

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW041819\
 Data File : VW010040.D
 Acq On : 18 Apr 2019 12:55
 Operator : SY/VA
 Sample : K2241-03
 Misc : 5.00G/5ML/MSVOA_W/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT2-2019

Quant Time: Apr 18 13:15:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W041719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 18 02:23:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	388874	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	646568	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	574392	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	282151	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	238305	49.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.32%	
35) Dibromofluoromethane	7.88	113	193879	47.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.34%	
50) Toluene-d8	10.32	98	763154	49.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.08%	
62) 4-Bromofluorobenzene	12.62	95	260945	46.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.20%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	6250	2.108	ug/l	90
3) Chloromethane	2.21	50	6339	2.138	ug/l	96
4) Vinyl Chloride	2.36	62	7374	2.139	ug/l	91
5) Bromomethane	2.78	94	5164	2.229	ug/l	95
6) Chloroethane	2.92	64	5326	2.365	ug/l	91
7) Trichlorofluoromethane	3.24	101	5011	2.103	ug/l	96
8) Diethyl Ether	3.67	74	6090	3.072	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	4.05	101	10483	2.614	ug/l #	88
10) Methyl Iodide	4.26	142	12283	2.217	ug/l #	92
11) Tert butyl alcohol	5.17	59	4607	16.854	ug/l #	84
12) 1,1-Dichloroethene	4.02	96	9782	2.545	ug/l	95
13) Acrolein	3.88	56	3734	12.984	ug/l #	79
14) Allyl chloride	4.66	41	17283	2.529	ug/l	98
15) Acrylonitrile	5.37	53	12714	12.463	ug/l	99
16) Acetone	4.12	43	21818	19.595	ug/l	96
17) Carbon Disulfide	4.37	76	17347	2.797	ug/l	95
18) Methyl Acetate	4.67	43	10064	3.905	ug/l #	90
19) Methyl tert-butyl Ether	5.42	73	12604	2.524	ug/l	100
20) Methylene Chloride	4.92	84	32155	3.417	ug/l	93
21) trans-1,2-Dichloroethene	5.41	96	9789	2.351	ug/l	94
22) Diisopropyl ether	6.31	45	31457	2.269	ug/l	89
23) Vinyl Acetate	6.25	43	86403	9.900	ug/l	98
24) 1,1-Dichloroethane	6.21	63	22634	2.731	ug/l	96
25) 2-Butanone	7.18	43	17266	11.805	ug/l #	84
26) 2,2-Dichloropropane	7.17	77	12358	2.695	ug/l	99
27) cis-1,2-Dichloroethene	7.16	96	11833	2.585	ug/l	97
28) Bromochloromethane	7.51	49	8207	2.423	ug/l	97
29) Tetrahydrofuran	7.52	42	10471	11.298	ug/l	96
30) Chloroform	7.67	83	22900	2.758	ug/l	94
31) Cyclohexane	7.95	56	25370	3.269	ug/l #	60
32) 1,1,1-Trichloroethane	7.87	97	17550	2.692	ug/l	97
36) 1,1-Dichloropropene	8.07	75	15452	2.340	ug/l	96
37) Ethyl Acetate	7.25	43	8116	2.418	ug/l	97
38) Carbon Tetrachloride	8.06	117	17027	2.642	ug/l	92

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.33	83	17114	3.276	ug/l	95
40) Benzene	8.32	78	46268	2.562	ug/l	98
41) Methacrylonitrile	7.48	41	5121	2.677	ug/l	92
42) 1,2-Dichloroethane	8.40	62	16501	2.659	ug/l	99
43) Isopropyl Acetate	8.42	43	14542	2.312	ug/l #	61
44) Trichloroethene	9.09	130	11786	2.570	ug/l	76
45) 1,2-Dichloropropane	9.37	63	12210	2.572	ug/l	95
46) Dibromomethane	9.46	93	6101	2.480	ug/l	98
47) Bromodichloromethane	9.64	83	16823	2.649	ug/l	94
48) Methyl methacrylate	9.43	41	6792	2.219	ug/l	88
49) 1,4-Dioxane	9.45	88	2191	58.284	ug/l #	86
51) 4-Methyl-2-Pentanone	10.21	43	40575	12.318	ug/l	93
52) Toluene	10.39	92	30192	2.684	ug/l	100
53) t-1,3-Dichloropropene	10.60	75	14934	2.372	ug/l	93
54) cis-1,3-Dichloropropene	10.07	75	17132	2.383	ug/l	93
55) 1,1,2-Trichloroethane	10.79	97	8840	2.574	ug/l	94
56) Ethyl methacrylate	10.65	69	8795	4.388	ug/l	99
57) 1,3-Dichloropropane	10.93	76	15250	2.478	ug/l	95
58) 2-Chloroethyl Vinyl ether	9.92	63	25590	12.472	ug/l	97
59) 2-Hexanone	10.97	43	25492	11.118	ug/l	94
60) Dibromochloromethane	11.13	129	9684	2.440	ug/l	100
61) 1,2-Dibromoethane	11.23	107	7875	2.411	ug/l	100
64) Tetrachloroethene	10.86	164	9909	2.657	ug/l	90
65) Chlorobenzene	11.66	112	32860	2.795	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.73	131	11492	2.733	ug/l	94
67) Ethyl Benzene	11.73	91	52617	2.509	ug/l	98
68) m/p-Xylenes	11.84	106	37255	4.752	ug/l	96
69) o-Xylene	12.17	106	16926	2.371	ug/l	98
70) Styrene	12.18	104	26343	2.140	ug/l	96
71) Bromoform	12.35	173	5585	2.512	ug/l #	98
73) Isopropylbenzene	12.46	105	46726	2.379	ug/l	98
74) N-amyl acetate	12.27	43	11470	2.109	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.71	83	10719	2.763	ug/l	99
76) 1,2,3-Trichloropropane	12.77	75	13908	4.925	ug/l #	100
77) Bromobenzene	12.75	156	12271	2.717	ug/l	99
78) n-propylbenzene	12.80	91	64129	2.635	ug/l	100
79) 2-Chlorotoluene	12.90	91	36443	2.604	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	41225	2.476	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.62	75	143244	119.608	ug/l #	5
82) 4-Chlorotoluene	12.99	91	38019	2.581	ug/l	100
83) tert-Butylbenzene	13.21	119	33733	2.447	ug/l	96
84) 1,2,4-Trimethylbenzene	13.25	105	41156	2.438	ug/l	99
85) sec-Butylbenzene	13.38	105	51802	2.514	ug/l	99
86) p-Isopropyltoluene	13.50	119	43442	2.392	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	25186	2.759	ug/l	96
88) 1,4-Dichlorobenzene	13.58	146	25792	2.830	ug/l	82
89) n-Butylbenzene	13.83	91	46061	2.560	ug/l	96
90) Hexachloroethane	14.10	117	9796	2.816	ug/l	99
91) 1,2-Dichlorobenzene	13.87	146	23446	2.864	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.49	75	2081	2.997	ug/l	91

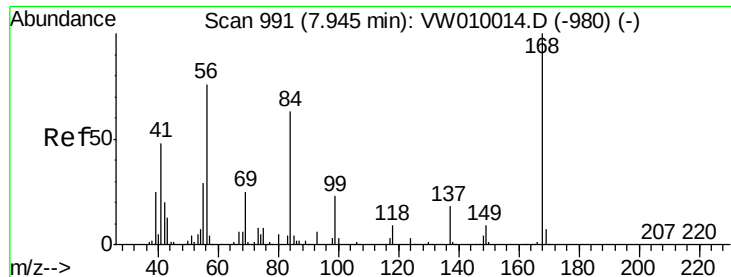
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_W\DATA\VW041819\
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	13478	2.496	ug/l	95
94) Hexachlorobutadiene	15.24	225	9039	2.756	ug/l	98
95) Naphthalene	15.37	128	20946	4.490	ug/l	98
96) 1,2,3-Trichlorobenzene	15.56	180	12095	2.581	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

Instrument :

MSVOA_W

ClientSampleId :

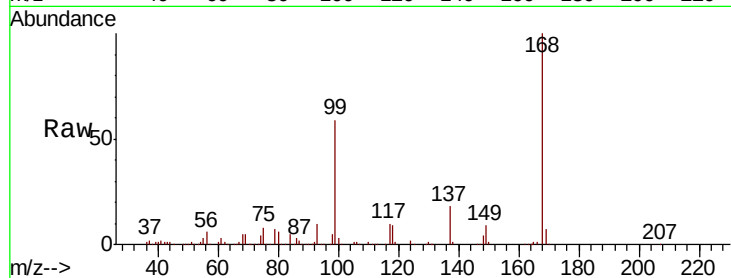
MDL-MDL-SOIL-03-QT2-2019

Tgt Ion:168 Resp: 388874

Ion Ratio Lower Upper

168 100

99 59.2 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

200000

150000

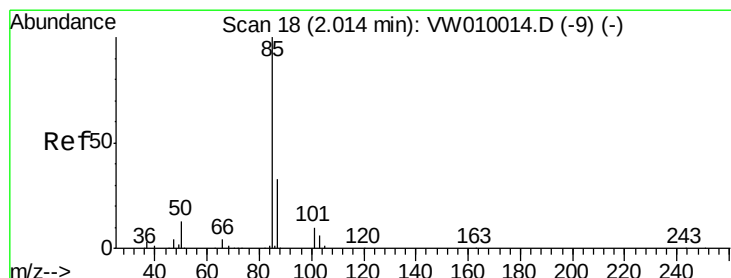
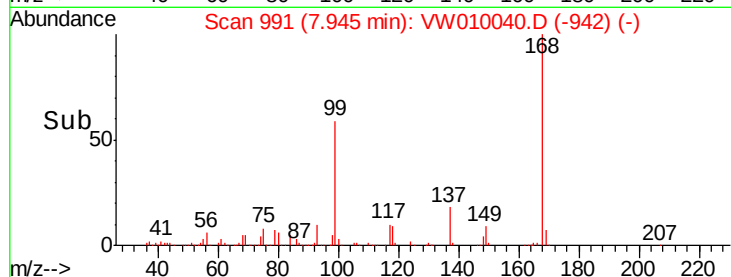
100000

50000

0

7.85 7.90 7.95 8.00 8.05

Time-->



#2

Dichlorodifluoromethane

Concen: 2.108 ug/l

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW010040.D

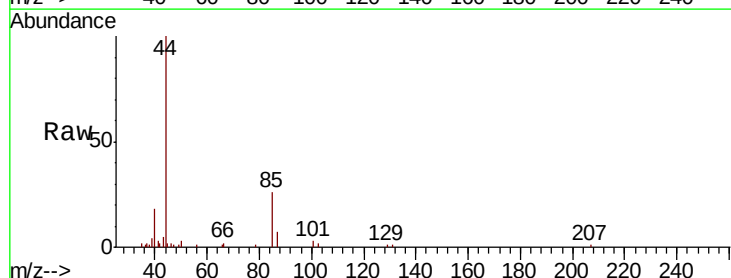
Acq: 18 Apr 2019 12:55

Tgt Ion: 85 Resp: 6250

Ion Ratio Lower Upper

85 100

87 27.2 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

2500

2000

1500

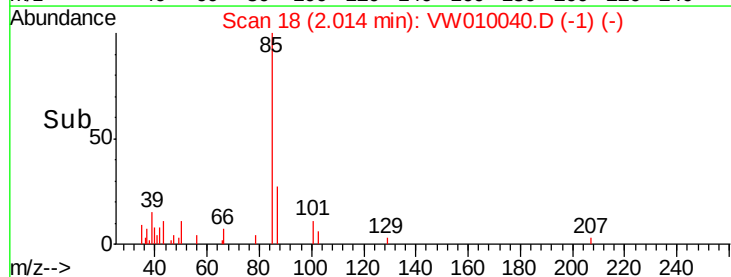
1000

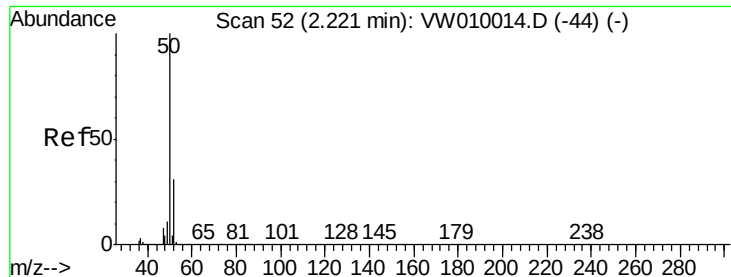
500

0

1.95 2.00 2.05 2.10

Time-->





#3

Chloromethane

Concen: 2.138 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

Instrument :

MSVOA_W

ClientSampleId :

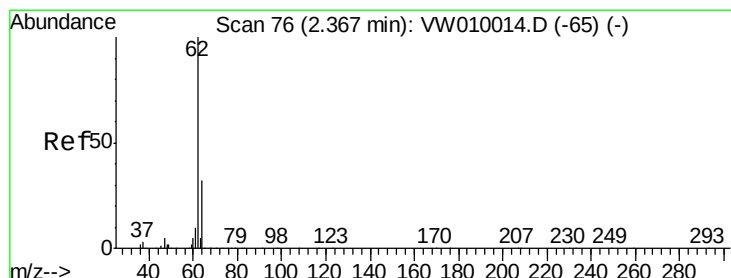
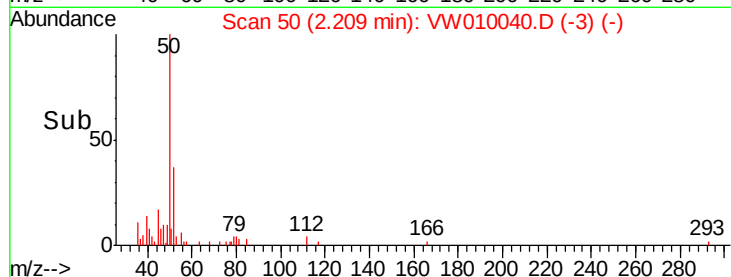
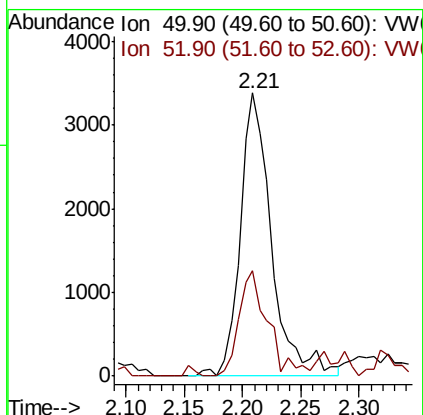
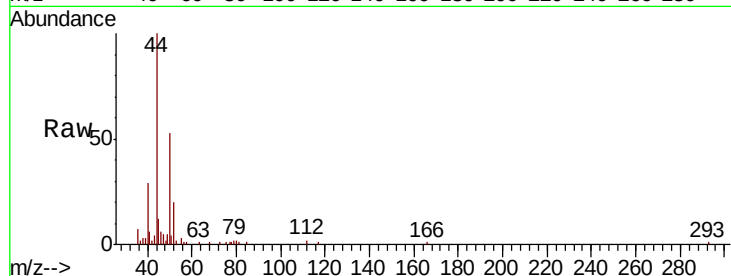
MDL-MDL-SOIL-03-QT2-2019

Tgt Ion: 50 Resp: 6339

Ion Ratio Lower Upper

50 100

52 33.4 25.0 37.6



#4

Vinyl Chloride

Concen: 2.139 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW010040.D

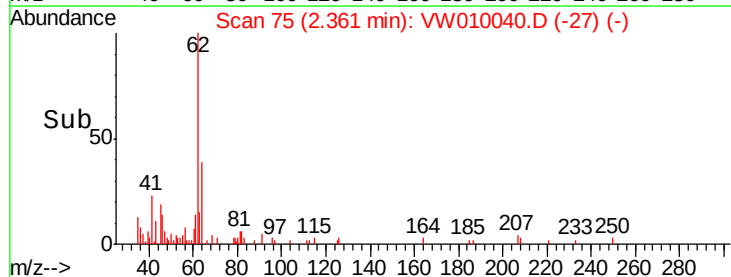
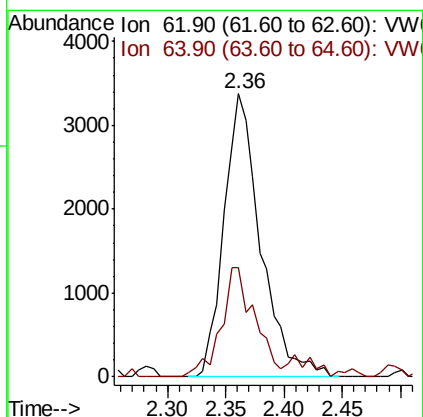
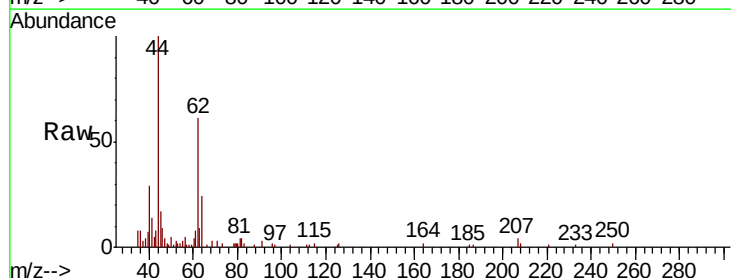
Acq: 18 Apr 2019 12:55

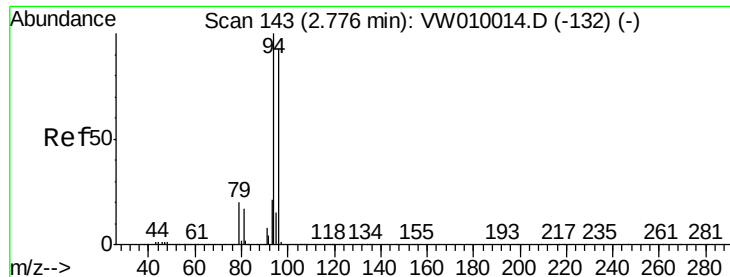
Tgt Ion: 62 Resp: 7374

Ion Ratio Lower Upper

62 100

64 37.2 25.9 38.9





#5

Bromomethane

Concen: 2.229 ug/l

RT: 2.78 min Scan# 143

Delta R.T. -0.00 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

Instrument :

MSVOA_W

ClientSampleId :

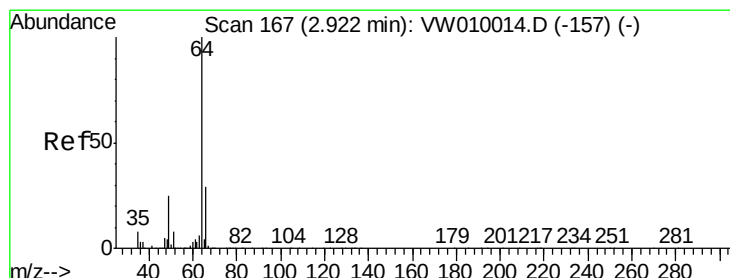
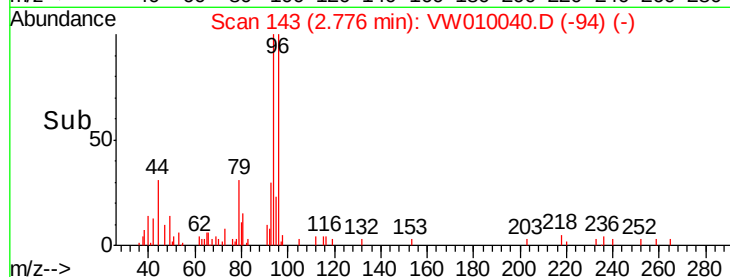
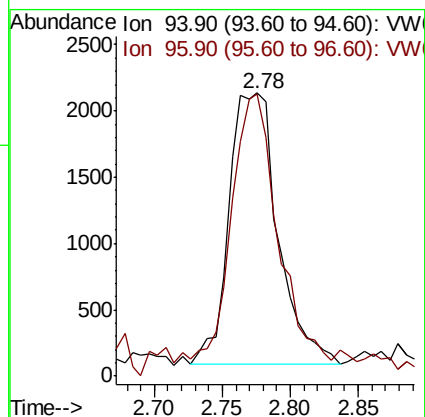
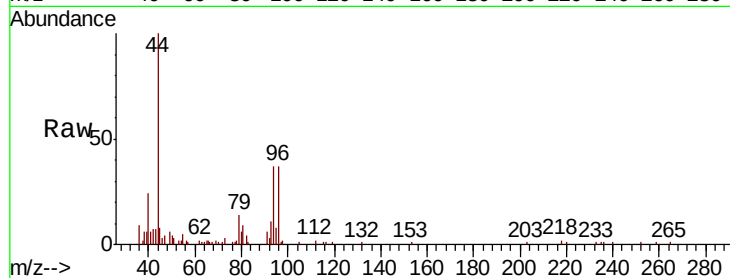
MDL-MDL-SOIL-03-QT2-2019

Tgt Ion: 94 Resp: 5164

Ion Ratio Lower Upper

94 100

96 97.5 74.2 111.2



#6

Chloroethane

Concen: 2.365 ug/l

RT: 2.92 min Scan# 166

Delta R.T. -0.01 min

Lab File: VW010040.D

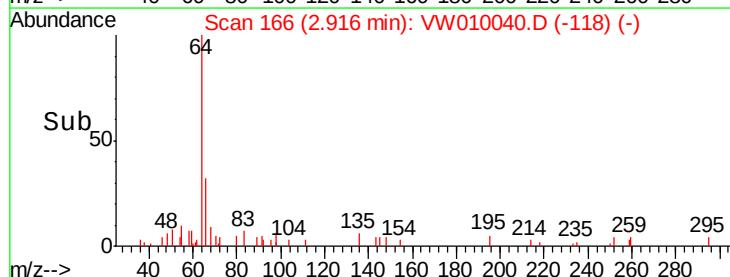
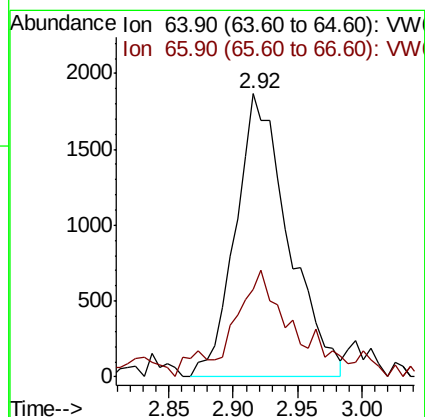
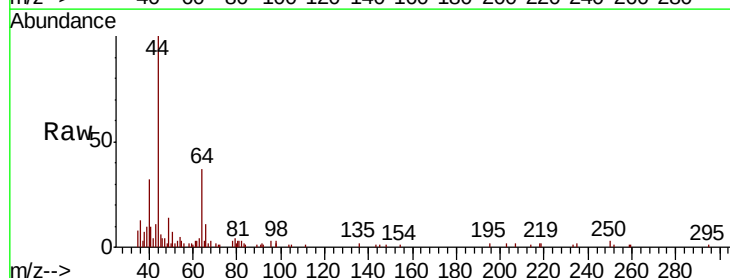
Acq: 18 Apr 2019 12:55

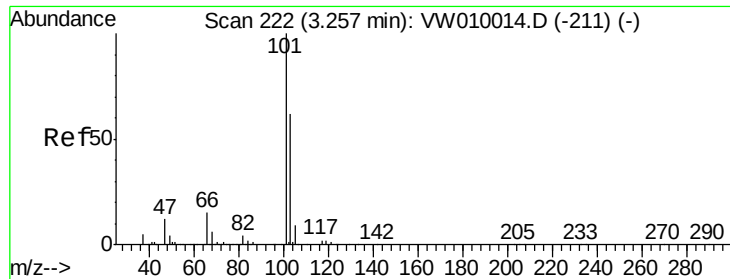
Tgt Ion: 64 Resp: 5326

Ion Ratio Lower Upper

64 100

66 24.6 23.4 35.0



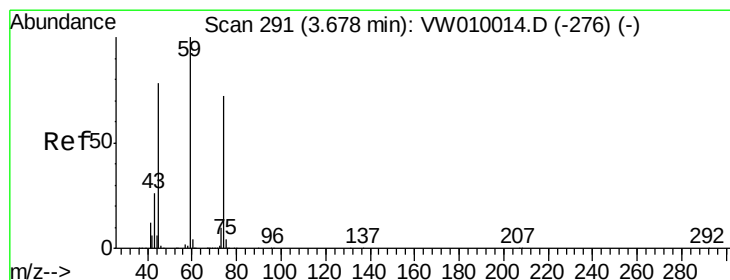
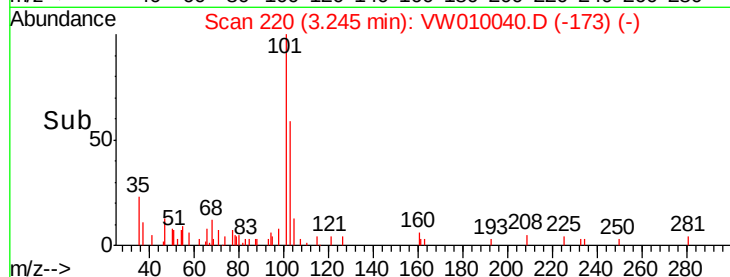
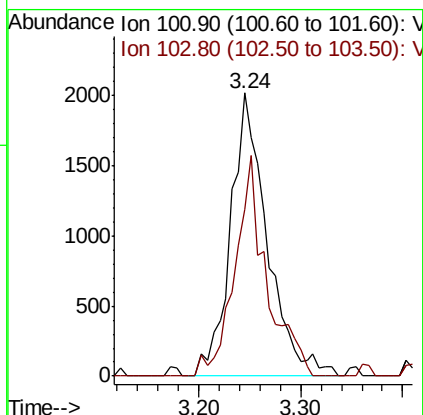
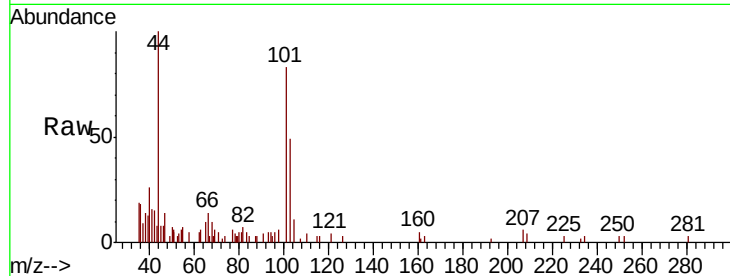


#7

Trichlorofluoromethane
 Concen: 2.103 ug/l
 RT: 3.24 min Scan# 220
 Delta R.T. -0.01 min
 Lab File: VW010040.D
 Acq: 18 Apr 2019 12:55

Instrument :
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 MDL-MDL-SOIL-03-QT2-2019

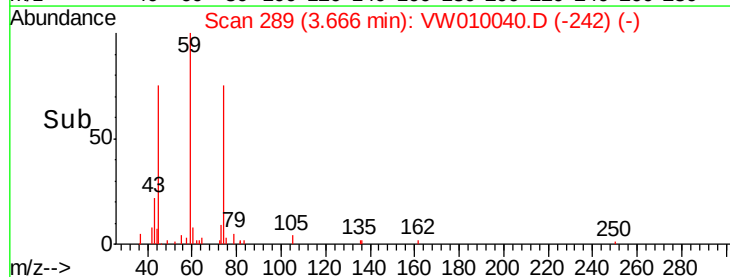
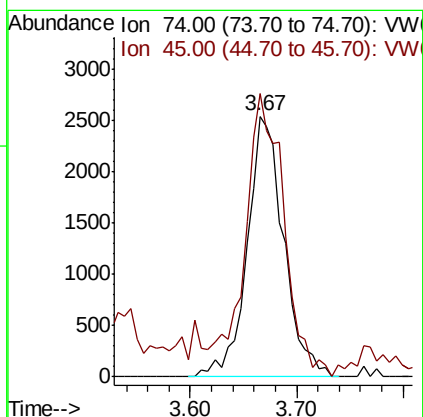
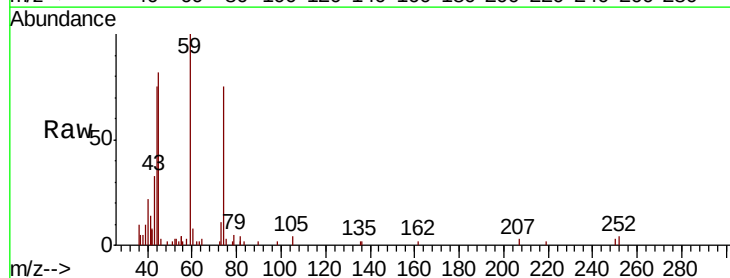
Tgt Ion: 101 Resp: 5011
 Ion Ratio Lower Upper
 101 100
 103 59.2 49.8 74.6

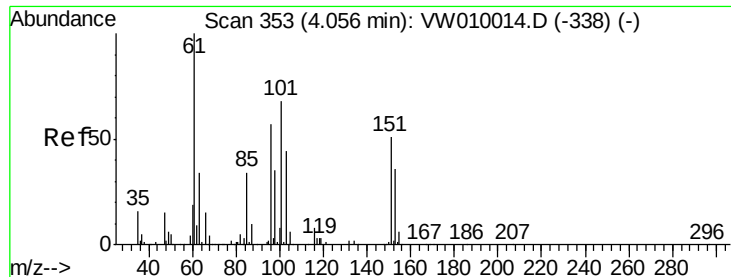


#8

Diethyl Ether
 Concen: 3.072 ug/l
 RT: 3.67 min Scan# 289
 Delta R.T. -0.01 min
 Lab File: VW010040.D
 Acq: 18 Apr 2019 12:55

Tgt Ion: 74 Resp: 6090
 Ion Ratio Lower Upper
 74 100
 45 116.9 56.0 168.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.614 ug/l

RT: 4.05 min Scan# 352

Delta R.T. -0.01 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

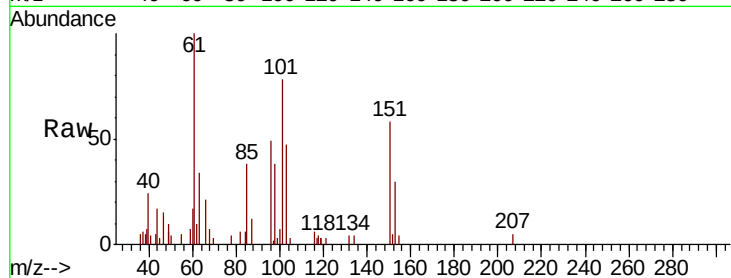
Tgt Ion:101 Resp: 10483

Ion Ratio Lower Upper

101 100

85 28.5 36.3 54.5#

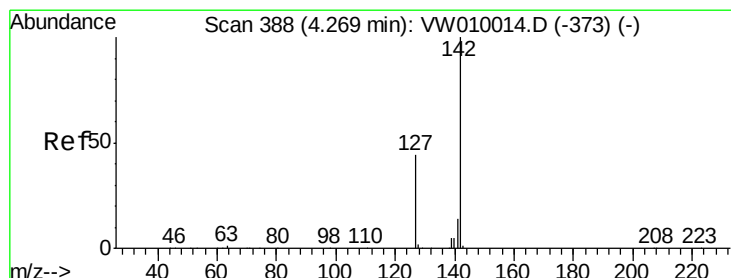
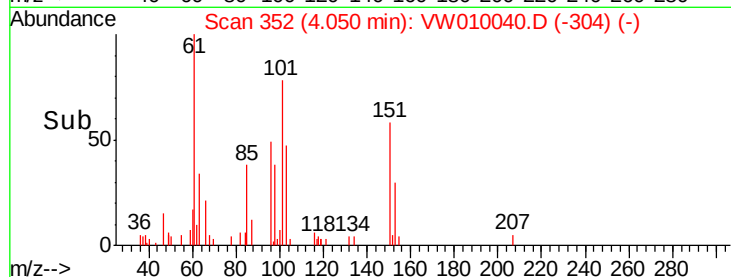
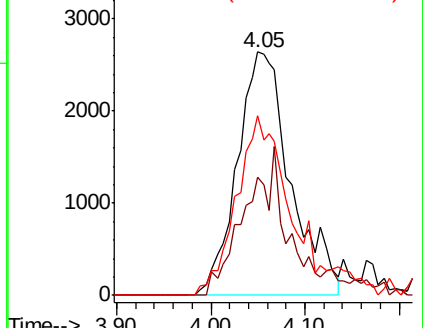
151 72.5 60.2 90.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VW

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 2.217 ug/l

RT: 4.26 min Scan# 386

Delta R.T. -0.01 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

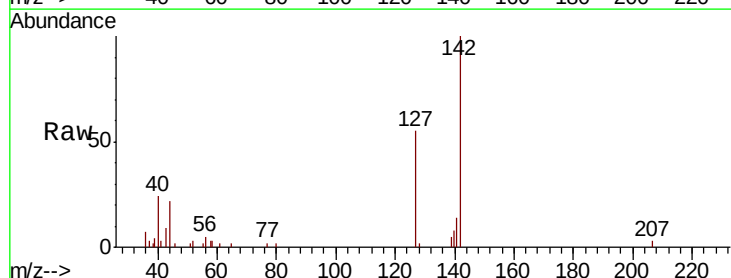
Tgt Ion:142 Resp: 12283

Ion Ratio Lower Upper

142 100

127 51.4 38.1 57.1

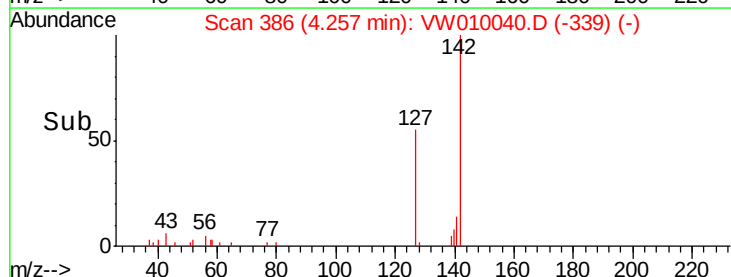
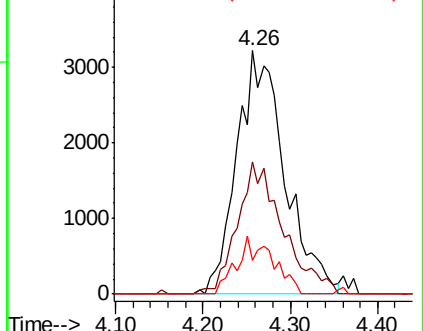
141 8.2 12.2 18.2#

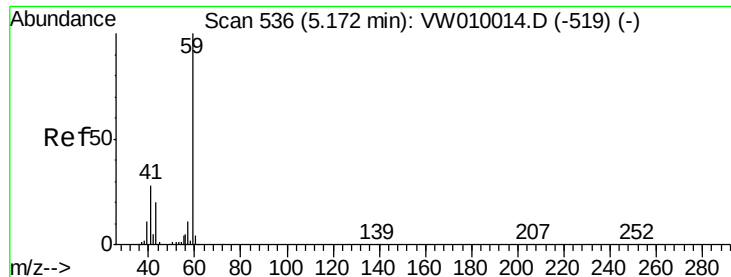


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



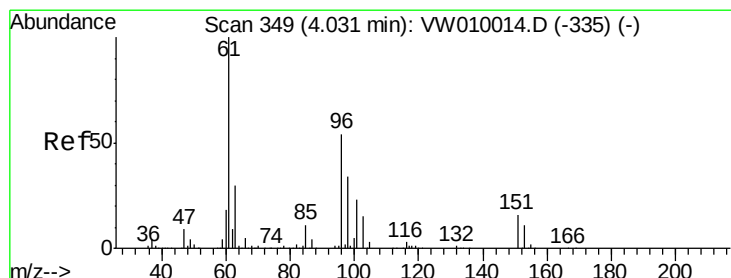
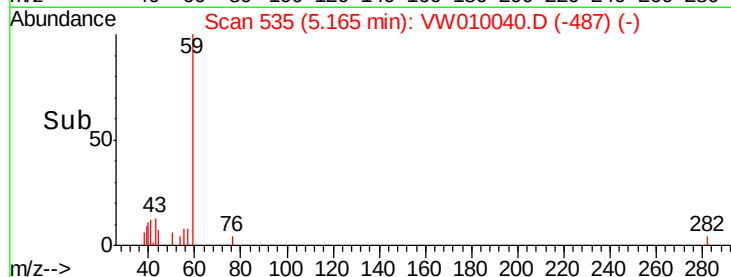
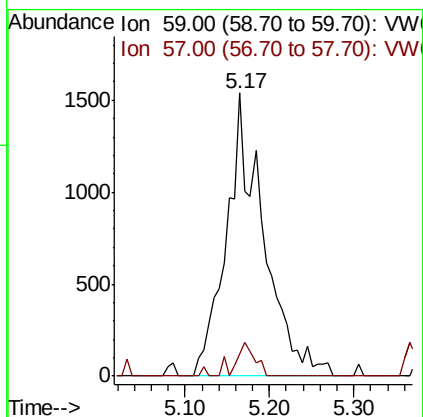
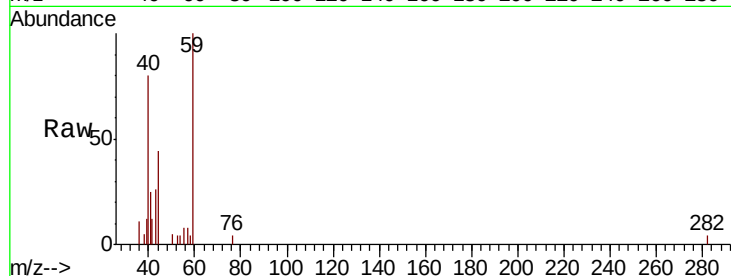


#11

Tert butyl alcohol
 Concen: 16.854 ug/l
 RT: 5.17 min Scan# 535
 Delta R.T. -0.01 min
 Lab File: VW010040.D
 Acq: 18 Apr 2019 12:55

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT2-2019

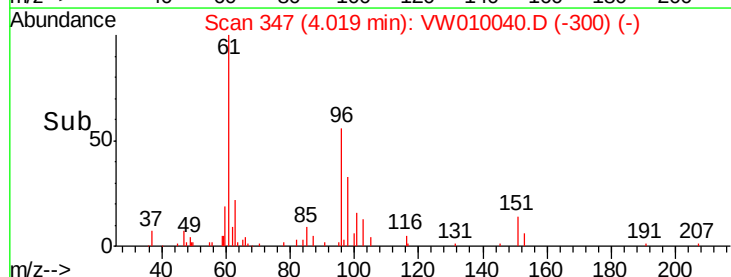
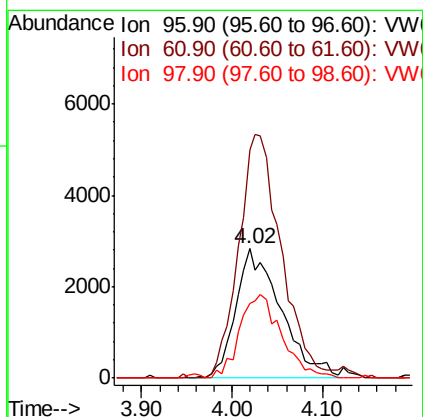
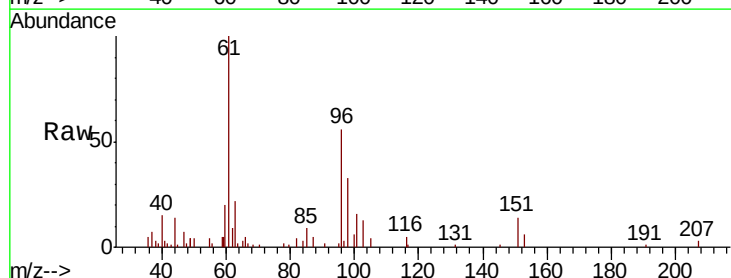
Tgt Ion: 59 Resp: 4607
 Ion Ratio Lower Upper
 59 100
 57 5.2 9.0 13.4#

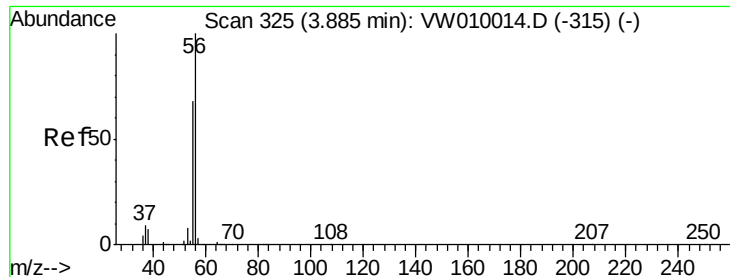


#12

1,1-Dichloroethene
 Concen: 2.545 ug/l
 RT: 4.02 min Scan# 347
 Delta R.T. -0.01 min
 Lab File: VW010040.D
 Acq: 18 Apr 2019 12:55

Tgt Ion: 96 Resp: 9782
 Ion Ratio Lower Upper
 96 100
 61 177.0 147.4 221.2
 98 58.3 49.7 74.5





#13

Acrolein

Concen: 12.984 ug/l

RT: 3.88 min Scan# 324

Delta R.T. -0.01 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

Instrument :

MSVOA_W

ClientSampleId :

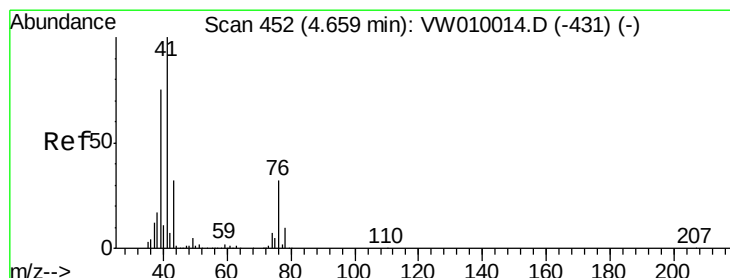
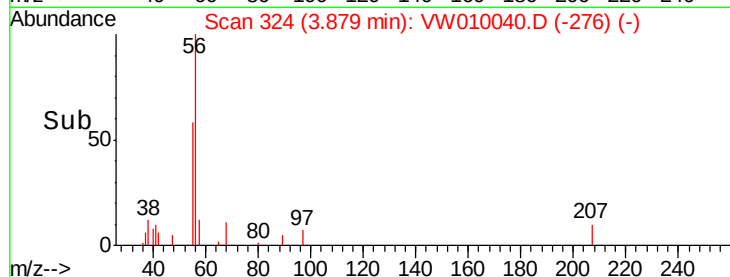
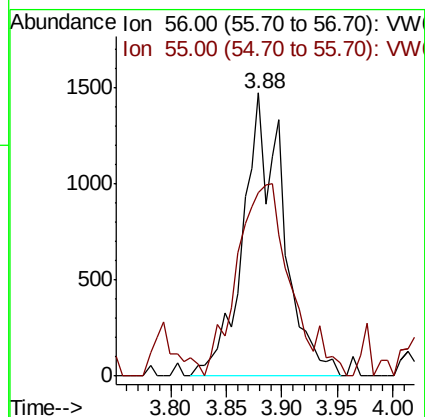
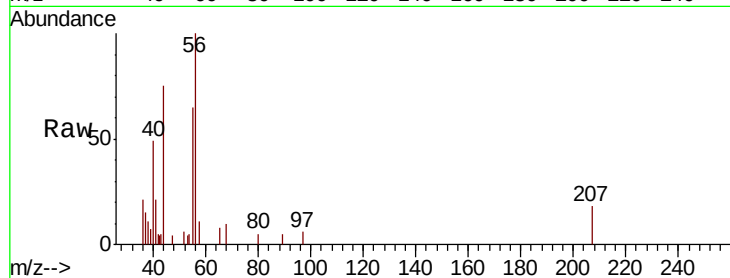
MDL-MDL-SOIL-03-QT2-2019

Tgt Ion: 56 Resp: 3734

Ion Ratio Lower Upper

56 100

55 84.6 54.2 81.2#



#14

Allyl chloride

Concen: 2.529 ug/l

RT: 4.66 min Scan# 452

Delta R.T. -0.00 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

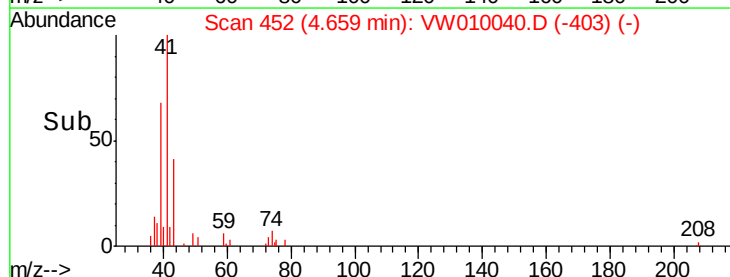
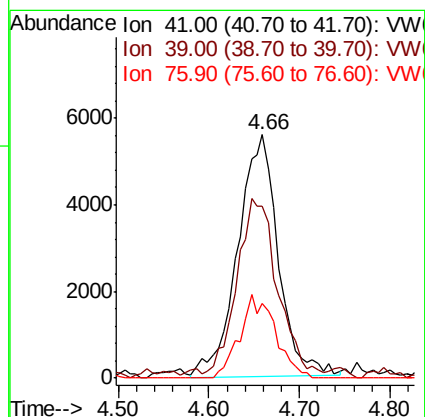
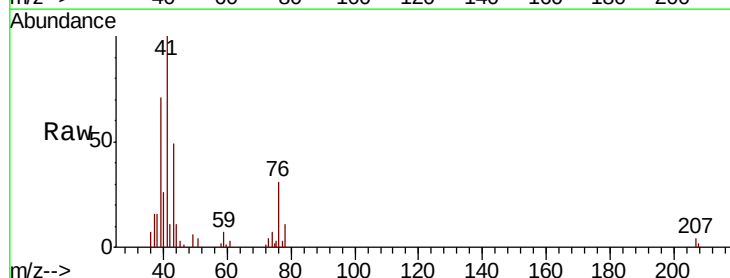
Tgt Ion: 41 Resp: 17283

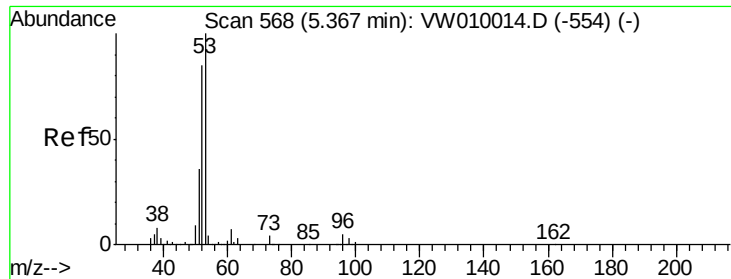
Ion Ratio Lower Upper

41 100

39 74.1 60.2 90.4

76 30.2 25.0 37.6





#15

Acrylonitrile

Concen: 12.463 ug/l

RT: 5.37 min Scan# 569

Delta R.T. 0.01 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

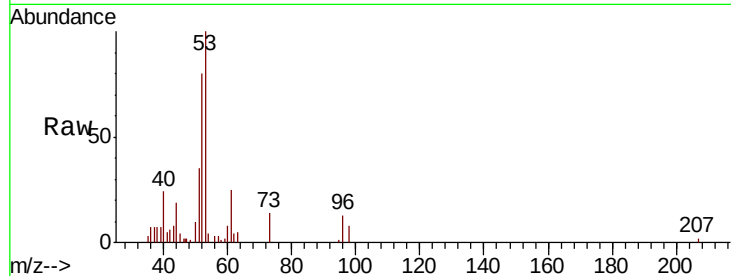
Tgt Ion: 53 Resp: 12714

Ion Ratio Lower Upper

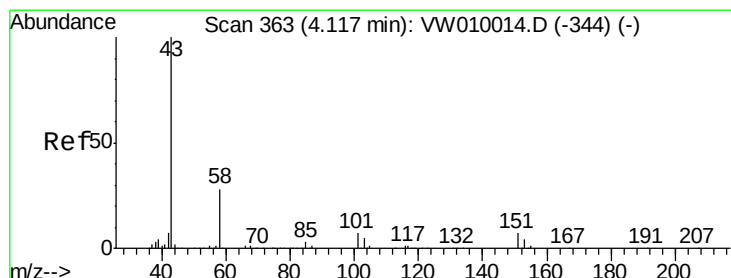
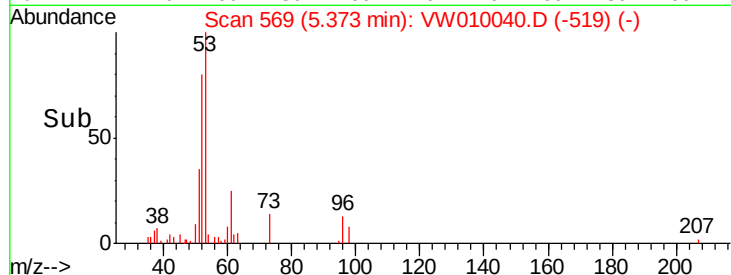
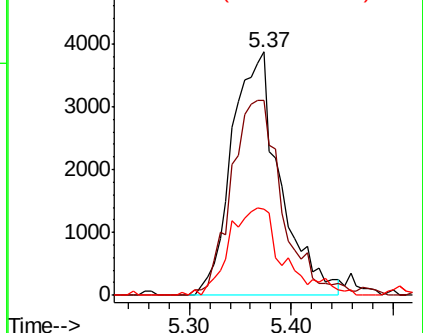
53 100

52 84.7 66.6 100.0

51 37.4 30.3 45.5



Abundance Ion 53.00 (52.70 to 53.70): VW
Ion 52.00 (51.70 to 52.70): VW
Ion 51.00 (50.70 to 51.70): VW



#16

Acetone

Concen: 19.595 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW010040.D

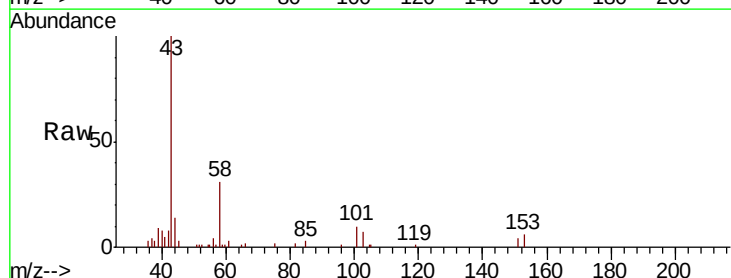
Acq: 18 Apr 2019 12:55

Tgt Ion: 43 Resp: 21818

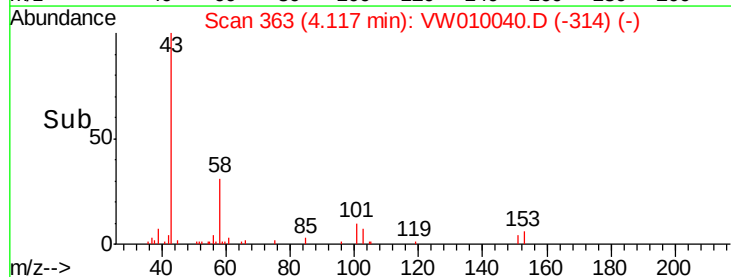
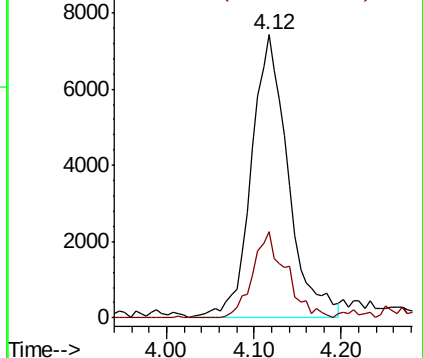
Ion Ratio Lower Upper

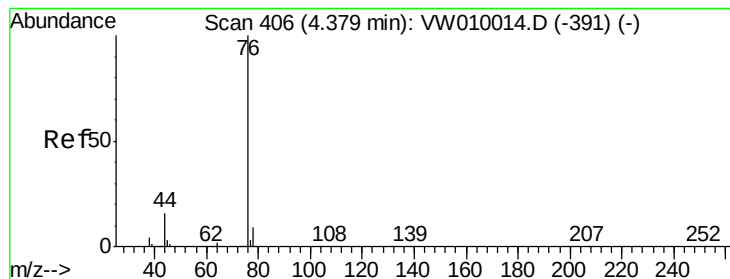
43 100

58 30.6 22.7 34.1



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW





#17

Carbon Disulfide

Concen: 2.797 ug/l

RT: 4.37 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

Instrument :

MSVOA_W

ClientSampleId :

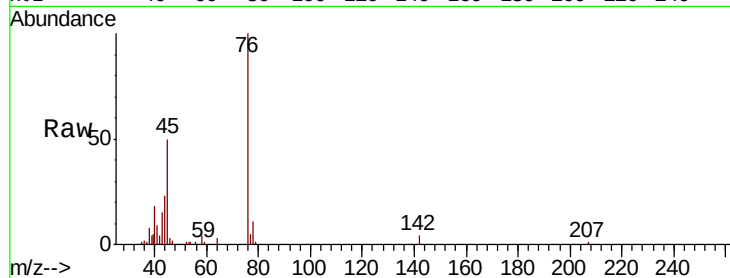
MDL-MDL-SOIL-03-QT2-2019

Tgt Ion: 76 Resp: 17347

Ion Ratio Lower Upper

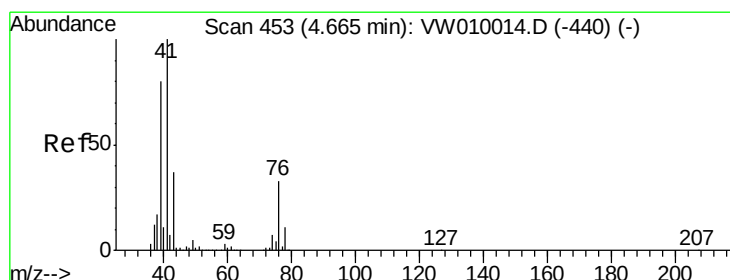
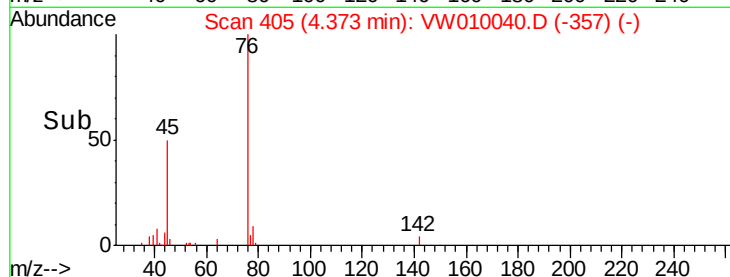
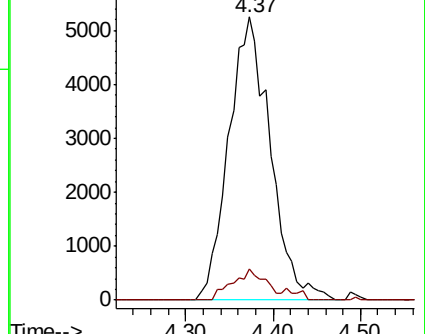
76 100

78 11.0 7.4 11.2



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#18

Methyl Acetate

Concen: 3.905 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW010040.D

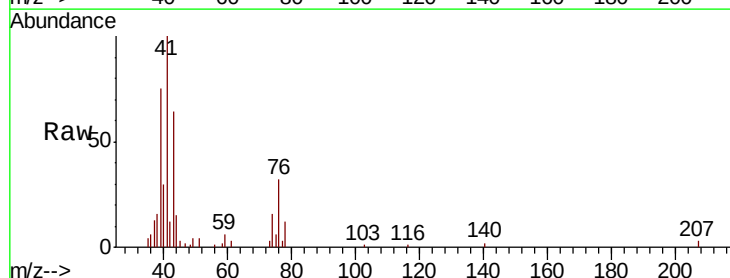
Acq: 18 Apr 2019 12:55

Tgt Ion: 43 Resp: 10064

Ion Ratio Lower Upper

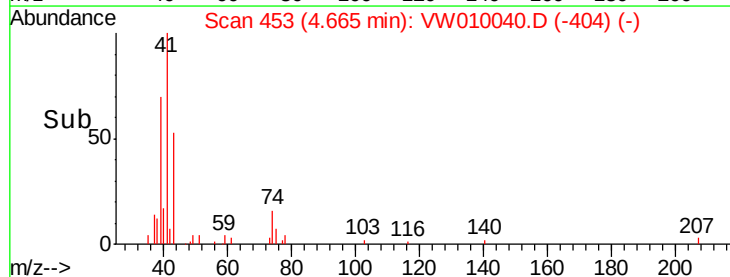
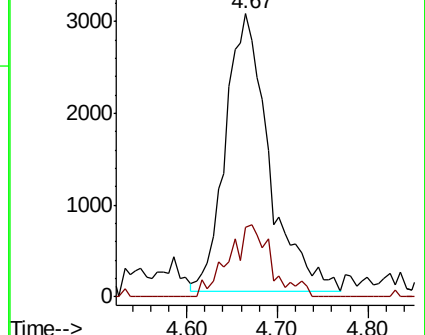
43 100

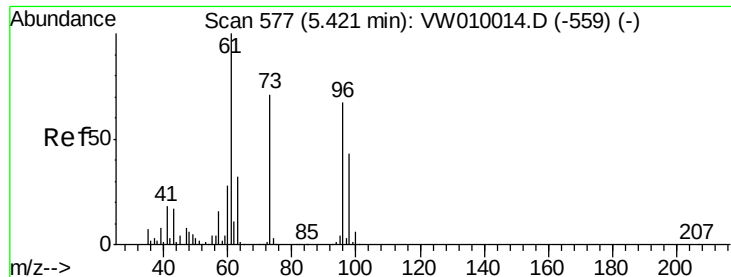
74 25.5 16.8 25.2#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

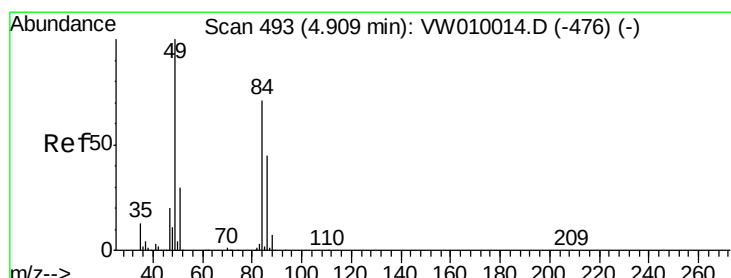
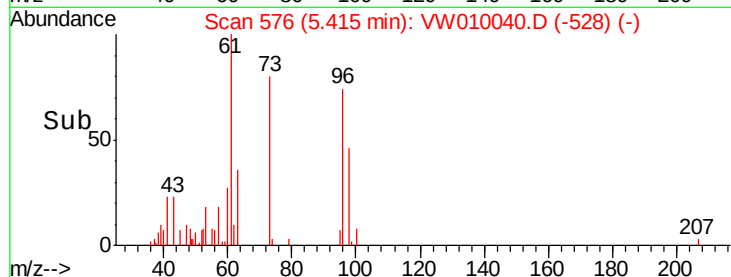
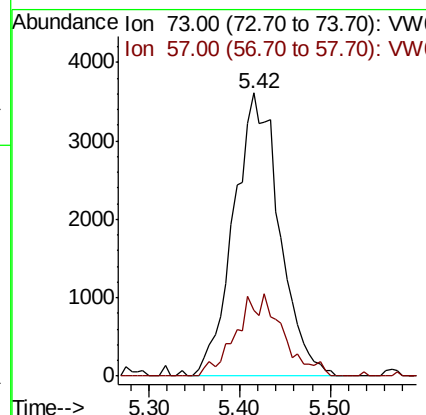
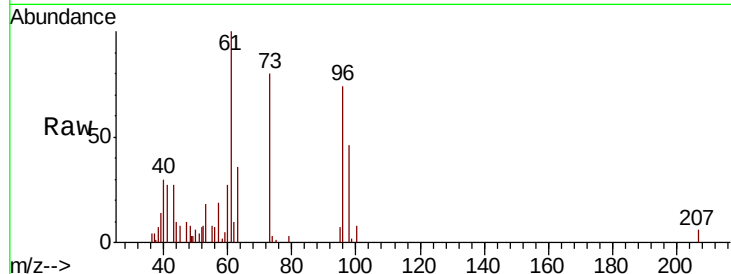




#19
Methyl tert-butyl Ether
Concen: 2.524 ug/l
RT: 5.42 min Scan# 576
Delta R.T. -0.01 min
Lab File: VW010040.D
Acq: 18 Apr 2019 12:55

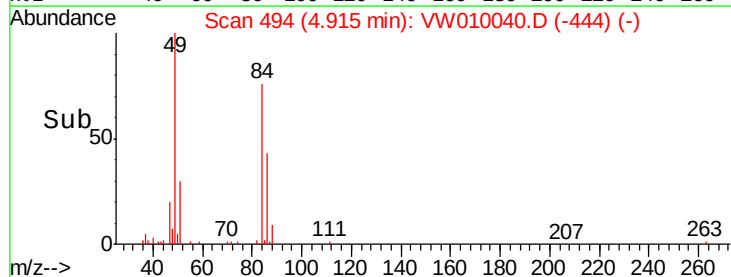
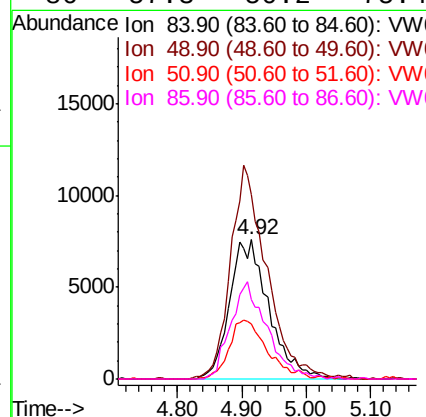
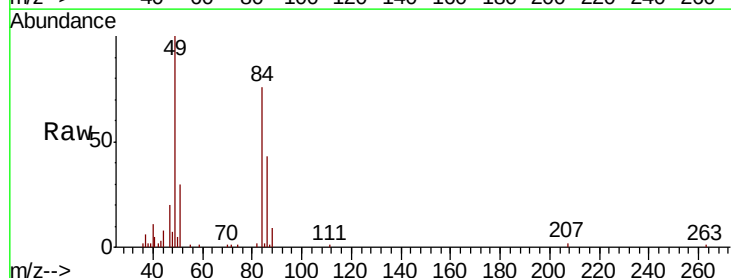
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

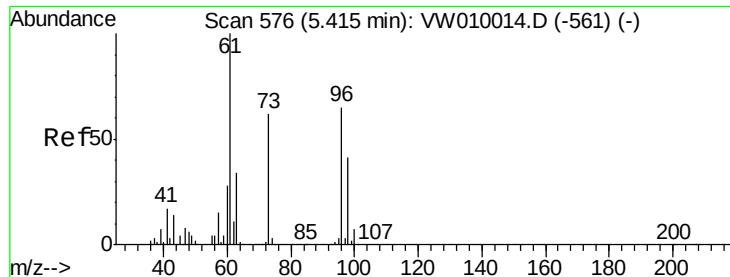
Tgt Ion: 73 Resp: 12604
Ion Ratio Lower Upper
73 100
57 23.2 18.5 27.7



#20
Methylene Chloride
Concen: 3.417 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW010040.D
Acq: 18 Apr 2019 12:55

Tgt Ion: 84 Resp: 32155
Ion Ratio Lower Upper
84 100
49 131.2 112.3 168.5
51 39.2 33.9 50.9
86 57.3 50.2 75.4

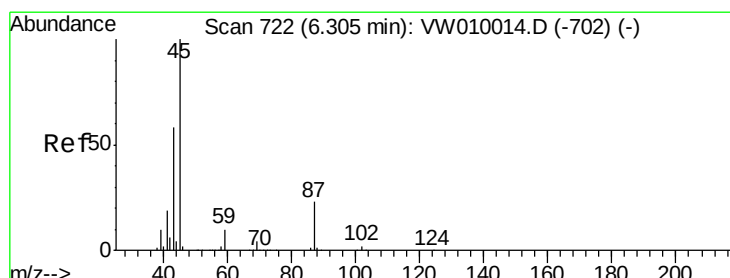
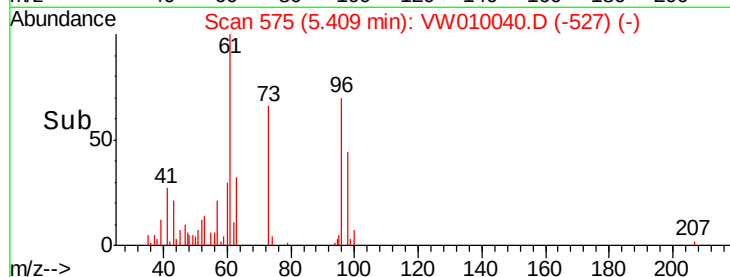
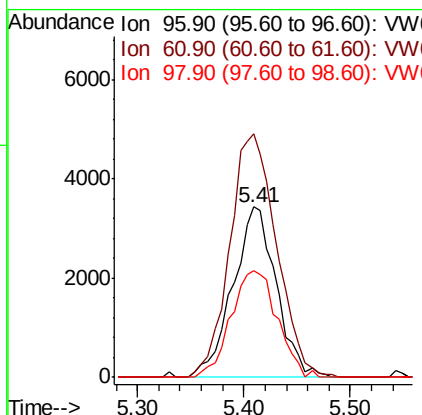
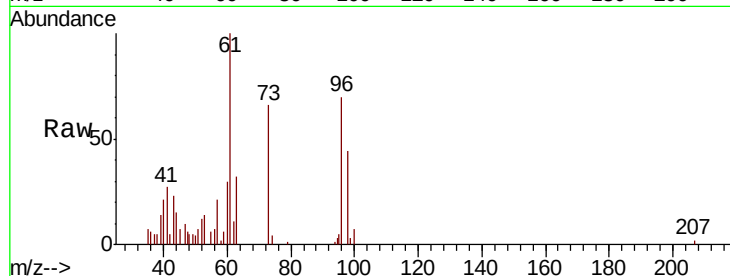




#21
trans-1,2-Dichloroethene
Concen: 2.351 ug/l
RT: 5.41 min Scan# 575
Delta R.T. -0.01 min
Lab File: VW010040.D
Acq: 18 Apr 2019 12:55

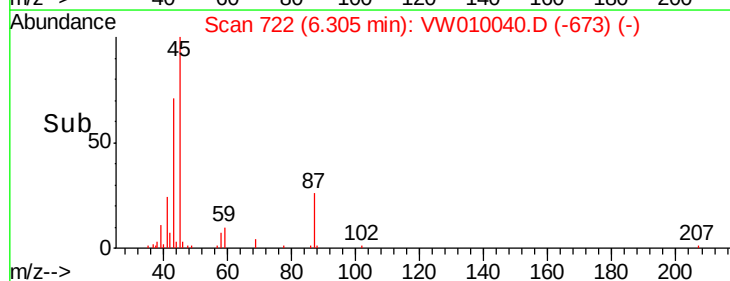
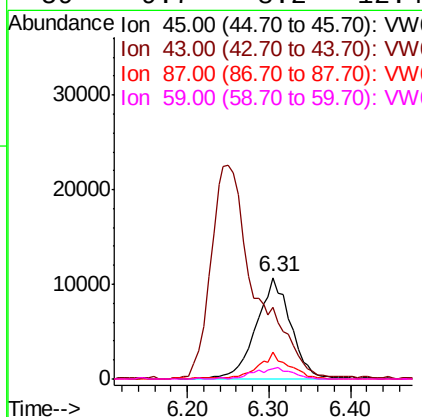
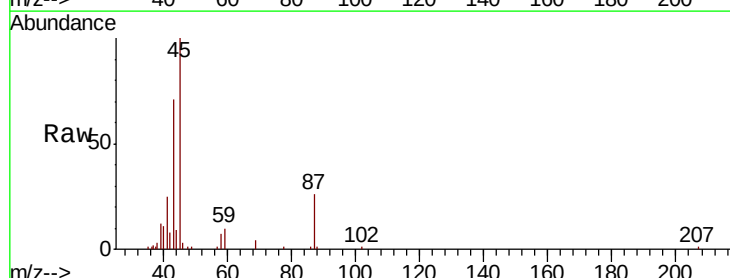
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

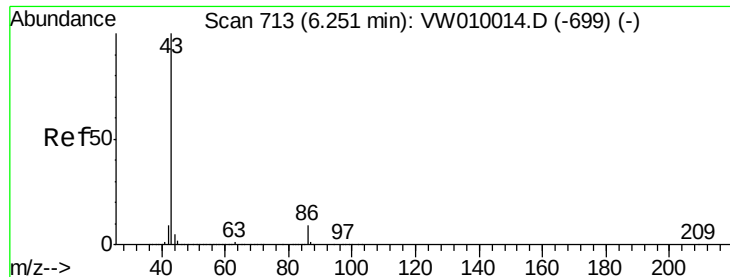
Tgt Ion: 96 Resp: 9789
Ion Ratio Lower Upper
96 100
61 142.9 122.3 183.5
98 62.7 50.5 75.7



#22
Diisopropyl ether
Concen: 2.269 ug/l
RT: 6.31 min Scan# 722
Delta R.T. -0.00 min
Lab File: VW010040.D
Acq: 18 Apr 2019 12:55

Tgt Ion: 45 Resp: 31457
Ion Ratio Lower Upper
45 100
43 68.4 46.1 69.1
87 26.0 18.3 27.5
59 9.7 8.2 12.4





#23

Vinyl Acetate

Concen: 9.900 ug/l

RT: 6.25 min Scan# 713

Delta R.T. -0.00 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

Instrument :

MSVOA_W

ClientSampleId :

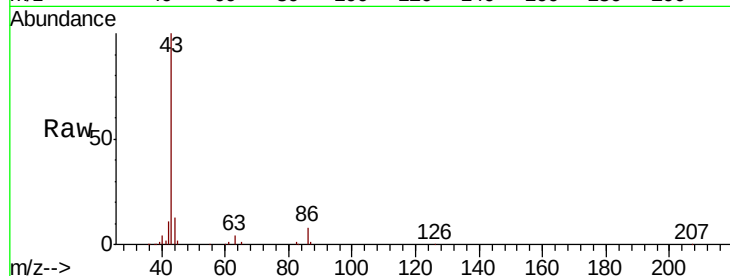
MDL-MDL-SOIL-03-QT2-2019

Tgt Ion: 43 Resp: 86403

Ion Ratio Lower Upper

43 100

86 8.0 7.0 10.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW

6.25

25000

20000

15000

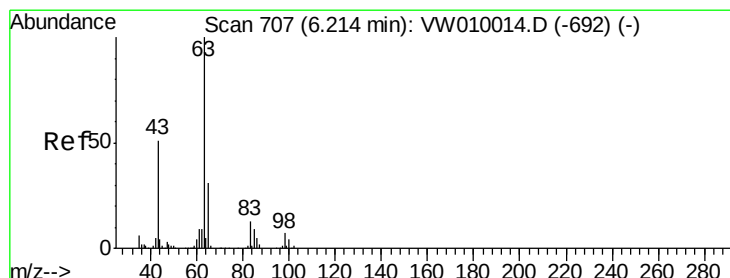
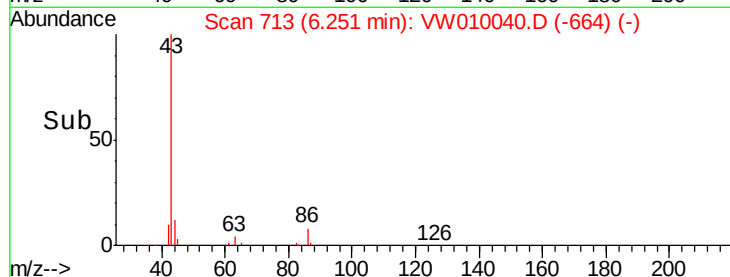
10000

5000

0

6.10 6.20 6.30 6.40

Time-->



#24

1,1-Dichloroethane

Concen: 2.731 ug/l

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

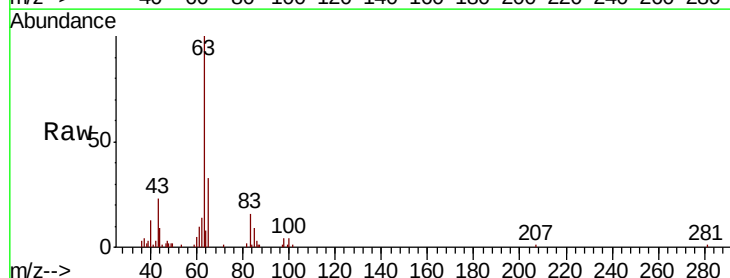
Tgt Ion: 63 Resp: 22634

Ion Ratio Lower Upper

63 100

98 4.3 3.3 9.8

100 3.7 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW

10000

8000

6000

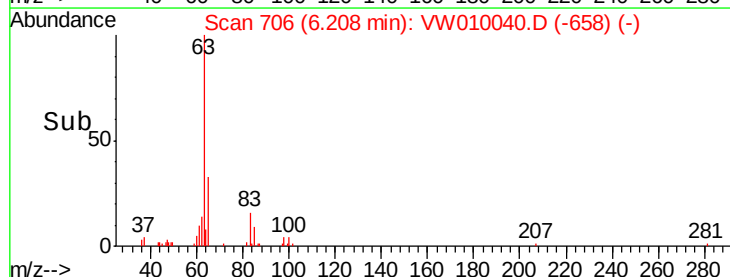
4000

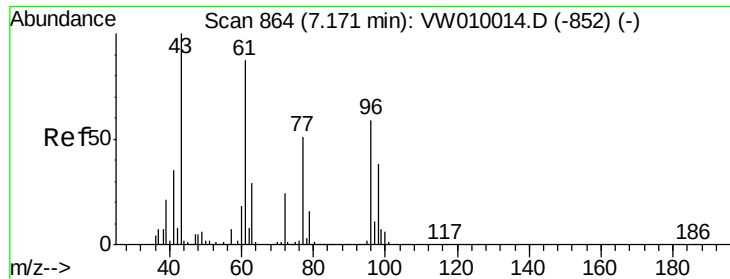
2000

0

6.10 6.20 6.30

Time-->





#25

2-Butanone

Concen: 11.805 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

Instrument :

MSVOA_W

ClientSampleId :

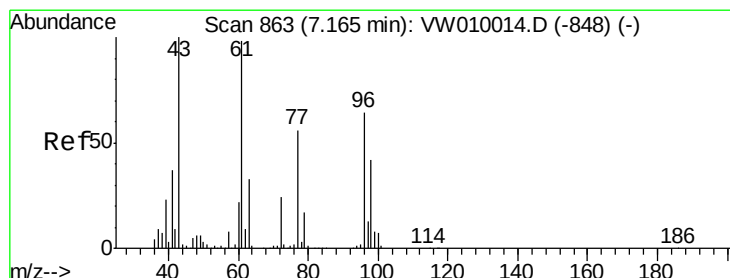
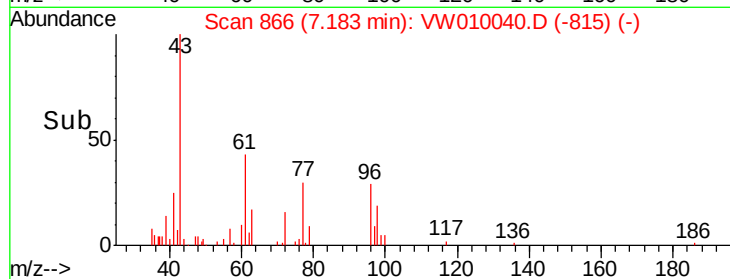
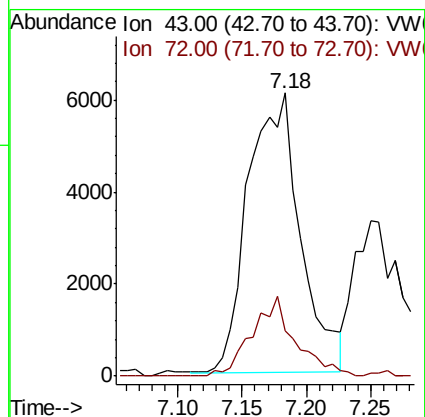
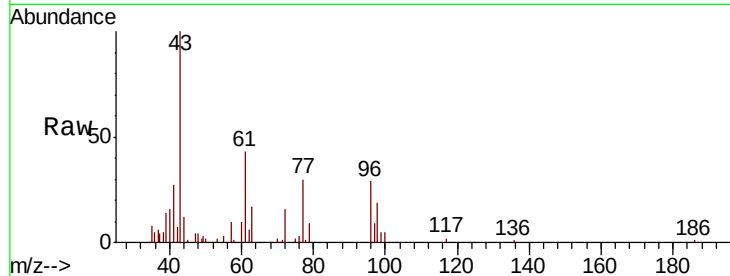
MDL-MDL-SOIL-03-QT2-2019

Tgt Ion: 43 Resp: 17266

Ion Ratio Lower Upper

43 100

72 16.0 19.1 28.7#



#26

2,2-Dichloropropane

Concen: 2.695 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW010040.D

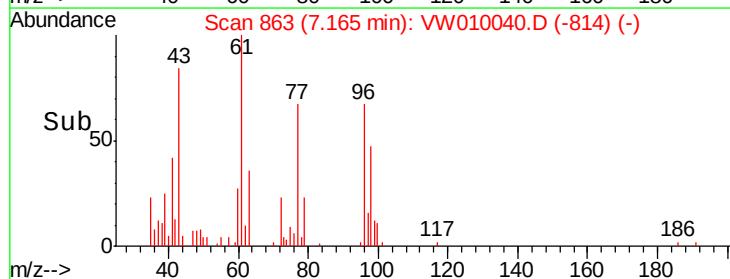
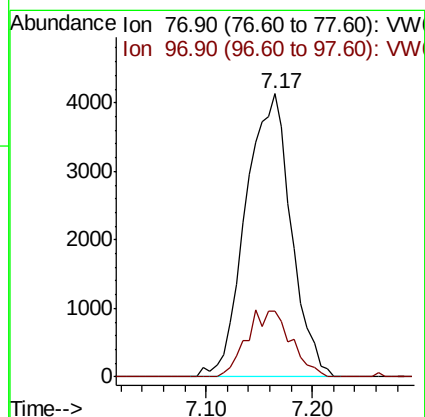
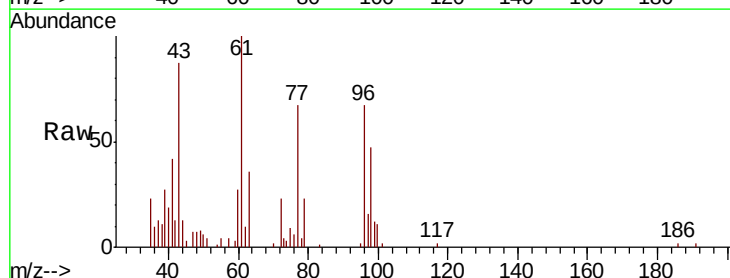
Acq: 18 Apr 2019 12:55

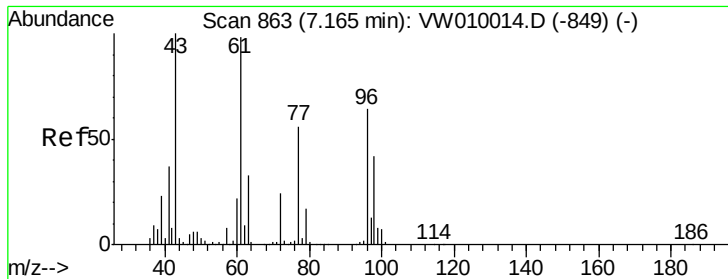
Tgt Ion: 77 Resp: 12358

Ion Ratio Lower Upper

77 100

97 22.9 11.3 33.9



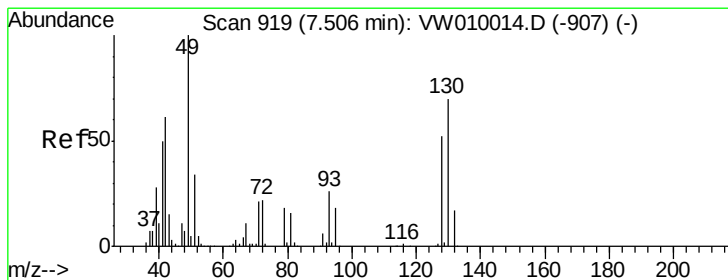
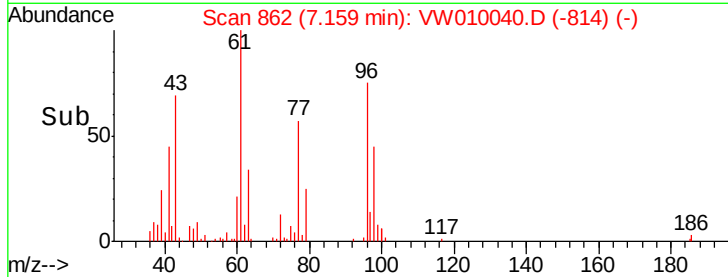
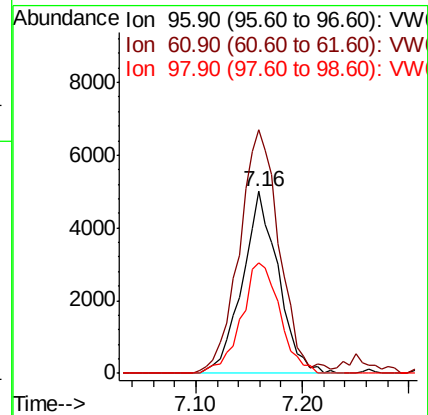
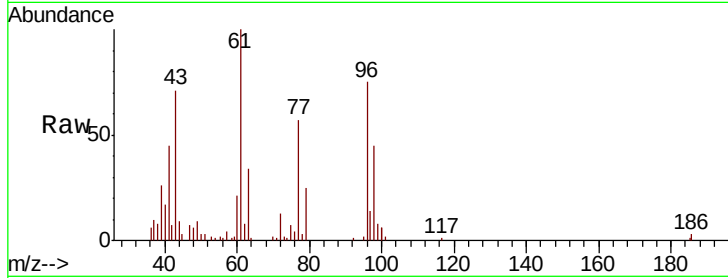


#27

cis-1,2-Dichloroethene
 Concen: 2.585 ug/l
 RT: 7.16 min Scan# 862
 Delta R.T. -0.01 min
 Lab File: VW010040.D
 Acq: 18 Apr 2019 12:55

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT2-2019

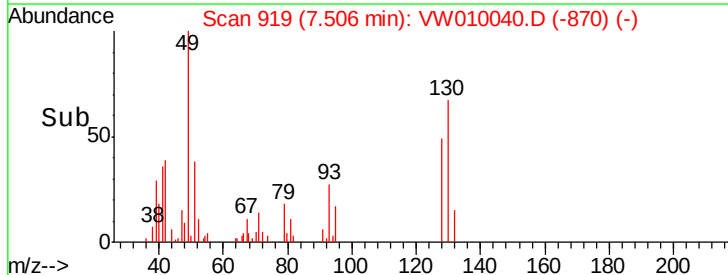
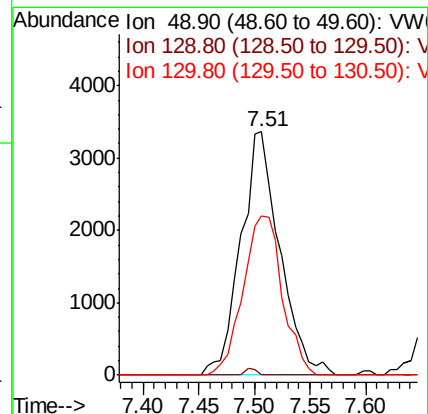
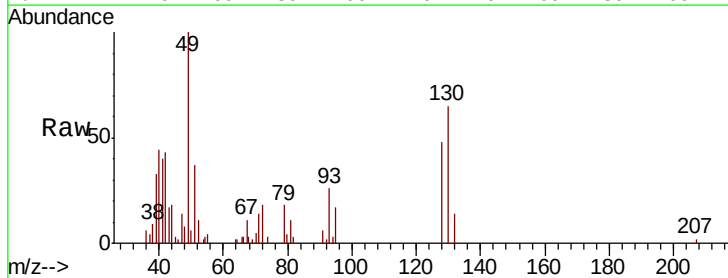
Tgt Ion: 96 Resp: 11833
 Ion Ratio Lower Upper
 96 100
 61 149.0 0.0 309.4
 98 65.1 0.0 128.6

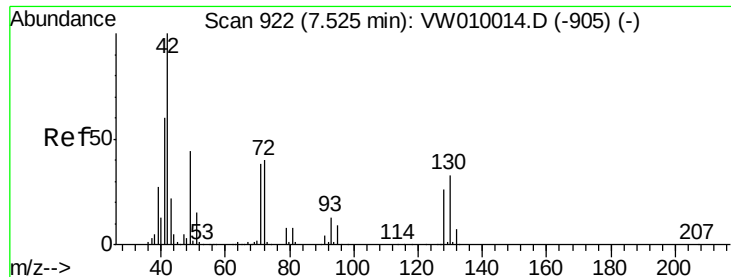


#28

Bromochloromethane
 Concen: 2.423 ug/l
 RT: 7.51 min Scan# 919
 Delta R.T. -0.00 min
 Lab File: VW010040.D
 Acq: 18 Apr 2019 12:55

Tgt Ion: 49 Resp: 8207
 Ion Ratio Lower Upper
 49 100
 129 0.7 0.0 3.8
 130 65.7 54.6 82.0

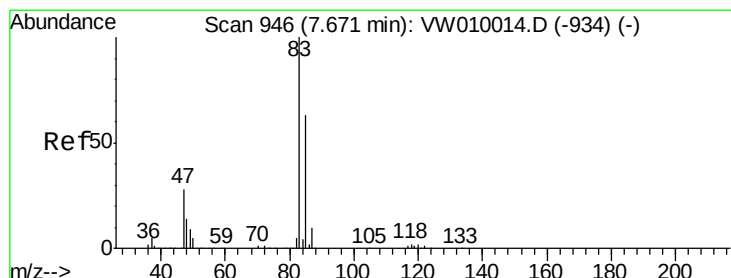
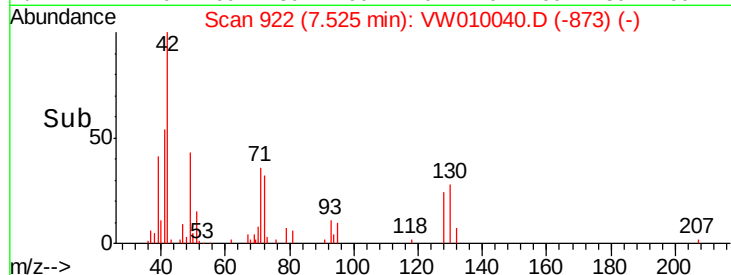
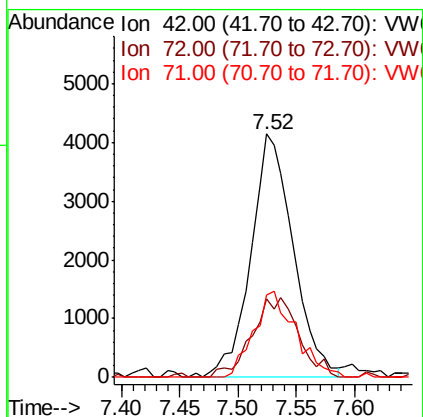
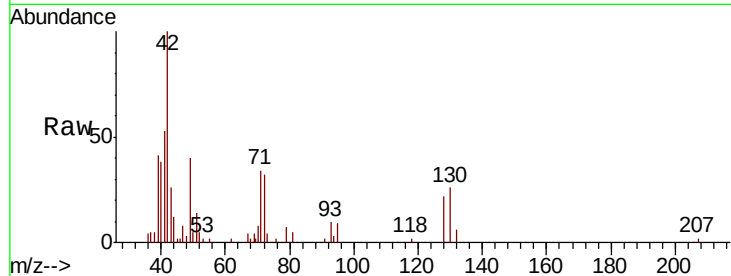




#29
Tetrahydrofuran
Concen: 11.298 ug/l
RT: 7.52 min Scan# 922
Delta R.T. -0.00 min
Lab File: VW010040.D
Acq: 18 Apr 2019 12:55

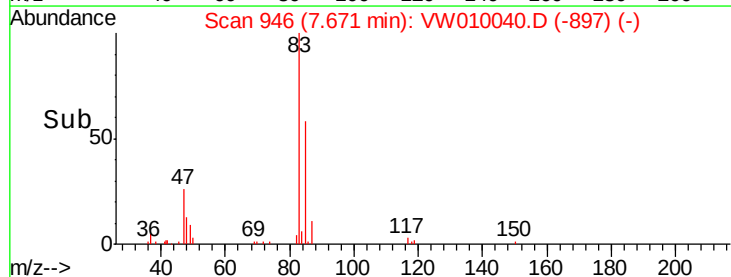
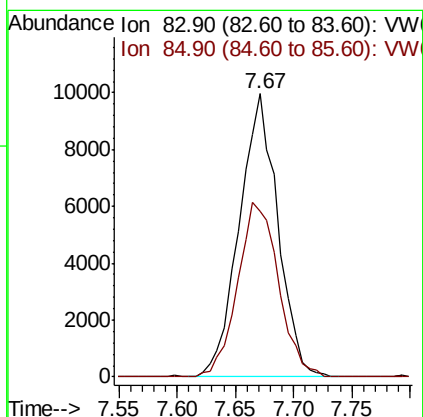
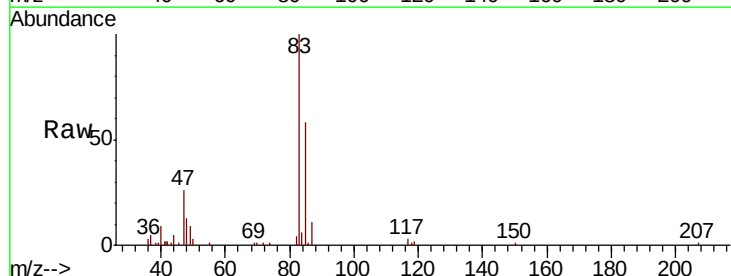
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

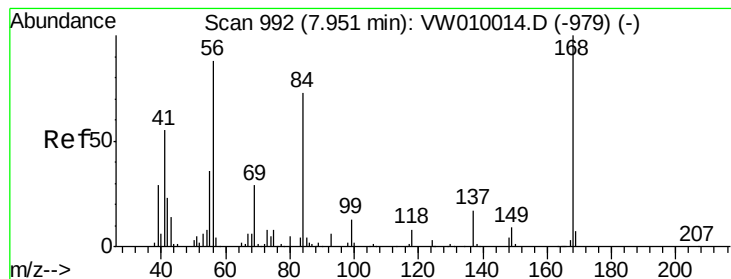
Tgt Ion: 42 Resp: 10471
Ion Ratio Lower Upper
42 100
72 36.0 31.0 46.6
71 34.8 29.7 44.5



#30
Chloroform
Concen: 2.758 ug/l
RT: 7.67 min Scan# 946
Delta R.T. -0.00 min
Lab File: VW010040.D
Acq: 18 Apr 2019 12:55

Tgt Ion: 83 Resp: 22900
Ion Ratio Lower Upper
83 100
85 58.5 50.7 76.1





#31

Cyclohexane

Concen: 3.269 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

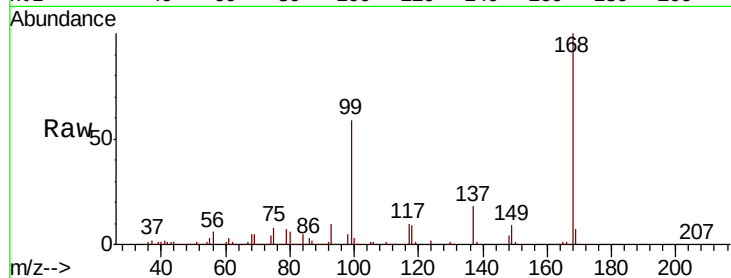
Instrument :

MSVOA_W

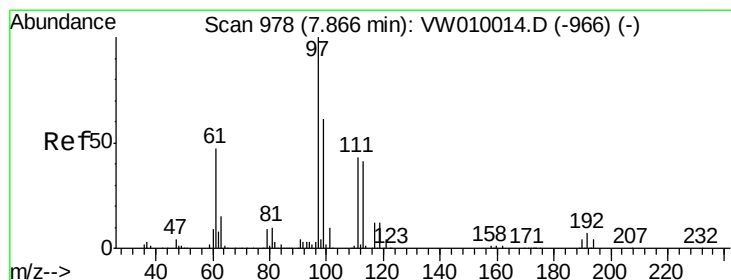
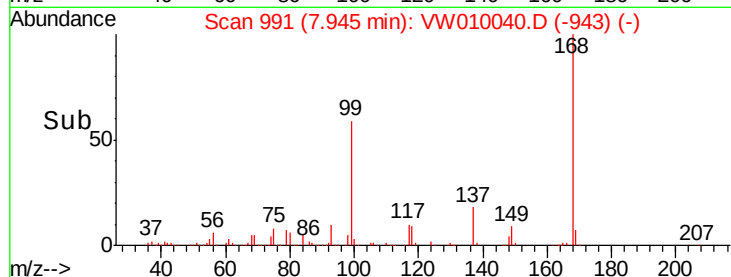
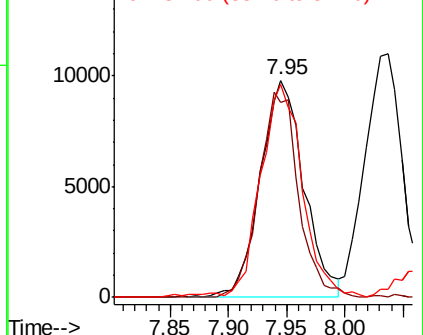
ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

Tgt Ion:	56	Resp:	25370
Ion	Ratio	Lower	Upper
56	100		
69	89.6	26.6	40.0#
84	97.0	66.2	99.2



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



#32

1,1,1-Trichloroethane

Concen: 2.692 ug/l

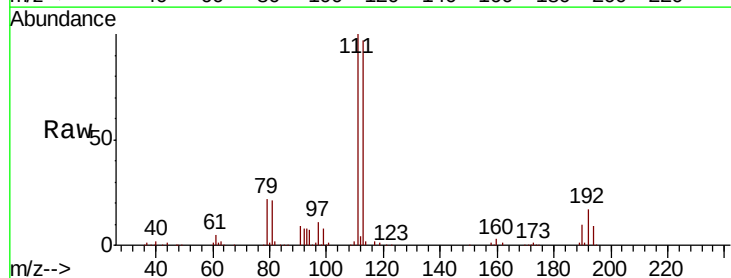
RT: 7.87 min Scan# 978

Delta R.T. -0.00 min

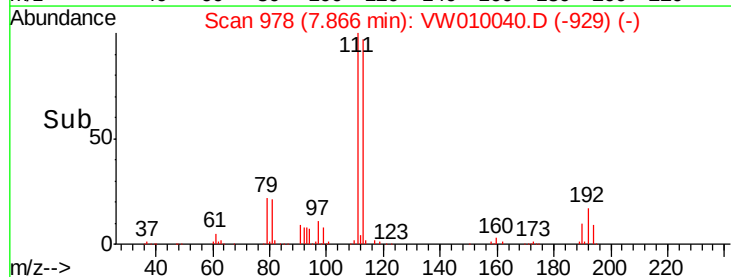
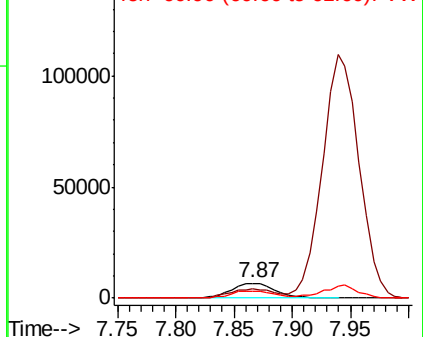
Lab File: VW010040.D

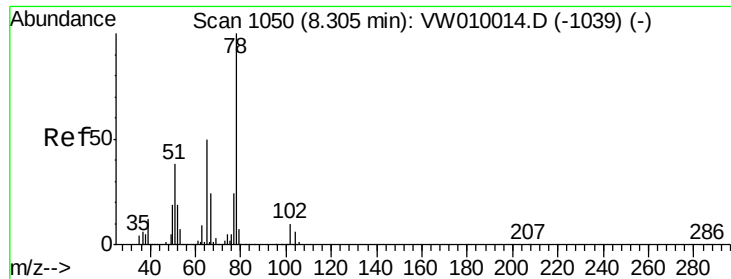
Acq: 18 Apr 2019 12:55

Tgt Ion:	97	Resp:	17550
Ion	Ratio	Lower	Upper
97	100		
99	67.2	50.2	75.2
61	47.7	38.2	57.2



Abundance Ion 96.90 (96.60 to 97.60): VW
Ion 98.90 (98.60 to 99.60): VW
Ion 60.90 (60.60 to 61.60): VW

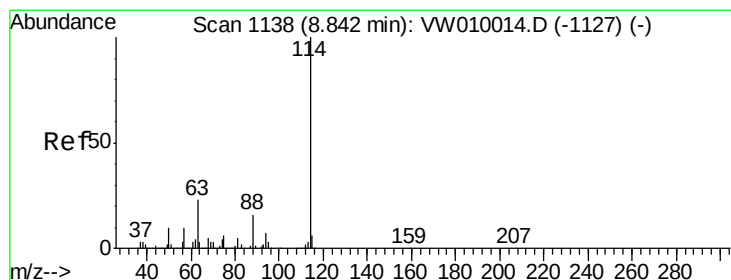
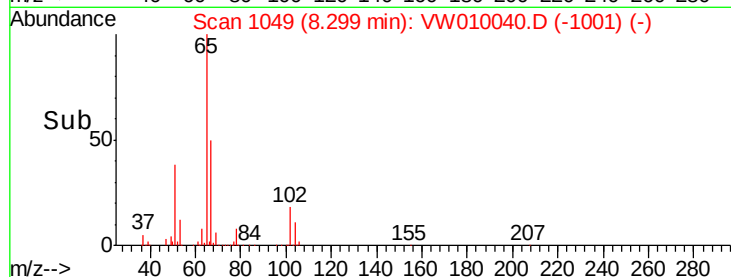
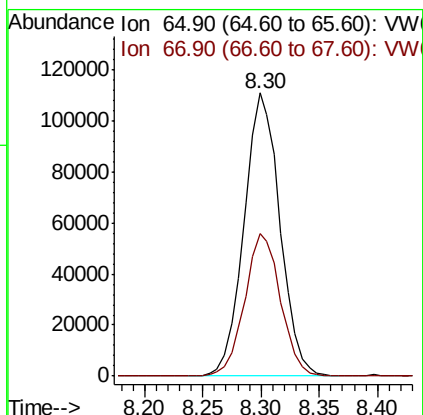
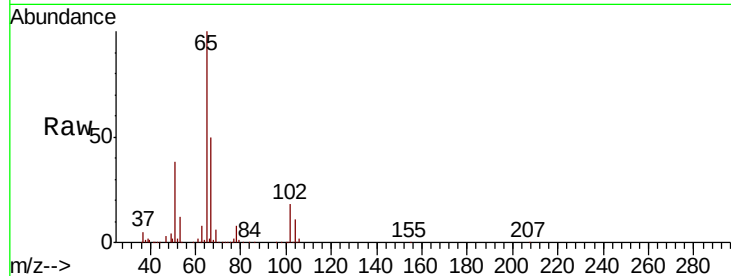




#33
 1,2-Dichloroethane-d4
 Concen: 49.658 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW010040.D
 Acq: 18 Apr 2019 12:55

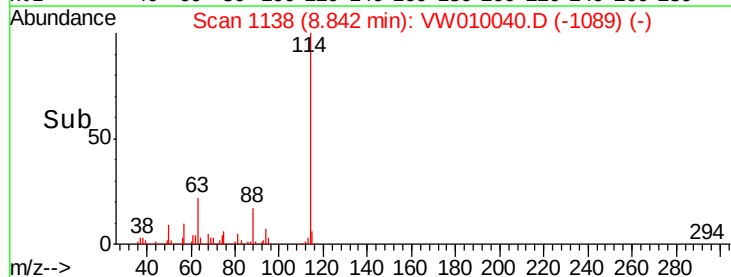
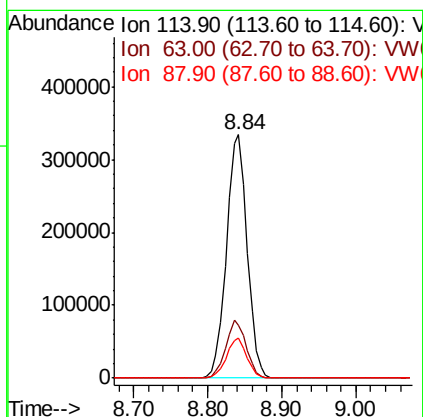
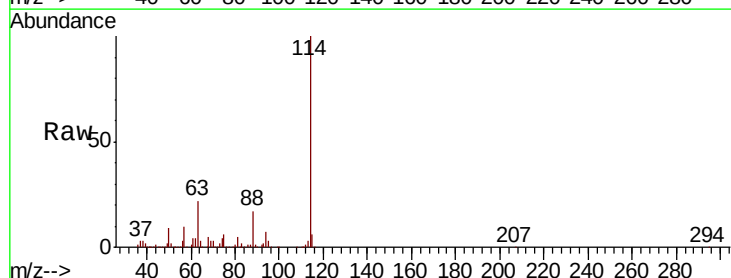
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT2-2019

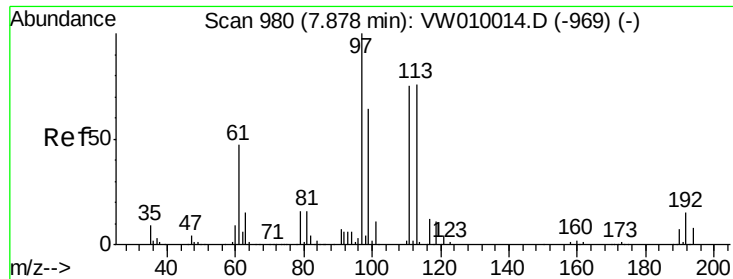
Tgt Ion: 65 Resp: 238305
 Ion Ratio Lower Upper
 65 100
 67 50.3 0.0 100.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW010040.D
 Acq: 18 Apr 2019 12:55

Tgt Ion: 114 Resp: 646568
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 46.2
 88 16.6 0.0 32.6

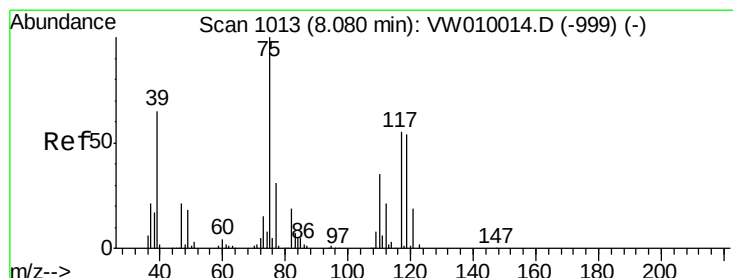
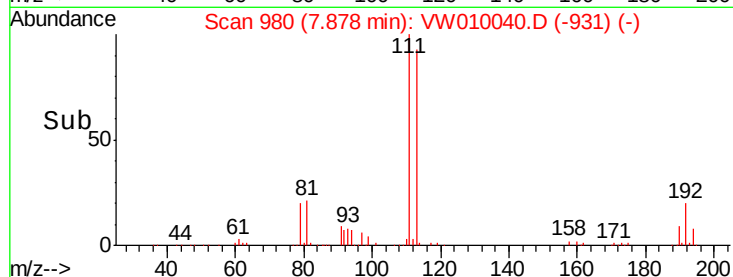
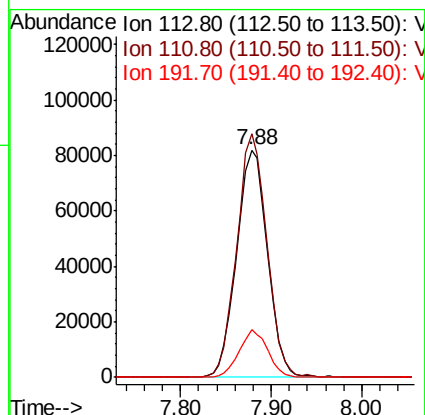
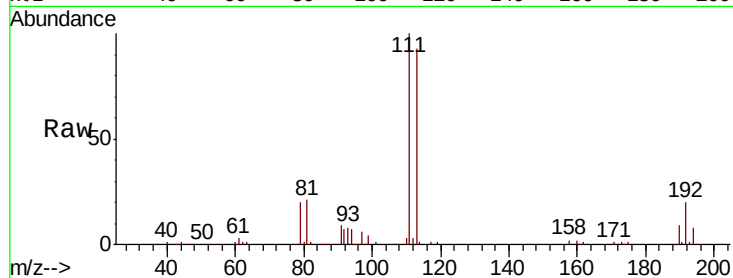




#35
 Dibromofluoromethane
 Concen: 47.165 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.00 min
 Lab File: VW010040.D
 Acq: 18 Apr 2019 12:55

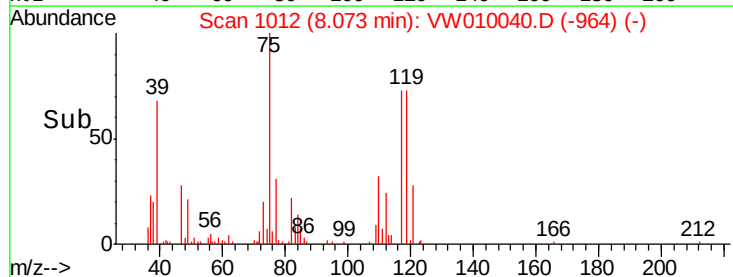
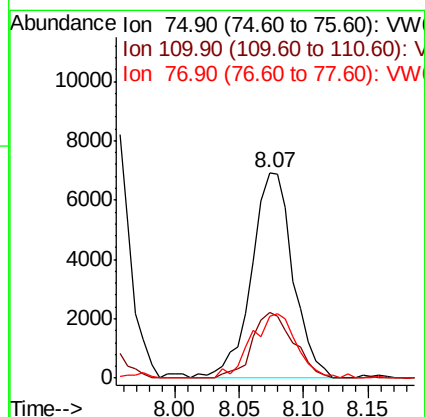
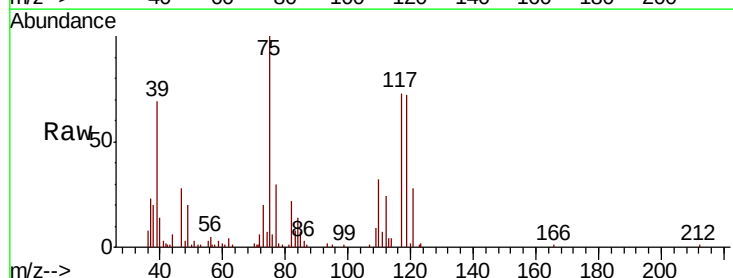
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT2-2019

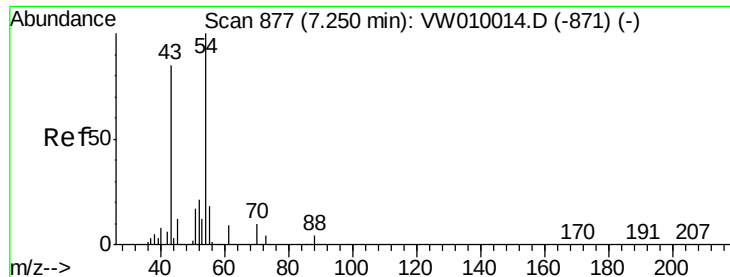
Tgt Ion: 113 Resp: 193879
 Ion Ratio Lower Upper
 113 100
 111 104.3 82.6 123.8
 192 19.4 15.4 23.2



#36
 1,1-Dichloropropene
 Concen: 2.340 ug/l
 RT: 8.07 min Scan# 1012
 Delta R.T. -0.01 min
 Lab File: VW010040.D
 Acq: 18 Apr 2019 12:55

Tgt Ion: 75 Resp: 15452
 Ion Ratio Lower Upper
 75 100
 110 32.0 16.6 49.8
 77 34.1 24.8 37.2

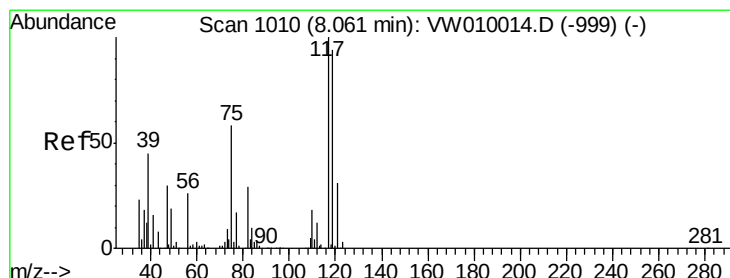
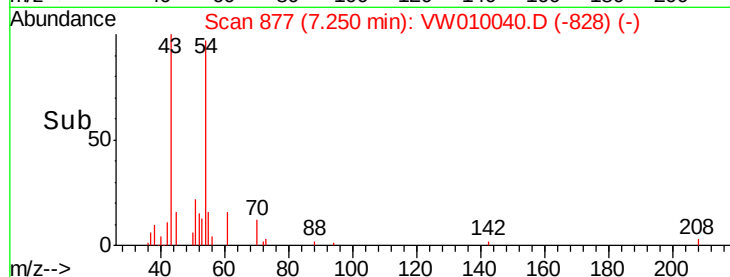
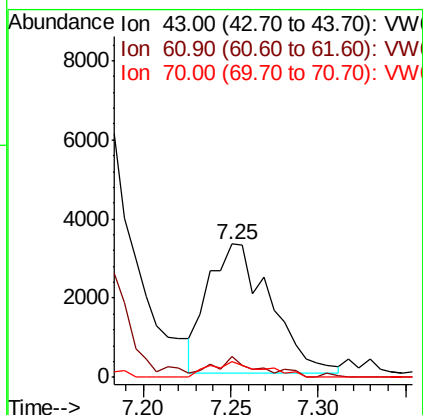
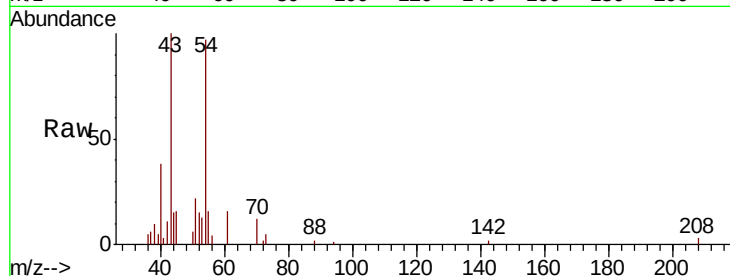




#37
Ethyl Acetate
Concen: 2.418 ug/l
RT: 7.25 min Scan# 877
Delta R.T. -0.00 min
Lab File: VW010040.D
Acq: 18 Apr 2019 12:55

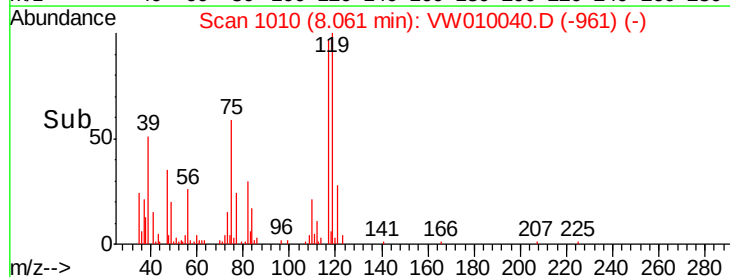
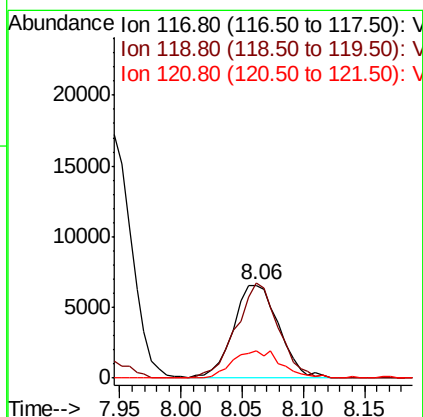
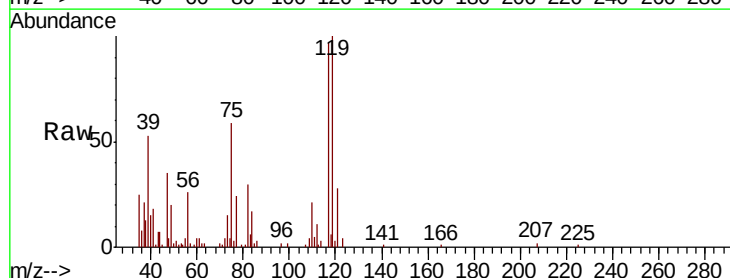
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

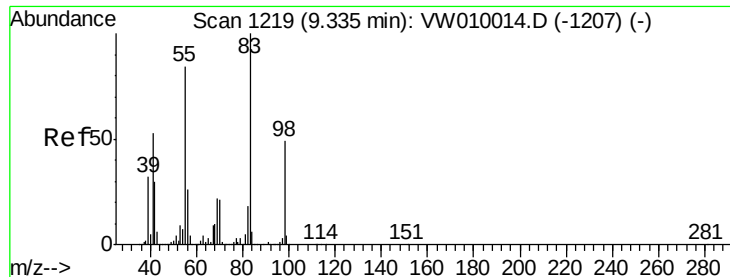
Tgt Ion: 43 Resp: 8116
Ion Ratio Lower Upper
43 100
61 11.1 9.8 14.8
70 10.5 7.4 11.0



#38
Carbon Tetrachloride
Concen: 2.642 ug/l
RT: 8.06 min Scan# 1010
Delta R.T. -0.00 min
Lab File: VW010040.D
Acq: 18 Apr 2019 12:55

Tgt Ion: 117 Resp: 17027
Ion Ratio Lower Upper
117 100
119 102.8 75.3 112.9
121 28.7 24.4 36.6

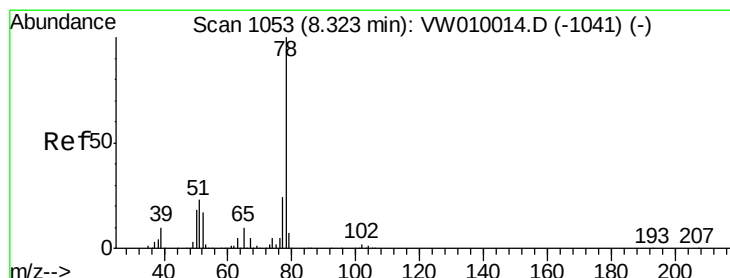
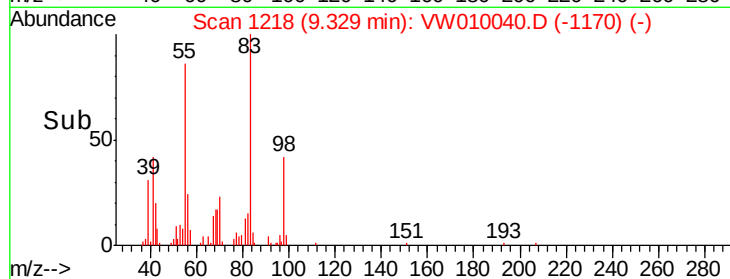
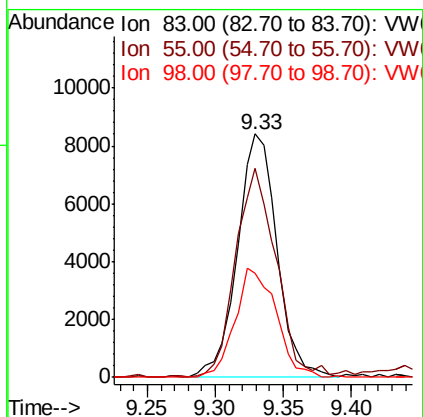
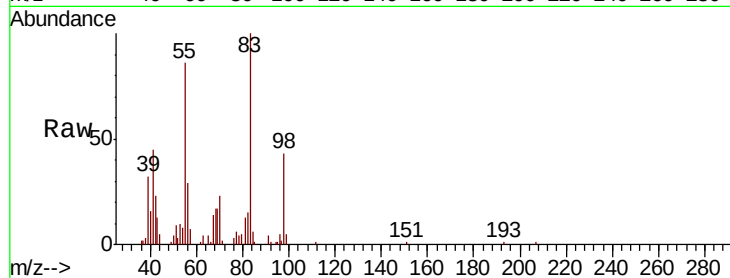




#39
Methylcyclohexane
Concen: 3.276 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW010040.D
Acq: 18 Apr 2019 12:55

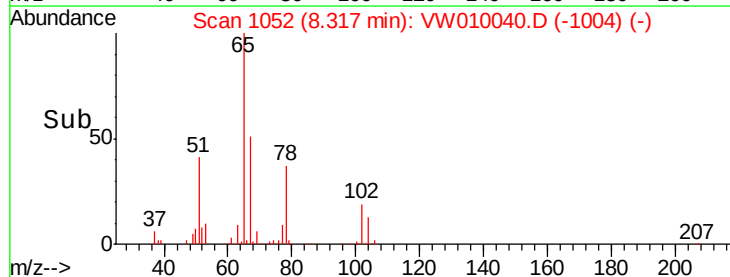
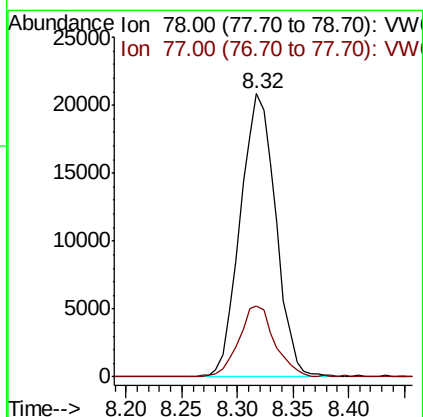
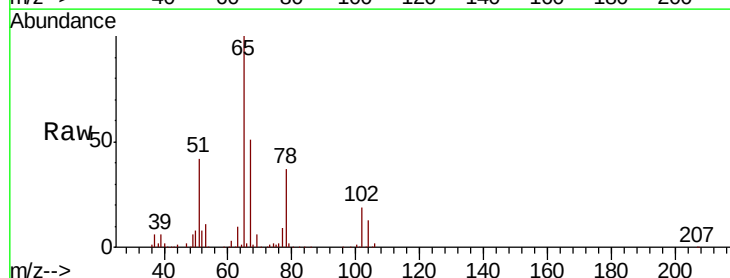
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

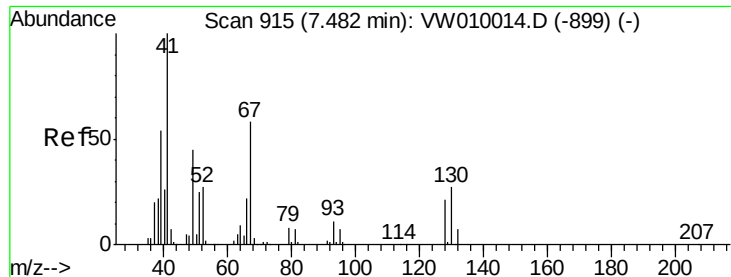
Tgt Ion: 83 Resp: 17114
Ion Ratio Lower Upper
83 100
55 85.6 67.1 100.7
98 42.6 39.2 58.8



#40
Benzene
Concen: 2.562 ug/l
RT: 8.32 min Scan# 1052
Delta R.T. -0.01 min
Lab File: VW010040.D
Acq: 18 Apr 2019 12:55

Tgt Ion: 78 Resp: 46268
Ion Ratio Lower Upper
78 100
77 25.1 19.1 28.7

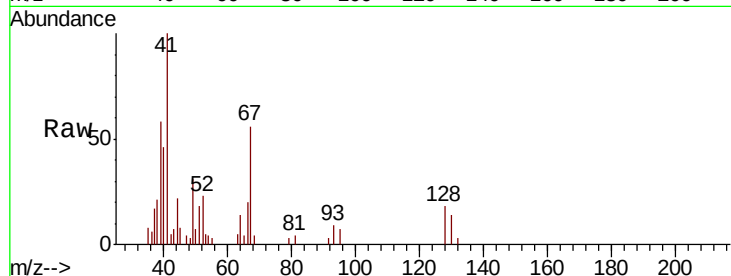




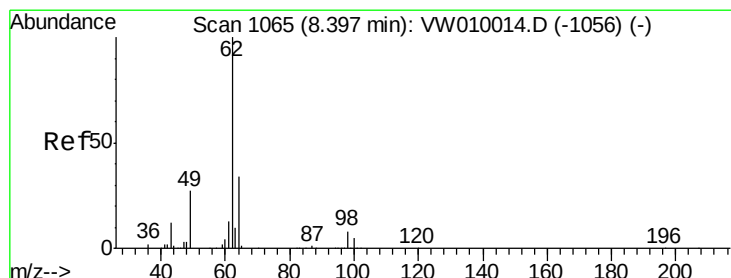
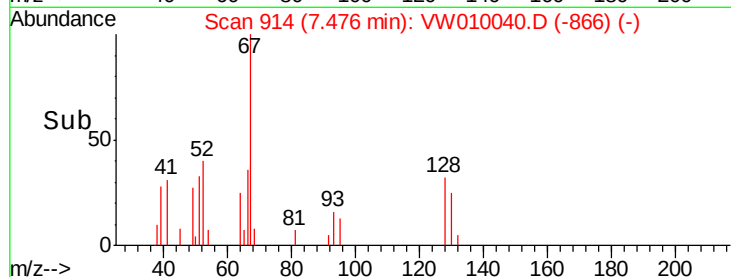
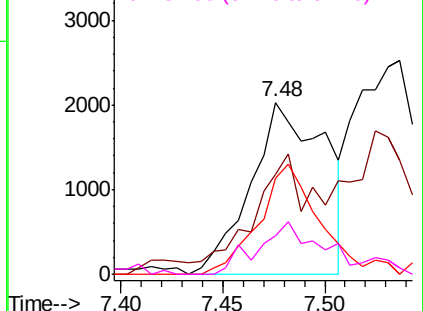
#41
Methacrylonitrile
Concen: 2.677 ug/l
RT: 7.48 min Scan# 914
Delta R.T. -0.01 min
Lab File: VW010040.D
Acq: 18 Apr 2019 12:55

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

Tgt Ion:	41	Resp:	5121
Ion	Ratio	Lower	Upper
41	100		
39	53.5	45.0	67.4
67	53.0	50.7	76.1
52	26.3	22.6	33.8

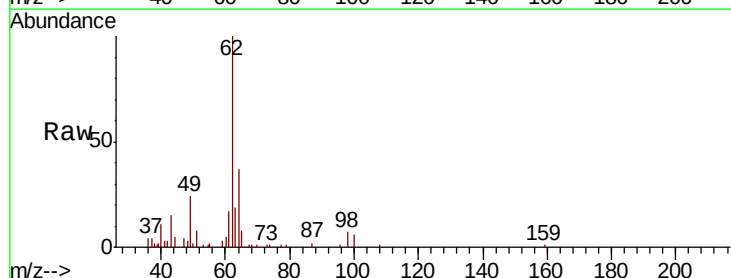


Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 67.00 (66.70 to 67.70): VW
Ion 52.00 (51.70 to 52.70): VW

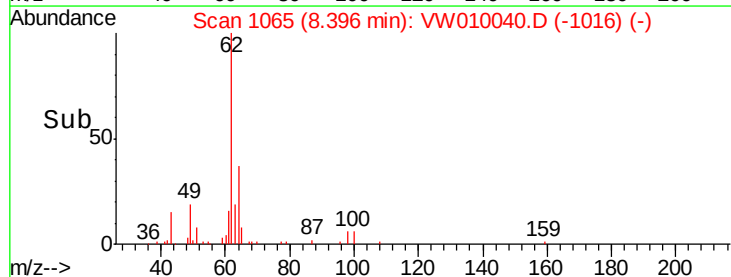
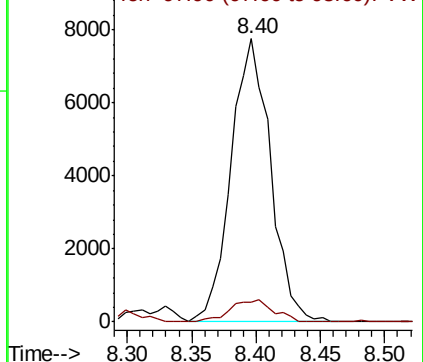


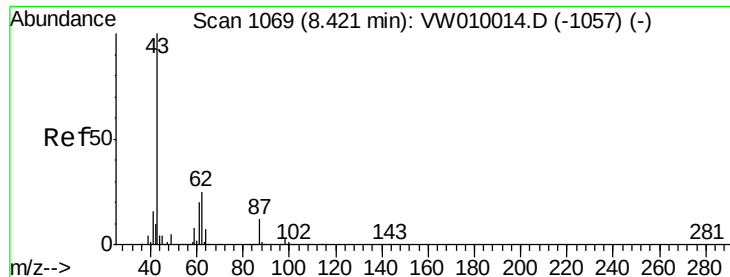
#42
1,2-Dichloroethane
Concen: 2.659 ug/l
RT: 8.40 min Scan# 1065
Delta R.T. -0.00 min
Lab File: VW010040.D
Acq: 18 Apr 2019 12:55

Tgt Ion:	62	Resp:	16501
Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	16.6



Abundance Ion 61.90 (61.60 to 62.60): VW
Ion 97.90 (97.60 to 98.60): VW





#43

Isopropyl Acetate

Concen: 2.312 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. -0.00 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

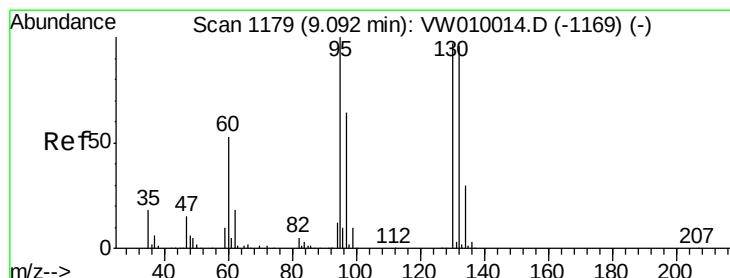
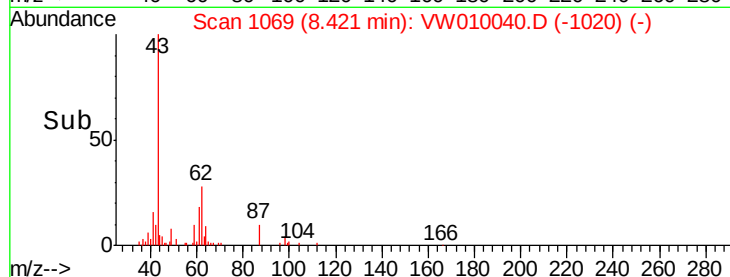
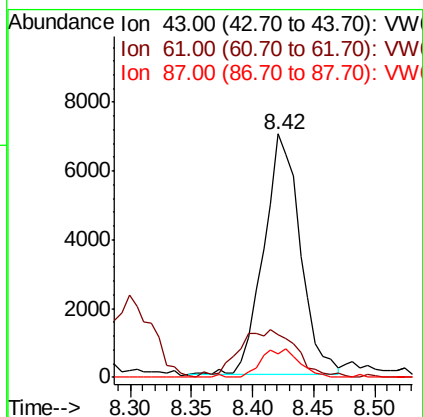
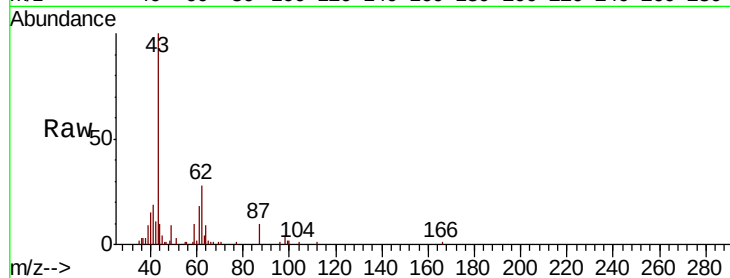
Tgt Ion: 43 Resp: 14542

Ion Ratio Lower Upper

43 100

61 0.0 23.0 34.6#

87 12.3 9.3 13.9



#44

Trichloroethene

Concen: 2.570 ug/l

RT: 9.09 min Scan# 1178

Delta R.T. -0.01 min

Lab File: VW010040.D

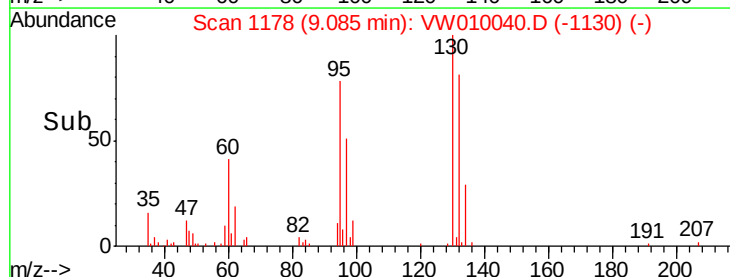
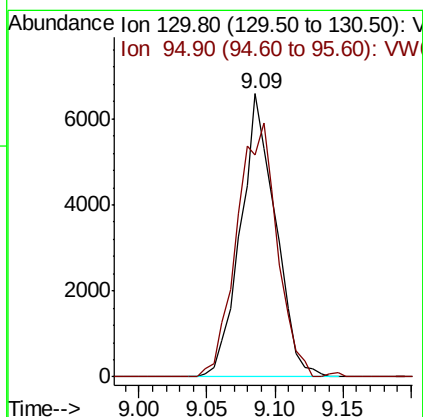
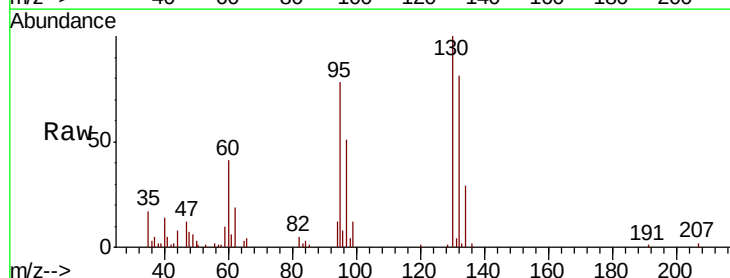
Acq: 18 Apr 2019 12:55

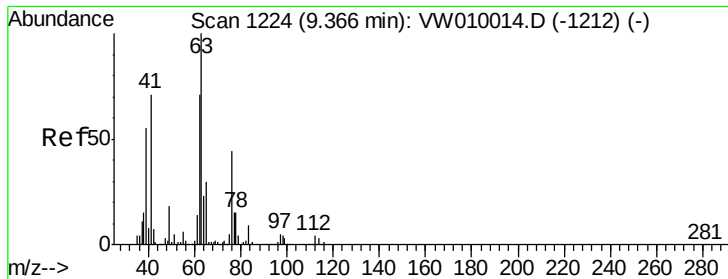
Tgt Ion: 130 Resp: 11786

Ion Ratio Lower Upper

130 100

95 78.2 0.0 205.4

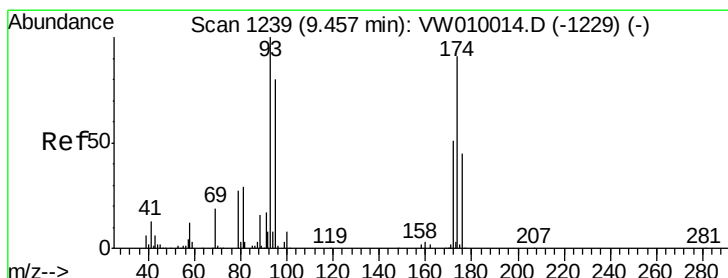
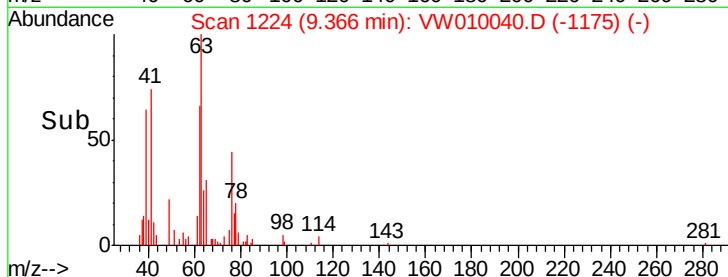
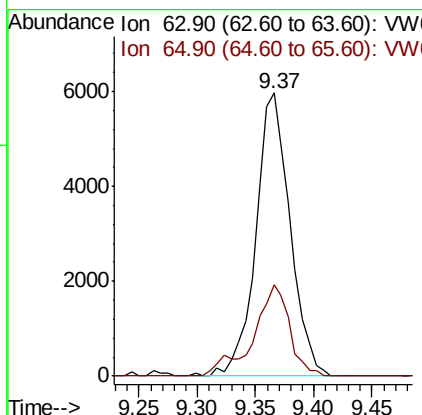
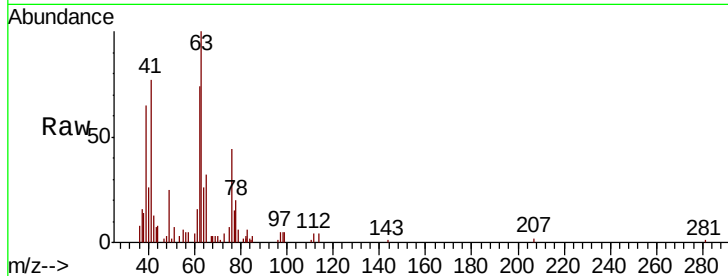




#45
 1,2-Dichloropropane
 Concen: 2.572 ug/l
 RT: 9.37 min Scan# 1224
 Delta R.T. -0.00 min
 Lab File: VW010040.D
 Acq: 18 Apr 2019 12:55

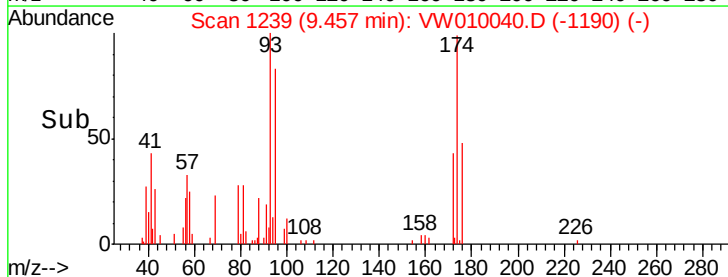
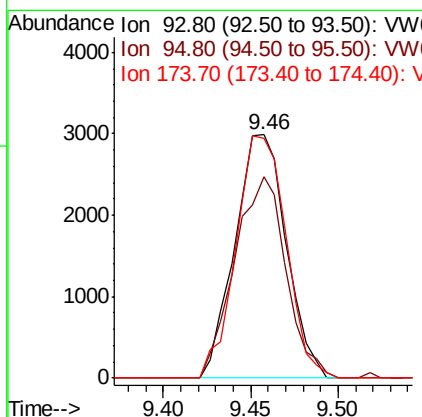
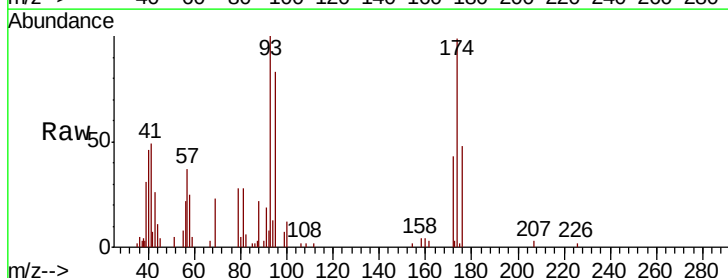
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT2-2019

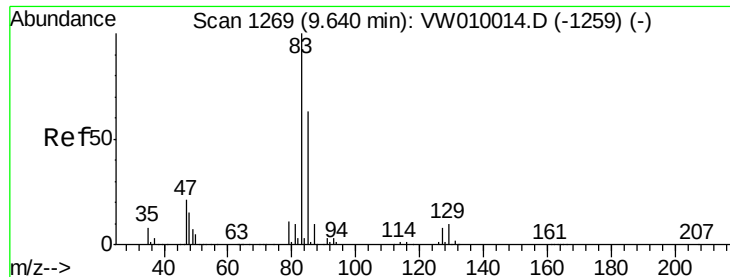
Tgt Ion: 63 Resp: 12210
 Ion Ratio Lower Upper
 63 100
 65 32.2 23.8 35.6



#46
 Dibromomethane
 Concen: 2.480 ug/l
 RT: 9.46 min Scan# 1239
 Delta R.T. -0.00 min
 Lab File: VW010040.D
 Acq: 18 Apr 2019 12:55

Tgt Ion: 93 Resp: 6101
 Ion Ratio Lower Upper
 93 100
 95 82.8 65.8 98.8
 174 97.0 75.5 113.3





#47

Bromodichloromethane

Concen: 2.649 ug/l

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

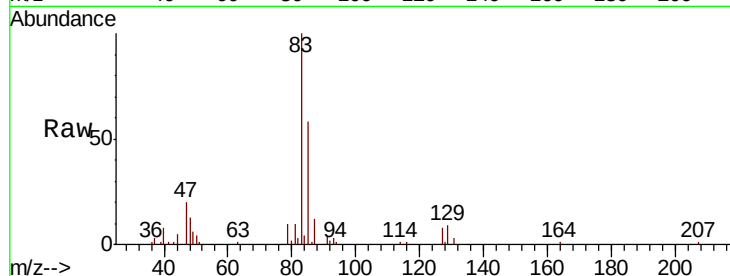
Tgt Ion: 83 Resp: 16823

Ion Ratio Lower Upper

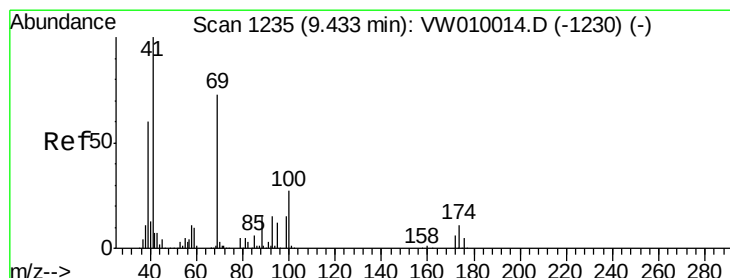
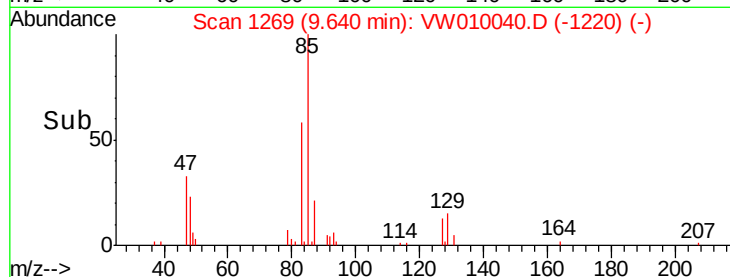
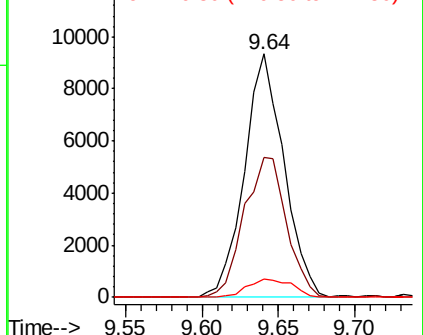
83 100

85 57.7 50.6 75.8

127 7.5 6.6 10.0



Abundance Ion 82.90 (82.60 to 83.60): VW
Ion 84.90 (84.60 to 85.60): VW
Ion 126.80 (126.50 to 127.50): VW



#48

Methyl methacrylate

Concen: 2.219 ug/l

RT: 9.43 min Scan# 1235

Delta R.T. -0.00 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

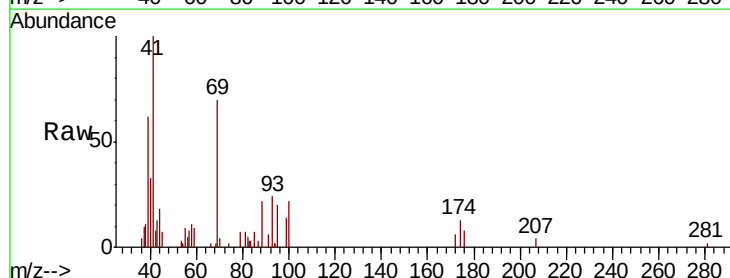
Tgt Ion: 41 Resp: 6792

Ion Ratio Lower Upper

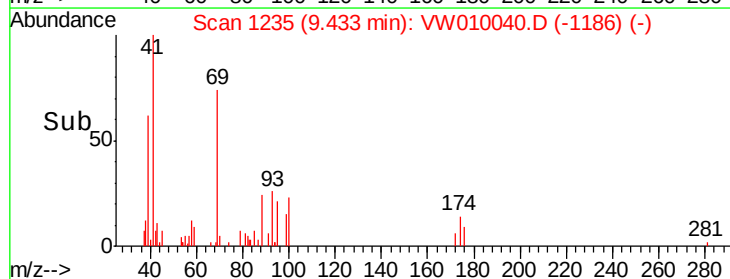
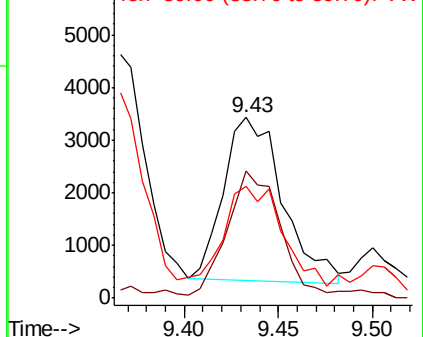
41 100

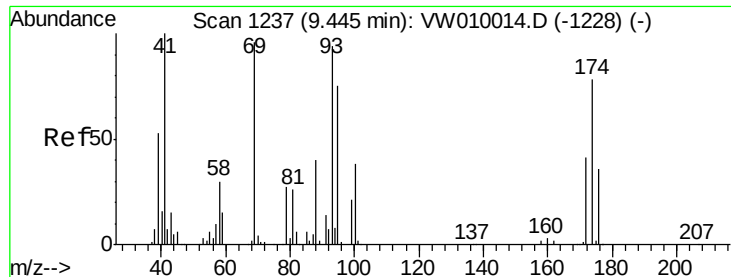
69 66.3 60.1 90.1

39 74.1 51.0 76.6



Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 39.00 (38.70 to 39.70): VW

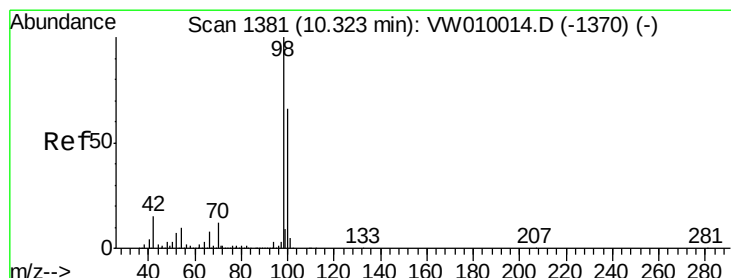
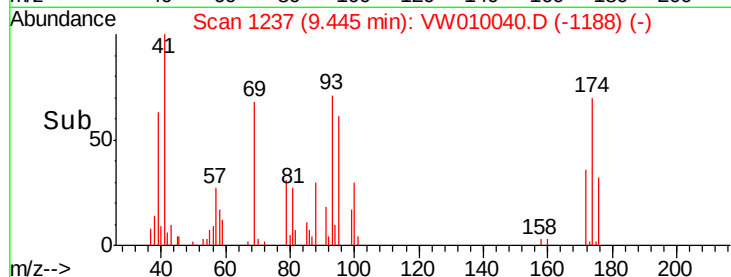
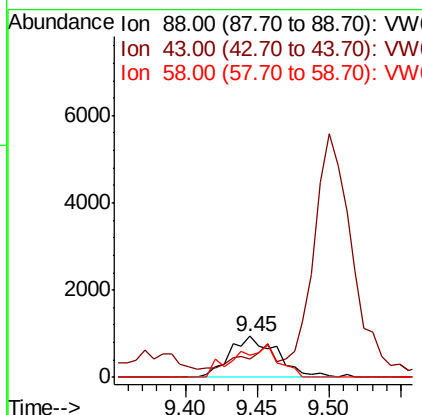
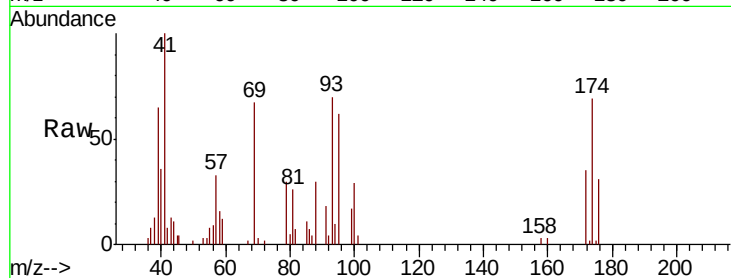




#49
1,4-Dioxane
Concen: 58.284 ug/l
RT: 9.45 min Scan# 1237
Delta R.T. -0.00 min
Lab File: VW010040.D
Acq: 18 Apr 2019 12:55

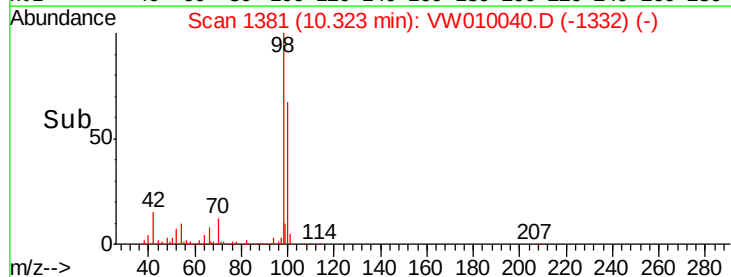
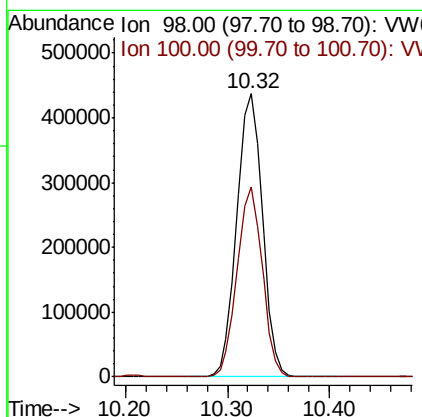
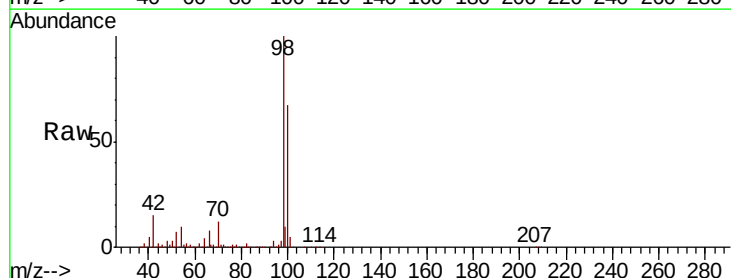
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

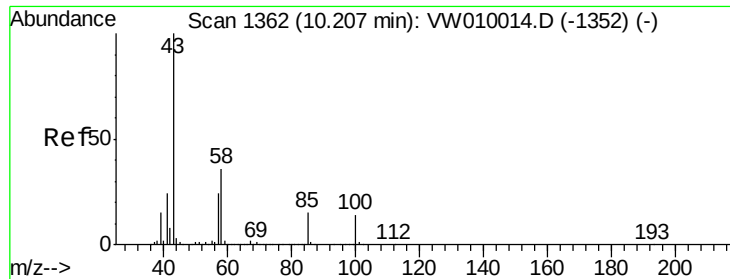
Tgt Ion: 88 Resp: 2191
Ion Ratio Lower Upper
88 100
43 58.2 31.9 47.9#
58 72.3 61.8 92.6



#50
Toluene-d8
Concen: 49.545 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW010040.D
Acq: 18 Apr 2019 12:55

Tgt Ion: 98 Resp: 763154
Ion Ratio Lower Upper
98 100
100 65.7 52.3 78.5

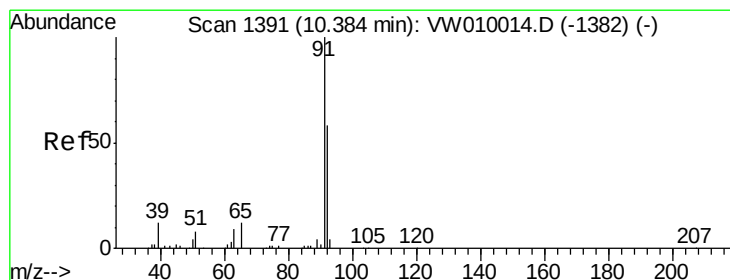
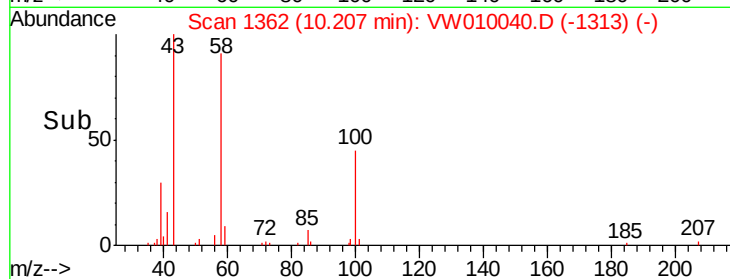
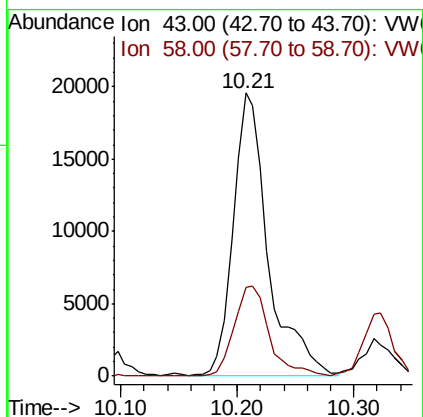
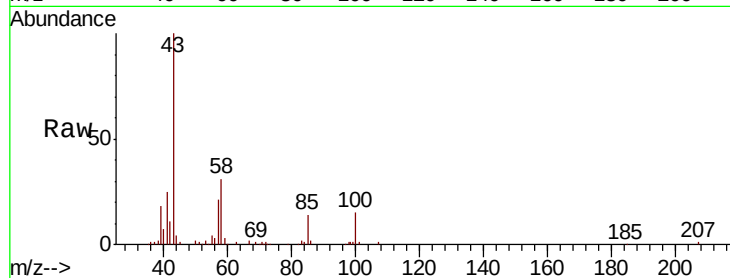




#51
 4-Methyl-2-Pentanone
 Concen: 12.318 ug/l
 RT: 10.21 min Scan# 1362
 Delta R.T. -0.00 min
 Lab File: VW010040.D
 Acq: 18 Apr 2019 12:55

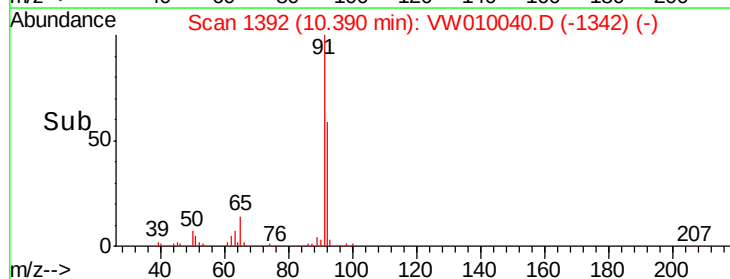
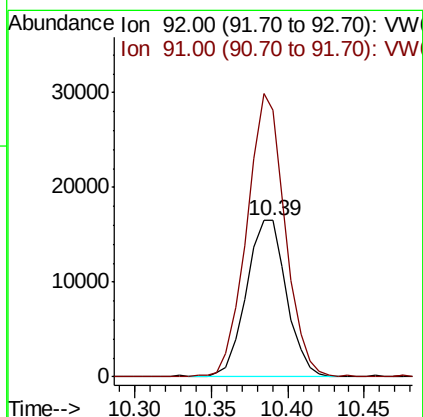
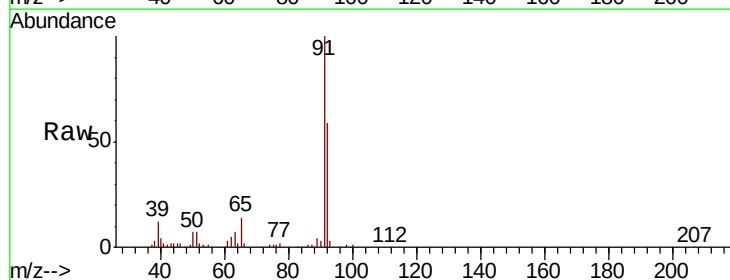
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT2-2019

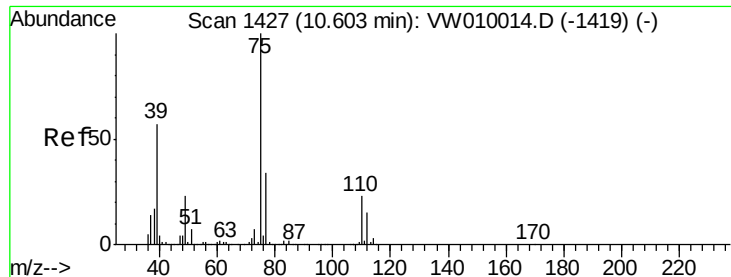
Tgt Ion: 43 Resp: 40575
 Ion Ratio Lower Upper
 43 100
 58 32.2 28.9 43.3



#52
 Toluene
 Concen: 2.684 ug/l
 RT: 10.39 min Scan# 1392
 Delta R.T. 0.01 min
 Lab File: VW010040.D
 Acq: 18 Apr 2019 12:55

Tgt Ion: 92 Resp: 30192
 Ion Ratio Lower Upper
 92 100
 91 172.5 138.5 207.7





#53

t-1,3-Dichloropropene

Concen: 2.372 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

Instrument :

MSVOA_W

ClientSampleId :

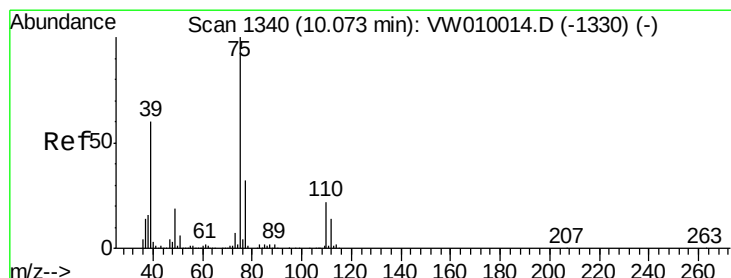
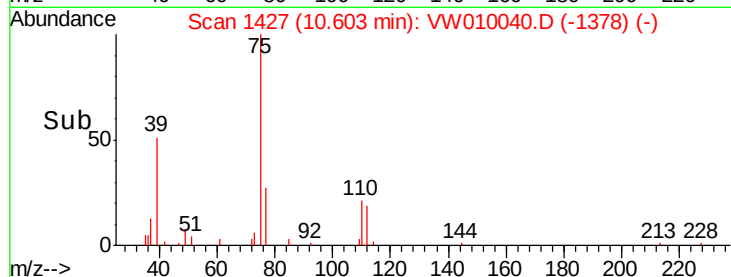
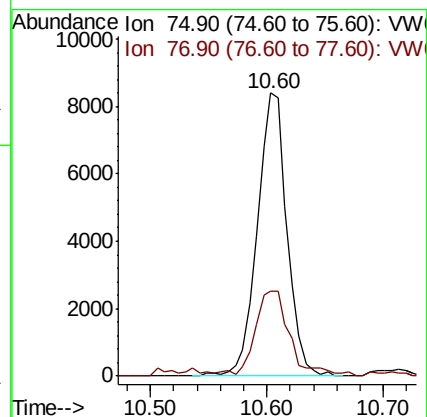
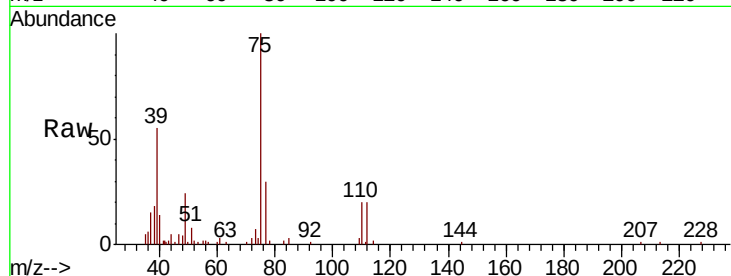
MDL-MDL-SOIL-03-QT2-2019

Tgt Ion: 75 Resp: 14934

Ion Ratio Lower Upper

75 100

77 29.4 26.9 40.3



#54

cis-1,3-Dichloropropene

Concen: 2.383 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

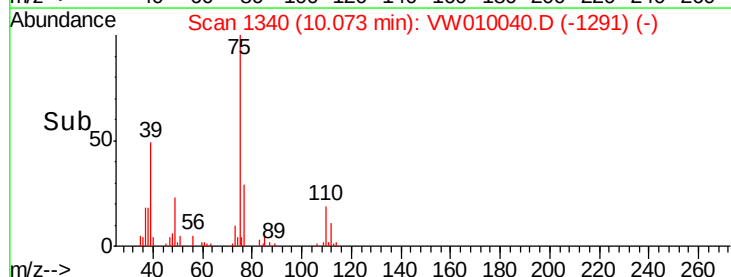
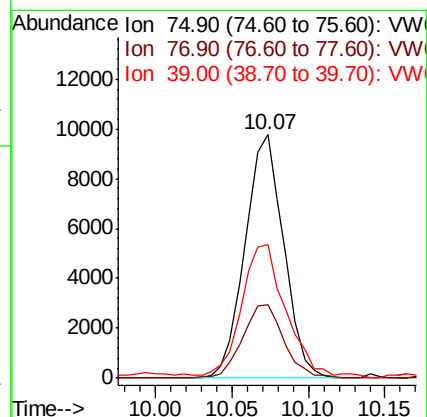
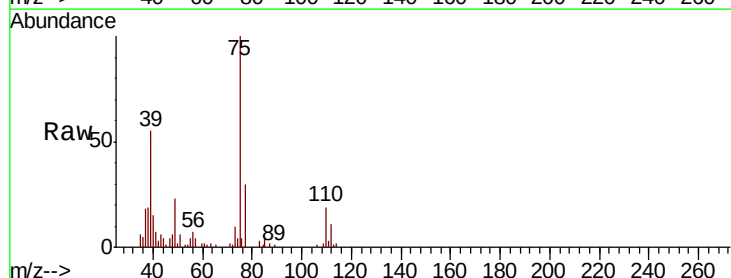
Tgt Ion: 75 Resp: 17132

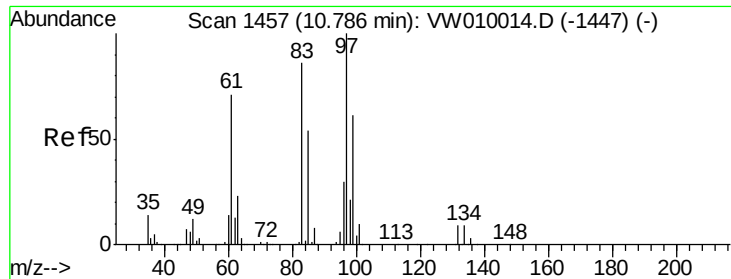
Ion Ratio Lower Upper

75 100

77 29.9 25.6 38.4

39 53.2 47.8 71.6





#55

1,1,2-Trichloroethane

Concen: 2.574 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

Tgt Ion: 97 Resp: 8840

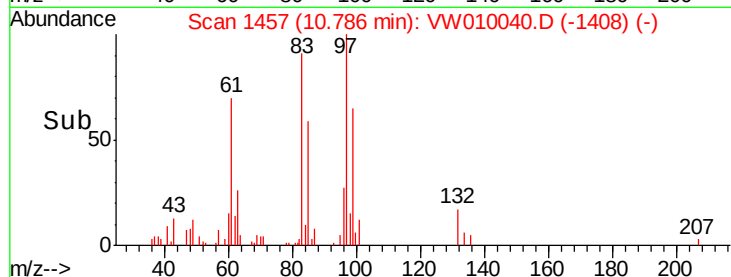
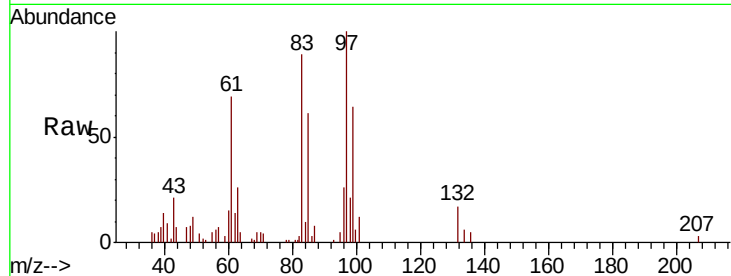
Ion Ratio Lower Upper

97 100

83 89.3 68.9 103.3

85 61.0 42.9 64.3

99 64.0 48.6 72.8

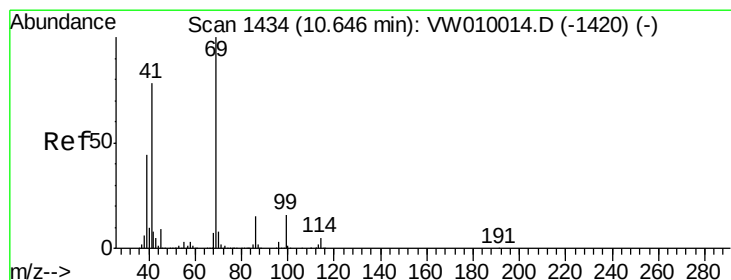
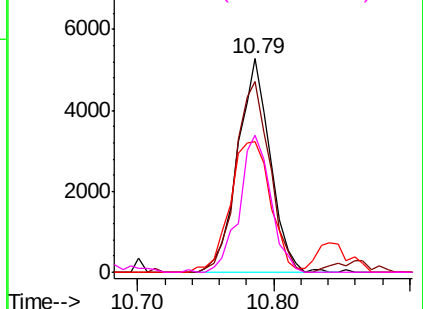


Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



#56

Ethyl methacrylate

Concen: 4.388 ug/l

RT: 10.65 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

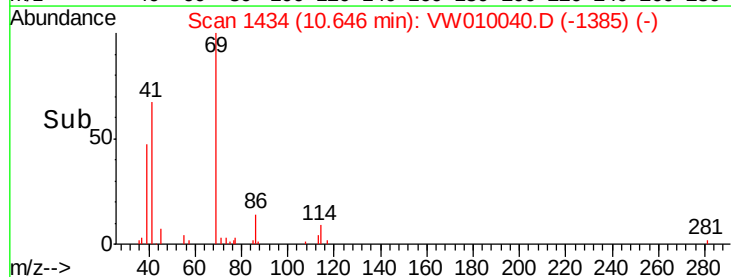
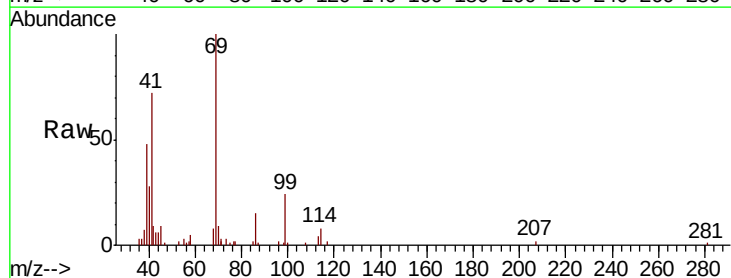
Tgt Ion: 69 Resp: 8795

Ion Ratio Lower Upper

69 100

41 77.2 61.0 91.6

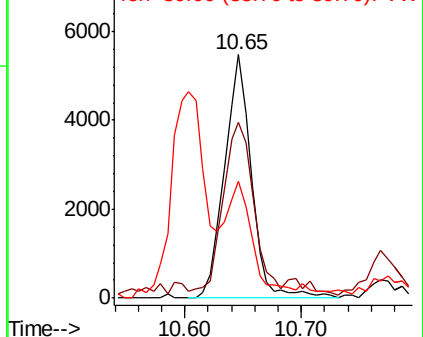
39 41.0 33.8 50.6

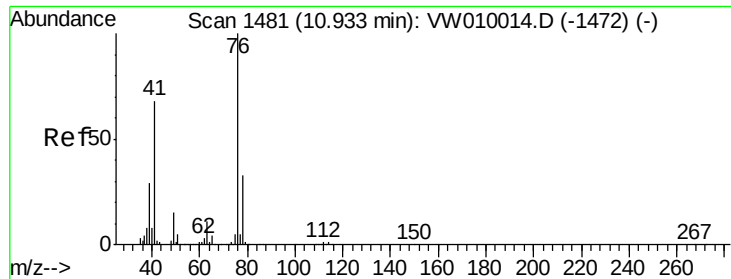


Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

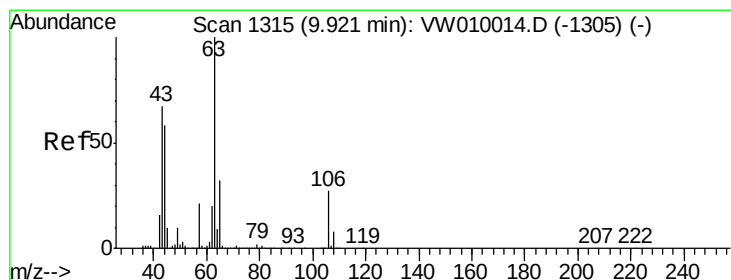
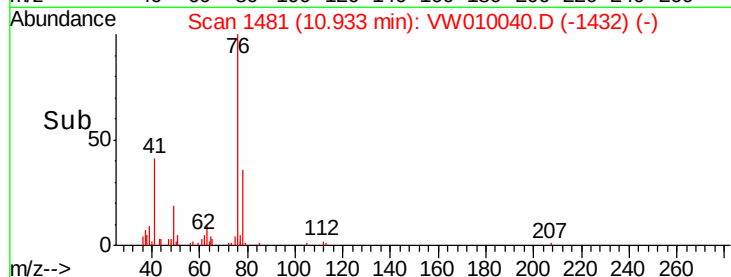
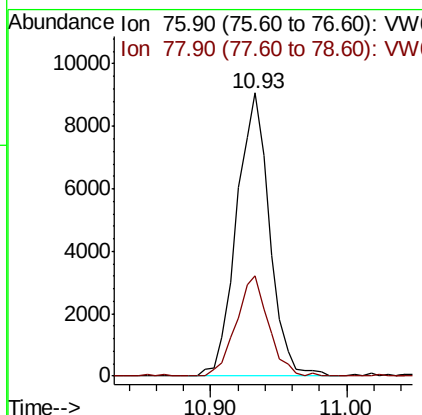
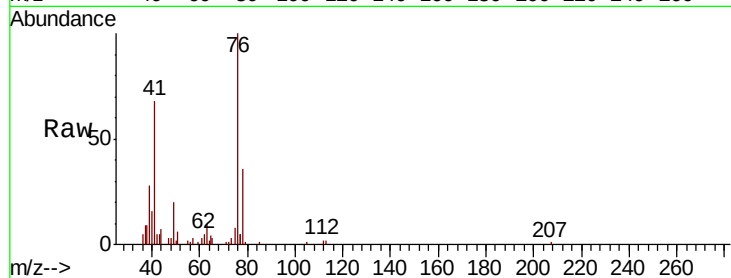




#57
 1,3-Dichloropropane
 Concen: 2.478 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. -0.00 min
 Lab File: VW010040.D
 Acq: 18 Apr 2019 12:55

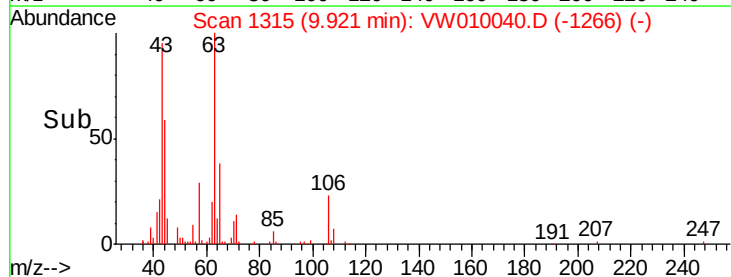
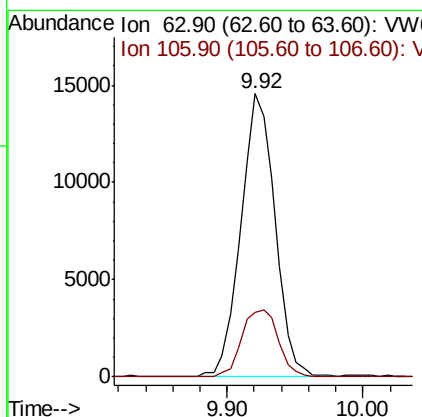
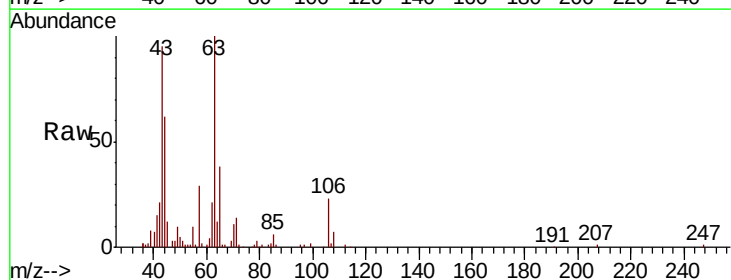
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT2-2019

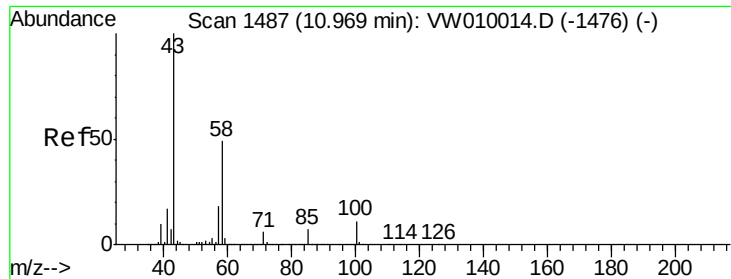
Tgt Ion: 76 Resp: 15250
 Ion Ratio Lower Upper
 76 100
 78 35.1 25.8 38.8



#58
 2-Chloroethyl Vinyl ether
 Concen: 12.472 ug/l
 RT: 9.92 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VW010040.D
 Acq: 18 Apr 2019 12:55

Tgt Ion: 63 Resp: 25590
 Ion Ratio Lower Upper
 63 100
 106 25.2 21.4 32.0





#59

2-Hexanone

Concen: 11.118 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

Instrument :

MSVOA_W

ClientSampleId :

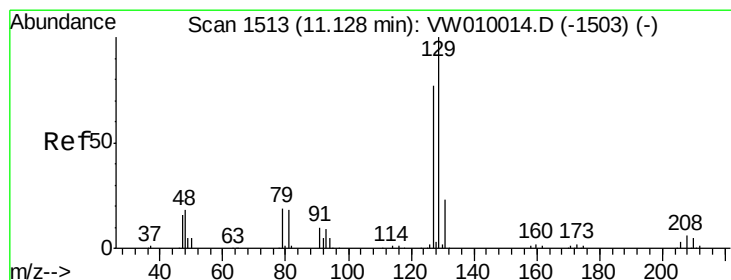
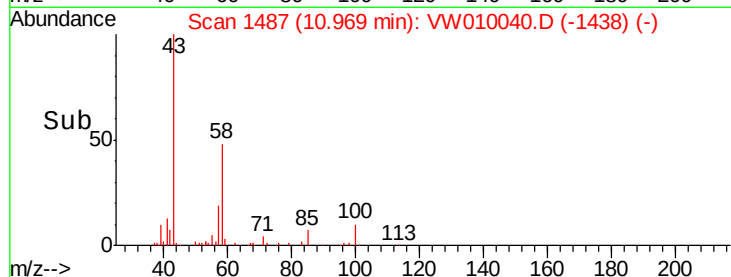
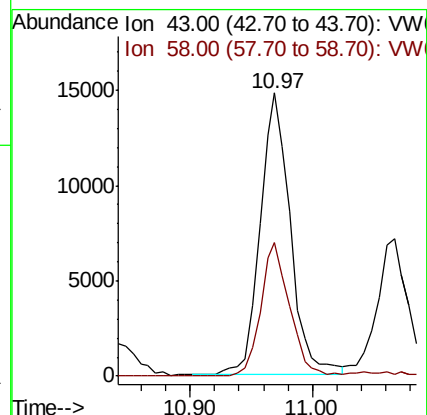
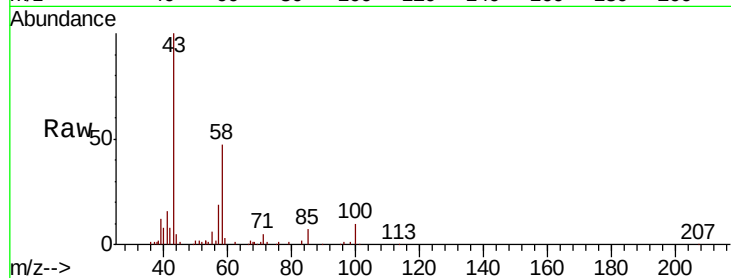
MDL-MDL-SOIL-03-QT2-2019

Tgt Ion: 43 Resp: 25492

Ion Ratio Lower Upper

43 100

58 45.4 24.9 74.7



#60

Dibromochloromethane

Concen: 2.440 ug/l

RT: 11.13 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VW010040.D

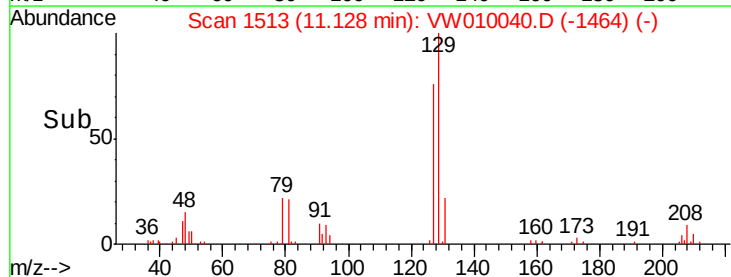
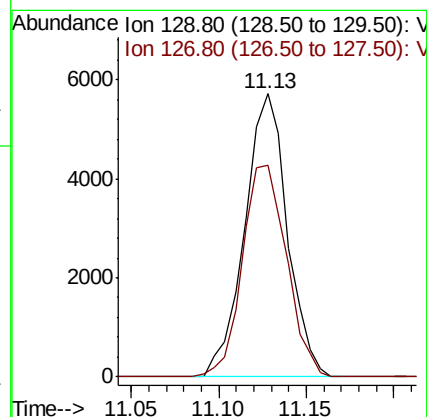
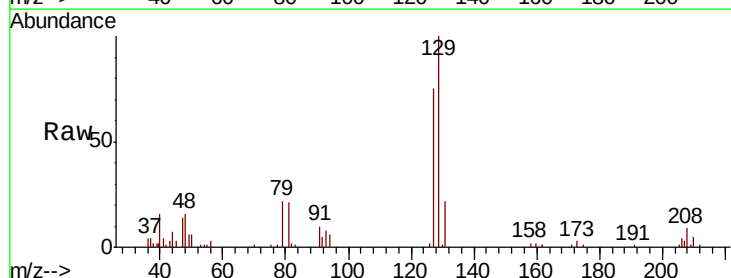
Acq: 18 Apr 2019 12:55

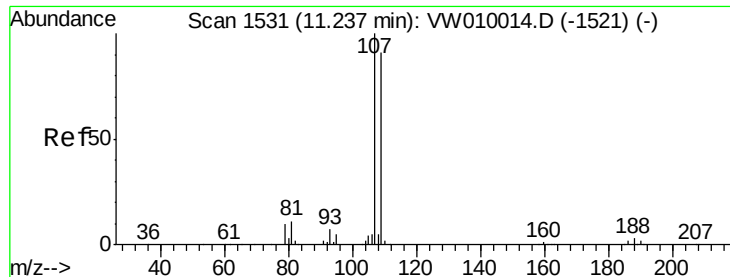
Tgt Ion: 129 Resp: 9684

Ion Ratio Lower Upper

129 100

127 77.5 38.6 116.0





#61

1,2-Dibromoethane

Concen: 2.411 ug/l

RT: 11.23 min Scan# 1530

Delta R.T. -0.01 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

Instrument :

MSVOA_W

ClientSampleId :

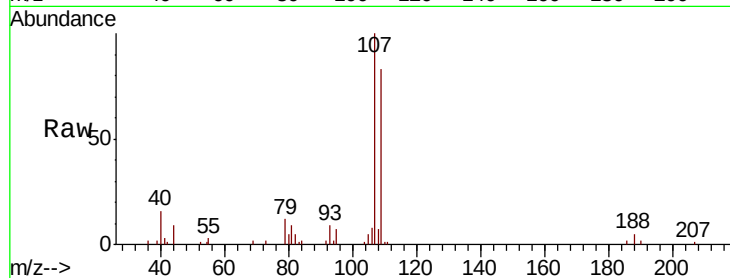
MDL-MDL-SOIL-03-QT2-2019

Tgt Ion: 107 Resp: 7875

Ion Ratio Lower Upper

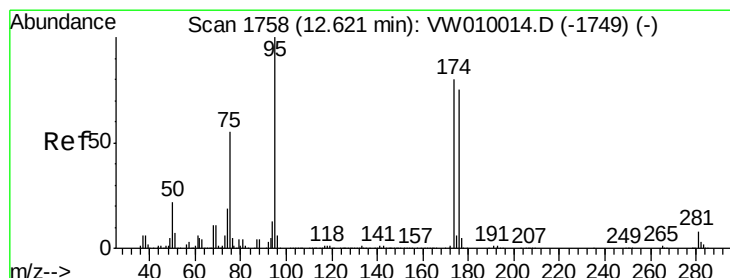
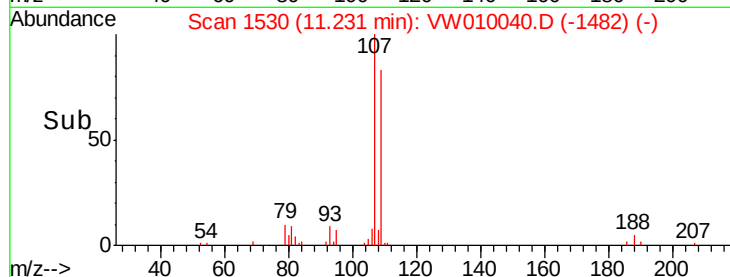
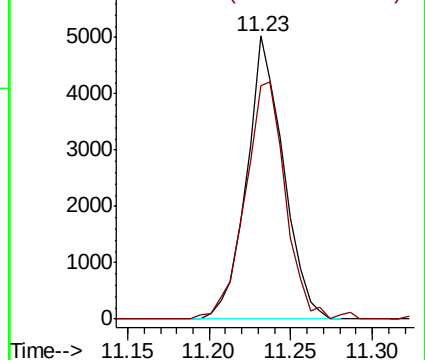
107 100

109 92.1 73.6 110.4



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 46.605 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

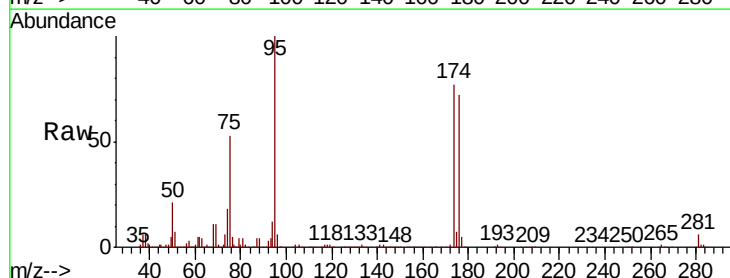
Tgt Ion: 95 Resp: 260945

Ion Ratio Lower Upper

95 100

174 75.5 0.0 151.4

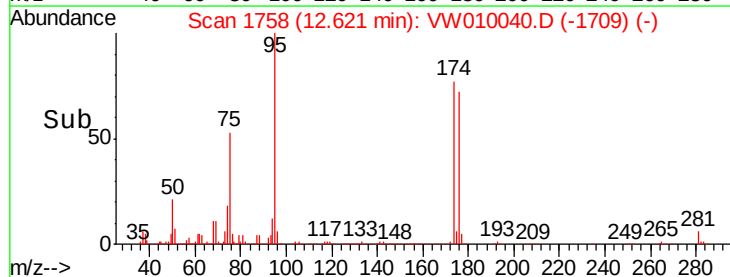
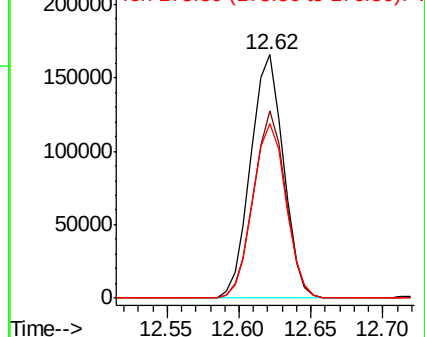
176 72.8 0.0 146.2

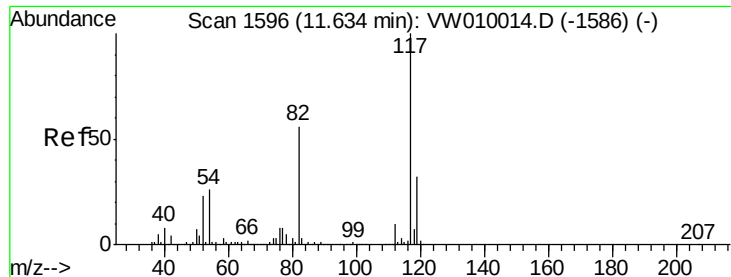


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

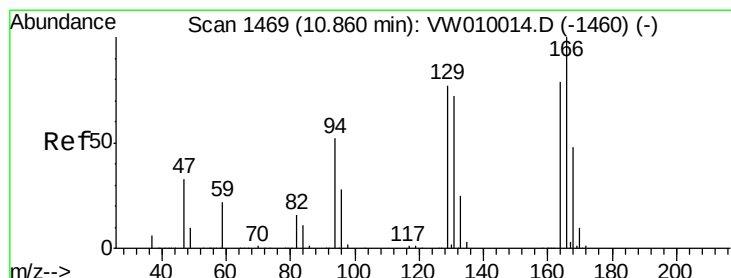
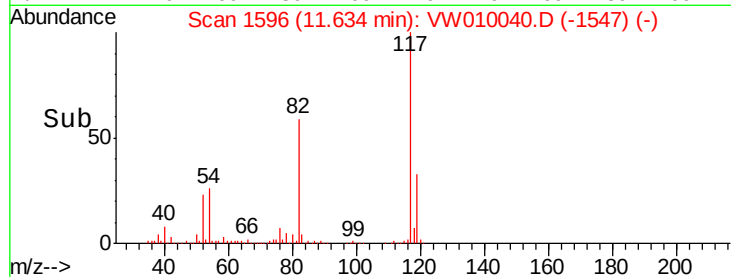
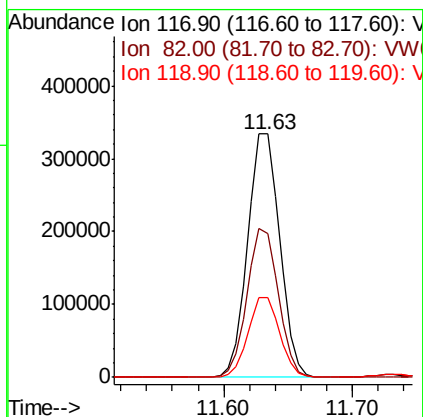
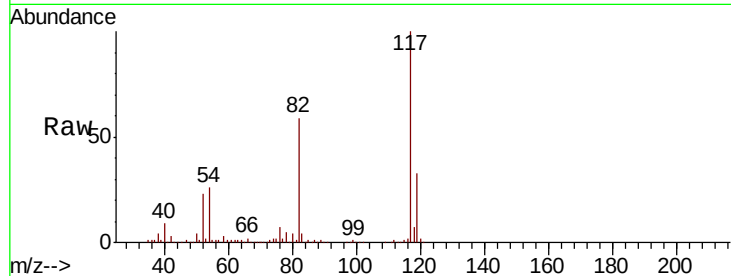




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW010040.D
Acq: 18 Apr 2019 12:55

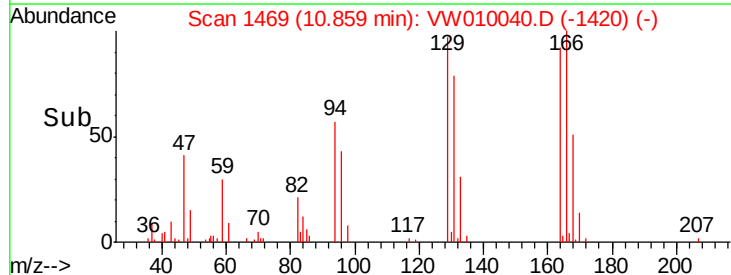
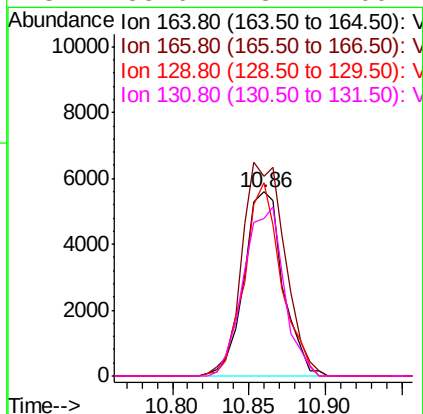
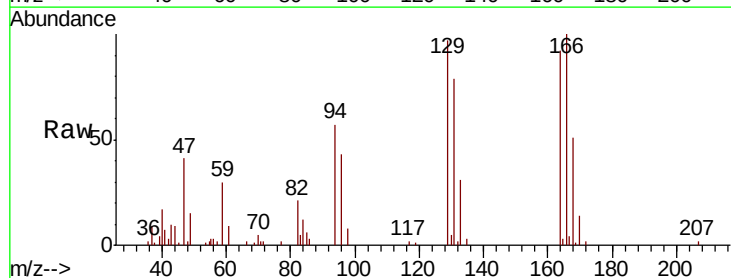
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

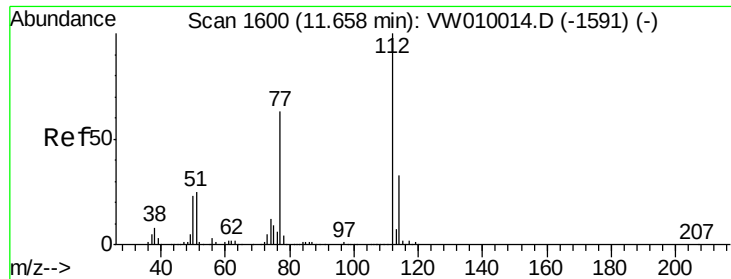
Tgt Ion:117 Resp: 574392
Ion Ratio Lower Upper
117 100
82 58.9 45.2 67.8
119 32.5 25.4 38.2



#64
Tetrachloroethene
Concen: 2.657 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW010040.D
Acq: 18 Apr 2019 12:55

Tgt Ion:164 Resp: 9909
Ion Ratio Lower Upper
164 100
166 108.7 101.2 151.8
129 105.0 77.8 116.6
131 85.6 73.1 109.7

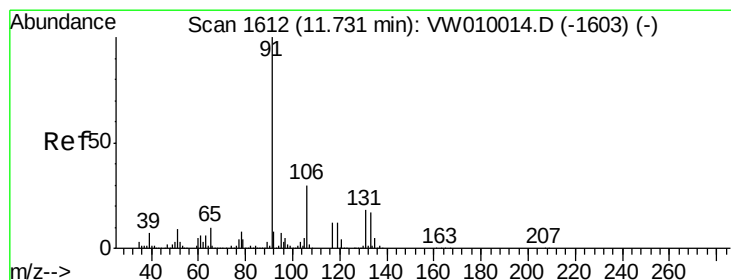
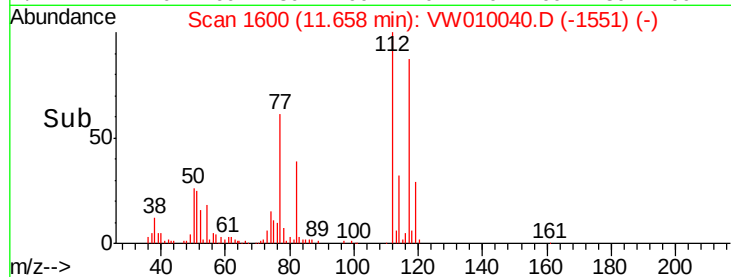
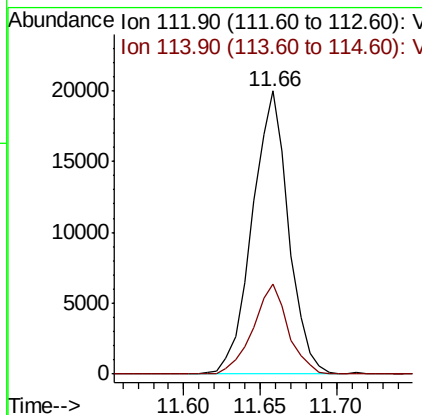
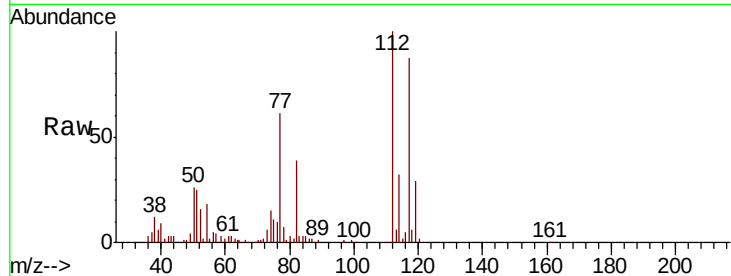




#65
Chlorobenzene
Concen: 2.795 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW010040.D
Acq: 18 Apr 2019 12:55

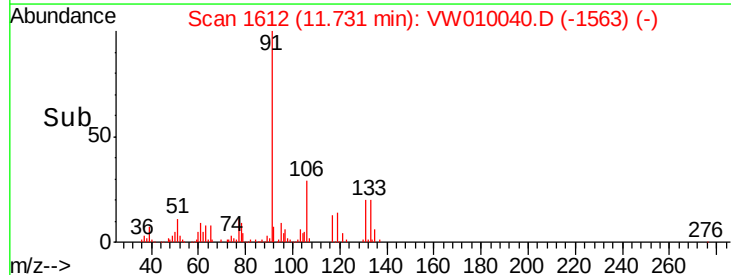
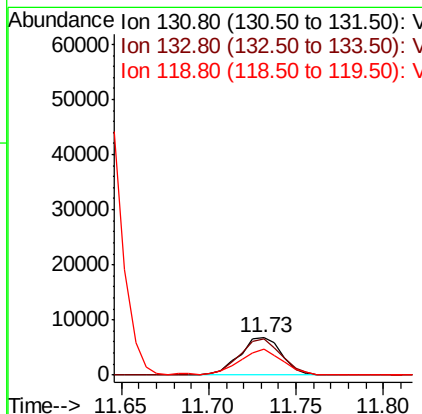
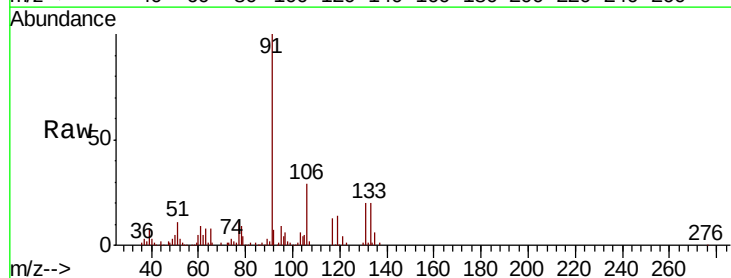
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

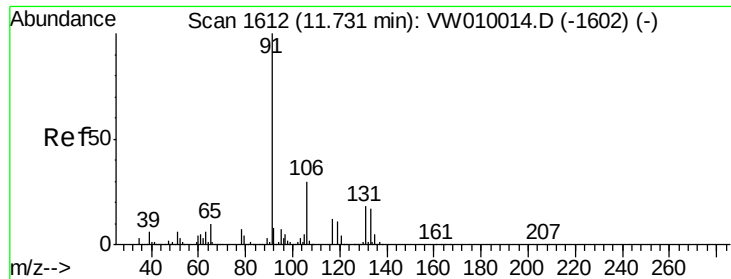
Tgt Ion:112 Resp: 32860
Ion Ratio Lower Upper
112 100
114 31.8 26.5 39.7



#66
1,1,1,2-Tetrachloroethane
Concen: 2.733 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW010040.D
Acq: 18 Apr 2019 12:55

Tgt Ion:131 Resp: 11492
Ion Ratio Lower Upper
131 100
133 97.3 46.5 139.5
119 70.7 31.9 95.5

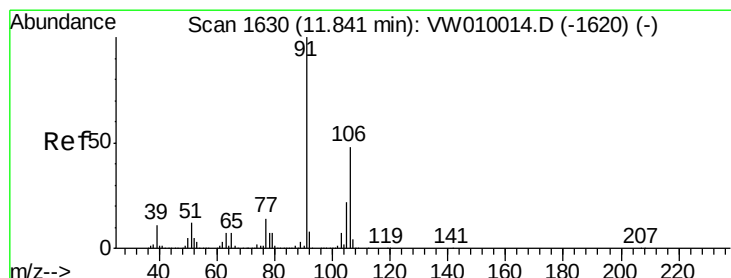
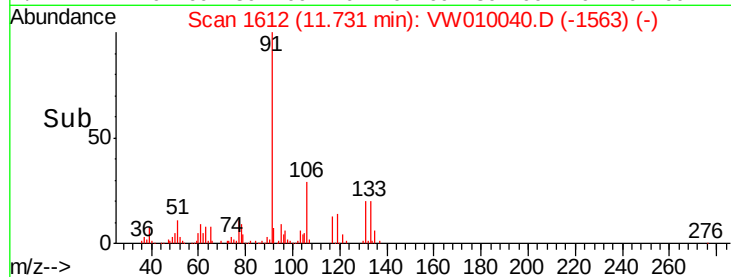
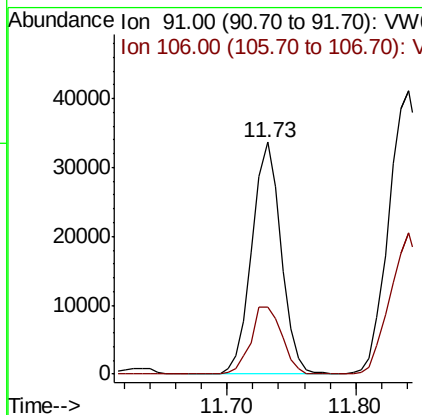
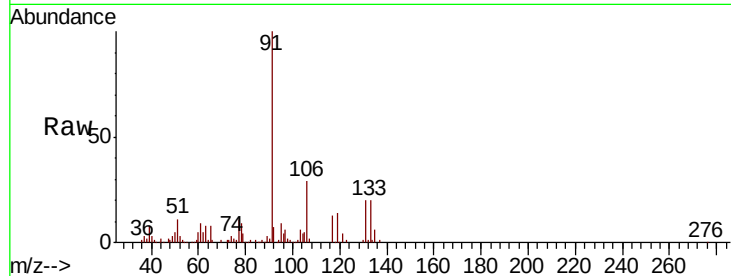




#67
Ethyl Benzene
Concen: 2.509 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW010040.D
Acq: 18 Apr 2019 12:55

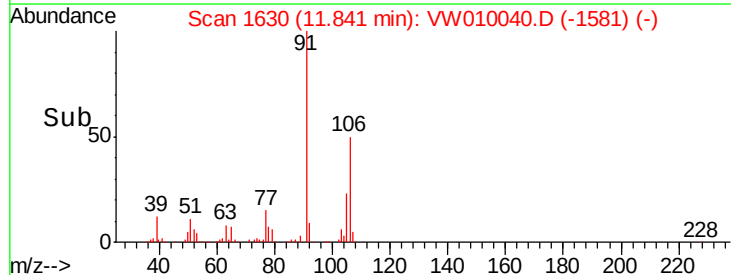
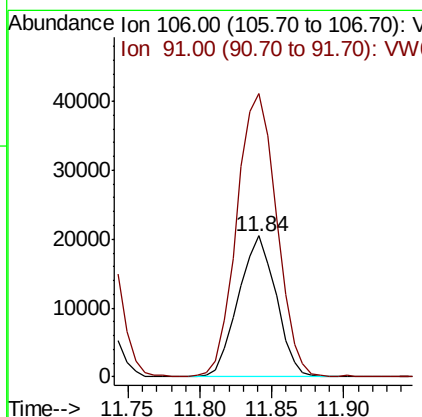
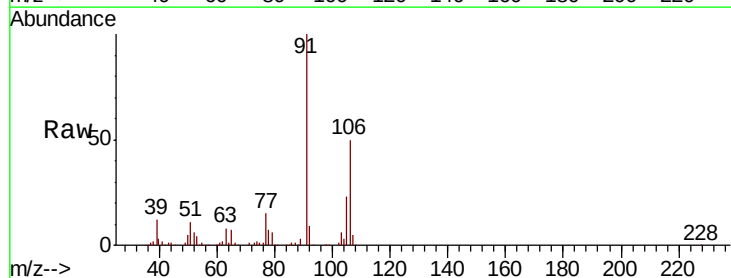
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

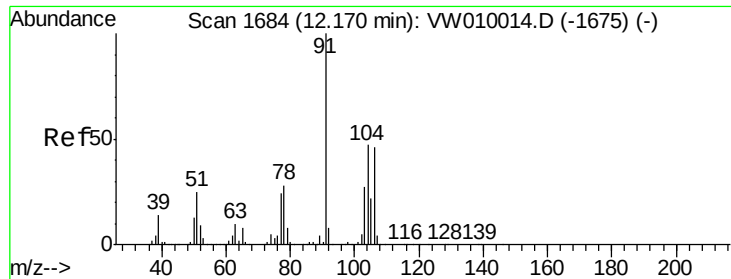
Tgt Ion: 91 Resp: 52617
Ion Ratio Lower Upper
91 100
106 28.9 23.8 35.8



#68
m/p-Xylenes
Concen: 4.752 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW010040.D
Acq: 18 Apr 2019 12:55

Tgt Ion: 106 Resp: 37255
Ion Ratio Lower Upper
106 100
91 212.0 165.0 247.6

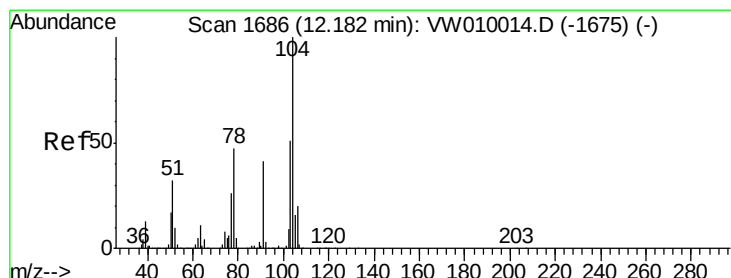
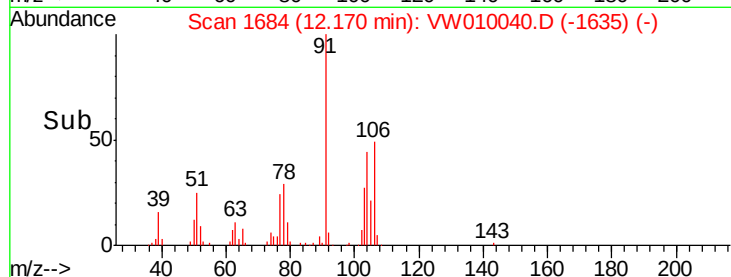
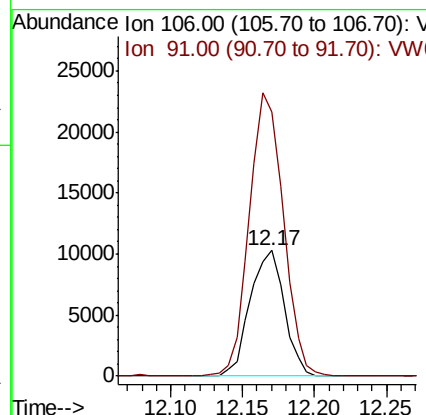
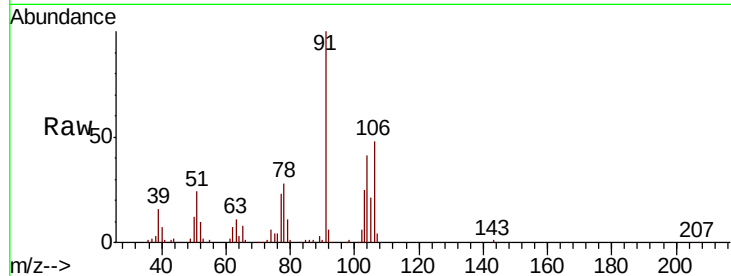




#69
o-Xylene
Concen: 2.371 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW010040.D
Acq: 18 Apr 2019 12:55

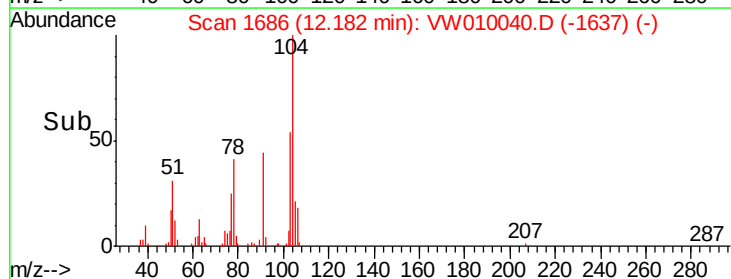
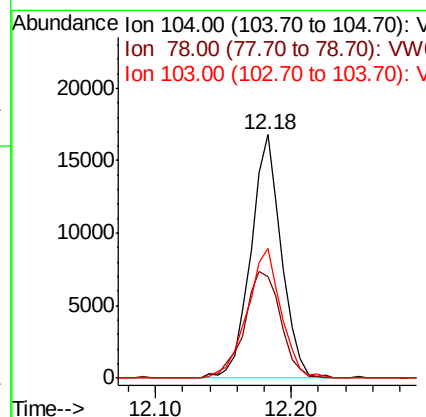
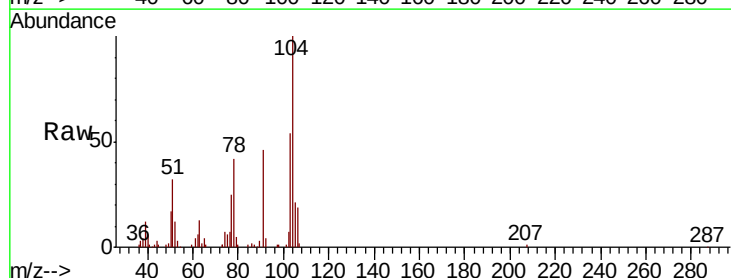
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

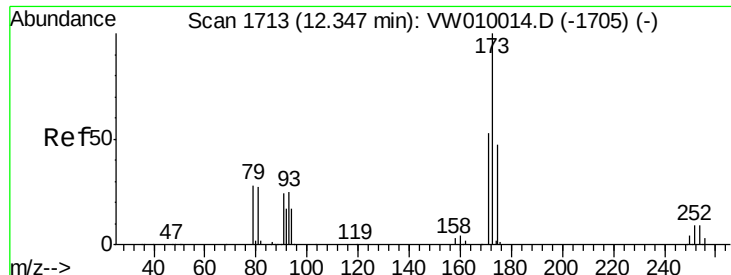
Tgt Ion:106 Resp: 16926
Ion Ratio Lower Upper
106 100
91 224.5 110.5 331.4



#70
Styrene
Concen: 2.140 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW010040.D
Acq: 18 Apr 2019 12:55

Tgt Ion:104 Resp: 26343
Ion Ratio Lower Upper
104 100
78 52.3 42.5 63.7
103 59.3 43.6 65.4





#71

Bromoform

Concen: 2.512 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

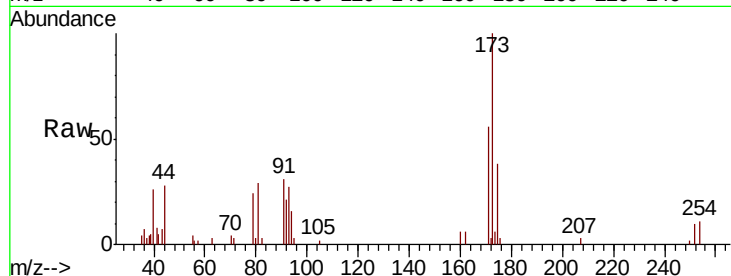
Tgt Ion:173 Resp: 5585

Ion Ratio Lower Upper

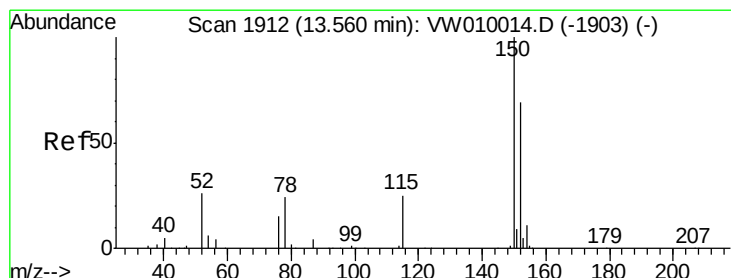
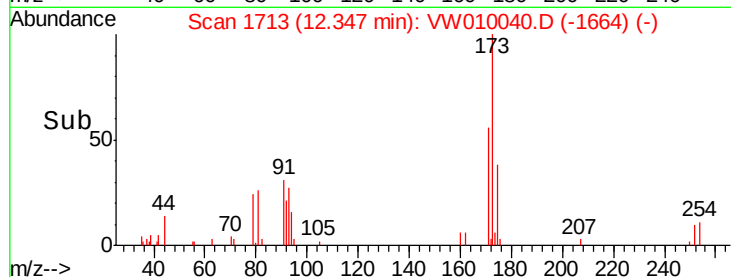
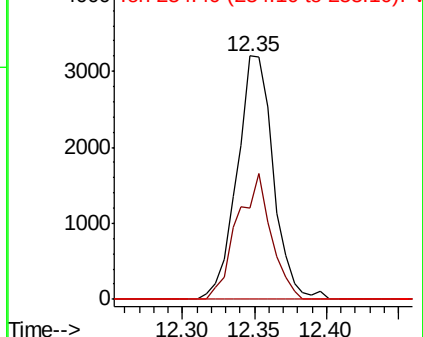
173 100

175 49.0 23.8 71.4

254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

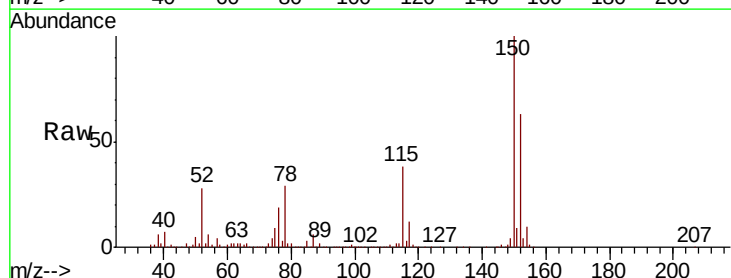
Tgt Ion:152 Resp: 282151

Ion Ratio Lower Upper

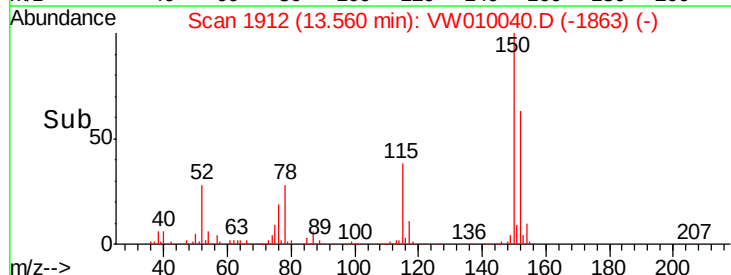
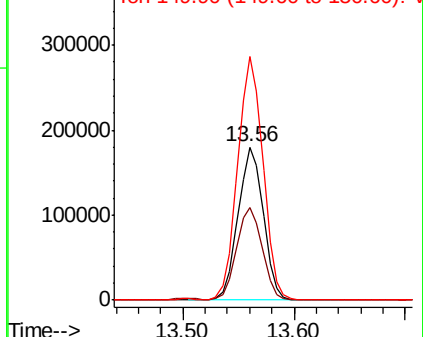
152 100

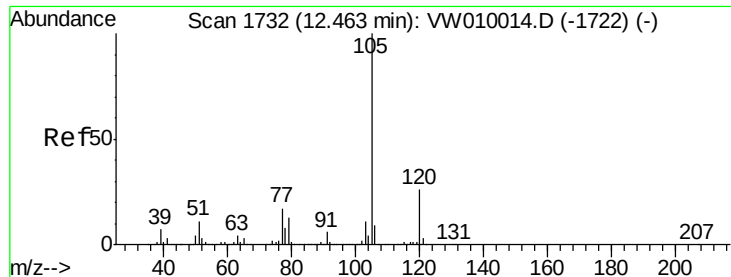
115 61.2 30.4 91.2

150 159.8 0.0 347.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 2.379 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

Instrument :

MSVOA_W

ClientSampleId :

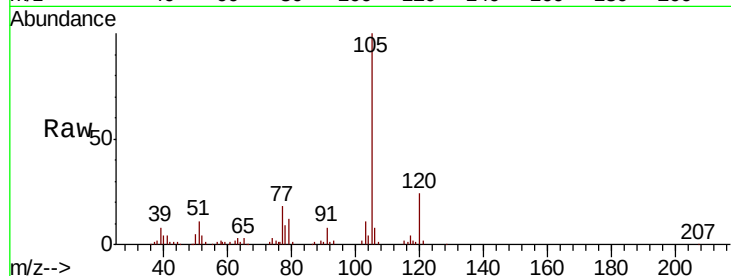
MDL-MDL-SOIL-03-QT2-2019

Tgt Ion: 105 Resp: 46726

Ion Ratio Lower Upper

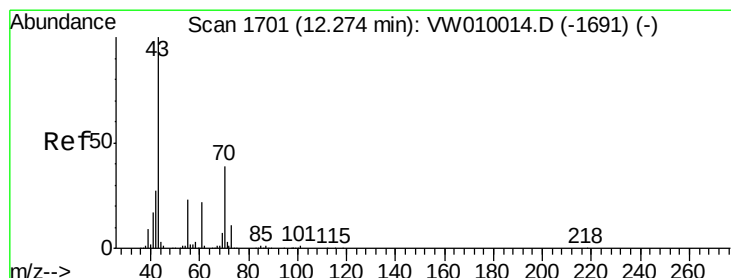
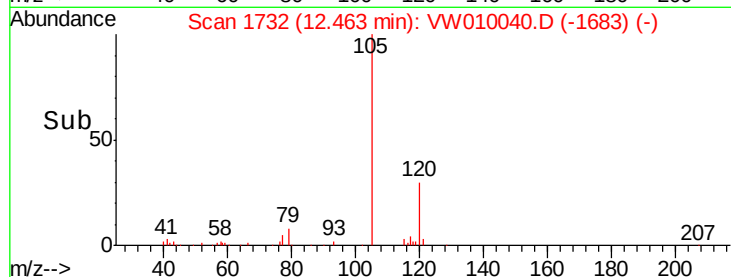
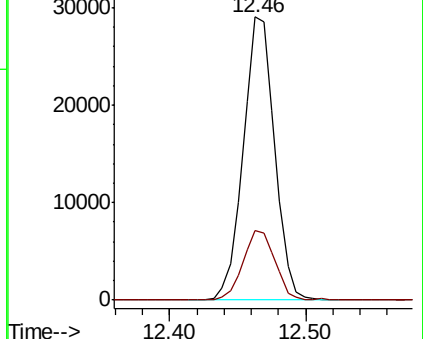
105 100

120 24.9 13.1 39.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 2.109 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

Tgt Ion: 43 Resp: 11470

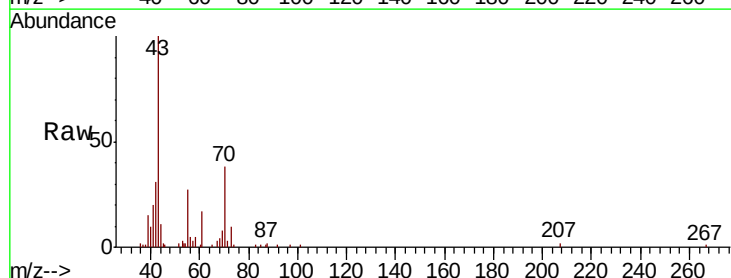
Ion Ratio Lower Upper

43 100

70 40.4 31.3 46.9

55 29.2 20.0 30.0

61 22.1 17.8 26.8

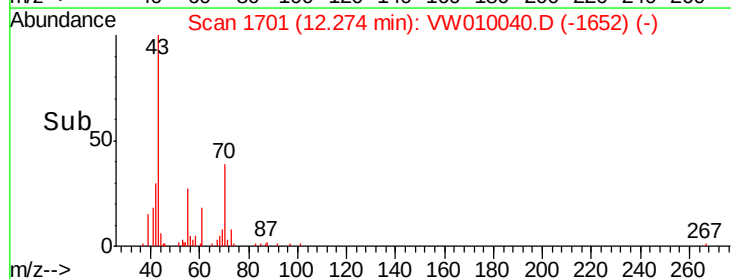
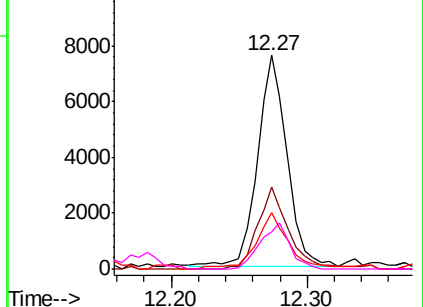


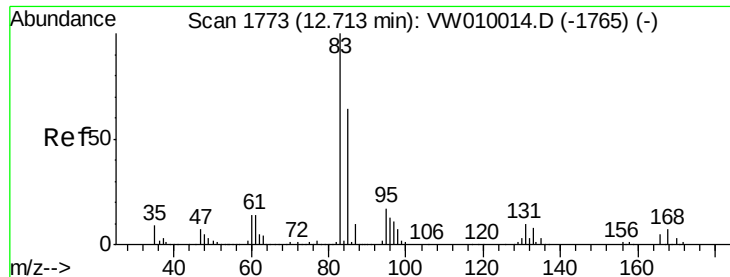
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW





#75

1,1,2,2-Tetrachloroethane

Concen: 2.763 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

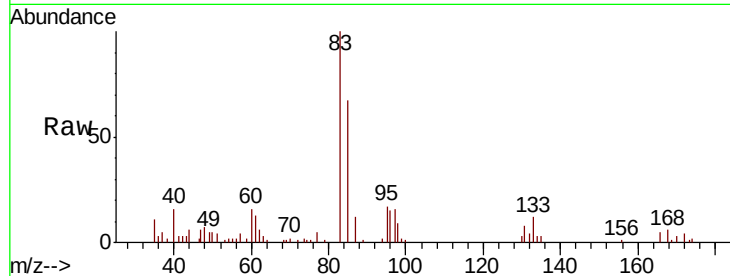
Tgt Ion: 83 Resp: 10719

Ion Ratio Lower Upper

83 100

131 12.8 5.3 15.8

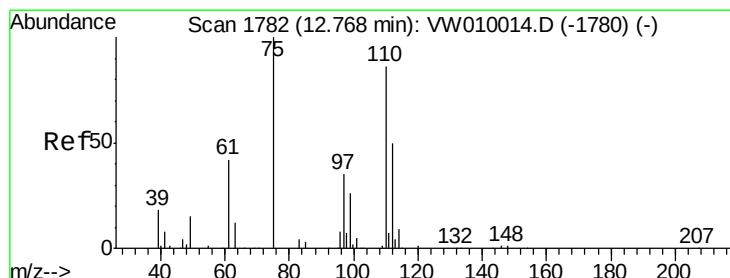
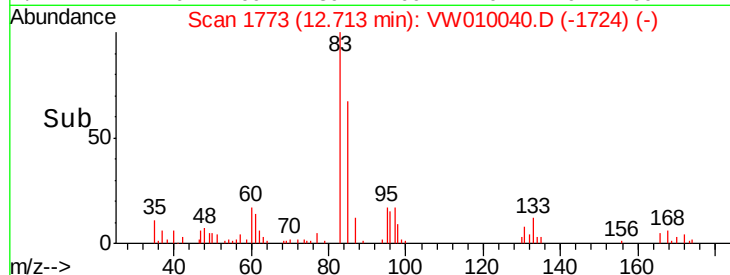
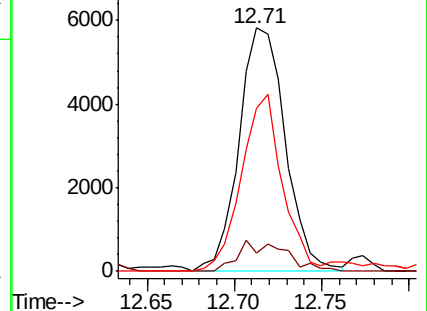
85 63.9 32.0 96.2



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 4.925 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. -0.00 min

Lab File: VW010040.D

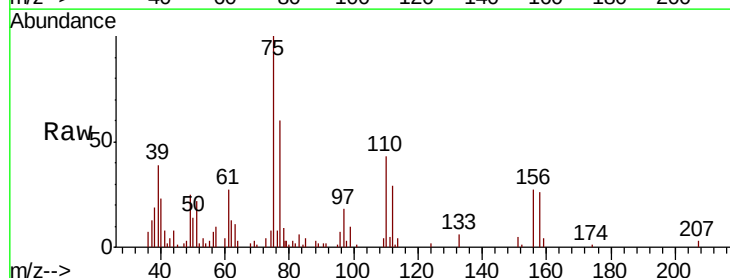
Acq: 18 Apr 2019 12:55

Tgt Ion: 75 Resp: 13908

Ion Ratio Lower Upper

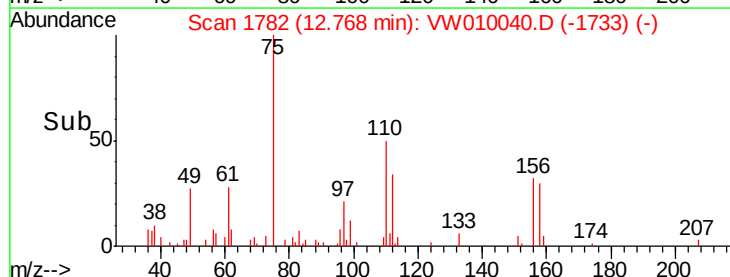
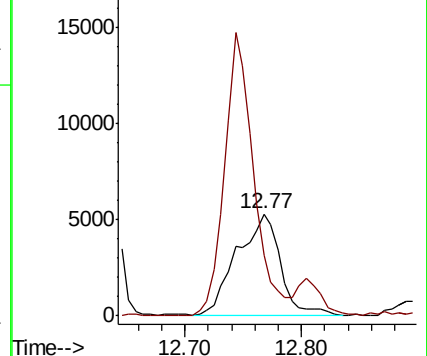
75 100

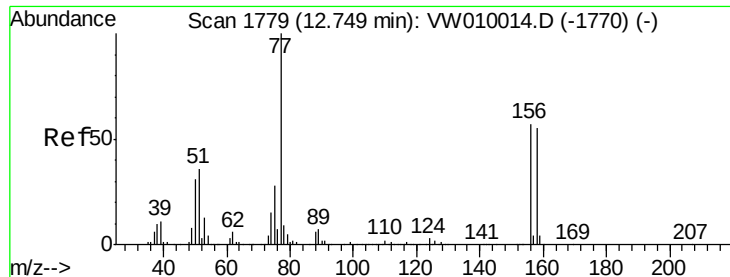
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 2.717 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

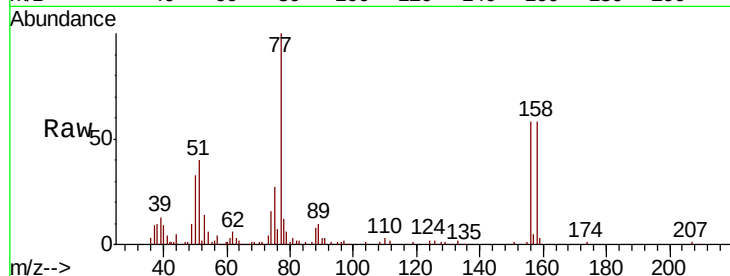
Tgt Ion:156 Resp: 12271

Ion Ratio Lower Upper

156 100

77 206.4 102.5 307.4

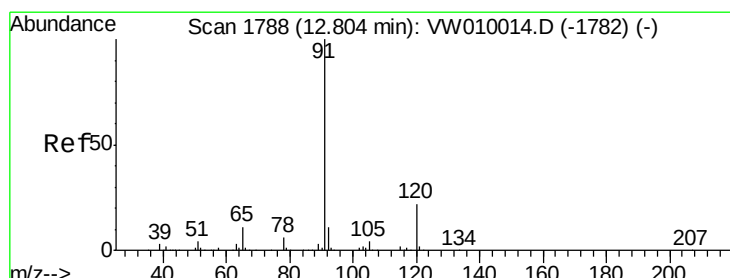
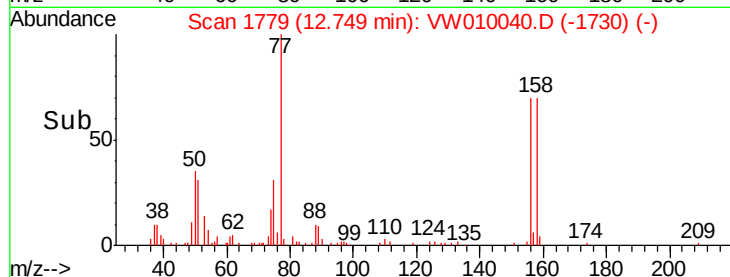
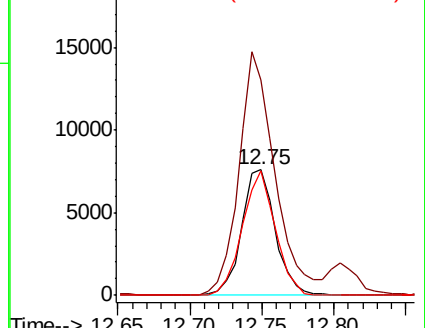
158 97.3 48.8 146.4



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 2.635 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW010040.D

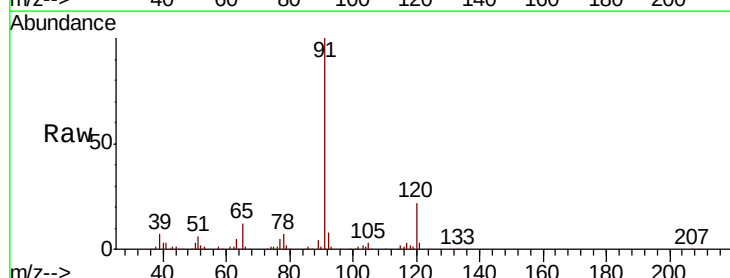
Acq: 18 Apr 2019 12:55

Tgt Ion: 91 Resp: 64129

Ion Ratio Lower Upper

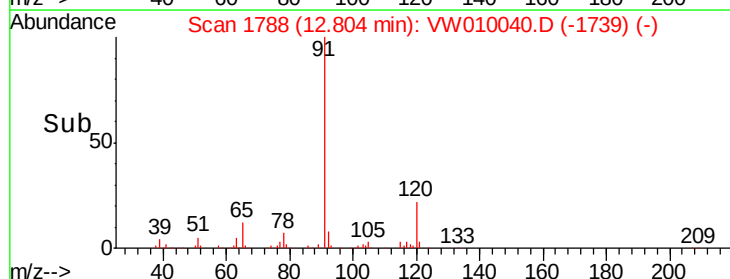
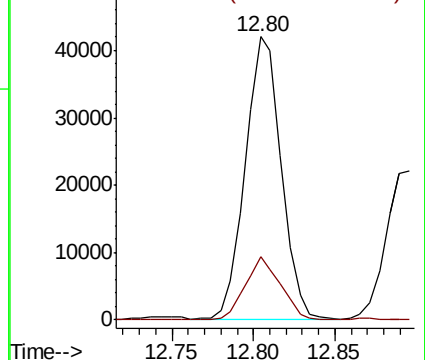
91 100

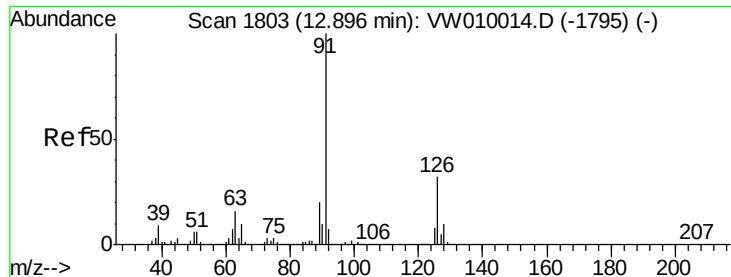
120 22.1 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 2.604 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

Instrument :

MSVOA_W

ClientSampleId :

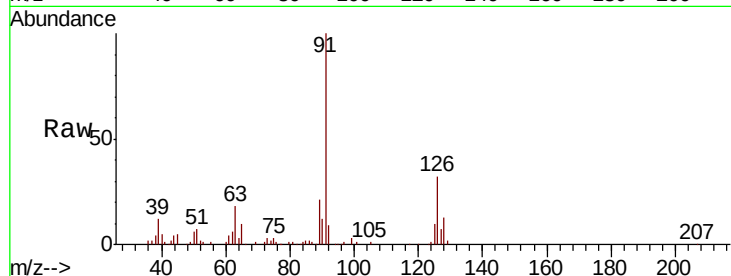
MDL-MDL-SOIL-03-QT2-2019

Tgt Ion: 91 Resp: 36443

Ion Ratio Lower Upper

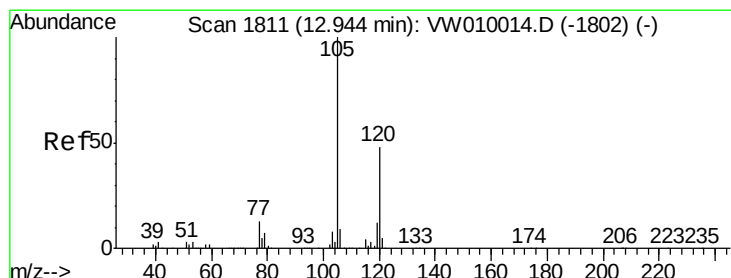
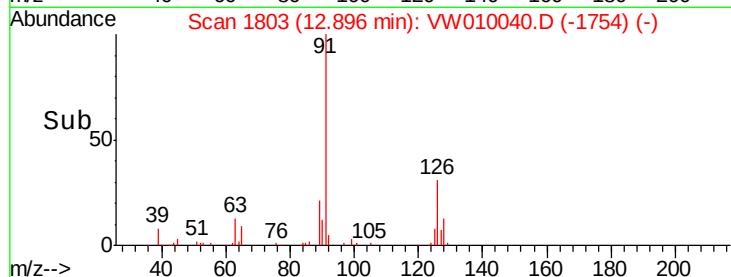
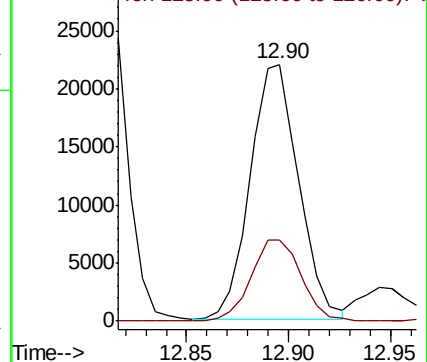
91 100

126 33.0 16.3 48.8



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 2.476 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW010040.D

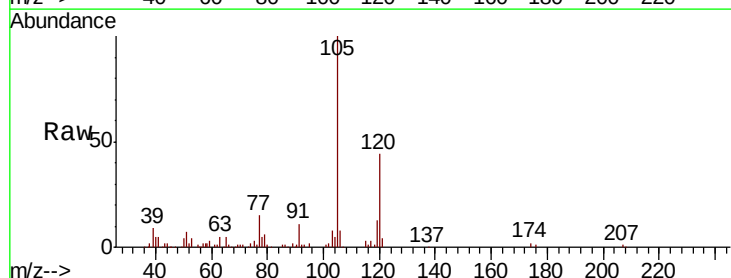
Acq: 18 Apr 2019 12:55

Tgt Ion: 105 Resp: 41225

Ion Ratio Lower Upper

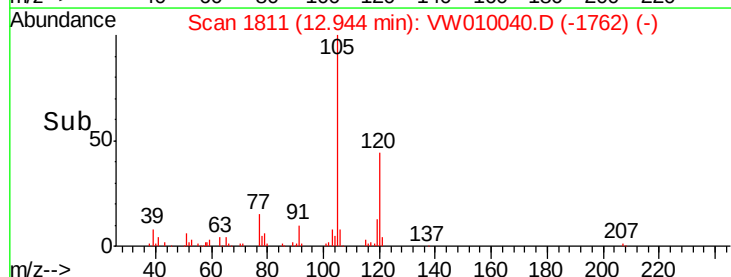
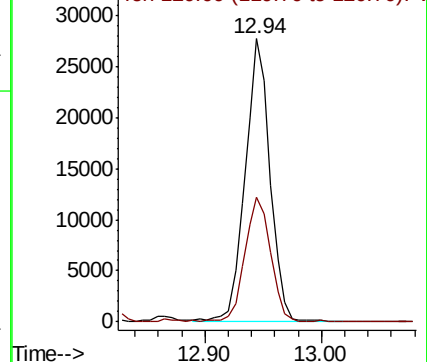
105 100

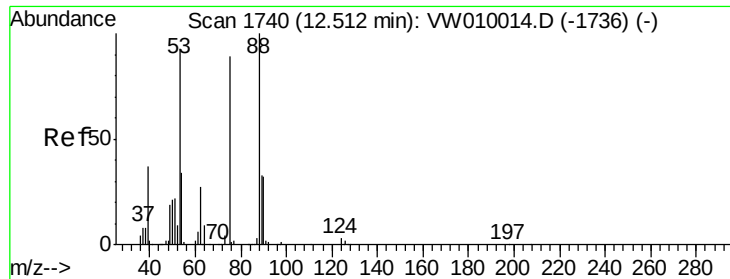
120 46.0 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

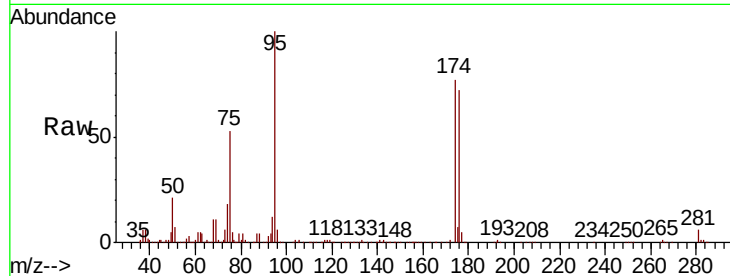




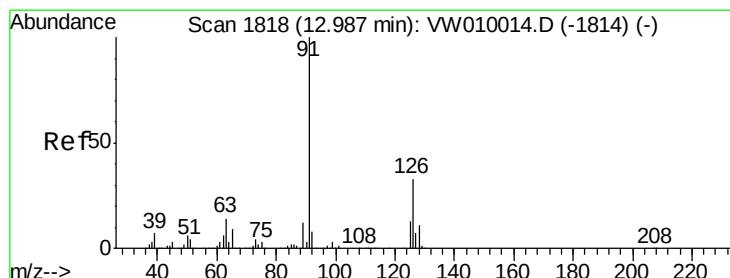
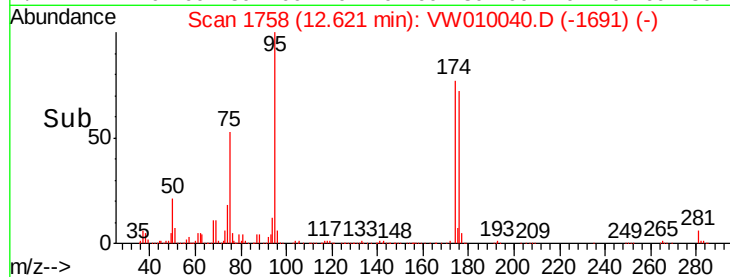
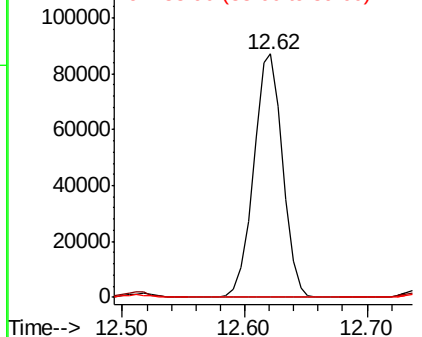
#81
trans-1,4-Dichloro-2-butene
Concen: 119.608 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.11 min
Lab File: VW010040.D
Acq: 18 Apr 2019 12:55

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

Tgt Ion: 75 Resp: 143244
Ion Ratio Lower Upper
75 100
53 0.1 89.8 134.8#
89 0.2 36.6 54.8#

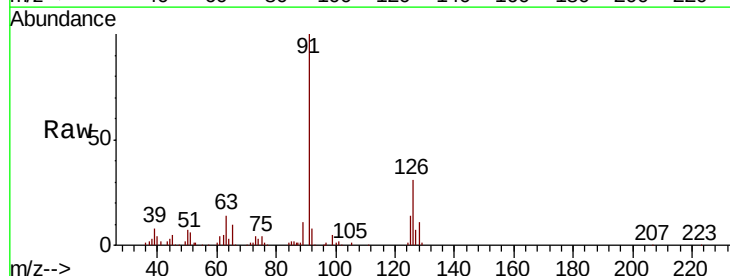


Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 53.00 (52.70 to 53.70): VW
Ion 88.90 (88.60 to 89.60): VW

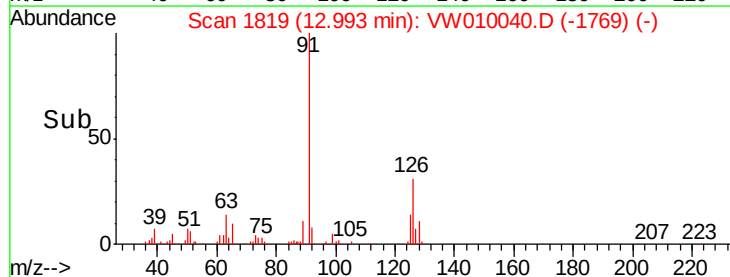
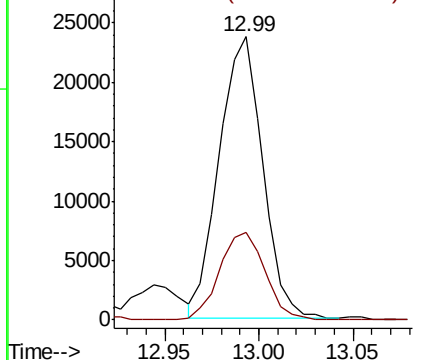


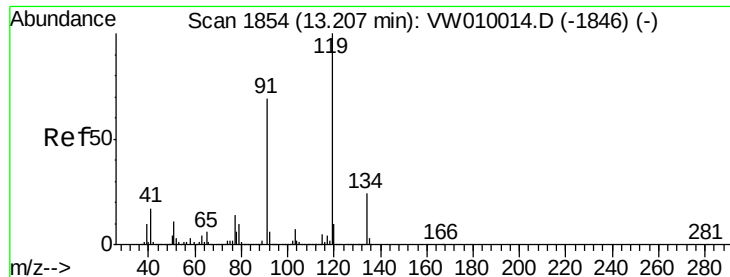
#82
4-Chlorotoluene
Concen: 2.581 ug/l
RT: 12.99 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VW010040.D
Acq: 18 Apr 2019 12:55

Tgt Ion: 91 Resp: 38019
Ion Ratio Lower Upper
91 100
126 32.5 16.4 49.1



Abundance Ion 91.00 (90.70 to 91.70): VW
Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 2.447 ug/l

RT: 13.21 min Scan# 1854

Delta R.T. -0.00 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

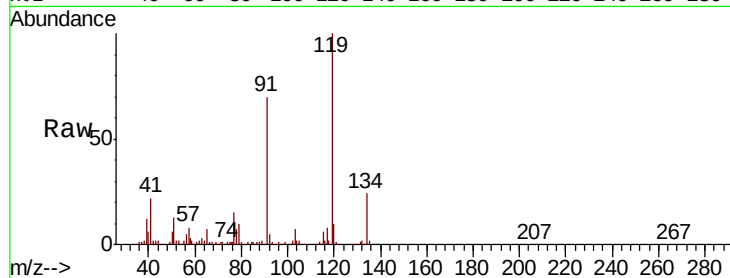
Tgt Ion:119 Resp: 33733

Ion Ratio Lower Upper

119 100

91 73.1 34.8 104.4

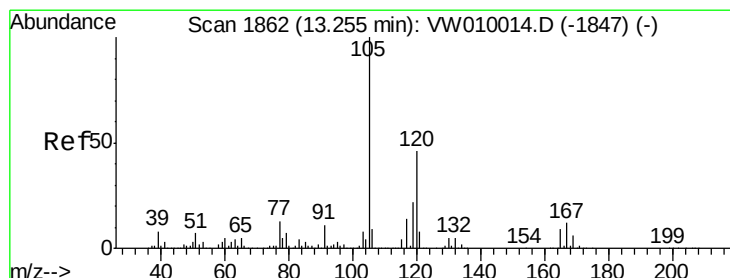
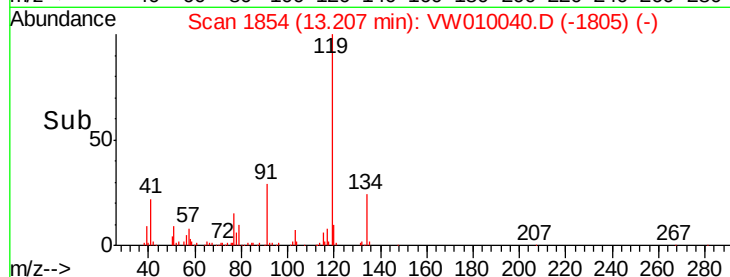
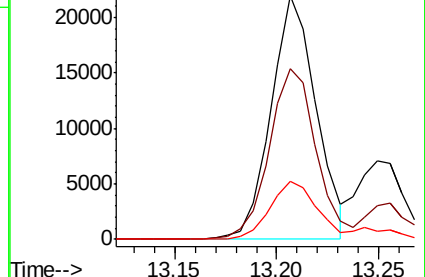
134 25.2 13.7 41.1



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 2.438 ug/l

RT: 13.25 min Scan# 1861

Delta R.T. -0.01 min

Lab File: VW010040.D

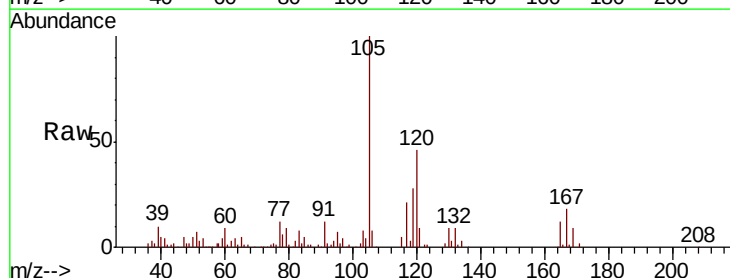
Acq: 18 Apr 2019 12:55

Tgt Ion:105 Resp: 41156

Ion Ratio Lower Upper

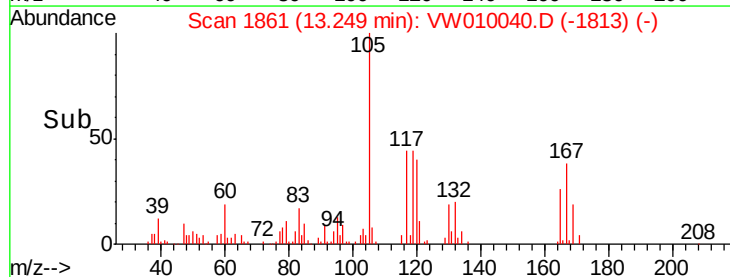
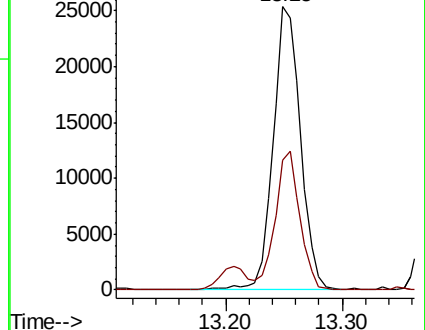
105 100

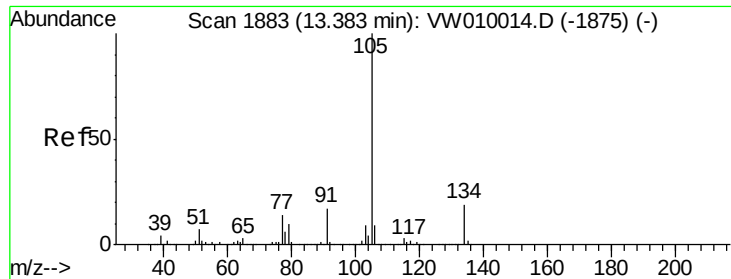
120 44.1 22.6 67.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

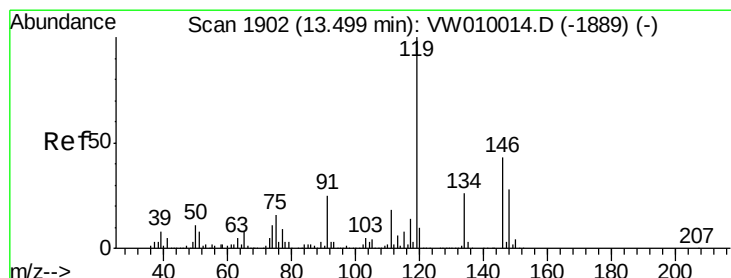
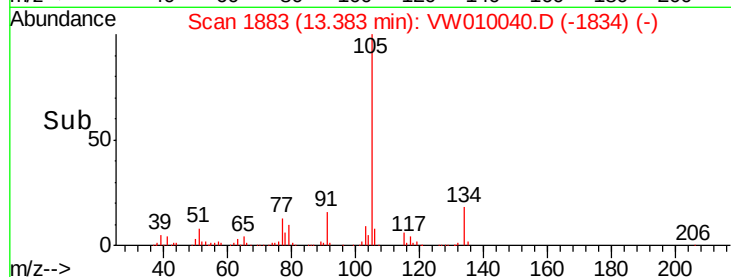
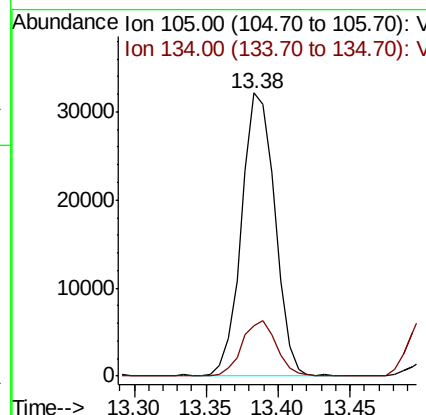
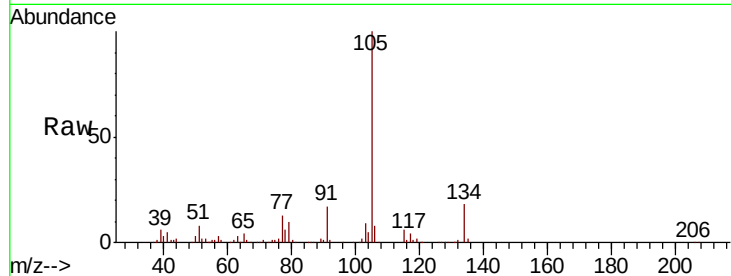




#85
 sec-Butylbenzene
 Concen: 2.514 ug/l
 RT: 13.38 min Scan# 1883
 Delta R.T. -0.00 min
 Lab File: VW010040.D
 Acq: 18 Apr 2019 12:55

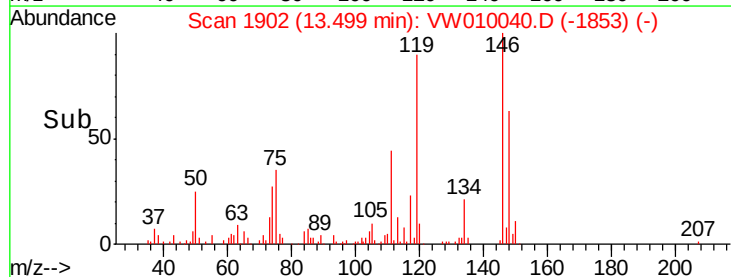
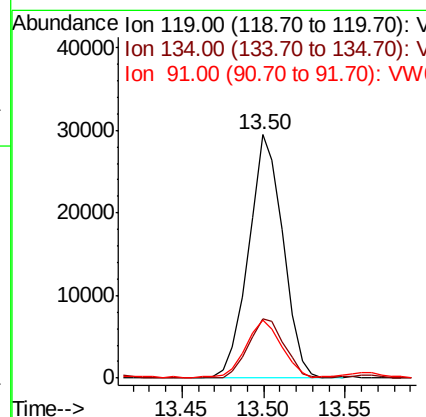
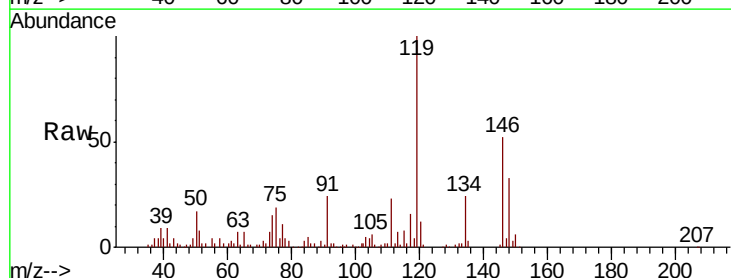
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT2-2019

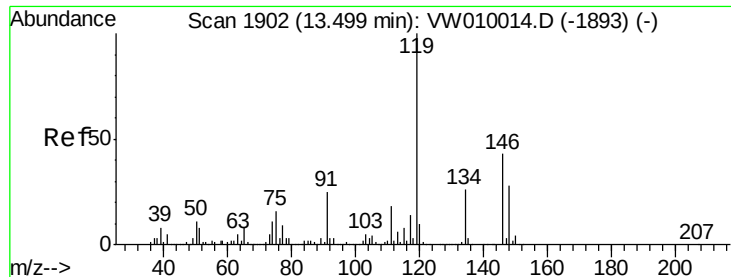
Tgt Ion:105 Resp: 51802
 Ion Ratio Lower Upper
 105 100
 134 20.1 9.8 29.5



#86
 p-Isopropyltoluene
 Concen: 2.392 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW010040.D
 Acq: 18 Apr 2019 12:55

Tgt Ion:119 Resp: 43442
 Ion Ratio Lower Upper
 119 100
 134 25.4 13.0 38.9
 91 25.3 12.3 36.9





#87

1,3-Dichlorobenzene

Concen: 2.759 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

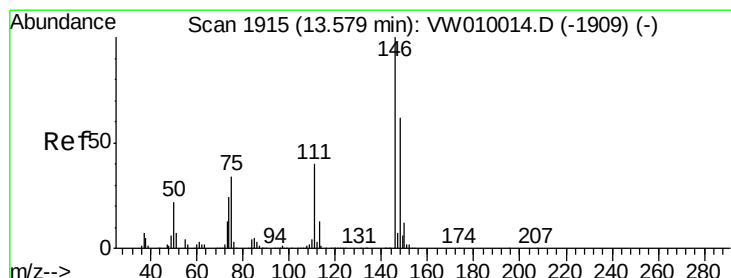
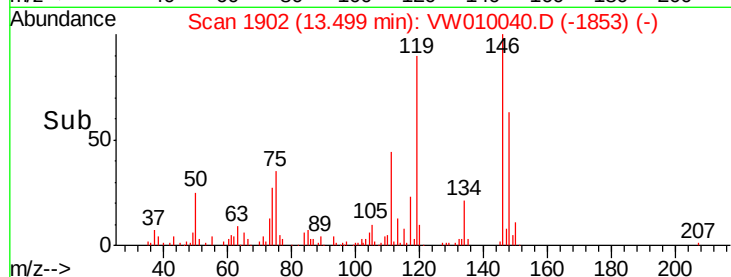
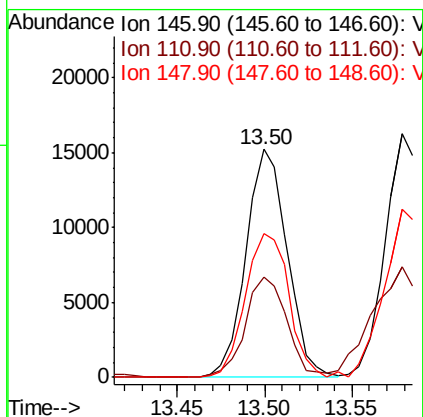
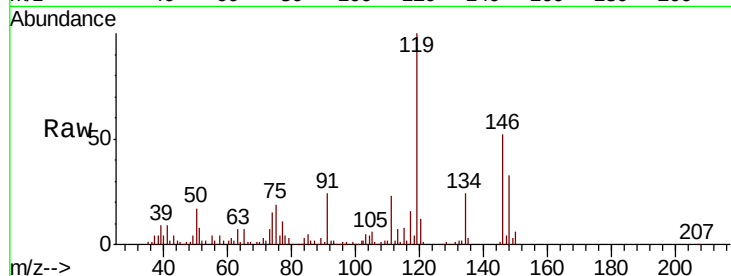
Tgt Ion:146 Resp: 25186

Ion Ratio Lower Upper

146 100

111 44.2 20.3 61.0

148 66.0 32.0 96.2



#88

1,4-Dichlorobenzene

Concen: 2.830 ug/l

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

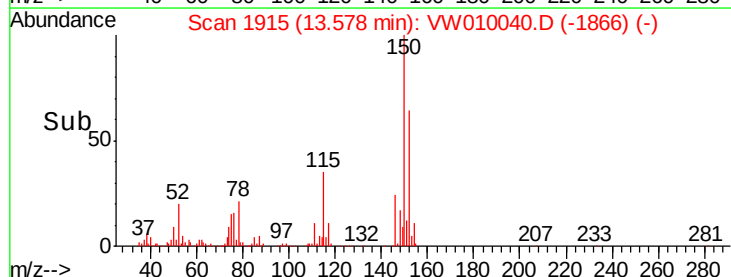
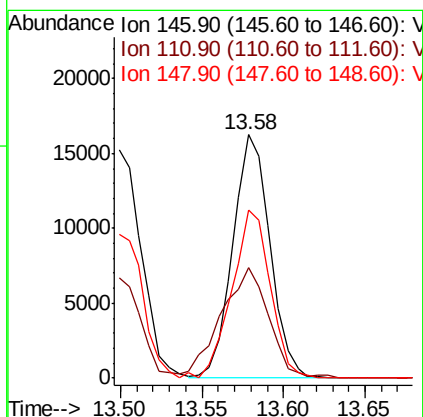
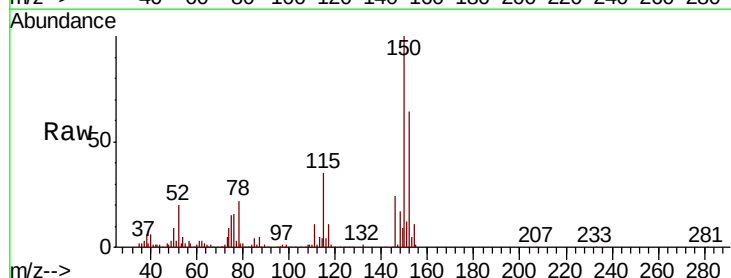
Tgt Ion:146 Resp: 25792

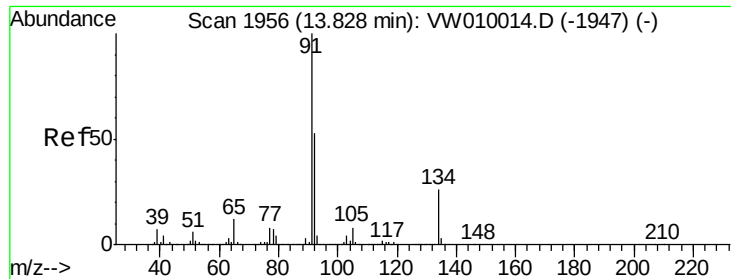
Ion Ratio Lower Upper

146 100

111 58.3 20.1 60.3

148 71.5 31.8 95.3





#89

n-Butylbenzene

Concen: 2.560 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. -0.00 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

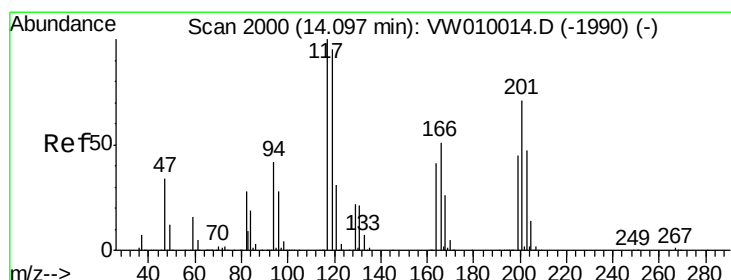
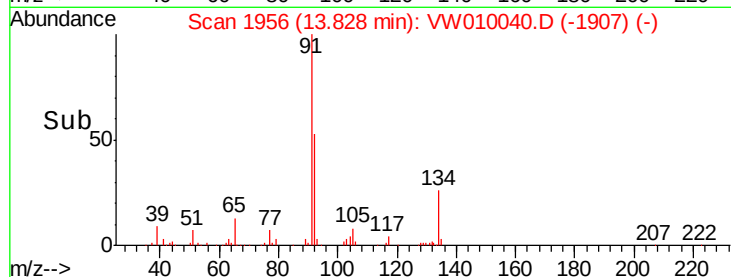
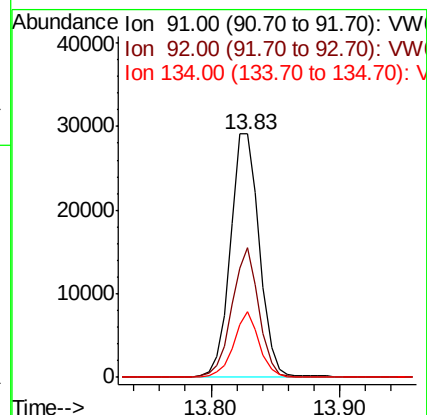
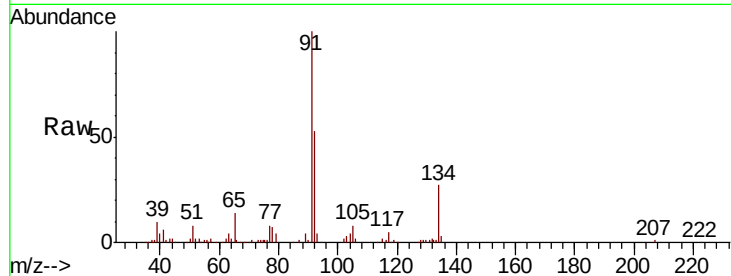
Tgt Ion: 91 Resp: 46061

Ion Ratio Lower Upper

91 100

92 49.1 26.5 79.4

134 23.7 12.4 37.0



#90

Hexachloroethane

Concen: 2.816 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. -0.00 min

Lab File: VW010040.D

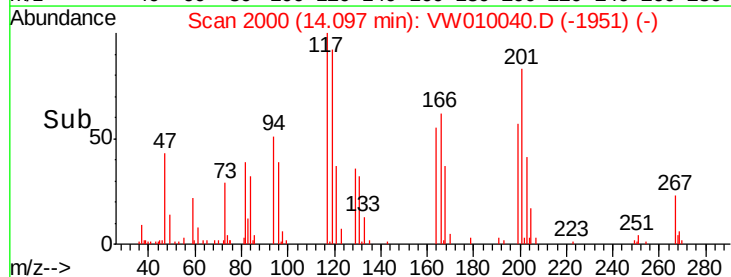
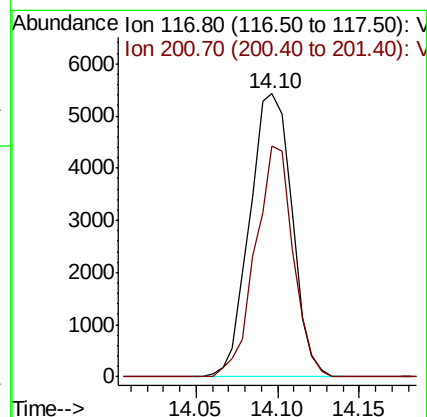
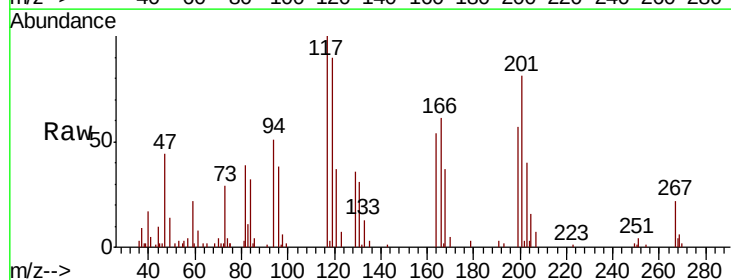
Acq: 18 Apr 2019 12:55

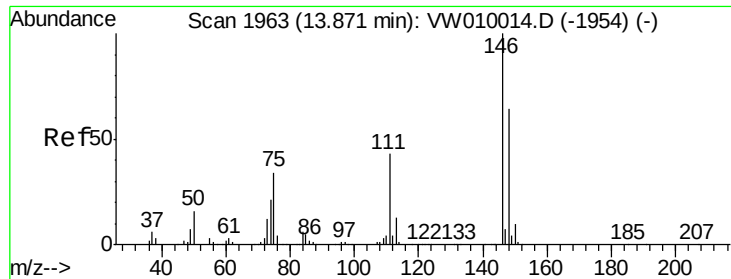
Tgt Ion: 117 Resp: 9796

Ion Ratio Lower Upper

117 100

201 73.1 36.1 108.3

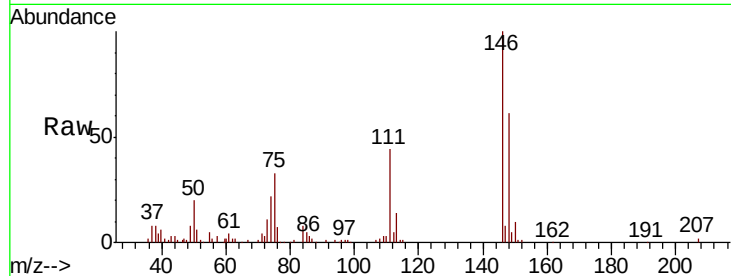




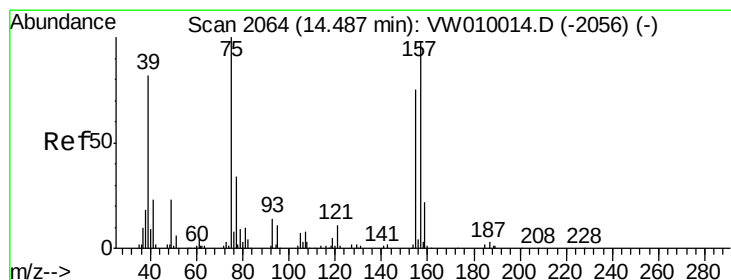
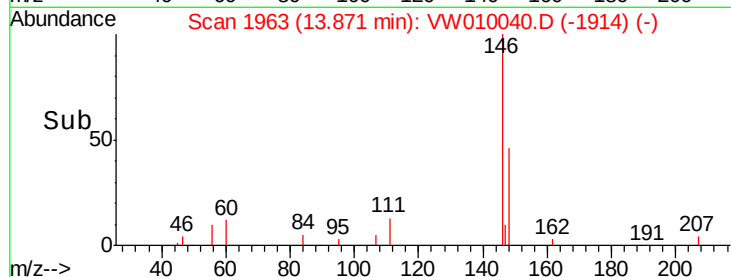
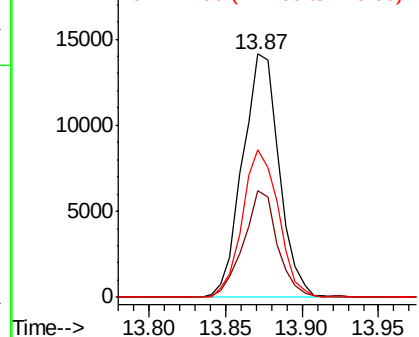
#91
 1,2-Dichlorobenzene
 Concen: 2.864 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW010040.D
 Acq: 18 Apr 2019 12:55

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT2-2019

Tgt Ion: 146 Resp: 23446
 Ion Ratio Lower Upper
 146 100
 111 40.8 20.9 62.8
 148 60.2 31.9 95.7

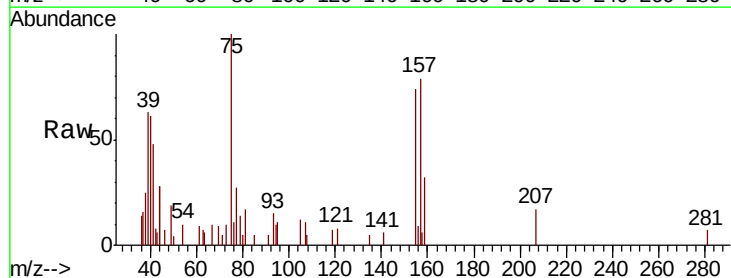


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

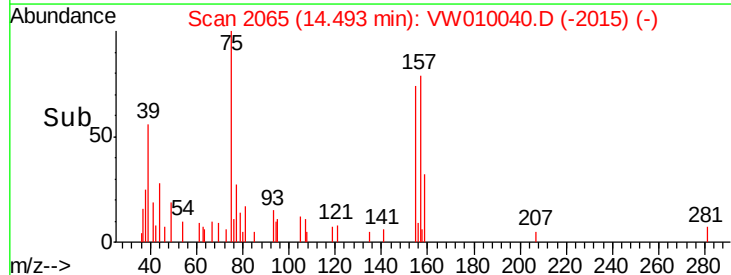
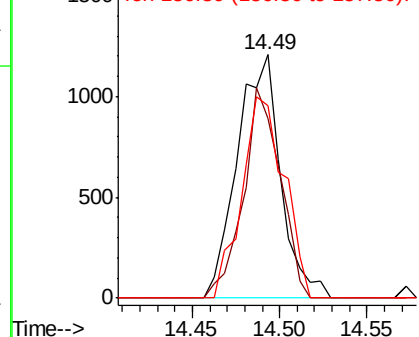


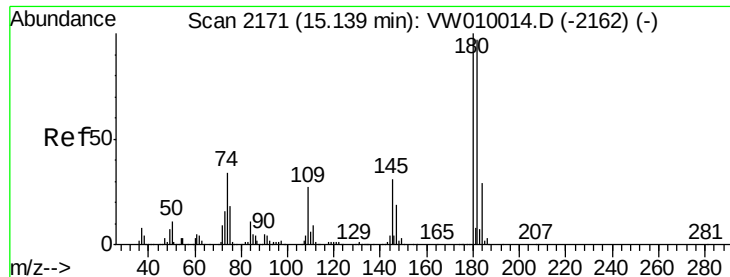
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.997 ug/l
 RT: 14.49 min Scan# 2065
 Delta R.T. 0.01 min
 Lab File: VW010040.D
 Acq: 18 Apr 2019 12:55

Tgt Ion: 75 Resp: 2081
 Ion Ratio Lower Upper
 75 100
 155 73.2 37.1 111.5
 157 80.2 47.3 141.9



Abundance Ion 74.90 (74.60 to 75.60): VW
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V

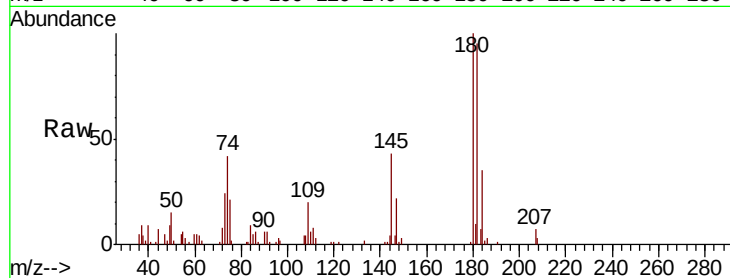




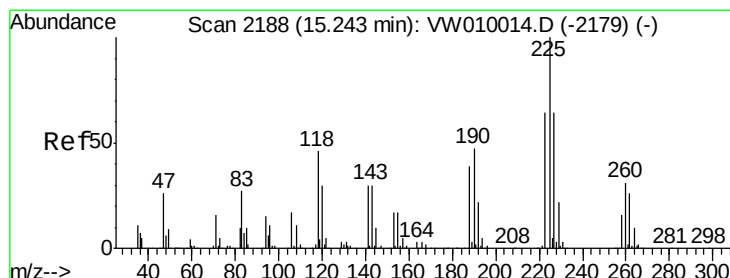
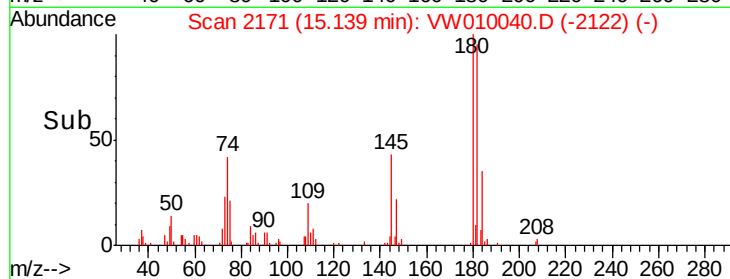
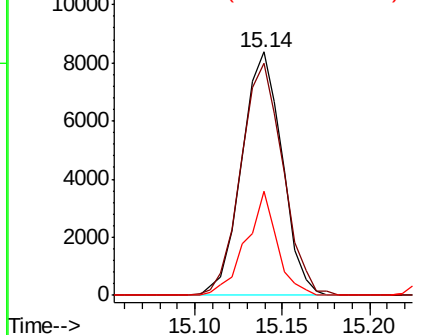
#93
 1,2,4-Trichlorobenzene
 Concen: 2.496 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. -0.00 min
 Lab File: VW010040.D
 Acq: 18 Apr 2019 12:55

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT2-2019

Tgt Ion:180 Resp: 13478
 Ion Ratio Lower Upper
 180 100
 182 99.6 47.1 141.4
 145 33.2 15.2 45.6

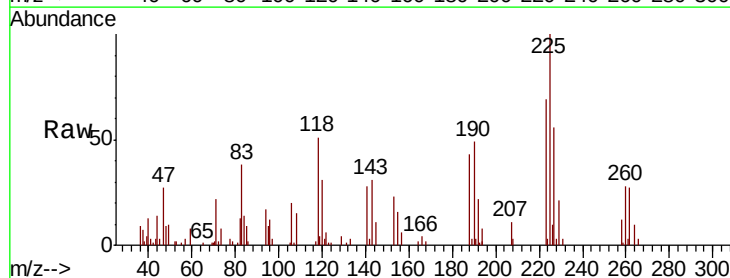


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

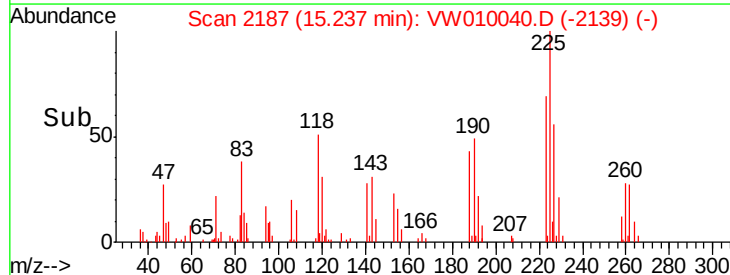
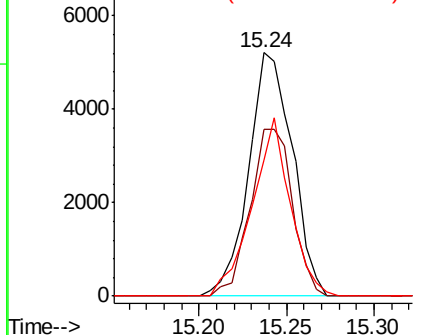


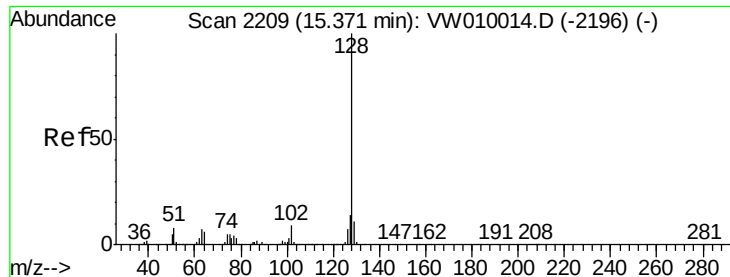
#94
 Hexachlorobutadiene
 Concen: 2.756 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. -0.01 min
 Lab File: VW010040.D
 Acq: 18 Apr 2019 12:55

Tgt Ion:225 Resp: 9039
 Ion Ratio Lower Upper
 225 100
 223 66.4 31.9 95.5
 227 64.0 31.8 95.3



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 4.490 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

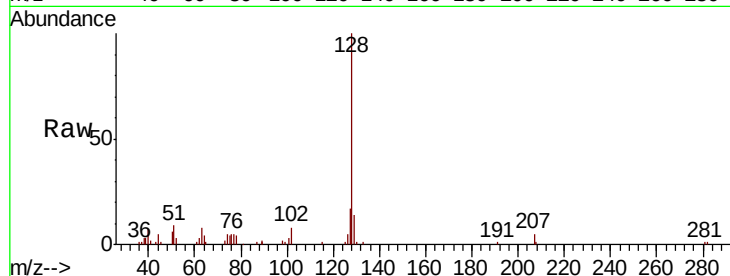
Tgt Ion:128 Resp: 20946

Ion Ratio Lower Upper

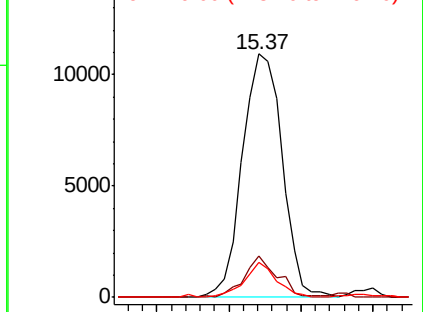
128 100

127 14.0 10.6 15.8

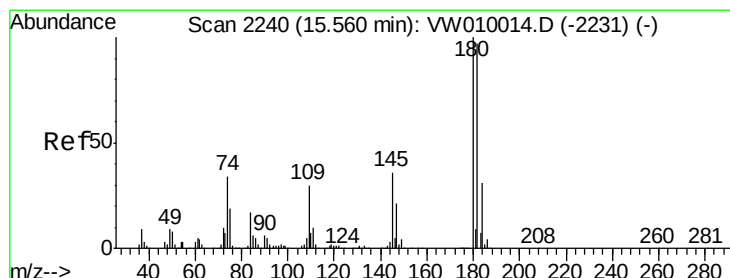
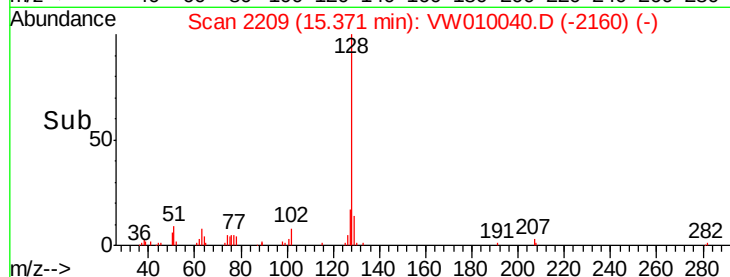
129 11.5 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 2.581 ug/l

RT: 15.56 min Scan# 2240

Delta R.T. -0.00 min

Lab File: VW010040.D

Acq: 18 Apr 2019 12:55

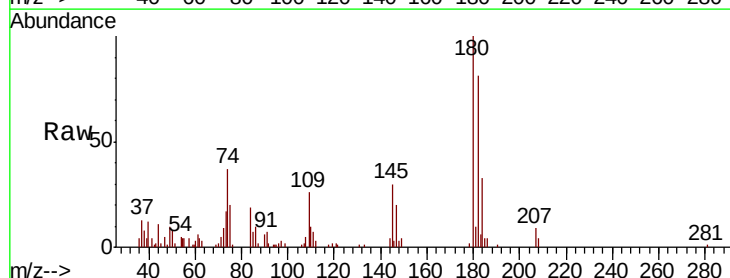
Tgt Ion:180 Resp: 12095

Ion Ratio Lower Upper

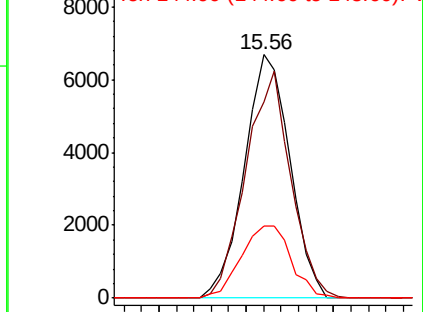
180 100

182 92.4 47.8 143.3

145 32.6 16.4 49.2



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V



Time-->

