

Data Path : W:\HPCHEM1\MSVOA_W\DATA\VW012418\
 Data File : VW000944.D
 Acq On : 24 Jan 2018 13:10
 Operator : JC/SY
 Sample : J1161-03 MDL 2.0 PPB
 Misc : 5.0G/5.0ML/MSVOA_W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT1-2018

Quant Time: Jan 25 04:25:11 2018
 Quant Method : W:\HPCHEM1\MSVOA_W\METHOD\82W012318S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 23 13:31:00 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	245378	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	359900	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	322724	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	169991	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	119171	50.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.34%	
35) Dibromofluoromethane	7.89	113	96179	43.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.24%	
50) Toluene-d8	10.34	98	424722	48.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.72%	
62) 4-Bromofluorobenzene	12.63	95	145779	46.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.10%	

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	2.00	85	5469	2.31	ug/l	99
3) Chloromethane	2.22	50	4801	2.30	ug/l	95
4) Vinyl Chloride	2.36	62	4041	2.08	ug/l #	84
5) Bromomethane	2.76	94	3648	2.74	ug/l	90
6) Chloroethane	2.91	64	2332	2.16	ug/l	100
7) Trichlorofluoromethane	3.26	101	7344	2.05	ug/l	84
8) Diethyl Ether	3.67	74	1973	2.20	ug/l	54
9) 1,1,2-Trichlorotrifluoroet	4.04	101	5525	2.39	ug/l	95
10) Methyl Iodide	4.27	142	3770	6.24	ug/l	95
11) Tert butyl alcohol	5.12	59	23523	92.23	ug/l #	79
12) 1,1-Dichloroethene	4.03	96	4620	2.32	ug/l #	79
13) Acrolein	3.90	56	2156	8.66	ug/l	99
14) Allyl chloride	4.66	41	6214	2.01	ug/l	95
15) Acrylonitrile	5.38	53	6815	9.73	ug/l	98
16) Acetone	4.13	43	10846	27.74	ug/l	94
17) Carbon Disulfide	4.37	76	13359	2.03	ug/l #	95
18) Methyl Acetate	4.68	43	3690	2.13	ug/l	100
19) Methyl tert-butyl Ether	5.43	73	9862	1.93	ug/l	93
20) Methylene Chloride	4.91	84	10420	2.04	ug/l	97
21) trans-1,2-Dichloroethene	5.43	96	4624	2.00	ug/l	87
22) Diisopropyl ether	6.32	45	9559	1.72	ug/l #	95
23) Vinyl Acetate	6.26	43	10728	3.11	ug/l	96
24) 1,1-Dichloroethane	6.23	63	7647	2.06	ug/l	97
25) 2-Butanone	7.18	43	10277	9.88	ug/l	93
26) 2,2-Dichloropropane	7.17	77	9880	2.63	ug/l	86
27) cis-1,2-Dichloroethene	7.17	96	4376	1.83	ug/l	72
28) Bromochloromethane	7.51	49	2823	1.81	ug/l	93
29) Tetrahydrofuran	7.53	42	4963	8.67	ug/l	98
31) Cyclohexane	7.95	56	11842	3.09	ug/l #	68
32) 1,1,1-Trichloroethane	7.87	97	7791	2.01	ug/l	98
36) 1,1-Dichloropropene	8.08	75	6947	2.02	ug/l	97
37) Ethyl Acetate	7.26	43	3892	2.01	ug/l #	89
38) Carbon Tetrachloride	8.06	117	6588	1.74	ug/l	95
39) Methylcyclohexane	9.34	83	7635	1.85	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Benzene	8.32	78	18249	1.95	ug/l	100
41) Methacrylonitrile	7.49	41	1773	1.63	ug/l #	87
42) 1,2-Dichloroethane	8.41	62	5631	1.96	ug/l	99
43) Isopropyl Acetate	8.43	43	5870	1.79	ug/l	96
44) Trichloroethene	9.09	130	5827	2.10	ug/l	81
45) 1,2-Dichloropropane	9.37	63	4363	2.00	ug/l	93
46) Dibromomethane	9.46	93	2366	1.70	ug/l	94
47) Bromodichloromethane	9.65	83	5298	1.72	ug/l	90
48) Methyl methacrylate	9.45	41	2540	1.61	ug/l #	86
49) 1,4-Dioxane	9.45	88	1058	34.78	ug/l #	86
51) 4-Methyl-2-Pentanone	10.22	43	15418	8.15	ug/l	97
52) Toluene	10.40	92	11541	1.96	ug/l	95
53) t-1,3-Dichloropropene	10.62	75	5299	1.70	ug/l	89
54) cis-1,3-Dichloropropene	10.08	75	5699	1.66	ug/l	99
55) 1,1,2-Trichloroethane	10.80	97	3891	2.00	ug/l #	88
56) Ethyl methacrylate	10.66	69	3695	4.57	ug/l #	89
57) 1,3-Dichloropropane	10.94	76	5824	1.83	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.93	63	5271	29.04	ug/l	99
59) 2-Hexanone	10.98	43	10940	20.87	ug/l	92
60) Dibromochloromethane	11.13	129	4050	1.73	ug/l	94
61) 1,2-Dibromoethane	11.24	107	3570	1.76	ug/l	97
64) Tetrachloroethene	10.87	164	5968	2.23	ug/l	97
65) Chlorobenzene	11.67	112	13078	1.98	ug/l	90
66) 1,1,1,2-Tetrachloroethane	11.74	131	4491	1.89	ug/l #	64
67) Ethyl Benzene	11.74	91	20403	1.82	ug/l	97
68) m/p-Xylenes	11.85	106	14839	3.41	ug/l	98
69) o-Xylene	12.18	106	6698	1.68	ug/l	99
70) Styrene	12.19	104	10335	1.59	ug/l	96
71) Bromoform	12.37	173	2714	1.68	ug/l #	94
73) Isopropylbenzene	12.48	105	18884	1.72	ug/l	99
74) N-amyl acetate	12.29	43	4165	1.56	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.73	83	4181	1.78	ug/l	97
76) 1,2,3-Trichloropropane	12.78	75	6275	3.19	ug/l #	100
77) Bromobenzene	12.76	156	5510	1.97	ug/l	97
78) n-propylbenzene	12.82	91	24917	1.88	ug/l	99
79) 2-Chlorotoluene	12.91	91	14238	1.90	ug/l	99
80) 1,3,5-Trimethylbenzene	12.96	105	16157	1.73	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.63	75	73815	90.14	ug/l #	11
82) 4-Chlorotoluene	13.01	91	15145	1.91	ug/l	98
83) tert-Butylbenzene	13.23	119	14186	1.73	ug/l	97
84) 1,2,4-Trimethylbenzene	13.27	105	15305	1.62	ug/l	96
85) sec-Butylbenzene	13.40	105	20265	1.72	ug/l	98
86) p-Isopropyltoluene	13.52	119	16782	1.60	ug/l	94
87) 1,3-Dichlorobenzene	13.51	146	10980	1.98	ug/l	98
88) 1,4-Dichlorobenzene	13.60	146	11277	2.03	ug/l	79
89) n-Butylbenzene	13.84	91	18603	1.89	ug/l	94
90) Hexachloroethane	14.11	117	3901	2.00	ug/l	100
91) 1,2-Dichlorobenzene	13.89	146	9857	1.97	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.51	75	1018	1.96	ug/l	92
93) 1,2,4-Trichlorobenzene	15.16	180	7687	2.07	ug/l	97

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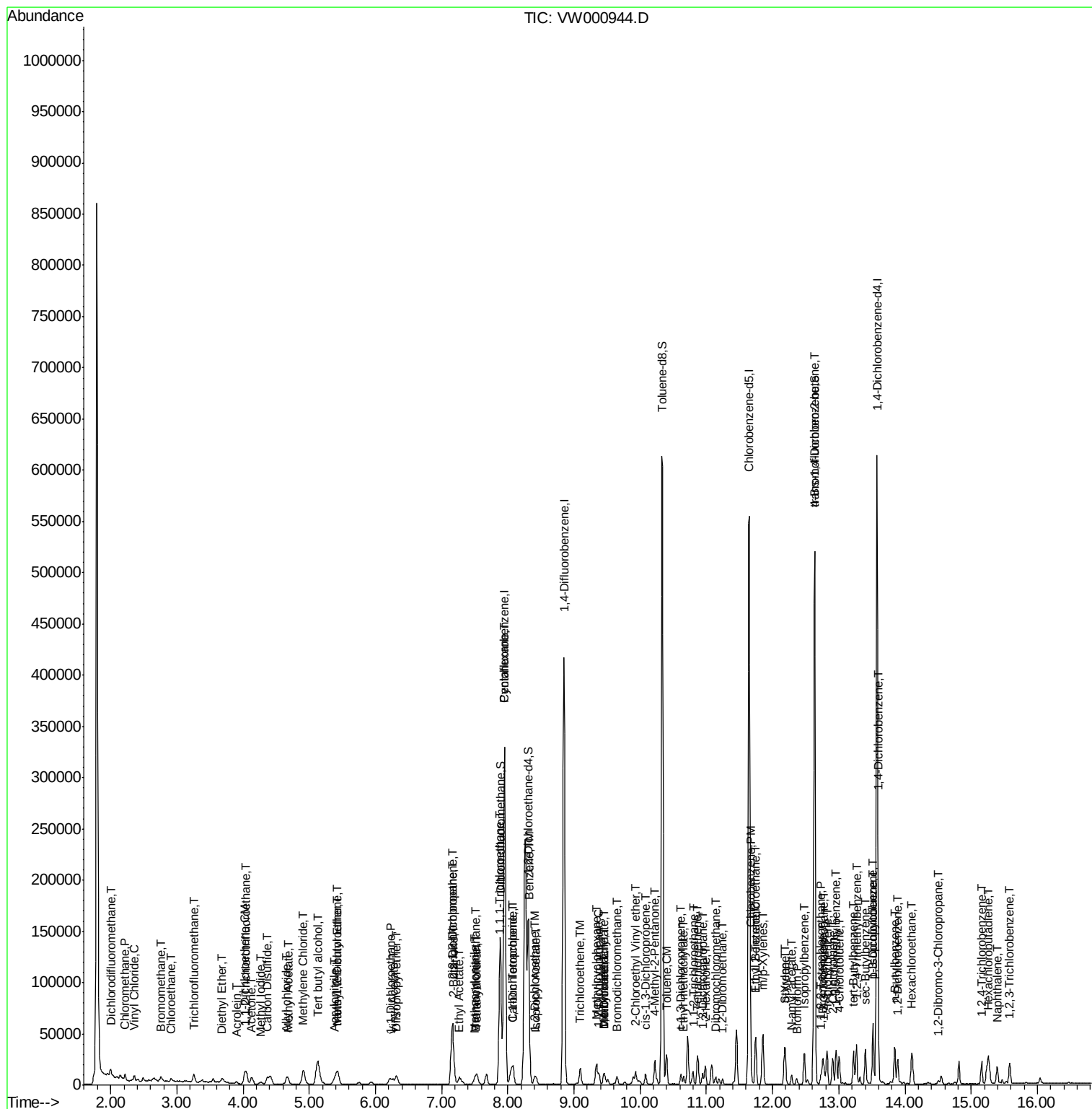
Quant Time: Jan 25 04:25:11 2018
Quant Method : W:\HPCHEM1\MSVOA_W\METHOD\82W012318S.M
Quant Title : SW846 8260
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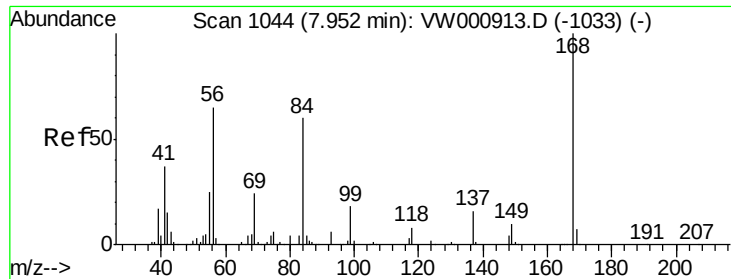
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	15.26	225	4700	1.99	ug/l	96
95) Naphthalene	15.39	128	13600	1.73	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.58	180	6643	1.94	ug/l	96

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

Instrument :
MSVOA_W
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MDL-SOIL-03-QT1-2018

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

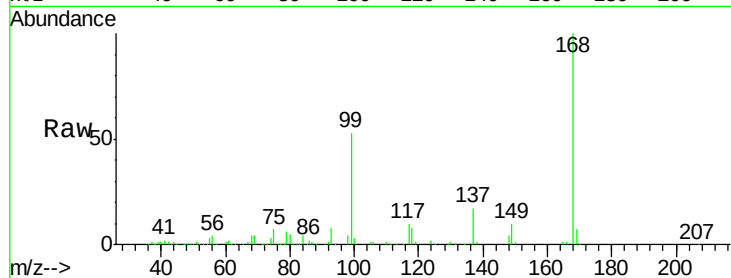
MDL-SOIL-03-QT1-2018

Tgt Ion:168 Resp: 245378

Ion Ratio Lower Upper

168 100

99 53.2 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

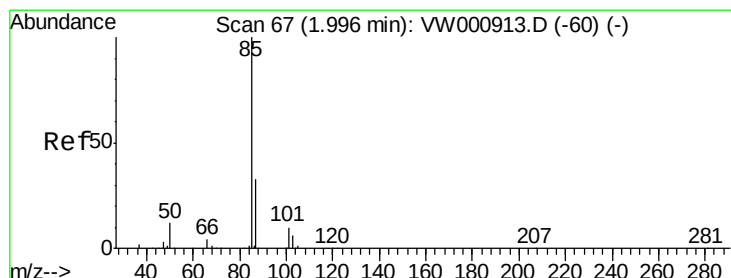
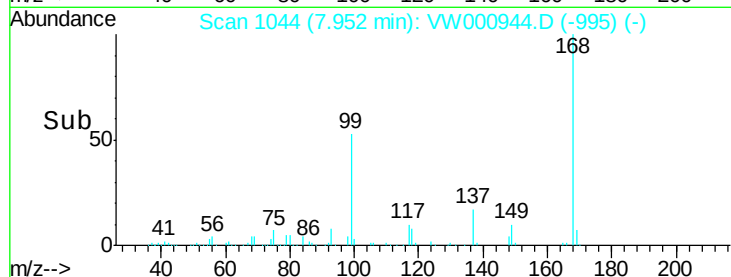
60000

40000

20000

0

Time--> 7.80 7.90 8.00



#2

Dichlorodifluoromethane

Concen: 2.31 ug/l

RT: 2.00 min Scan# 67

Delta R.T. 0.00 min

Lab File: VW000944.D

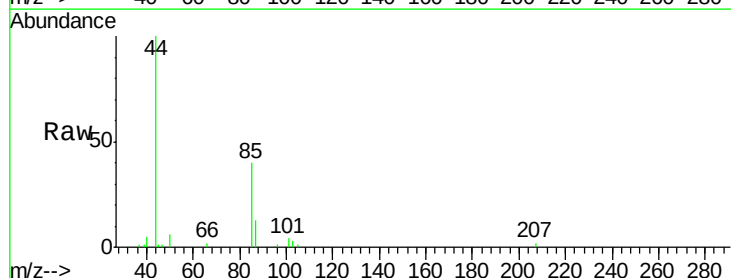
Acq: 24 Jan 2018 13:10

Tgt Ion: 85 Resp: 5469

Ion Ratio Lower Upper

85 100

87 32.9 16.6 49.8



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

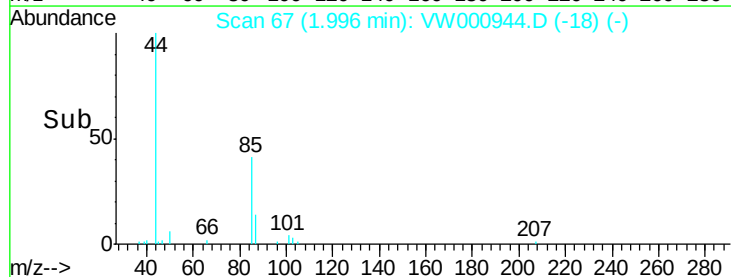
3000

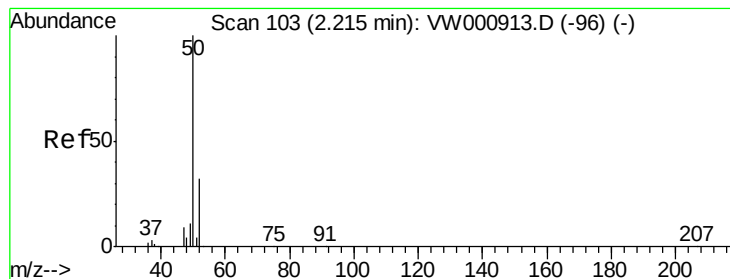
2000

1000

0

Time--> 1.95 2.00 2.05 2.10





#3

Chloromethane

Concen: 2.30 ug/l

RT: 2.22 min Scan# 103

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

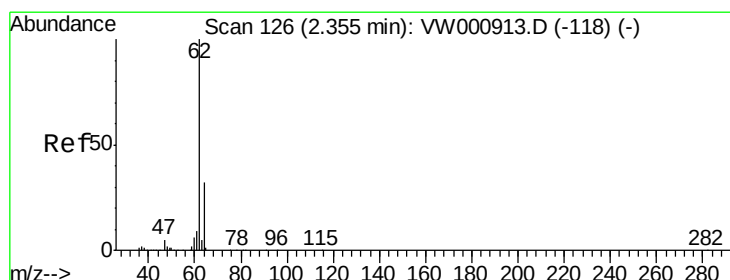
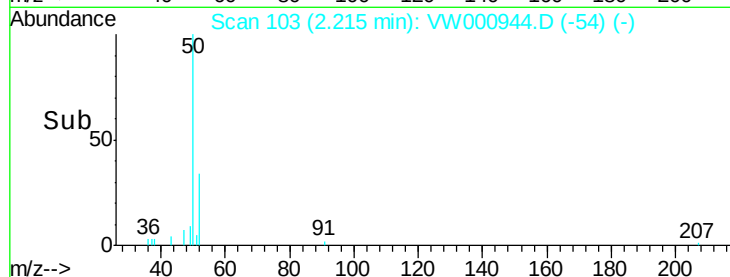
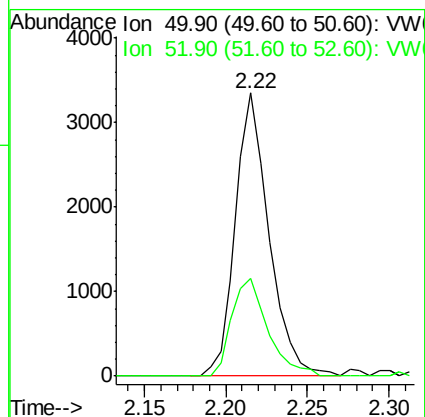
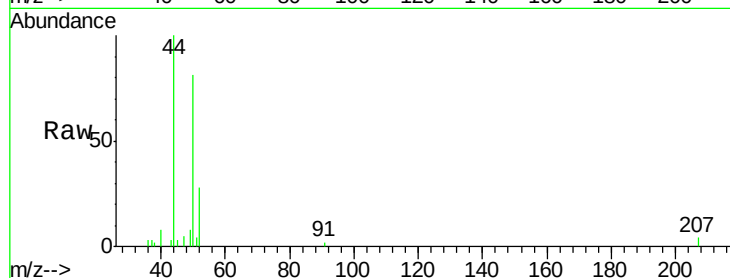
MDL-SOIL-03-QT1-2018

Tgt Ion: 50 Resp: 4801

Ion Ratio Lower Upper

50 100

52 34.4 25.5 38.3



#4

Vinyl Chloride

Concen: 2.08 ug/l

RT: 2.36 min Scan# 126

Delta R.T. 0.00 min

Lab File: VW000944.D

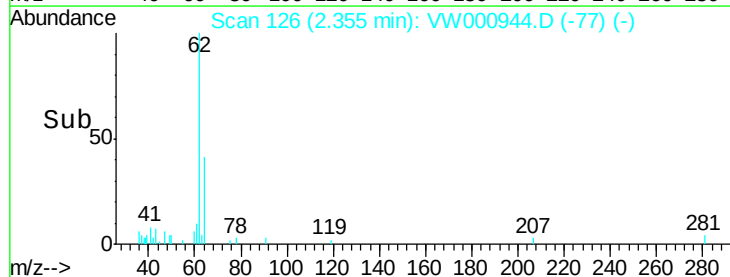
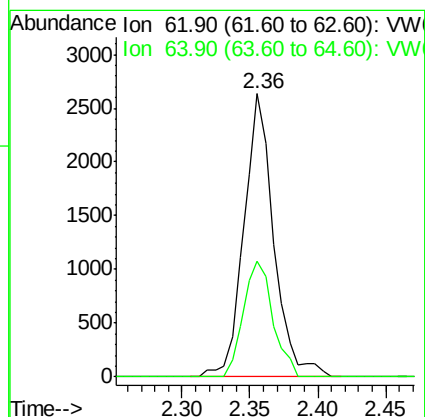
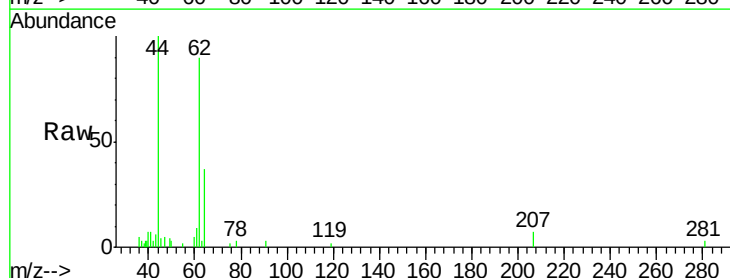
Acq: 24 Jan 2018 13:10

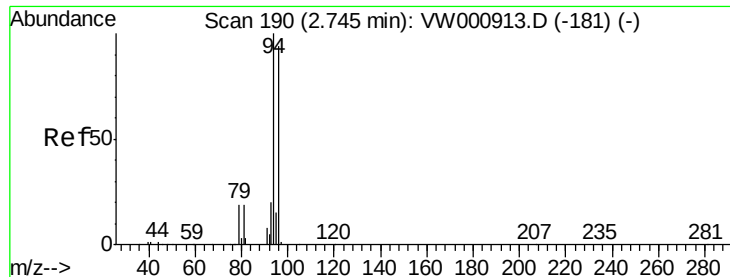
Tgt Ion: 62 Resp: 4041

Ion Ratio Lower Upper

62 100

64 40.7 25.6 38.4#





#5

Bromomethane

Concen: 2.74 ug/l

RT: 2.76 min Scan# 192

Delta R.T. 0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

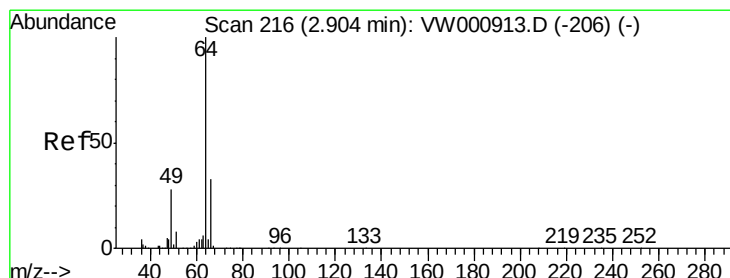
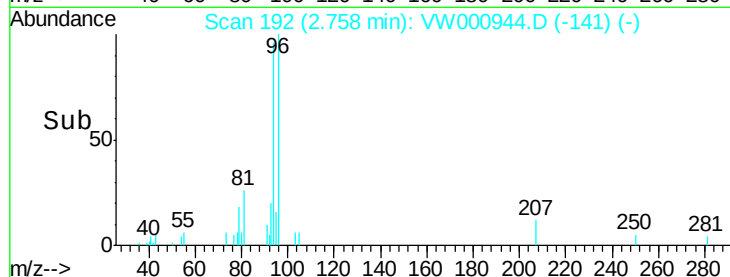
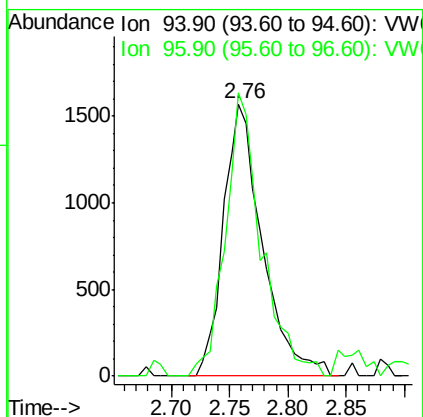
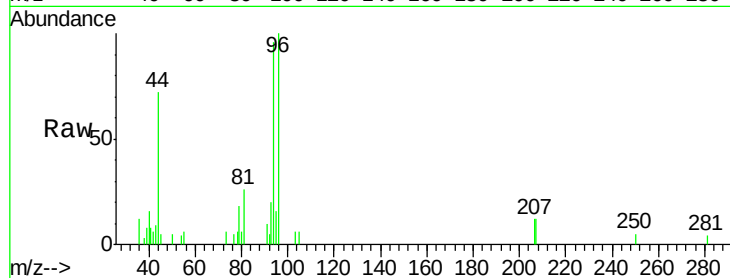
MDL-SOIL-03-QT1-2018

Tgt Ion: 94 Resp: 3648

Ion Ratio Lower Upper

94 100

96 104.1 75.5 113.3



#6

Chloroethane

Concen: 2.16 ug/l

RT: 2.91 min Scan# 217

Delta R.T. 0.01 min

Lab File: VW000944.D

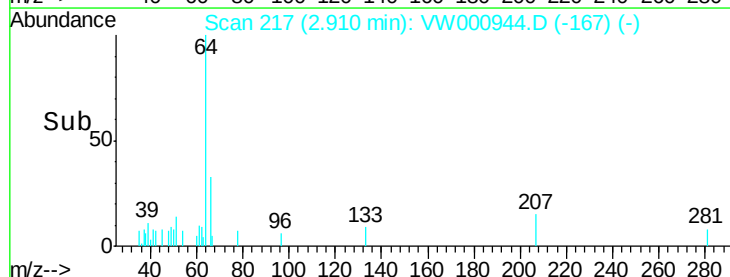
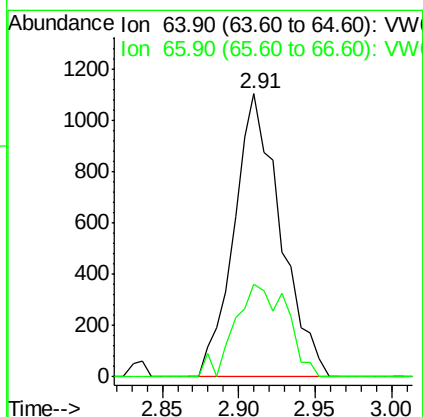
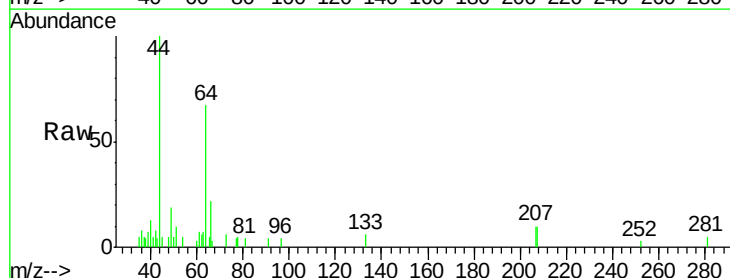
Acq: 24 Jan 2018 13:10

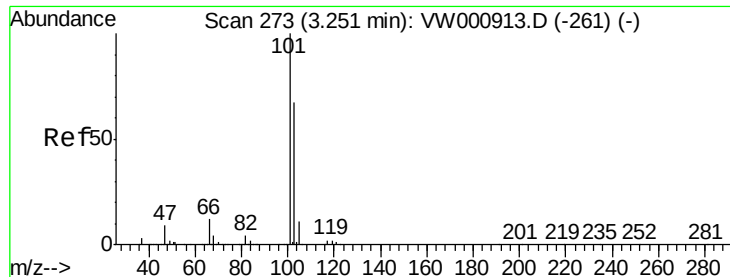
Tgt Ion: 64 Resp: 2332

Ion Ratio Lower Upper

64 100

66 32.5 26.1 39.1





#7

Trichlorofluoromethane

Concen: 2.05 ug/l

RT: 3.26 min Scan# 274

Delta R.T. 0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

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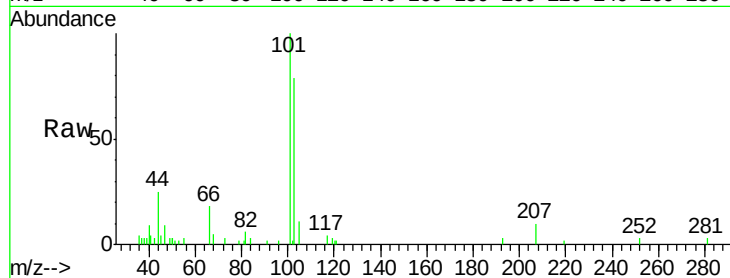
MDL-SOIL-03-QT1-2018

Tgt Ion:101 Resp: 7344

Ion Ratio Lower Upper

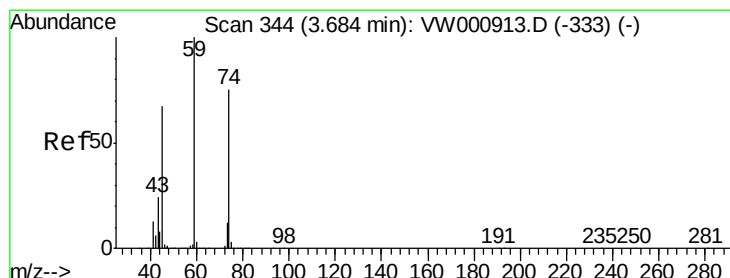
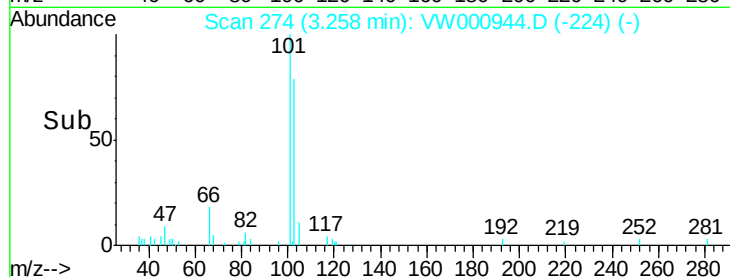
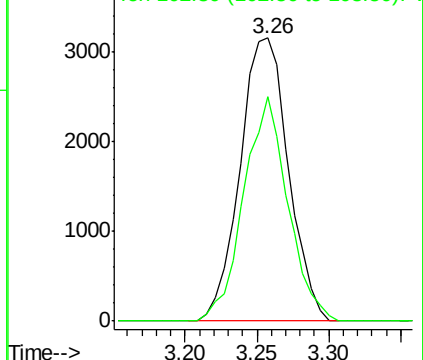
101 100

103 79.1 53.4 80.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 2.20 ug/l

RT: 3.67 min Scan# 342

Delta R.T. -0.01 min

Lab File: VW000944.D

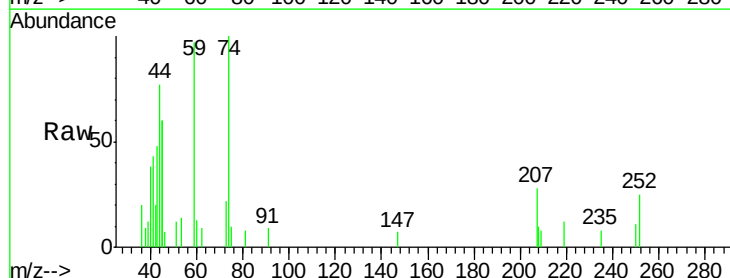
Acq: 24 Jan 2018 13:10

Tgt Ion: 74 Resp: 1973

Ion Ratio Lower Upper

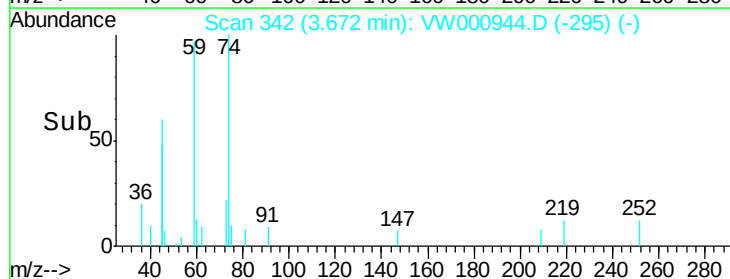
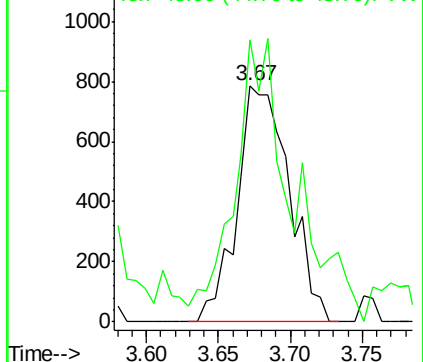
74 100

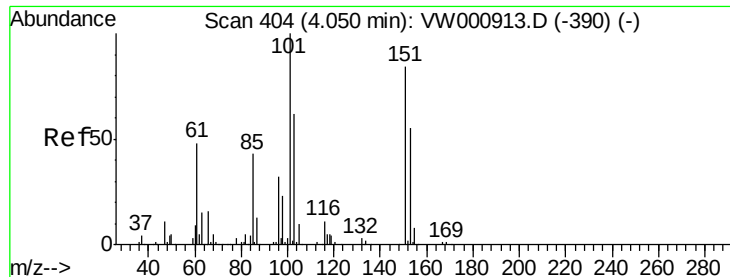
45 132.7 44.7 134.1



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.39 ug/l

RT: 4.04 min Scan# 403

Delta R.T. -0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

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MDL-SOIL-03-QT1-2018

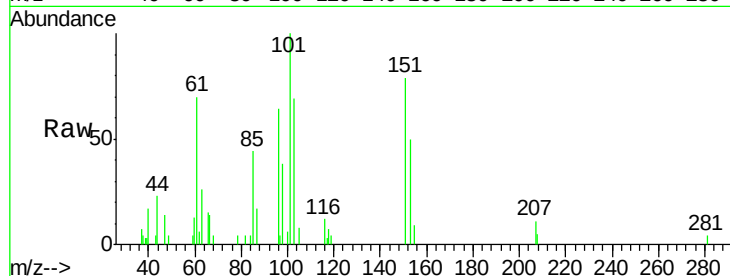
Tgt Ion:101 Resp: 5525

Ion Ratio Lower Upper

101 100

85 46.1 35.3 52.9

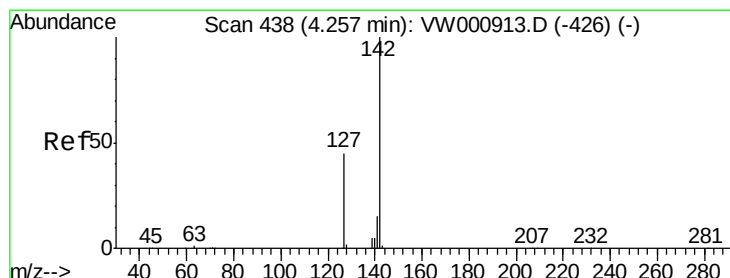
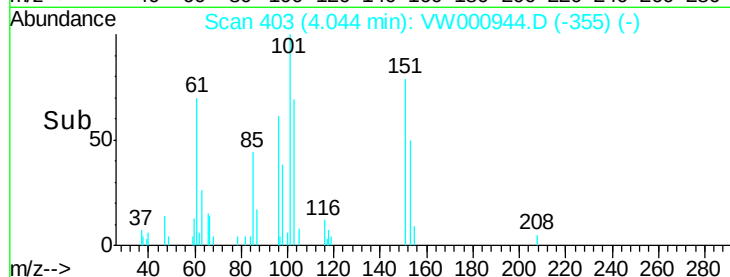
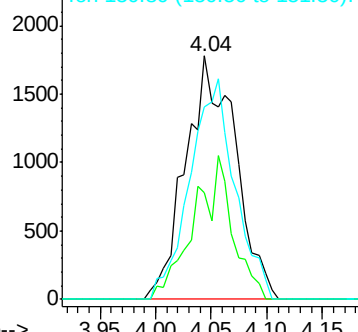
151 82.0 69.9 104.9



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: 6.24 ug/l

RT: 4.27 min Scan# 440

Delta R.T. 0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

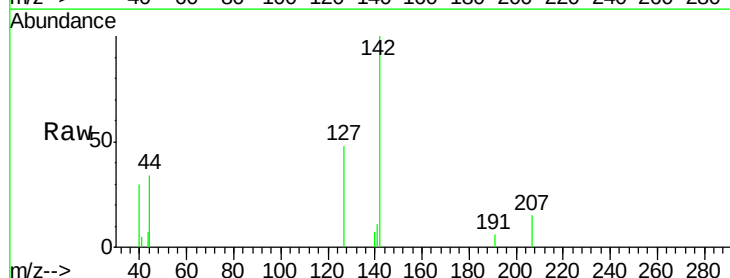
Tgt Ion:142 Resp: 3770

Ion Ratio Lower Upper

142 100

127 48.1 35.5 53.3

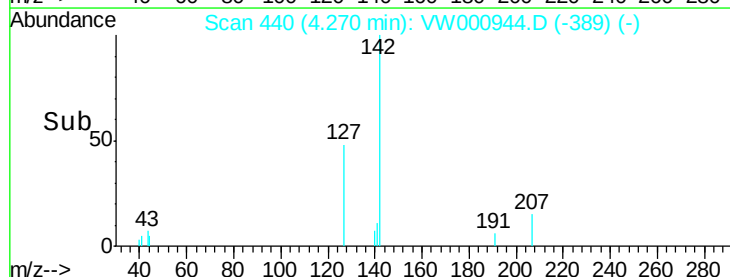
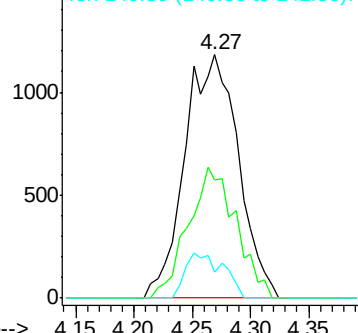
141 13.2 11.7 17.5

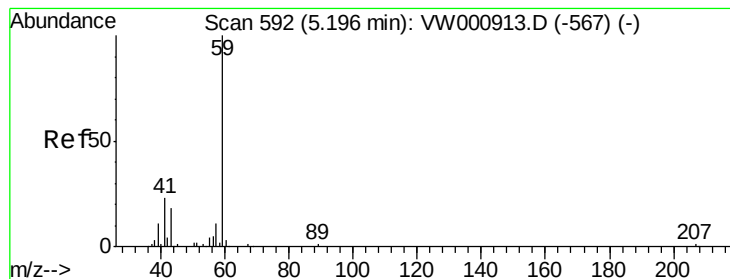


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 92.23 ug/l

RT: 5.12 min Scan# 580

Delta R.T. -0.07 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

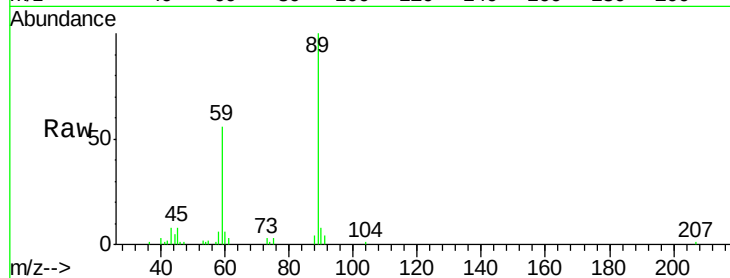
MDL-SOIL-03-QT1-2018

Tgt Ion: 59 Resp: 23523

Ion Ratio Lower Upper

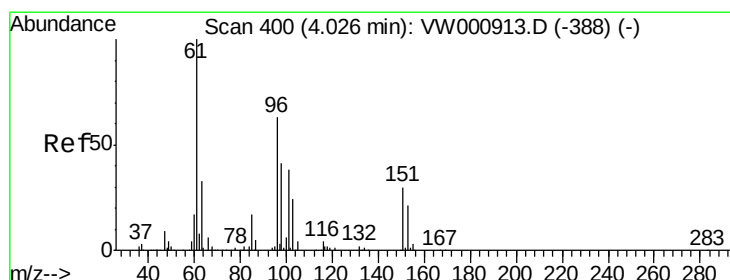
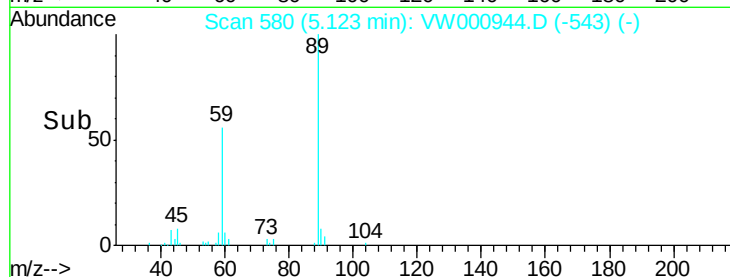
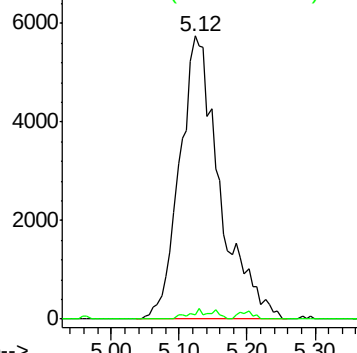
59 100

57 1.3 7.0 10.6#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW



#12

1,1-Dichloroethene

Concen: 2.32 ug/l

RT: 4.03 min Scan# 401

Delta R.T. 0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

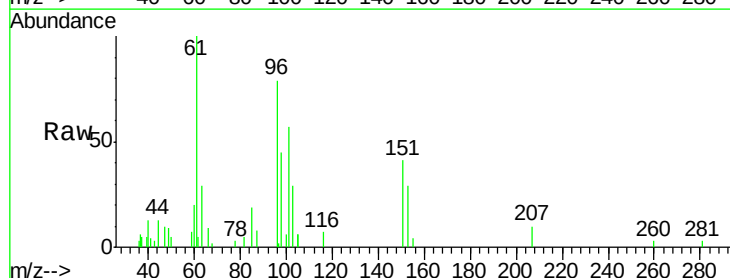
Tgt Ion: 96 Resp: 4620

Ion Ratio Lower Upper

96 100

61 125.8 126.7 190.1#

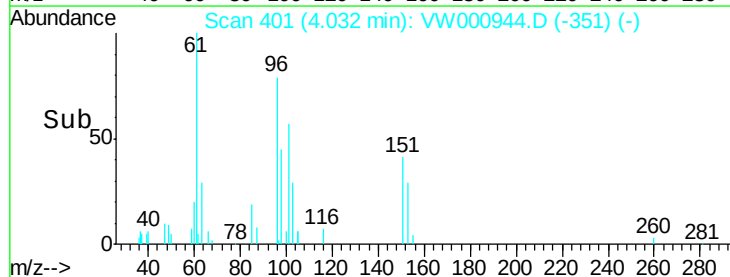
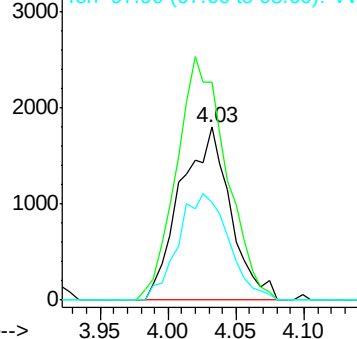
98 56.5 52.1 78.1

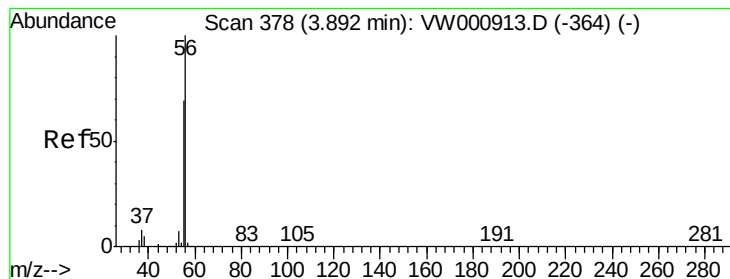


Abundance Ion 95.90 (95.60 to 96.60): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 97.90 (97.60 to 98.60): VW





#13

Acrolein

Concen: 8.66 ug/l

RT: 3.90 min Scan# 379

Delta R.T. 0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

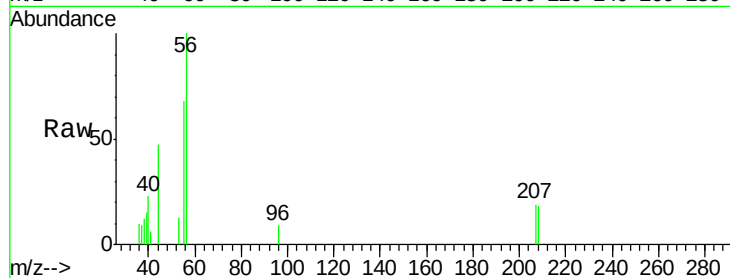
MDL-SOIL-03-QT1-2018

Tgt Ion: 56 Resp: 2156

Ion Ratio Lower Upper

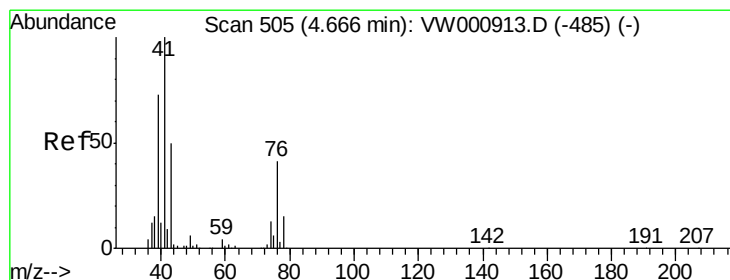
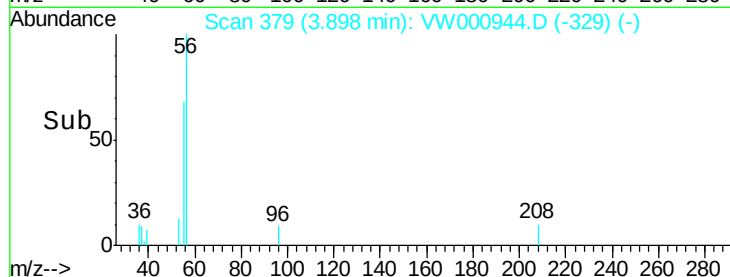
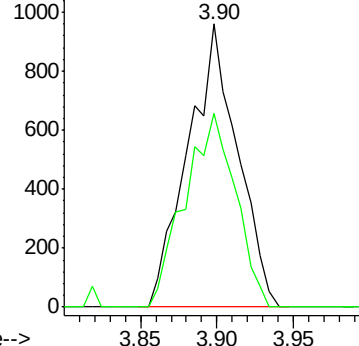
56 100

55 70.2 55.4 83.0



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#14

Allyl chloride

Concen: 2.01 ug/l

RT: 4.66 min Scan# 504

Delta R.T. -0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

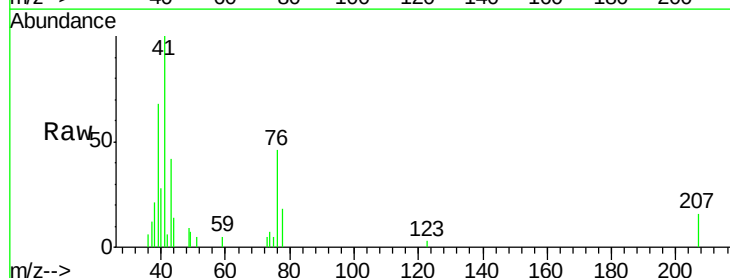
Tgt Ion: 41 Resp: 6214

Ion Ratio Lower Upper

41 100

39 74.3 55.3 82.9

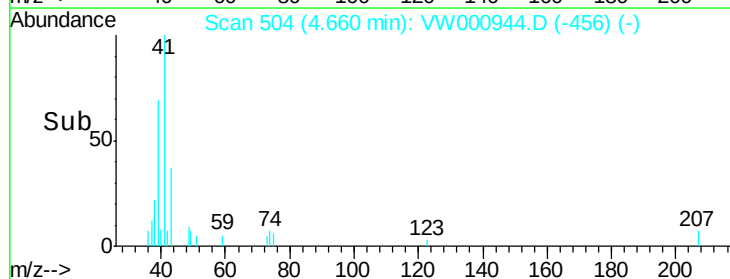
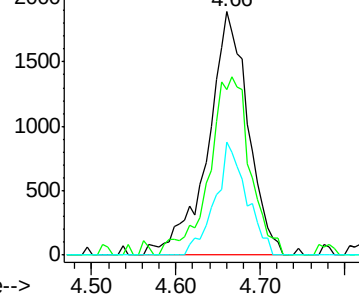
76 36.2 29.9 44.9

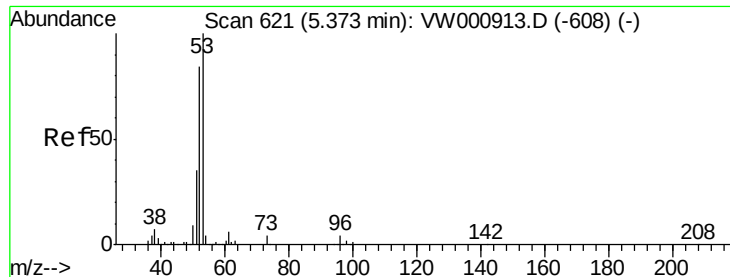


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 75.90 (75.60 to 76.60): VW





#15

Acrylonitrile

Concen: 9.73 ug/l

RT: 5.38 min Scan# 622

Delta R.T. 0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2018

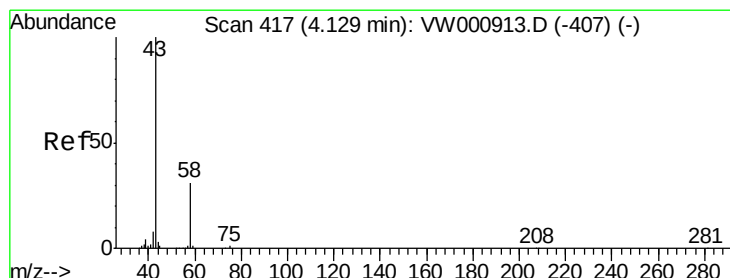
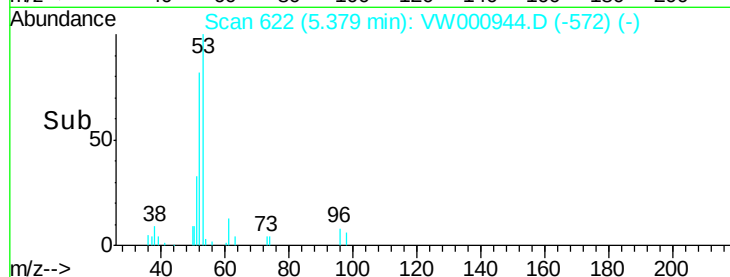
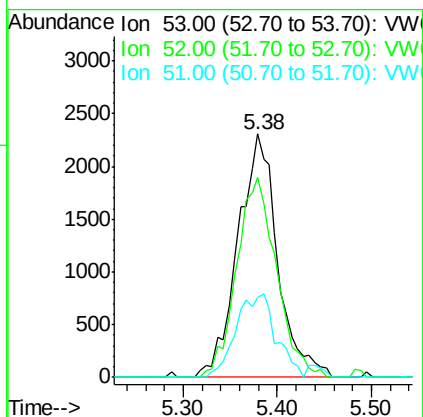
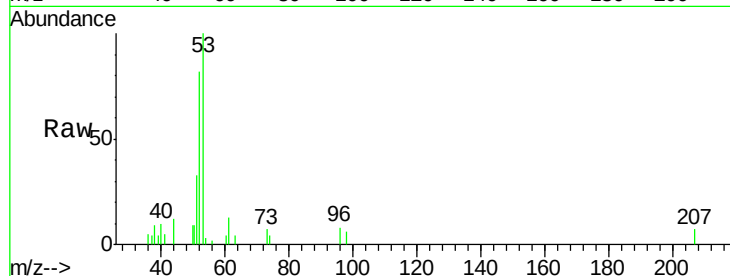
Tgt Ion: 53 Resp: 6815

Ion Ratio Lower Upper

53 100

52 82.5 66.6 99.8

51 34.4 29.4 44.0



#16

Acetone

Concen: 27.74 ug/l

RT: 4.13 min Scan# 417

Delta R.T. 0.00 min

Lab File: VW000944.D

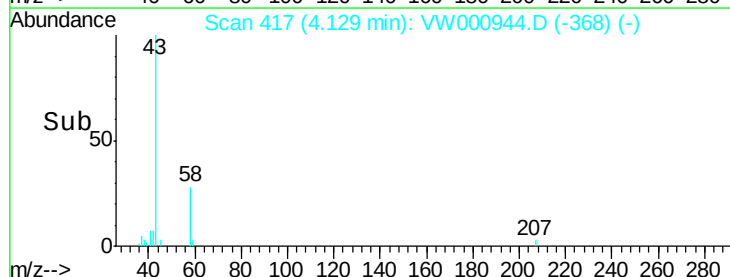
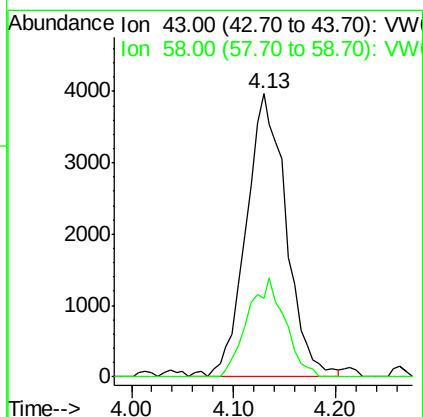
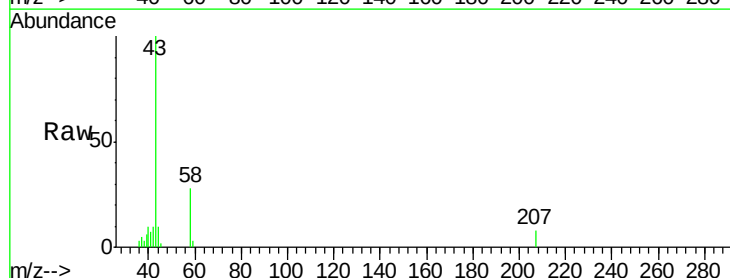
Acq: 24 Jan 2018 13:10

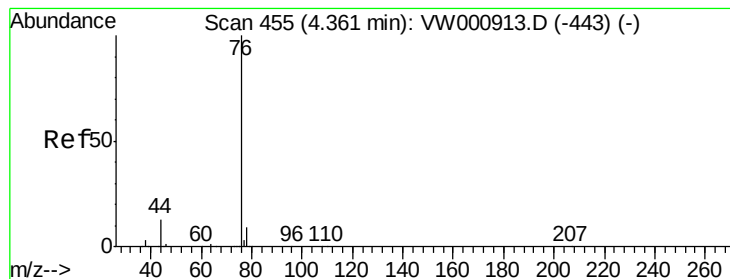
Tgt Ion: 43 Resp: 10846

Ion Ratio Lower Upper

43 100

58 27.8 24.9 37.3





#17

Carbon Disulfide

Concen: 2.03 ug/l

RT: 4.37 min Scan# 456

Delta R.T. 0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

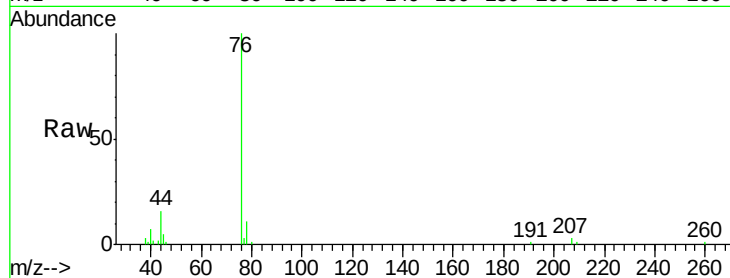
MDL-SOIL-03-QT1-2018

Tgt Ion: 76 Resp: 13359

Ion Ratio Lower Upper

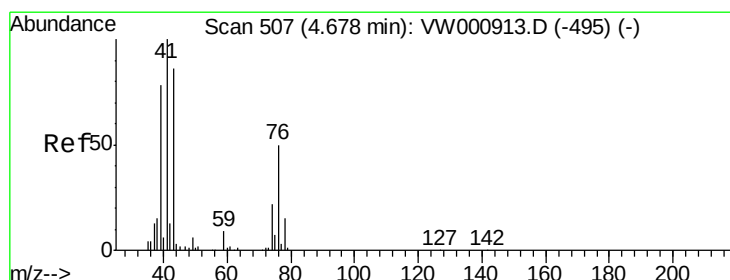
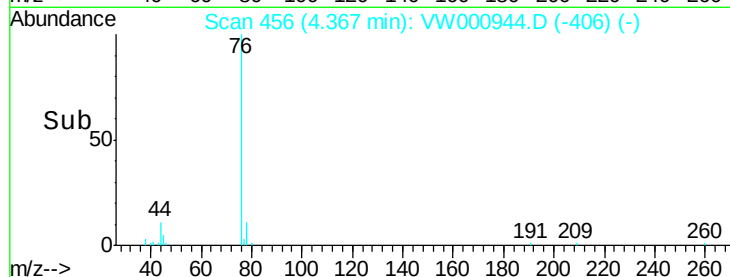
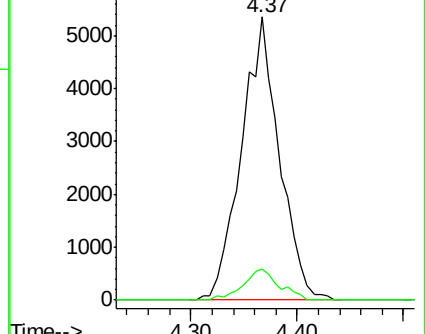
76 100

78 11.2 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: 2.13 ug/l

RT: 4.68 min Scan# 508

Delta R.T. 0.01 min

Lab File: VW000944.D

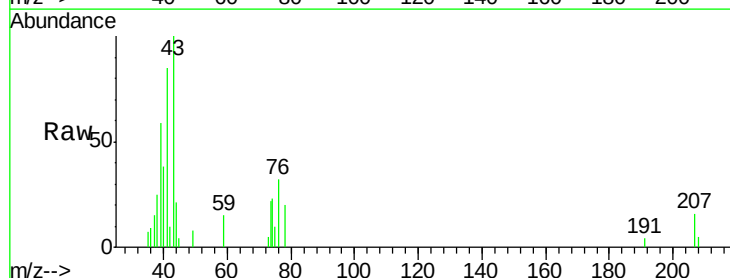
Acq: 24 Jan 2018 13:10

Tgt Ion: 43 Resp: 3690

Ion Ratio Lower Upper

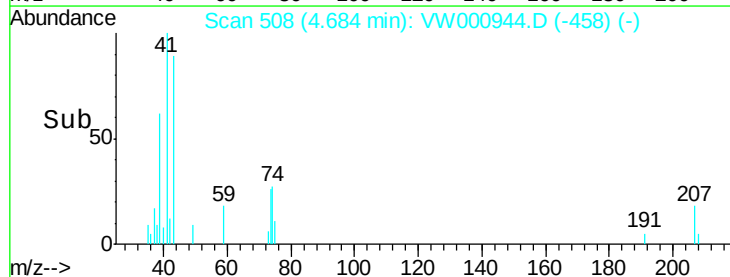
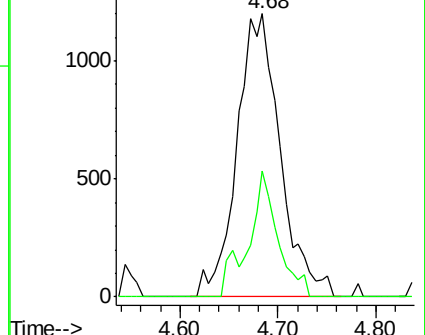
43 100

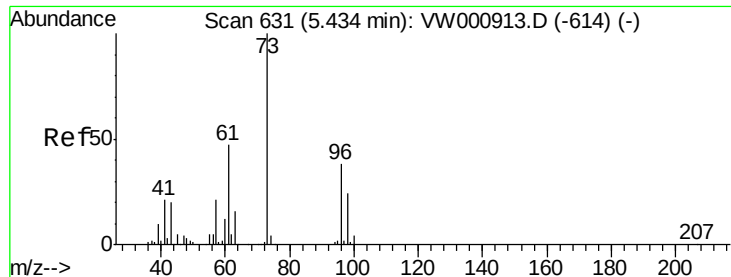
74 25.8 20.5 30.7



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: 1.93 ug/l

RT: 5.43 min Scan# 630

Delta R.T. -0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

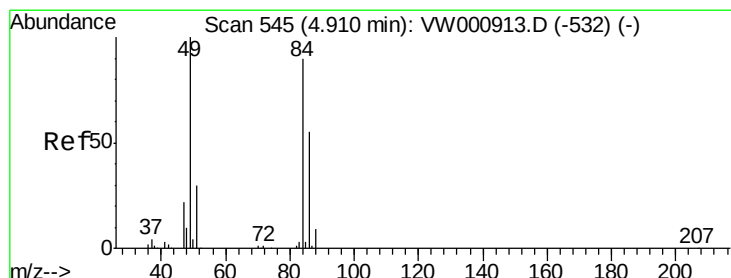
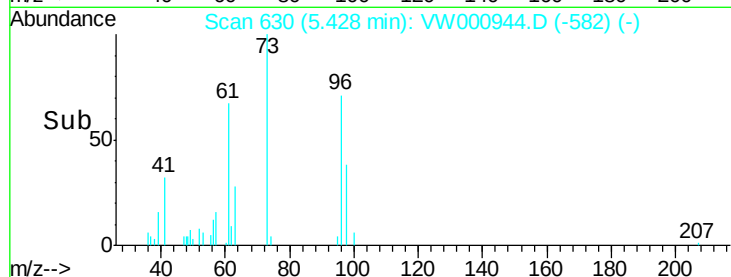
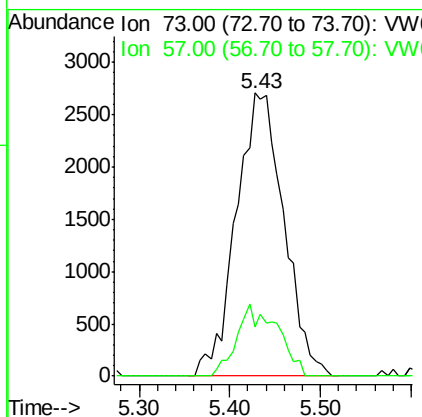
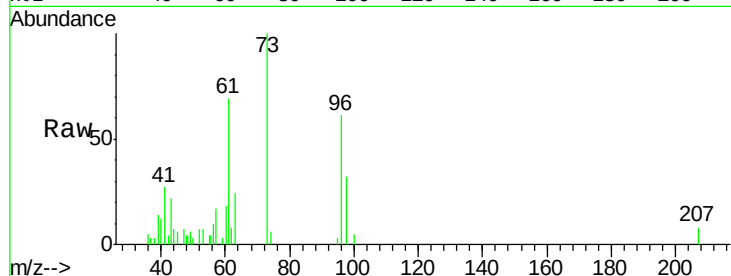
MDL-SOIL-03-QT1-2018

Tgt Ion: 73 Resp: 9862

Ion Ratio Lower Upper

73 100

57 17.4 16.7 25.1



#20

Methylene Chloride

Concen: 2.04 ug/l

RT: 4.91 min Scan# 545

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Tgt Ion: 84 Resp: 10420

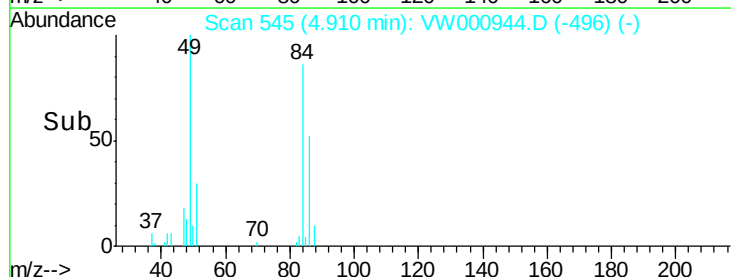
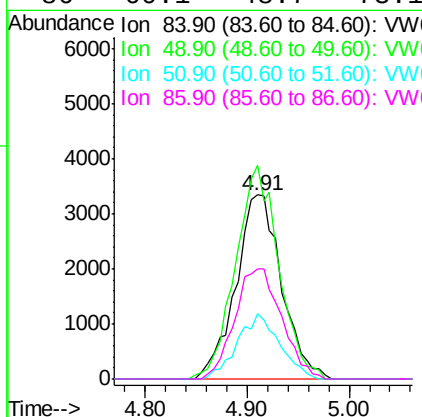
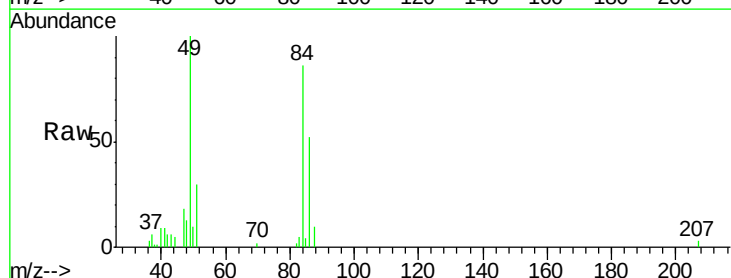
Ion Ratio Lower Upper

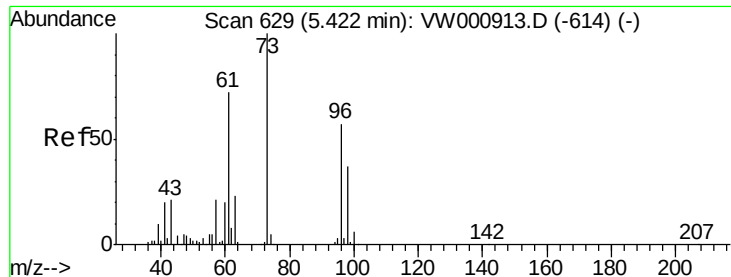
84 100

49 116.2 89.0 133.4

51 35.2 26.7 40.1

86 60.1 48.7 73.1





#21

trans-1,2-Dichloroethene

Concen: 2.00 ug/l

RT: 5.43 min Scan# 630

Delta R.T. 0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2018

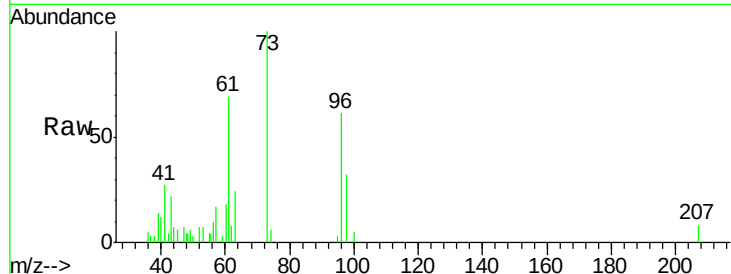
Tgt Ion: 96 Resp: 4624

Ion Ratio Lower Upper

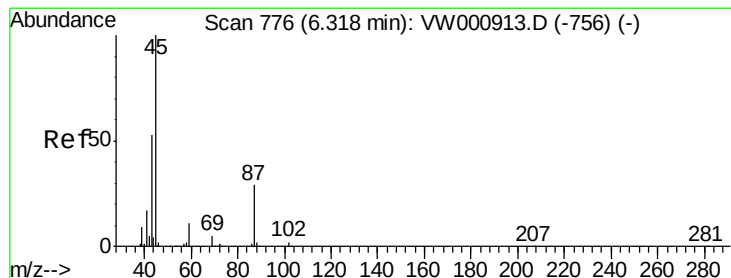
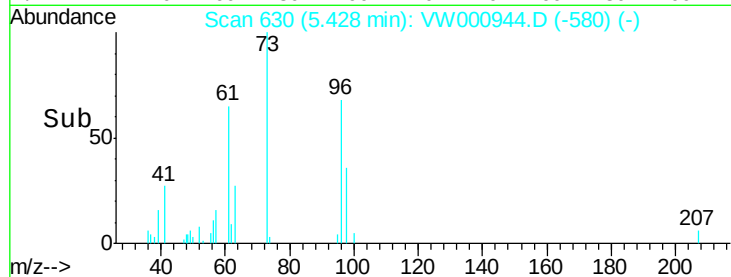
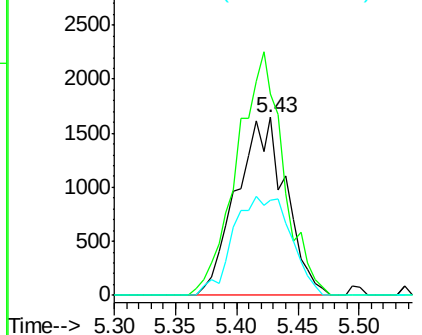
96 100

61 113.4 101.1 151.7

98 53.4 52.2 78.2



Abundance Ion 95.90 (95.60 to 96.60): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 97.90 (97.60 to 98.60): VW



#22

Diisopropyl ether

Concen: 1.72 ug/l

RT: 6.32 min Scan# 776

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Tgt Ion: 45 Resp: 9559

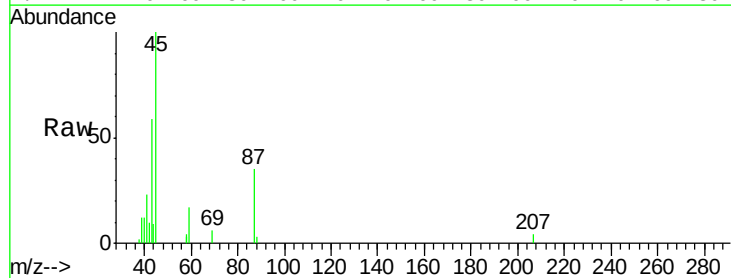
Ion Ratio Lower Upper

45 100

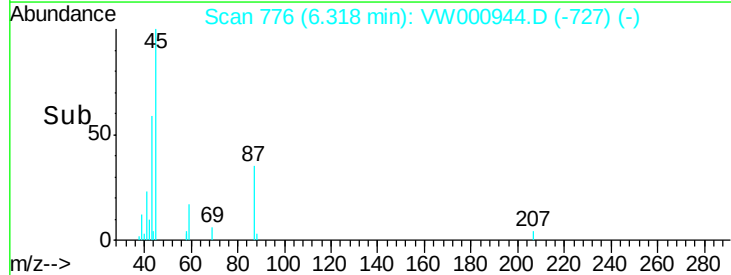
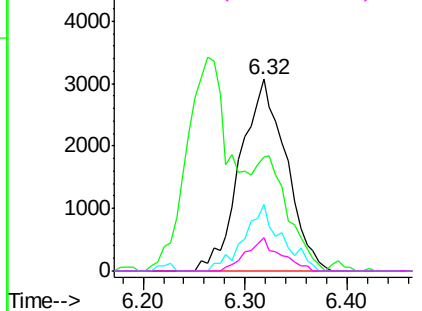
43 54.0 42.7 64.1

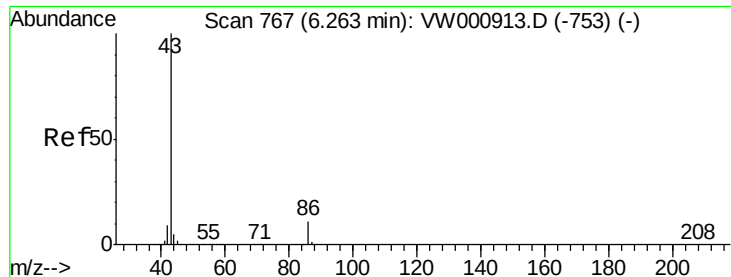
87 35.0 23.8 35.8

59 17.1 9.0 13.6#



Abundance Ion 45.00 (44.70 to 45.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 87.00 (86.70 to 87.70): VW
Ion 59.00 (58.70 to 59.70): VW





#23

Vinyl Acetate

Concen: 3.11 ug/l

RT: 6.26 min Scan# 767

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

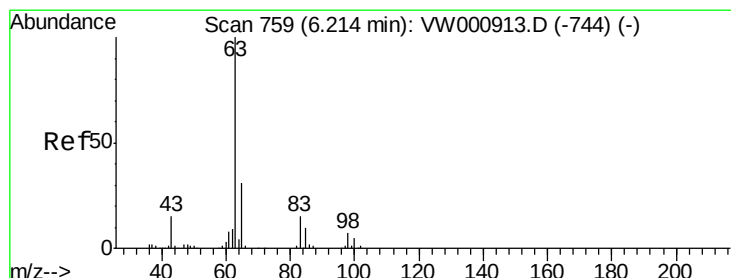
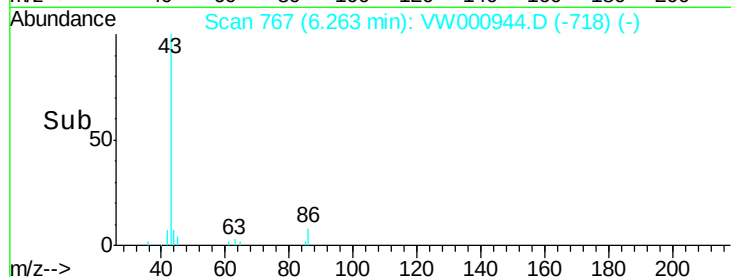
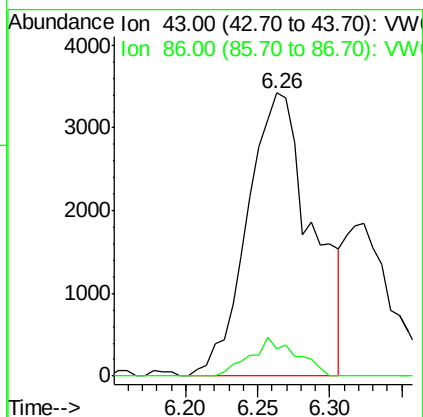
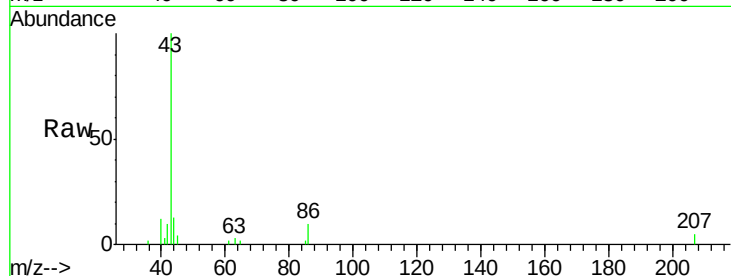
MDL-SOIL-03-QT1-2018

Tgt Ion: 43 Resp: 10728

Ion Ratio Lower Upper

43 100

86 9.8 9.1 13.7



#24

1,1-Dichloroethane

Concen: 2.06 ug/l

RT: 6.23 min Scan# 761

Delta R.T. 0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

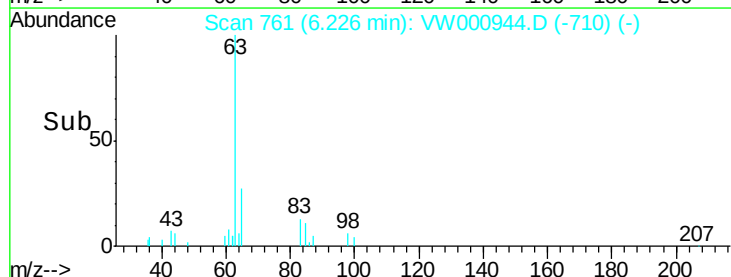
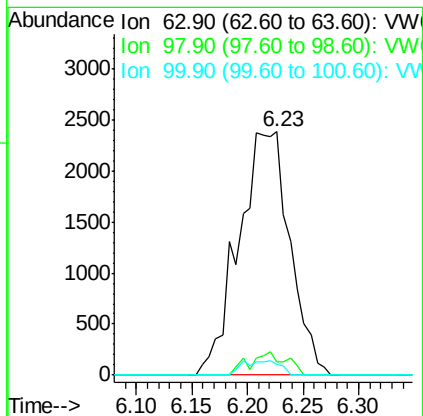
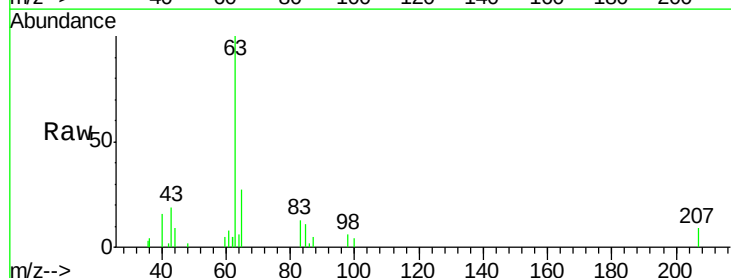
Tgt Ion: 63 Resp: 7647

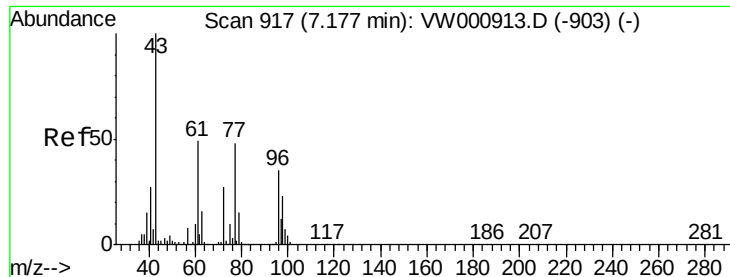
Ion Ratio Lower Upper

63 100

98 5.7 3.6 10.8

100 4.4 2.5 7.4





#25

2-Butanone

Concen: 9.88 ug/l

RT: 7.18 min Scan# 918

Delta R.T. 0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

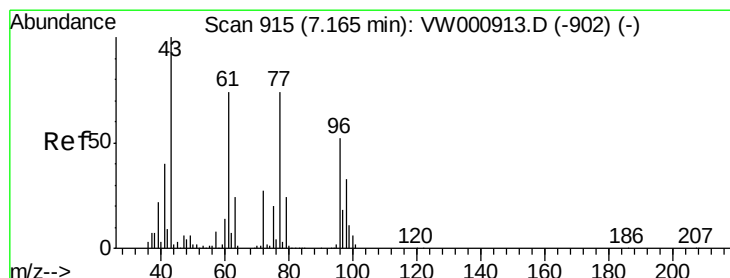
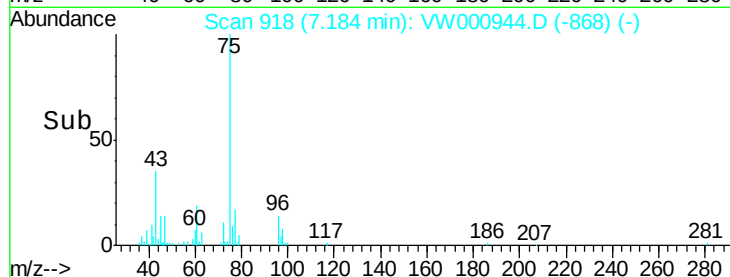
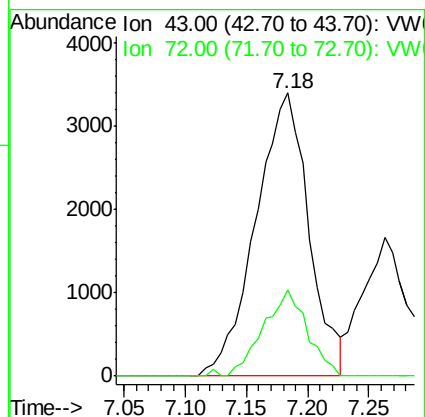
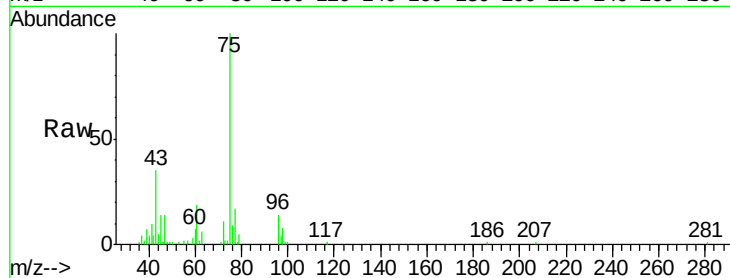
MDL-SOIL-03-QT1-2018

Tgt Ion: 43 Resp: 10277

Ion Ratio Lower Upper

43 100

72 30.4 21.5 32.3



#26

2,2-Dichloropropane

Concen: 2.63 ug/l

RT: 7.17 min Scan# 915

Delta R.T. 0.00 min

Lab File: VW000944.D

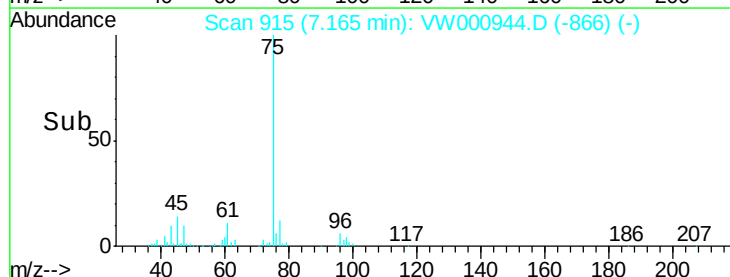
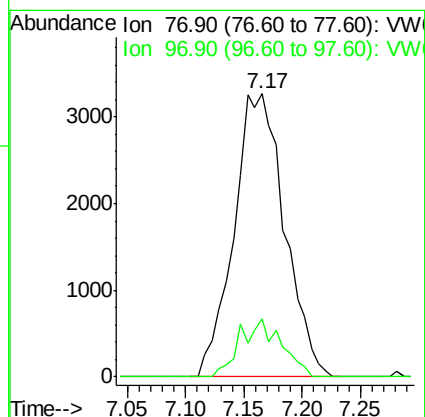
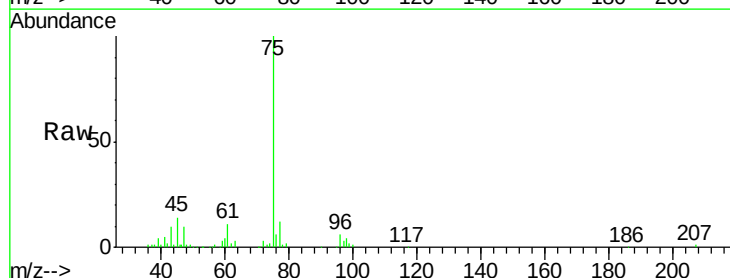
Acq: 24 Jan 2018 13:10

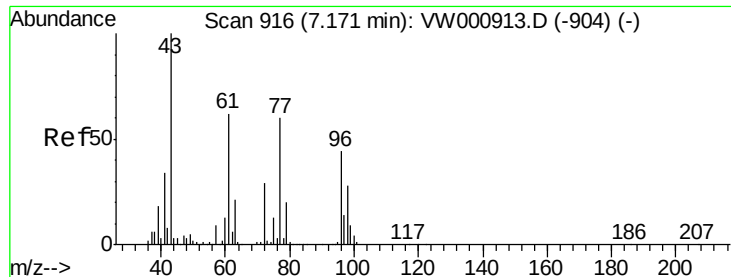
Tgt Ion: 77 Resp: 9880

Ion Ratio Lower Upper

77 100

97 16.7 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 1.83 ug/l

RT: 7.17 min Scan# 915

Delta R.T. -0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2018

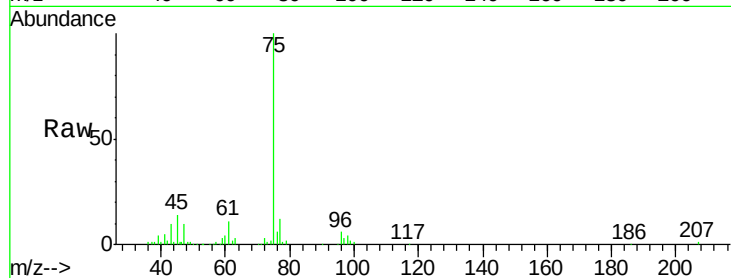
Tgt Ion: 96 Resp: 4376

Ion Ratio Lower Upper

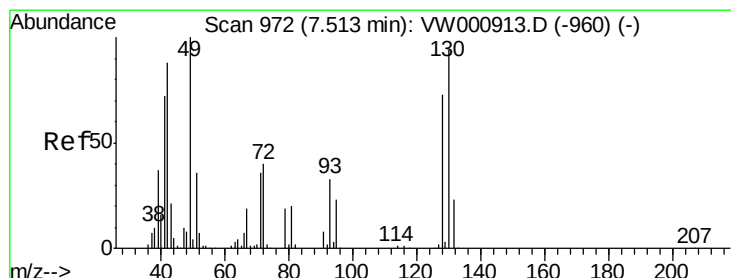
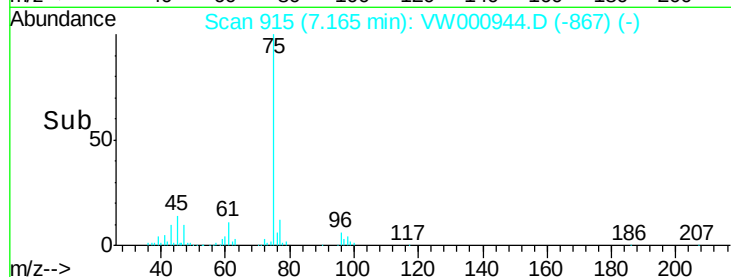
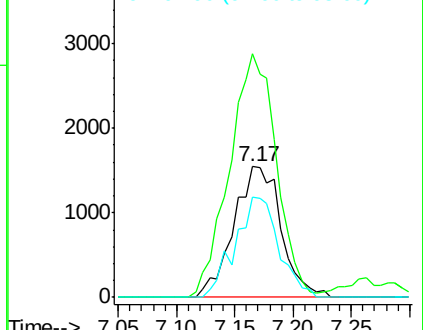
96 100

61 184.6 0.0 279.8

98 70.5 0.0 127.6



Abundance Ion 95.90 (95.60 to 96.60): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 97.90 (97.60 to 98.60): VW



#28

Bromochloromethane

Concen: 1.81 ug/l

RT: 7.51 min Scan# 971

Delta R.T. -0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

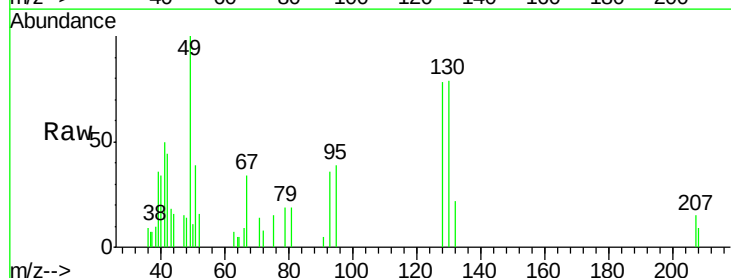
Tgt Ion: 49 Resp: 2823

Ion Ratio Lower Upper

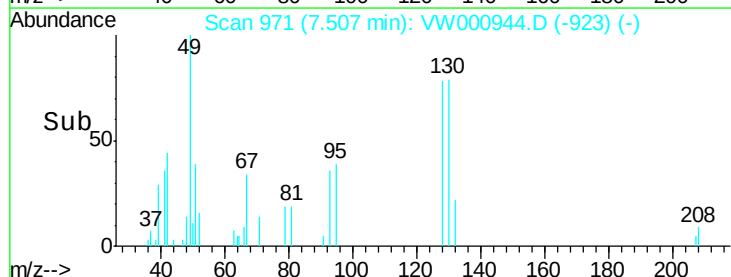
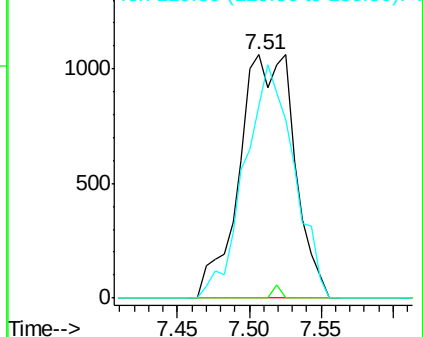
49 100

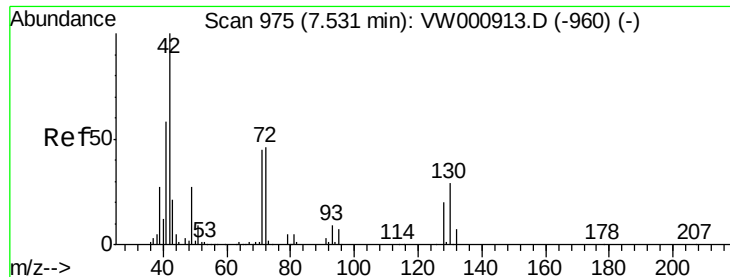
129 0.7 0.0 2.8

130 85.5 73.8 110.6



Abundance Ion 48.90 (48.60 to 49.60): VW
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V

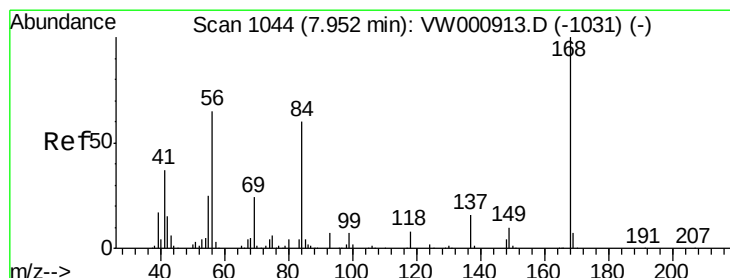
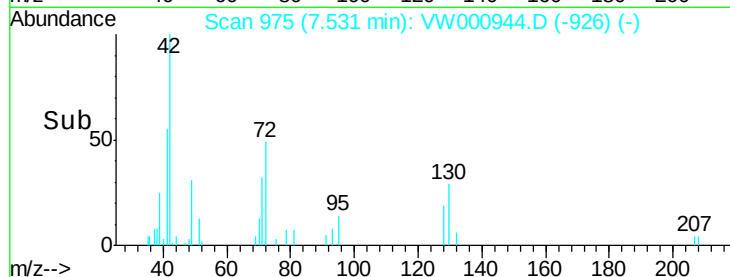
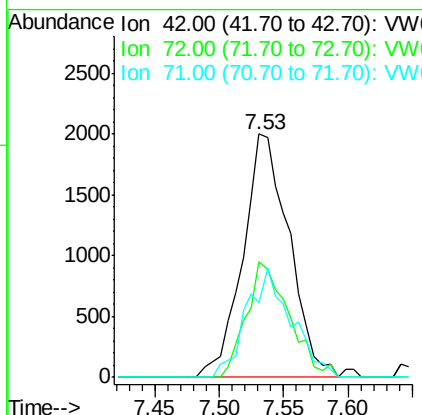
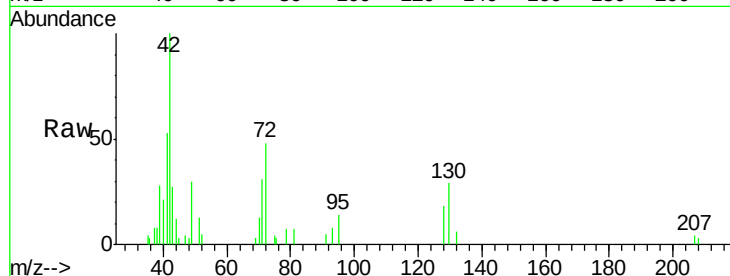




#29
Tetrahydrofuran
Concen: 8.67 ug/l
RT: 7.53 min Scan# 975
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

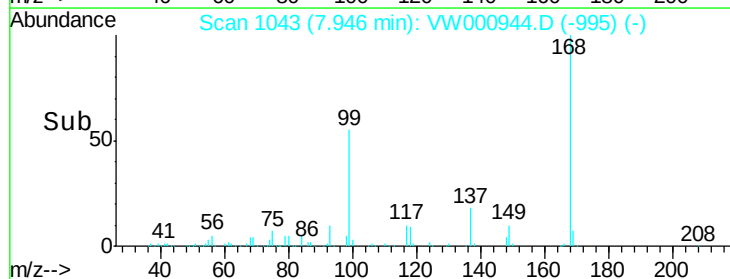
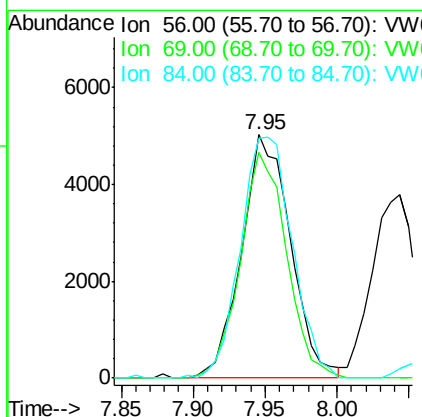
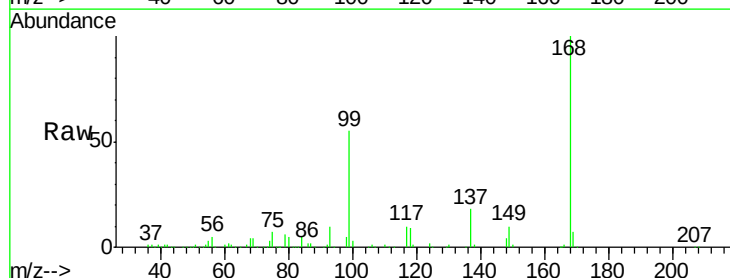
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2018

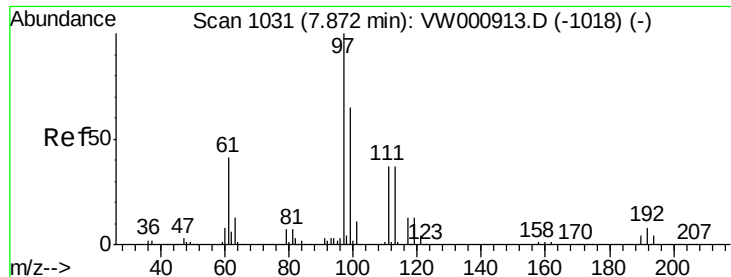
Tgt Ion: 42 Resp: 4963
Ion Ratio Lower Upper
42 100
72 43.8 37.1 55.7
71 43.8 34.9 52.3



#31
Cyclohexane
Concen: 3.09 ug/l
RT: 7.95 min Scan# 1043
Delta R.T. -0.01 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Tgt Ion: 56 Resp: 11842
Ion Ratio Lower Upper
56 100
69 92.8 29.2 43.8#
84 98.4 73.6 110.4





#32

1,1,1-Trichloroethane

Concen: 2.01 ug/l

RT: 7.87 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2018

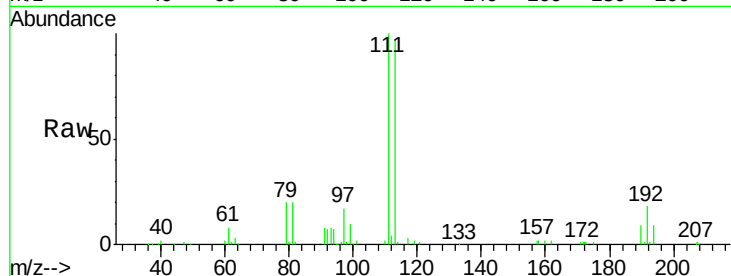
Tgt Ion: 97 Resp: 7791

Ion Ratio Lower Upper

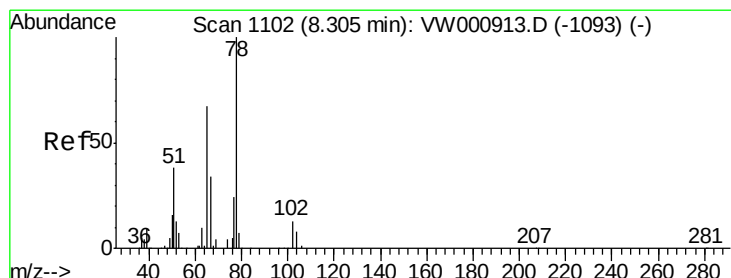
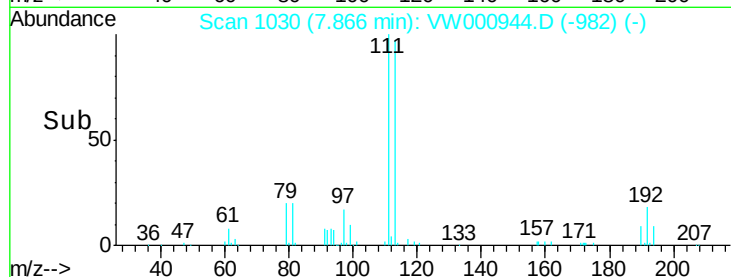
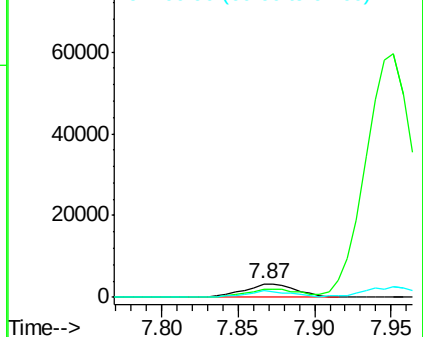
97 100

99 64.4 52.6 78.8

61 42.3 32.9 49.3



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: 50.67 ug/l

RT: 8.31 min Scan# 1103

Delta R.T. 0.01 min

Lab File: VW000944.D

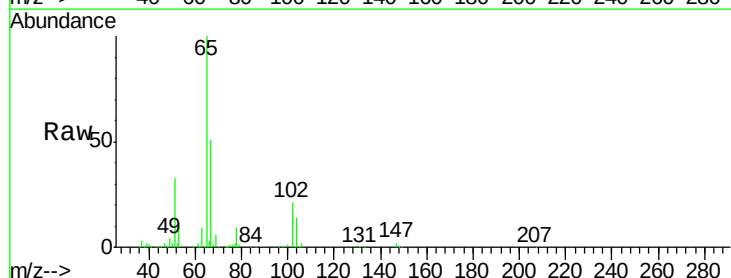
Acq: 24 Jan 2018 13:10

Tgt Ion: 65 Resp: 119171

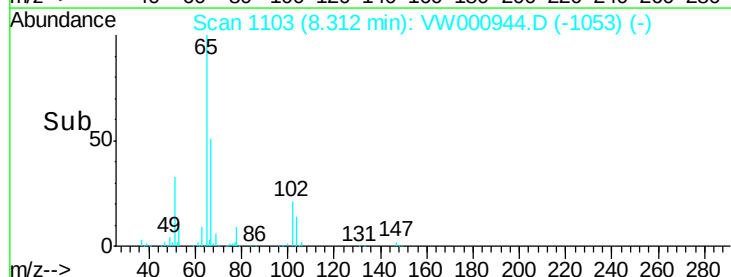
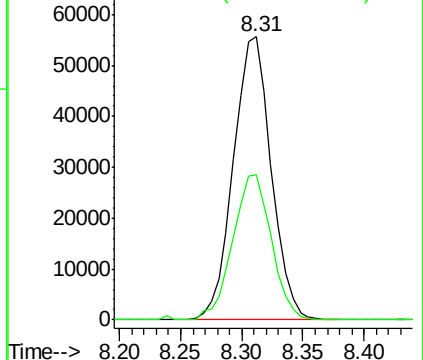
Ion Ratio Lower Upper

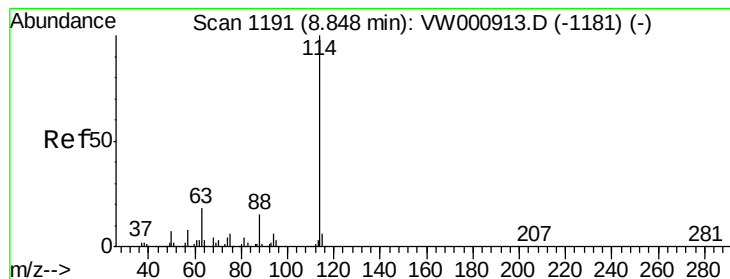
65 100

67 52.5 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.85 min Scan# 1191

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2018

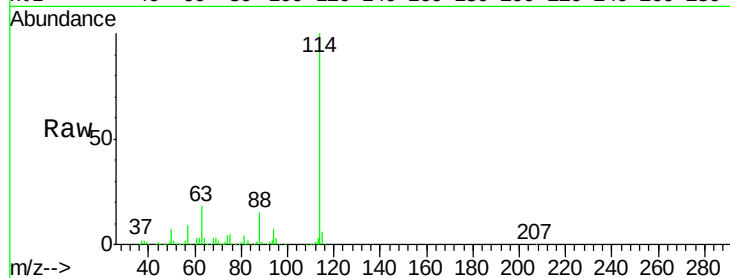
Tgt Ion:114 Resp: 359900

Ion Ratio Lower Upper

114 100

63 18.5 0.0 36.8

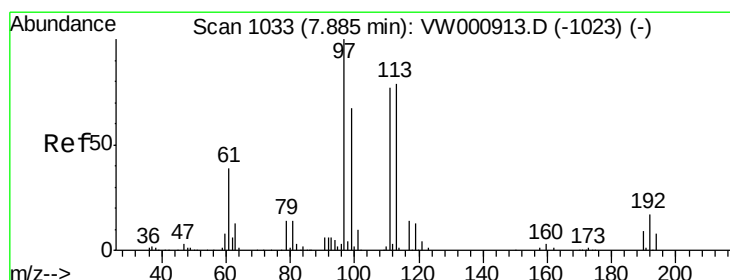
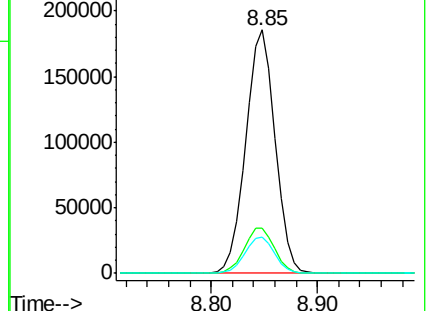
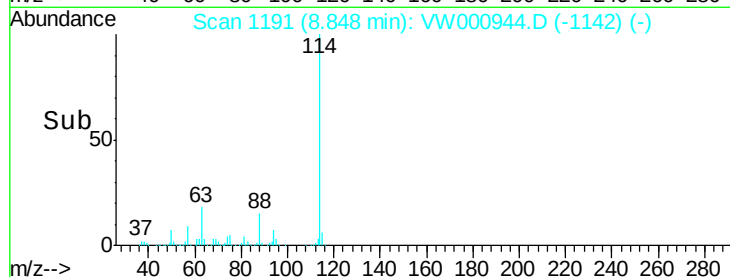
88 14.7 0.0 29.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 43.62 ug/l

RT: 7.89 min Scan# 1034

Delta R.T. 0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

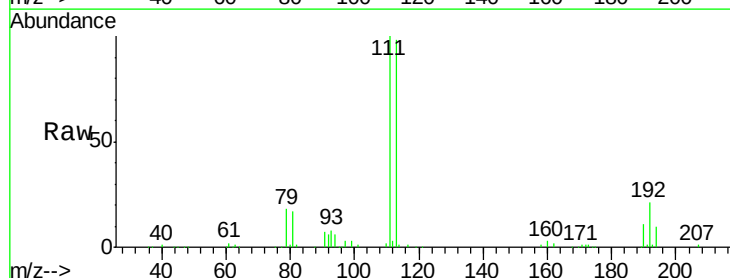
Tgt Ion:113 Resp: 96179

Ion Ratio Lower Upper

113 100

111 103.4 80.4 120.6

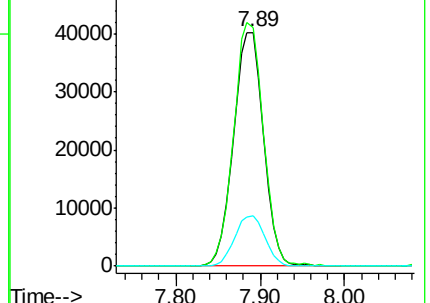
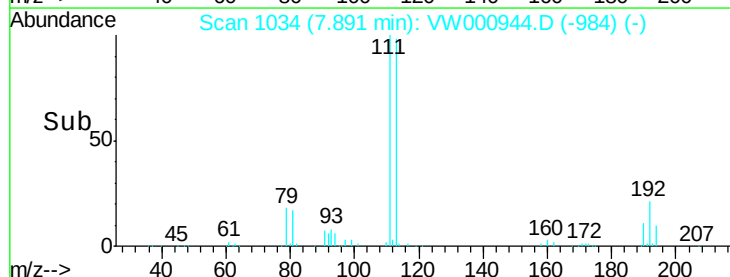
192 21.7 17.0 25.4

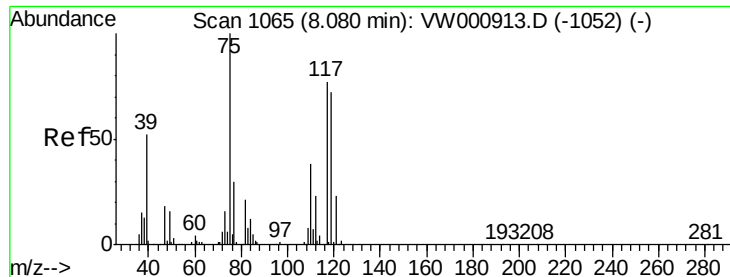


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 2.02 ug/l

RT: 8.08 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2018

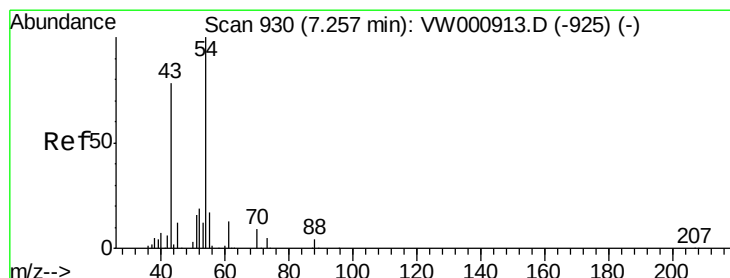
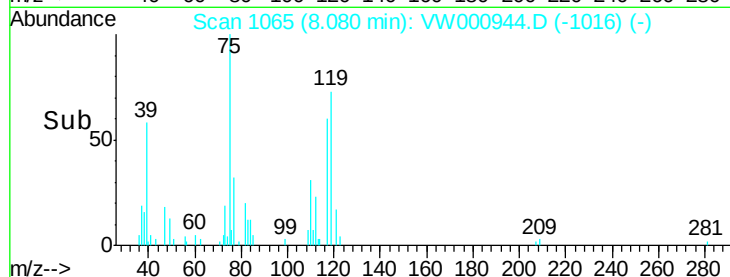
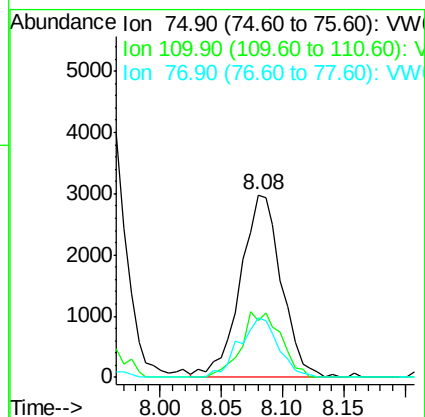
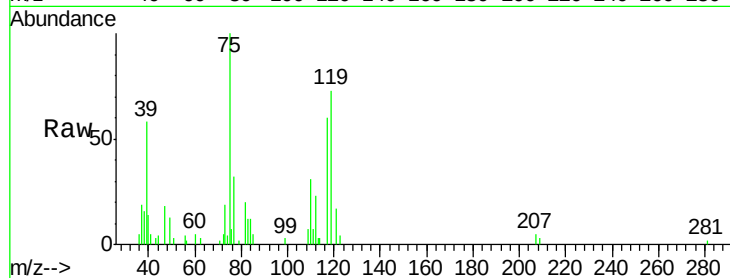
Tgt Ion: 75 Resp: 6947

Ion Ratio Lower Upper

75 100

110 34.8 18.6 56.0

77 31.2 24.6 36.8



#37

Ethyl Acetate

Concen: 2.01 ug/l

RT: 7.26 min Scan# 931

Delta R.T. 0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

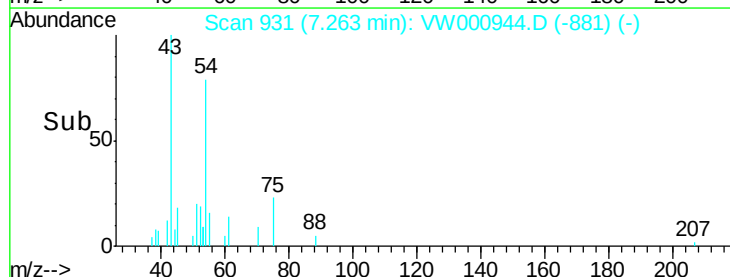
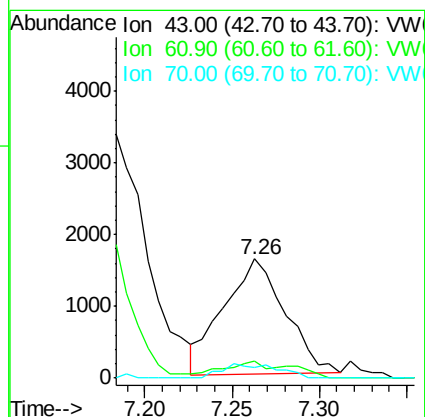
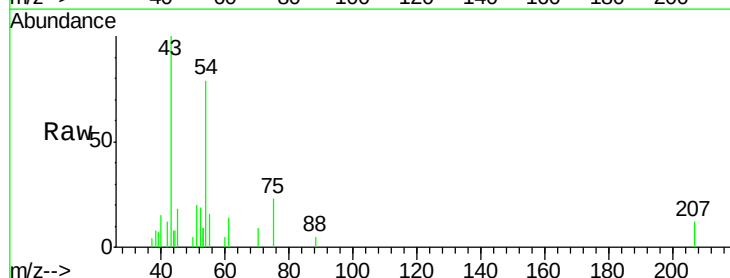
Tgt Ion: 43 Resp: 3892

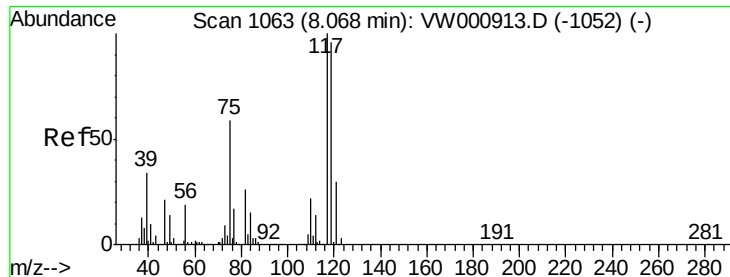
Ion Ratio Lower Upper

43 100

61 7.1 12.1 18.1#

70 11.1 9.1 13.7





#38

Carbon Tetrachloride

Concen: 1.74 ug/l

RT: 8.06 min Scan# 1062

Delta R.T. -0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2018

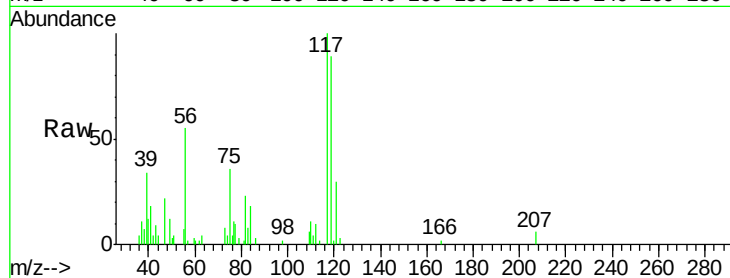
Tgt Ion: 117 Resp: 6588

Ion Ratio Lower Upper

117 100

119 89.4 76.5 114.7

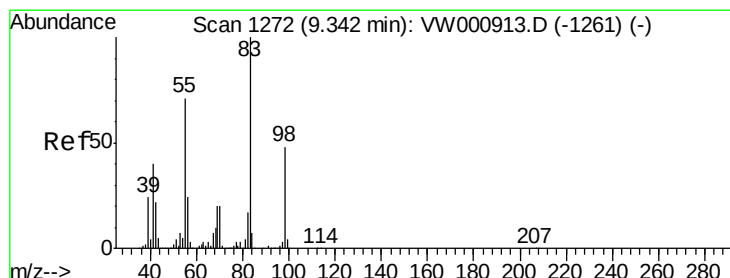
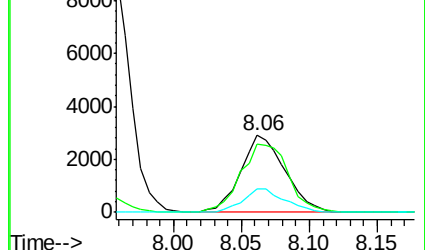
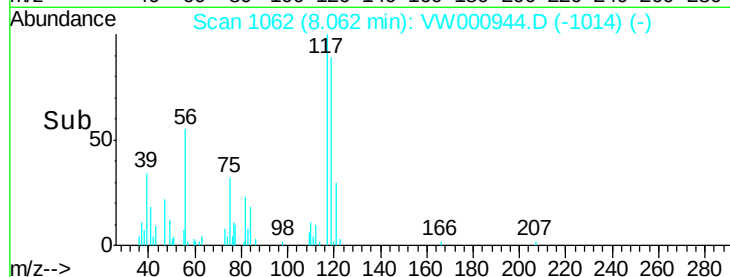
121 30.2 24.3 36.5



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 1.85 ug/l

RT: 9.34 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

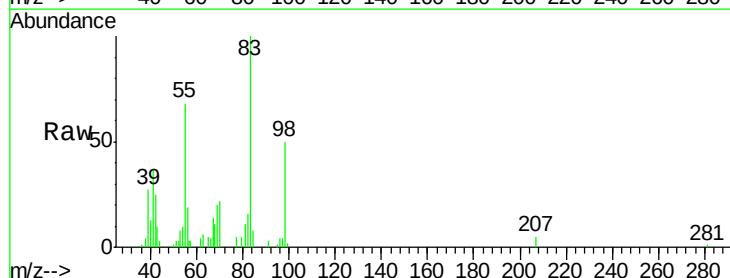
Tgt Ion: 83 Resp: 7635

Ion Ratio Lower Upper

83 100

55 68.0 56.4 84.6

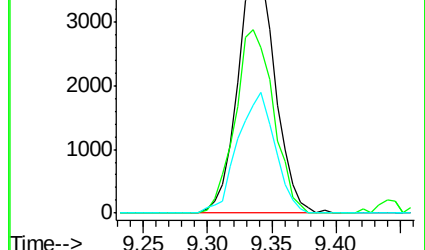
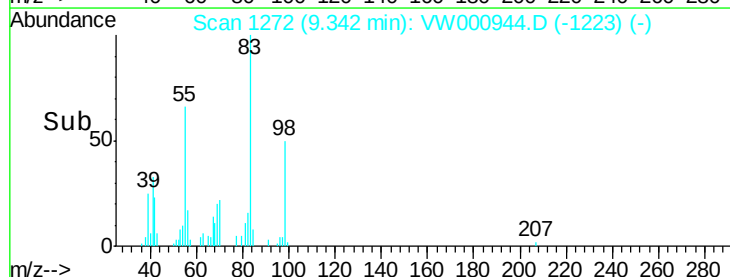
98 49.6 38.2 57.4

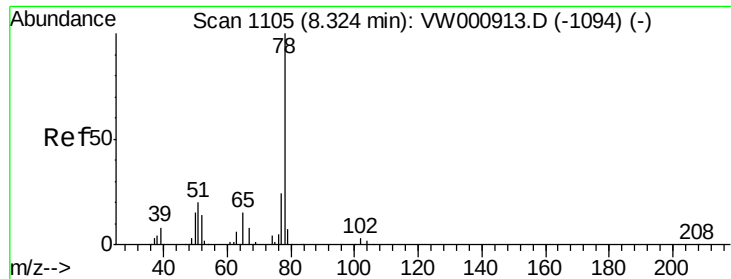


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 98.00 (97.70 to 98.70): VW





#40

Benzene

Concen: 1.95 ug/l

RT: 8.32 min Scan# 1105

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

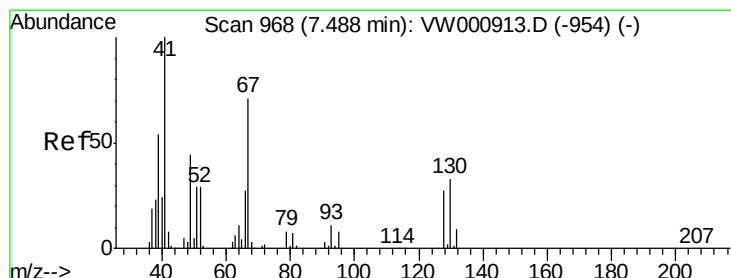
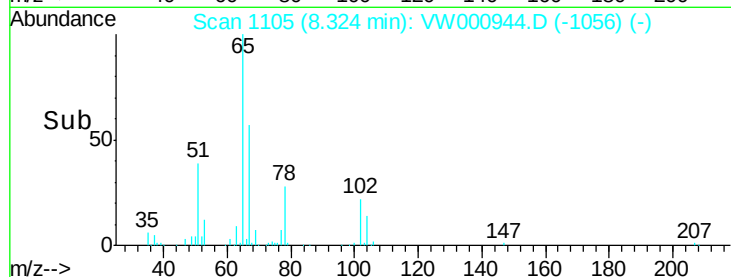
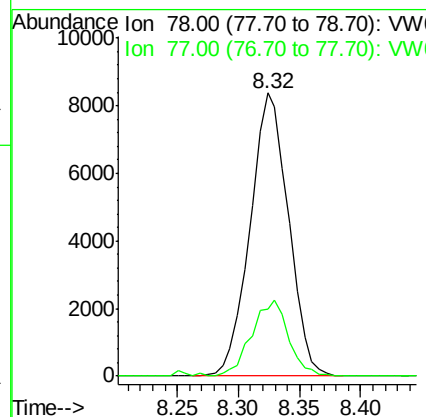
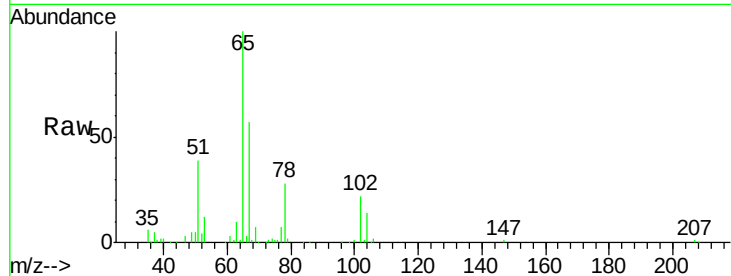
MDL-SOIL-03-QT1-2018

Tgt Ion: 78 Resp: 18249

Ion Ratio Lower Upper

78 100

77 23.8 19.0 28.6



#41

Methacrylonitrile

Concen: 1.63 ug/l

RT: 7.49 min Scan# 968

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Tgt Ion: 41 Resp: 1773

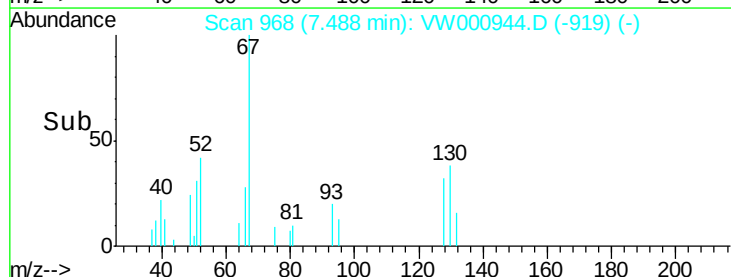
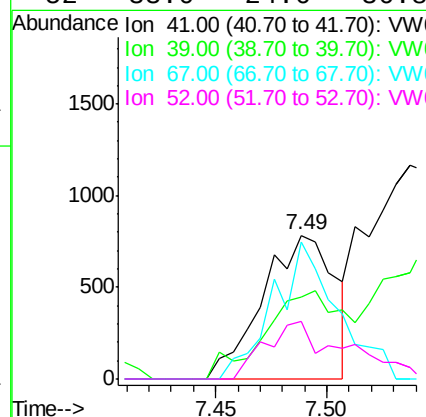
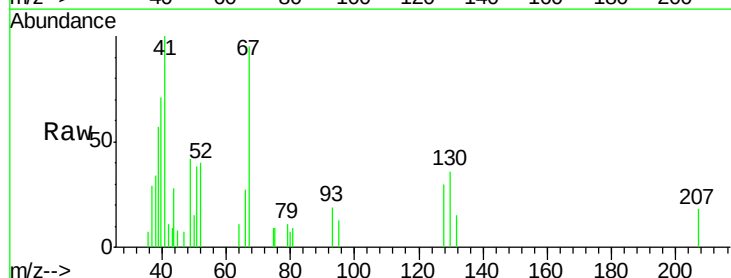
Ion Ratio Lower Upper

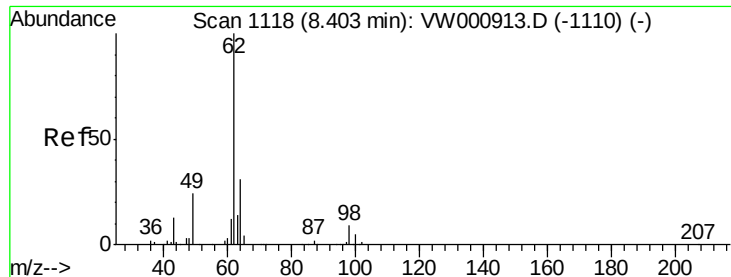
41 100

39 67.7 43.4 65.0#

67 83.9 59.0 88.4

52 33.0 24.6 36.8

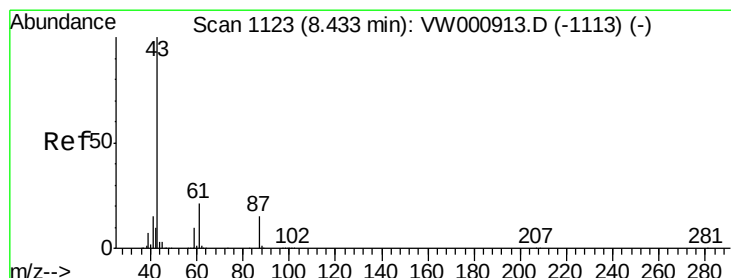
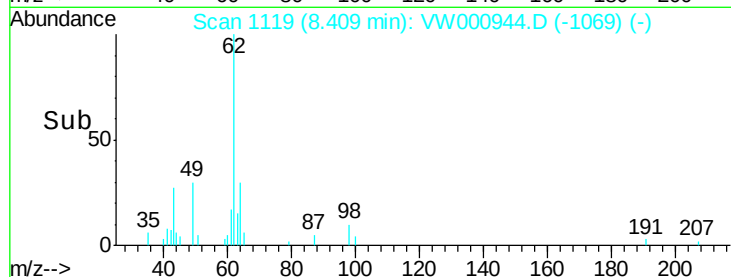
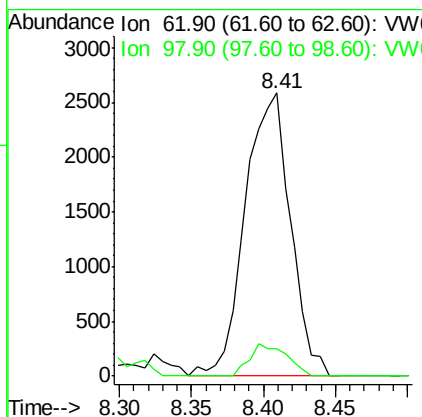
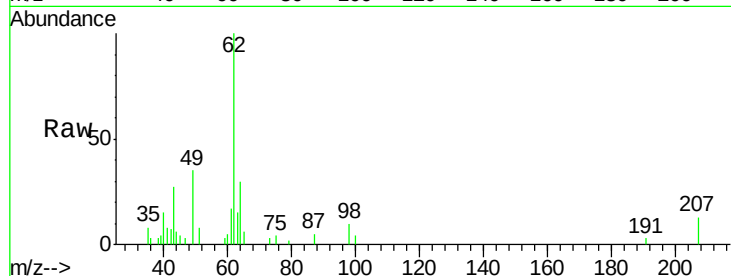




#42
1,2-Dichloroethane
Concen: 1.96 ug/l
RT: 8.41 min Scan# 1119
Delta R.T. 0.01 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

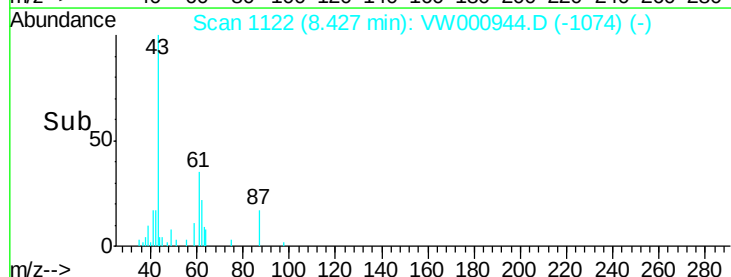
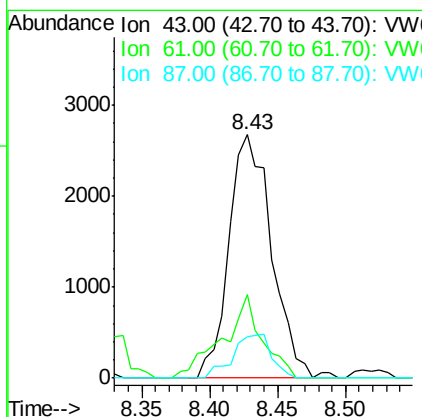
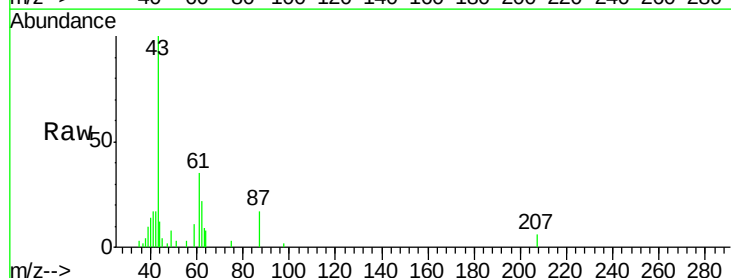
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2018

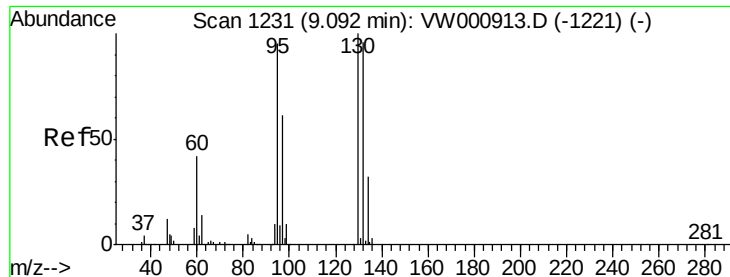
Tgt Ion: 62 Resp: 5631
Ion Ratio Lower Upper
62 100
98 9.2 0.0 18.0



#43
Isopropyl Acetate
Concen: 1.79 ug/l
RT: 8.43 min Scan# 1122
Delta R.T. -0.01 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Tgt Ion: 43 Resp: 5870
Ion Ratio Lower Upper
43 100
61 31.7 23.6 35.4
87 16.3 11.7 17.5





#44

Trichloroethene

Concen: 2.10 ug/l

RT: 9.09 min Scan# 1231

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

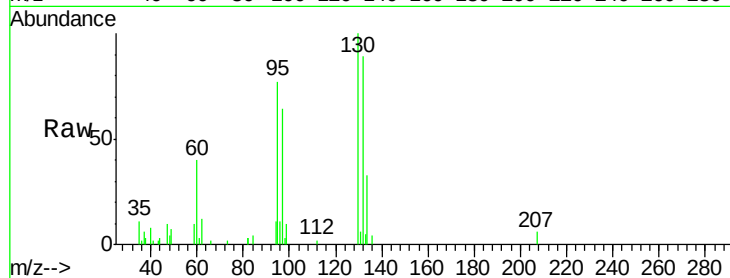
MDL-SOIL-03-QT1-2018

Tgt Ion:130 Resp: 5827

Ion Ratio Lower Upper

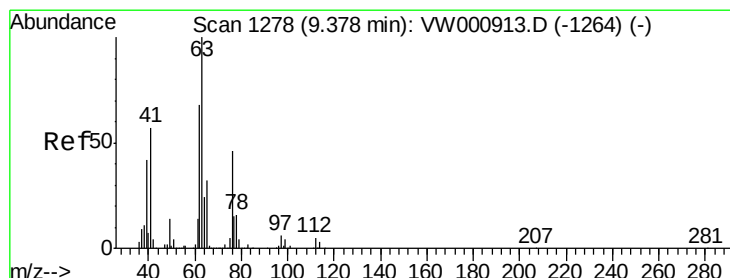
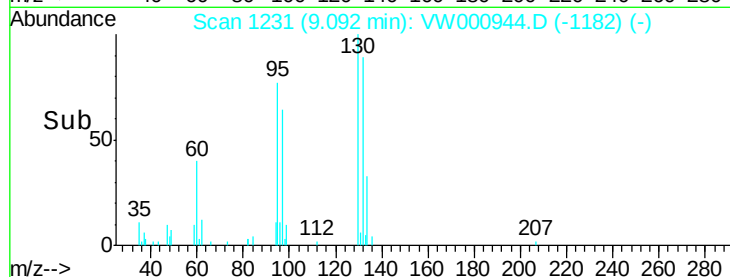
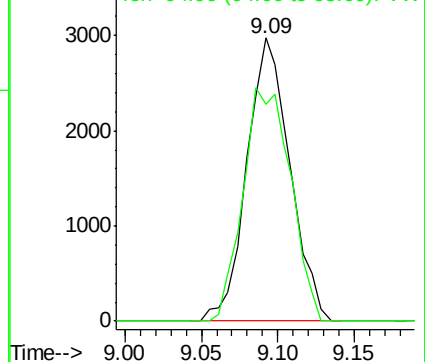
130 100

95 76.7 0.0 190.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW



#45

1,2-Dichloropropane

Concen: 2.00 ug/l

RT: 9.37 min Scan# 1277

Delta R.T. -0.01 min

Lab File: VW000944.D

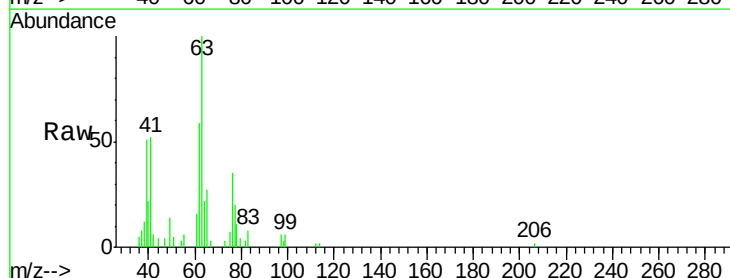
Acq: 24 Jan 2018 13:10

Tgt Ion: 63 Resp: 4363

Ion Ratio Lower Upper

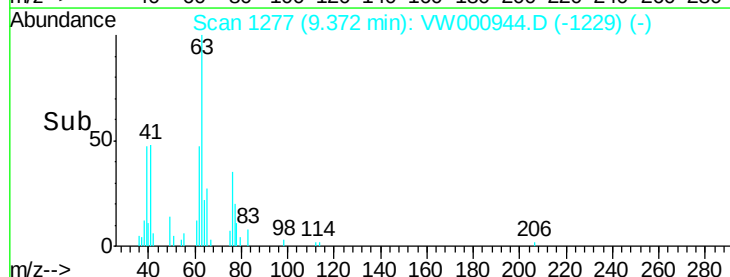
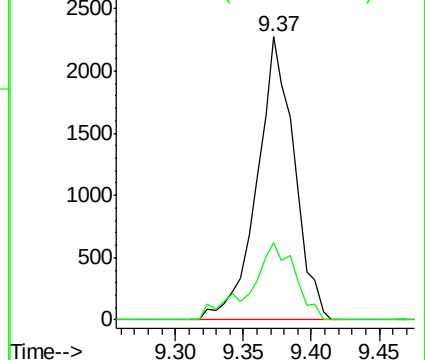
63 100

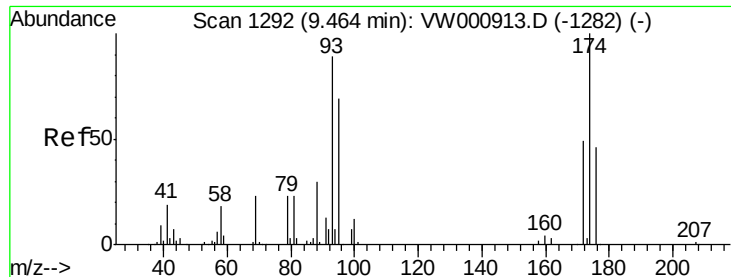
65 27.4 25.2 37.8



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 64.90 (64.60 to 65.60): VW





#46

Dibromomethane

Concen: 1.70 ug/l

RT: 9.46 min Scan# 1291

Delta R.T. -0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2018

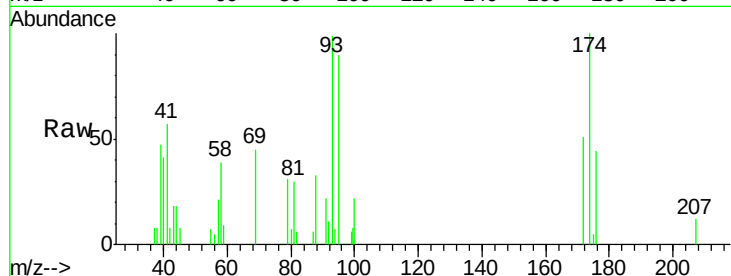
Tgt Ion: 93 Resp: 2366

Ion Ratio Lower Upper

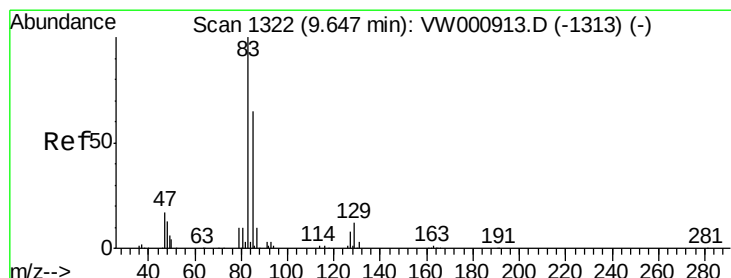
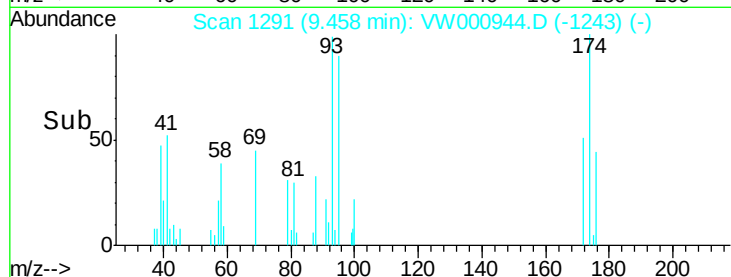
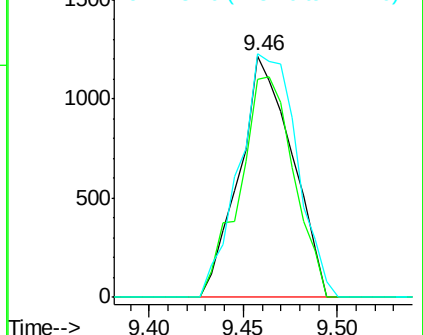
93 100

95 93.4 65.8 98.6

174 110.1 89.0 133.6



Abundance Ion 92.80 (92.50 to 93.50): VW
Ion 94.80 (94.50 to 95.50): VW
Ion 173.70 (173.40 to 174.40): V



#47

Bromodichloromethane

Concen: 1.72 ug/l

RT: 9.65 min Scan# 1322

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

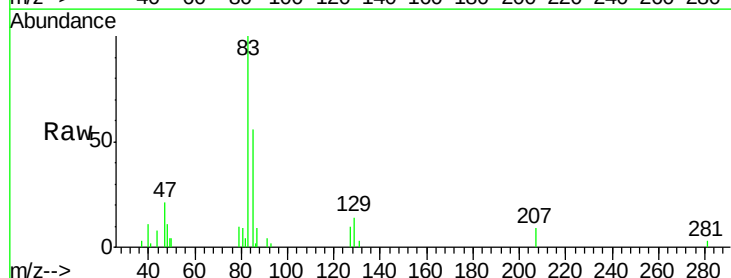
Tgt Ion: 83 Resp: 5298

Ion Ratio Lower Upper

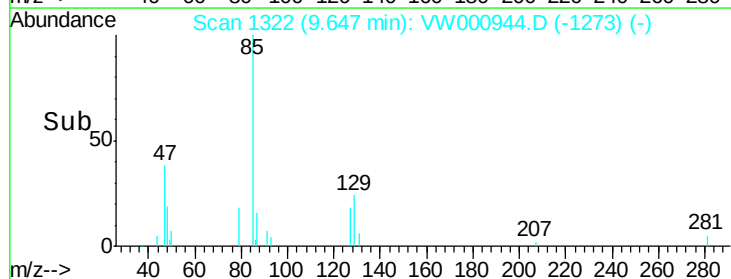
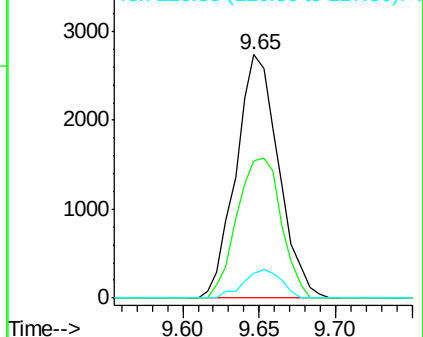
83 100

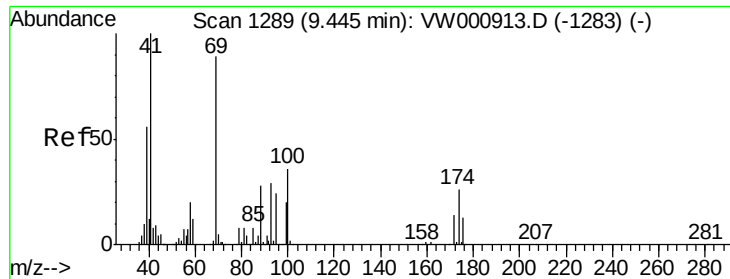
85 56.2 52.0 78.0

127 10.0 6.8 10.2



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): V

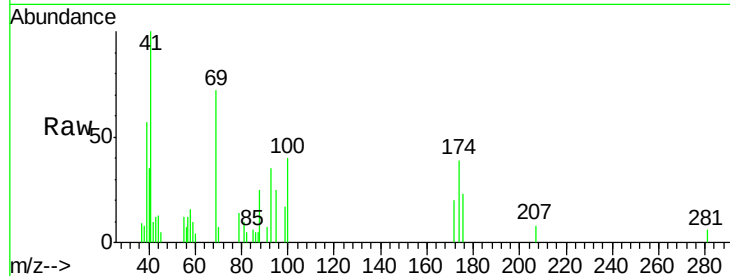




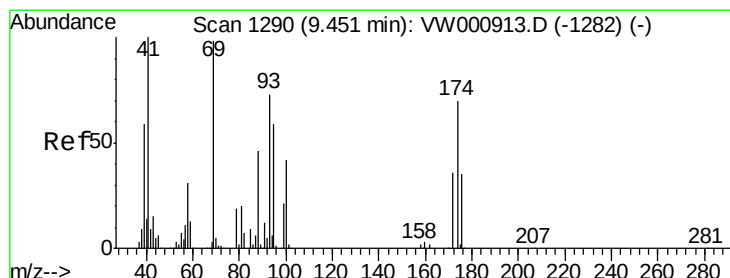
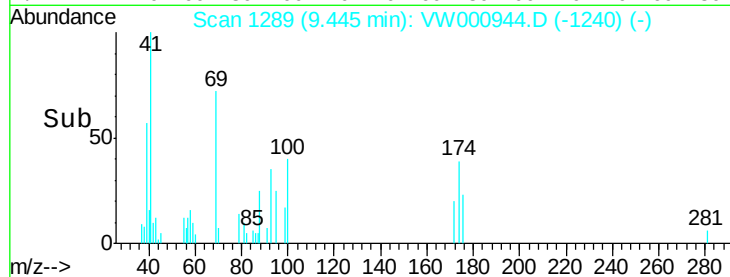
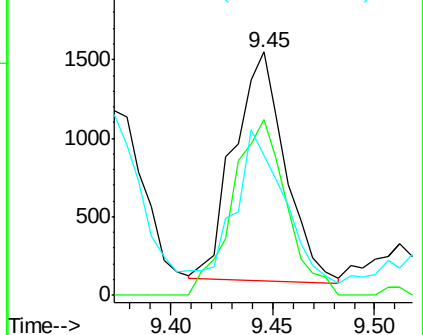
#48
Methyl methacrylate
Concen: 1.61 ug/l
RT: 9.45 min Scan# 1289
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2018

Tgt Ion: 41 Resp: 2540
Ion Ratio Lower Upper
41 100
69 80.6 72.9 109.3
39 74.6 48.4 72.6#

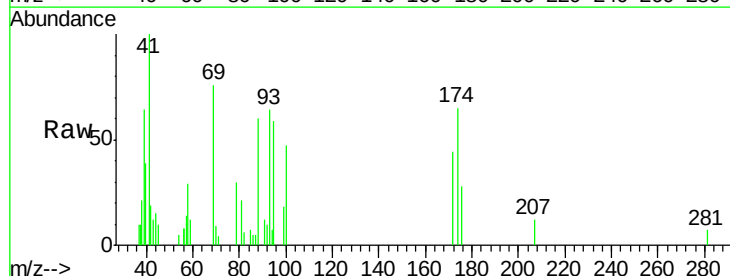


Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 39.00 (38.70 to 39.70): VW

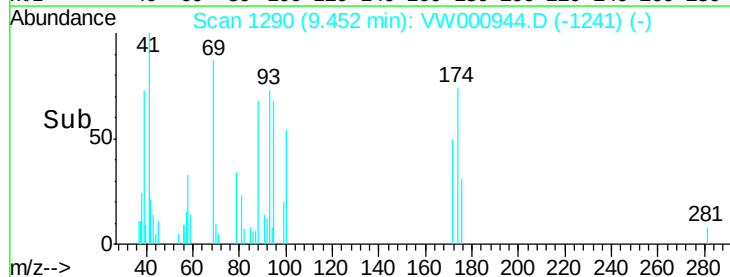
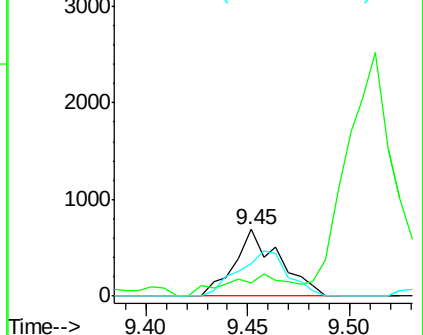


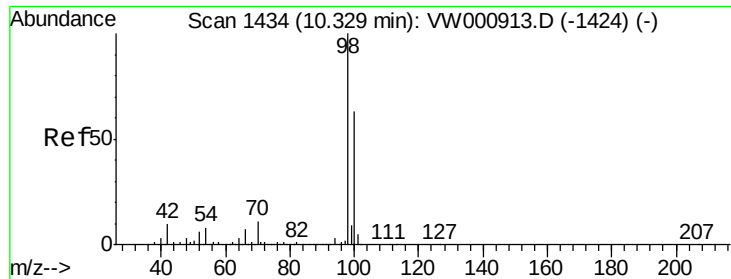
#49
1,4-Dioxane
Concen: 34.78 ug/l
RT: 9.45 min Scan# 1290
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Tgt Ion: 88 Resp: 1058
Ion Ratio Lower Upper
88 100
43 44.4 24.5 36.7#
58 75.1 54.7 82.1



Abundance Ion 88.00 (87.70 to 88.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 48.86 ug/l

RT: 10.34 min Scan# 1435

Delta R.T. 0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

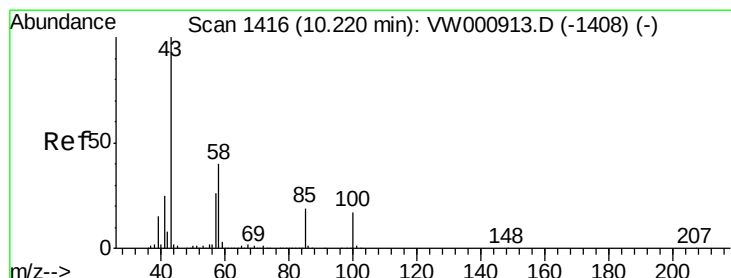
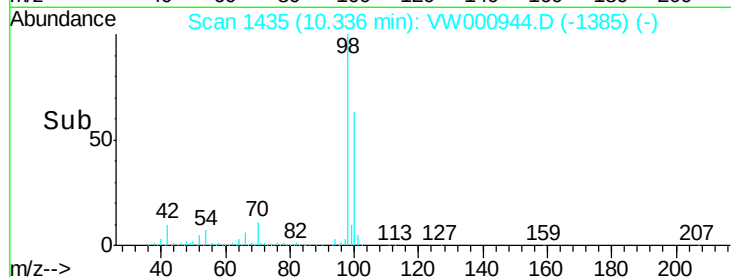
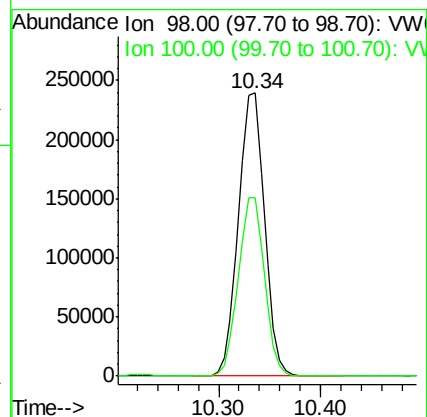
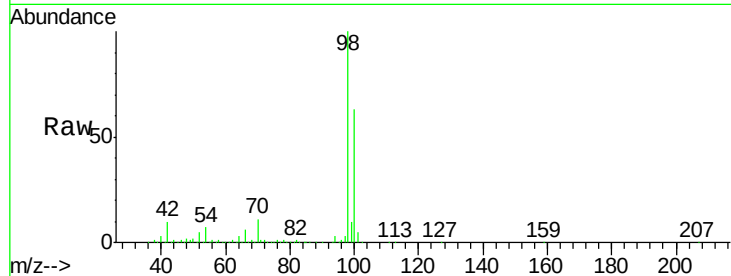
MDL-SOIL-03-QT1-2018

Tgt Ion: 98 Resp: 424722

Ion Ratio Lower Upper

98 100

100 62.9 50.8 76.2



#51

4-Methyl-2-Pentanone

Concen: 8.15 ug/l

RT: 10.22 min Scan# 1416

Delta R.T. 0.00 min

Lab File: VW000944.D

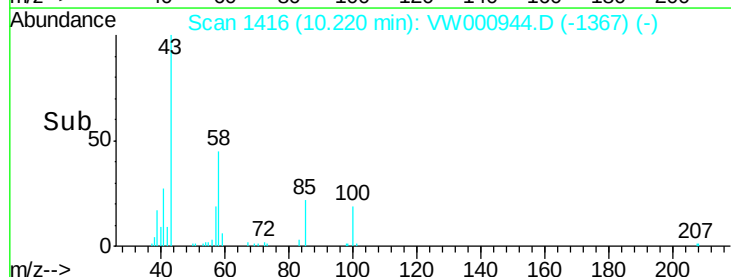
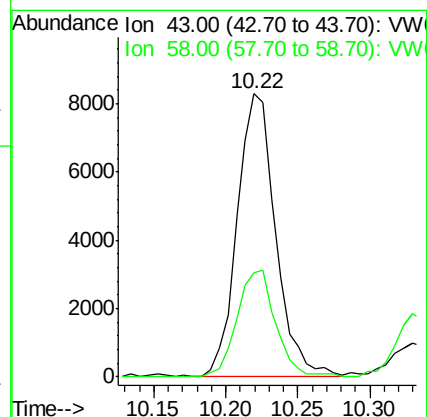
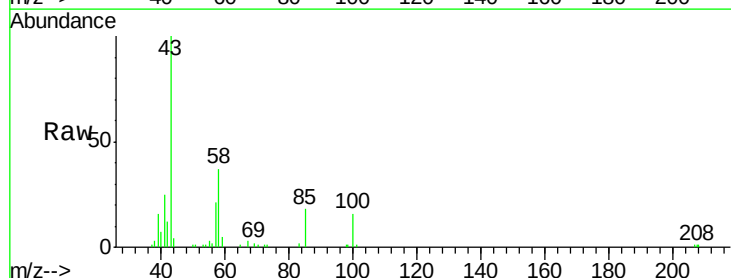
Acq: 24 Jan 2018 13:10

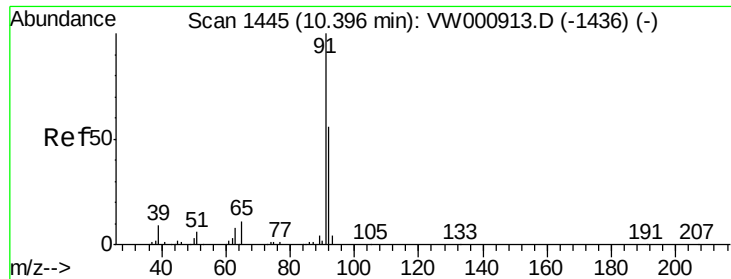
Tgt Ion: 43 Resp: 15418

Ion Ratio Lower Upper

43 100

58 37.9 32.0 48.0





#52

Toluene

Concen: 1.96 ug/l

RT: 10.40 min Scan# 1445

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

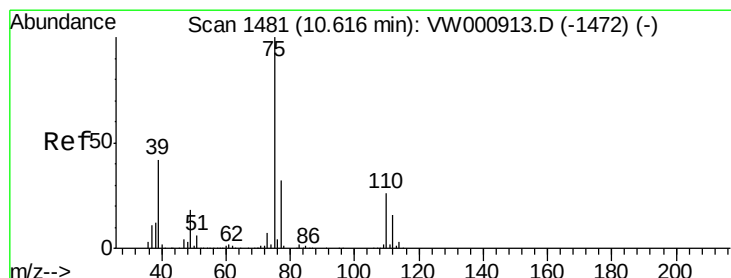
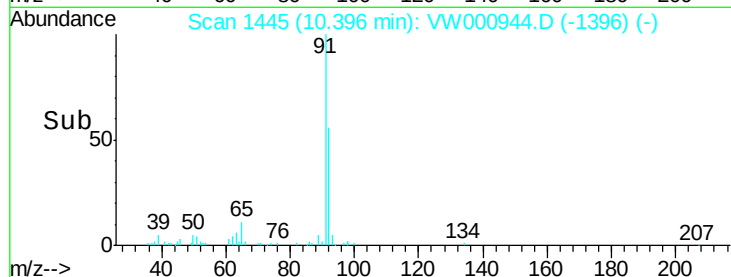
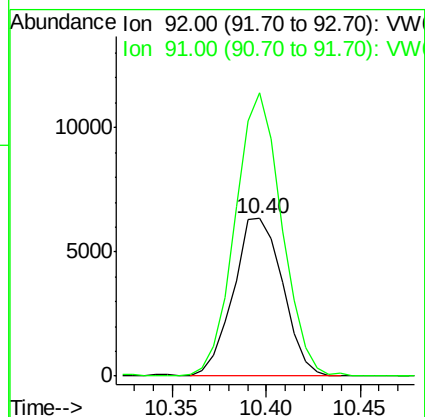
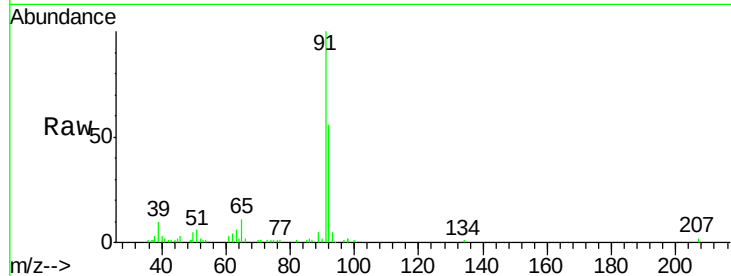
MDL-SOIL-03-QT1-2018

Tgt Ion: 92 Resp: 11541

Ion Ratio Lower Upper

92 100

91 169.3 140.7 211.1



#53

t-1,3-Dichloropropene

Concen: 1.70 ug/l

RT: 10.62 min Scan# 1481

Delta R.T. 0.00 min

Lab File: VW000944.D

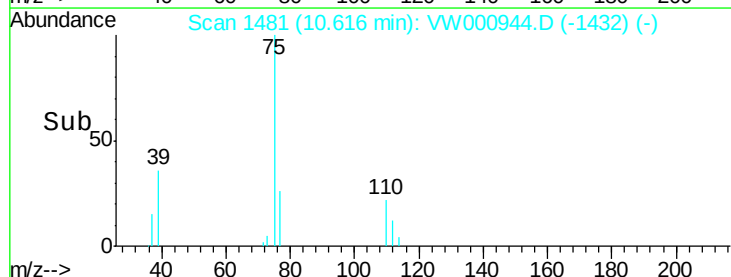
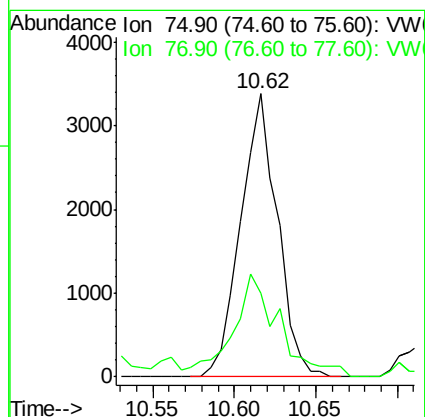
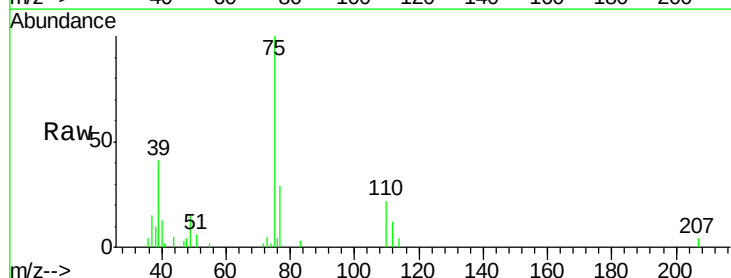
Acq: 24 Jan 2018 13:10

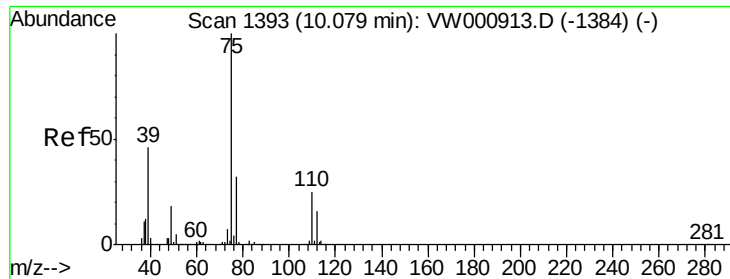
Tgt Ion: 75 Resp: 5299

Ion Ratio Lower Upper

75 100

77 26.2 25.7 38.5





#54

cis-1,3-Dichloropropene

Concen: 1.66 ug/l

RT: 10.08 min Scan# 1393

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2018

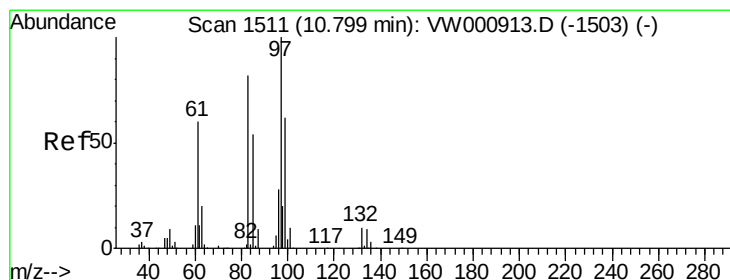
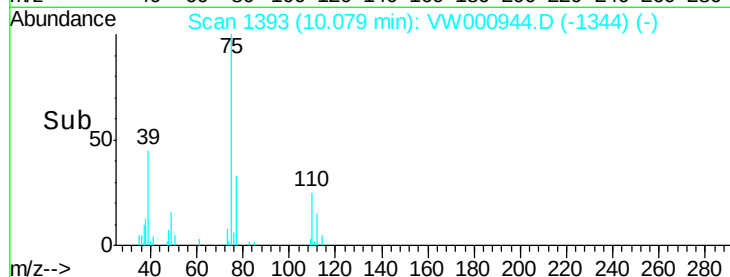
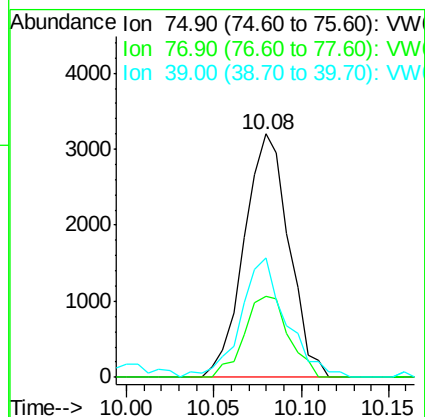
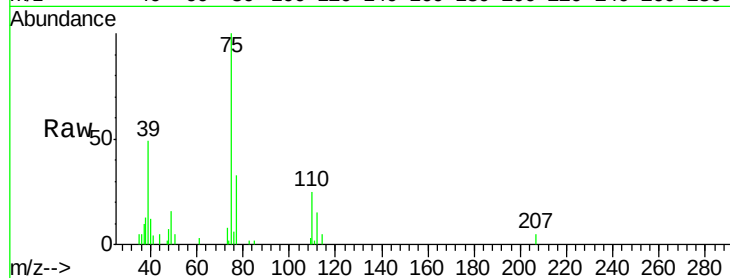
Tgt Ion: 75 Resp: 5699

Ion Ratio Lower Upper

75 100

77 33.1 25.3 37.9

39 46.7 37.0 55.6



#55

1,1,2-Trichloroethane

Concen: 2.00 ug/l

RT: 10.80 min Scan# 1511

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Tgt Ion: 97 Resp: 3891

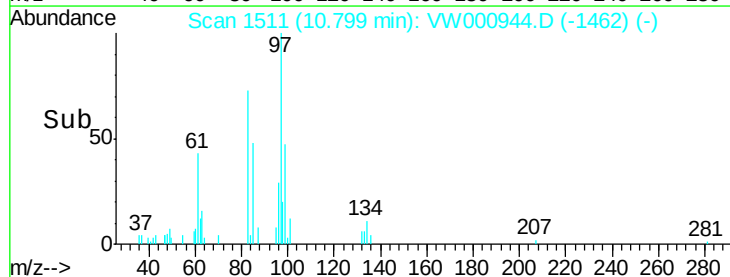
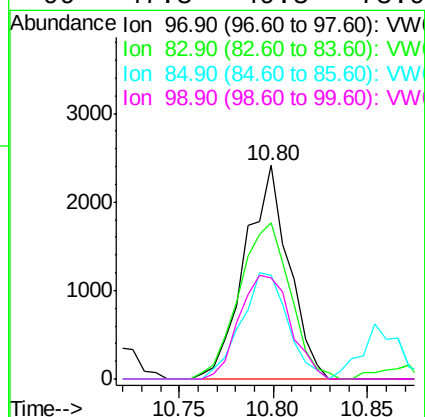
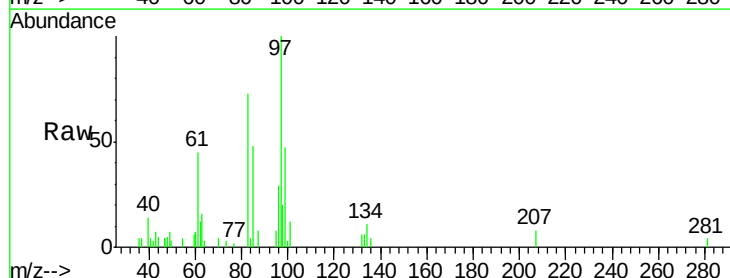
Ion Ratio Lower Upper

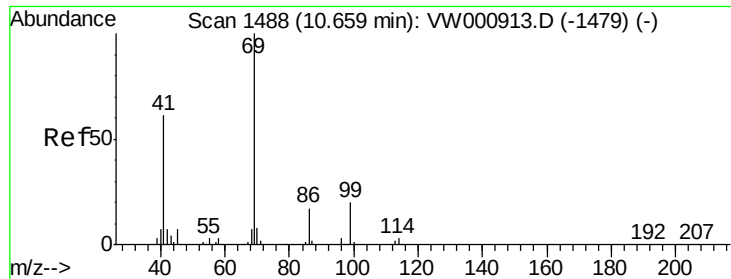
97 100

83 73.2 65.2 97.8

85 48.3 43.1 64.7

99 47.3 49.3 73.9#





#56

Ethyl methacrylate

Concen: 4.57 ug/l

RT: 10.66 min Scan# 1488

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2018

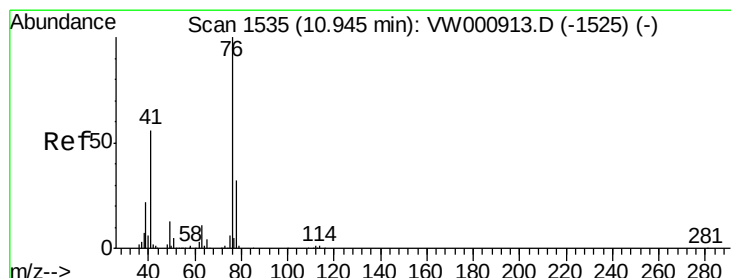
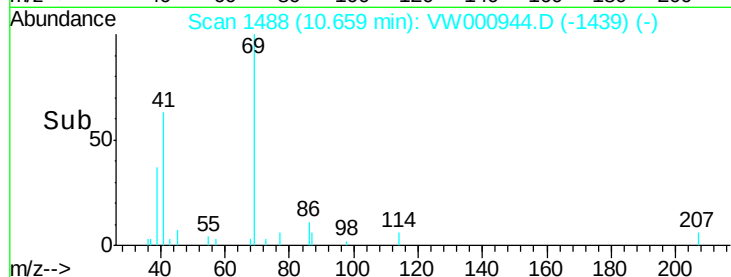
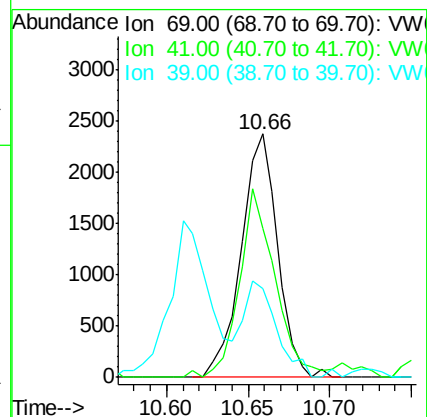
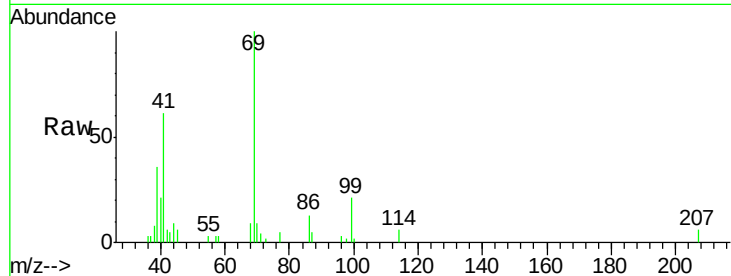
Tgt Ion: 69 Resp: 3695

Ion Ratio Lower Upper

69 100

41 75.7 50.3 75.5#

39 35.9 28.6 42.8



#57

1,3-Dichloropropane

Concen: 1.83 ug/l

RT: 10.94 min Scan# 1534

Delta R.T. -0.01 min

Lab File: VW000944.D

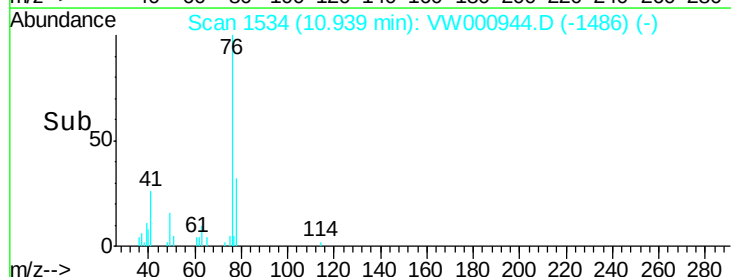
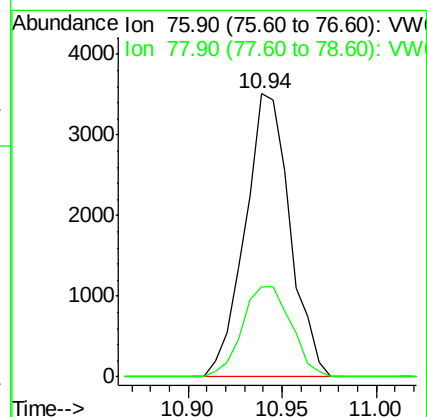
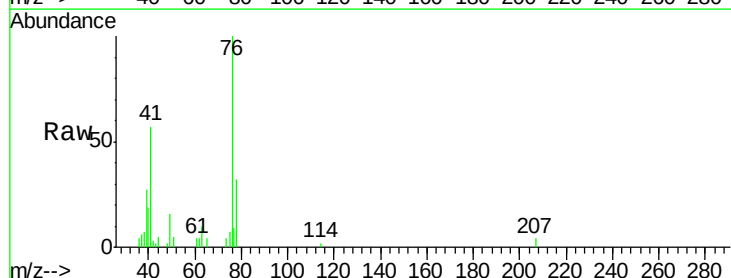
Acq: 24 Jan 2018 13:10

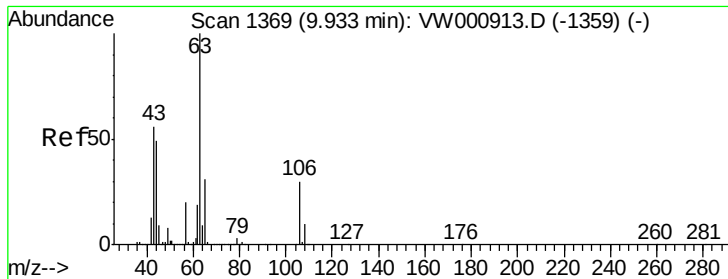
Tgt Ion: 76 Resp: 5824

Ion Ratio Lower Upper

76 100

78 34.6 25.8 38.8

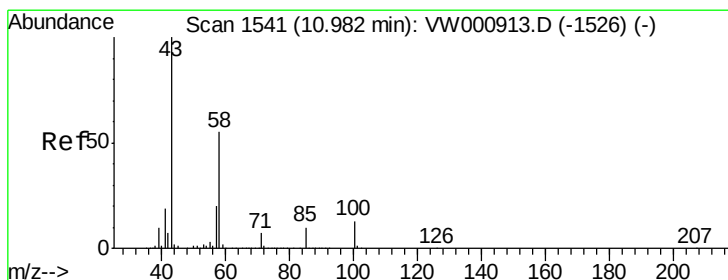
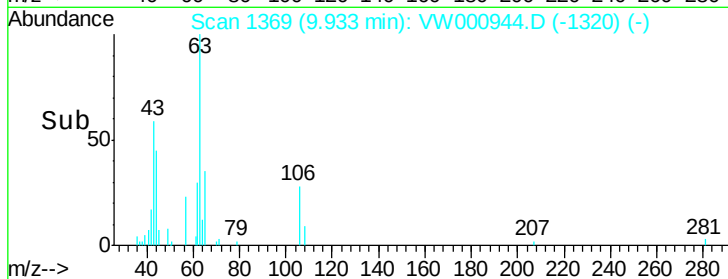
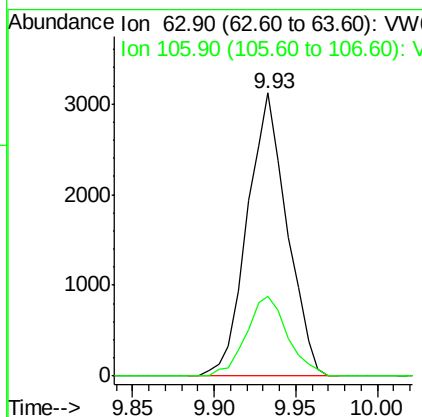
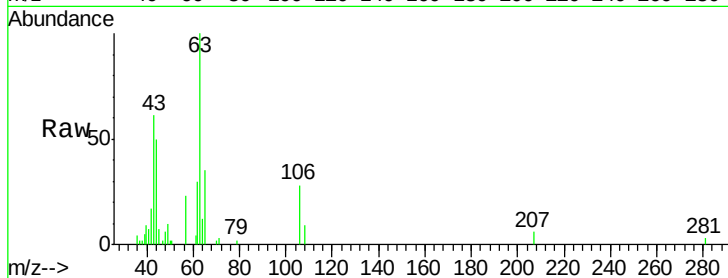




#58
 2-Chloroethyl Vinyl ether
 Concen: 29.04 ug/l
 RT: 9.93 min Scan# 1369
 Delta R.T. 0.00 min
 Lab File: VW000944.D
 Acq: 24 Jan 2018 13:10

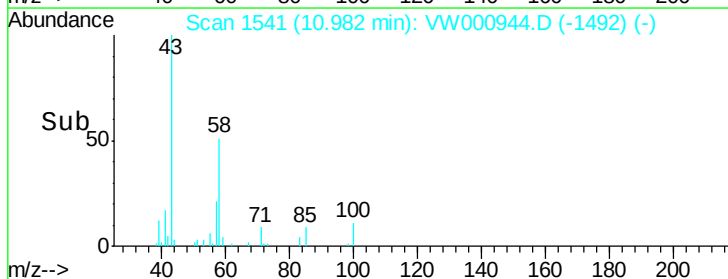
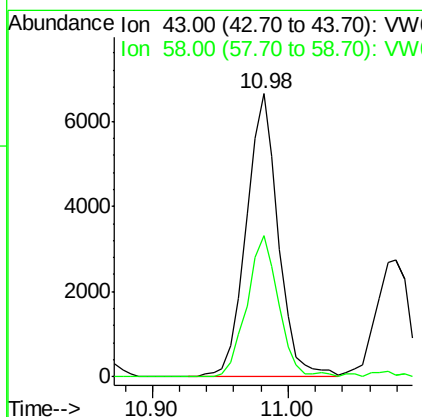
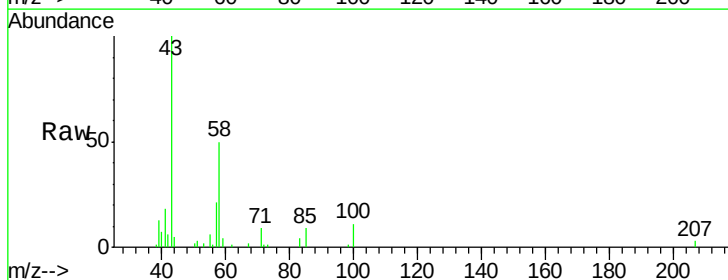
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT1-2018

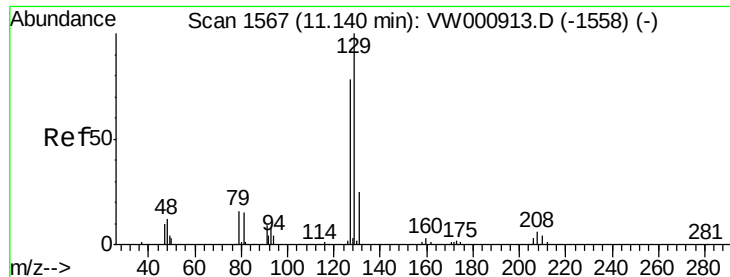
Tgt Ion: 63 Resp: 5271
 Ion Ratio Lower Upper
 63 100
 106 29.4 23.8 35.8



#59
 2-Hexanone
 Concen: 20.87 ug/l
 RT: 10.98 min Scan# 1541
 Delta R.T. 0.00 min
 Lab File: VW000944.D
 Acq: 24 Jan 2018 13:10

Tgt Ion: 43 Resp: 10940
 Ion Ratio Lower Upper
 43 100
 58 48.9 27.4 82.2





#60

Dibromochloromethane

Concen: 1.73 ug/l

RT: 11.13 min Scan# 1566

Delta R.T. -0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

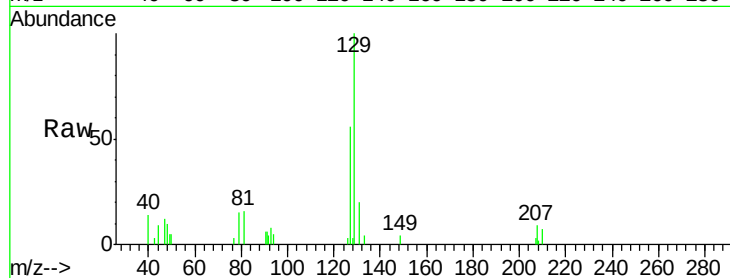
MDL-SOIL-03-QT1-2018

Tgt Ion:129 Resp: 4050

Ion Ratio Lower Upper

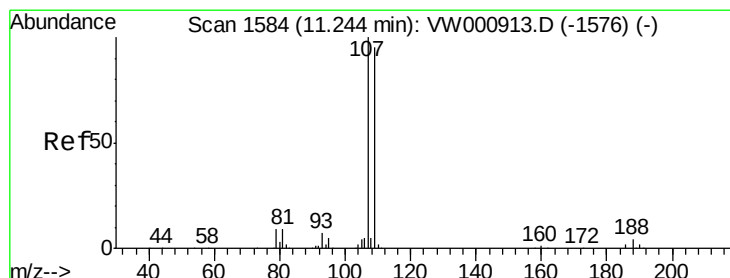
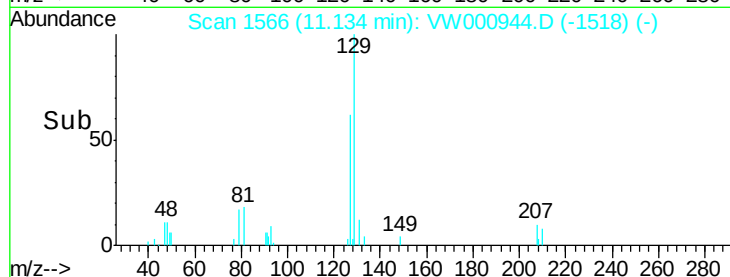
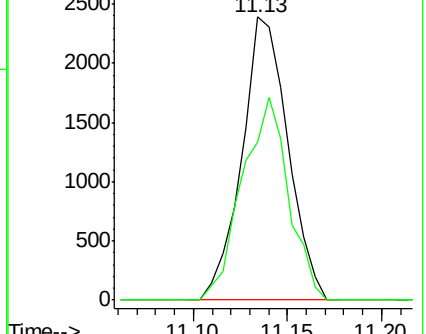
129 100

127 72.0 38.4 115.2



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#61

1,2-Dibromoethane

Concen: 1.76 ug/l

RT: 11.24 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VW000944.D

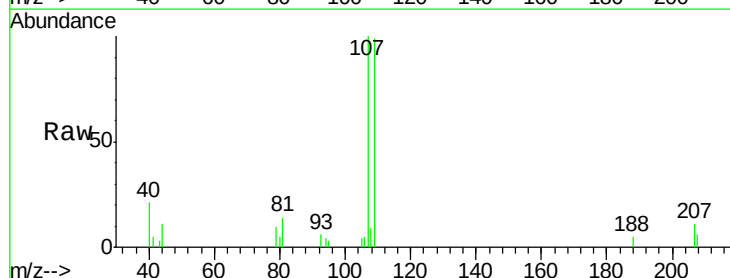
Acq: 24 Jan 2018 13:10

Tgt Ion:107 Resp: 3570

Ion Ratio Lower Upper

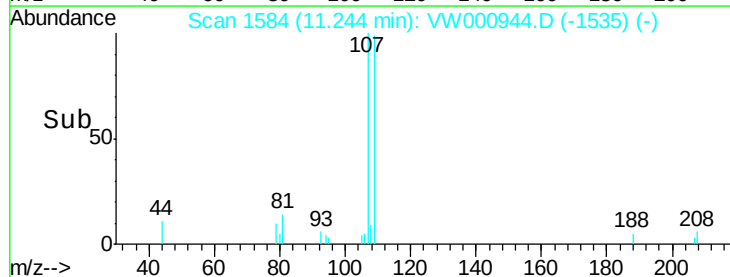
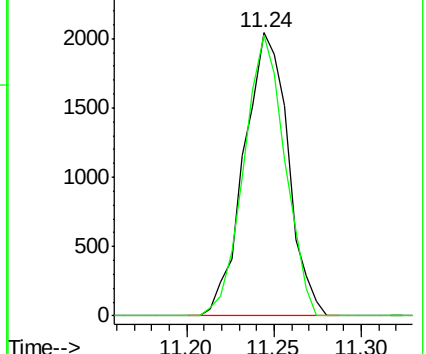
107 100

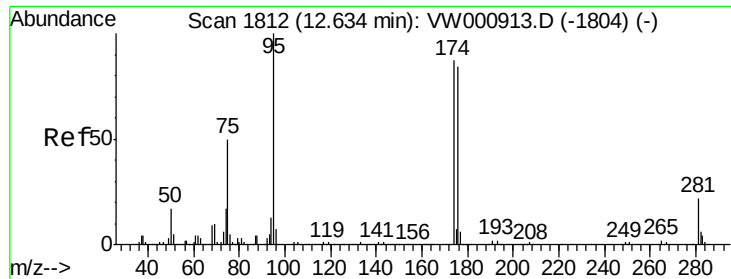
109 92.5 76.0 114.0



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

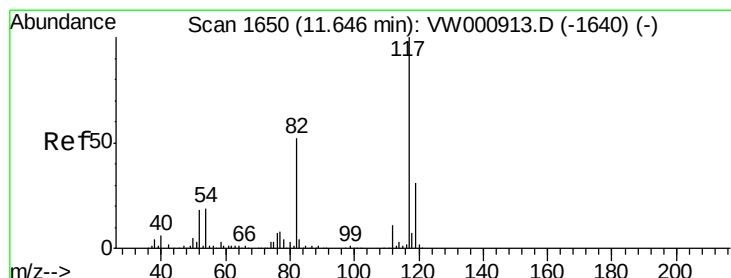
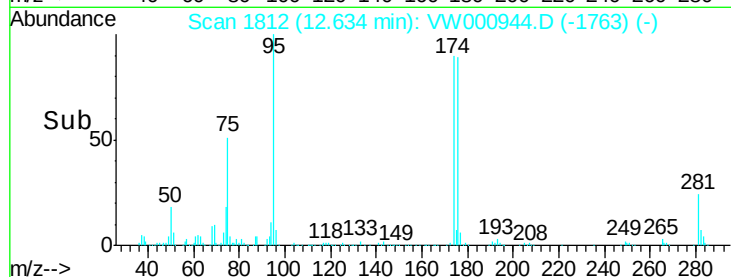
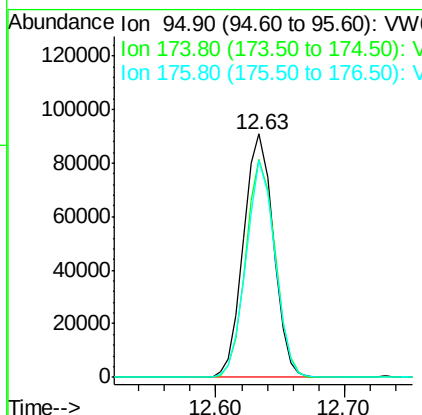
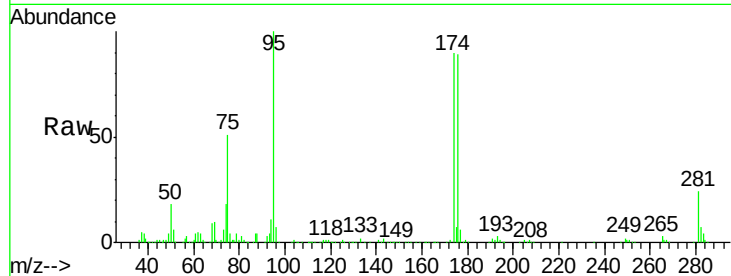




#62
4-Bromofluorobenzene
Concen: 46.05 ug/l
RT: 12.63 min Scan# 1812
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

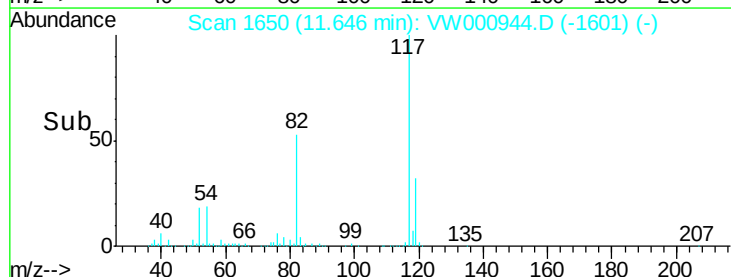
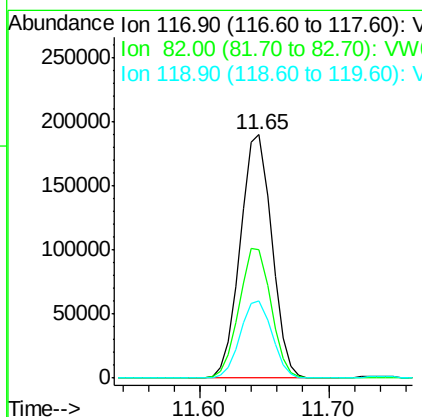
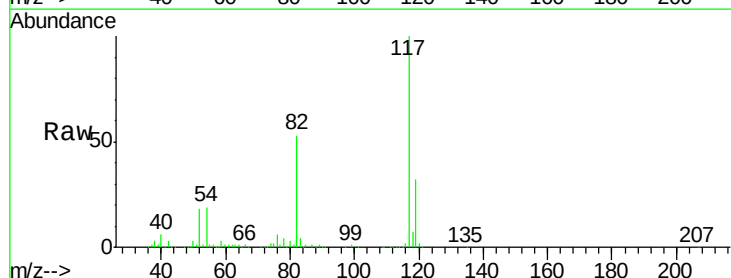
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2018

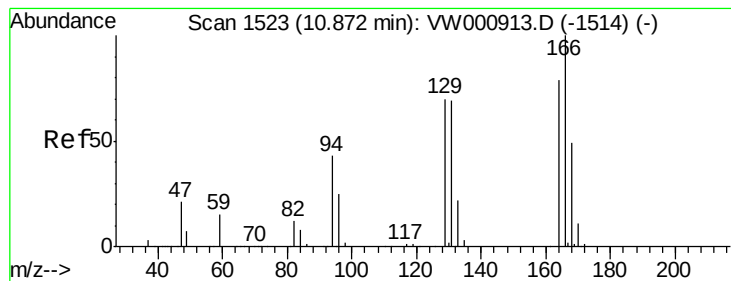
Tgt Ion: 95 Resp: 145779
Ion Ratio Lower Upper
95 100
174 88.0 0.0 176.8
176 85.8 0.0 171.8



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.65 min Scan# 1650
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Tgt Ion: 117 Resp: 322724
Ion Ratio Lower Upper
117 100
82 52.6 41.8 62.6
119 31.8 25.2 37.8





#64

Tetrachloroethene

Concen: 2.23 ug/l

RT: 10.87 min Scan# 1523

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2018

Tgt Ion:164 Resp: 5968

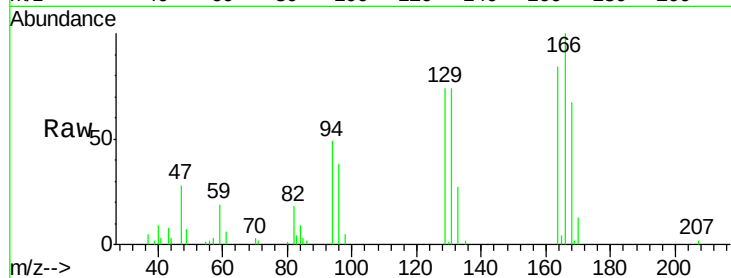
Ion Ratio Lower Upper

164 100

166 119.2 100.9 151.3

129 88.2 70.5 105.7

131 88.1 69.4 104.2

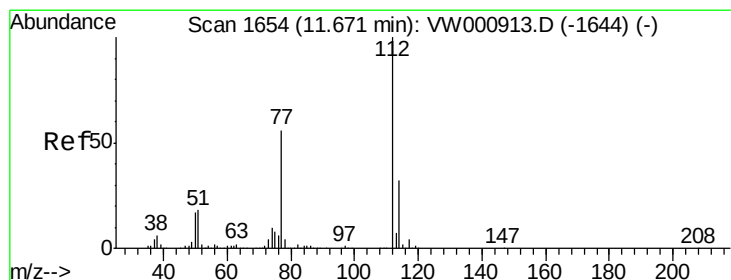
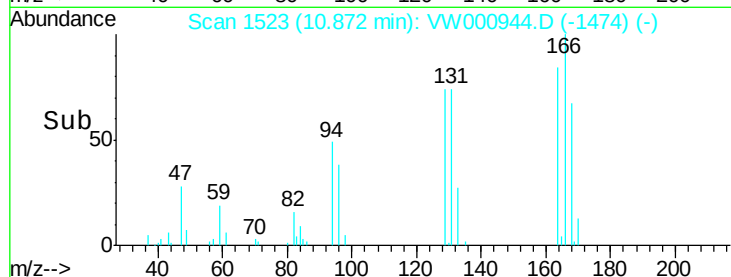
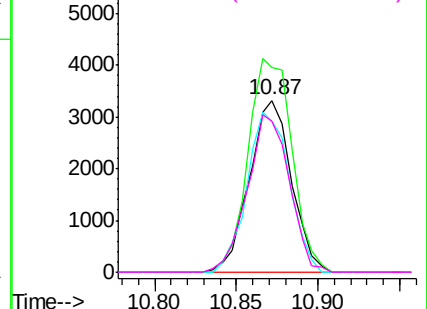


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 1.98 ug/l

RT: 11.67 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VW000944.D

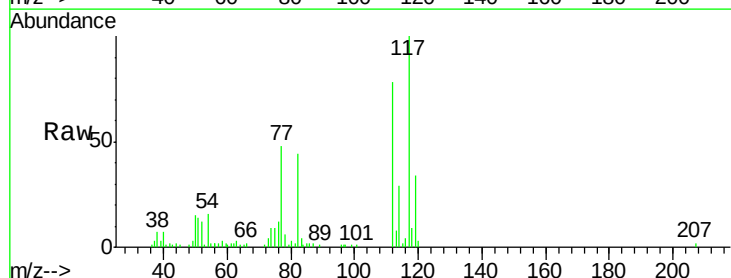
Acq: 24 Jan 2018 13:10

Tgt Ion:112 Resp: 13078

Ion Ratio Lower Upper

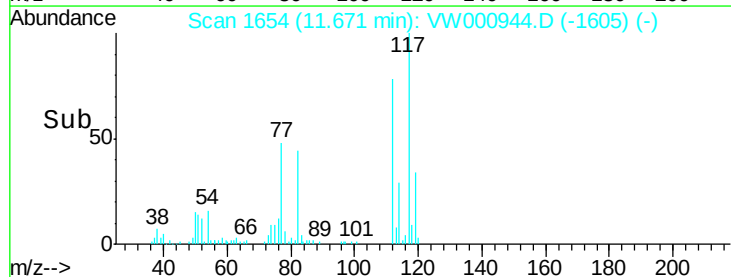
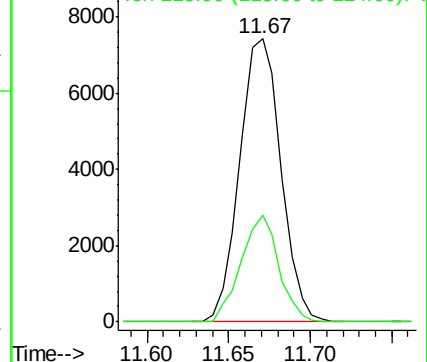
112 100

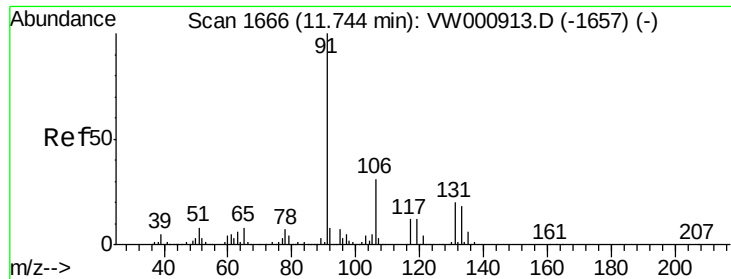
114 37.6 25.8 38.6



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#66

1,1,1,2-Tetrachloroethane

Concen: 1.89 ug/l

RT: 11.74 min Scan# 1666

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2018

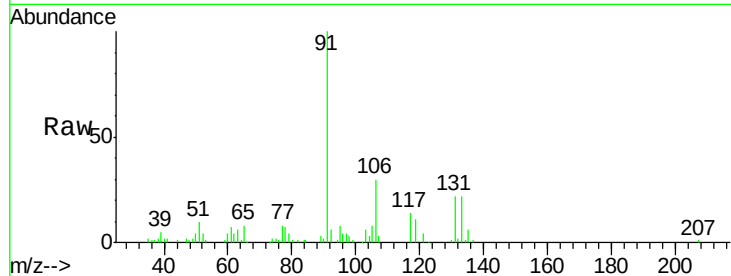
Tgt Ion:131 Resp: 4491

Ion Ratio Lower Upper

131 100

133 101.0 47.3 142.0

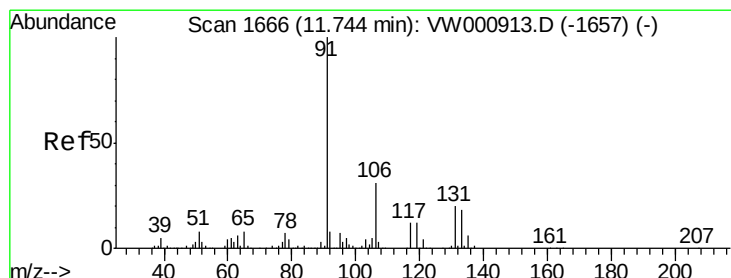
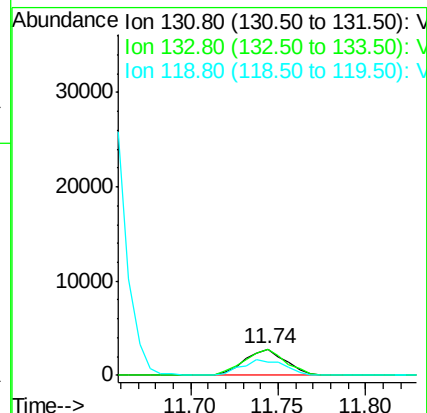
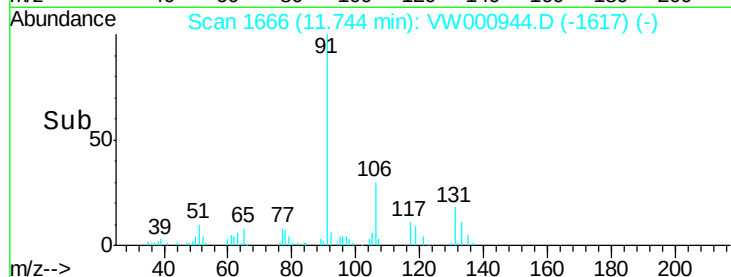
119 0.0 31.6 94.7#



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V



#67

Ethyl Benzene

Concen: 1.82 ug/l

RT: 11.74 min Scan# 1666

Delta R.T. 0.00 min

Lab File: VW000944.D

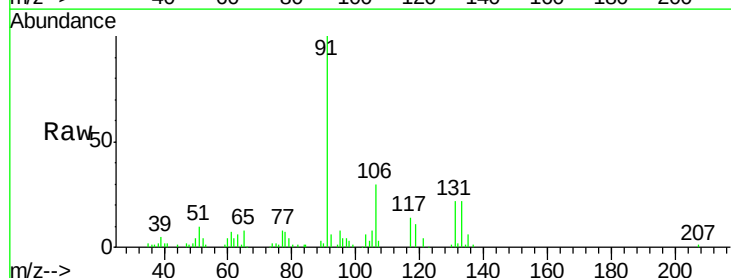
Acq: 24 Jan 2018 13:10

Tgt Ion: 91 Resp: 20403

Ion Ratio Lower Upper

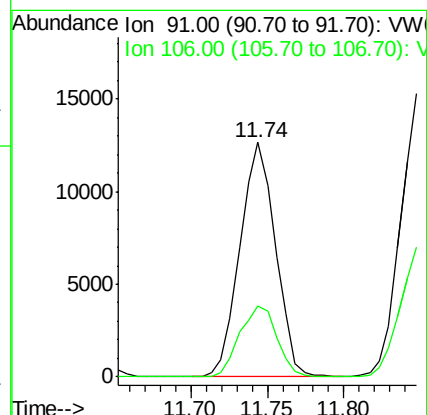
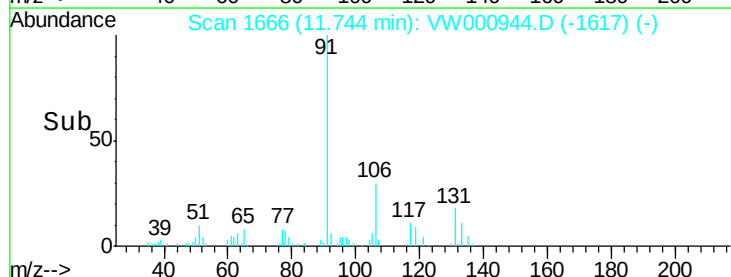
91 100

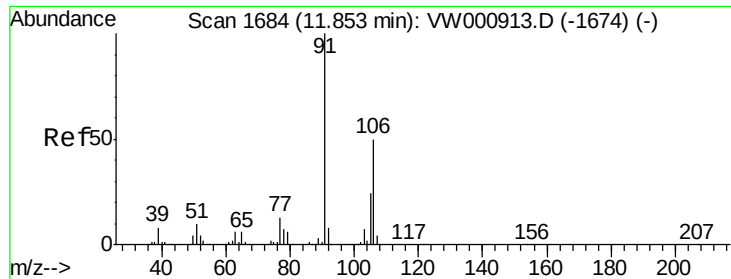
106 30.0 25.1 37.7



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V

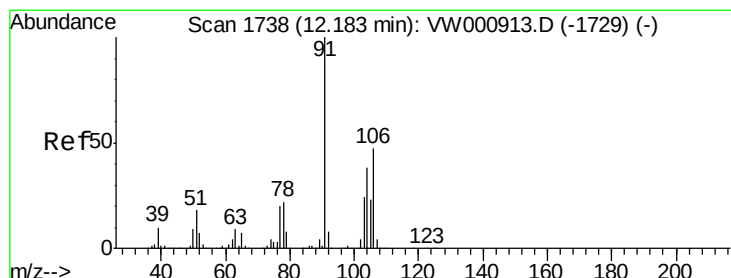
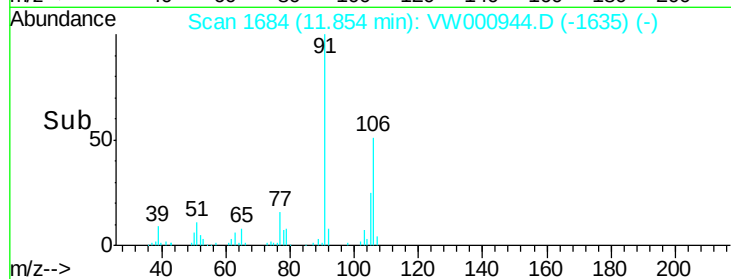
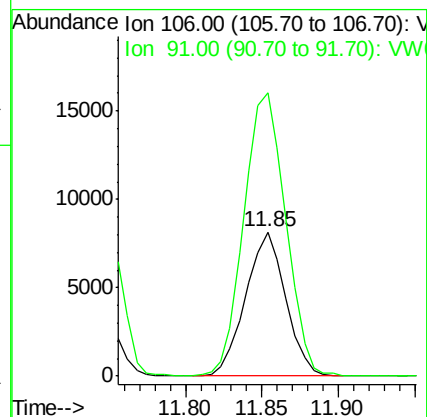
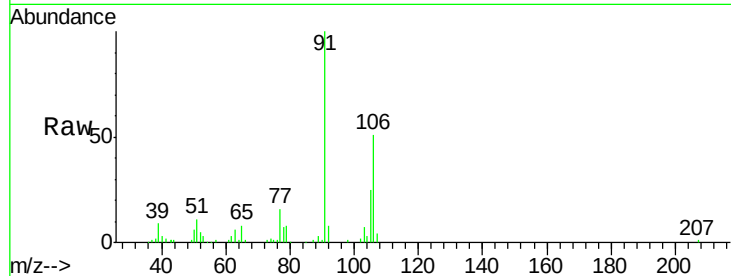




#68
m/p-Xylenes
Concen: 3.41 ug/l
RT: 11.85 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

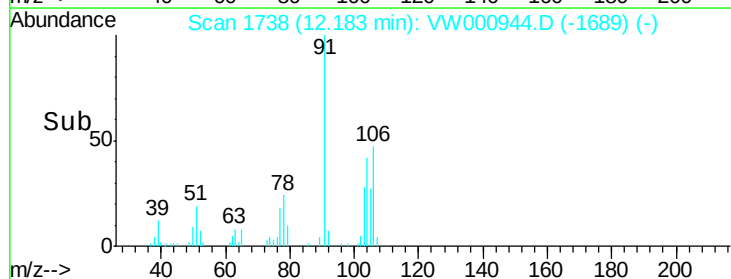
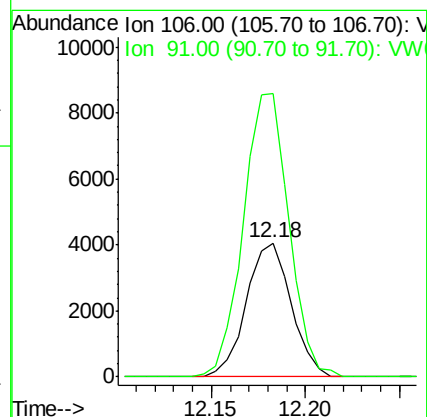
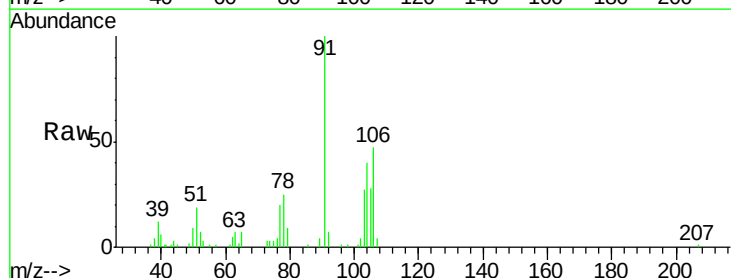
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2018

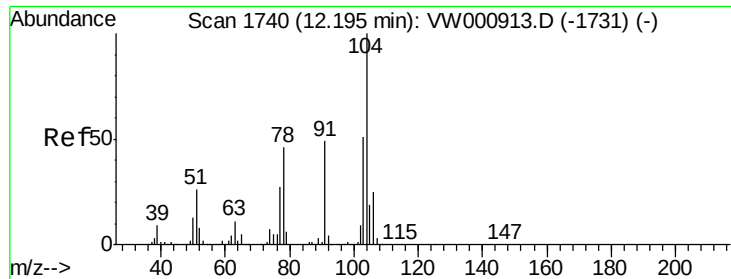
Tgt Ion:106 Resp: 14839
Ion Ratio Lower Upper
106 100
91 205.4 161.9 242.9



#69
o-Xylene
Concen: 1.68 ug/l
RT: 12.18 min Scan# 1738
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Tgt Ion:106 Resp: 6698
Ion Ratio Lower Upper
106 100
91 214.4 106.3 318.8

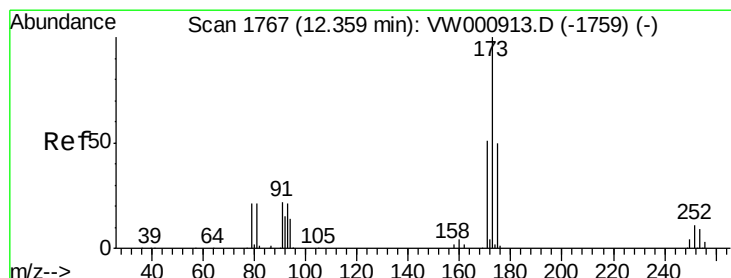
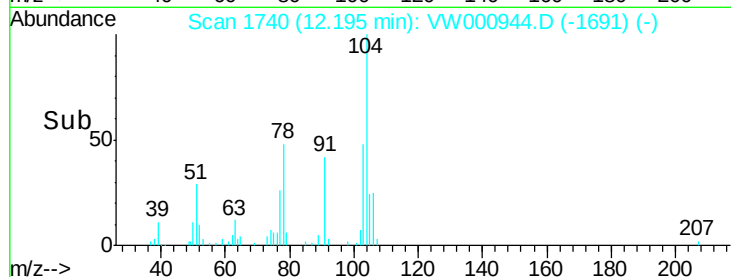
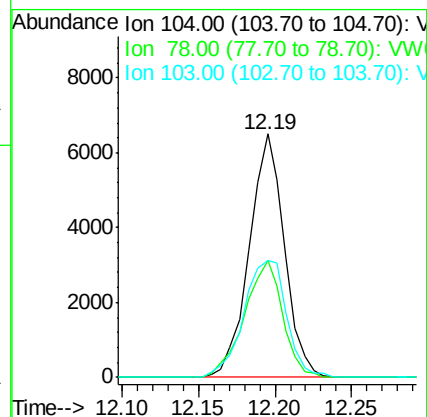
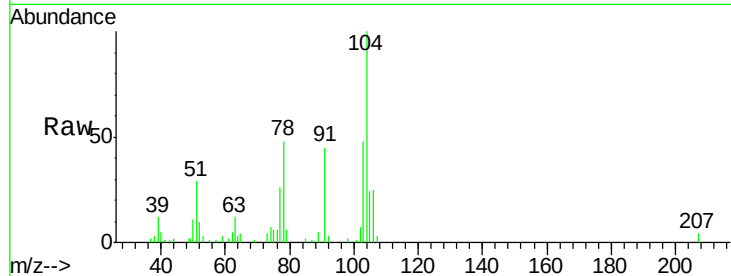




#70
Styrene
Concen: 1.59 ug/l
RT: 12.19 min Scan# 1740
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

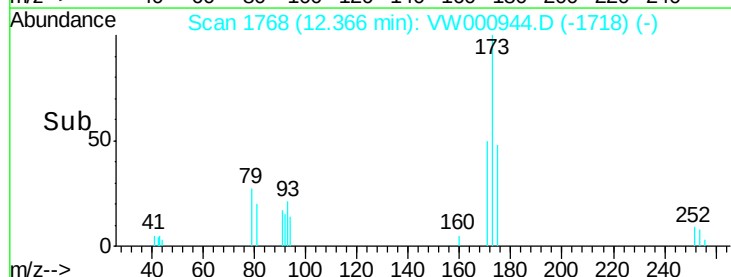
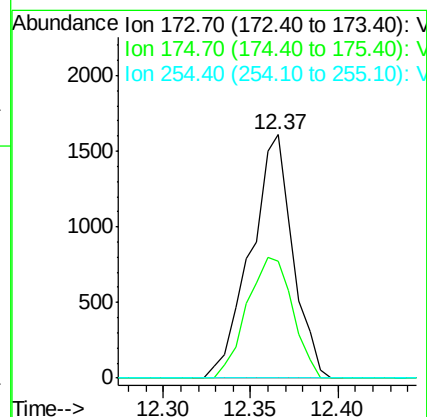
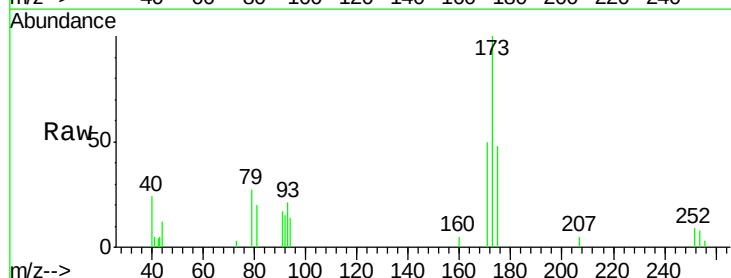
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2018

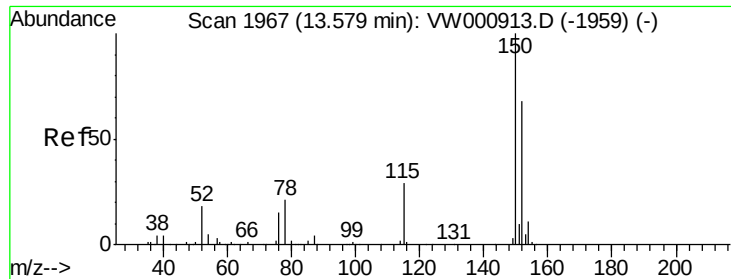
Tgt Ion:104 Resp: 10335
Ion Ratio Lower Upper
104 100
78 52.3 40.1 60.1
103 59.2 44.6 66.8



#71
Bromoform
Concen: 1.68 ug/l
RT: 12.37 min Scan# 1768
Delta R.T. 0.01 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Tgt Ion:173 Resp: 2714
Ion Ratio Lower Upper
173 100
175 53.6 24.7 74.1
254 0.0 0.2 0.2#

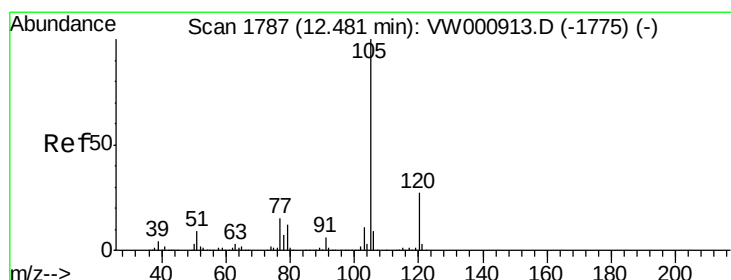
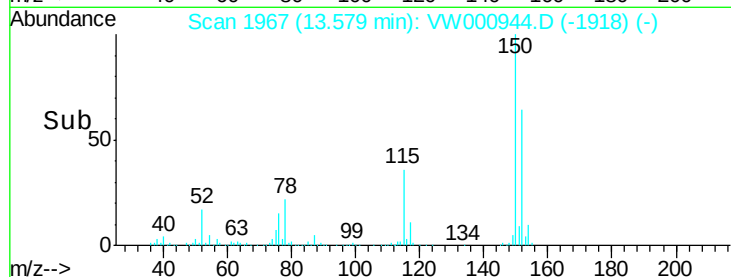
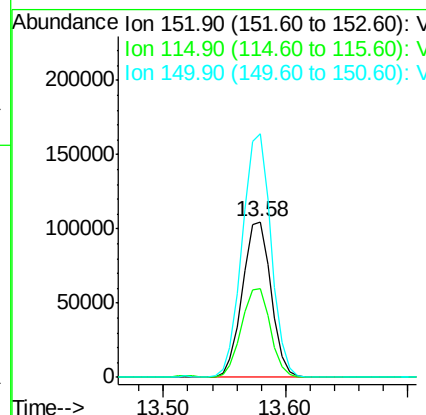
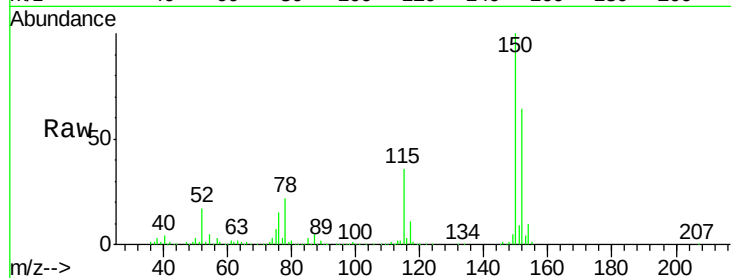




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 13.58 min Scan# 1967
 Delta R.T. 0.00 min
 Lab File: VW000944.D
 Acq: 24 Jan 2018 13:10

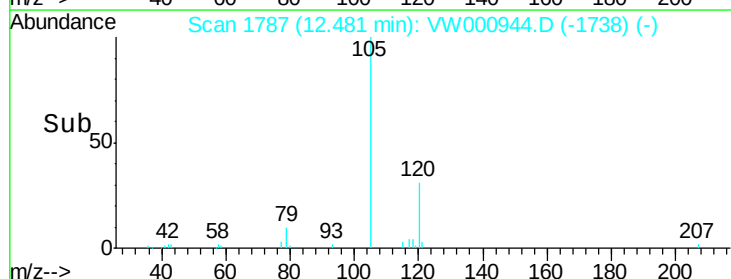
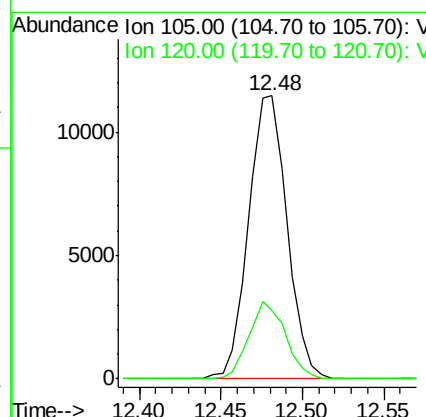
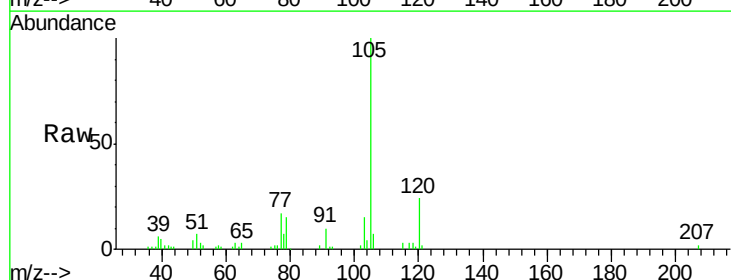
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT1-2018

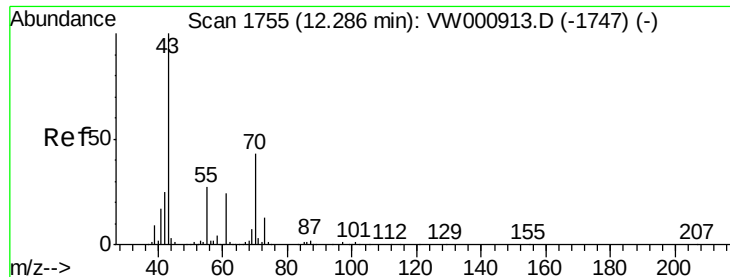
Tgt Ion:152 Resp: 169991
 Ion Ratio Lower Upper
 152 100
 115 57.4 28.5 85.5
 150 157.4 0.0 342.0



#73
 Isopropylbenzene
 Concen: 1.72 ug/l
 RT: 12.48 min Scan# 1787
 Delta R.T. 0.00 min
 Lab File: VW000944.D
 Acq: 24 Jan 2018 13:10

Tgt Ion:105 Resp: 18884
 Ion Ratio Lower Upper
 105 100
 120 25.8 13.3 39.9





#74

N-amyI acetate

Concen: 1.56 ug/l

RT: 12.29 min Scan# 1755

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2018

Tgt Ion: 43 Resp: 4165

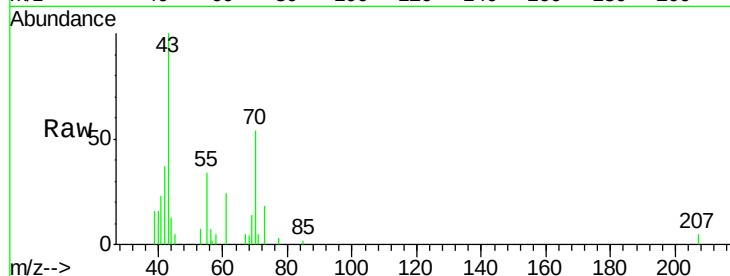
Ion Ratio Lower Upper

43 100

70 43.6 35.8 53.8

55 30.0 21.4 32.2

61 23.9 19.5 29.3

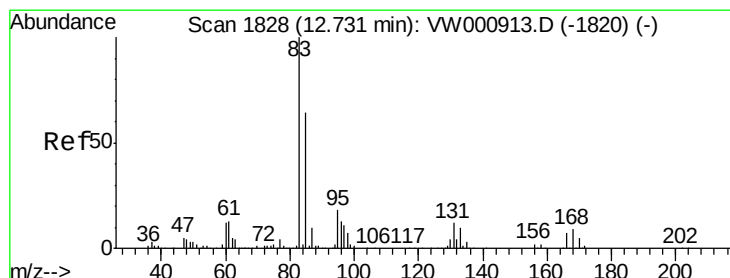
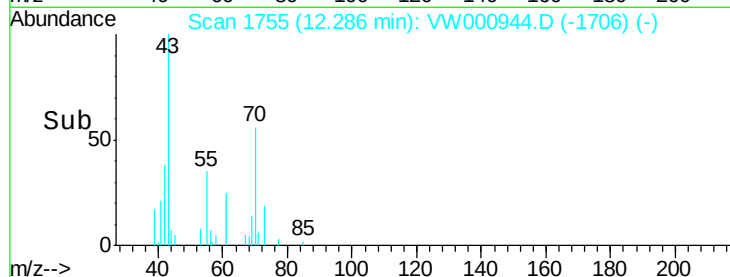
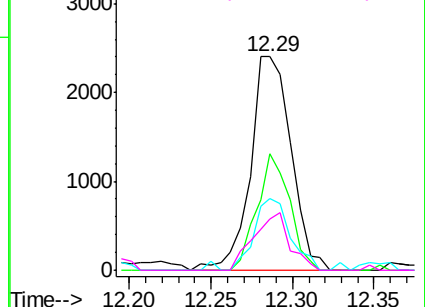


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 1.78 ug/l

RT: 12.73 min Scan# 1827

Delta R.T. -0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

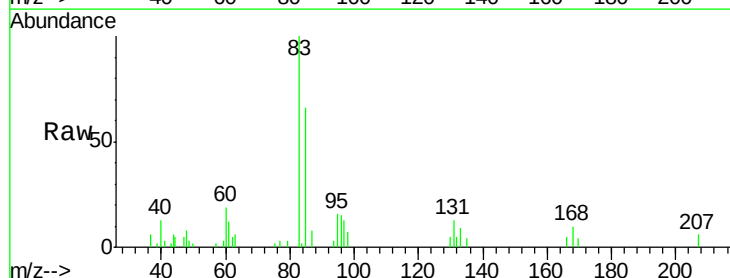
Tgt Ion: 83 Resp: 4181

Ion Ratio Lower Upper

83 100

131 13.4 5.9 17.7

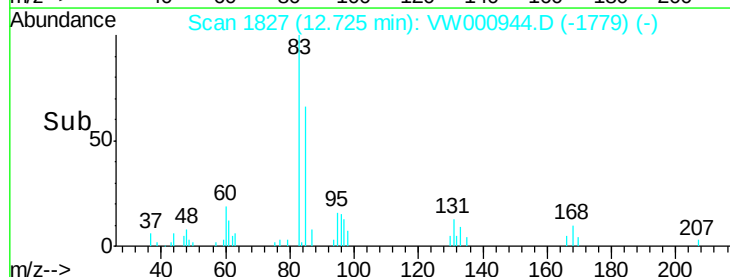
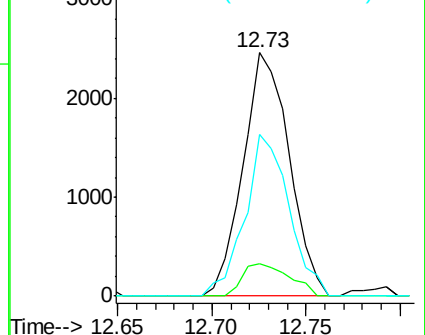
85 63.3 32.6 97.7

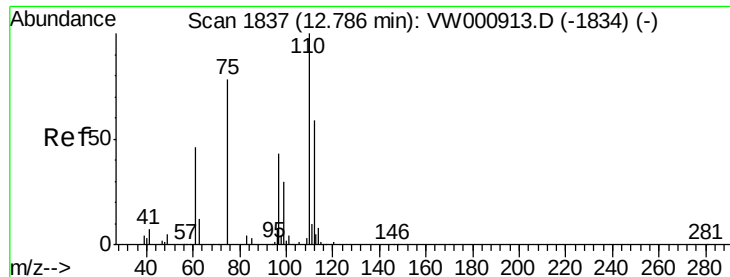


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW





#76

1,2,3-Trichloropropane

Concen: 3.19 ug/l

RT: 12.78 min Scan# 1836

Delta R.T. -0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

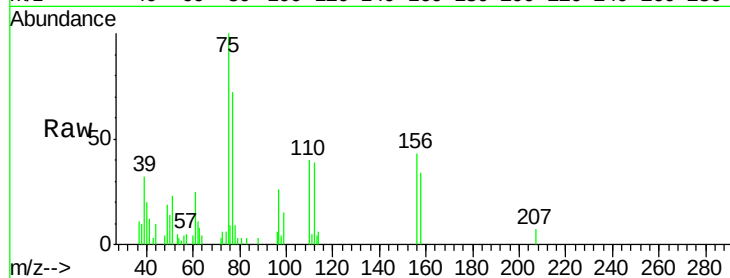
MDL-SOIL-03-QT1-2018

Tgt Ion: 75 Resp: 6275

Ion Ratio Lower Upper

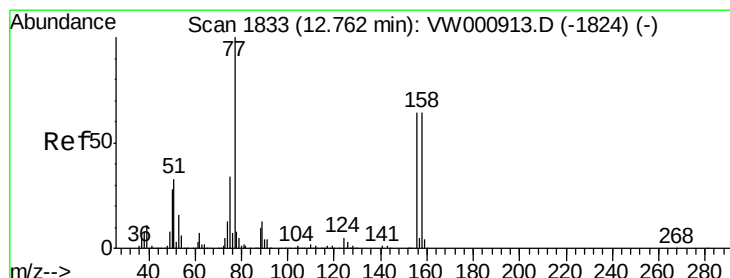
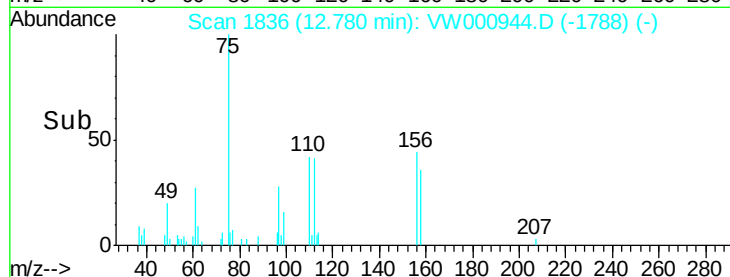
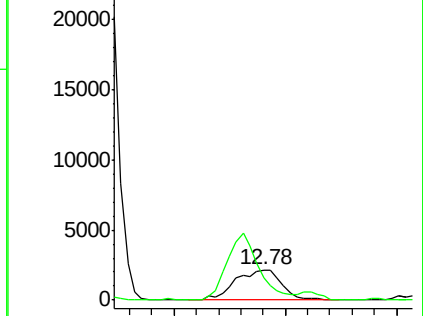
75 100

77 151.9 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: 1.97 ug/l

RT: 12.76 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

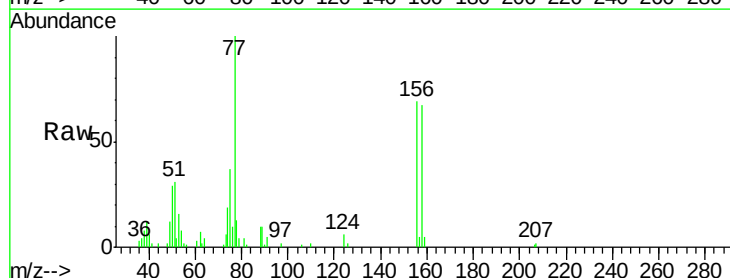
Tgt Ion: 156 Resp: 5510

Ion Ratio Lower Upper

156 100

77 173.0 89.0 267.1

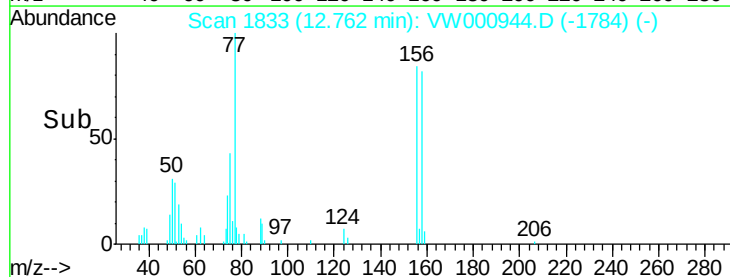
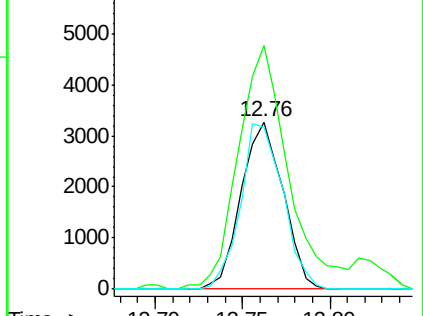
158 99.7 48.9 146.8

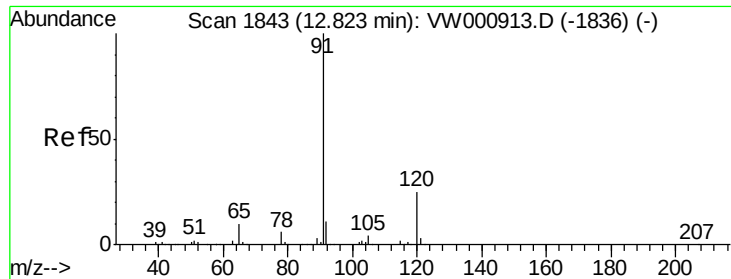


Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V





#78

n-propylbenzene

Concen: 1.88 ug/l

RT: 12.82 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

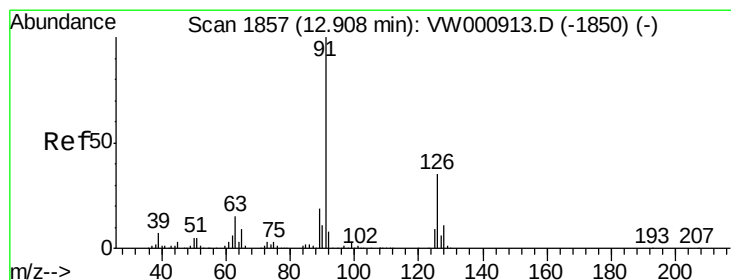
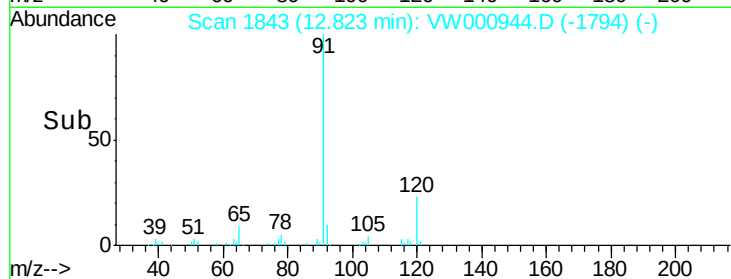
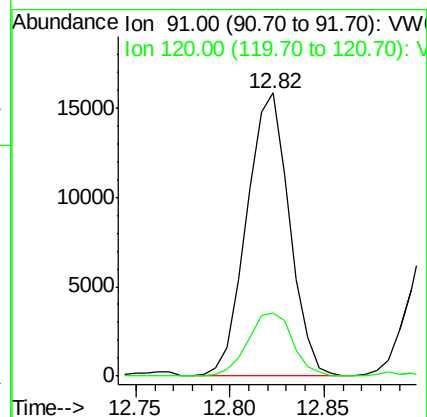
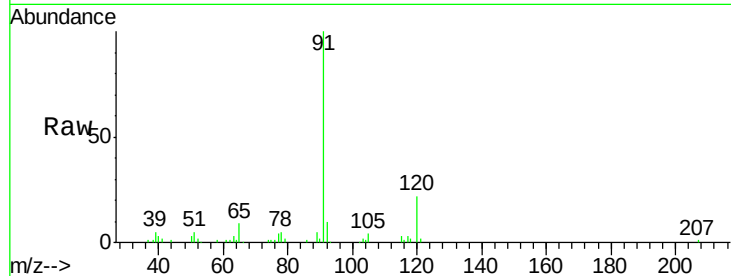
MDL-SOIL-03-QT1-2018

Tgt Ion: 91 Resp: 24917

Ion Ratio Lower Upper

91 100

120 23.4 12.0 36.1



#79

2-Chlorotoluene

Concen: 1.90 ug/l

RT: 12.91 min Scan# 1857

Delta R.T. 0.00 min

Lab File: VW000944.D

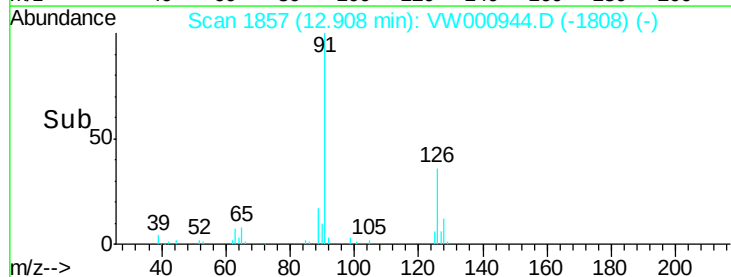
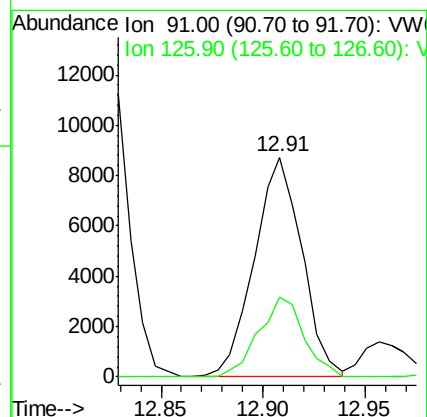
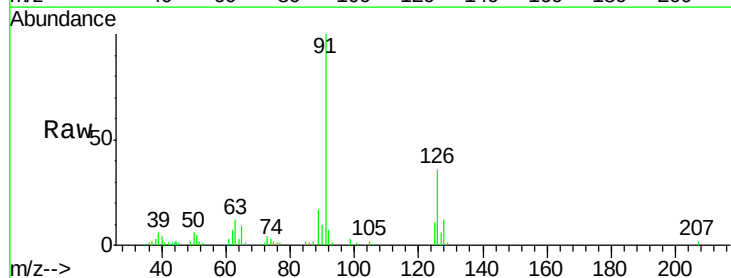
Acq: 24 Jan 2018 13:10

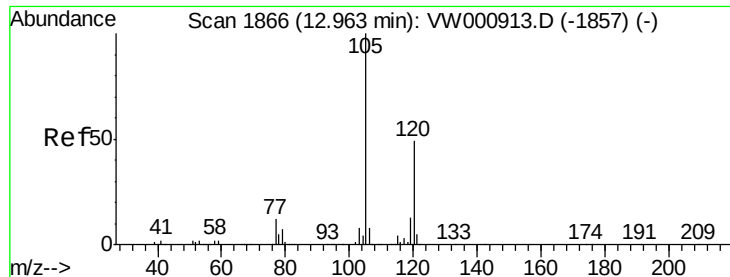
Tgt Ion: 91 Resp: 14238

Ion Ratio Lower Upper

91 100

126 34.4 17.6 52.8





#80

1,3,5-Trimethylbenzene

Concen: 1.73 ug/l

RT: 12.96 min Scan# 1865

Delta R.T. -0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

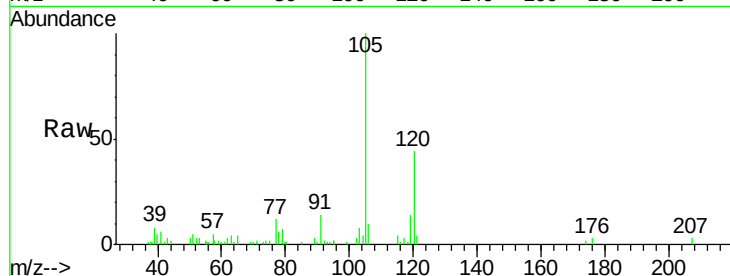
MDL-SOIL-03-QT1-2018

Tgt Ion:105 Resp: 16157

Ion Ratio Lower Upper

105 100

120 47.2 24.3 72.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12000

10000

8000

6000

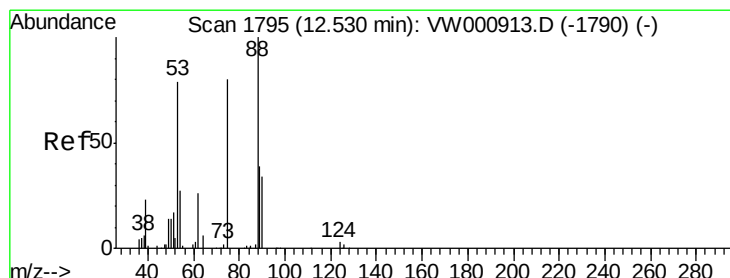
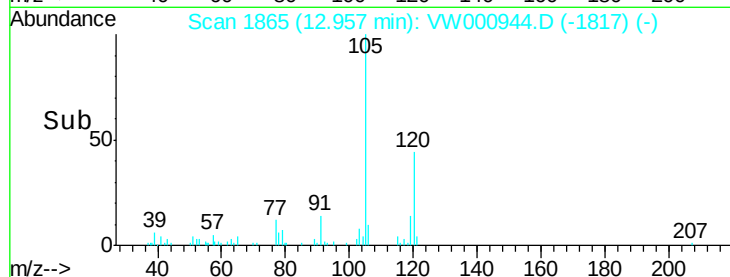
4000

2000

0

12.90 12.95 13.00

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 90.14 ug/l

RT: 12.63 min Scan# 1812

Delta R.T. 0.10 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

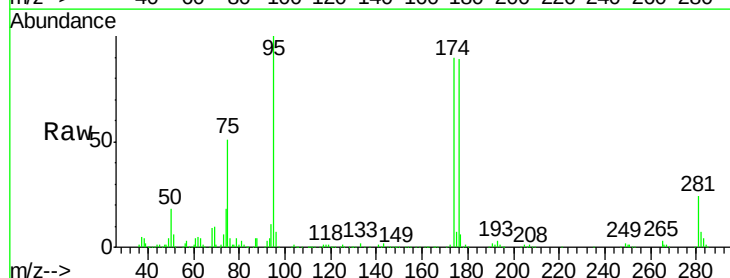
Tgt Ion: 75 Resp: 73815

Ion Ratio Lower Upper

75 100

53 0.0 77.5 116.3#

89 0.2 38.2 57.4#



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

60000

50000

40000

30000

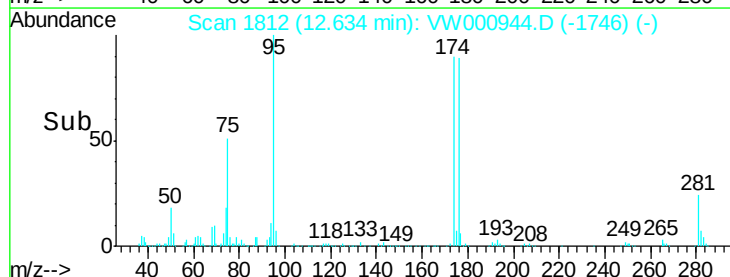
20000

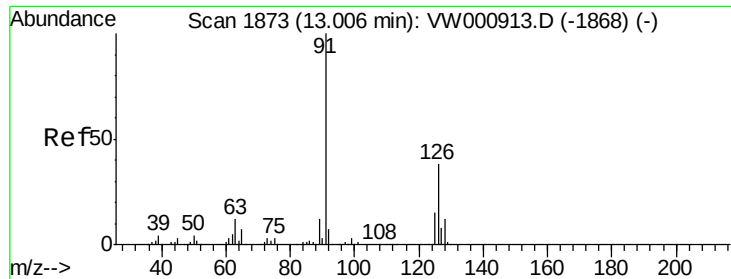
10000

0

12.55 12.60 12.65 12.70

Time-->





#82

4-Chlorotoluene

Concen: 1.91 ug/l

RT: 13.01 min Scan# 1873

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

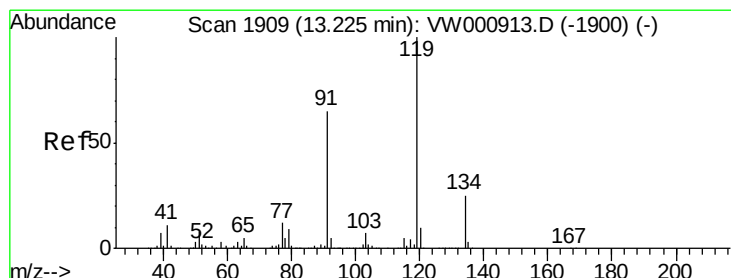
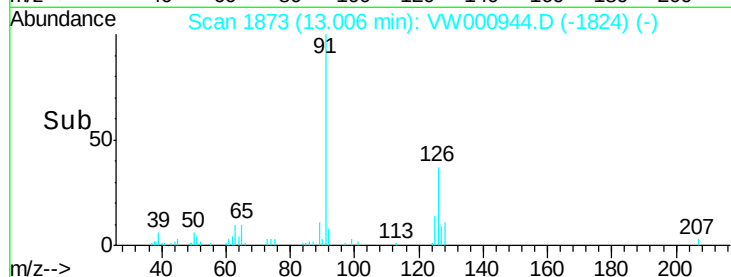
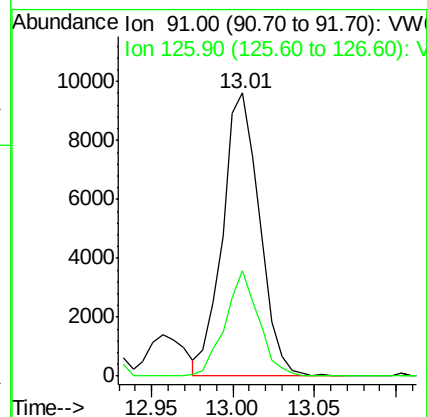
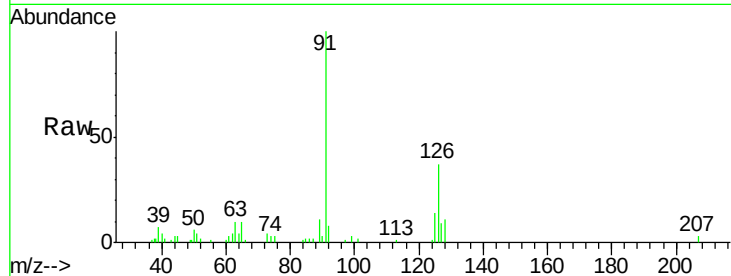
MDL-SOIL-03-QT1-2018

Tgt Ion: 91 Resp: 15145

Ion Ratio Lower Upper

91 100

126 34.0 17.6 52.9



#83

tert-Butylbenzene

Concen: 1.73 ug/l

RT: 13.23 min Scan# 1909

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

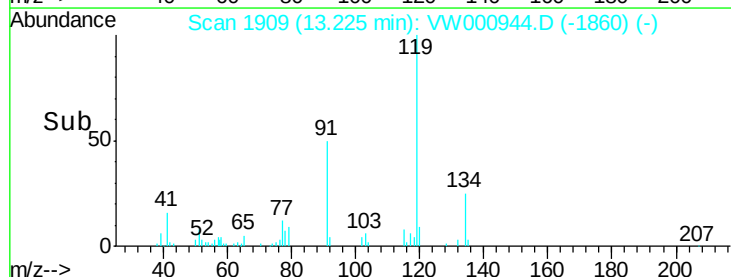
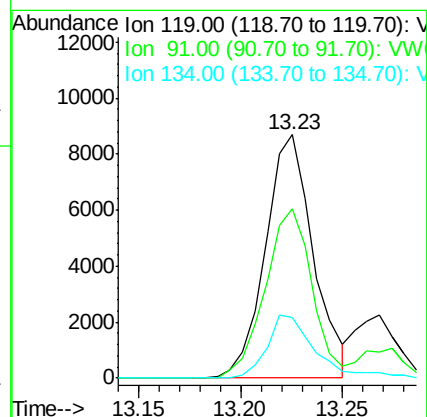
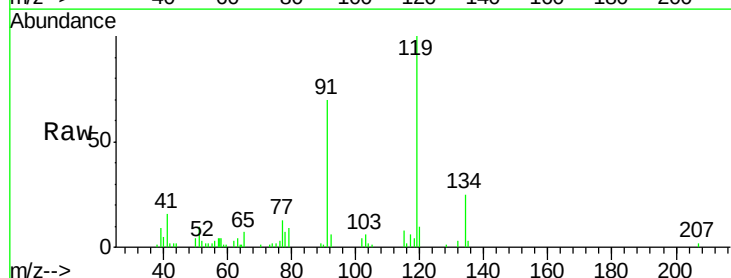
Tgt Ion: 119 Resp: 14186

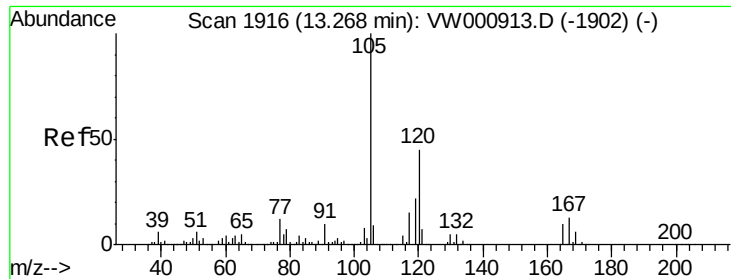
Ion Ratio Lower Upper

119 100

91 67.9 32.4 97.0

134 26.4 13.1 39.3

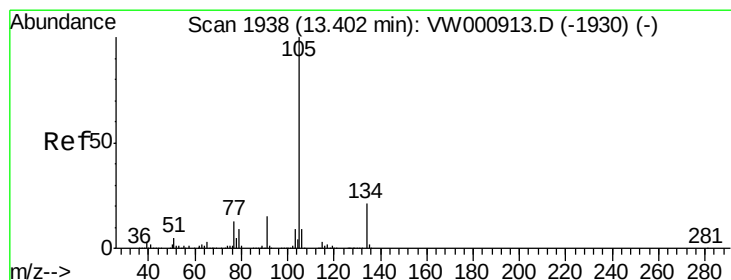
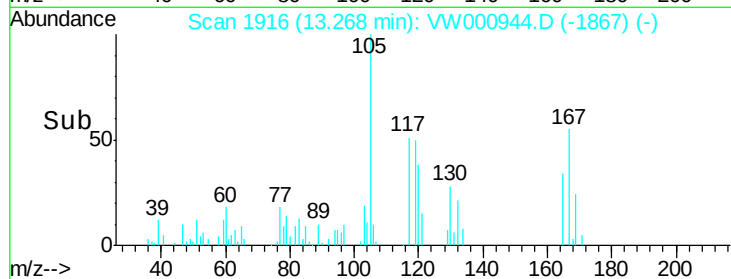
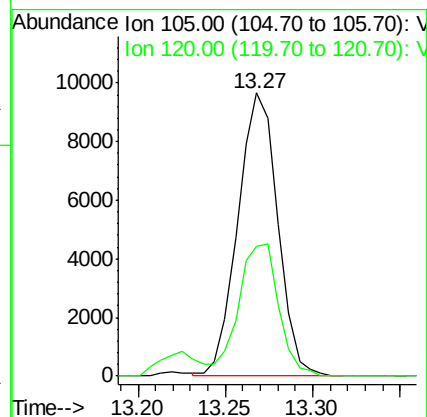
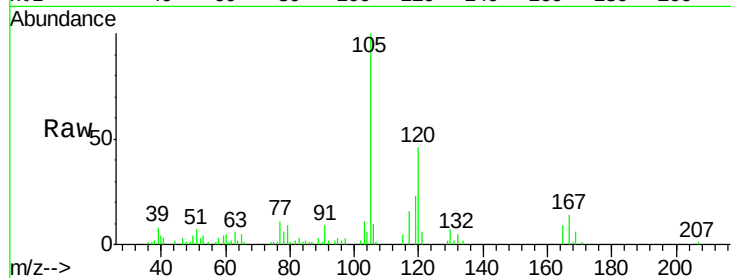




#84
 1,2,4-Trimethylbenzene
 Concen: 1.62 ug/l
 RT: 13.27 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VW000944.D
 Acq: 24 Jan 2018 13:10

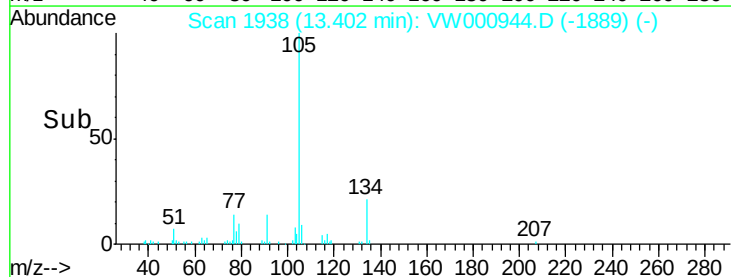
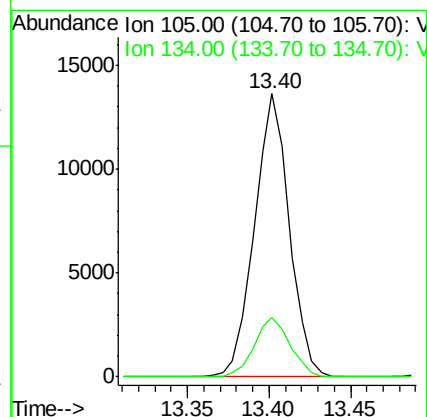
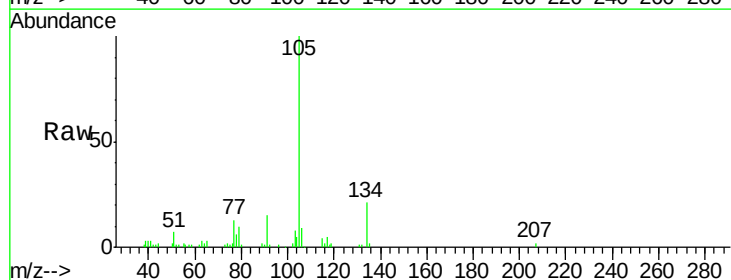
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT1-2018

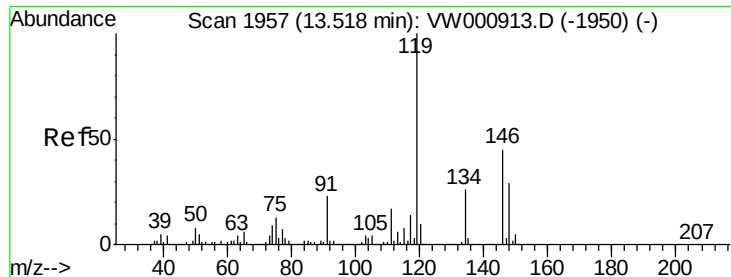
Tgt Ion:105 Resp: 15305
 Ion Ratio Lower Upper
 105 100
 120 47.5 22.4 67.0



#85
 sec-Butylbenzene
 Concen: 1.72 ug/l
 RT: 13.40 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VW000944.D
 Acq: 24 Jan 2018 13:10

Tgt Ion:105 Resp: 20265
 Ion Ratio Lower Upper
 105 100
 134 21.5 10.3 30.9

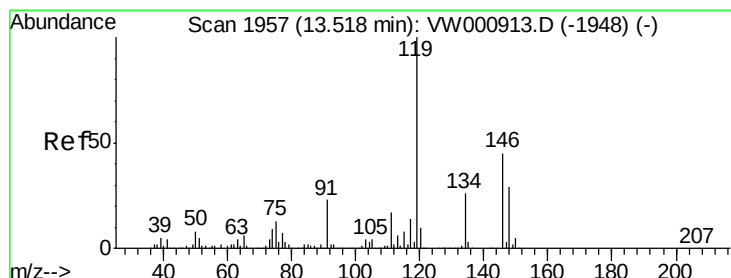
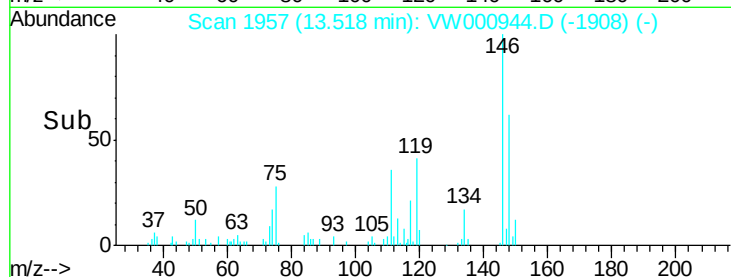
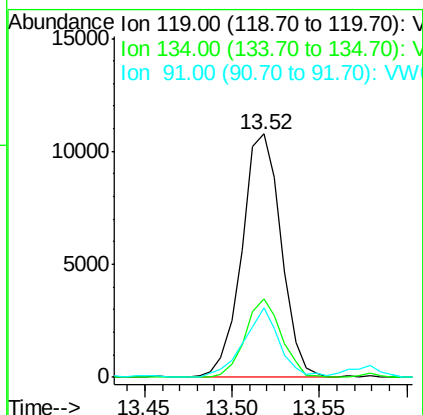
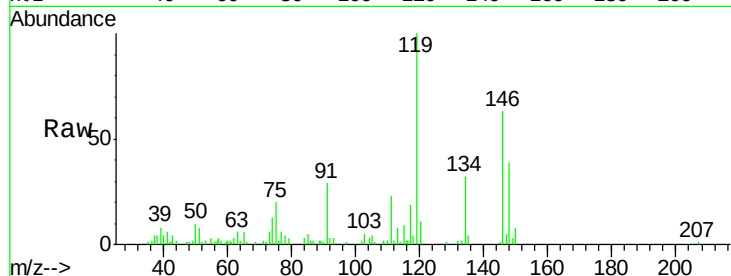




#86
p-Isopropyltoluene
Concen: 1.60 ug/l
RT: 13.52 min Scan# 1957
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

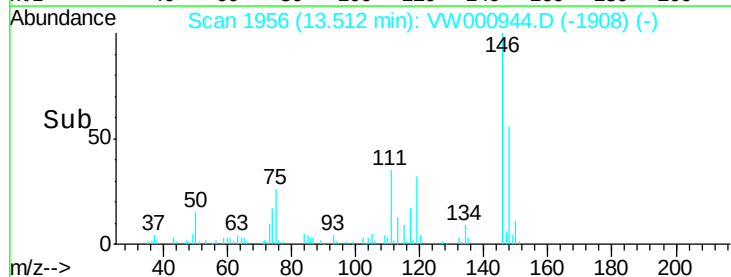
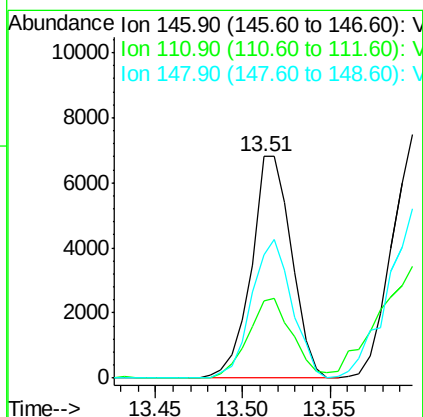
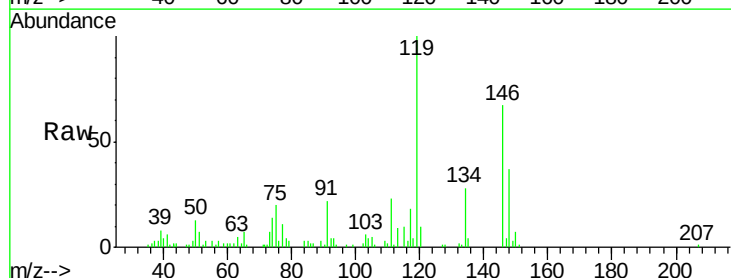
Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2018

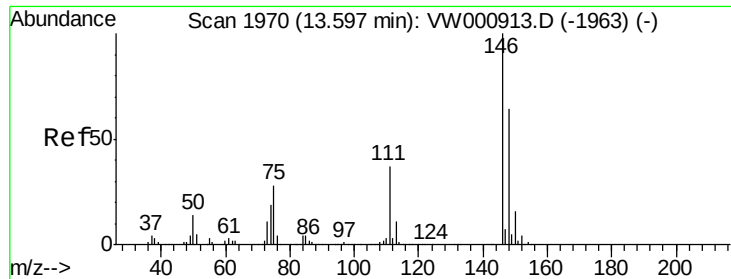
Tgt Ion:119 Resp: 16782
Ion Ratio Lower Upper
119 100
134 29.4 13.2 39.6
91 26.4 11.7 35.0



#87
1,3-Dichlorobenzene
Concen: 1.98 ug/l
RT: 13.51 min Scan# 1956
Delta R.T. -0.01 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Tgt Ion:146 Resp: 10980
Ion Ratio Lower Upper
146 100
111 39.2 19.7 59.0
148 62.7 32.4 97.0





#88

1,4-Dichlorobenzene

Concen: 2.03 ug/l

RT: 13.60 min Scan# 1970

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2018

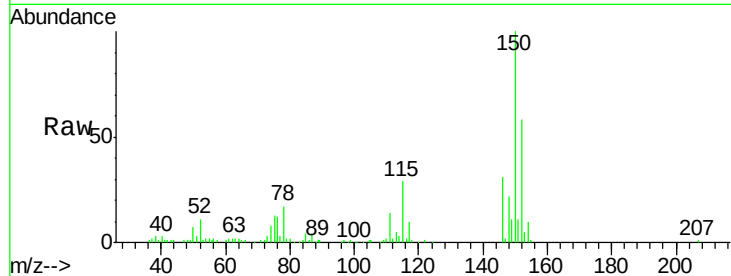
Tgt Ion:146 Resp: 11277

Ion Ratio Lower Upper

146 100

111 56.9 19.0 57.0

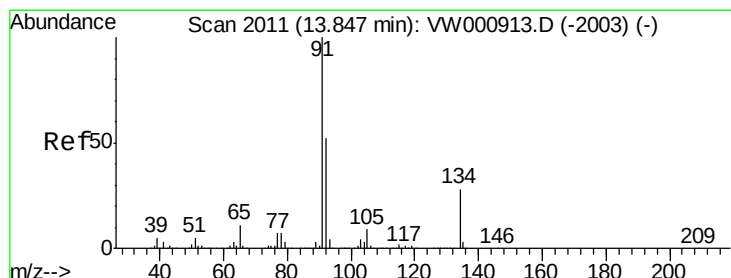
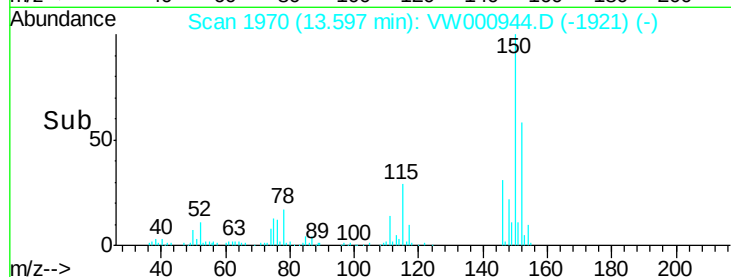
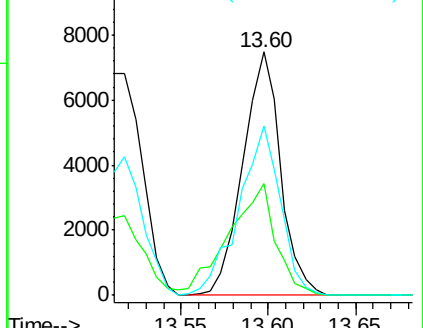
148 76.8 32.4 97.2



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



#89

n-Butylbenzene

Concen: 1.89 ug/l

RT: 13.84 min Scan# 2010

Delta R.T. -0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

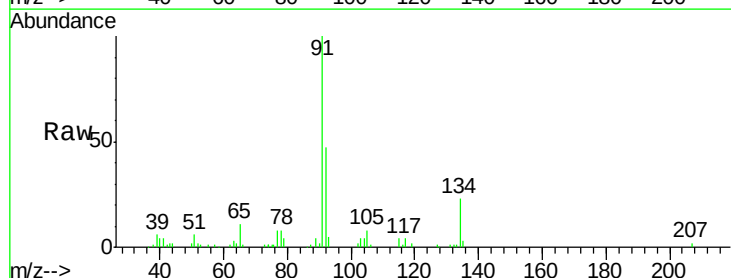
Tgt Ion: 91 Resp: 18603

Ion Ratio Lower Upper

91 100

92 47.6 26.2 78.6

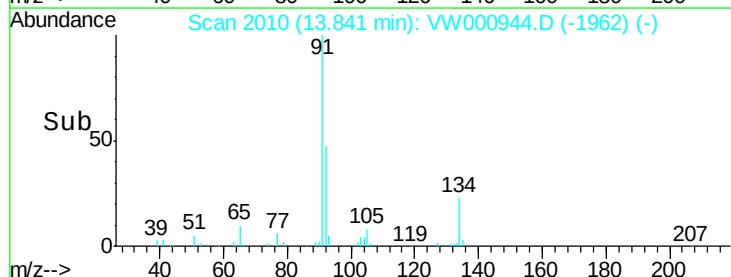
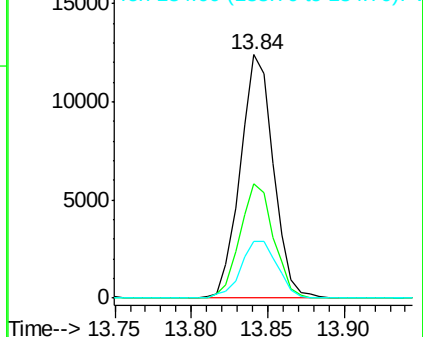
134 25.7 13.7 41.1

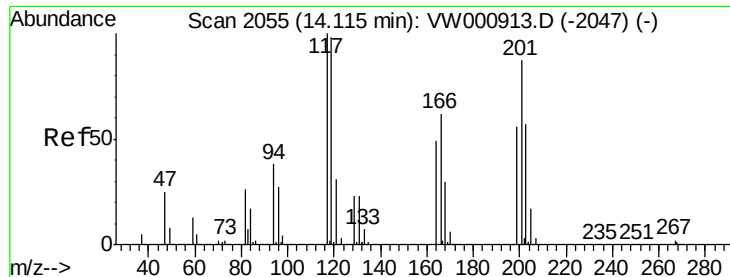


Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 2.00 ug/l

RT: 14.11 min Scan# 2054

Delta R.T. -0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

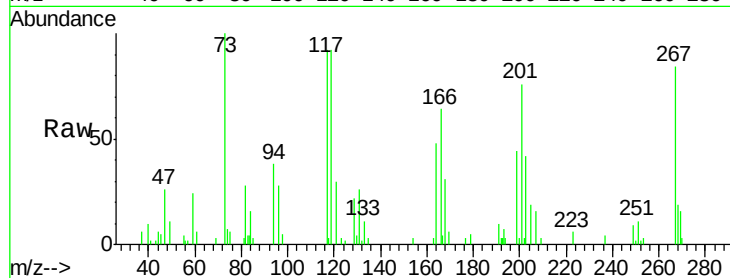
MDL-SOIL-03-QT1-2018

Tgt Ion:117 Resp: 3901

Ion Ratio Lower Upper

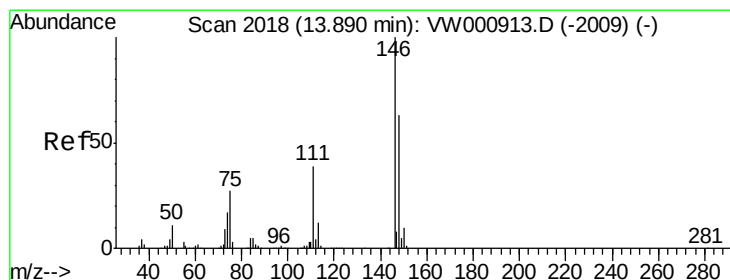
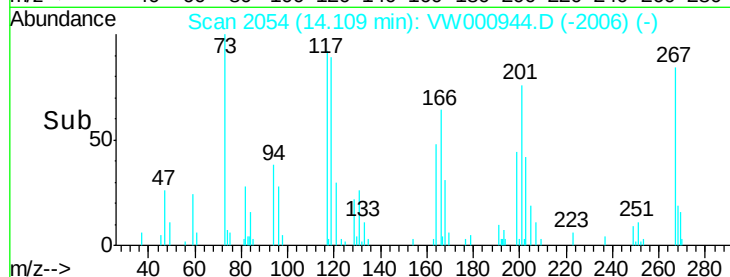
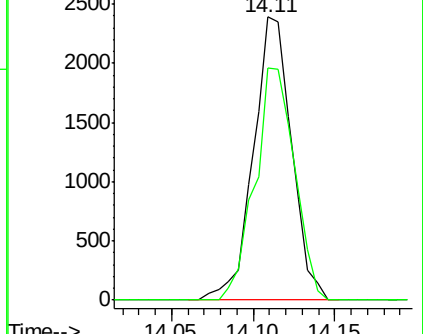
117 100

201 85.1 42.8 128.3



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#91

1,2-Dichlorobenzene

Concen: 1.97 ug/l

RT: 13.89 min Scan# 2018

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

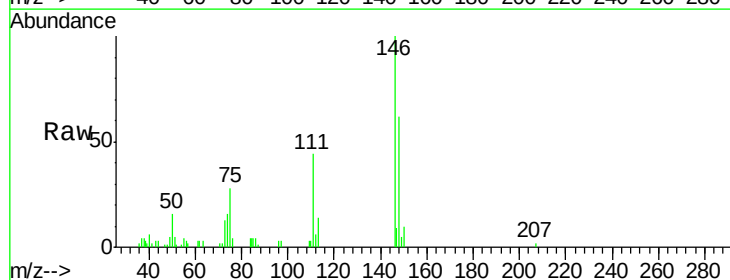
Tgt Ion:146 Resp: 9857

Ion Ratio Lower Upper

146 100

111 42.7 19.8 59.4

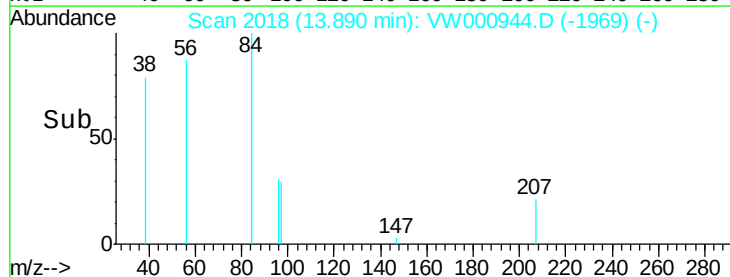
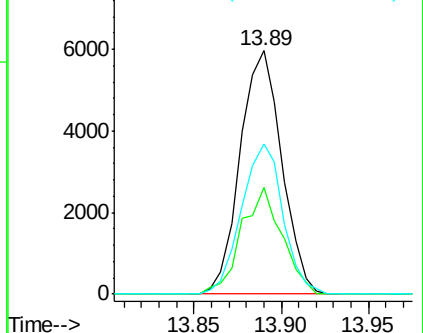
148 61.3 31.8 95.3

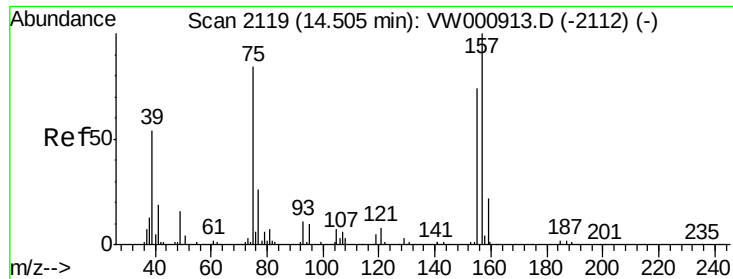


Abundance Ion 145.90 (145.60 to 146.60): V

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: 1.96 ug/l

RT: 14.51 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2018

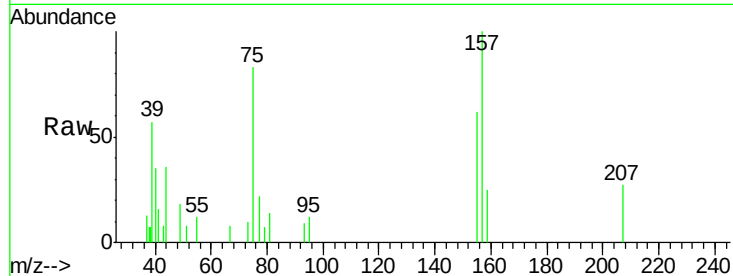
Tgt Ion: 75 Resp: 1018

Ion Ratio Lower Upper

75 100

155 80.2 45.9 137.6

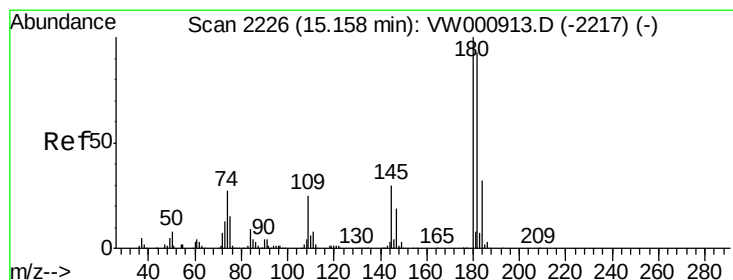
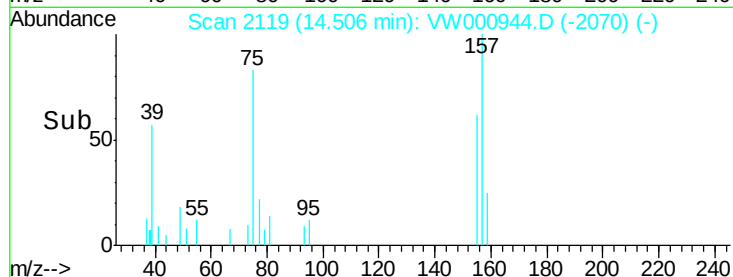
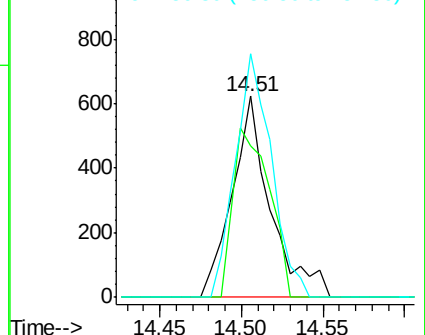
157 114.7 59.8 179.3



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: 2.07 ug/l

RT: 15.16 min Scan# 2226

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

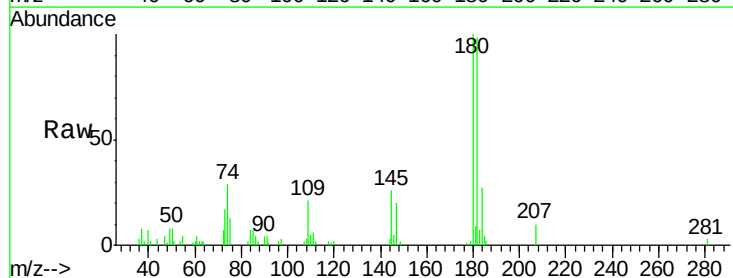
Tgt Ion: 180 Resp: 7687

Ion Ratio Lower Upper

180 100

182 92.4 47.5 142.6

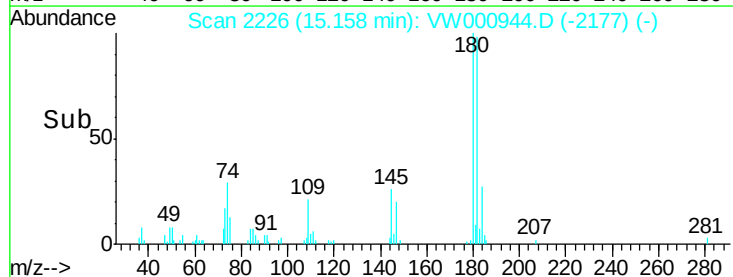
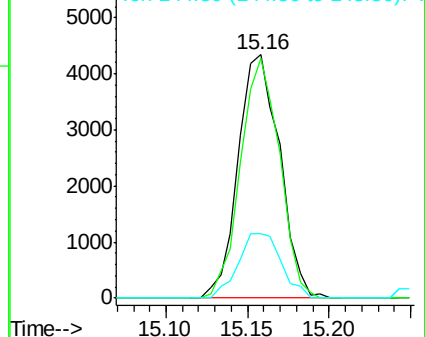
145 27.4 14.9 44.7

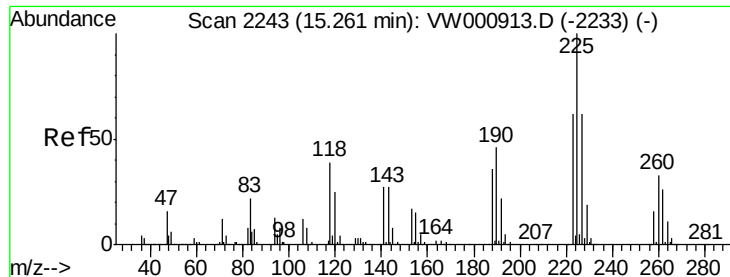


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 1.99 ug/l

RT: 15.26 min Scan# 2243

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2018

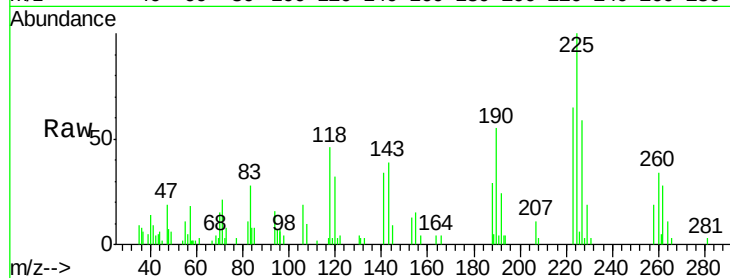
Tgt Ion:225 Resp: 4700

Ion Ratio Lower Upper

225 100

223 65.9 31.3 93.8

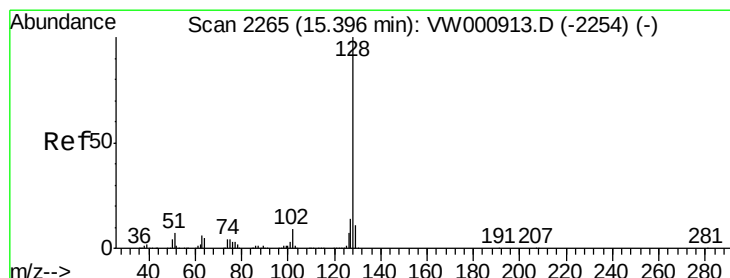
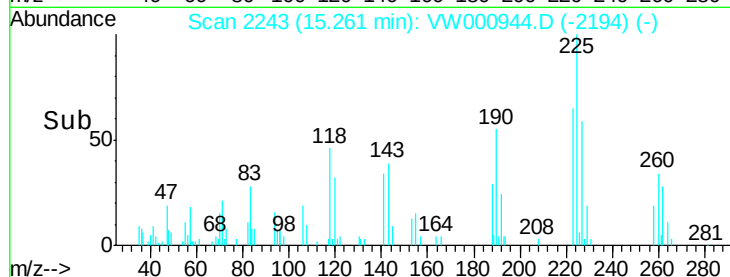
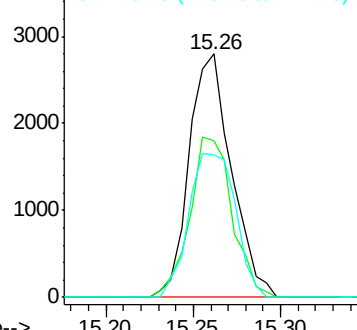
227 65.6 31.8 95.3



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: 1.73 ug/l

RT: 15.39 min Scan# 2264

Delta R.T. -0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

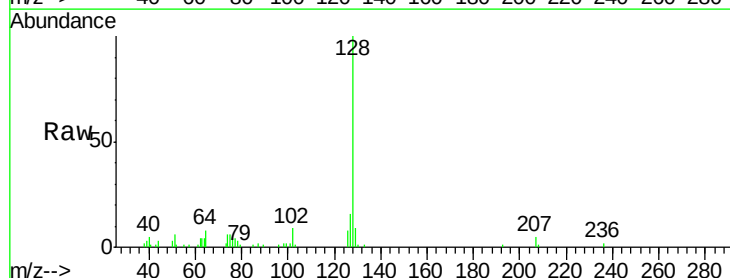
Tgt Ion:128 Resp: 13600

Ion Ratio Lower Upper

128 100

127 16.0 10.6 15.8#

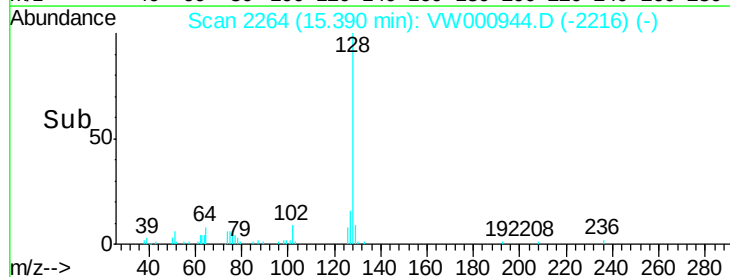
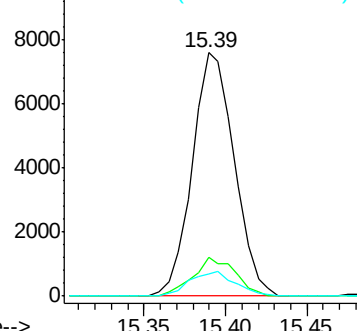
129 10.7 8.7 13.1

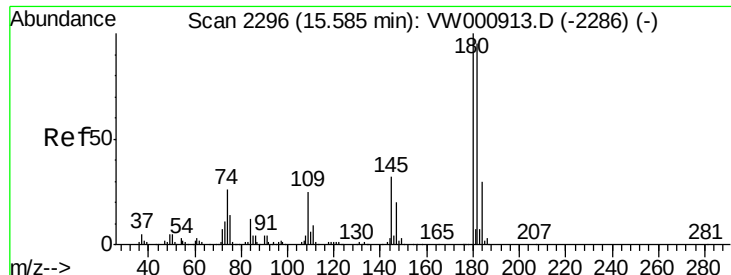


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 1.94 ug/l
 RT: 15.58 min Scan# 2295
 Delta R.T. -0.01 min
 Lab File: VW000944.D
 Acq: 24 Jan 2018 13:10

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT1-2018

Tgt Ion:	180	Resp:	6643
Ion	Ratio	Lower	Upper
180	100		
182	98.7	47.4	142.3
145	30.1	15.8	47.3

