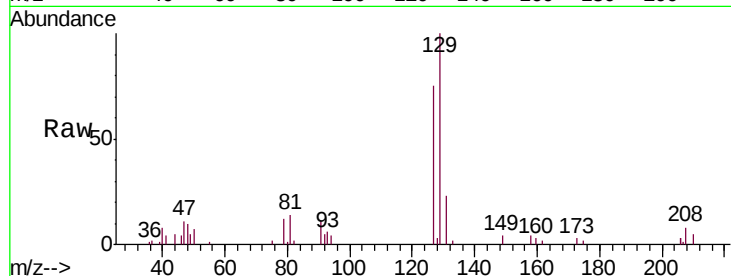
MDL07

Tgt Ion:129 Resp: 9164

Ion Ratio Lower Upper

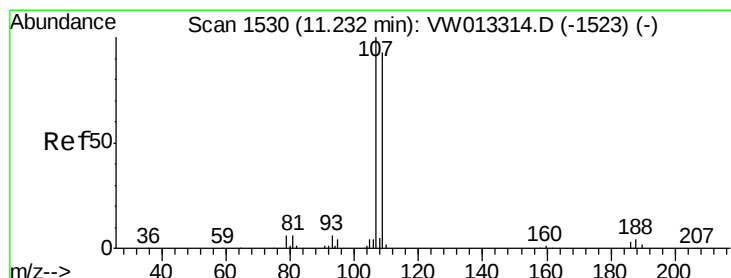
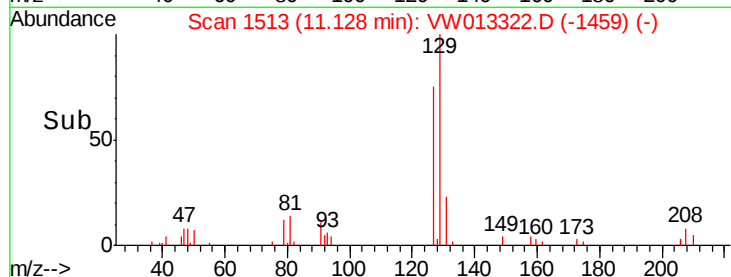
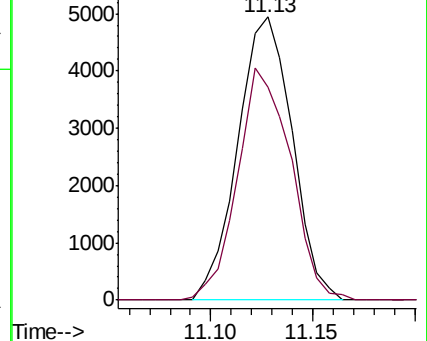
129 100

127 75.1 56.1 104.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#51

1,2-Dibromoethane

Concen: 1.993 ug/L

RT: 11.23 min Scan# 1530

Delta R.T. -0.00 min

Lab File: VW013322.D

Acq: 27 Sep 2019 14:52

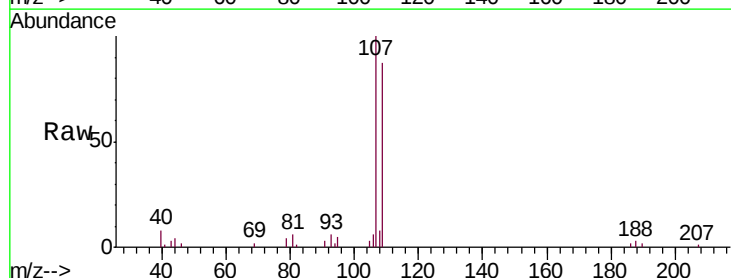
Tgt Ion:107 Resp: 8174

Ion Ratio Lower Upper

107 100

109 87.5 65.5 121.6

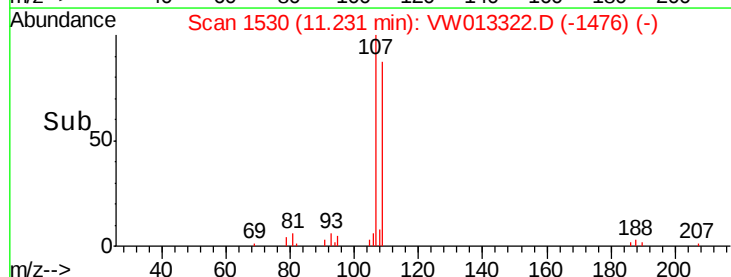
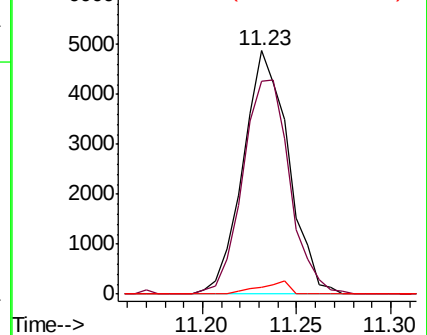
188 2.8 3.0 4.6#

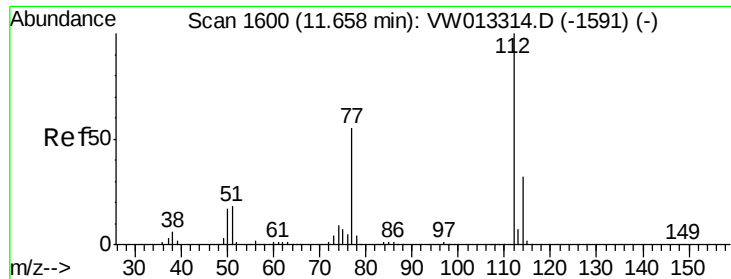


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V

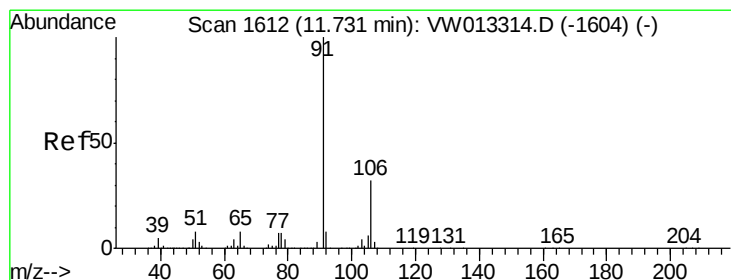
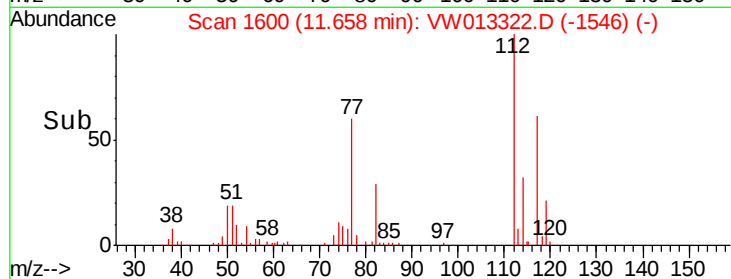
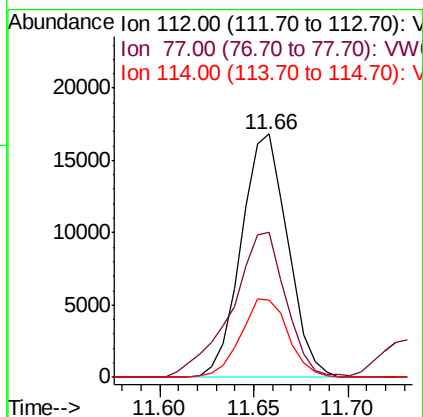
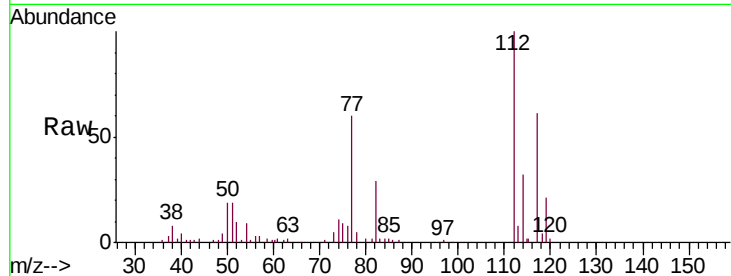




#52
Chlorobenzene
Concen: 1.943 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW013322.D
Acq: 27 Sep 2019 14:52

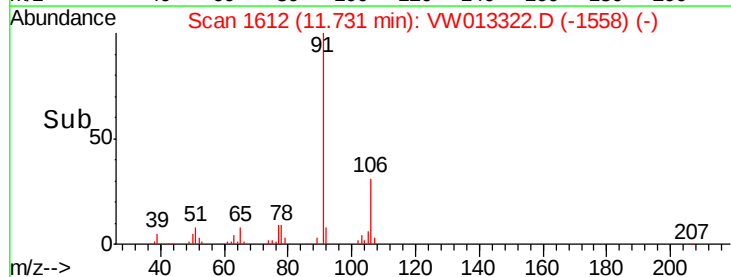
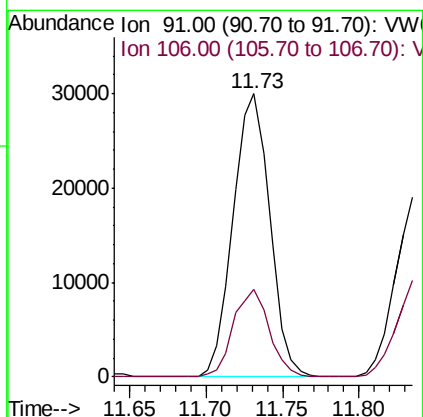
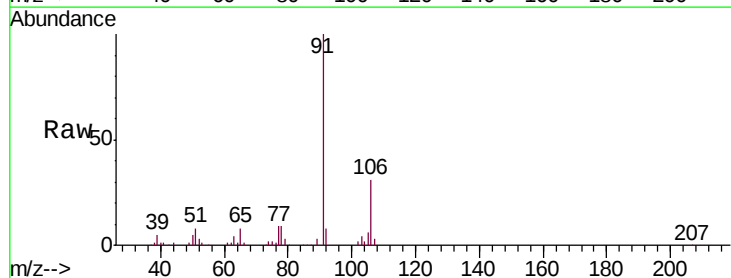
Instrument :
MSVOA_W
ClientSampled :
MDL07

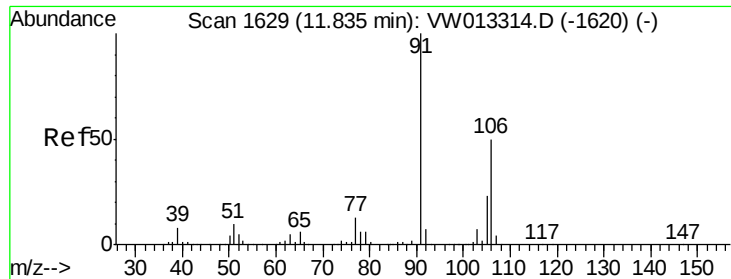
Tgt Ion: 112 Resp: 28875
Ion Ratio Lower Upper
112 100
77 59.6 46.5 69.7
114 31.7 23.0 42.8



#53
Ethylbenzene
Concen: 1.909 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW013322.D
Acq: 27 Sep 2019 14:52

Tgt Ion: 91 Resp: 49916
Ion Ratio Lower Upper
91 100
106 31.1 20.8 38.6





#54

m,p-Xylene

Concen: 1.912 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VW013322.D

Acq: 27 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampleId :

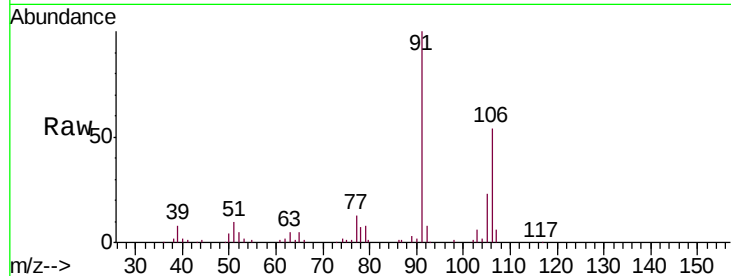
MDL07

Tgt Ion:106 Resp: 19195

Ion Ratio Lower Upper

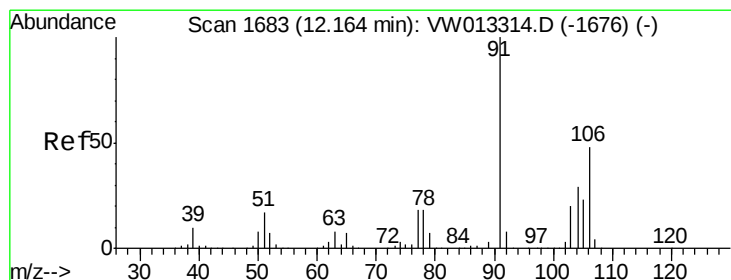
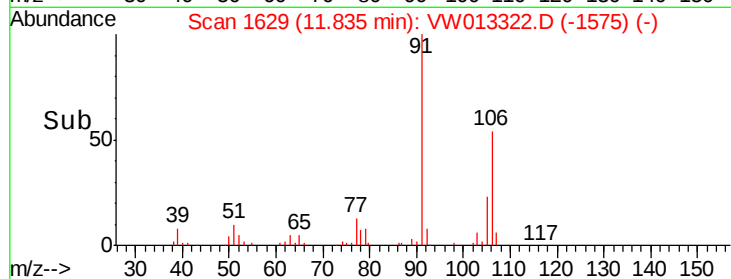
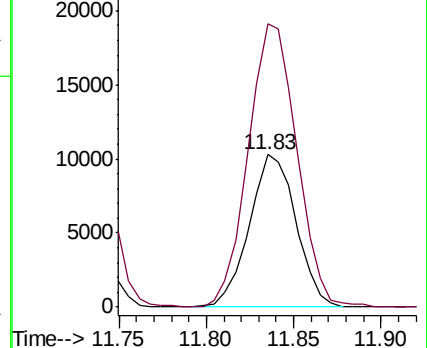
106 100

91 185.6 138.3 256.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#55

o-xylene

Concen: 1.864 ug/L

RT: 12.16 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VW013322.D

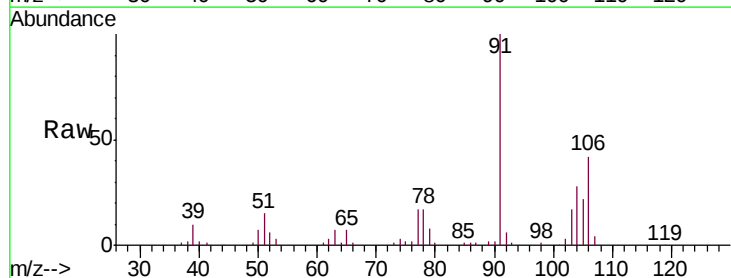
Acq: 27 Sep 2019 14:52

Tgt Ion:106 Resp: 17657

Ion Ratio Lower Upper

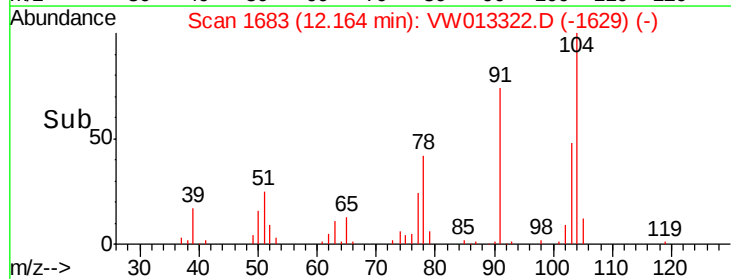
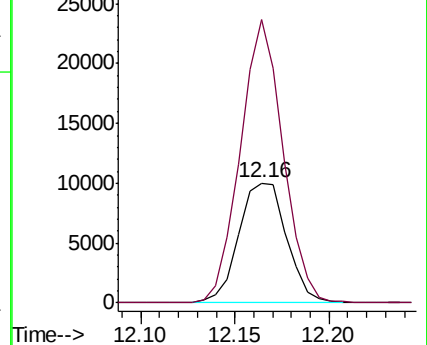
106 100

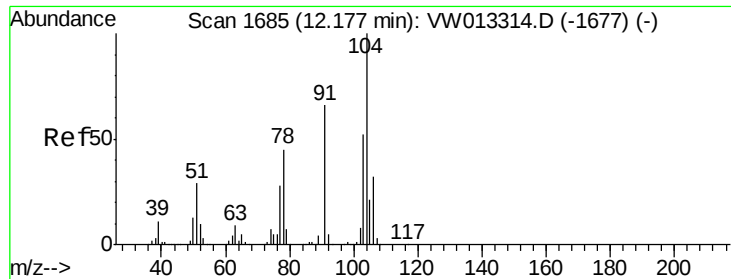
91 235.6 145.9 271.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW





#56

Styrene

Concen: 1.802 ug/L

RT: 12.18 min Scan# 1685

Delta R.T. -0.00 min

Lab File: VW013322.D

Acq: 27 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampleId :

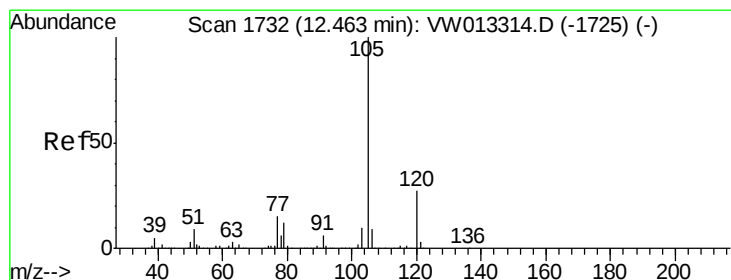
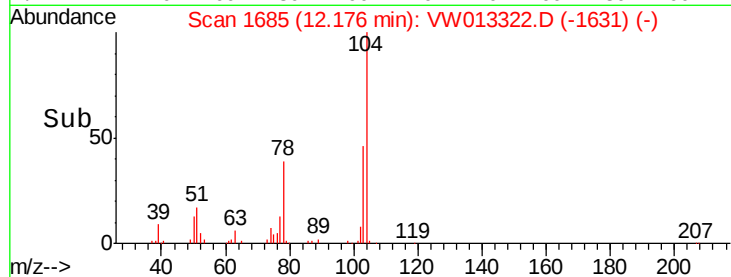
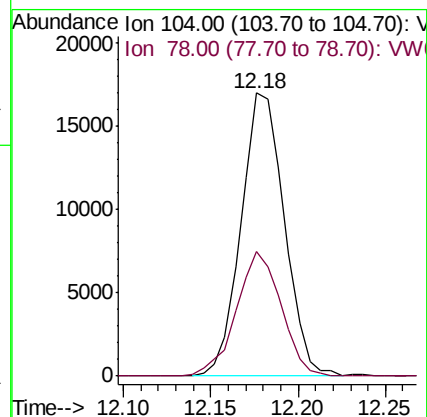
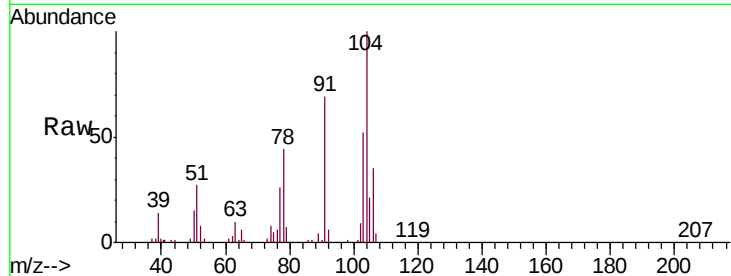
MDL07

Tgt Ion:104 Resp: 29264

Ion Ratio Lower Upper

104 100

78 43.9 29.8 55.4



#57

Isopropylbenzene

Concen: 1.816 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW013322.D

Acq: 27 Sep 2019 14:52

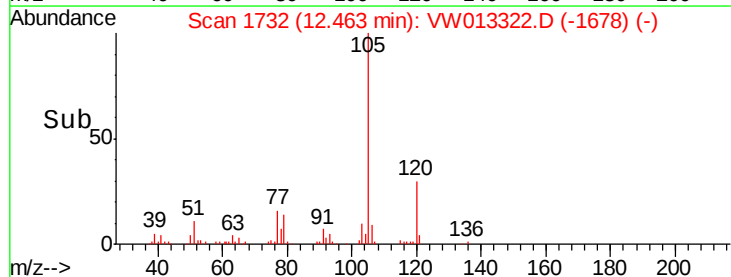
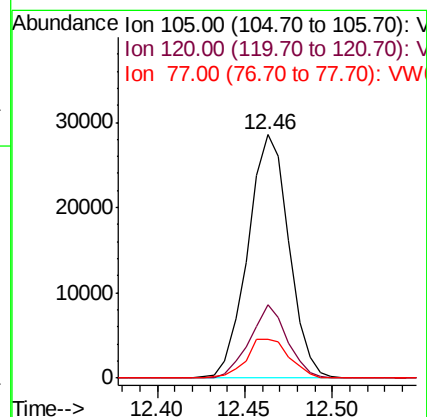
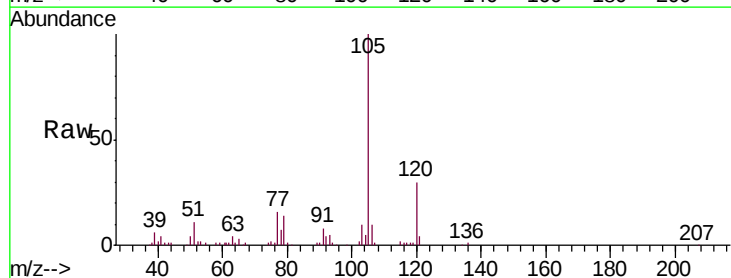
Tgt Ion:105 Resp: 46516

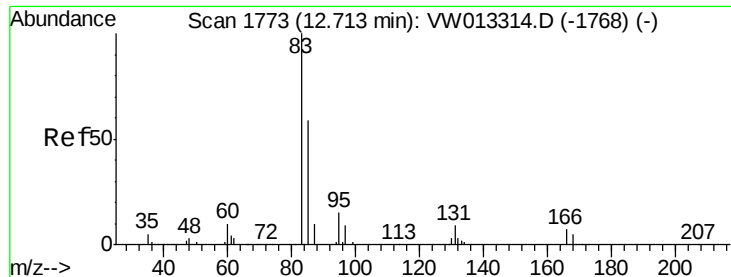
Ion Ratio Lower Upper

105 100

120 27.6 21.4 32.2

77 16.9 11.8 17.6





#58

1,1,2,2-Tetrachloroethane

Concen: 2.300 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW013322.D

Acq: 27 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampleId :

MDL07

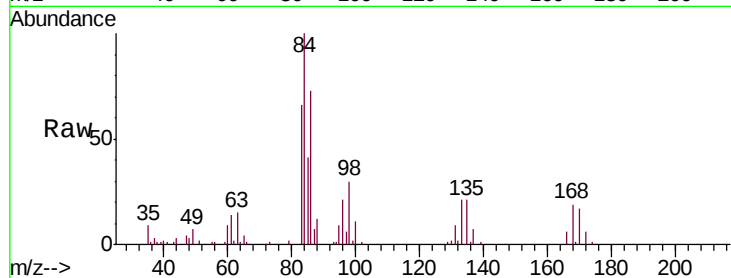
Tgt Ion: 83 Resp: 11831

Ion Ratio Lower Upper

83 100

85 61.9 45.2 84.0

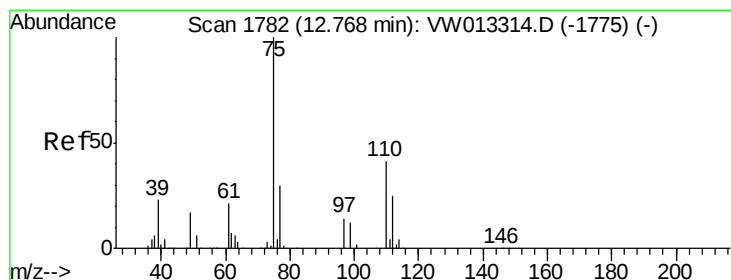
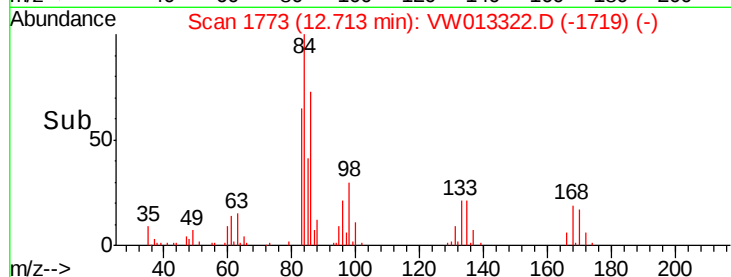
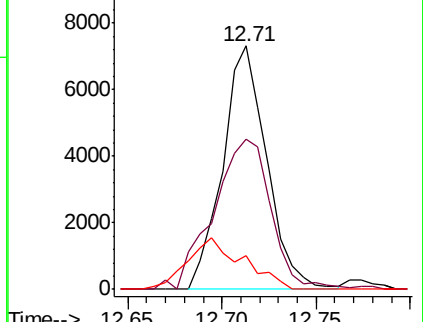
131 14.0 8.9 13.3#



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: 2.171 ug/L

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW013322.D

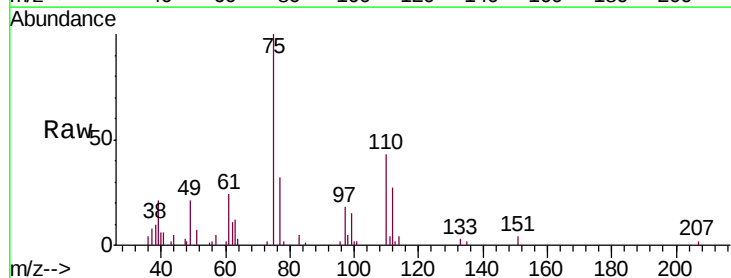
Acq: 27 Sep 2019 14:52

Tgt Ion: 75 Resp: 8335

Ion Ratio Lower Upper

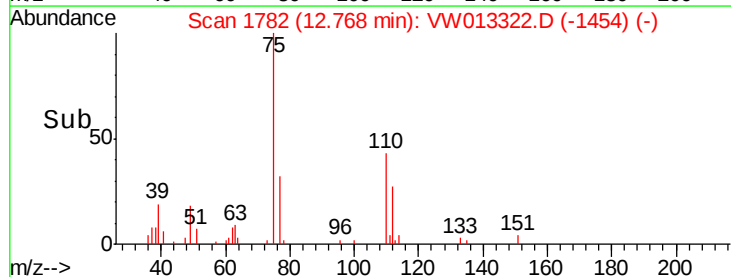
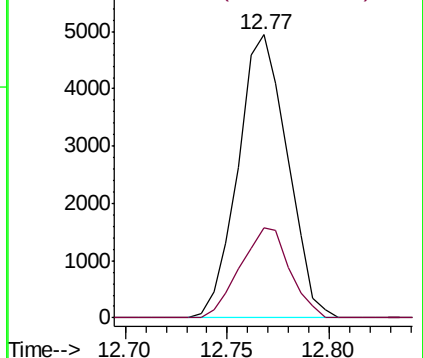
75 100

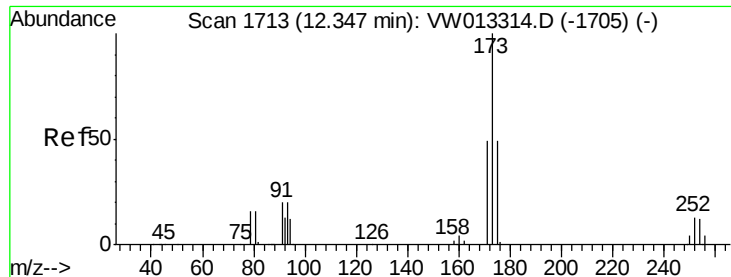
77 31.9 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

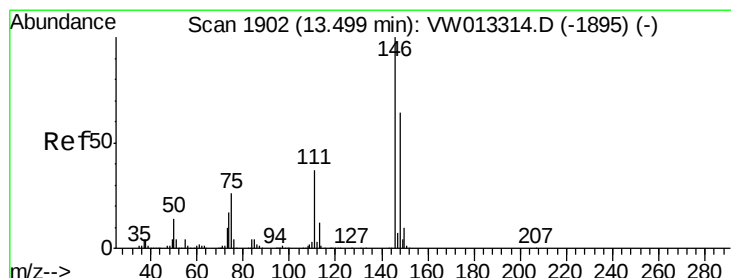
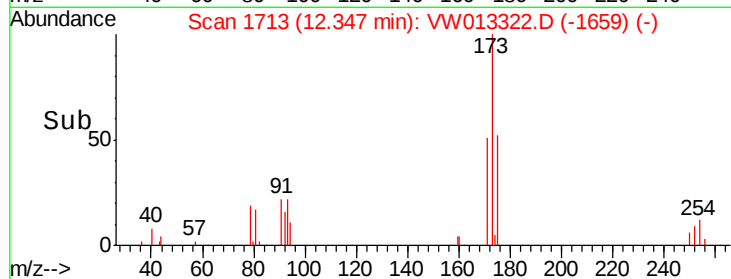
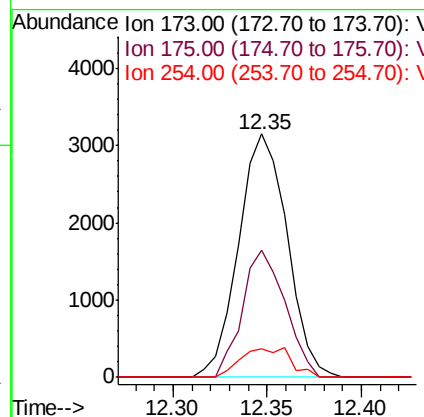
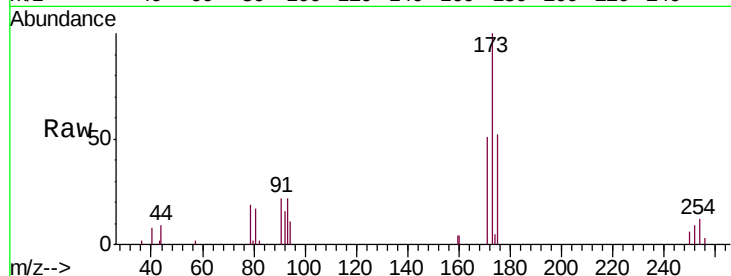




#62
Bromoform
Concen: 1.883 ug/L
RT: 12.35 min Scan# 1713
Delta R.T. -0.00 min
Lab File: VW013322.D
Acq: 27 Sep 2019 14:52

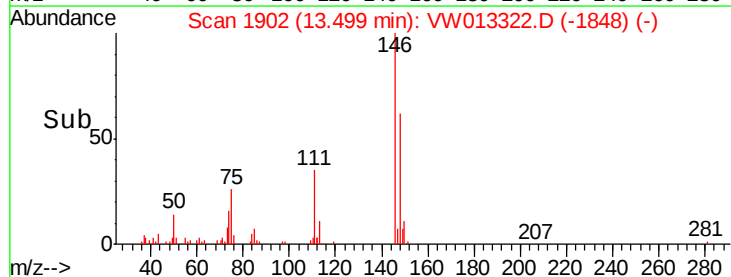
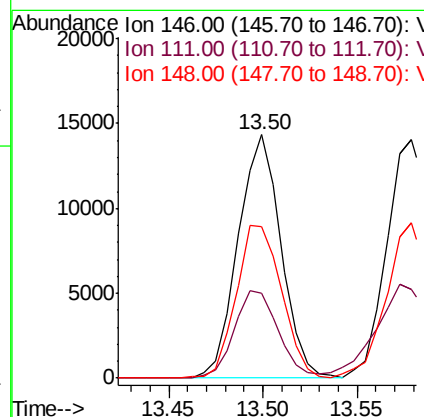
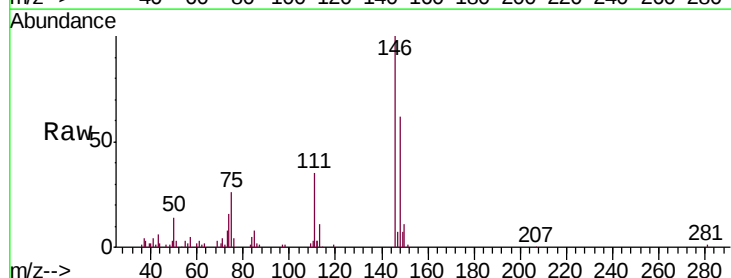
Instrument :
MSVOA_W
ClientSampleId :
MDL07

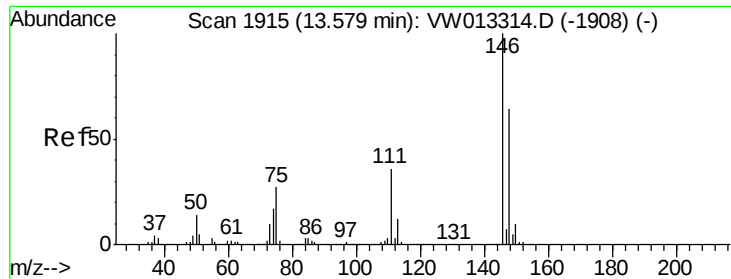
Tgt Ion:173 Resp: 5632
Ion Ratio Lower Upper
173 100
175 46.0 39.3 58.9
254 8.7 9.1 13.7#



#63
1,3-Dichlorobenzene
Concen: 1.950 ug/L
RT: 13.50 min Scan# 1902
Delta R.T. -0.00 min
Lab File: VW013322.D
Acq: 27 Sep 2019 14:52

Tgt Ion:146 Resp: 22692
Ion Ratio Lower Upper
146 100
111 34.7 26.7 49.5
148 62.1 45.0 83.6

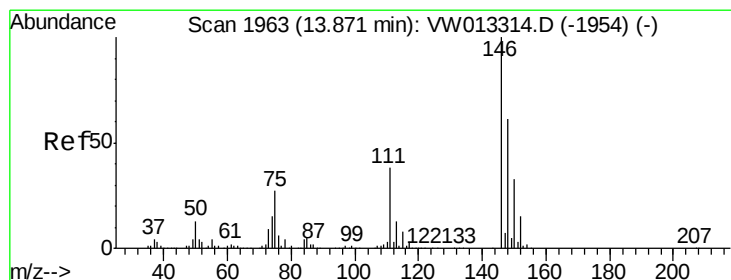
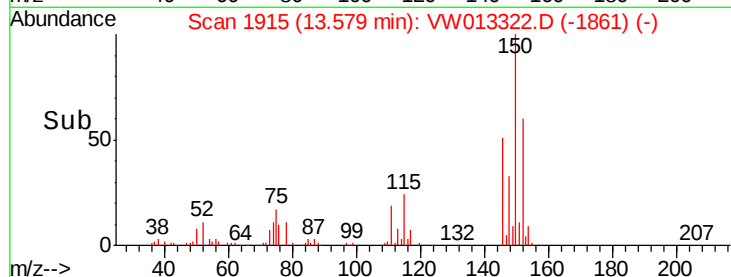
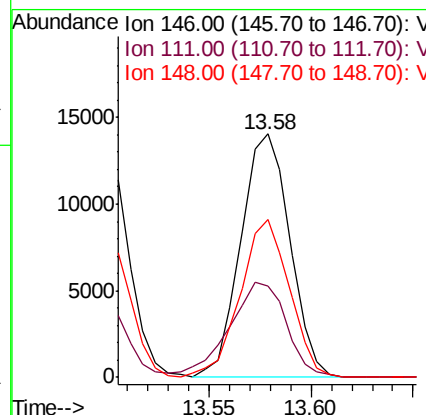
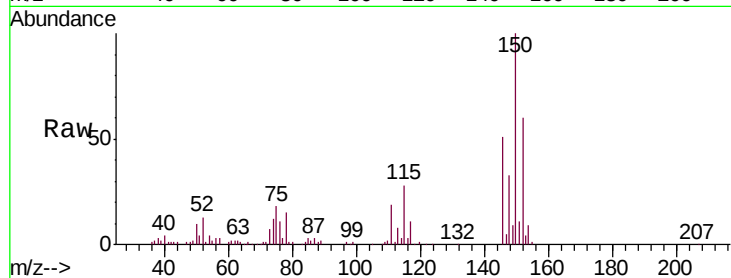




#64
 1,4-Dichlorobenzene
 Concen: 1.998 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW013322.D
 Acq: 27 Sep 2019 14:52

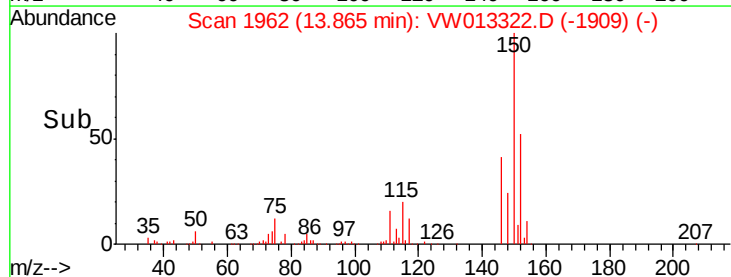
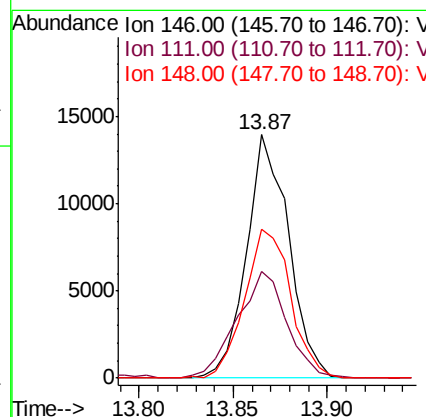
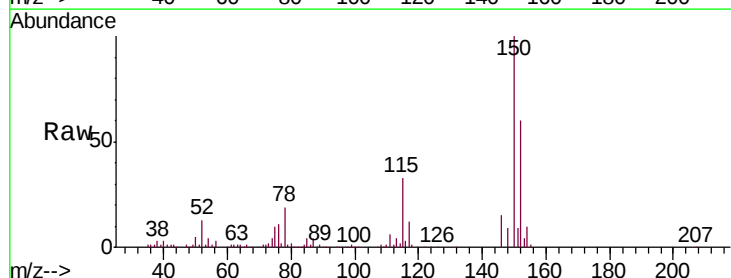
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL07

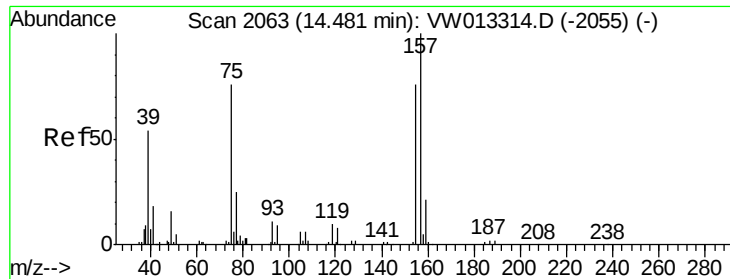
Tgt Ion:146 Resp: 23490
 Ion Ratio Lower Upper
 146 100
 111 37.3 24.2 45.0
 148 65.1 45.1 83.7



#65
 1,2-Dichlorobenzene
 Concen: 2.040 ug/L
 RT: 13.87 min Scan# 1962
 Delta R.T. -0.01 min
 Lab File: VW013322.D
 Acq: 27 Sep 2019 14:52

Tgt Ion:146 Resp: 21597
 Ion Ratio Lower Upper
 146 100
 111 43.6 30.8 46.2
 148 61.4 52.5 78.7

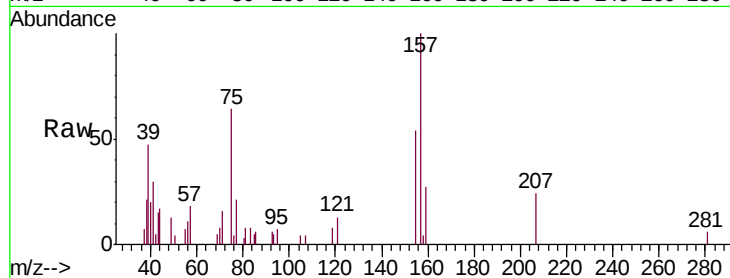




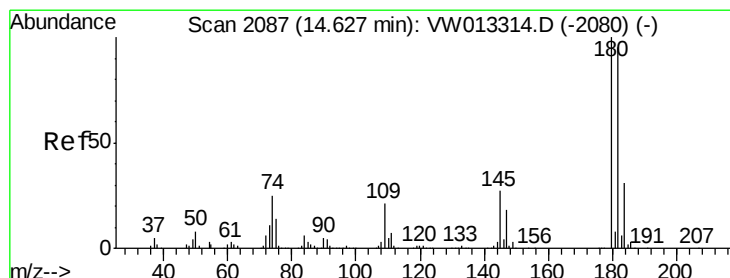
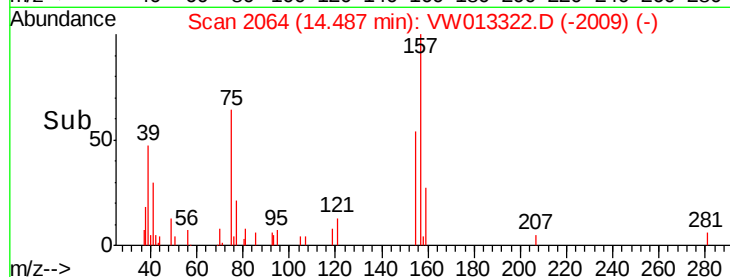
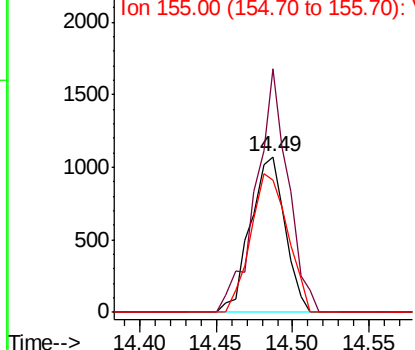
#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.020 ug/L
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.01 min
 Lab File: VW013322.D
 Acq: 27 Sep 2019 14:52

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL07

Tgt Ion: 75 Resp: 1684
 Ion Ratio Lower Upper
 75 100
 157 156.3 97.8 146.8#
 155 84.7 78.4 117.6

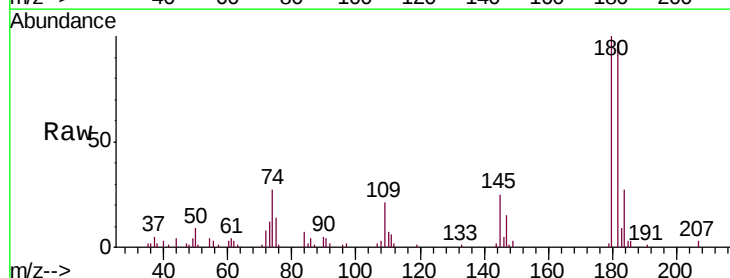


Abundance Ion 75.00 (74.70 to 75.70): VW
 Ion 157.00 (156.70 to 157.70): V
 Ion 155.00 (154.70 to 155.70): V

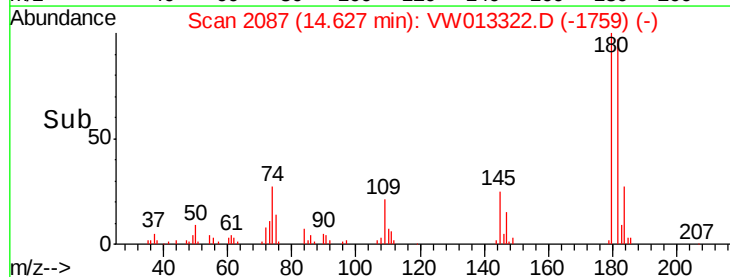
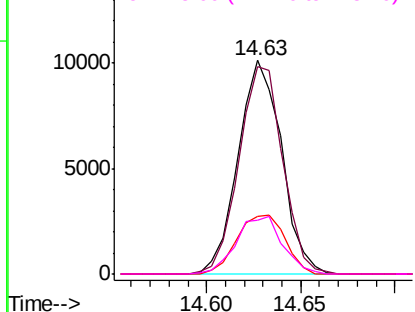


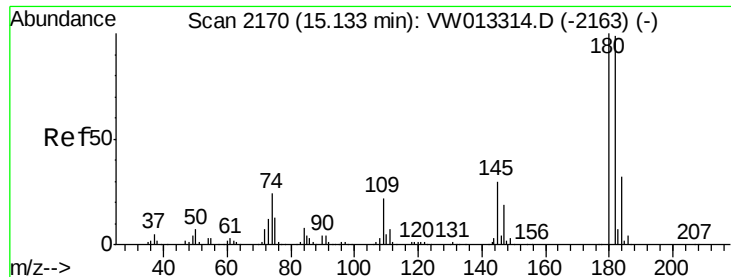
#67
 1,3,5-Trichlorobenzene
 Concen: 1.807 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VW013322.D
 Acq: 27 Sep 2019 14:52

Tgt Ion: 180 Resp: 16189
 Ion Ratio Lower Upper
 180 100
 182 98.0 76.4 114.6
 184 30.6 23.9 35.9
 145 28.9 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: 1.700 ug/L

RT: 15.13 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VW013322.D

Acq: 27 Sep 2019 14:52

Instrument :

MSVOA_W

ClientSampleId :

MDL07

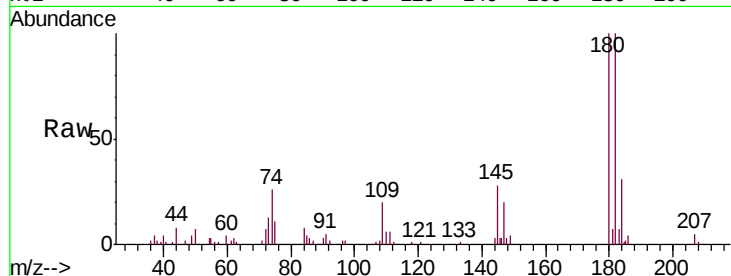
Tgt Ion:180 Resp: 12155

Ion Ratio Lower Upper

180 100

182 96.4 75.9 113.9

145 29.0 23.0 34.4

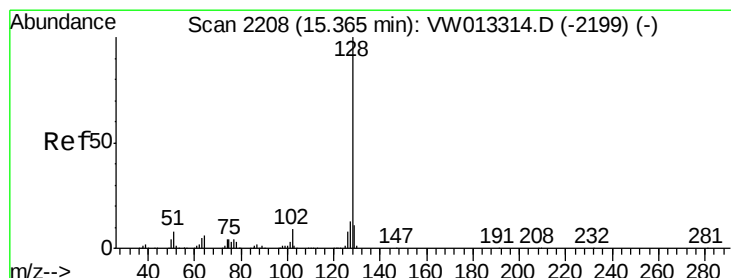
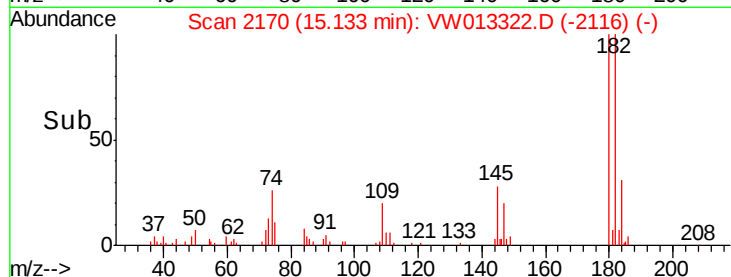
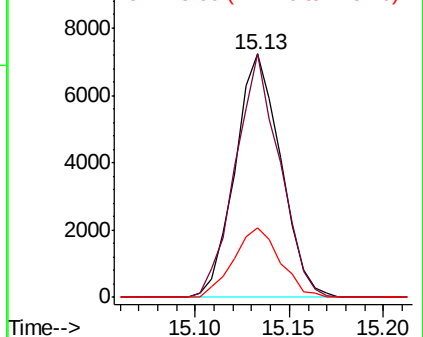


Abundance

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: 1.520 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VW013322.D

Acq: 27 Sep 2019 14:52

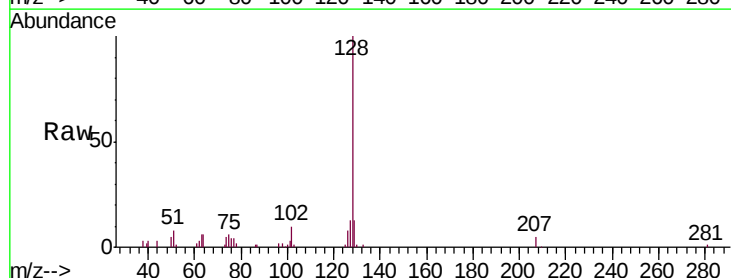
Tgt Ion:128 Resp: 20769

Ion Ratio Lower Upper

128 100

129 11.9 8.7 13.1

127 16.0 10.6 15.8#

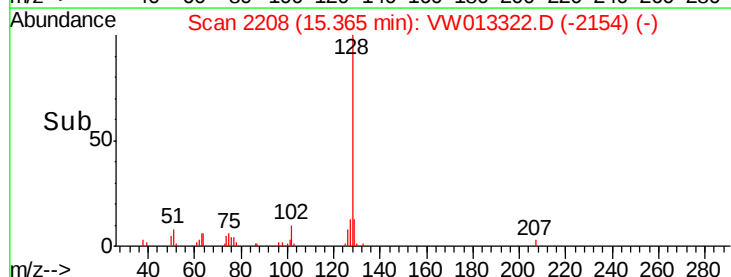
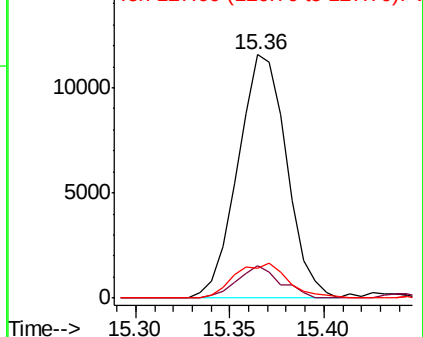


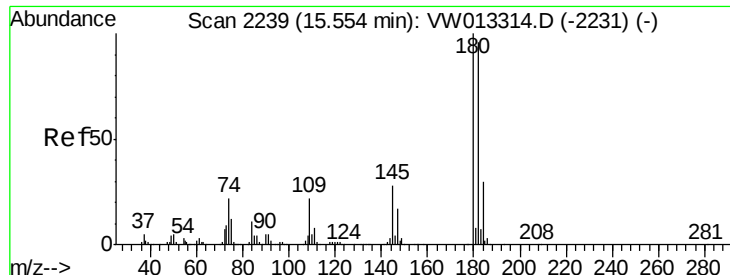
Abundance

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

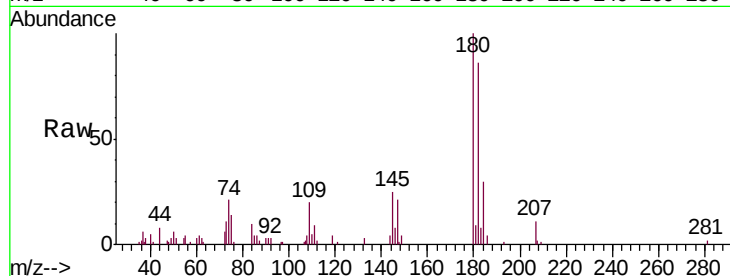




#70
 1,2,3-Trichlorobenzene
 Concen: 1.761 ug/L
 RT: 15.55 min Scan# 2239
 Delta R.T. -0.00 min
 Lab File: VW013322.D
 Acq: 27 Sep 2019 14:52

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL07

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.2	78.2	117.4
145	21.2	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

