

Data File : VW005900.D
Acq On : 08 Oct 2018 17:17
Operator : SY/AP
Sample : J5164-03MDL
Misc : 5.00G/5ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018DL

Quant Time: Oct 09 06:10:04 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W100818S.M
Quant Title : SW846 8260
QLast Update : Tue Oct 09 02:14:04 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	304568	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	444729	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	410098	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	220030	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	148758	50.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.62%	
35) Dibromofluoromethane	7.88	113	144472	50.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.76%	
50) Toluene-d8	10.33	98	563823	51.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.22%	
62) 4-Bromofluorobenzene	12.62	95	208915	50.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.52%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.01	85	3197	2.142 ug/l	98
3) Chloromethane	2.21	50	5538	3.155 ug/l	97
4) Vinyl Chloride	2.37	62	7251	2.602 ug/l	99
5) Bromomethane	2.78	94	6321	2.874 ug/l	88
6) Chloroethane	2.92	64	4502	2.535 ug/l	97
7) Trichlorofluoromethane	3.25	101	5131	2.319 ug/l	91
8) Diethyl Ether	3.68	74	3792	2.785 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	4.06	101	6404	2.294 ug/l	95
10) Methyl Iodide	4.27	142	10679	2.339 ug/l #	94
11) Tert butyl alcohol	5.23	59	3008	13.882 ug/l #	74
12) 1,1-Dichloroethene	4.04	96	6394	2.385 ug/l	87
13) Acrolein	3.89	56	2468	12.781 ug/l	88
14) Allyl chloride	4.67	41	10681	2.336 ug/l	96
15) Acrylonitrile	5.39	53	7158	12.080 ug/l	98
16) Acetone	4.14	43	8962	15.175 ug/l	92
17) Carbon Disulfide	4.38	76	19101	2.356 ug/l	97
18) Methyl Acetate	4.68	43	3882	2.605 ug/l #	89
19) Methyl tert-butyl Ether	5.43	73	10517	2.521 ug/l	92
20) Methylene Chloride	4.92	84	14283	4.827 ug/l	92
21) trans-1,2-Dichloroethene	5.42	96	7513	2.571 ug/l	95
22) Diisopropyl ether	6.31	45	19911	2.330 ug/l	96
23) Vinyl Acetate	6.26	43	58787	11.175 ug/l	99
24) 1,1-Dichloroethane	6.22	63	12494	2.389 ug/l	98
25) 2-Butanone	7.18	43	10538	12.545 ug/l	98
26) 2,2-Dichloropropane	7.17	77	11717	3.183 ug/l	93
27) cis-1,2-Dichloroethene	7.17	96	8430	2.551 ug/l	95
28) Bromochloromethane	7.51	49	5113	2.648 ug/l	91
29) Tetrahydrofuran	7.54	42	6706	12.629 ug/l	95
30) Chloroform	7.68	83	13048	2.429 ug/l	98
31) Cyclohexane	7.95	56	17532	3.387 ug/l #	75
32) 1,1,1-Trichloroethane	7.88	97	11833	2.473 ug/l	97
36) 1,1-Dichloropropene	8.09	75	10260	2.408 ug/l	94
37) Ethyl Acetate	7.26	43	4631	2.566 ug/l #	88
38) Carbon Tetrachloride	8.07	117	10602	2.316 ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	14066	2.503	ug/l	96
40) Benzene	8.33	78	28873	2.476	ug/l	99
41) Methacrylonitrile	7.49	41	2380	2.107	ug/l #	78
42) 1,2-Dichloroethane	8.40	62	8341	2.367	ug/l	94
43) Isopropyl Acetate	8.43	43	8738	2.318	ug/l	99
44) Trichloroethene	9.10	130	8467	2.502	ug/l	96
45) 1,2-Dichloropropane	9.37	63	6960	2.384	ug/l	92
46) Dibromomethane	9.46	93	4139	2.580	ug/l	96
47) Bromodichloromethane	9.65	83	9635	2.386	ug/l	99
48) Methyl methacrylate	9.44	41	5052	2.813	ug/l	89
49) 1,4-Dioxane	9.47	88	1180	48.416	ug/l #	78
51) 4-Methyl-2-Pentanone	10.21	43	24023	13.087	ug/l	99
52) Toluene	10.39	92	19006	2.481	ug/l	97
53) t-1,3-Dichloropropene	10.61	75	9569	2.268	ug/l	100
54) cis-1,3-Dichloropropene	10.07	75	11223	2.366	ug/l	96
55) 1,1,2-Trichloroethane	10.79	97	5457	2.455	ug/l	96
56) Ethyl methacrylate	10.65	69	7288	2.433	ug/l	93
57) 1,3-Dichloropropane	10.93	76	9061	2.424	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.93	63	15057	12.354	ug/l	99
59) 2-Hexanone	10.98	43	15619	11.867	ug/l	99
60) Dibromochloromethane	11.13	129	6618	2.308	ug/l	100
61) 1,2-Dibromoethane	11.24	107	5354	2.411	ug/l	96
64) Tetrachloroethene	10.87	164	7368	2.412	ug/l	96
65) Chlorobenzene	11.66	112	21112	2.403	ug/l	91
66) 1,1,1,2-Tetrachloroethane	11.73	131	7770	2.413	ug/l	97
67) Ethyl Benzene	11.74	91	37007	2.385	ug/l	99
68) m/p-Xylenes	11.84	106	29141	4.806	ug/l	98
69) o-Xylene	12.17	106	13458	2.318	ug/l	99
70) Styrene	12.19	104	22535	2.340	ug/l	98
71) Bromoform	12.35	173	4313	2.249	ug/l #	99
73) Isopropylbenzene	12.47	105	37122	2.310	ug/l	100
74) N-amyl acetate	12.28	43	9014	2.362	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.72	83	6565	2.493	ug/l	97
76) 1,2,3-Trichloropropane	12.77	75	8357	4.252	ug/l #	100
77) Bromobenzene	12.75	156	9302	2.443	ug/l	100
78) n-propylbenzene	12.81	91	43369	2.294	ug/l	100
79) 2-Chlorotoluene	12.90	91	25174	2.359	ug/l	99
80) 1,3,5-Trimethylbenzene	12.95	105	31919	2.353	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.62	75	107216	115.160	ug/l #	11
82) 4-Chlorotoluene	12.99	91	26686	2.377	ug/l	99
83) tert-Butylbenzene	13.21	119	27841	2.307	ug/l	99
84) 1,2,4-Trimethylbenzene	13.26	105	32336	2.363	ug/l	100
85) sec-Butylbenzene	13.39	105	39967	2.360	ug/l	99
86) p-Isopropyltoluene	13.51	119	35962	2.361	ug/l	98
87) 1,3-Dichlorobenzene	13.51	146	18077	2.390	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	18790	2.500	ug/l	89
89) n-Butylbenzene	13.83	91	33929	2.363	ug/l	98
90) Hexachloroethane	14.10	117	6246	2.180	ug/l	99
91) 1,2-Dichlorobenzene	13.88	146	16501	2.457	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.49	75	1110	2.261	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW100818\
Quantitation Report (Not Reviewed)

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ClientSampleId :
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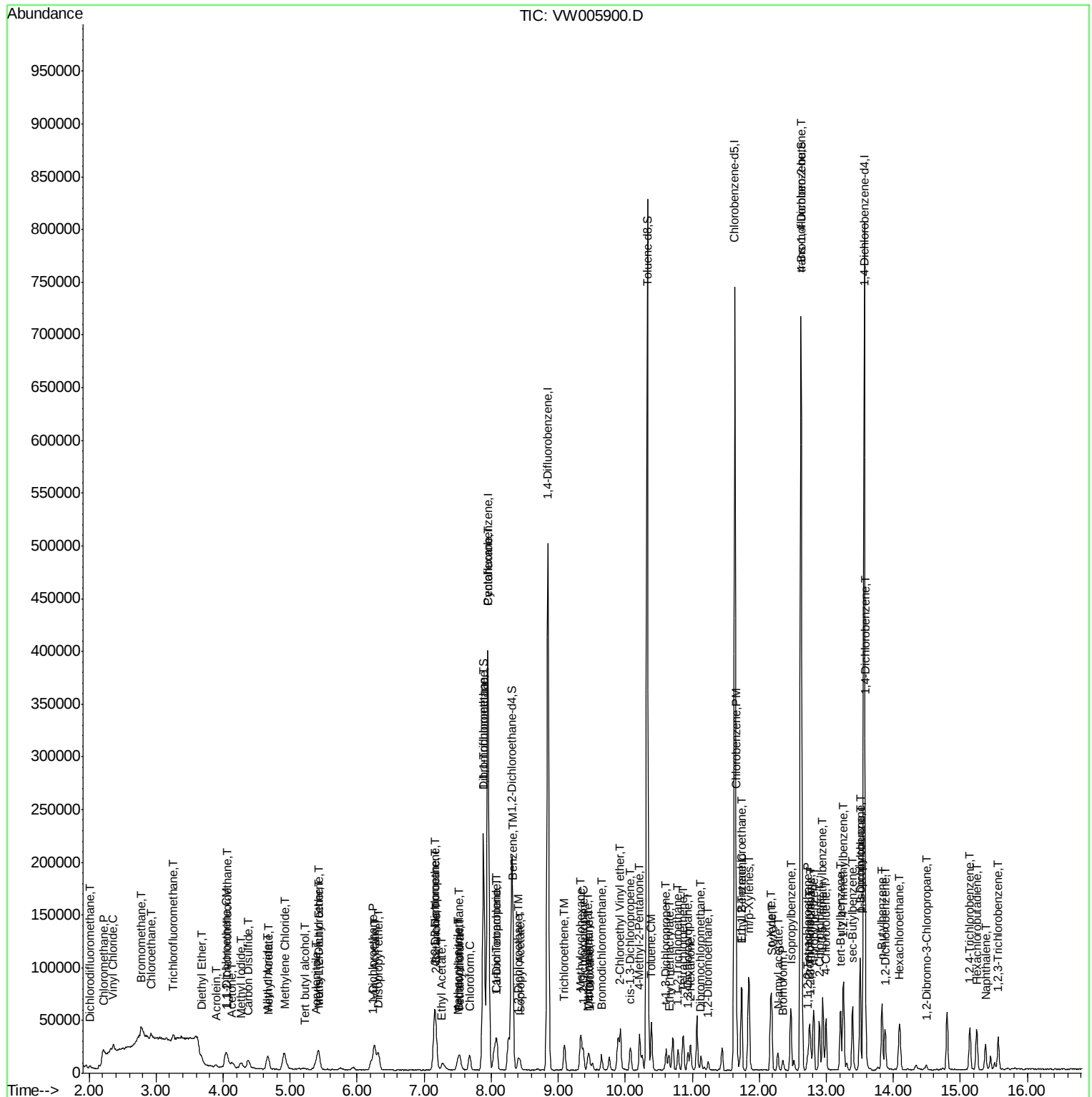
Quant Time: Oct 09 06:10:04 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W100818S.M
Quant Title : SW846 8260
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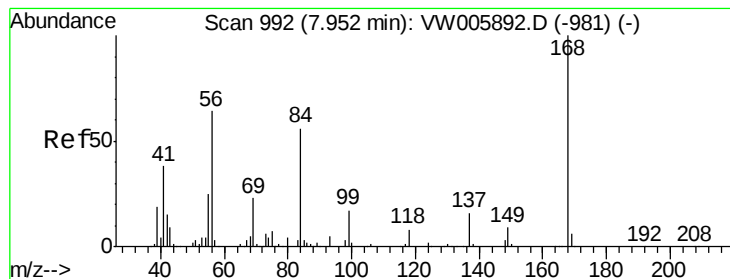
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	12562	2.413	ug/l	99
94) Hexachlorobutadiene	15.24	225	7554	2.324	ug/l	96
95) Naphthalene	15.38	128	21904	2.441	ug/l	100
96) 1,2,3-Trichlorobenzene	15.57	180	11185	2.481	ug/l	100

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

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018DL

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW005900.D

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Instrument :

MSVOA_W

ClientSampleId :

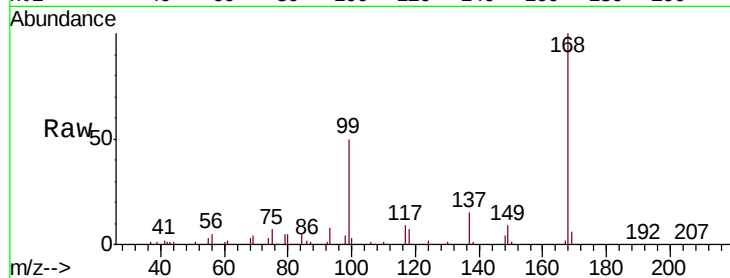
MDL-MDL-SOIL-03-QT4-2018DL

Tgt Ion:168 Resp: 304568

Ion Ratio Lower Upper

168 100

99 49.9 40.9 61.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

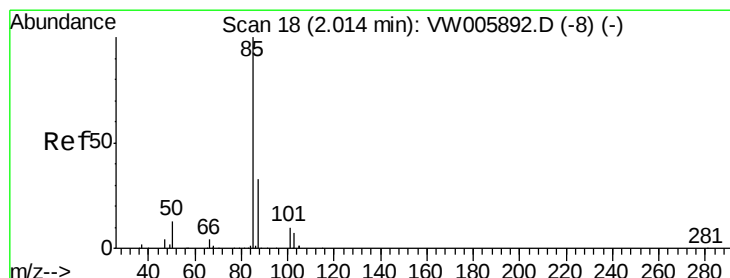
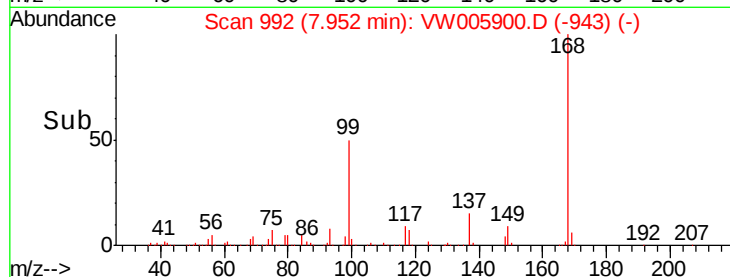
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: 2.142 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW005900.D

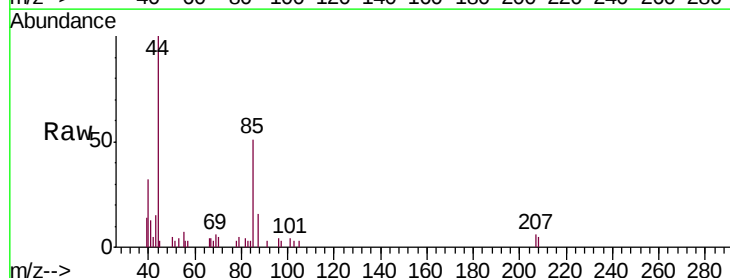
Acq: 08 Oct 2018 17:17

Tgt Ion: 85 Resp: 3197

Ion Ratio Lower Upper

85 100

87 32.1 16.6 49.8



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

1000

800

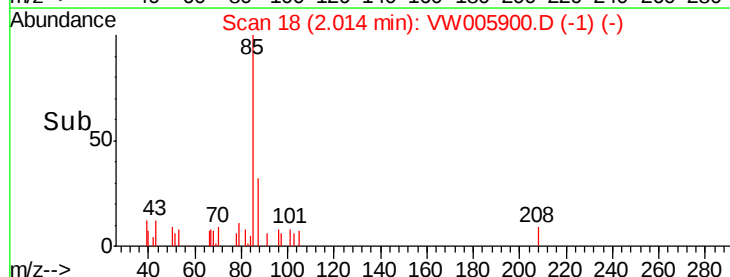
600

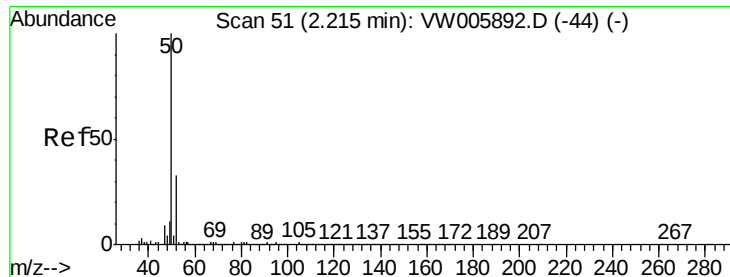
400

200

0

Time--> 1.95 2.00 2.05 2.10





#3

Chloromethane

Concen: 3.155 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

Instrument :

MSVOA_W

ClientSampleId :

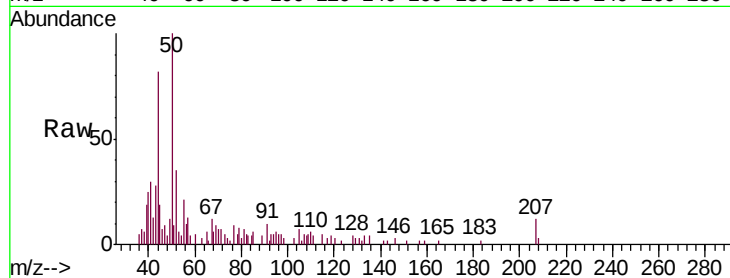
MDL-MDL-SOIL-03-QT4-2018DL

Tgt Ion: 50 Resp: 5538

Ion Ratio Lower Upper

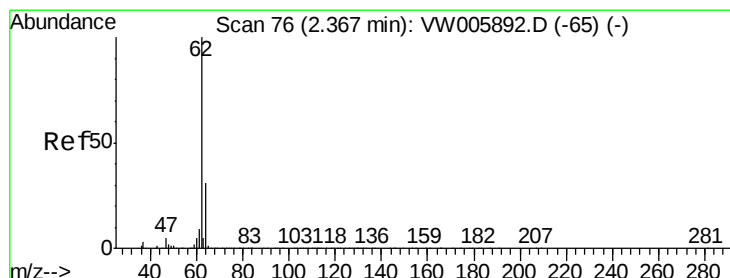
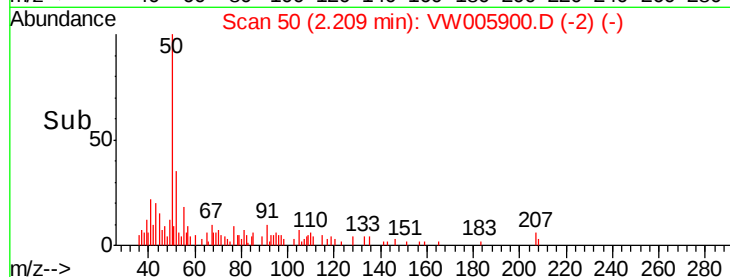
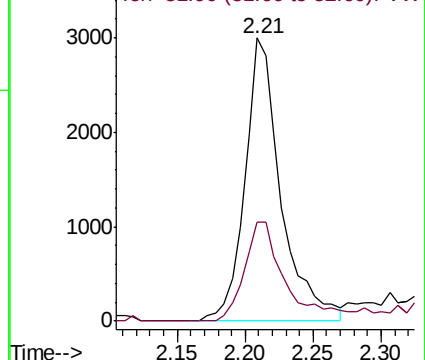
50 100

52 35.1 26.7 40.1



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



#4

Vinyl Chloride

Concen: 2.602 ug/l

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW005900.D

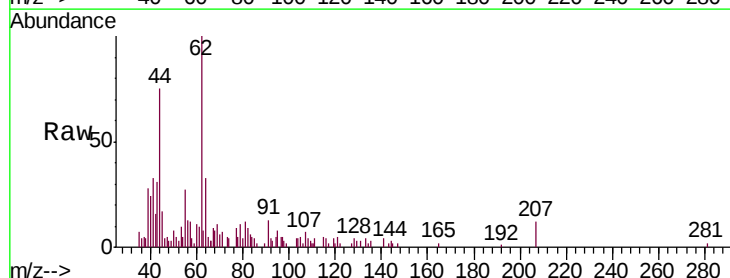
Acq: 08 Oct 2018 17:17

Tgt Ion: 62 Resp: 7251

Ion Ratio Lower Upper

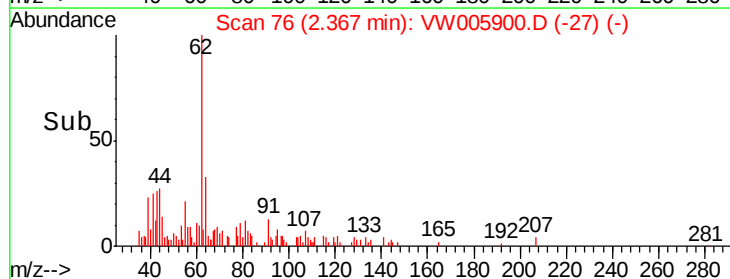
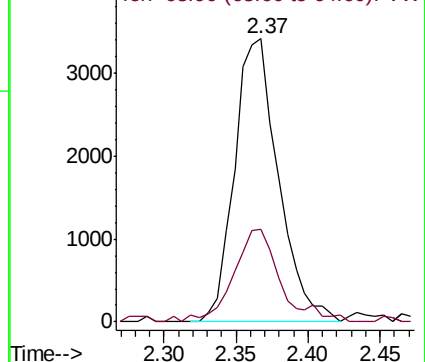
62 100

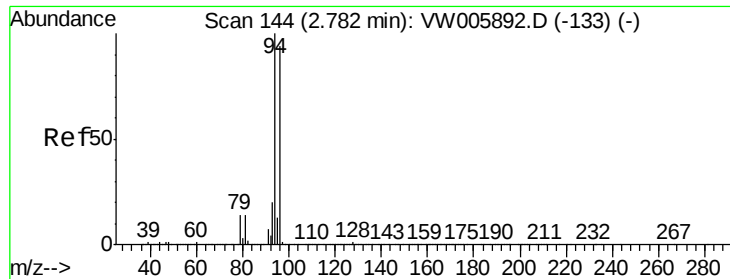
64 30.3 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW





#5

Bromomethane

Concen: 2.874 ug/l

RT: 2.78 min Scan# 144

Delta R.T. 0.00 min

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Acq: 08 Oct 2018 17:17

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ClientSampleId :

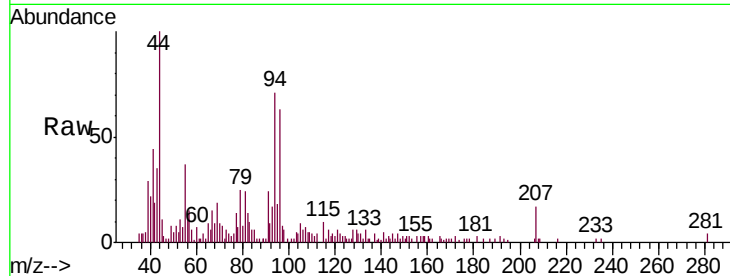
MDL-MDL-SOIL-03-QT4-2018DL

Tgt Ion: 94 Resp: 6321

Ion Ratio Lower Upper

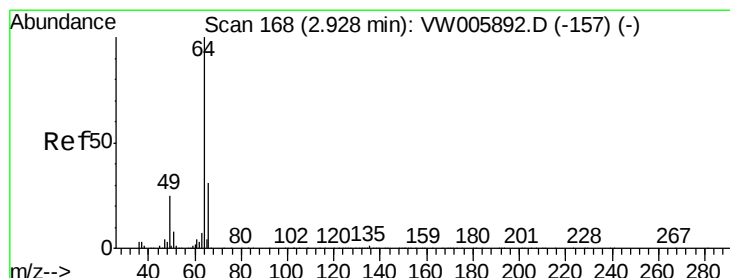
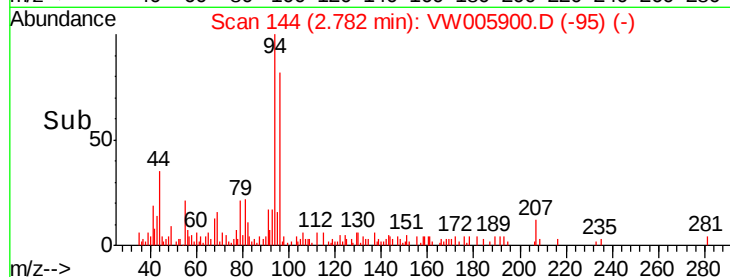
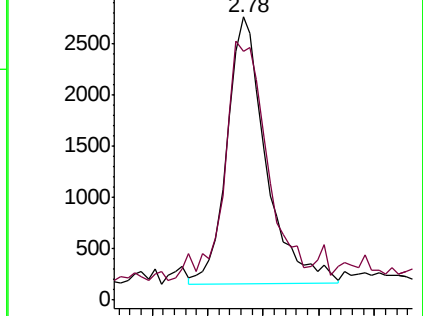
94 100

96 81.9 75.0 112.4



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#6

Chloroethane

Concen: 2.535 ug/l

RT: 2.92 min Scan# 167

Delta R.T. -0.01 min

Lab File: VW005900.D

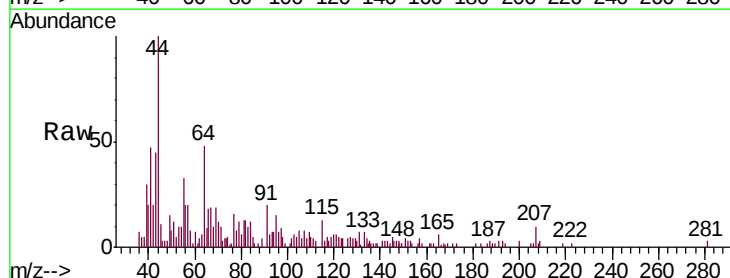
Acq: 08 Oct 2018 17:17

Tgt Ion: 64 Resp: 4502

Ion Ratio Lower Upper

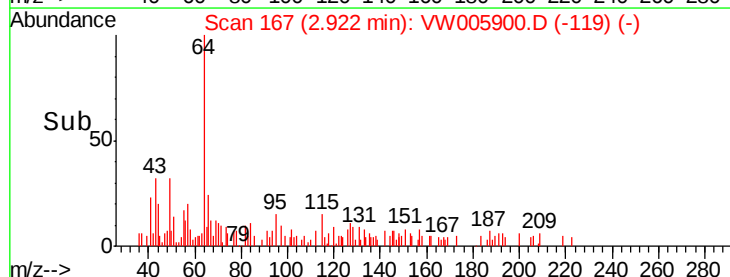
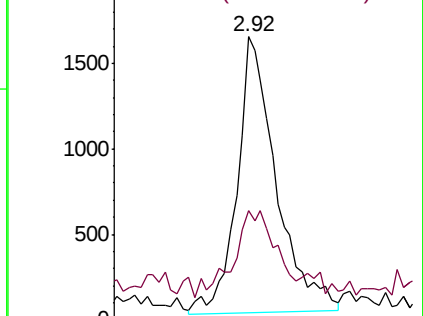
64 100

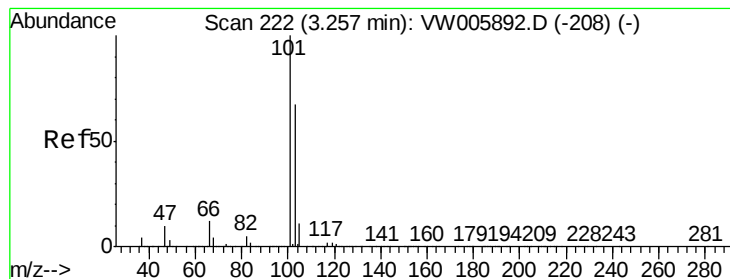
66 29.6 25.0 37.4



Abundance Ion 63.90 (63.60 to 64.60): VW

Ion 65.90 (65.60 to 66.60): VW



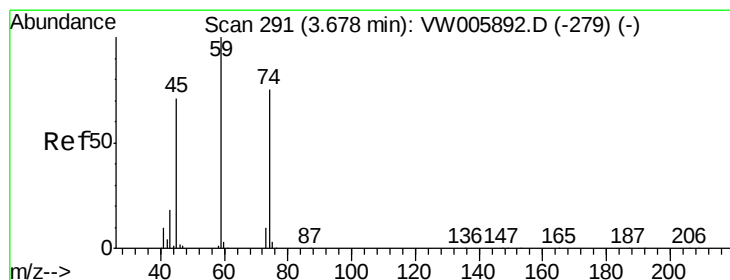
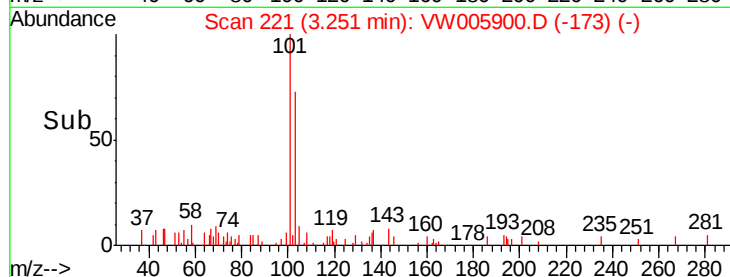
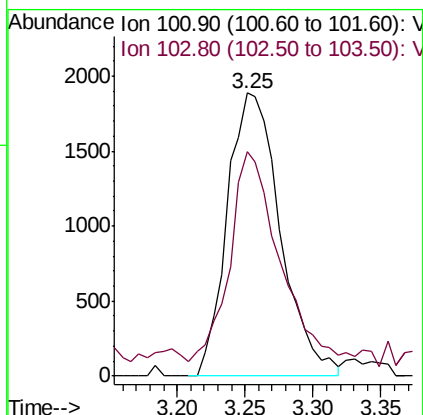
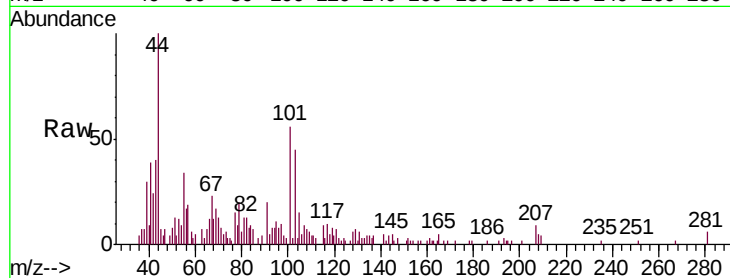


#7

Trichlorofluoromethane
Concen: 2.319 ug/l
RT: 3.25 min Scan# 221
Delta R.T. -0.01 min
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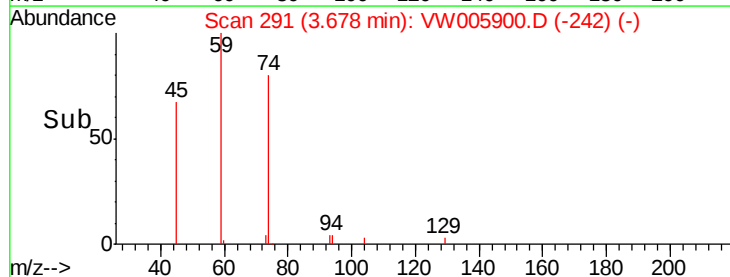
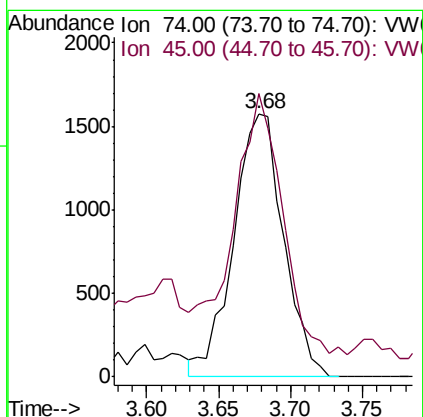
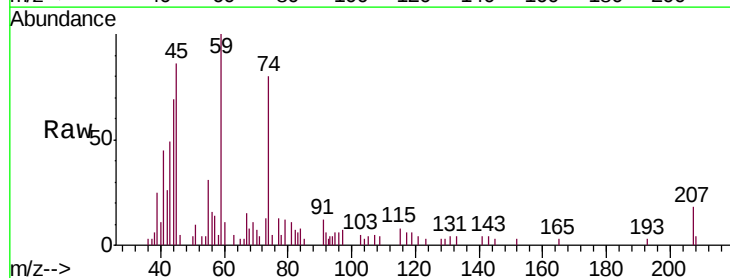
Tgt Ion: 101 Resp: 5131
Ion Ratio Lower Upper
101 100
103 74.3 53.5 80.3

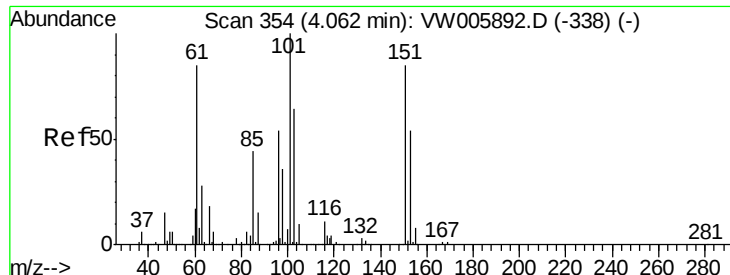


#8

Diethyl Ether
Concen: 2.785 ug/l
RT: 3.68 min Scan# 291
Delta R.T. 0.00 min
Lab File: VW005900.D
Acq: 08 Oct 2018 17:17

Tgt Ion: 74 Resp: 3792
Ion Ratio Lower Upper
74 100
45 91.9 46.8 140.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.294 ug/l

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

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MSVOA_W

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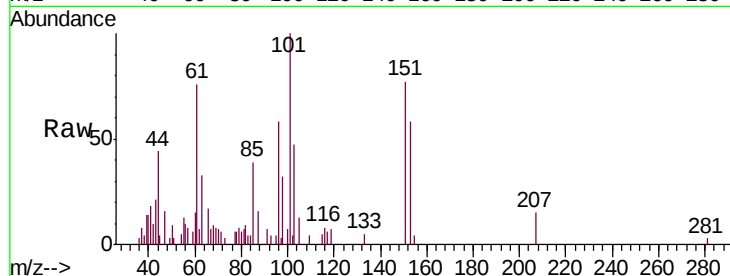
Tgt Ion:101 Resp: 6404

Ion Ratio Lower Upper

101 100

85 50.8 35.1 52.7

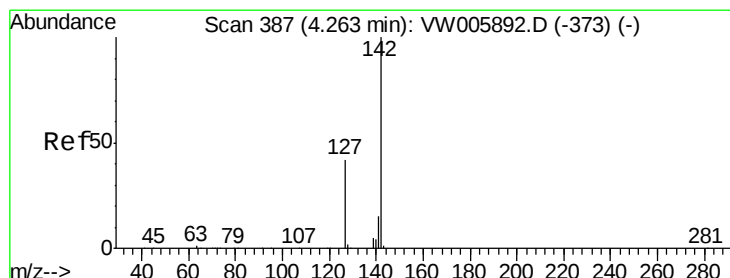
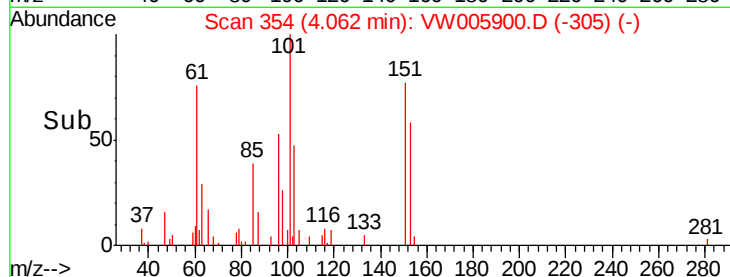
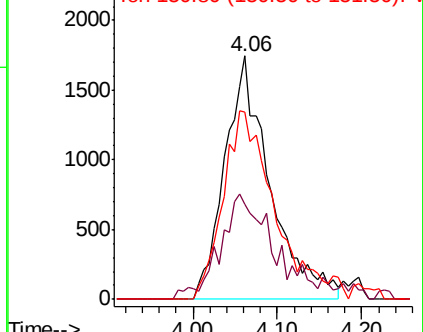
151 86.5 67.7 101.5



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 2.339 ug/l

RT: 4.27 min Scan# 388

Delta R.T. 0.01 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

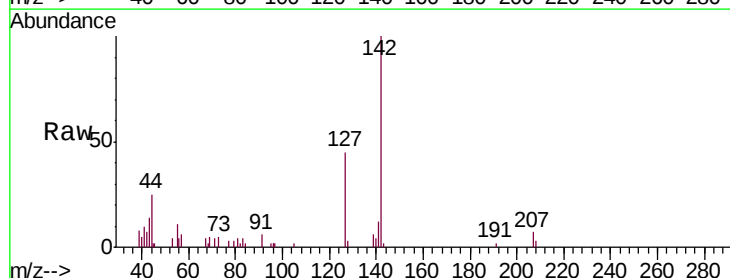
Tgt Ion:142 Resp: 10679

Ion Ratio Lower Upper

142 100

127 43.3 33.7 50.5

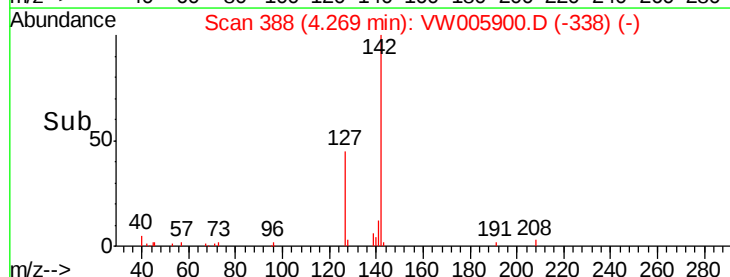
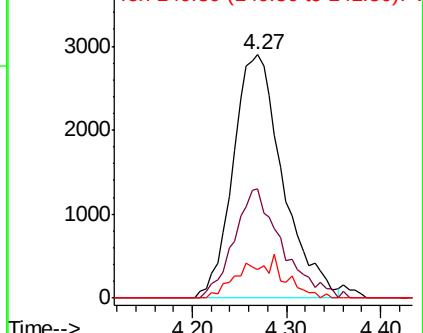
141 7.3 11.5 17.3#

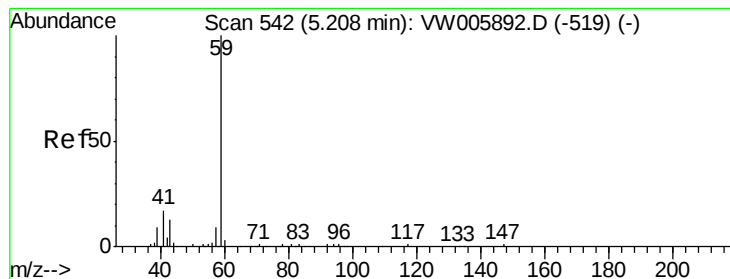


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



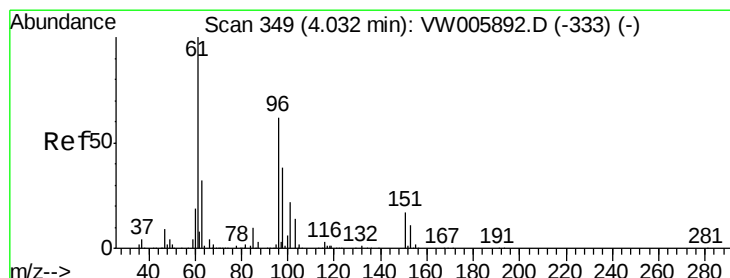
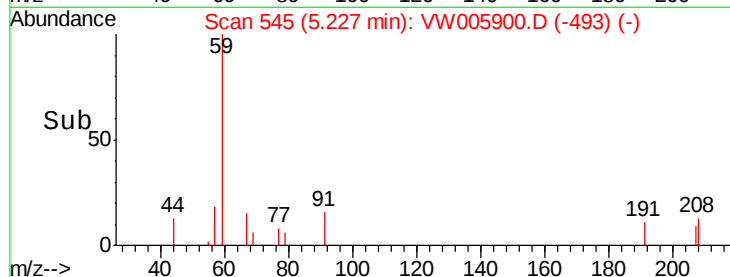
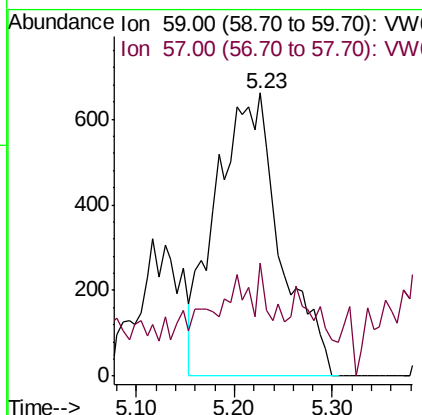
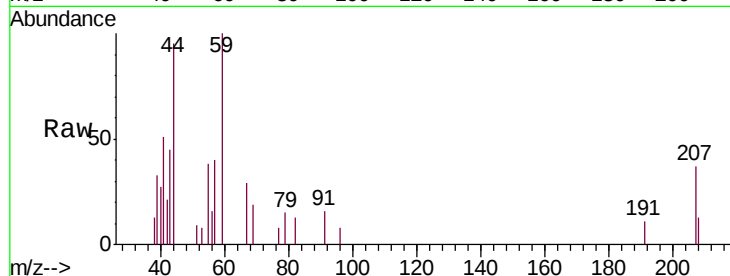


#11

Tert butyl alcohol
Concen: 13.882 ug/l
RT: 5.23 min Scan# 545
Delta R.T. 0.02 min
Lab File: VW005900.D
Acq: 08 Oct 2018 17:17

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018DL

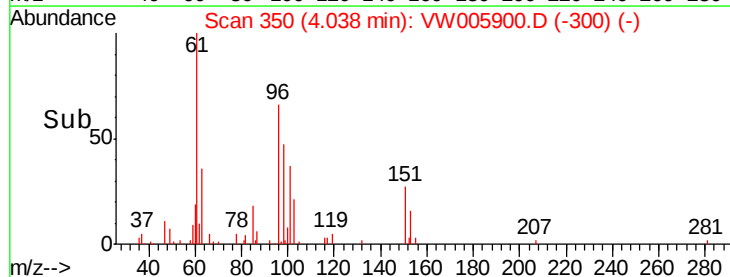
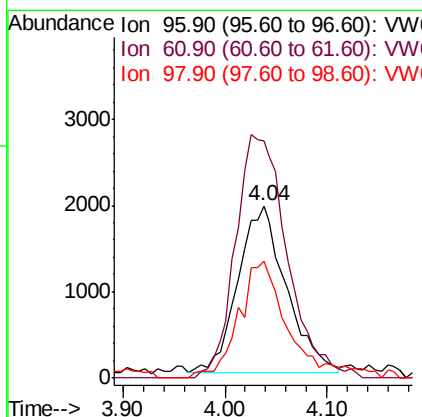
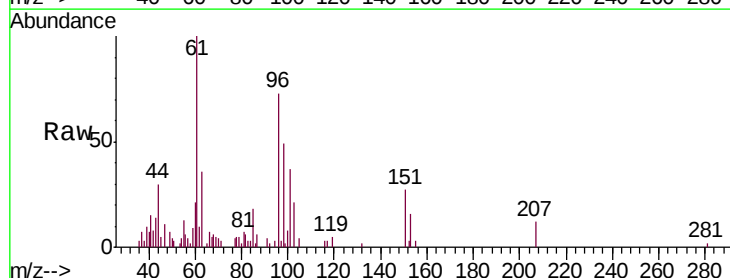
Tgt Ion: 59 Resp: 3008
Ion Ratio Lower Upper
59 100
57 0.0 7.7 11.5#

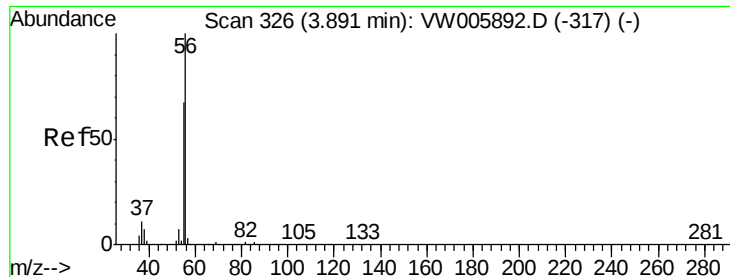


#12

1,1-Dichloroethene
Concen: 2.385 ug/l
RT: 4.04 min Scan# 350
Delta R.T. 0.01 min
Lab File: VW005900.D
Acq: 08 Oct 2018 17:17

Tgt Ion: 96 Resp: 6394
Ion Ratio Lower Upper
96 100
61 142.2 128.6 193.0
98 70.3 49.4 74.0





#13

Acrolein

Concen: 12.781 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.00 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

Instrument :

MSVOA_W

ClientSampleId :

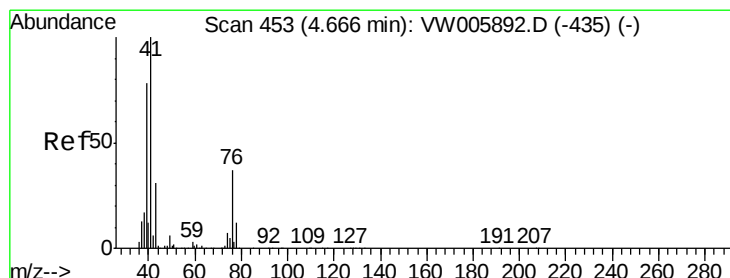
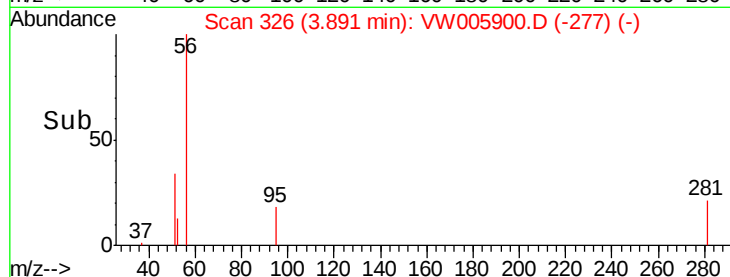
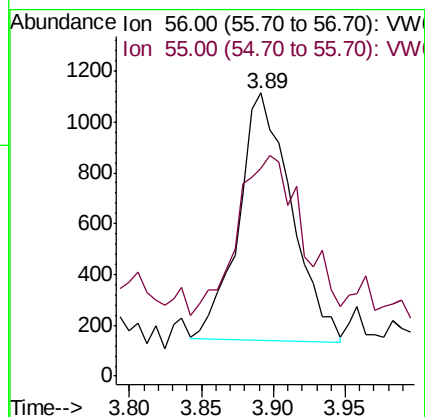
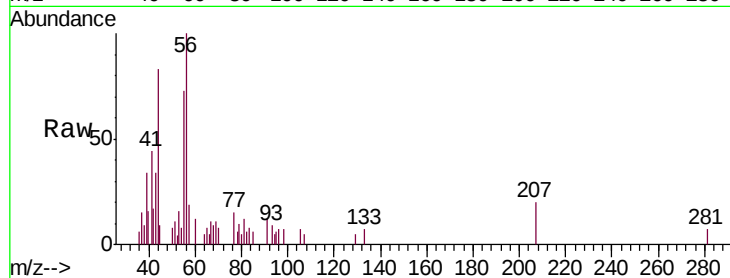
MDL-MDL-SOIL-03-QT4-2018DL

Tgt Ion: 56 Resp: 2468

Ion Ratio Lower Upper

56 100

55 78.2 54.6 82.0



#14

Allyl chloride

Concen: 2.336 ug/l

RT: 4.67 min Scan# 453

Delta R.T. 0.00 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

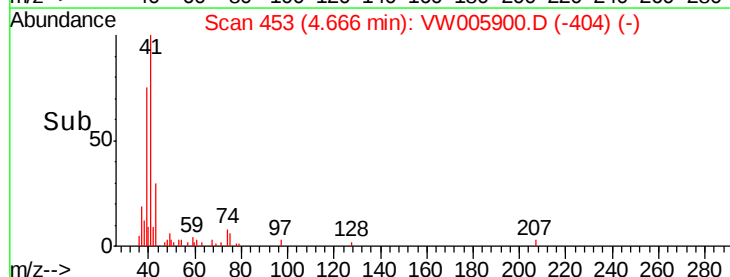
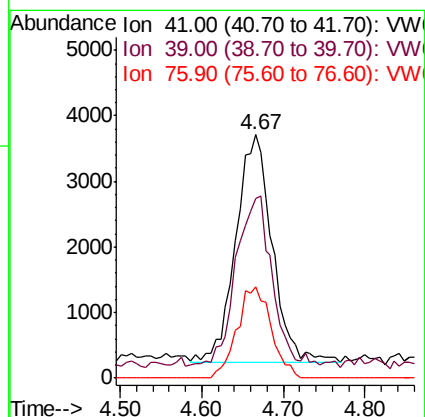
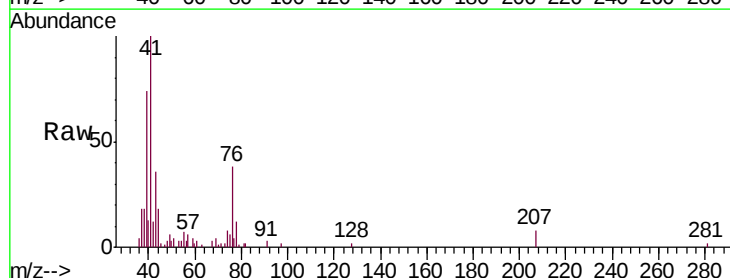
Tgt Ion: 41 Resp: 10681

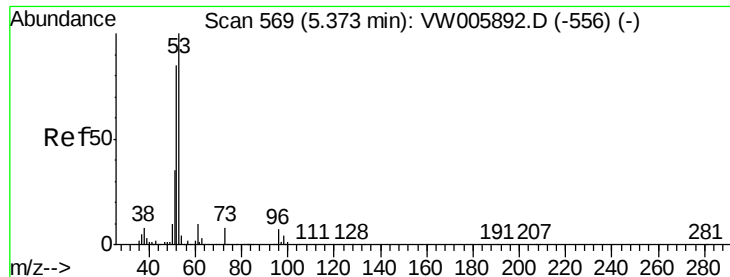
Ion Ratio Lower Upper

41 100

39 71.6 60.8 91.2

76 37.6 29.6 44.4

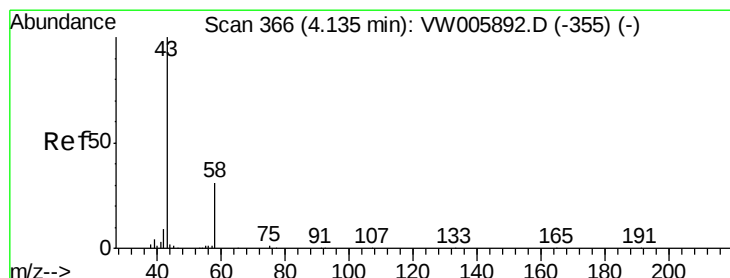
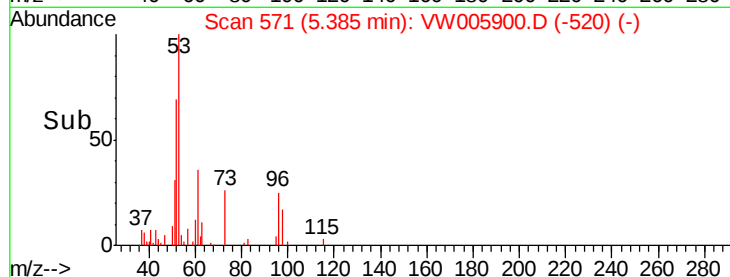
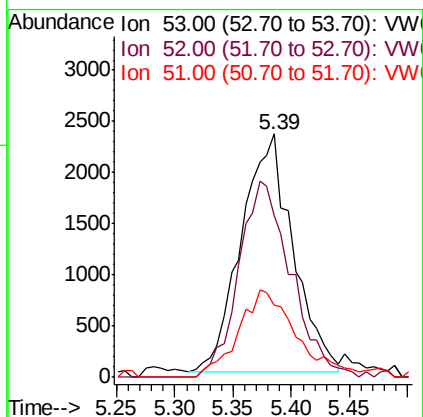
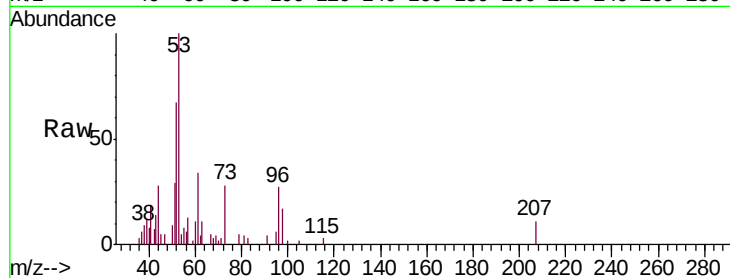




#15
 Acrylonitrile
 Concen: 12.080 ug/l
 RT: 5.39 min Scan# 571
 Delta R.T. 0.01 min
 Lab File: VW005900.D
 Acq: 08 Oct 2018 17:17

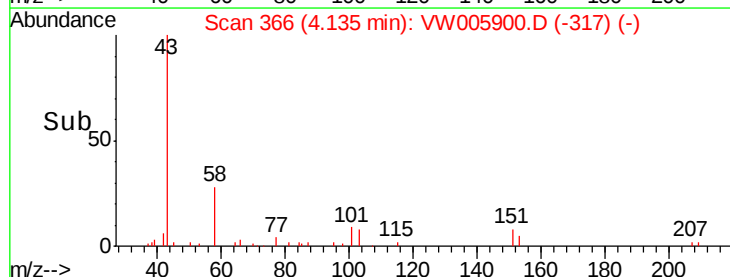
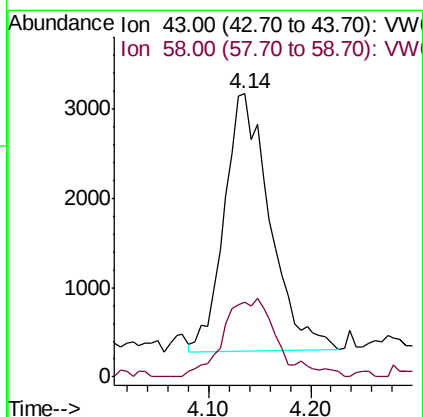
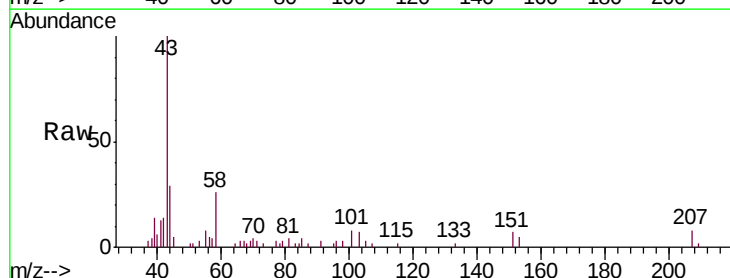
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018DL

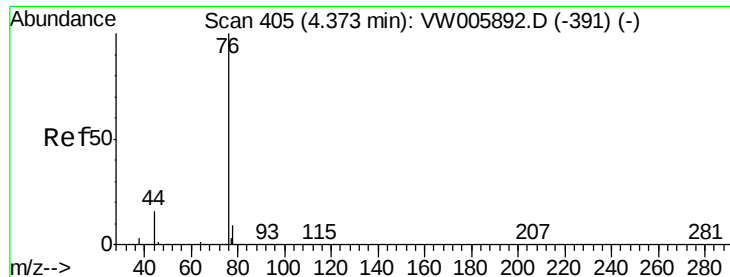
Tgt Ion: 53 Resp: 7158
 Ion Ratio Lower Upper
 53 100
 52 83.5 66.8 100.2
 51 41.2 29.8 44.6



#16
 Acetone
 Concen: 15.175 ug/l
 RT: 4.14 min Scan# 366
 Delta R.T. 0.00 min
 Lab File: VW005900.D
 Acq: 08 Oct 2018 17:17

Tgt Ion: 43 Resp: 8962
 Ion Ratio Lower Upper
 43 100
 58 26.7 24.7 37.1





#17

Carbon Disulfide

Concen: 2.356 ug/l

RT: 4.38 min Scan# 406

Delta R.T. 0.01 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

Instrument :

MSVOA_W

ClientSampleId :

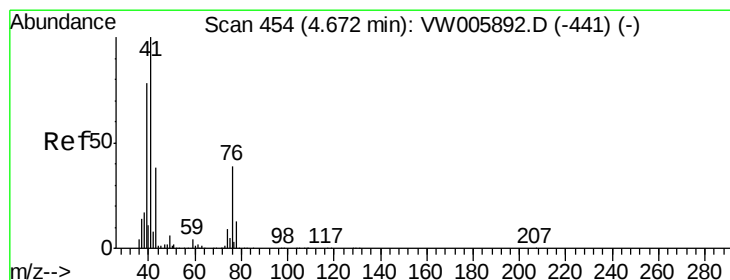
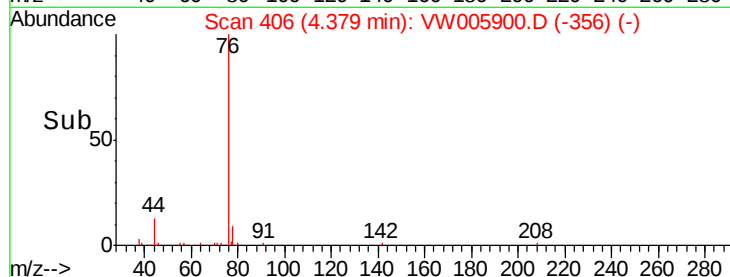
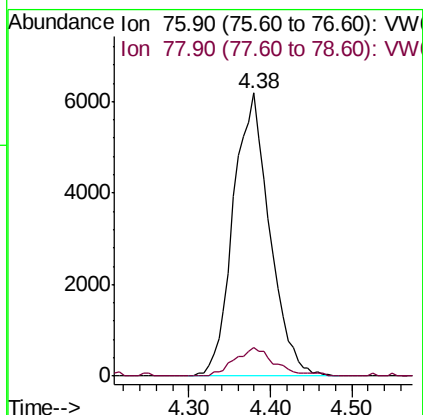
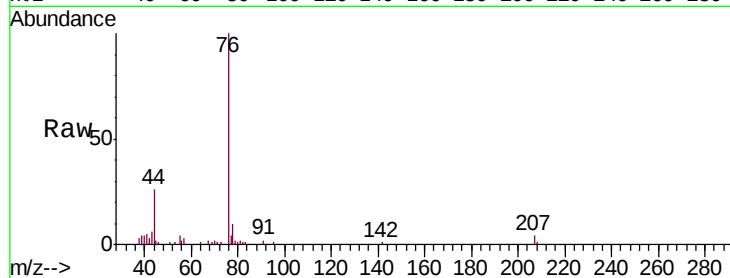
MDL-MDL-SOIL-03-QT4-2018DL

Tgt Ion: 76 Resp: 19101

Ion Ratio Lower Upper

76 100

78 10.3 7.4 11.0



#18

Methyl Acetate

Concen: 2.605 ug/l

RT: 4.68 min Scan# 456

Delta R.T. 0.01 min

Lab File: VW005900.D

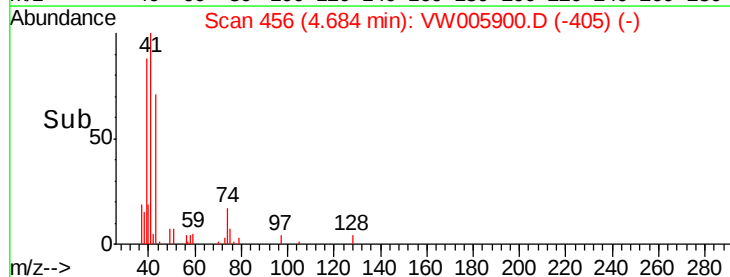
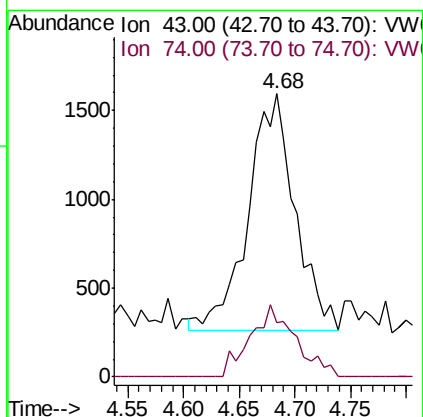
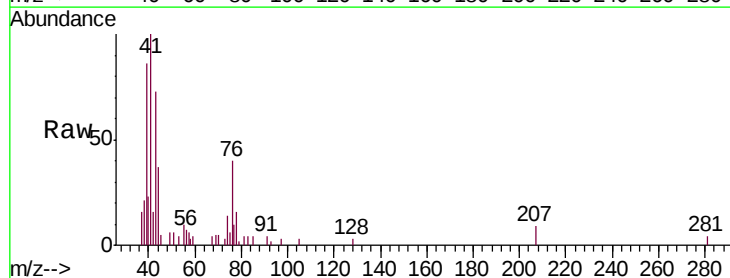
Acq: 08 Oct 2018 17:17

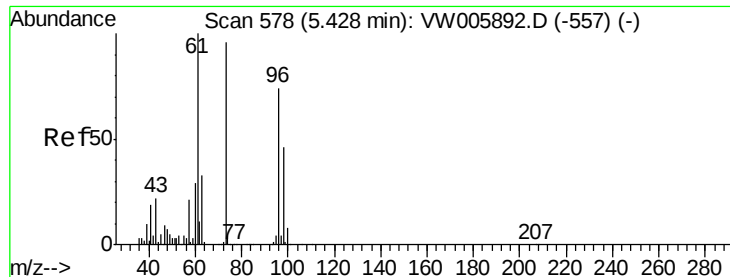
Tgt Ion: 43 Resp: 3882

Ion Ratio Lower Upper

43 100

74 29.4 19.2 28.8#



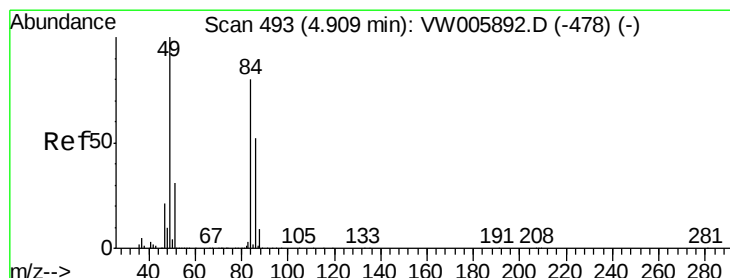
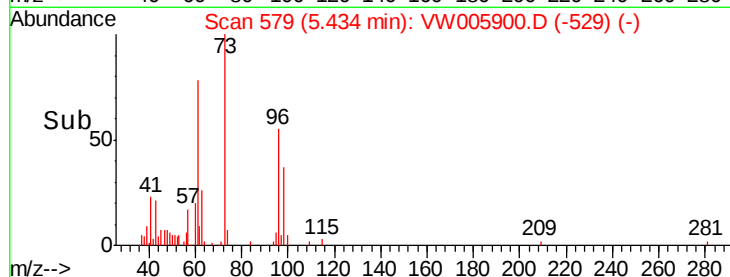
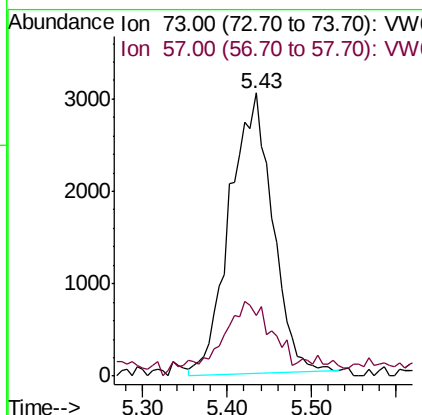
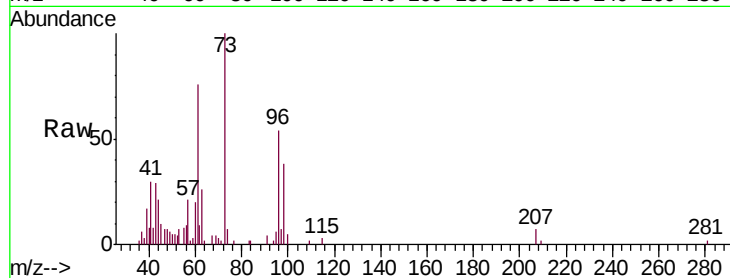


#19

Methyl tert-butyl Ether
 Concen: 2.521 ug/l
 RT: 5.43 min Scan# 579
 Delta R.T. 0.01 min
 Lab File: VW005900.D
 Acq: 08 Oct 2018 17:17

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018DL

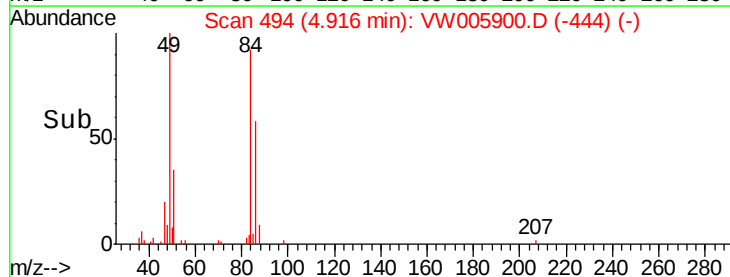
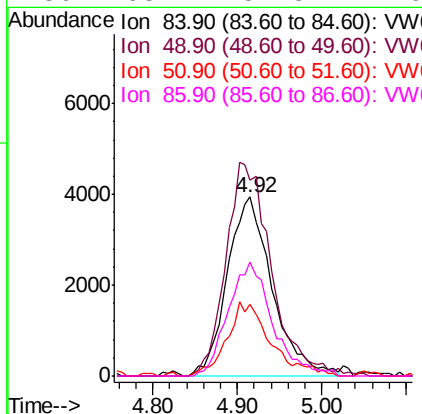
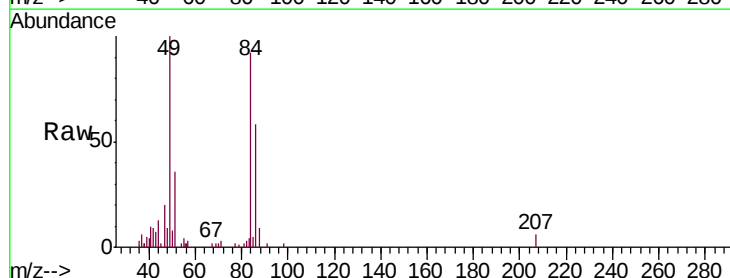
Tgt Ion: 73 Resp: 10517
 Ion Ratio Lower Upper
 73 100
 57 18.1 17.7 26.5

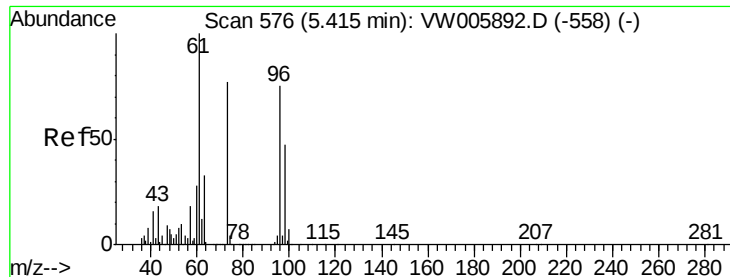


#20

Methylene Chloride
 Concen: 4.827 ug/l
 RT: 4.92 min Scan# 494
 Delta R.T. 0.01 min
 Lab File: VW005900.D
 Acq: 08 Oct 2018 17:17

Tgt Ion: 84 Resp: 14283
 Ion Ratio Lower Upper
 84 100
 49 109.2 99.9 149.9
 51 39.8 31.1 46.7
 86 63.7 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 2.571 ug/l

RT: 5.42 min Scan# 577

Delta R.T. 0.01 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018DL

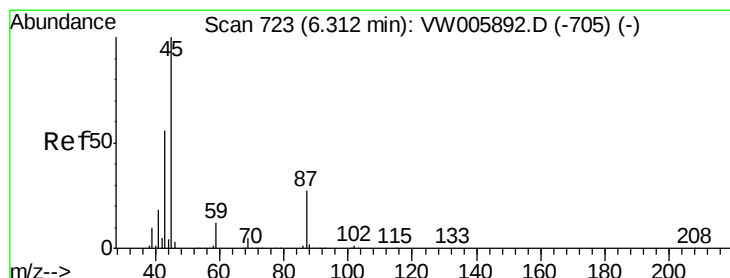
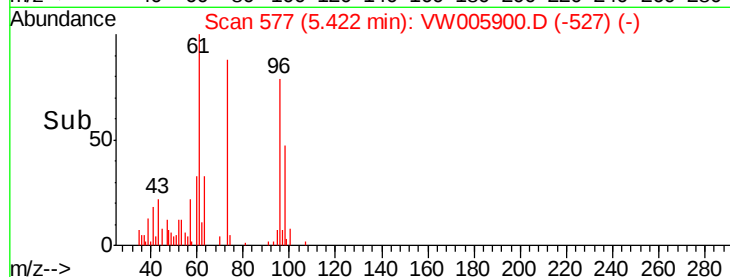
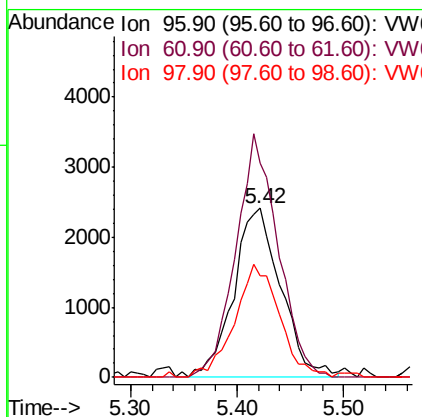
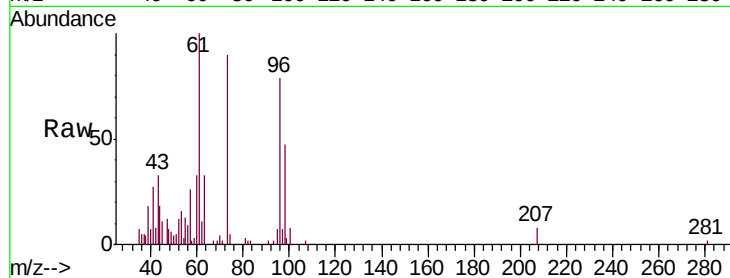
Tgt Ion: 96 Resp: 7513

Ion Ratio Lower Upper

96 100

61 127.0 107.4 161.0

98 60.2 50.8 76.2



#22

Diisopropyl ether

Concen: 2.330 ug/l

RT: 6.31 min Scan# 723

Delta R.T. 0.00 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

Tgt Ion: 45 Resp: 19911

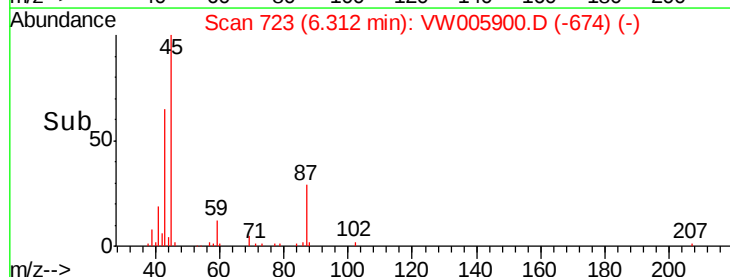
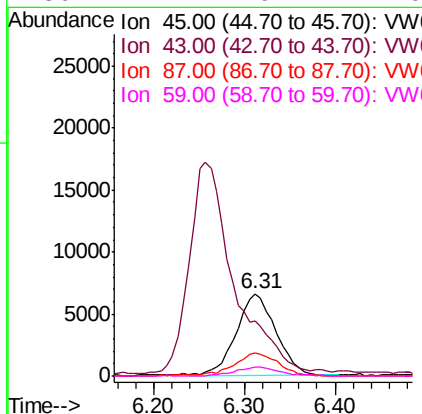
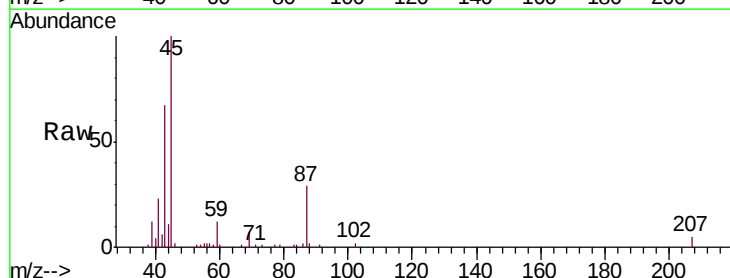
Ion Ratio Lower Upper

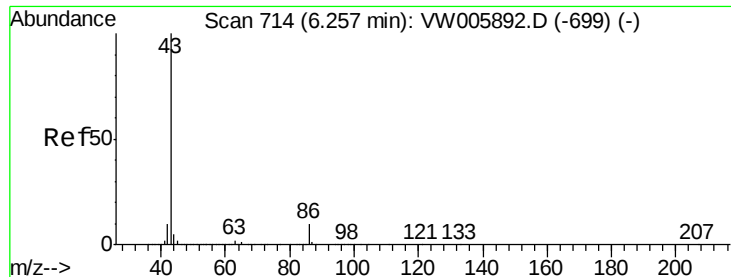
45 100

43 61.9 45.9 68.9

87 28.8 22.2 33.4

59 11.7 9.4 14.0





#23

Vinyl Acetate

Concen: 11.175 ug/l

RT: 6.26 min Scan# 714

Delta R.T. 0.00 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

Instrument :

MSVOA_W

ClientSampleId :

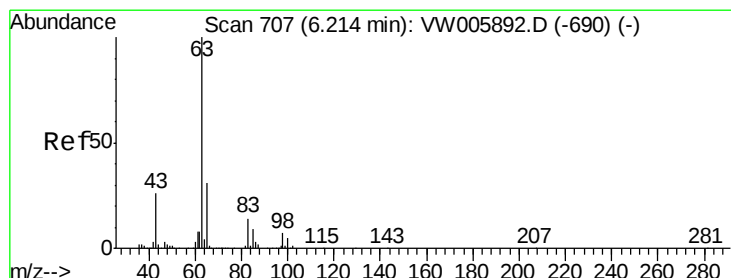
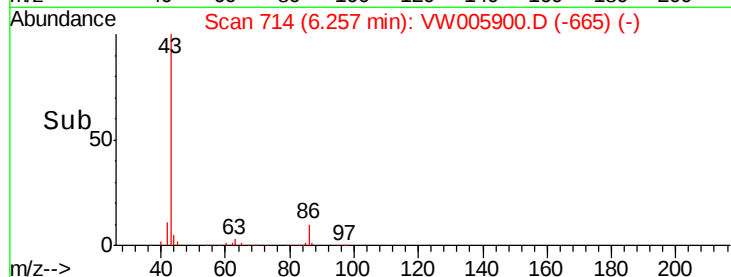
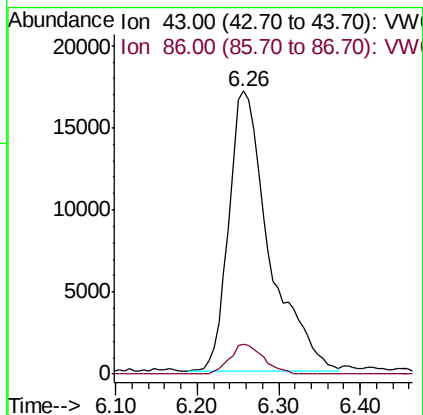
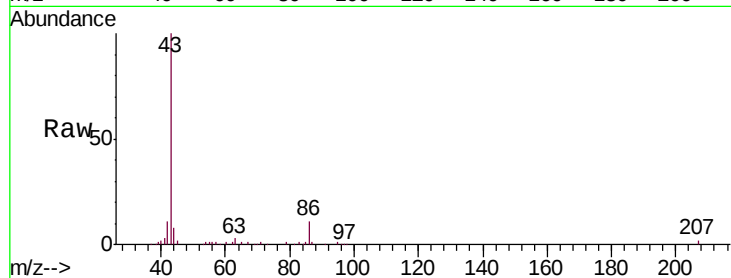
MDL-MDL-SOIL-03-QT4-2018DL

Tgt Ion: 43 Resp: 58787

Ion Ratio Lower Upper

43 100

86 10.8 8.2 12.4



#24

1,1-Dichloroethane

Concen: 2.389 ug/l

RT: 6.22 min Scan# 708

Delta R.T. 0.01 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

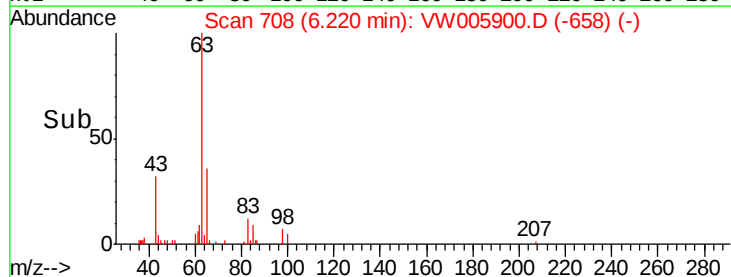
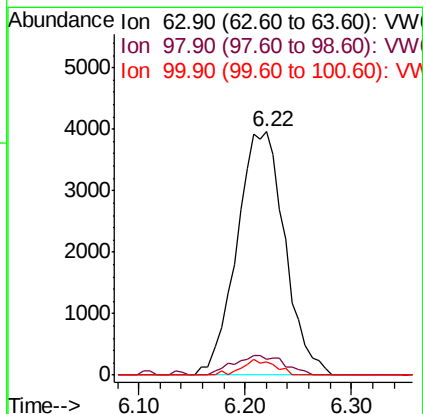
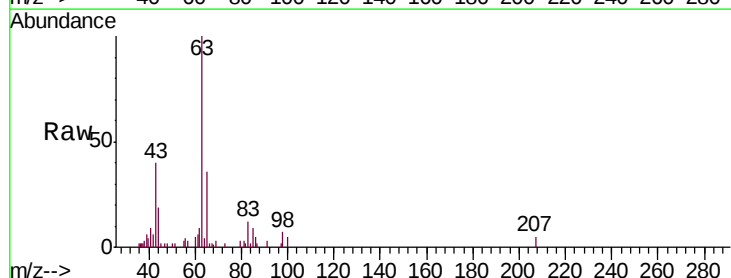
Tgt Ion: 63 Resp: 12494

Ion Ratio Lower Upper

63 100

98 6.7 3.5 10.6

100 5.3 2.4 7.1





#25

2-Butanone

Concen: 12.545 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.00 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

Instrument :

MSVOA_W

ClientSampleId :

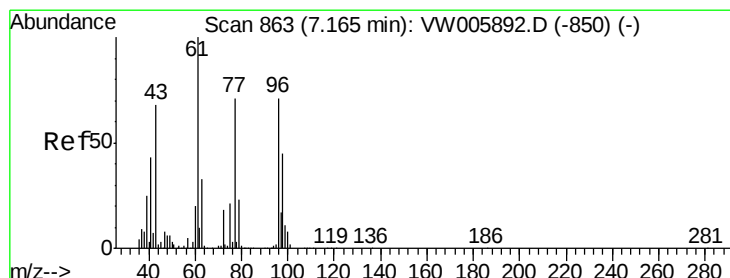
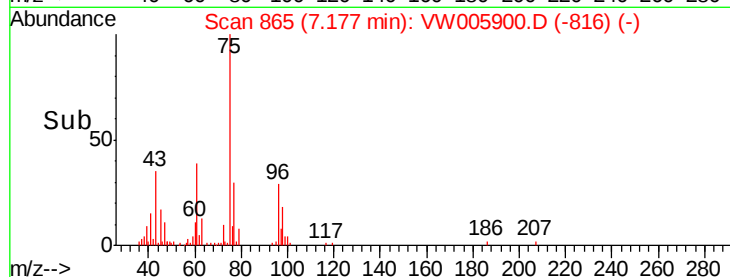
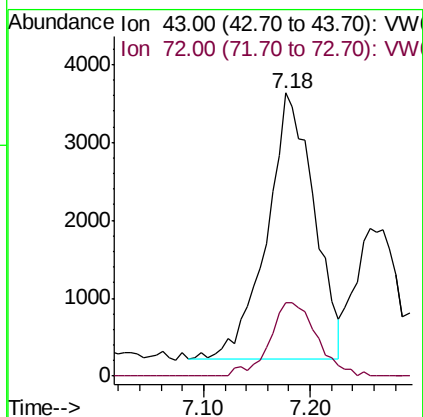
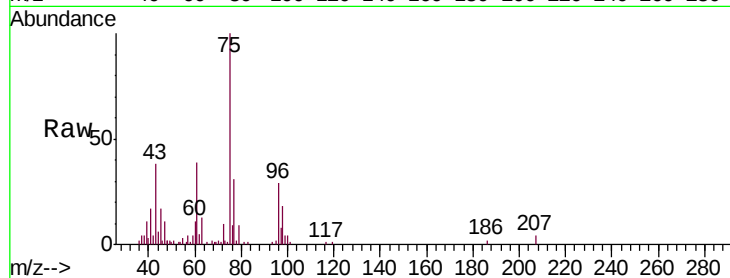
MDL-MDL-SOIL-03-QT4-2018DL

Tgt Ion: 43 Resp: 10538

Ion Ratio Lower Upper

43 100

72 27.3 21.0 31.4



#26

2,2-Dichloropropane

Concen: 3.183 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW005900.D

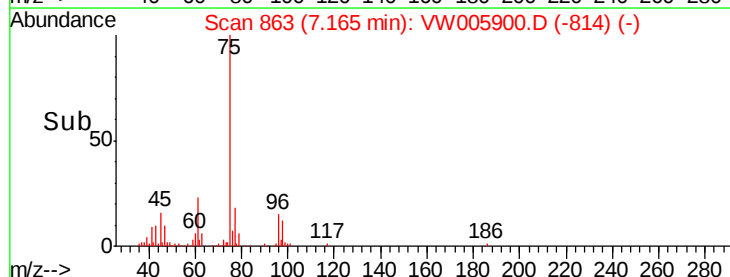
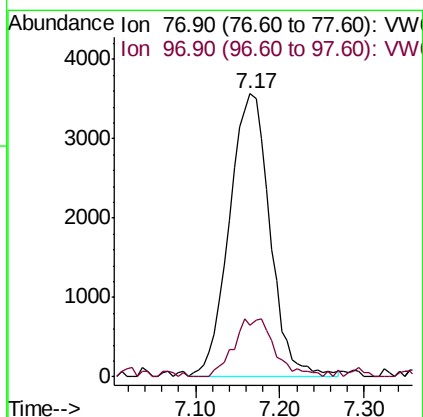
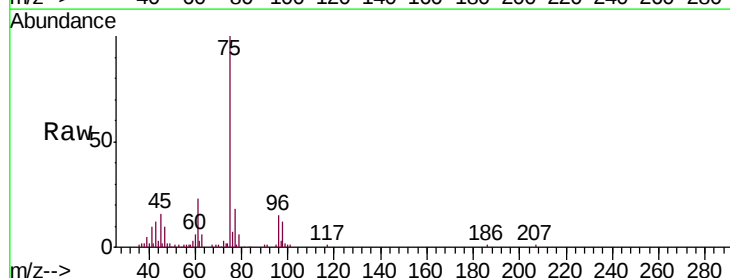
Acq: 08 Oct 2018 17:17

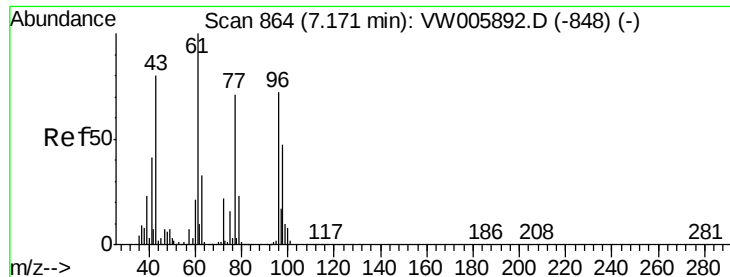
Tgt Ion: 77 Resp: 11717

Ion Ratio Lower Upper

77 100

97 20.5 11.9 35.7



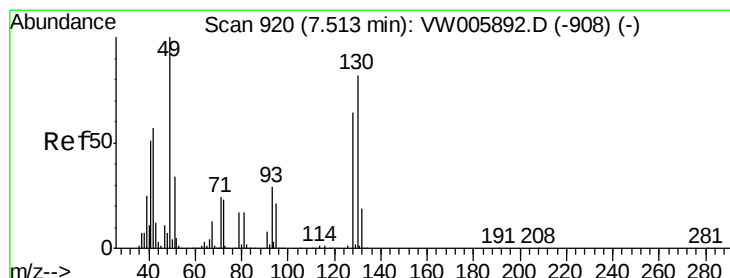
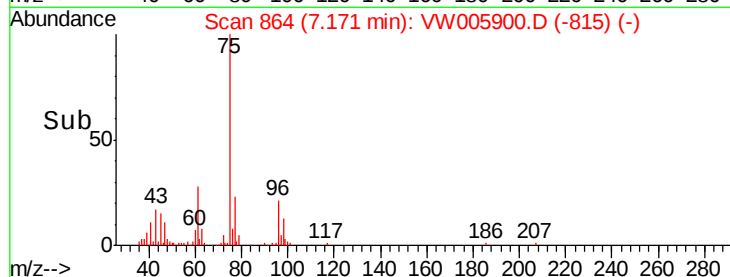
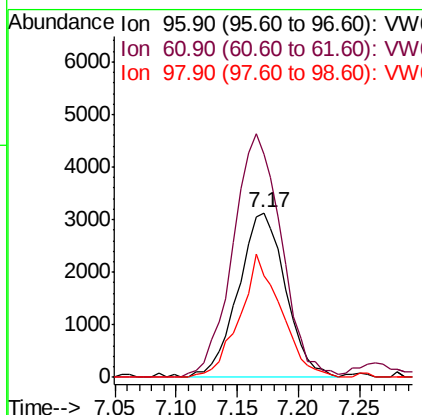
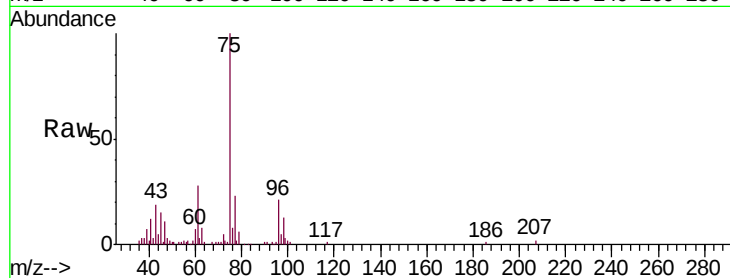


#27

cis-1,2-Dichloroethene
Concen: 2.551 ug/l
RT: 7.17 min Scan# 864
Delta R.T. 0.00 min
Lab File: VW005900.D
Acq: 08 Oct 2018 17:17

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018DL

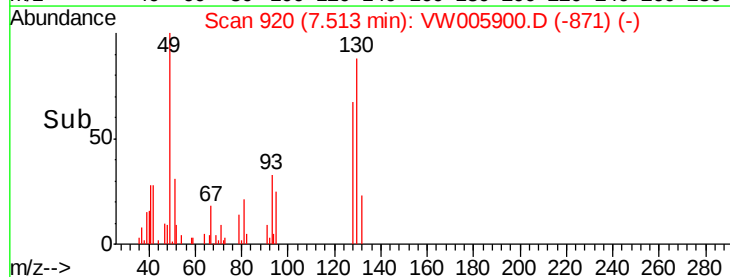
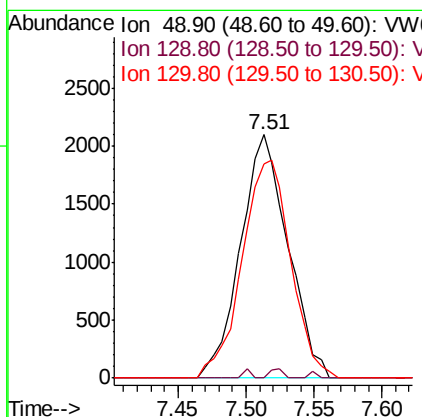
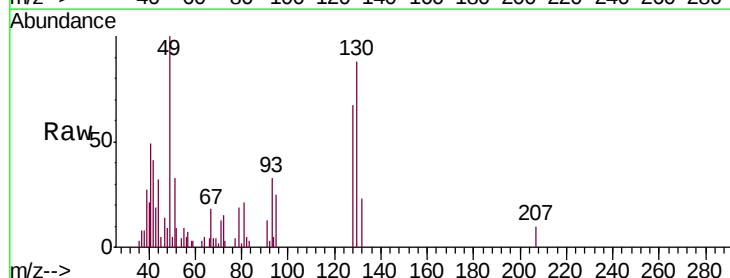
Tgt Ion: 96 Resp: 8430
Ion Ratio Lower Upper
96 100
61 151.4 0.0 284.0
98 65.5 0.0 129.8

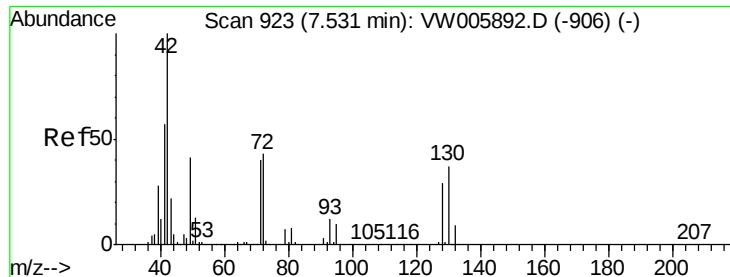


#28

Bromochloromethane
Concen: 2.648 ug/l
RT: 7.51 min Scan# 920
Delta R.T. 0.00 min
Lab File: VW005900.D
Acq: 08 Oct 2018 17:17

Tgt Ion: 49 Resp: 5113
Ion Ratio Lower Upper
49 100
129 1.1 0.0 5.0
130 92.0 66.9 100.3

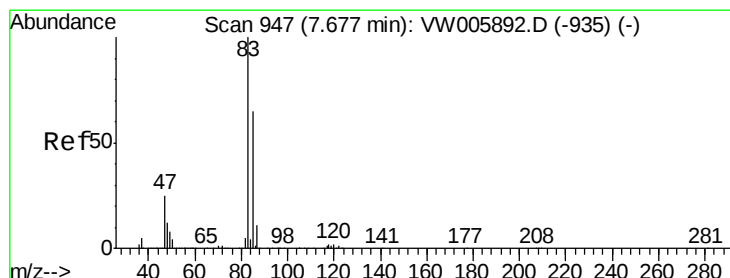
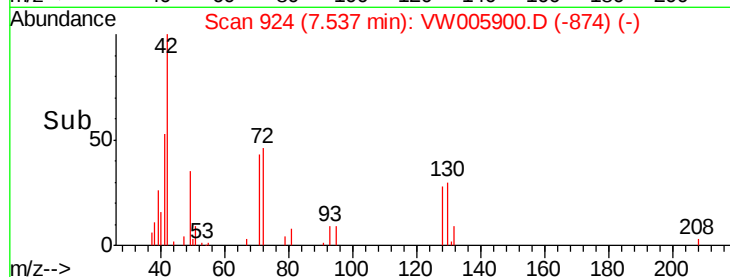
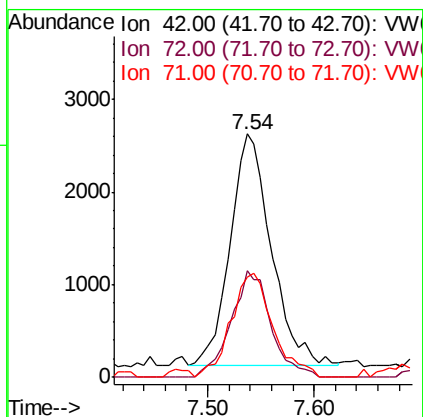
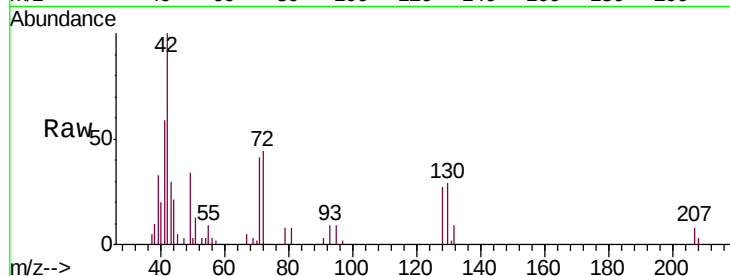




#29
Tetrahydrofuran
Concen: 12.629 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW005900.D
Acq: 08 Oct 2018 17:17

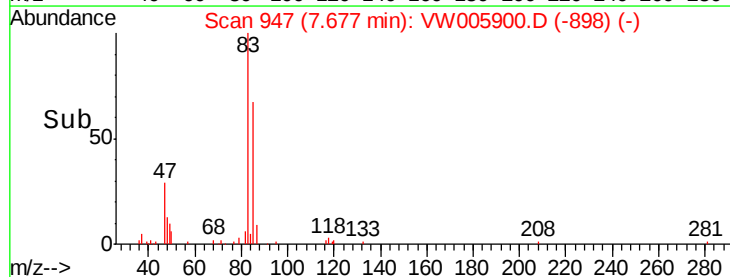
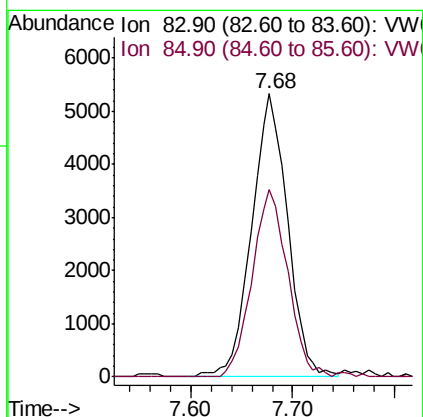
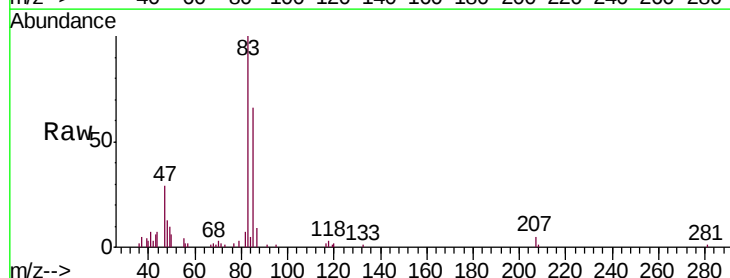
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018DL

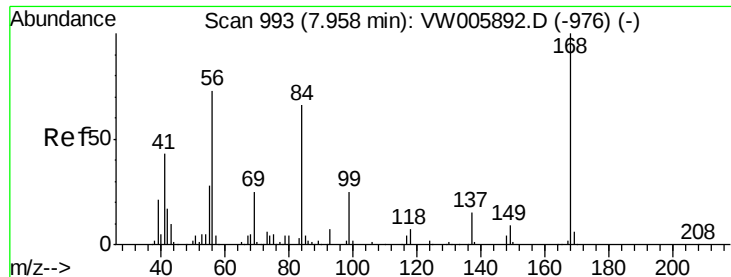
Tgt Ion: 42 Resp: 6706
Ion Ratio Lower Upper
42 100
72 44.8 34.6 51.8
71 46.2 32.6 49.0



#30
Chloroform
Concen: 2.429 ug/l
RT: 7.68 min Scan# 947
Delta R.T. 0.00 min
Lab File: VW005900.D
Acq: 08 Oct 2018 17:17

Tgt Ion: 83 Resp: 13048
Ion Ratio Lower Upper
83 100
85 66.1 51.6 77.4

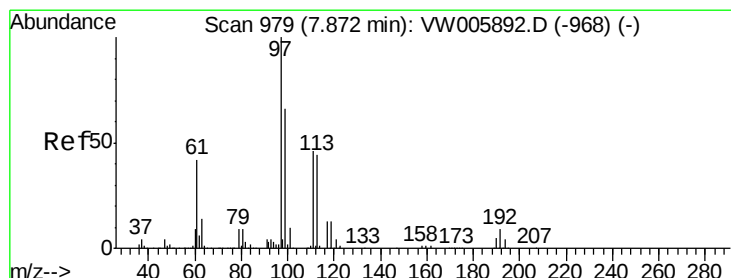
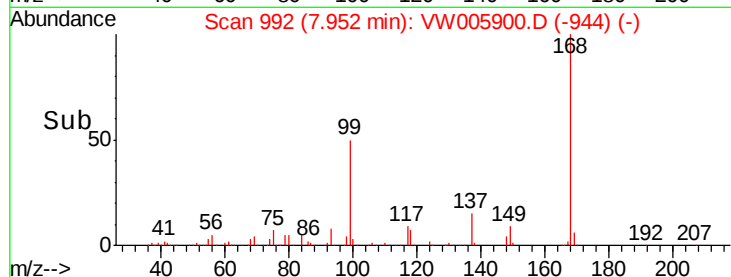
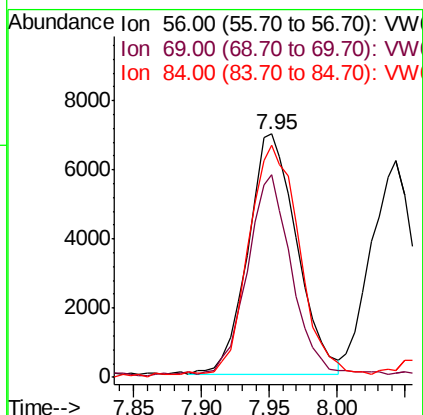
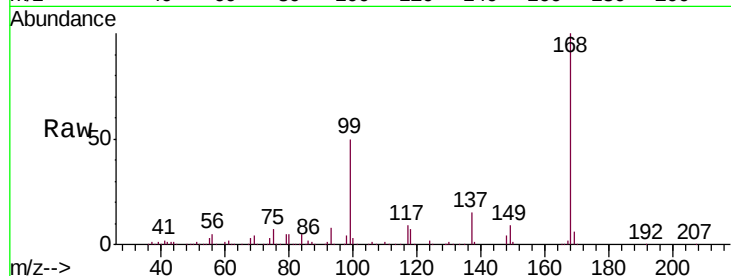




#31
Cyclohexane
Concen: 3.387 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW005900.D
Acq: 08 Oct 2018 17:17

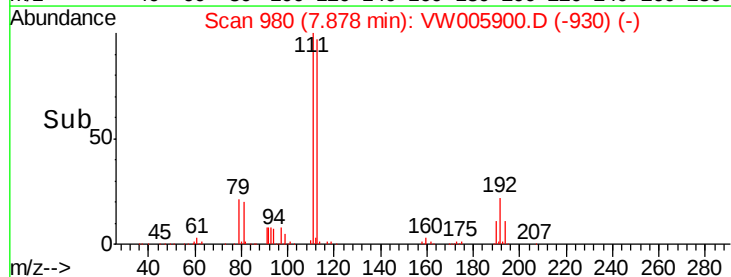
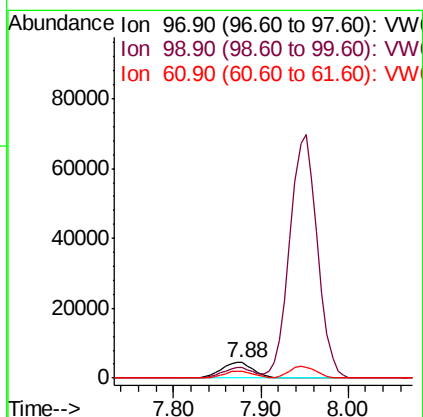
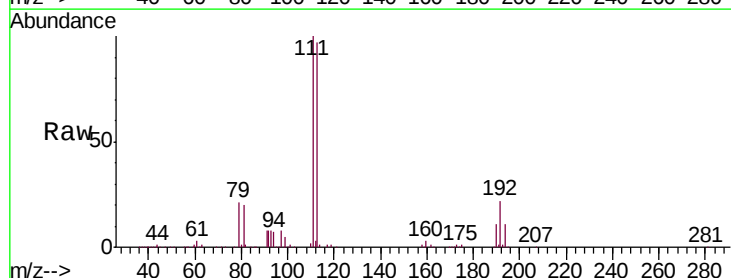
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018DL

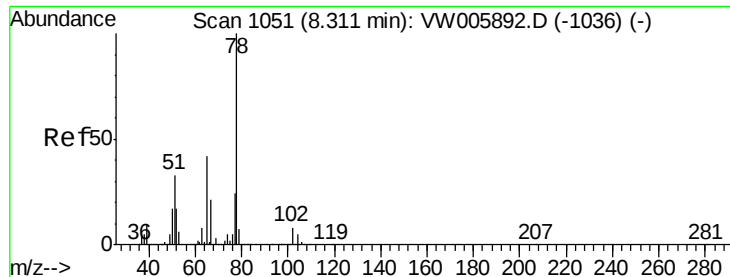
Tgt Ion: 56 Resp: 17532
Ion Ratio Lower Upper
56 100
69 82.4 27.9 41.9#
84 93.8 72.3 108.5



#32
1,1,1-Trichloroethane
Concen: 2.473 ug/l
RT: 7.88 min Scan# 980
Delta R.T. 0.01 min
Lab File: VW005900.D
Acq: 08 Oct 2018 17:17

Tgt Ion: 97 Resp: 11833
Ion Ratio Lower Upper
97 100
99 62.8 51.6 77.4
61 40.1 34.5 51.7

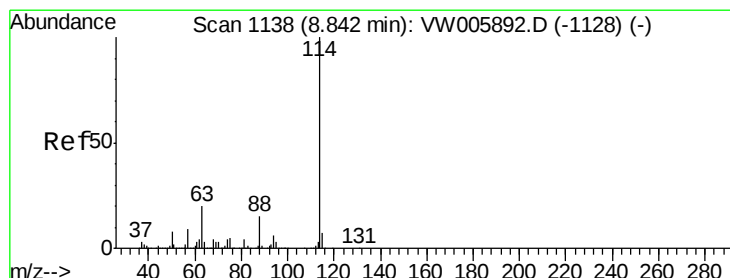
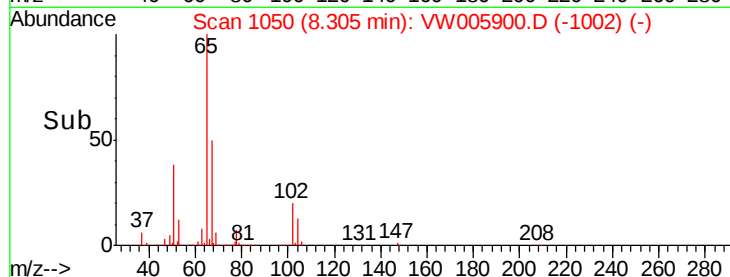
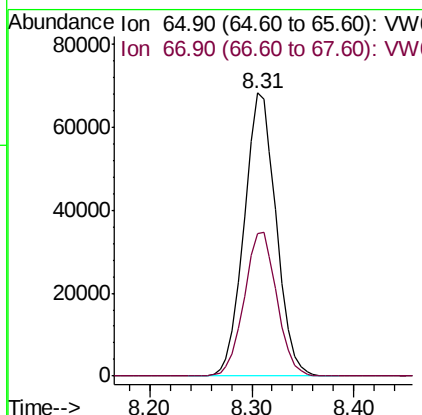
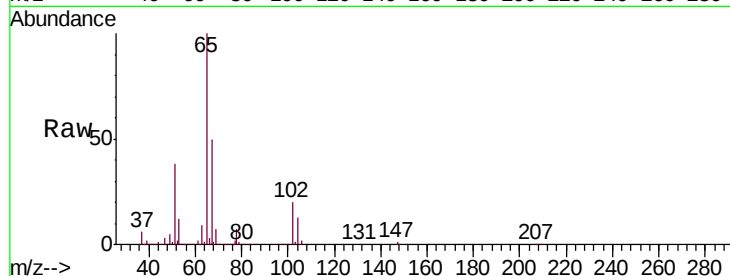




#33
 1,2-Dichloroethane-d4
 Concen: 50.313 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.01 min
 Lab File: VW005900.D
 Acq: 08 Oct 2018 17:17

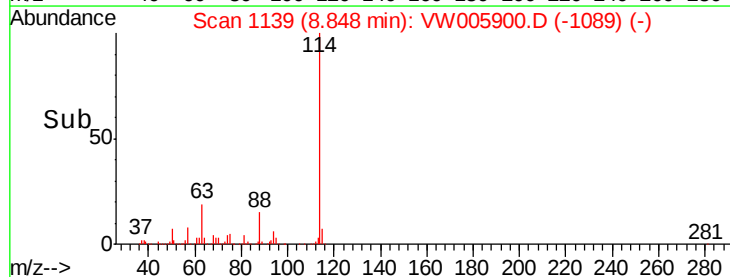
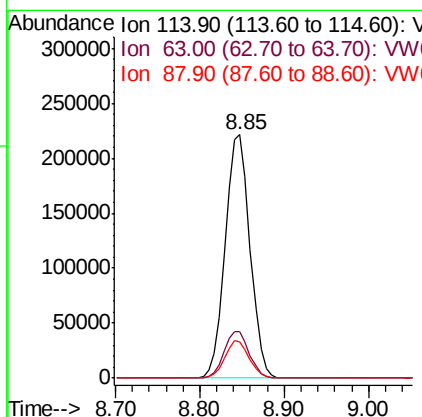
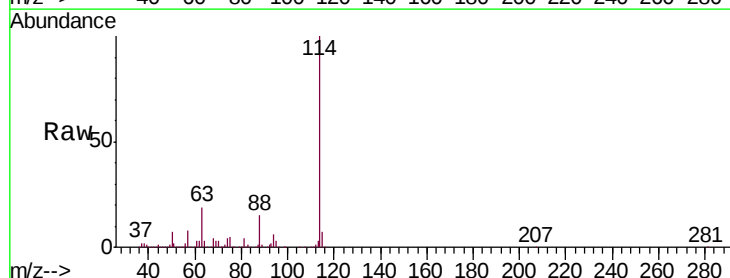
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018DL

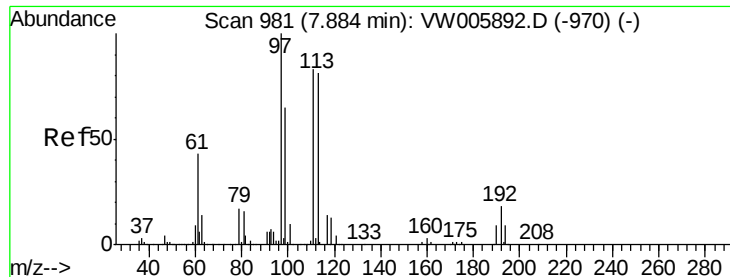
Tgt Ion: 65 Resp: 148758
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. 0.01 min
 Lab File: VW005900.D
 Acq: 08 Oct 2018 17:17

Tgt Ion: 114 Resp: 444729
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 39.2
 88 14.8 0.0 30.8

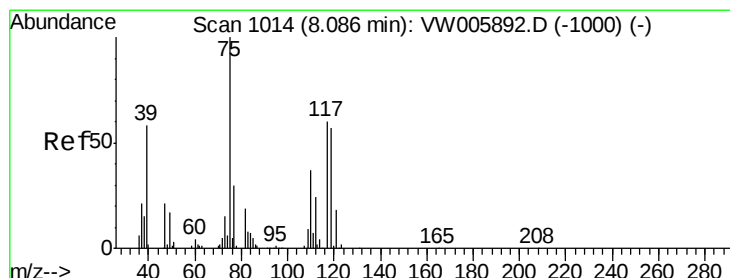
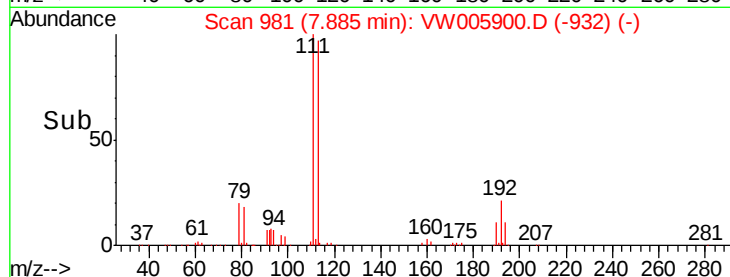
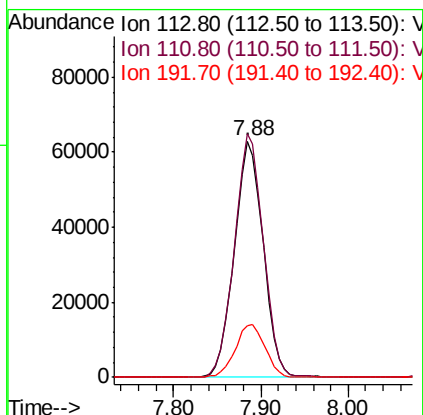
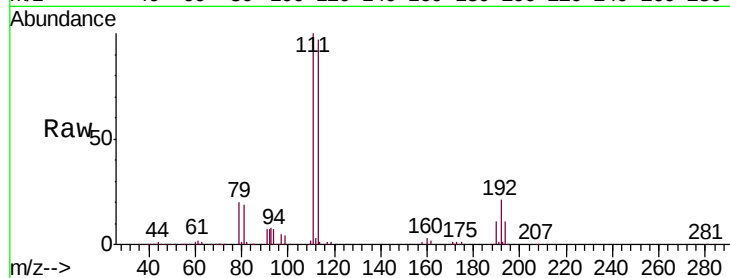




#35
 Dibromofluoromethane
 Concen: 50.881 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW005900.D
 Acq: 08 Oct 2018 17:17

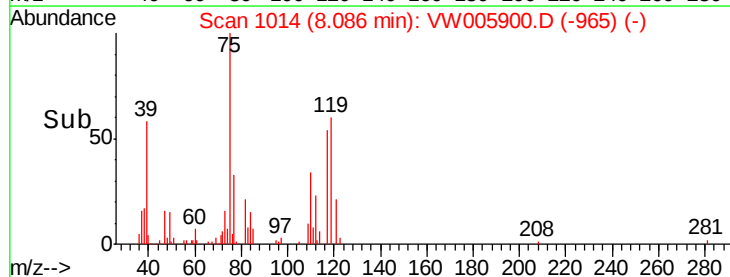
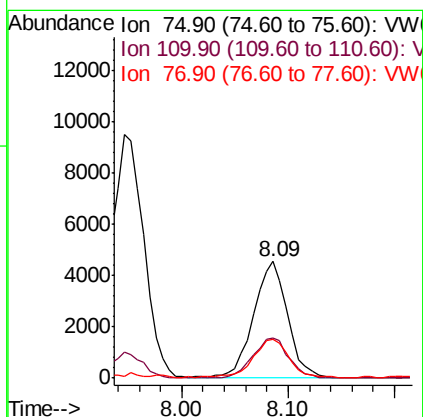
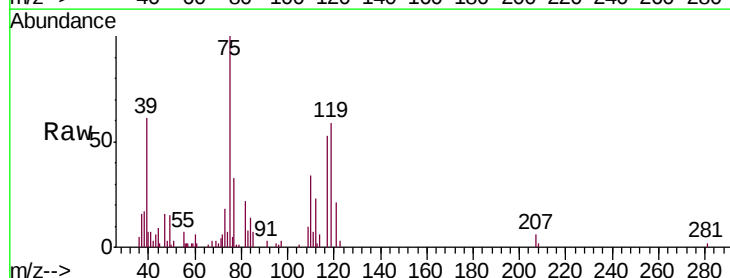
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018DL

Tgt Ion: 113 Resp: 144472
 Ion Ratio Lower Upper
 113 100
 111 103.4 82.0 123.0
 192 23.2 18.3 27.5



#36
 1,1-Dichloropropene
 Concen: 2.408 ug/l
 RT: 8.09 min Scan# 1014
 Delta R.T. 0.00 min
 Lab File: VW005900.D
 Acq: 08 Oct 2018 17:17

Tgt Ion: 75 Resp: 10260
 Ion Ratio Lower Upper
 75 100
 110 35.5 18.6 56.0
 77 35.9 24.7 37.1

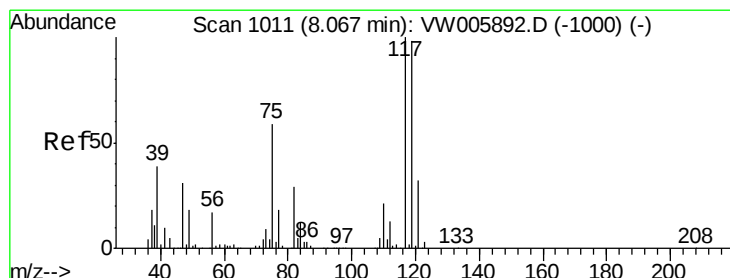
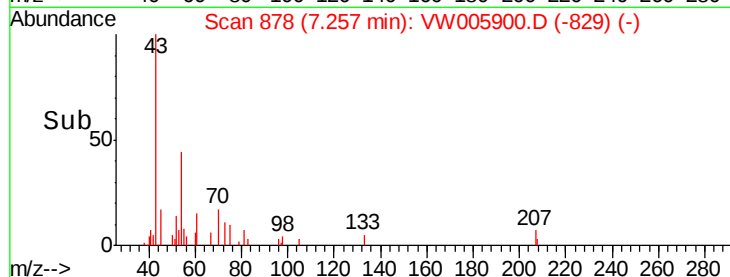
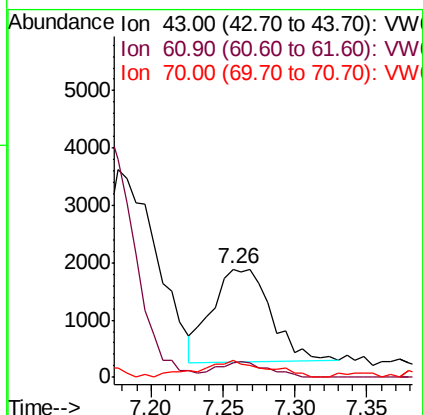
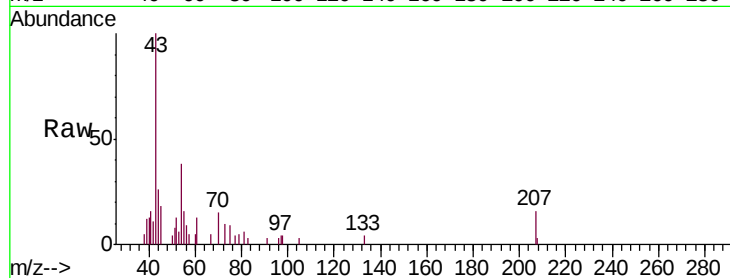




#37
 Ethyl Acetate
 Concen: 2.566 ug/l
 RT: 7.26 min Scan# 878
 Delta R.T. 0.00 min
 Lab File: VW005900.D
 Acq: 08 Oct 2018 17:17

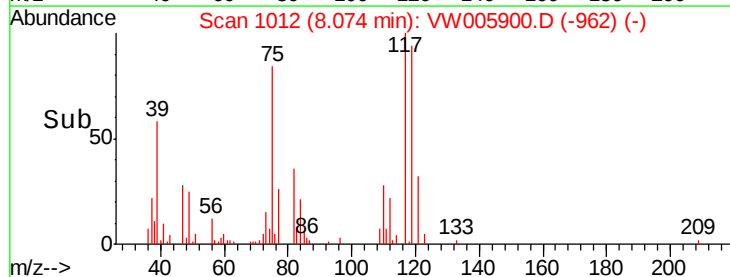
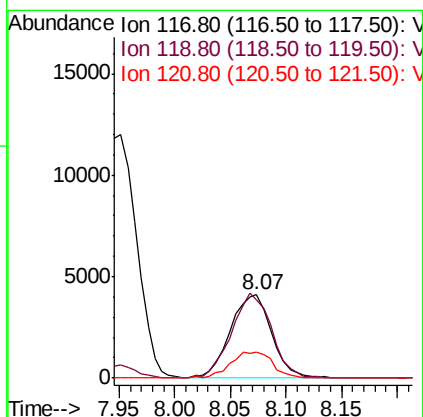
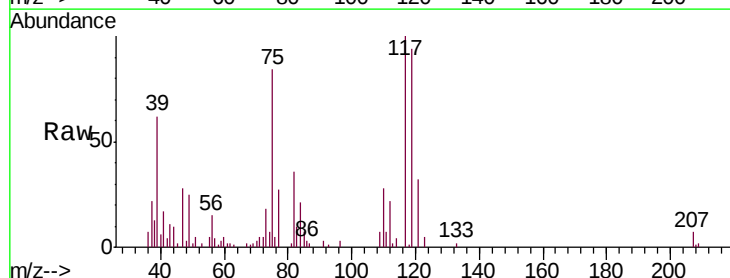
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018DL

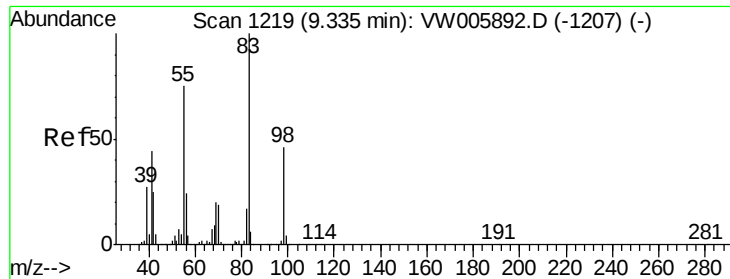
Tgt Ion: 43 Resp: 4631
 Ion Ratio Lower Upper
 43 100
 61 14.3 10.6 16.0
 70 20.1 8.6 13.0#



#38
 Carbon Tetrachloride
 Concen: 2.316 ug/l
 RT: 8.07 min Scan# 1012
 Delta R.T. 0.01 min
 Lab File: VW005900.D
 Acq: 08 Oct 2018 17:17

Tgt Ion: 117 Resp: 10602
 Ion Ratio Lower Upper
 117 100
 119 93.8 78.6 117.8
 121 31.6 25.3 37.9

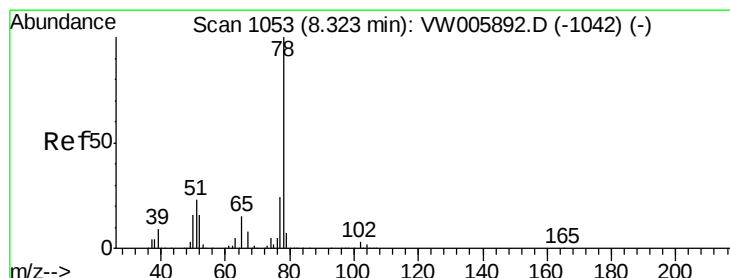
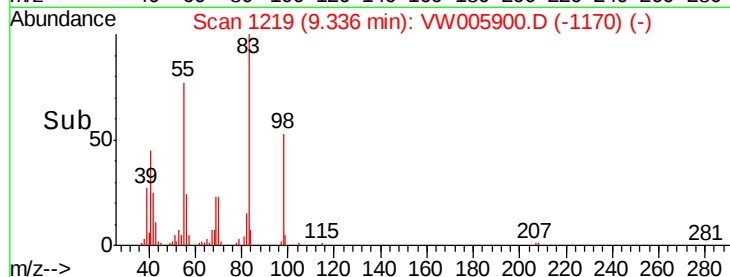
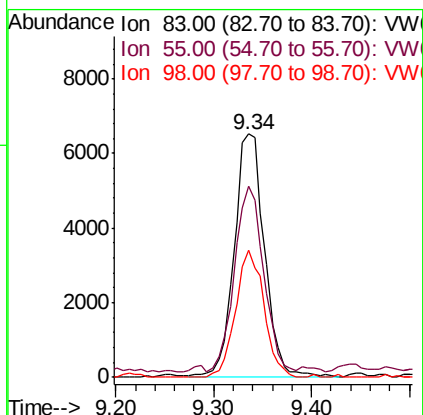
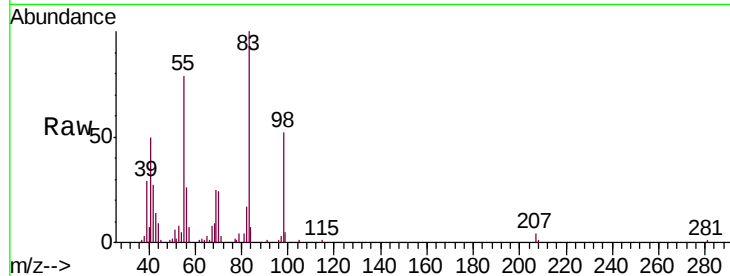




#39
Methylcyclohexane
Concen: 2.503 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW005900.D
Acq: 08 Oct 2018 17:17

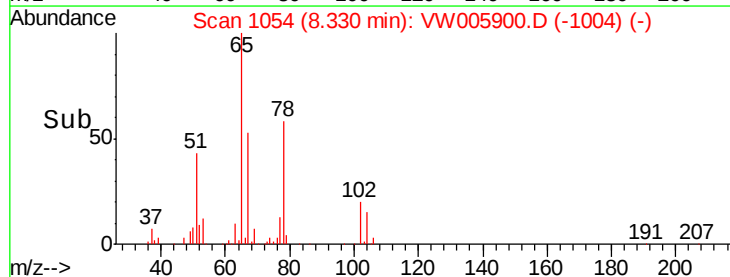
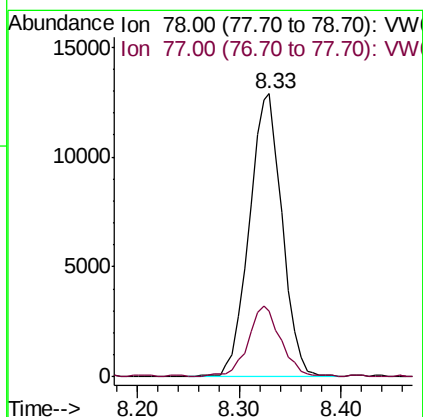
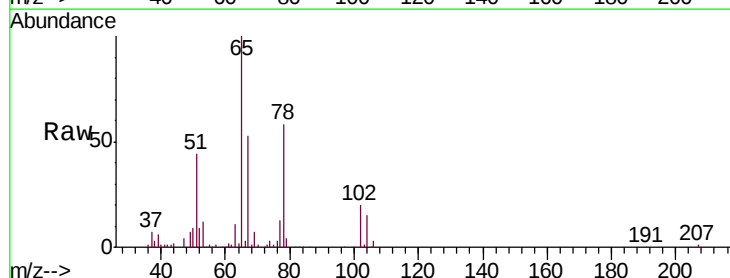
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018DL

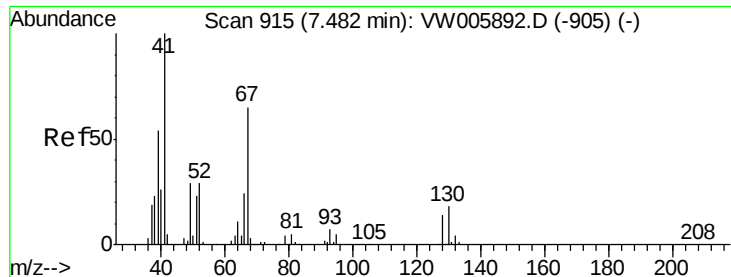
Tgt Ion: 83 Resp: 14066
Ion Ratio Lower Upper
83 100
55 75.9 59.8 89.6
98 52.4 37.1 55.7



#40
Benzene
Concen: 2.476 ug/l
RT: 8.33 min Scan# 1054
Delta R.T. 0.01 min
Lab File: VW005900.D
Acq: 08 Oct 2018 17:17

Tgt Ion: 78 Resp: 28873
Ion Ratio Lower Upper
78 100
77 23.4 19.1 28.7





#41

Methacrylonitrile

Concen: 2.107 ug/l

RT: 7.49 min Scan# 917

Delta R.T. 0.01 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018DL

Tgt Ion: 41 Resp: 2380

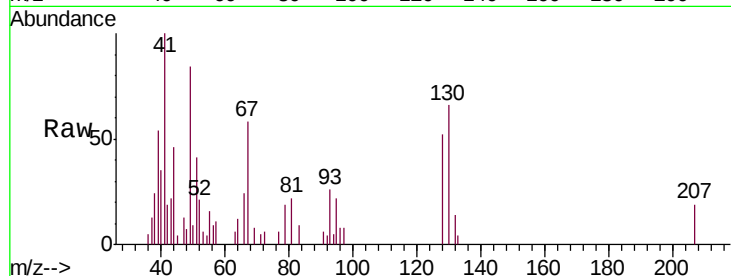
Ion Ratio Lower Upper

41 100

39 64.6 45.0 67.4

67 97.6 55.8 83.8#

52 38.2 25.3 37.9#



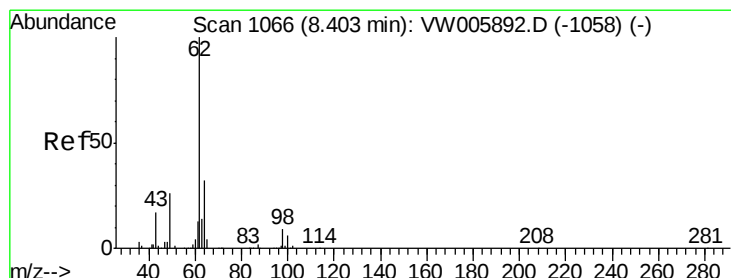
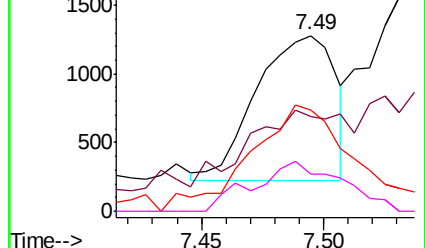
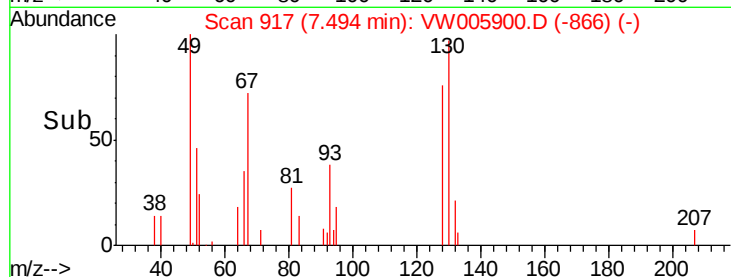
Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW

Time-->



#42

1,2-Dichloroethane

Concen: 2.367 ug/l

RT: 8.40 min Scan# 1066

Delta R.T. 0.00 min

Lab File: VW005900.D

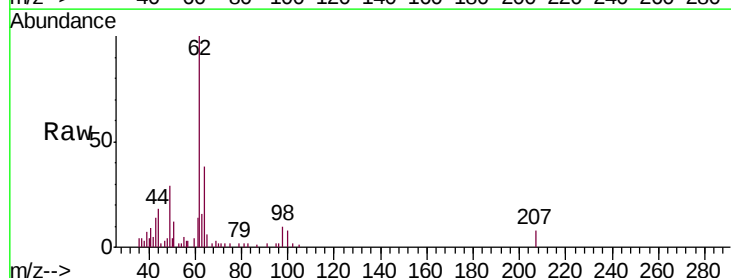
Acq: 08 Oct 2018 17:17

Tgt Ion: 62 Resp: 8341

Ion Ratio Lower Upper

62 100

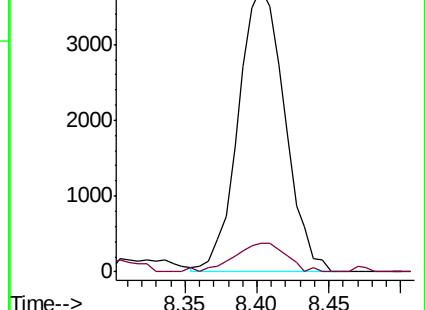
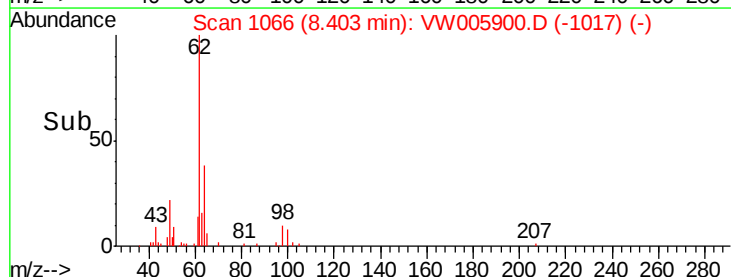
98 11.3 0.0 18.0

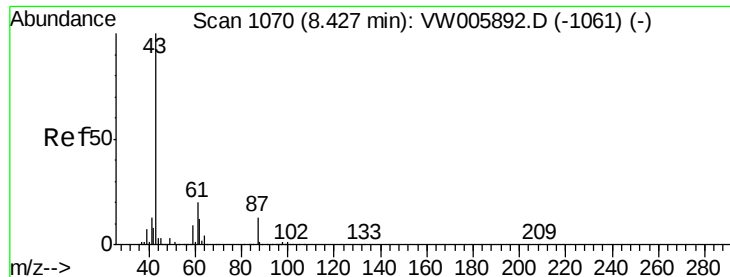


Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 97.90 (97.60 to 98.60): VW

Time-->





#43

Isopropyl Acetate

Concen: 2.318 ug/l

RT: 8.43 min Scan# 1071

Delta R.T. 0.01 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018DL

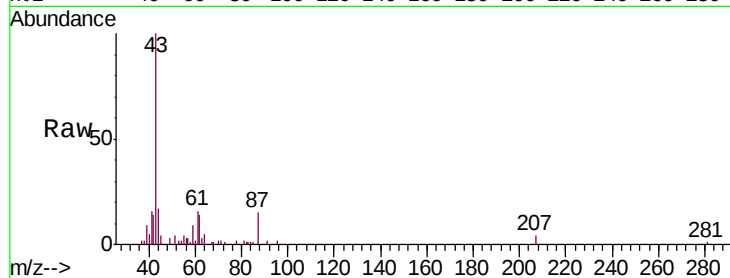
Tgt Ion: 43 Resp: 8738

Ion Ratio Lower Upper

43 100

61 28.7 23.1 34.7

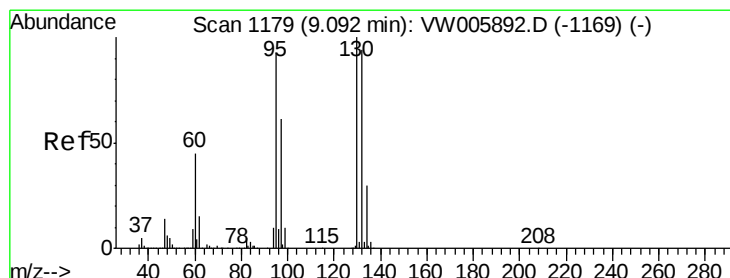
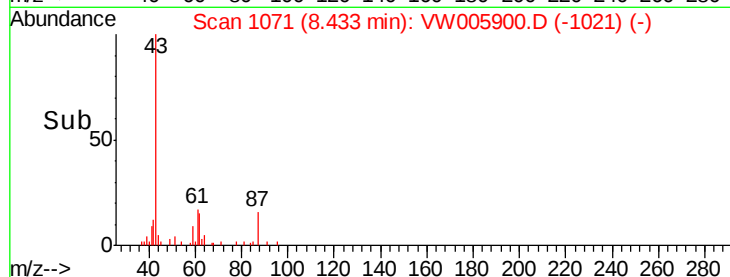
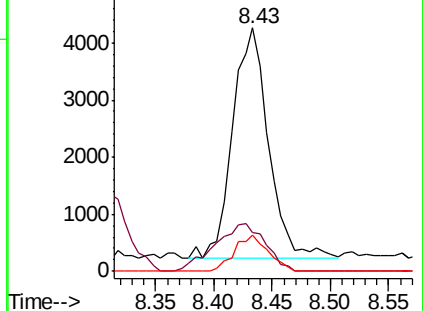
87 14.7 10.7 16.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 87.00 (86.70 to 87.70): VW



#44

Trichloroethene

Concen: 2.502 ug/l

RT: 9.10 min Scan# 1180

Delta R.T. 0.01 min

Lab File: VW005900.D

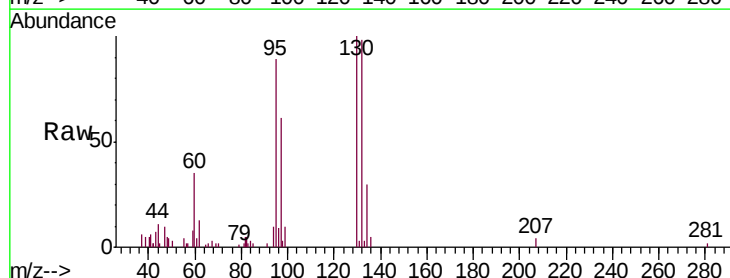
Acq: 08 Oct 2018 17:17

Tgt Ion: 130 Resp: 8467

Ion Ratio Lower Upper

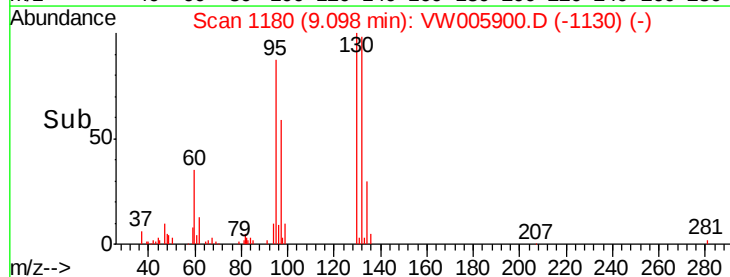
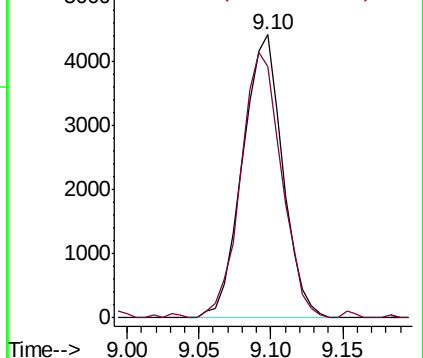
130 100

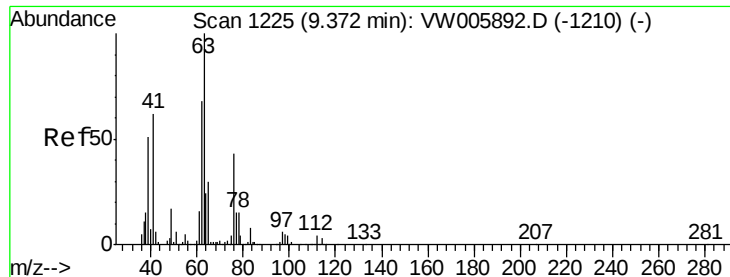
95 89.0 0.0 185.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW

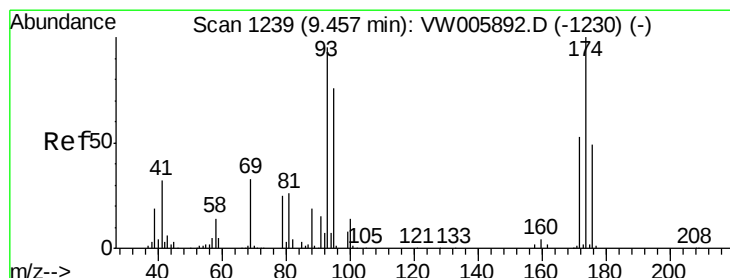
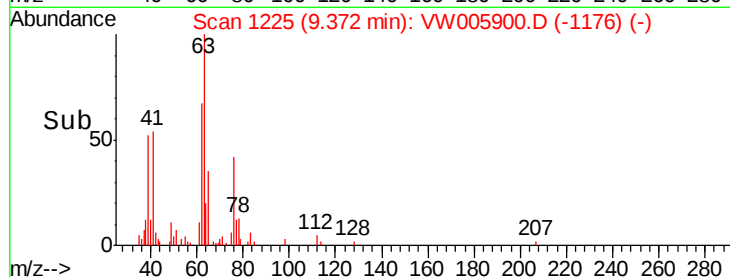
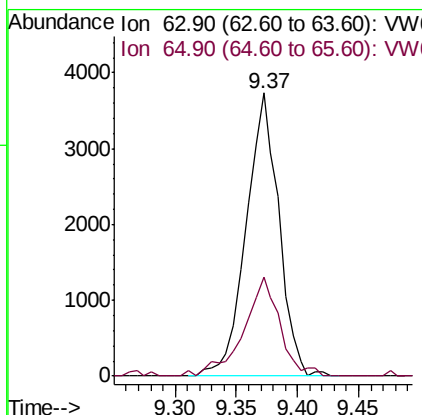
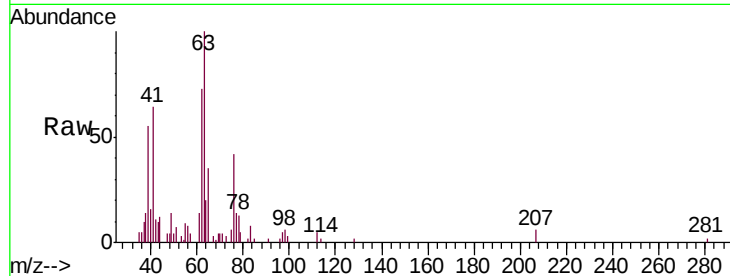




#45
 1,2-Dichloropropane
 Concen: 2.384 ug/l
 RT: 9.37 min Scan# 1225
 Delta R.T. 0.00 min
 Lab File: VW005900.D
 Acq: 08 Oct 2018 17:17

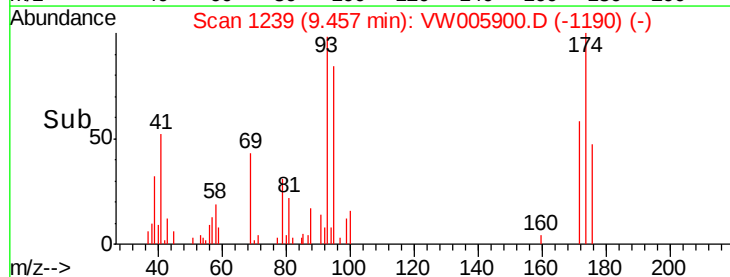
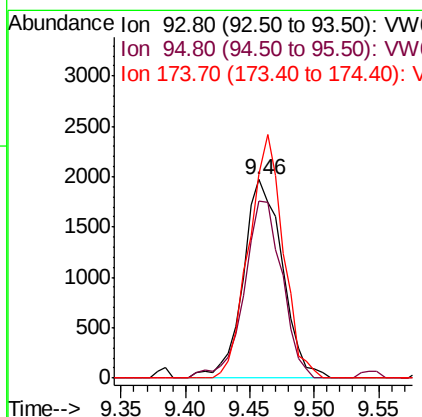
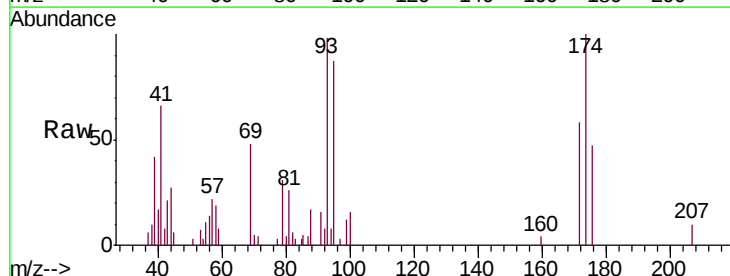
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018DL

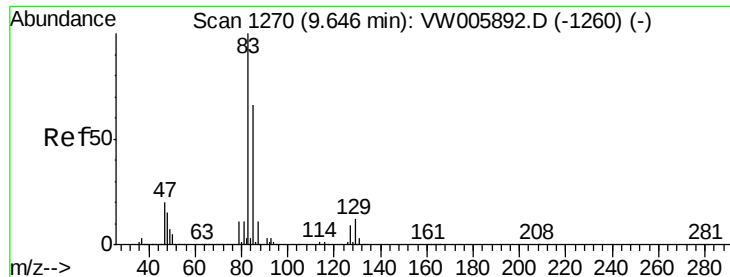
Tgt Ion: 63 Resp: 6960
 Ion Ratio Lower Upper
 63 100
 65 35.0 24.3 36.5



#46
 Dibromomethane
 Concen: 2.580 ug/l
 RT: 9.46 min Scan# 1239
 Delta R.T. 0.00 min
 Lab File: VW005900.D
 Acq: 08 Oct 2018 17:17

Tgt Ion: 93 Resp: 4139
 Ion Ratio Lower Upper
 93 100
 95 86.1 66.6 99.8
 174 107.4 90.4 135.6





#47

Bromodichloromethane

Concen: 2.386 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018DL

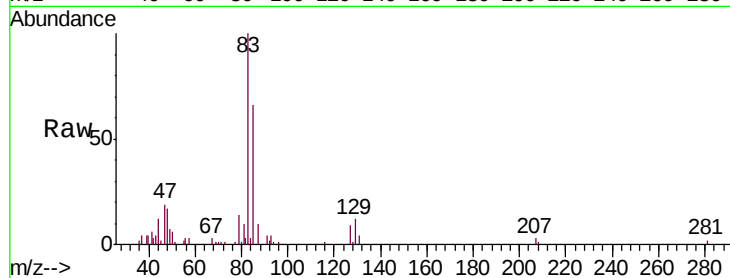
Tgt Ion: 83 Resp: 9635

Ion Ratio Lower Upper

83 100

85 65.6 53.0 79.6

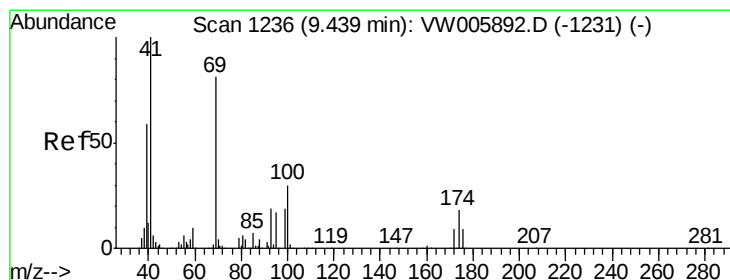
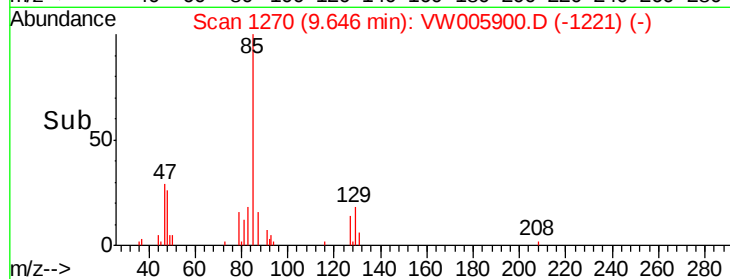
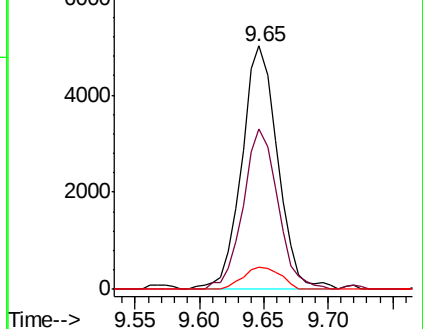
127 9.0 7.4 11.0



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 2.813 ug/l

RT: 9.44 min Scan# 1236

Delta R.T. 0.00 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

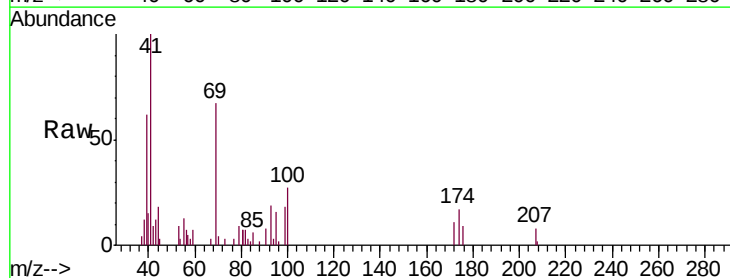
Tgt Ion: 41 Resp: 5052

Ion Ratio Lower Upper

41 100

69 71.8 68.7 103.1

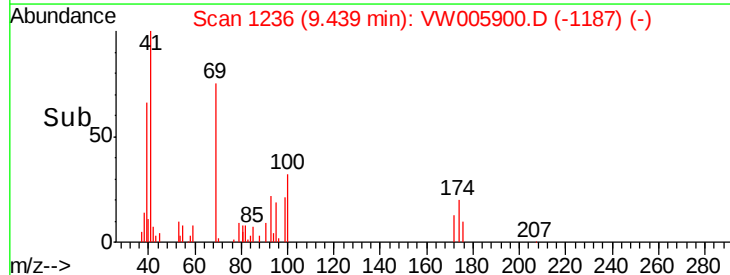
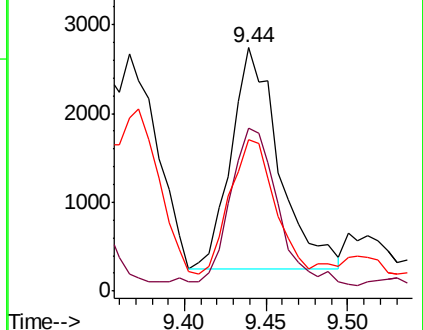
39 59.0 50.0 75.0

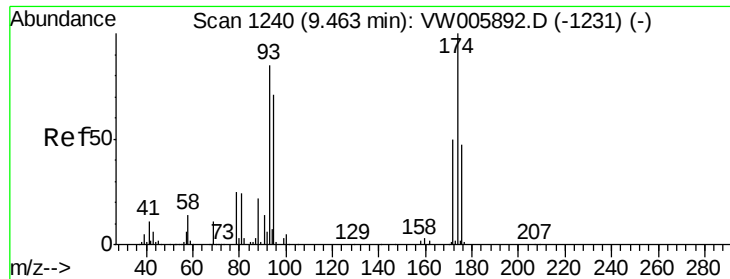


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW





#49

1,4-Dioxane

Concen: 48.416 ug/l

RT: 9.47 min Scan# 1241

Delta R.T. 0.01 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018DL

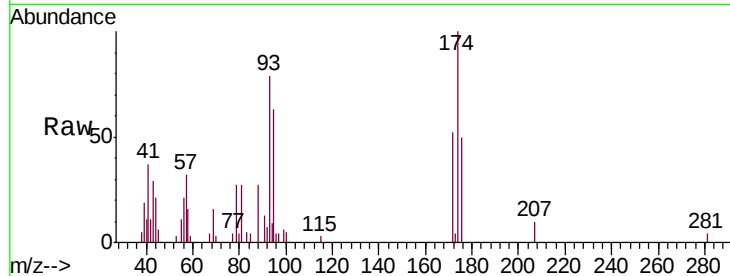
Tgt Ion: 88 Resp: 1180

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

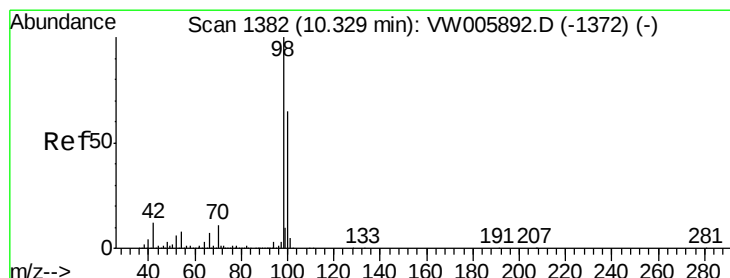
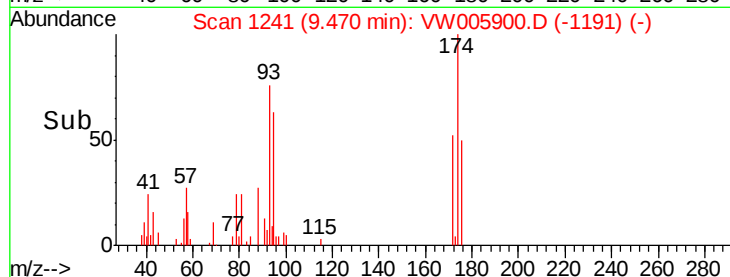
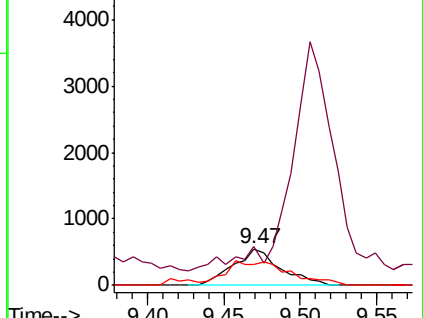
58 90.1 57.7 86.5#



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: 51.611 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VW005900.D

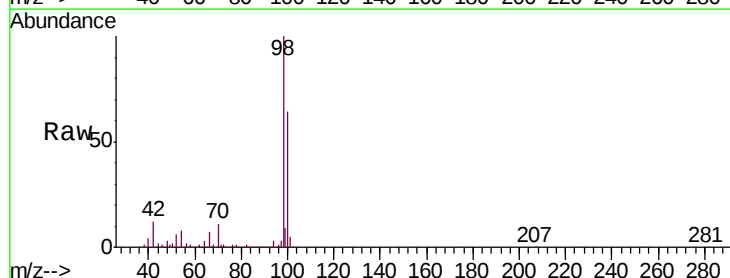
Acq: 08 Oct 2018 17:17

Tgt Ion: 98 Resp: 563823

Ion Ratio Lower Upper

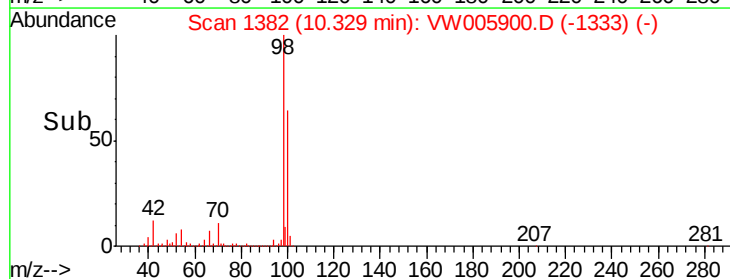
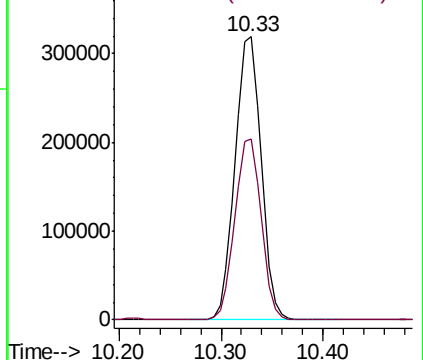
98 100

100 64.3 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

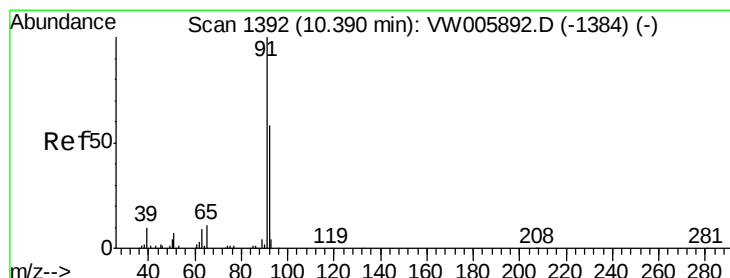
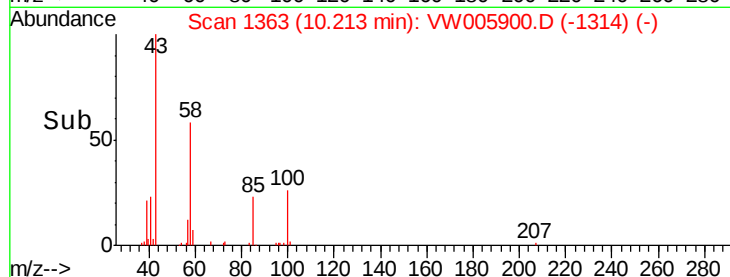
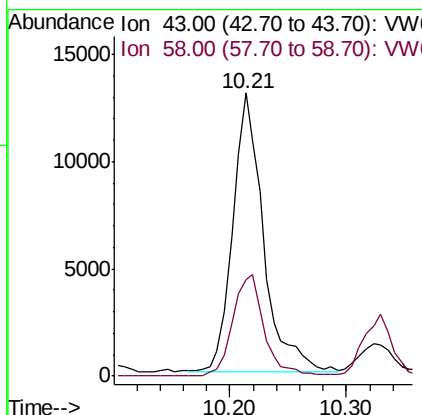
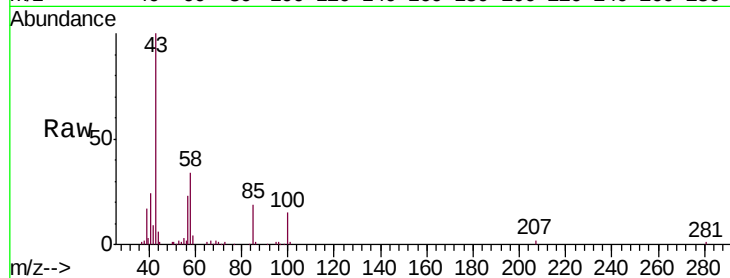




#51
 4-Methyl-2-Pentanone
 Concen: 13.087 ug/l
 RT: 10.21 min Scan# 1363
 Delta R.T. 0.00 min
 Lab File: VW005900.D
 Acq: 08 Oct 2018 17:17

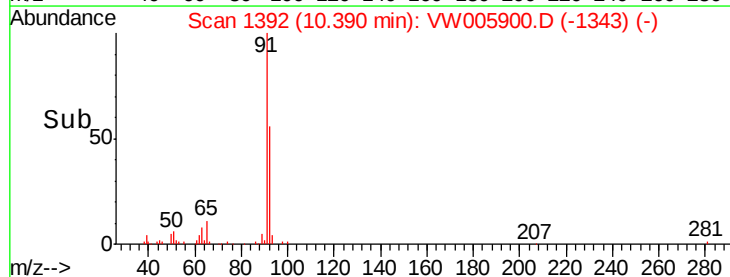
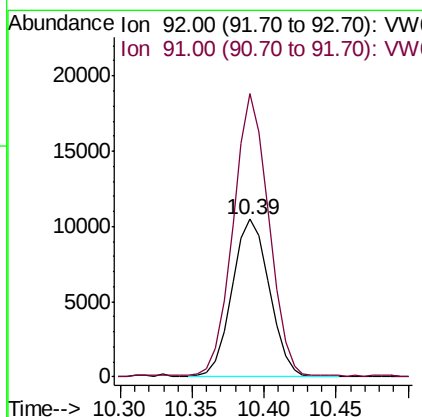
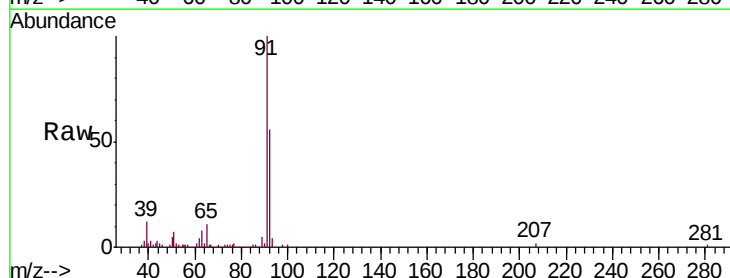
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018DL

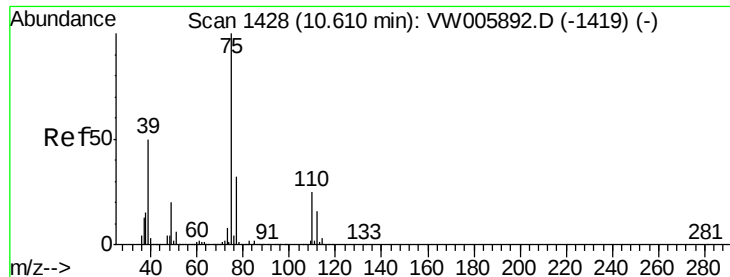
Tgt Ion: 43 Resp: 24023
 Ion Ratio Lower Upper
 43 100
 58 37.4 30.2 45.4



#52
 Toluene
 Concen: 2.481 ug/l
 RT: 10.39 min Scan# 1392
 Delta R.T. 0.00 min
 Lab File: VW005900.D
 Acq: 08 Oct 2018 17:17

Tgt Ion: 92 Resp: 19006
 Ion Ratio Lower Upper
 92 100
 91 169.0 138.2 207.4





#53

t-1,3-Dichloropropene

Concen: 2.268 ug/l

RT: 10.61 min Scan# 1428

Delta R.T. 0.00 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

Instrument :

MSVOA_W

ClientSampleId :

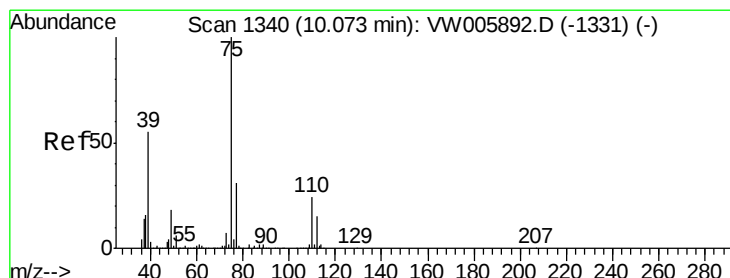
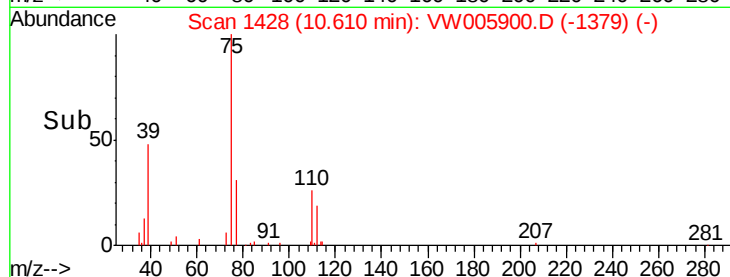
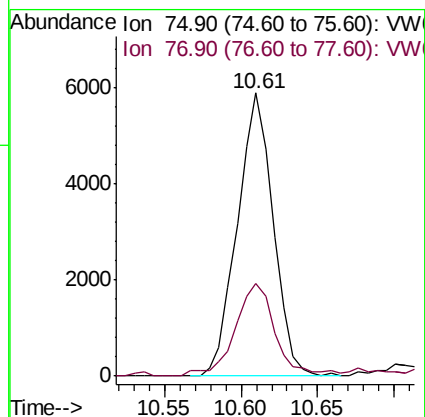
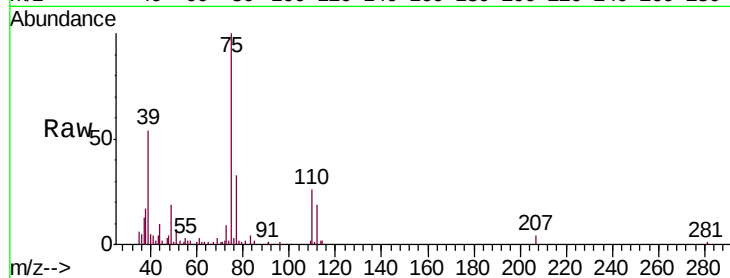
MDL-MDL-SOIL-03-QT4-2018DL

Tgt Ion: 75 Resp: 9569

Ion Ratio Lower Upper

75 100

77 31.6 25.4 38.2



#54

cis-1,3-Dichloropropene

Concen: 2.366 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

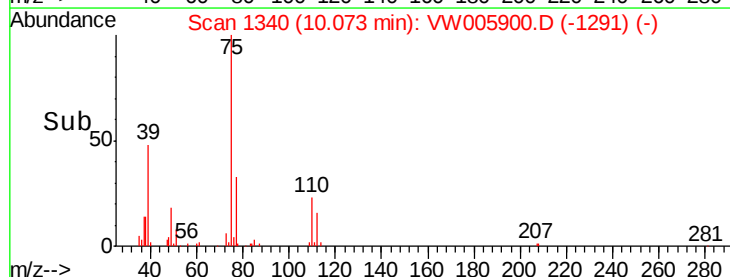
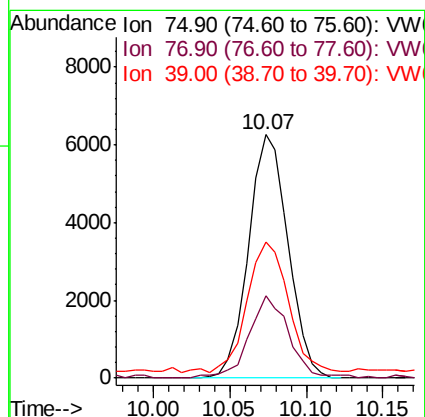
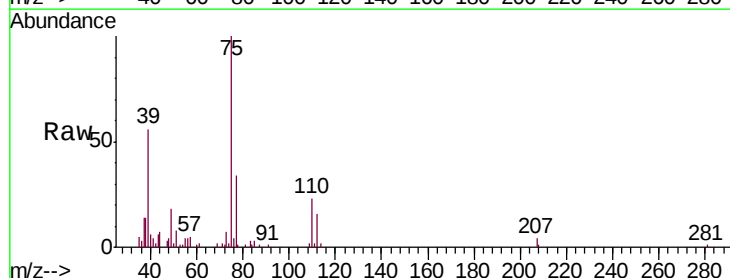
Tgt Ion: 75 Resp: 11223

Ion Ratio Lower Upper

75 100

77 34.0 24.6 37.0

39 53.1 44.2 66.4

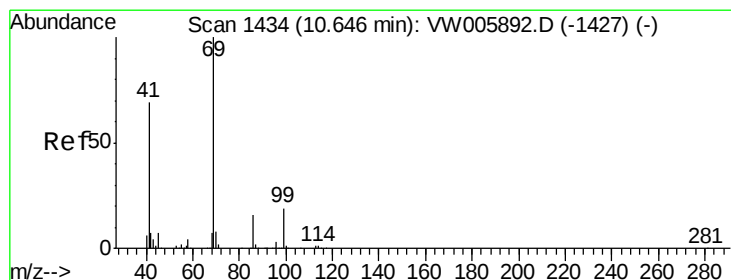
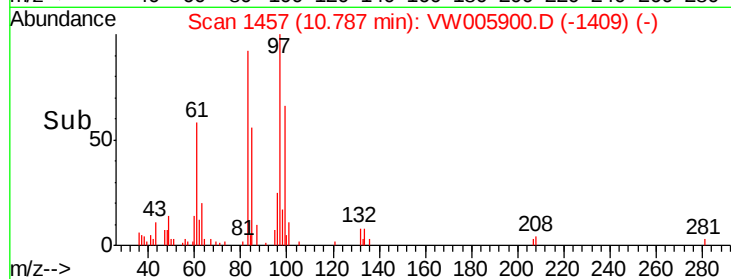
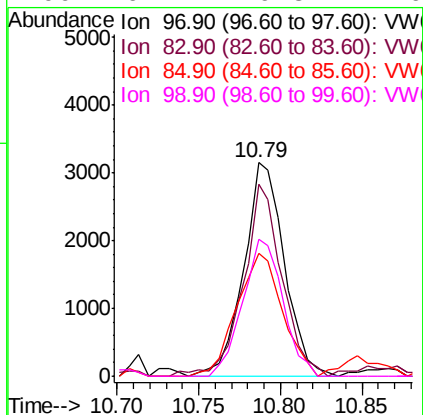
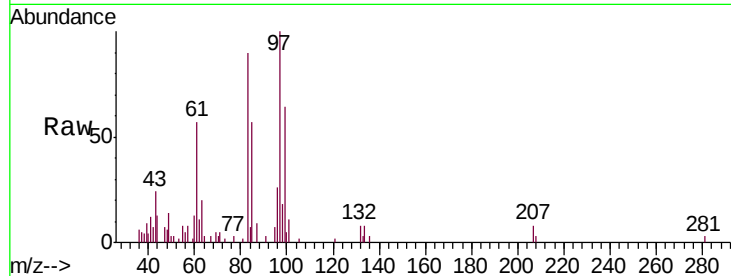




#55
 1,1,2-Trichloroethane
 Concen: 2.455 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. -0.01 min
 Lab File: VW005900.D
 Acq: 08 Oct 2018 17:17

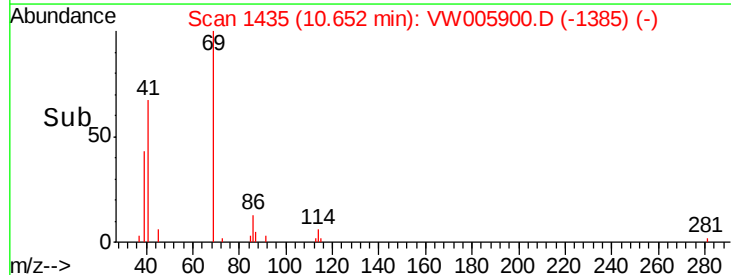
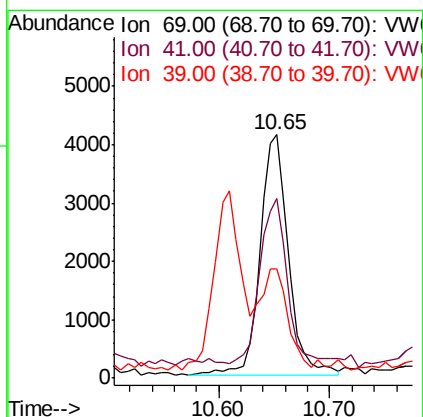
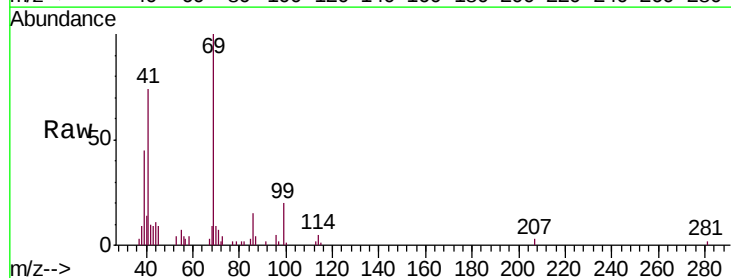
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018DL

Tgt Ion:	97	Resp:	5457
Ion	Ratio	Lower	Upper
97	100		
83	88.3	66.9	100.3
85	57.4	43.4	65.0
99	64.4	49.8	74.6



#56
 Ethyl methacrylate
 Concen: 2.433 ug/l
 RT: 10.65 min Scan# 1435
 Delta R.T. 0.01 min
 Lab File: VW005900.D
 Acq: 08 Oct 2018 17:17

Tgt Ion:	69	Resp:	7288
Ion	Ratio	Lower	Upper
69	100		
41	66.1	56.0	84.0
39	35.7	33.5	50.3

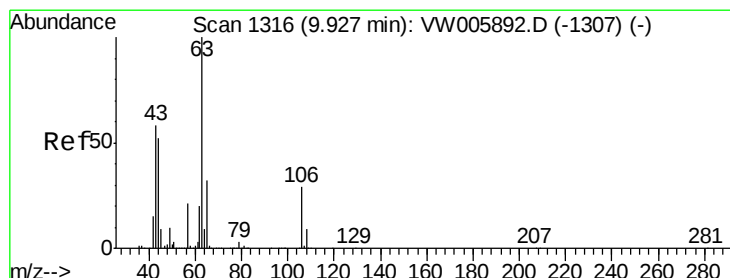
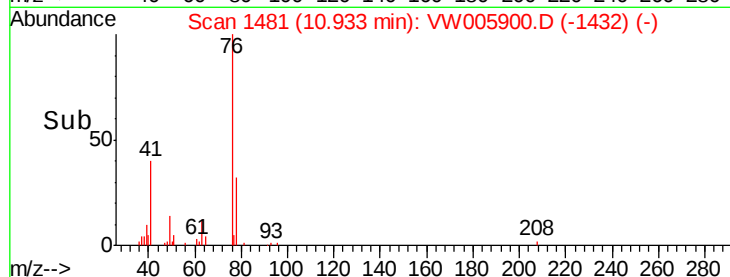
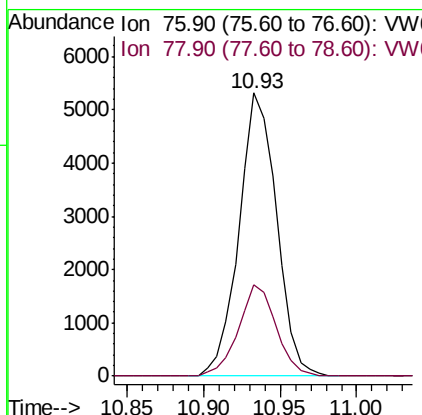
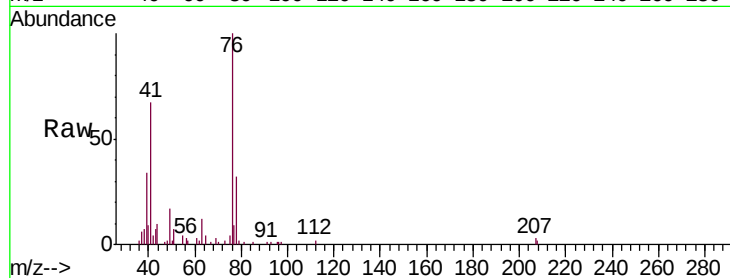




#57
 1,3-Dichloropropane
 Concen: 2.424 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. 0.00 min
 Lab File: VW005900.D
 Acq: 08 Oct 2018 17:17

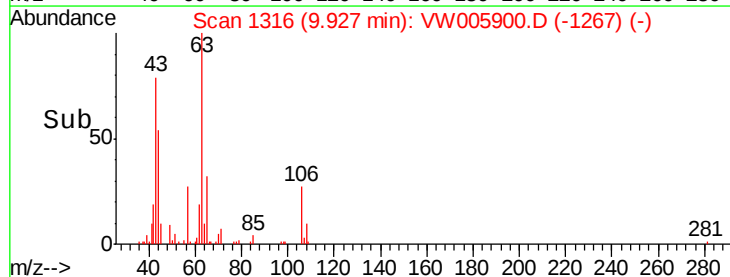
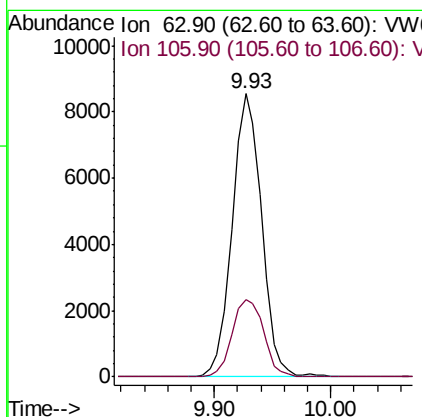
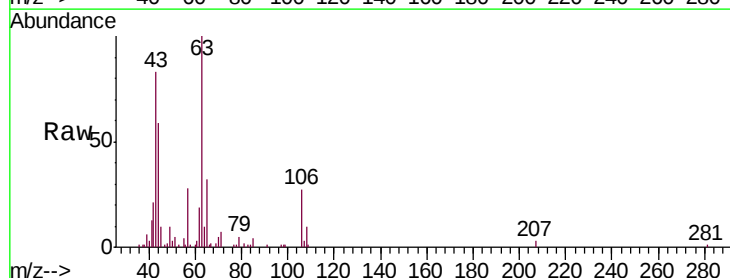
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018DL

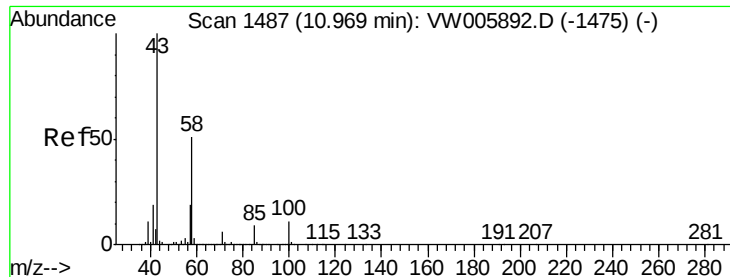
Tgt Ion: 76 Resp: 9061
 Ion Ratio Lower Upper
 76 100
 78 32.3 25.8 38.6



#58
 2-Chloroethyl Vinyl ether
 Concen: 12.354 ug/l
 RT: 9.93 min Scan# 1316
 Delta R.T. 0.00 min
 Lab File: VW005900.D
 Acq: 08 Oct 2018 17:17

Tgt Ion: 63 Resp: 15057
 Ion Ratio Lower Upper
 63 100
 106 29.2 23.6 35.4

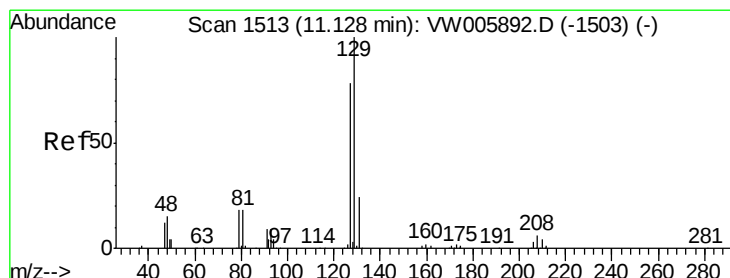
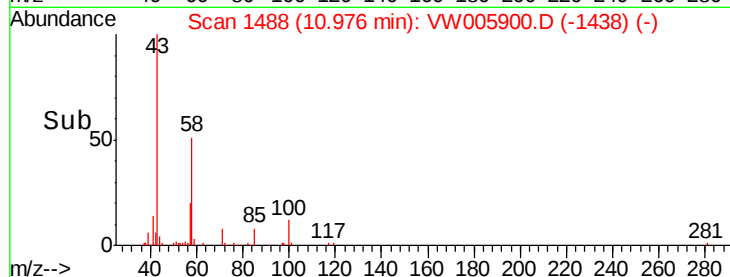
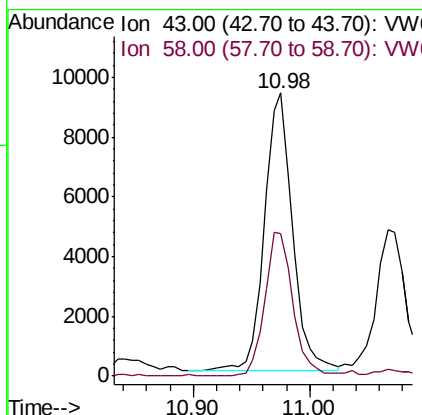
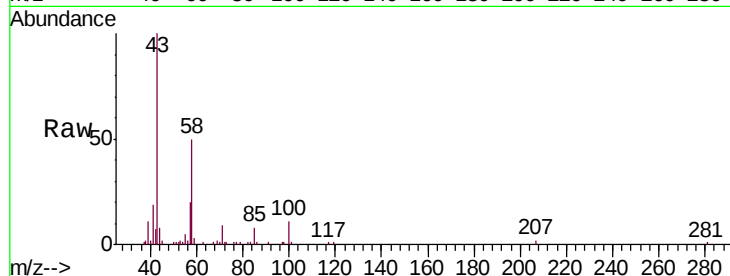




#59
2-Hexanone
Concen: 11.867 ug/l
RT: 10.98 min Scan# 1488
Delta R.T. 0.01 min
Lab File: VW005900.D
Acq: 08 Oct 2018 17:17

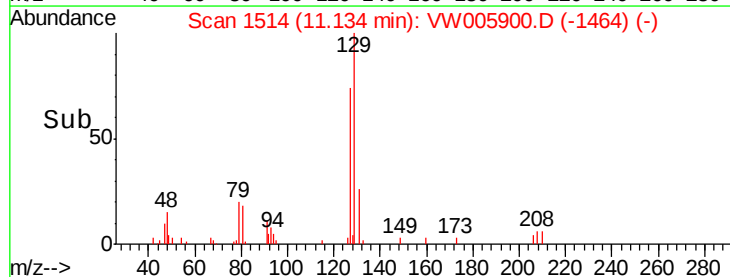
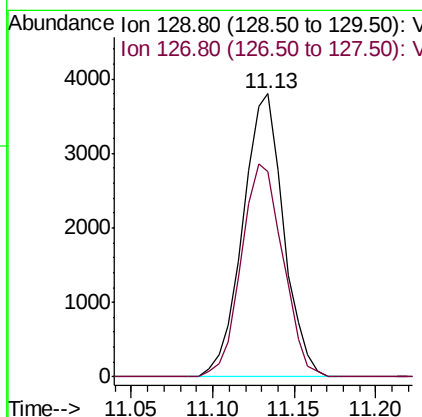
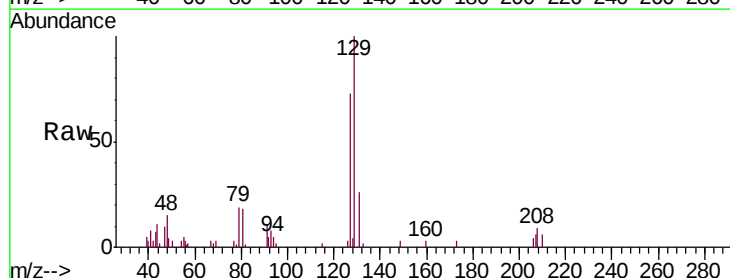
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018DL

Tgt Ion: 43 Resp: 15619
Ion Ratio Lower Upper
43 100
58 51.9 25.7 77.1



#60
Dibromochloromethane
Concen: 2.308 ug/l
RT: 11.13 min Scan# 1514
Delta R.T. 0.01 min
Lab File: VW005900.D
Acq: 08 Oct 2018 17:17

Tgt Ion: 129 Resp: 6618
Ion Ratio Lower Upper
129 100
127 76.9 38.5 115.5





#61

1,2-Dibromoethane

Concen: 2.411 ug/l

RT: 11.24 min Scan# 1531

Delta R.T. 0.00 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

Instrument :

MSVOA_W

ClientSampleId :

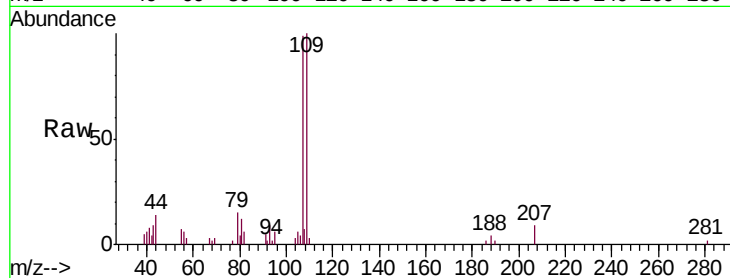
MDL-MDL-SOIL-03-QT4-2018DL

Tgt Ion: 107 Resp: 5354

Ion Ratio Lower Upper

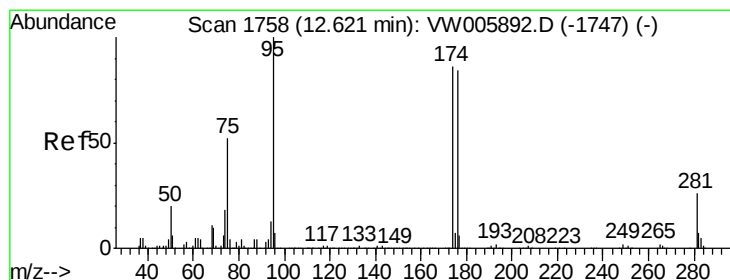
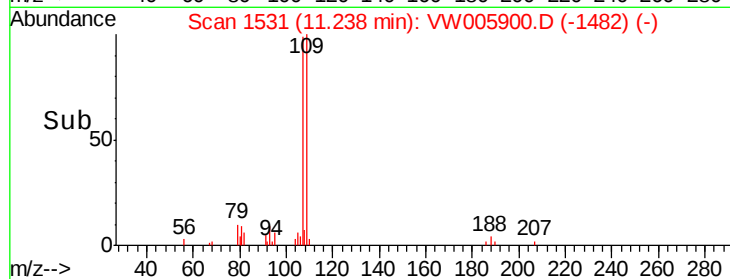
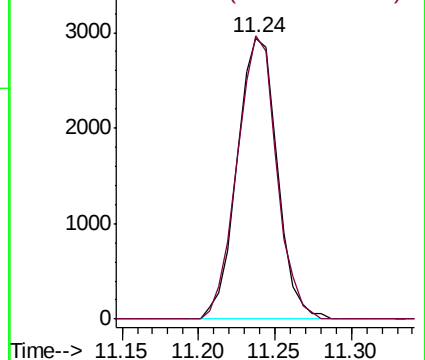
107 100

109 99.1 75.8 113.8



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 50.264 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

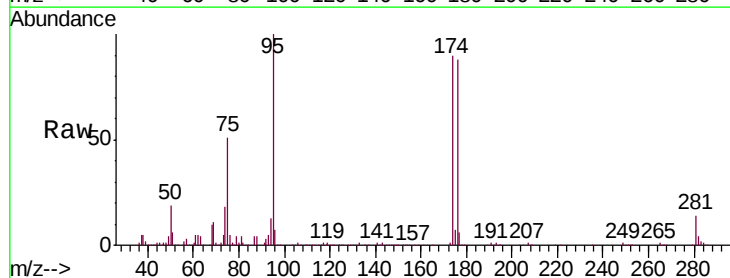
Tgt Ion: 95 Resp: 208915

Ion Ratio Lower Upper

95 100

174 91.7 0.0 176.4

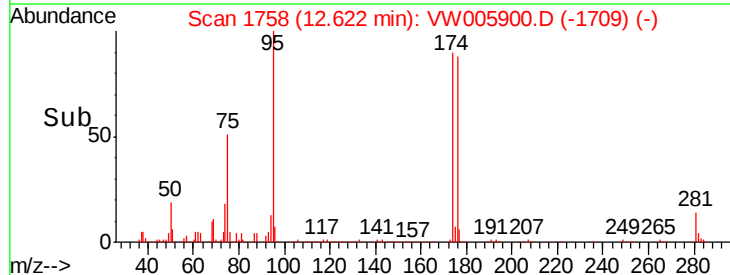
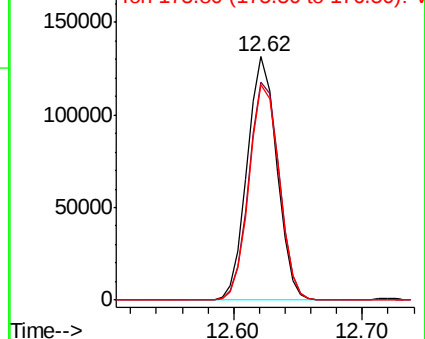
176 89.5 0.0 173.0



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

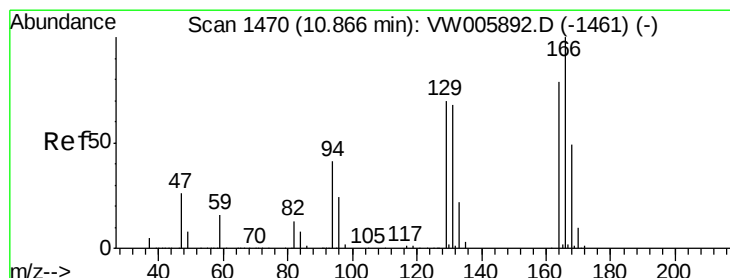
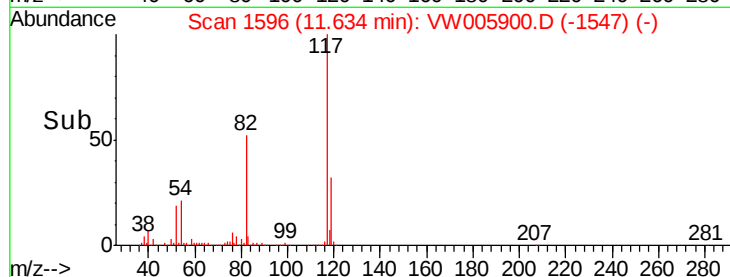
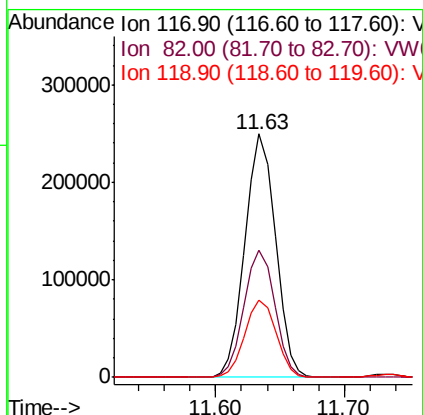
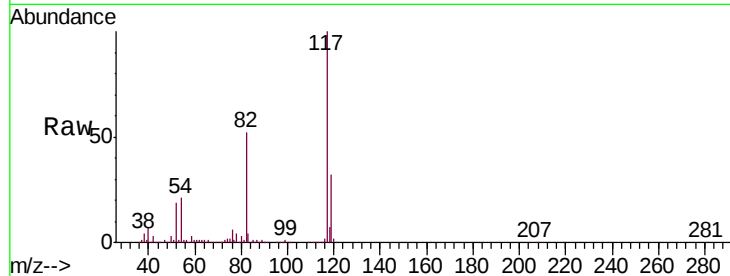




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW005900.D
Acq: 08 Oct 2018 17:17

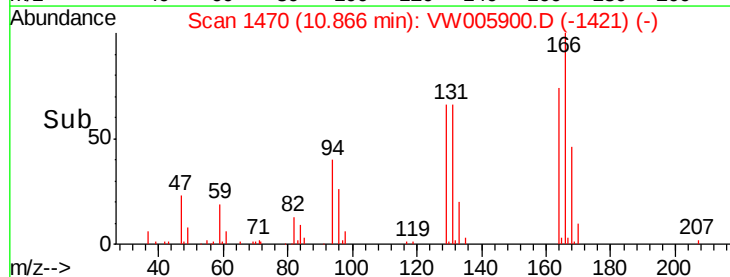
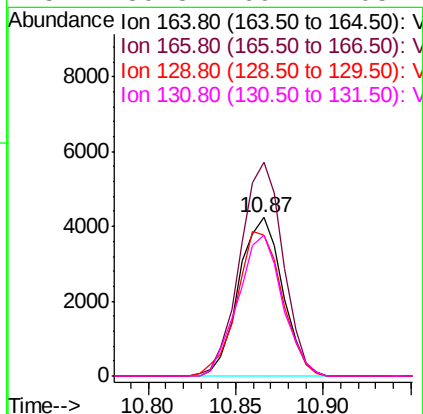
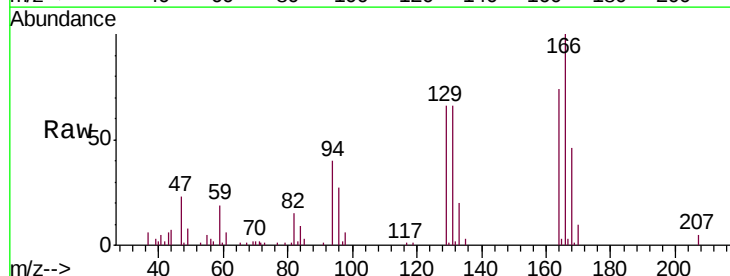
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018DL

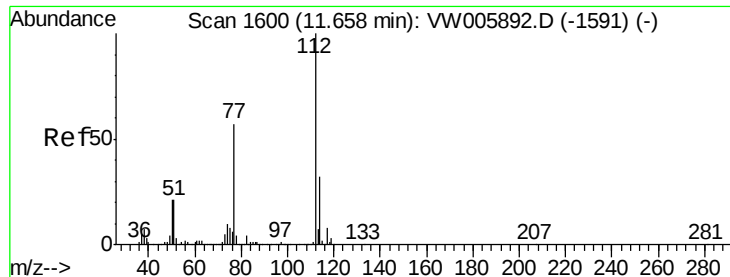
Tgt Ion:117 Resp: 410098
Ion Ratio Lower Upper
117 100
82 52.3 43.5 65.3
119 31.5 25.4 38.2



#64
Tetrachloroethene
Concen: 2.412 ug/l
RT: 10.87 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VW005900.D
Acq: 08 Oct 2018 17:17

Tgt Ion:164 Resp: 7368
Ion Ratio Lower Upper
164 100
166 135.0 101.5 152.3
129 89.1 71.1 106.7
131 89.3 69.1 103.7





#65

Chlorobenzene

Concen: 2.403 ug/l

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

Instrument :

MSVOA_W

ClientSampleId :

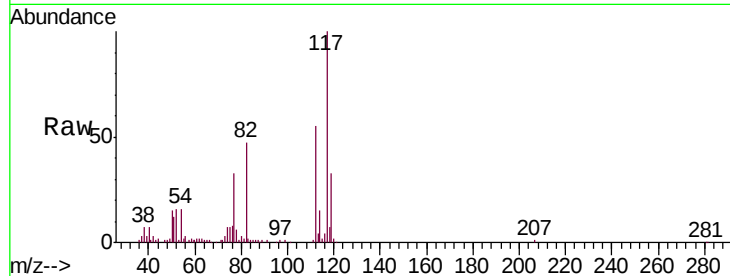
MDL-MDL-SOIL-03-QT4-2018DL

Tgt Ion:112 Resp: 21112

Ion Ratio Lower Upper

112 100

114 27.0 25.6 38.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.66

15000

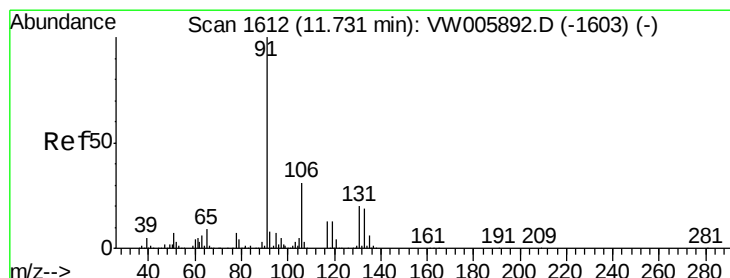
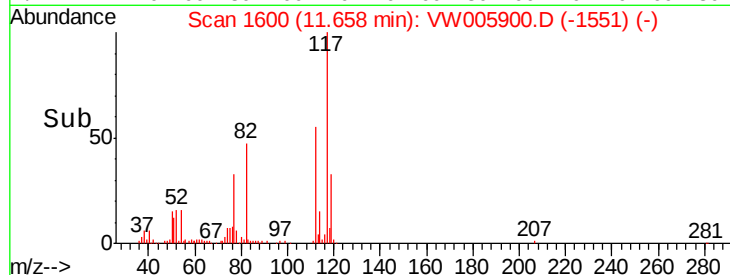
10000

5000

0

Time-->

11.60 11.65 11.70



#66

1,1,1,2-Tetrachloroethane

Concen: 2.413 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

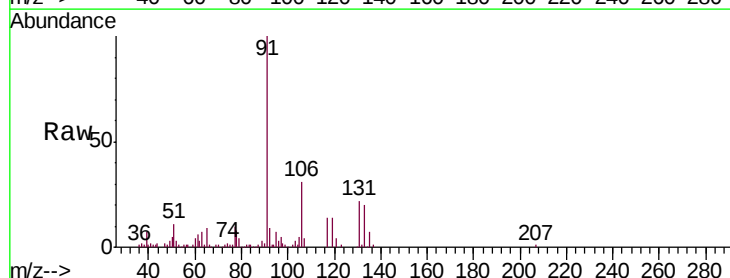
Tgt Ion:131 Resp: 7770

Ion Ratio Lower Upper

131 100

133 92.2 48.2 144.6

119 64.9 32.5 97.5



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

60000

50000

40000

30000

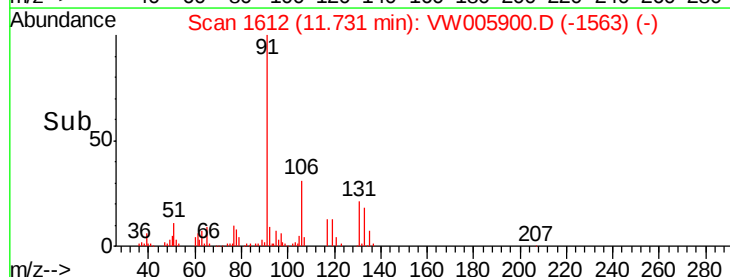
20000

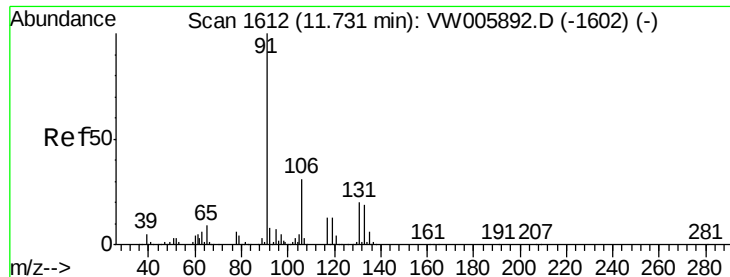
10000

0

Time-->

11.65 11.70 11.75 11.80

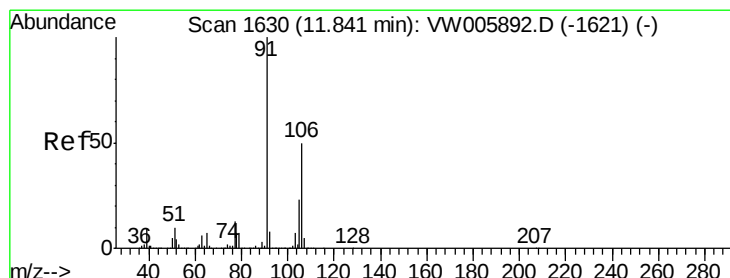
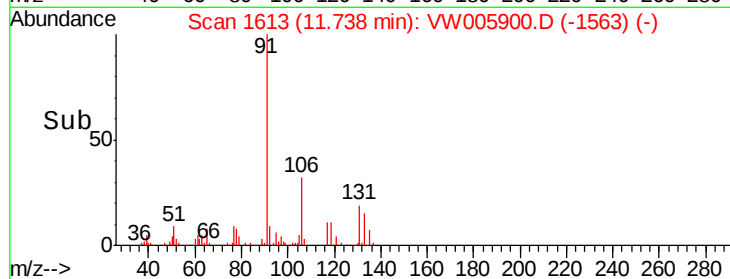
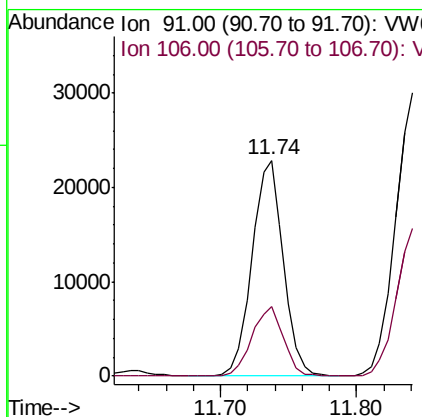
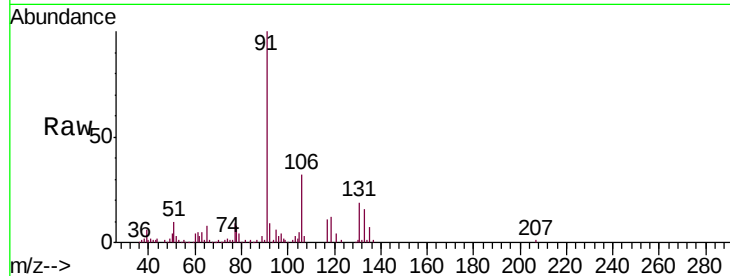




#67
Ethyl Benzene
Concen: 2.385 ug/l
RT: 11.74 min Scan# 1613
Delta R.T. 0.01 min
Lab File: VW005900.D
Acq: 08 Oct 2018 17:17

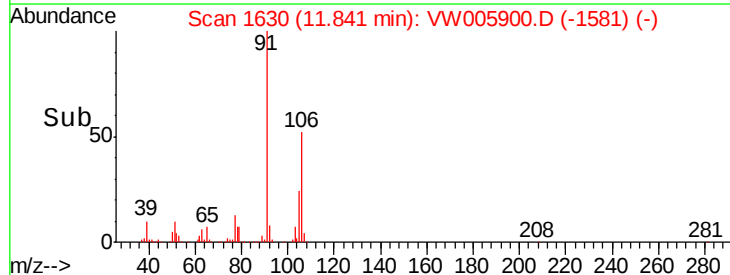
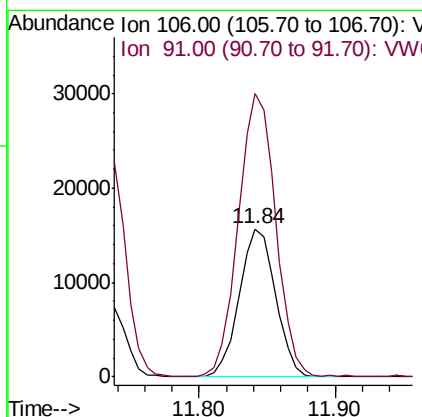
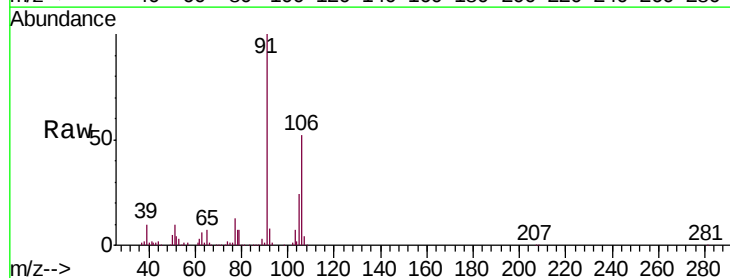
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018DL

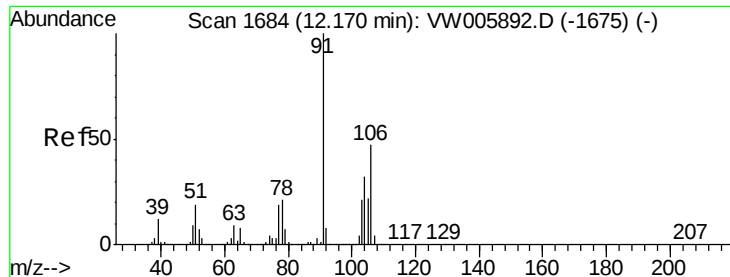
Tgt Ion: 91 Resp: 37007
Ion Ratio Lower Upper
91 100
106 32.0 25.0 37.6



#68
m/p-Xylenes
Concen: 4.806 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW005900.D
Acq: 08 Oct 2018 17:17

Tgt Ion: 106 Resp: 29141
Ion Ratio Lower Upper
106 100
91 197.7 160.2 240.2

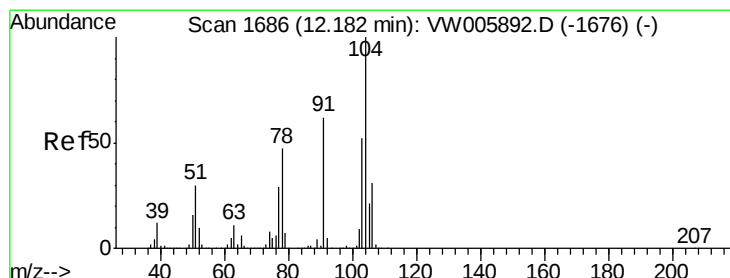
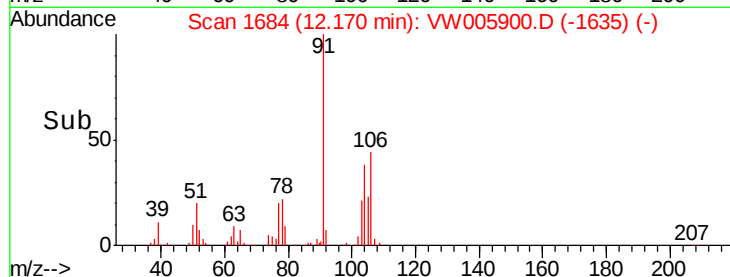
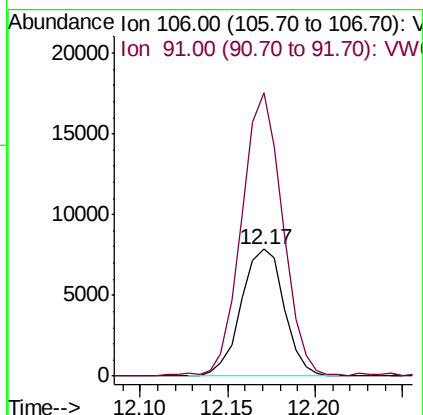
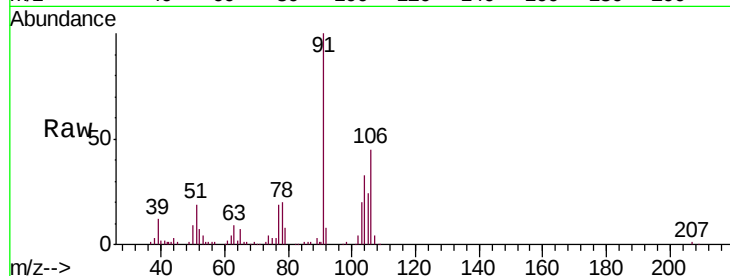




#69
o-Xylene
Concen: 2.318 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VW005900.D
Acq: 08 Oct 2018 17:17

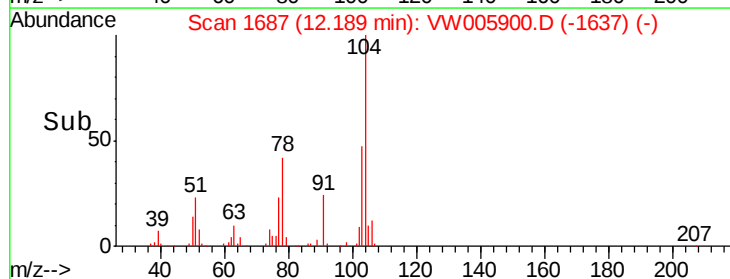
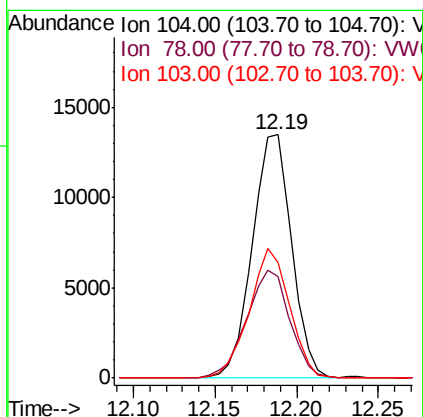
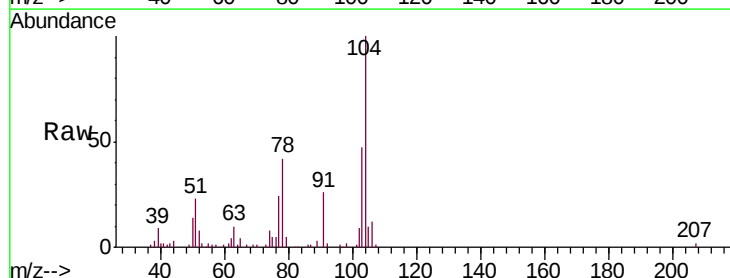
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018DL

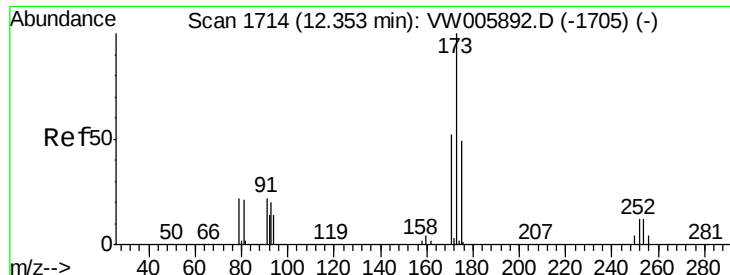
Tgt Ion:106 Resp: 13458
Ion Ratio Lower Upper
106 100
91 213.9 106.2 318.5



#70
Styrene
Concen: 2.340 ug/l
RT: 12.19 min Scan# 1687
Delta R.T. 0.01 min
Lab File: VW005900.D
Acq: 08 Oct 2018 17:17

Tgt Ion:104 Resp: 22535
Ion Ratio Lower Upper
104 100
78 48.8 40.4 60.6
103 54.7 44.2 66.2

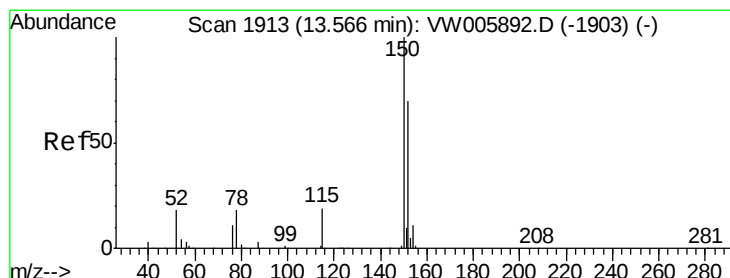
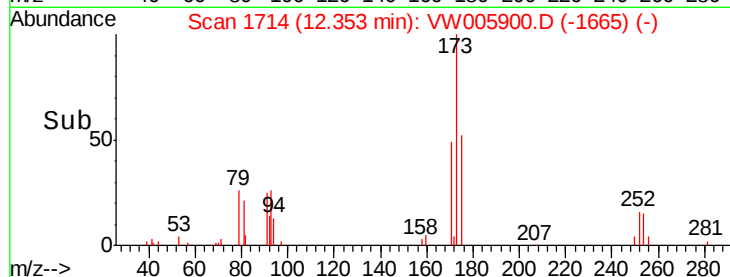
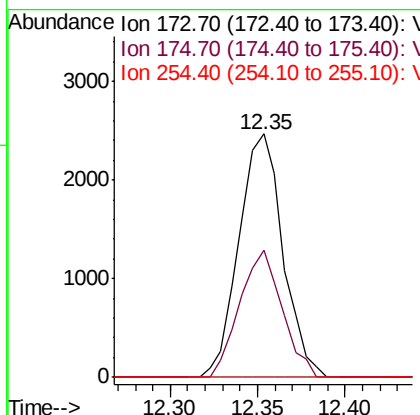
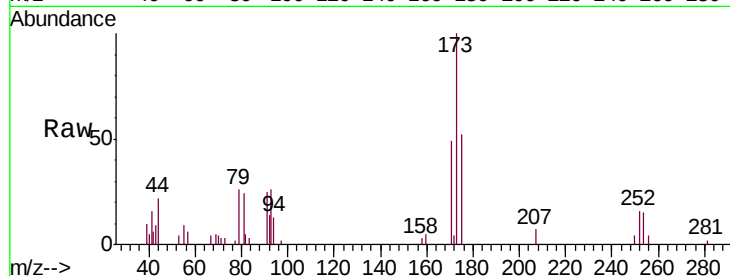




#71
Bromoform
Concen: 2.249 ug/l
RT: 12.35 min Scan# 1714
Delta R.T. 0.00 min
Lab File: VW005900.D
Acq: 08 Oct 2018 17:17

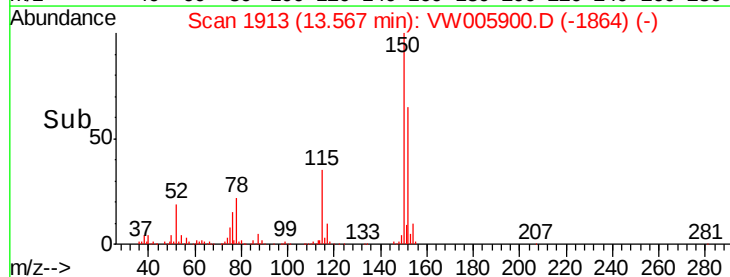
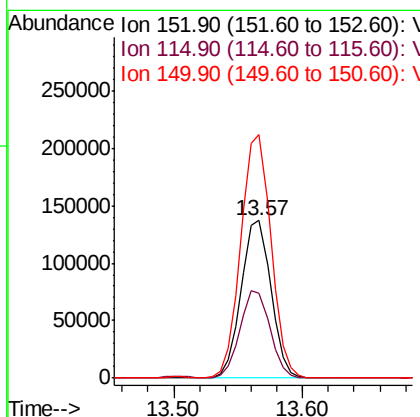
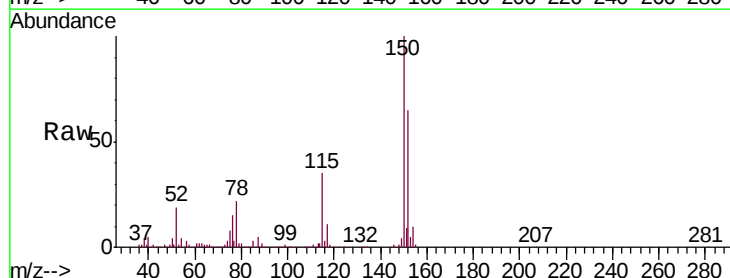
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2018DL

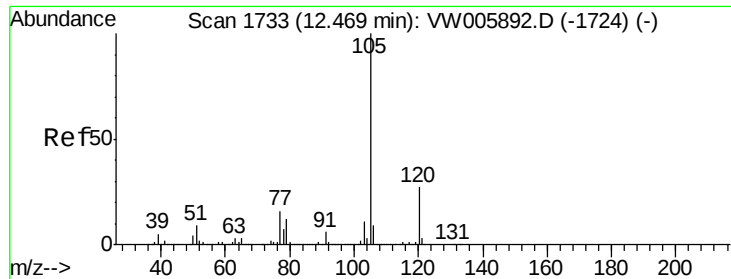
Tgt Ion:173 Resp: 4313
Ion Ratio Lower Upper
173 100
175 50.2 24.7 74.1
254 0.0 0.2 0.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1913
Delta R.T. 0.00 min
Lab File: VW005900.D
Acq: 08 Oct 2018 17:17

Tgt Ion:152 Resp: 220030
Ion Ratio Lower Upper
152 100
115 56.0 28.3 85.0
150 156.1 0.0 349.2





#73

Isopropylbenzene

Concen: 2.310 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

Instrument :

MSVOA_W

ClientSampleId :

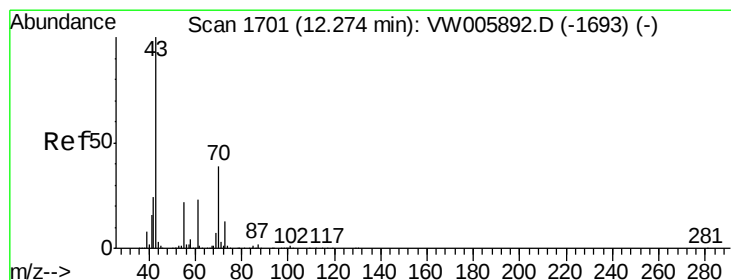
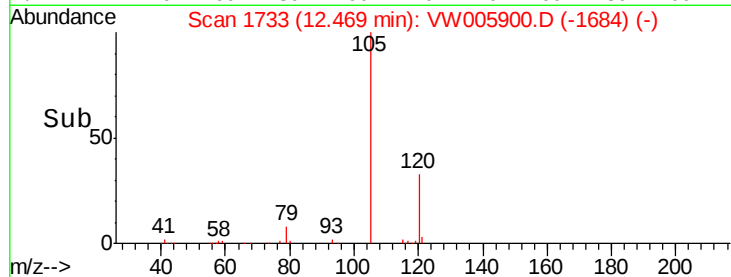
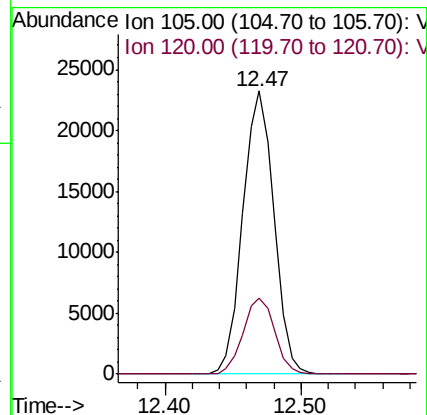
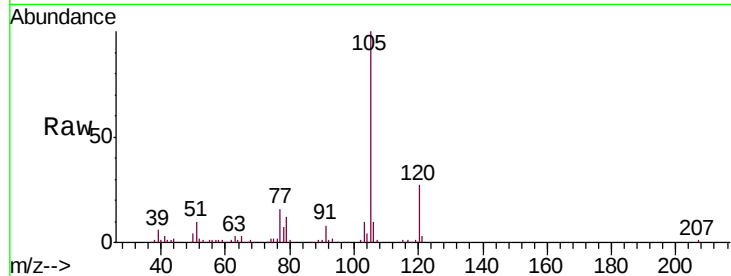
MDL-MDL-SOIL-03-QT4-2018DL

Tgt Ion: 105 Resp: 37122

Ion Ratio Lower Upper

105 100

120 27.4 13.6 40.8



#74

N-ethyl acetate

Concen: 2.362 ug/l

RT: 12.28 min Scan# 1702

Delta R.T. 0.01 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

Tgt Ion: 43 Resp: 9014

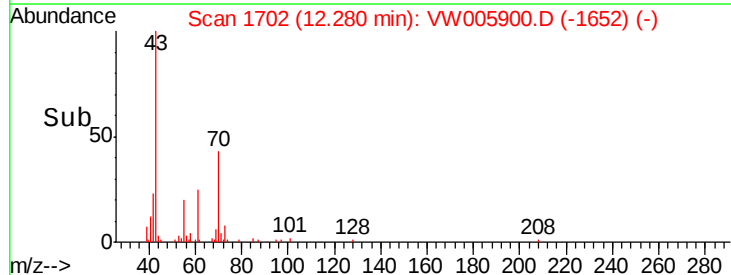
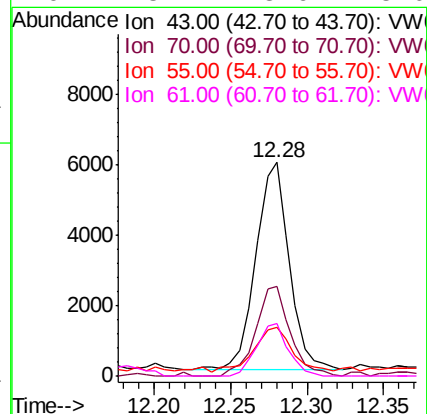
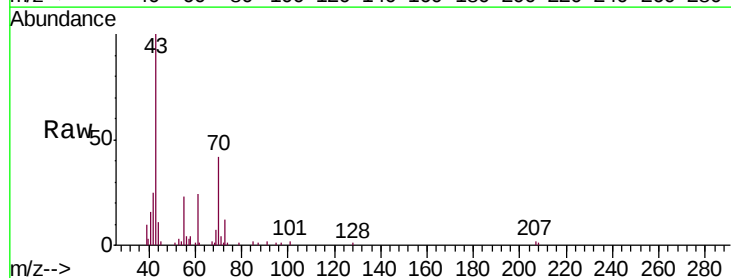
Ion Ratio Lower Upper

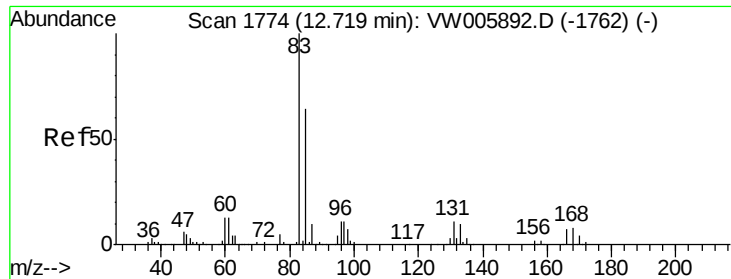
43 100

70 43.9 31.6 47.4

55 24.1 17.9 26.9

61 23.7 18.6 28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 2.493 ug/l

RT: 12.72 min Scan# 1774

Delta R.T. 0.00 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018DL

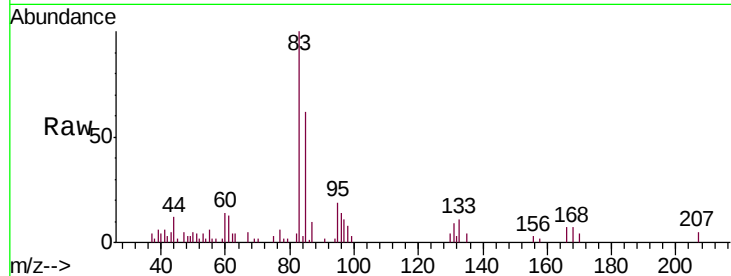
Tgt Ion: 83 Resp: 6565

Ion Ratio Lower Upper

83 100

131 10.8 5.8 17.3

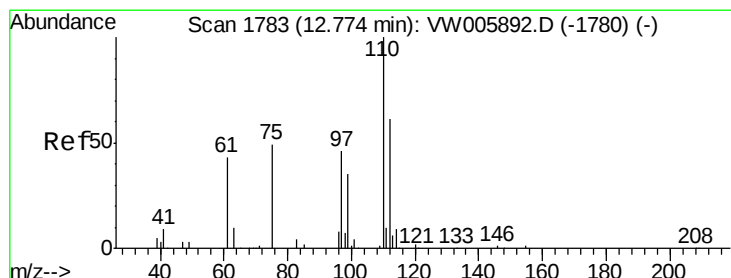
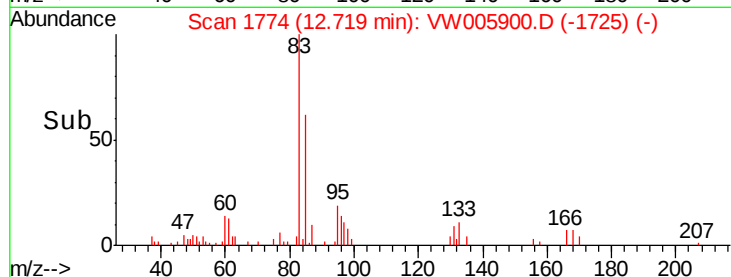
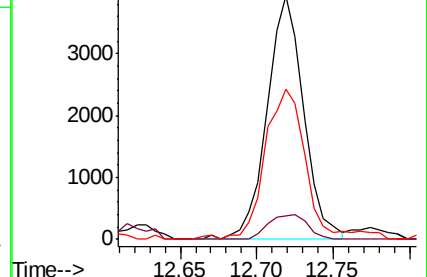
85 66.9 32.4 97.0



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 4.252 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. -0.01 min

Lab File: VW005900.D

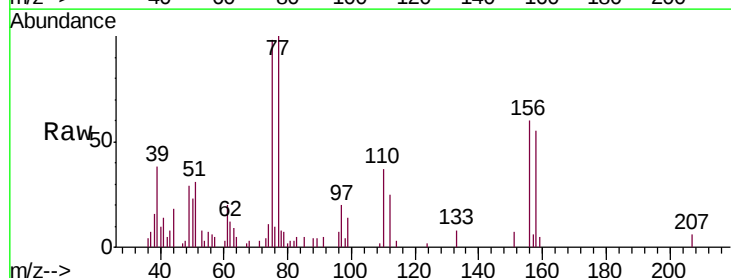
Acq: 08 Oct 2018 17:17

Tgt Ion: 75 Resp: 8357

Ion Ratio Lower Upper

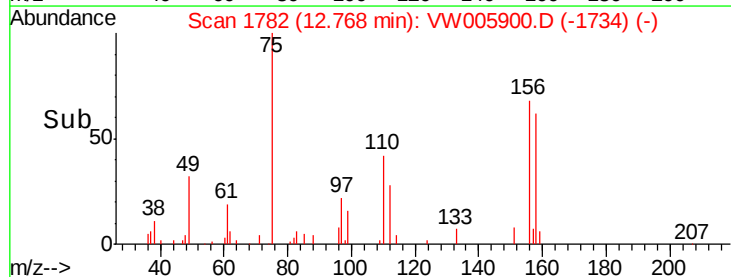
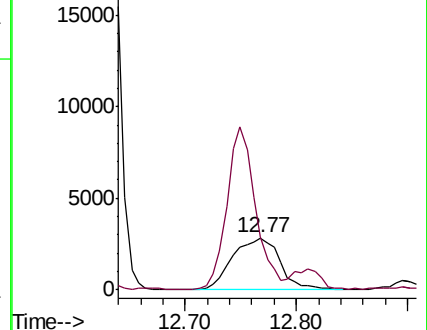
75 100

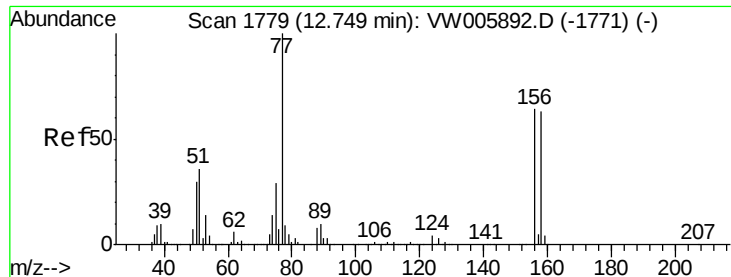
77 189.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 2.443 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018DL

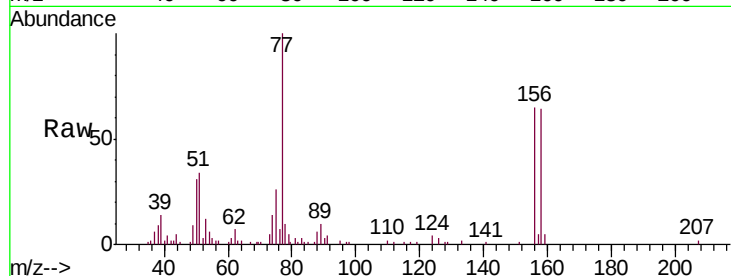
Tgt Ion: 156 Resp: 9302

Ion Ratio Lower Upper

156 100

77 170.7 85.8 257.4

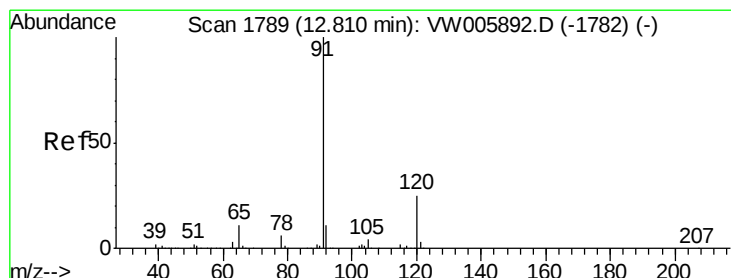
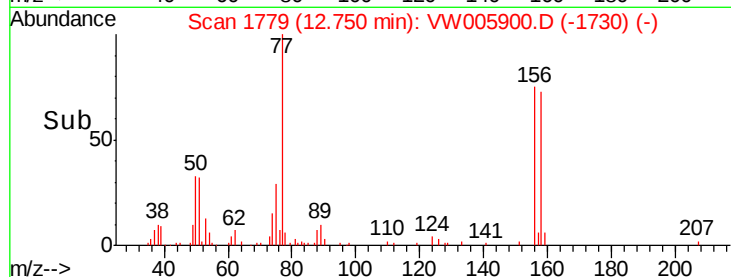
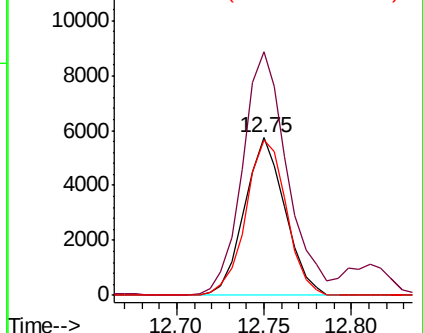
158 98.3 49.1 147.4



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 2.294 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VW005900.D

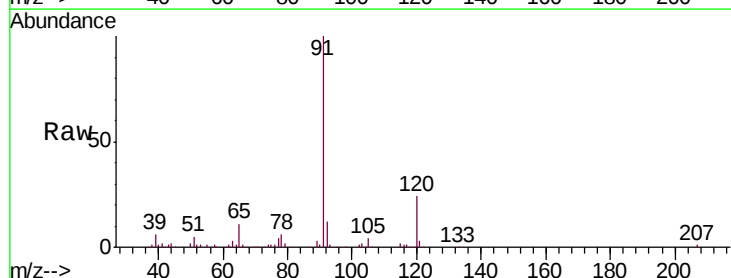
Acq: 08 Oct 2018 17:17

Tgt Ion: 91 Resp: 43369

Ion Ratio Lower Upper

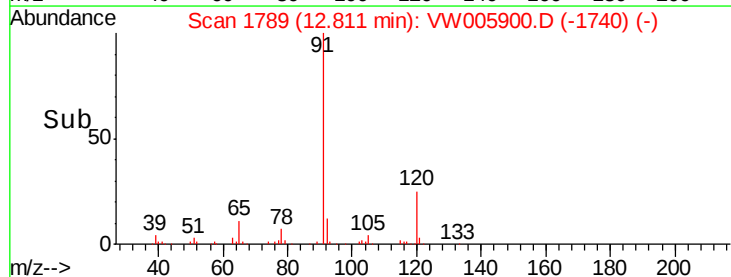
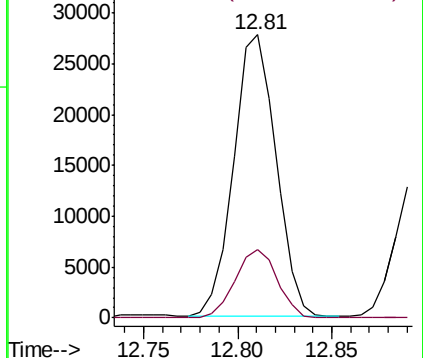
91 100

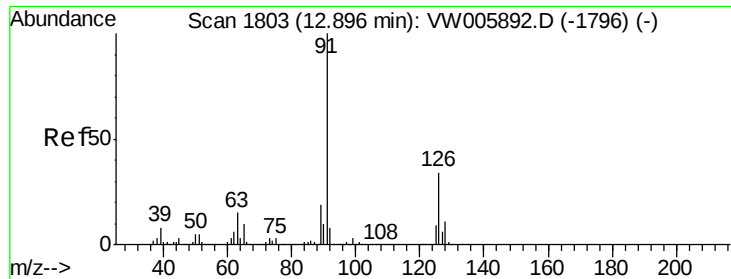
120 24.2 12.0 36.0



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 2.359 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

Instrument :

MSVOA_W

ClientSampleId :

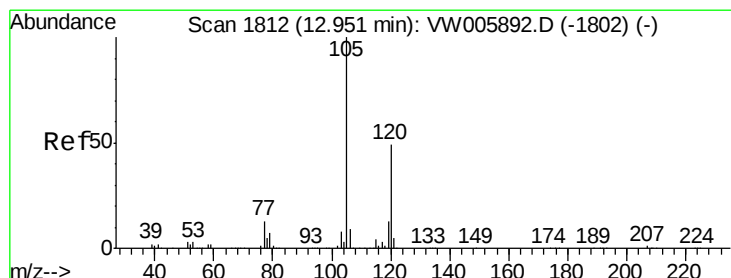
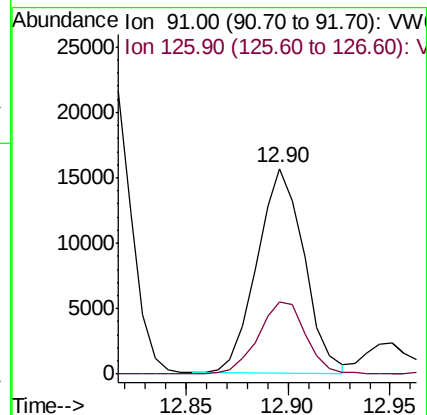
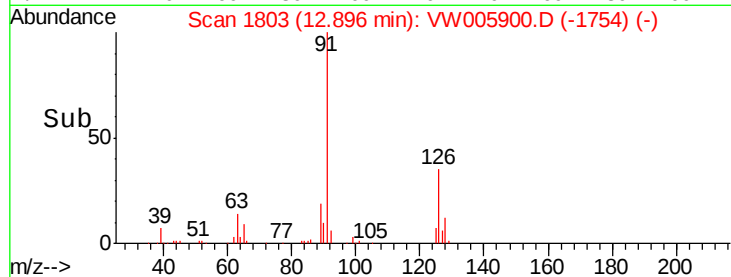
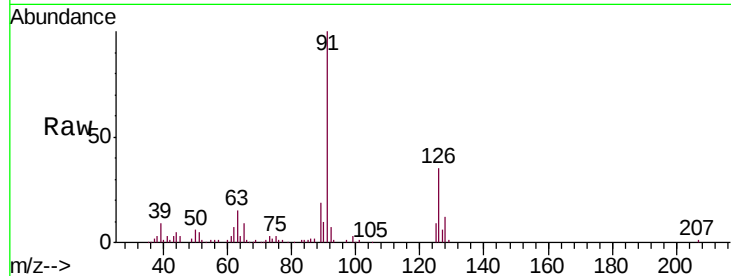
MDL-MDL-SOIL-03-QT4-2018DL

Tgt Ion: 91 Resp: 25174

Ion Ratio Lower Upper

91 100

126 35.7 17.5 52.5



#80

1,3,5-Trimethylbenzene

Concen: 2.353 ug/l

RT: 12.95 min Scan# 1812

Delta R.T. 0.00 min

Lab File: VW005900.D

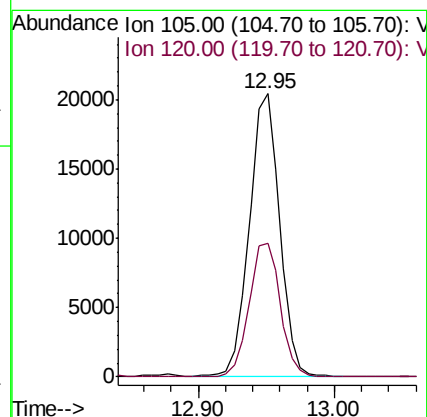
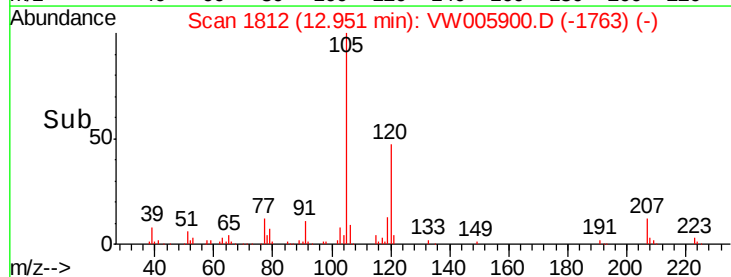
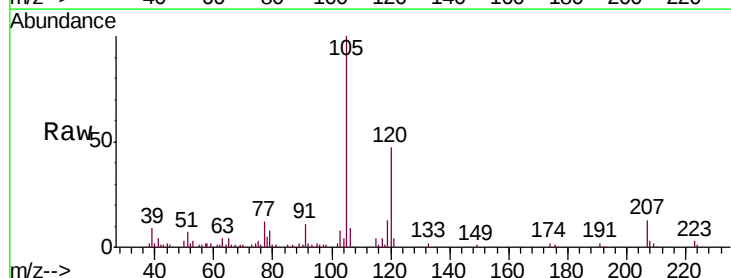
Acq: 08 Oct 2018 17:17

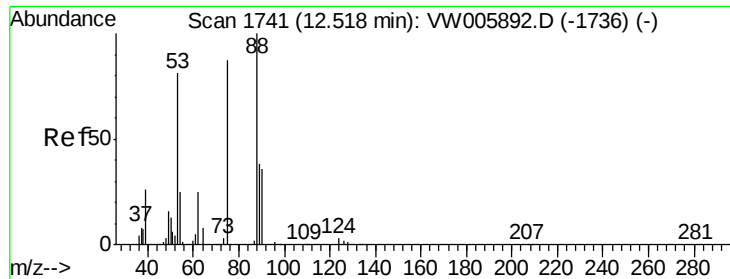
Tgt Ion: 105 Resp: 31919

Ion Ratio Lower Upper

105 100

120 48.6 24.6 73.8





#81

trans-1,4-Dichloro-2-butene

Concen: 115.160 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018DL

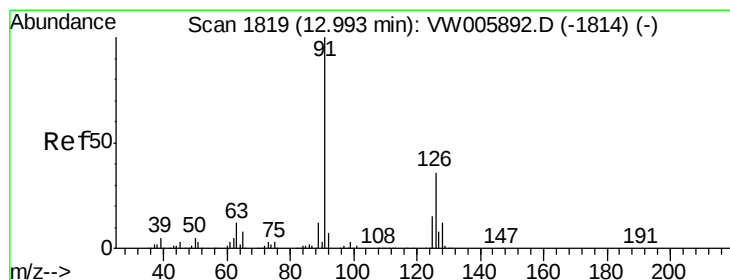
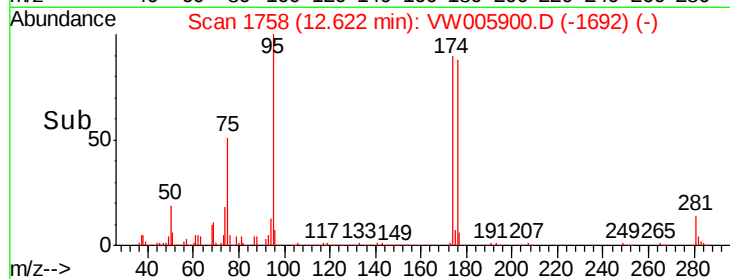
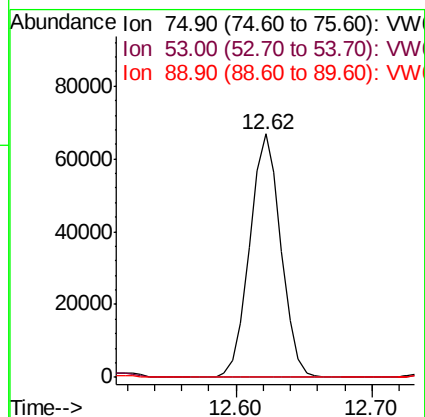
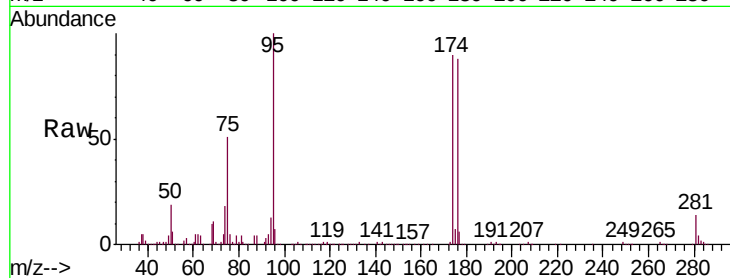
Tgt Ion: 75 Resp: 107216

Ion Ratio Lower Upper

75 100

53 0.1 76.5 114.7#

89 0.0 37.6 56.4#



#82

4-Chlorotoluene

Concen: 2.377 ug/l

RT: 12.99 min Scan# 1819

Delta R.T. 0.00 min

Lab File: VW005900.D

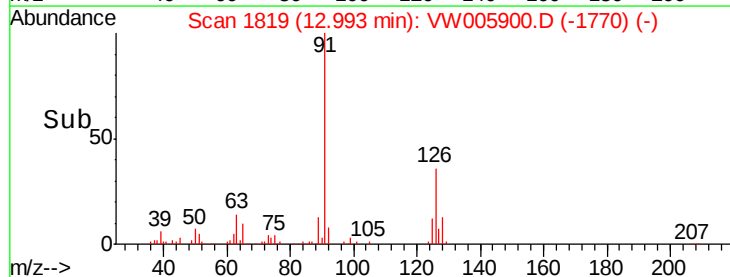
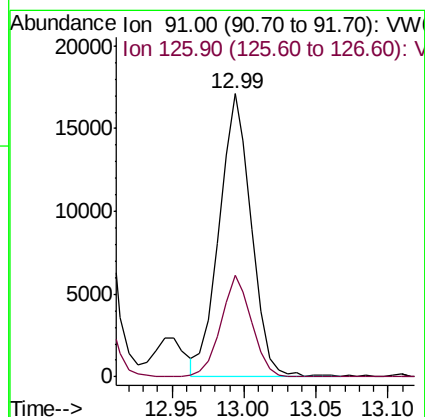
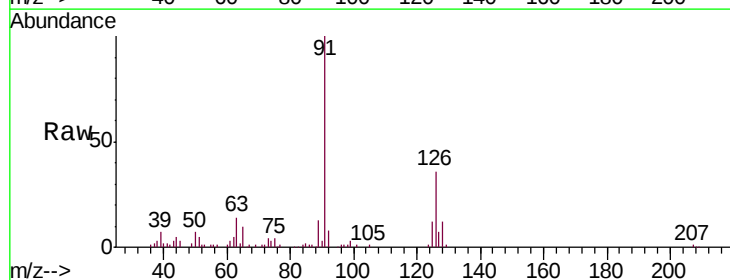
Acq: 08 Oct 2018 17:17

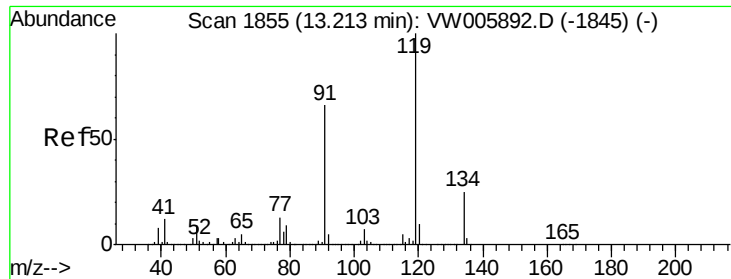
Tgt Ion: 91 Resp: 26686

Ion Ratio Lower Upper

91 100

126 34.2 17.4 52.2

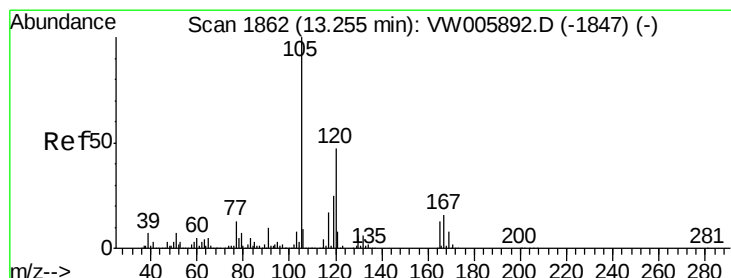
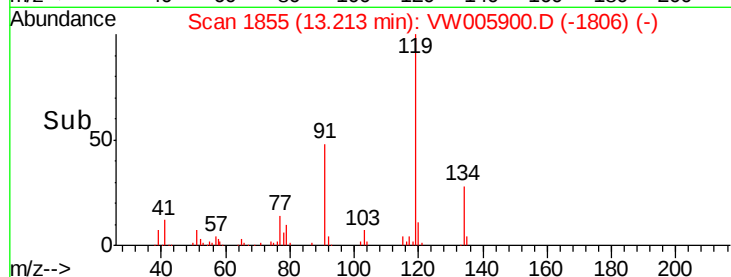
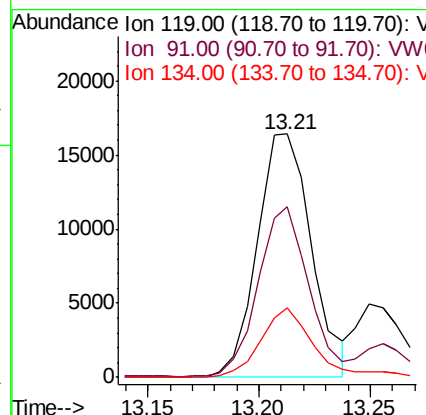
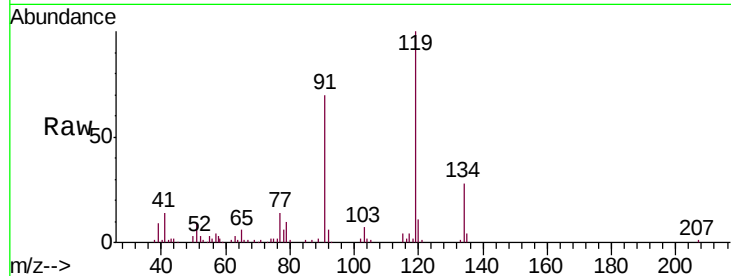




#83
 tert-Butylbenzene
 Concen: 2.307 ug/l
 RT: 13.21 min Scan# 1855
 Delta R.T. 0.00 min
 Lab File: VW005900.D
 Acq: 08 Oct 2018 17:17

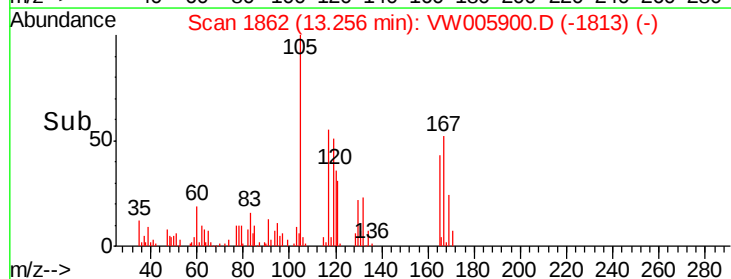
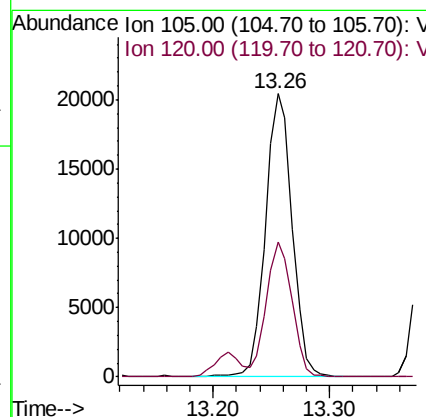
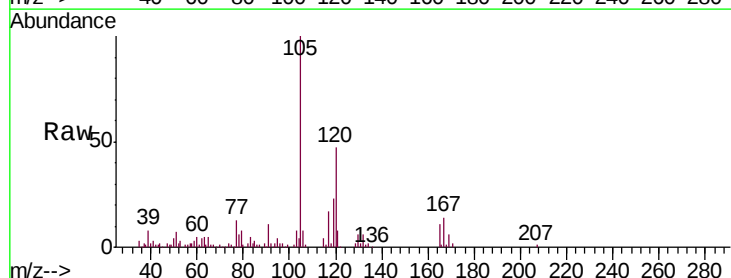
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018DL

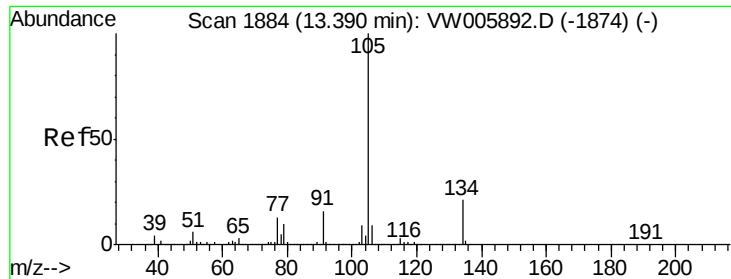
Tgt Ion:119 Resp: 27841
 Ion Ratio Lower Upper
 119 100
 91 64.8 32.4 97.0
 134 28.1 13.2 39.6



#84
 1,2,4-Trimethylbenzene
 Concen: 2.363 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. 0.00 min
 Lab File: VW005900.D
 Acq: 08 Oct 2018 17:17

Tgt Ion:105 Resp: 32336
 Ion Ratio Lower Upper
 105 100
 120 45.7 22.8 68.3

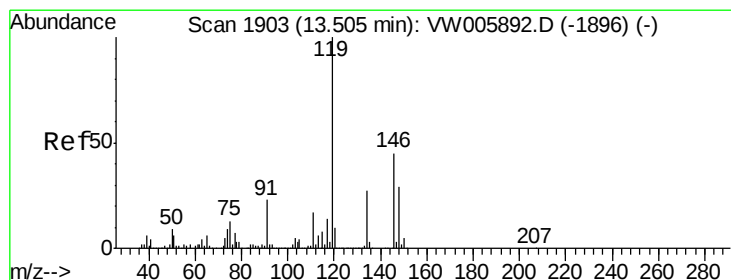
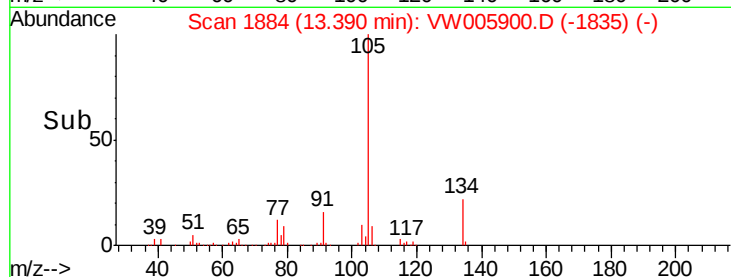
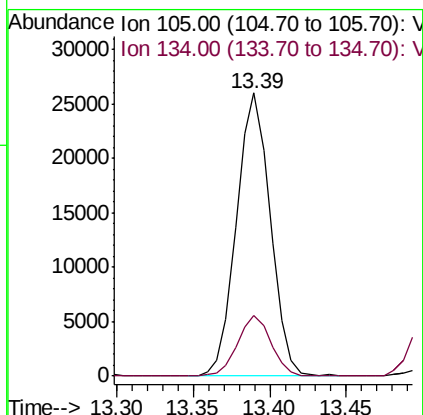
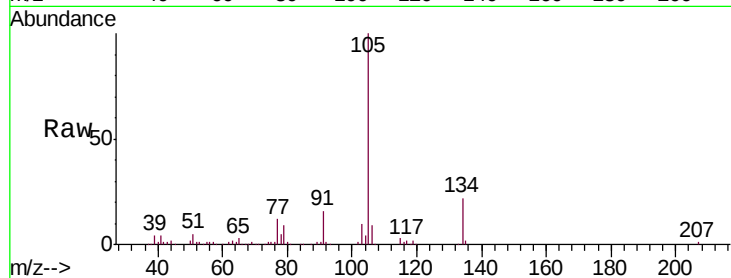




#85
 sec-Butylbenzene
 Concen: 2.360 ug/l
 RT: 13.39 min Scan# 1884
 Delta R.T. 0.00 min
 Lab File: VW005900.D
 Acq: 08 Oct 2018 17:17

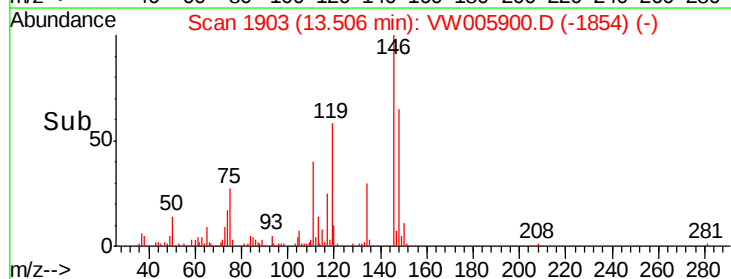
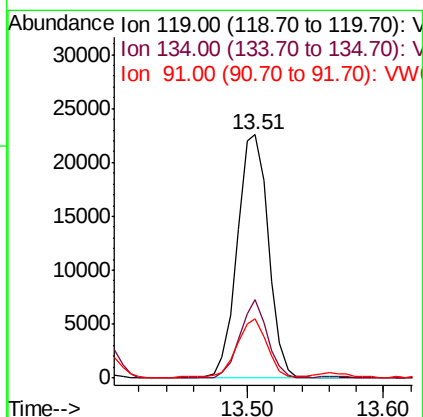
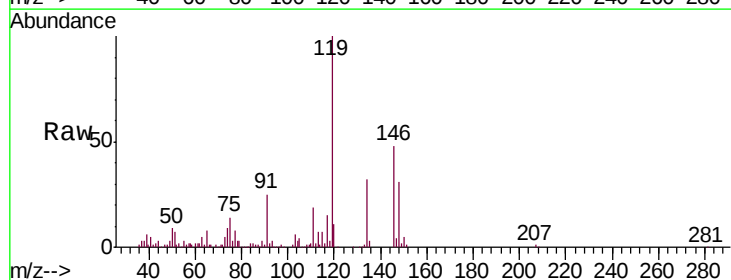
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018DL

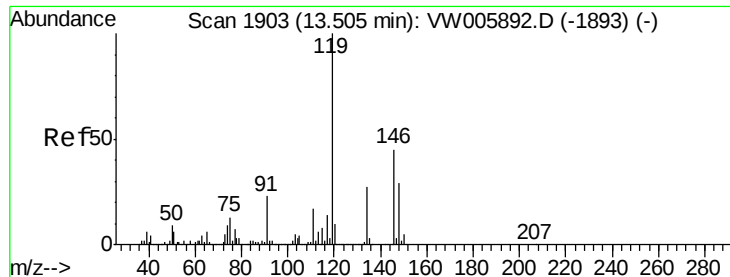
Tgt Ion:105 Resp: 39967
 Ion Ratio Lower Upper
 105 100
 134 21.3 10.4 31.4



#86
 p-Isopropyltoluene
 Concen: 2.361 ug/l
 RT: 13.51 min Scan# 1903
 Delta R.T. 0.00 min
 Lab File: VW005900.D
 Acq: 08 Oct 2018 17:17

Tgt Ion:119 Resp: 35962
 Ion Ratio Lower Upper
 119 100
 134 28.3 13.5 40.5
 91 24.5 11.9 35.5

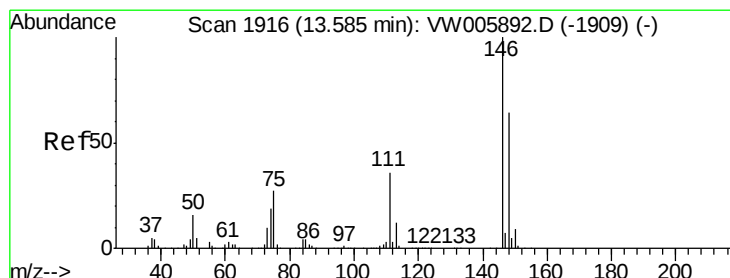
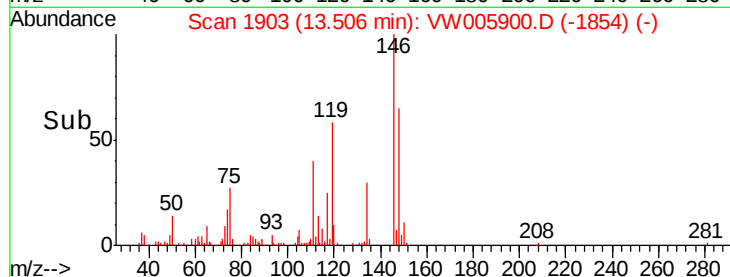
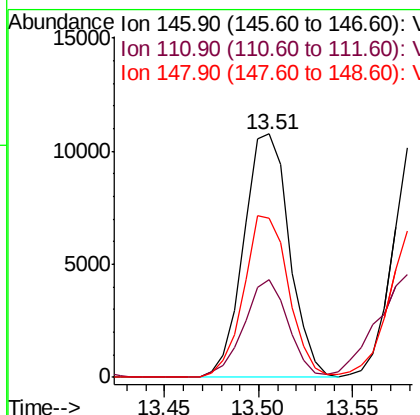
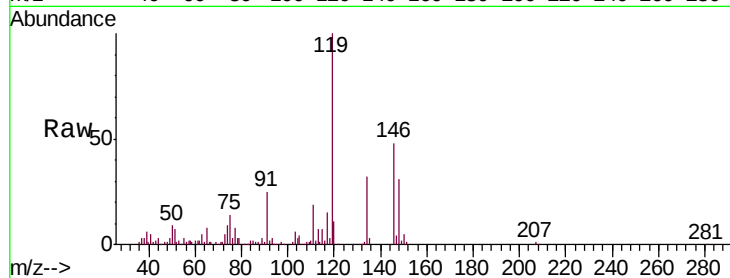




#87
 1,3-Dichlorobenzene
 Concen: 2.390 ug/l
 RT: 13.51 min Scan# 1903
 Delta R.T. 0.00 min
 Lab File: VW005900.D
 Acq: 08 Oct 2018 17:17

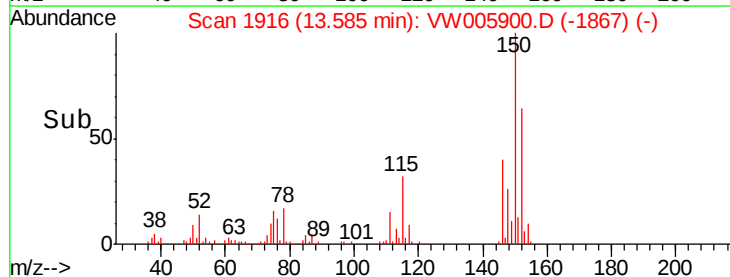
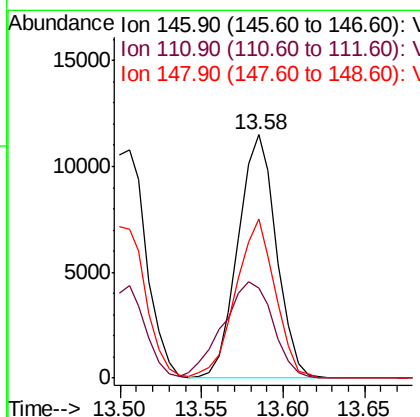
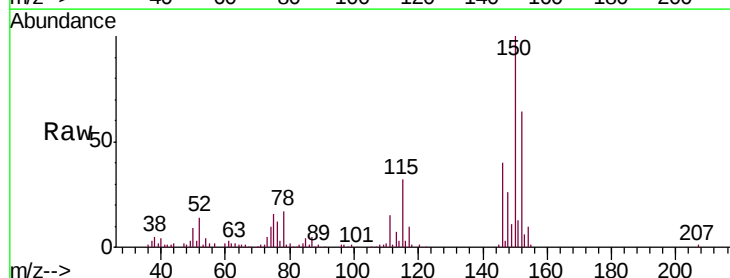
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018DL

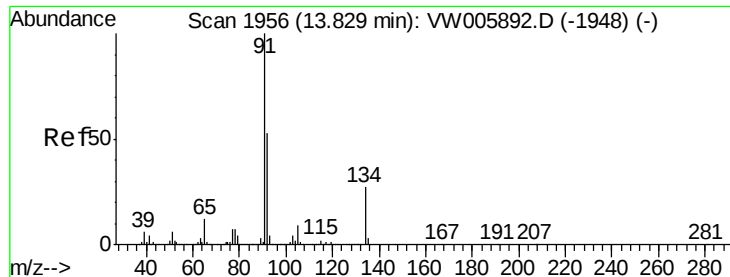
Tgt Ion:146 Resp: 18077
 Ion Ratio Lower Upper
 146 100
 111 39.0 19.5 58.5
 148 65.7 32.1 96.5



#88
 1,4-Dichlorobenzene
 Concen: 2.500 ug/l
 RT: 13.58 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VW005900.D
 Acq: 08 Oct 2018 17:17

Tgt Ion:146 Resp: 18790
 Ion Ratio Lower Upper
 146 100
 111 52.0 19.0 57.0
 148 67.3 32.0 96.2





#89

n-Butylbenzene

Concen: 2.363 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018DL

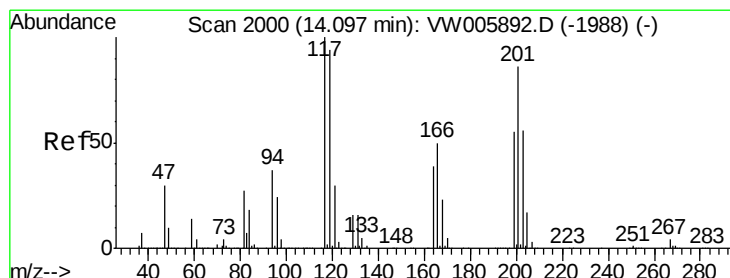
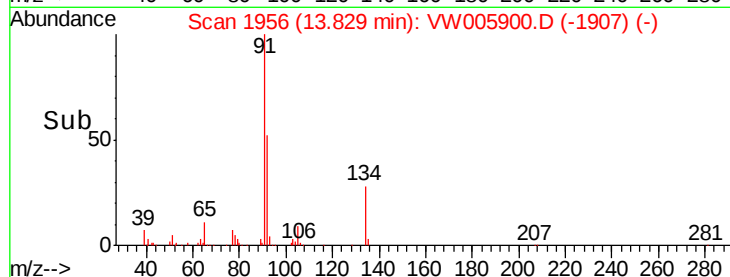
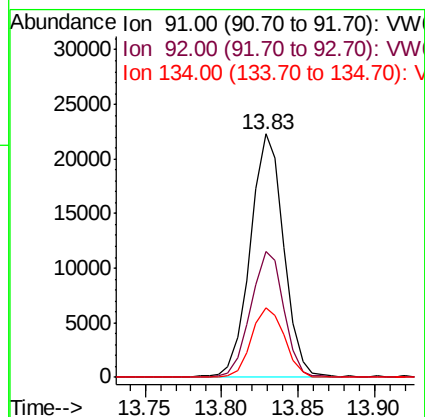
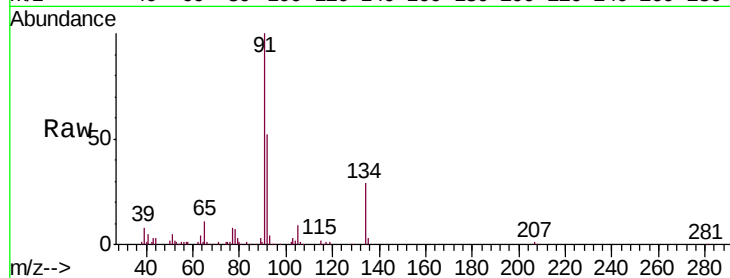
Tgt Ion: 91 Resp: 33929

Ion Ratio Lower Upper

91 100

92 51.2 26.6 79.8

134 28.3 13.8 41.4



#90

Hexachloroethane

Concen: 2.180 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. 0.00 min

Lab File: VW005900.D

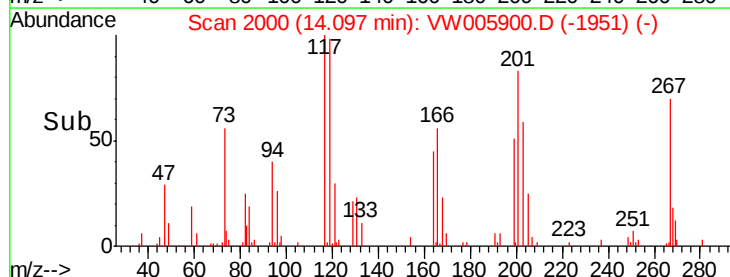
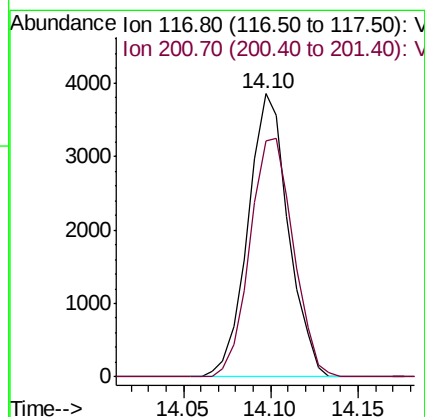
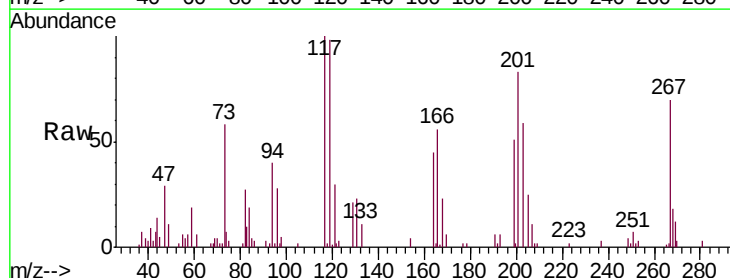
Acq: 08 Oct 2018 17:17

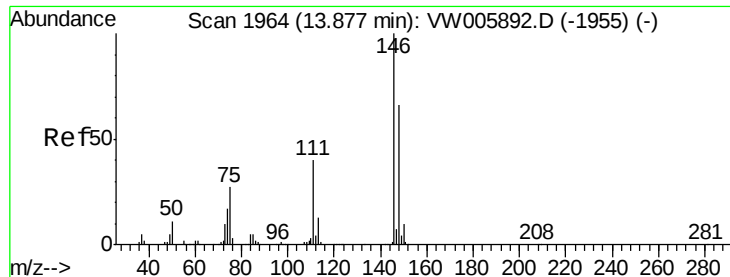
Tgt Ion: 117 Resp: 6246

Ion Ratio Lower Upper

117 100

201 90.0 44.5 133.5

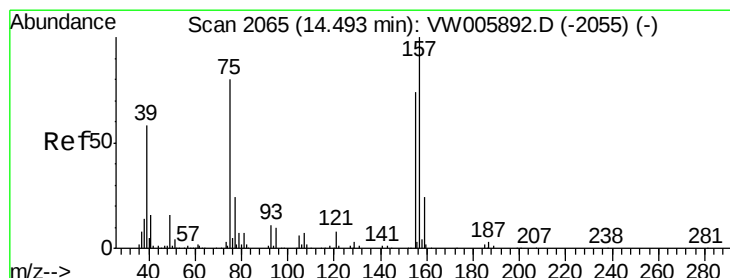
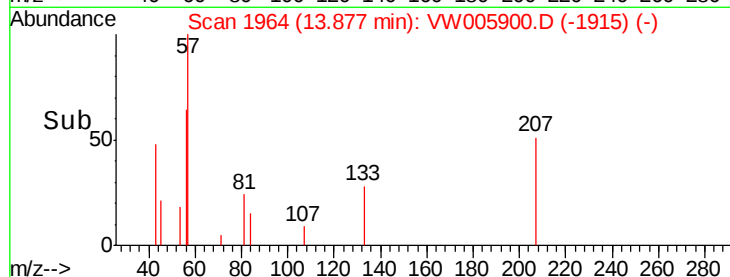
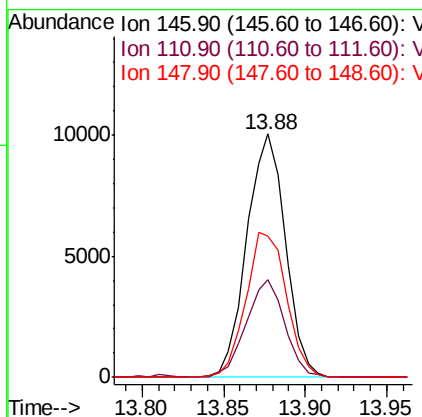
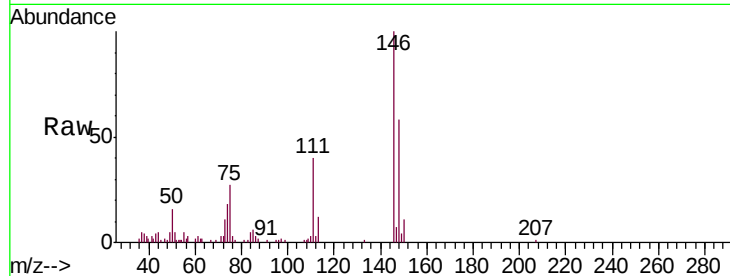




#91
 1,2-Dichlorobenzene
 Concen: 2.457 ug/l
 RT: 13.88 min Scan# 1964
 Delta R.T. 0.00 min
 Lab File: VW005900.D
 Acq: 08 Oct 2018 17:17

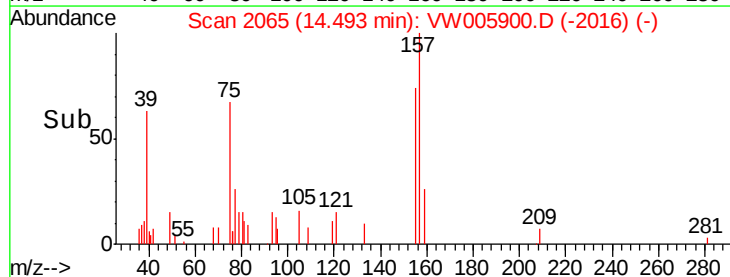
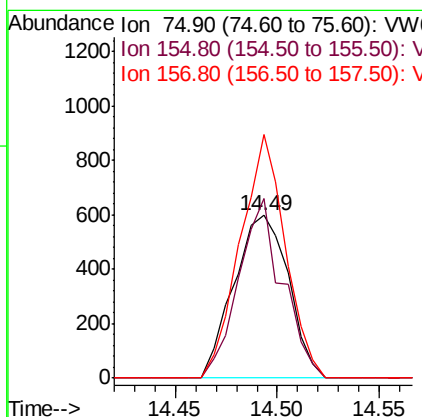
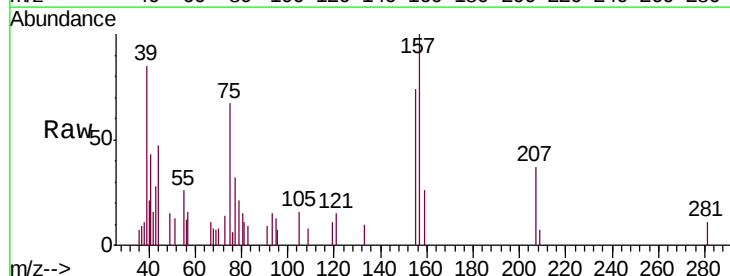
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018DL

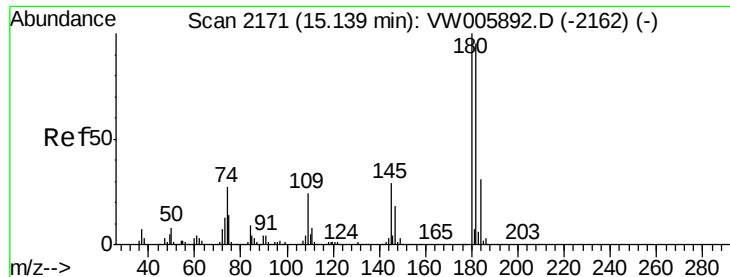
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.9	20.3	61.0
148	62.7	32.5	97.4



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.261 ug/l
 RT: 14.49 min Scan# 2065
 Delta R.T. 0.00 min
 Lab File: VW005900.D
 Acq: 08 Oct 2018 17:17

Tgt Ion	Ratio	Lower	Upper
75	100		
155	88.6	44.8	134.3
157	123.4	58.9	176.6

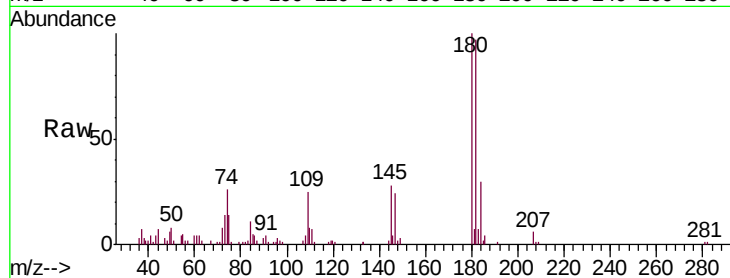




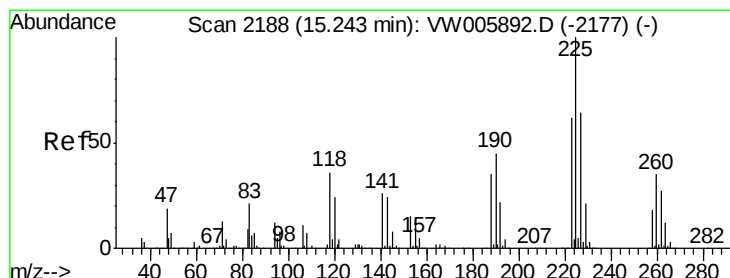
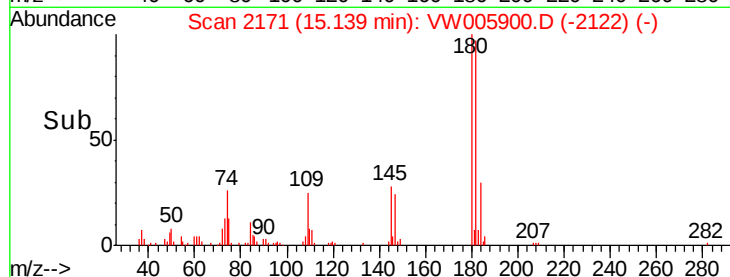
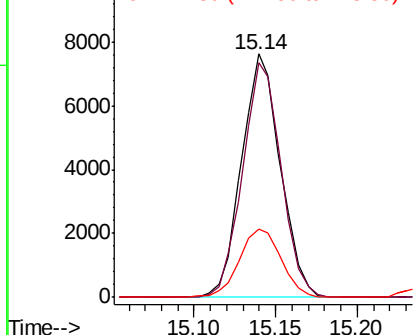
#93
 1,2,4-Trichlorobenzene
 Concen: 2.413 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW005900.D
 Acq: 08 Oct 2018 17:17

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2018DL

Tgt Ion:180 Resp: 12562
 Ion Ratio Lower Upper
 180 100
 182 95.8 47.8 143.3
 145 30.5 14.5 43.6

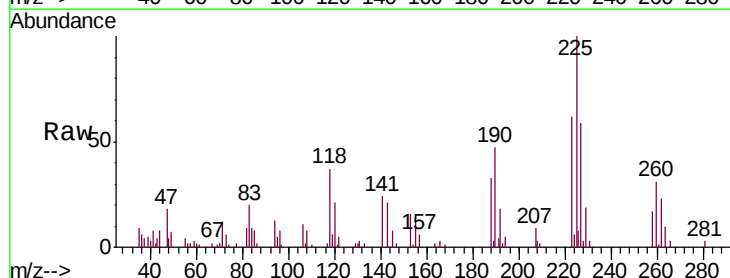


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

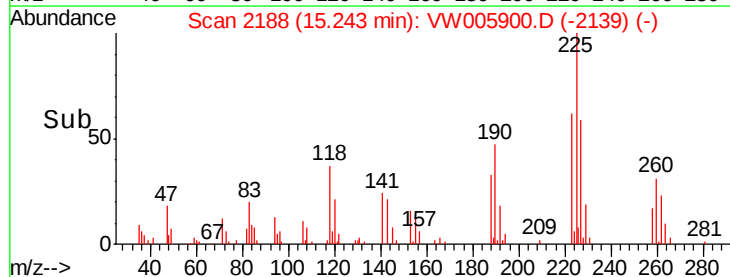
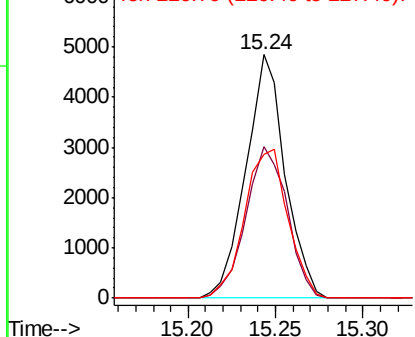


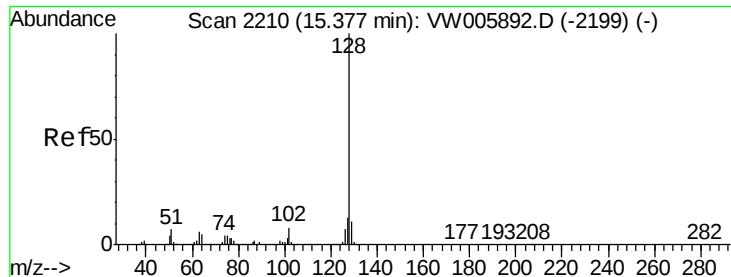
#94
 Hexachlorobutadiene
 Concen: 2.324 ug/l
 RT: 15.24 min Scan# 2188
 Delta R.T. 0.00 min
 Lab File: VW005900.D
 Acq: 08 Oct 2018 17:17

Tgt Ion:225 Resp: 7554
 Ion Ratio Lower Upper
 225 100
 223 65.5 31.2 93.6
 227 67.7 31.9 95.9



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: 2.441 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.00 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2018DL

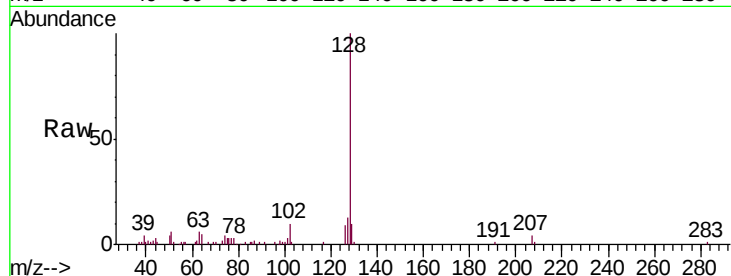
Tgt Ion:128 Resp: 21904

Ion Ratio Lower Upper

128 100

127 13.1 10.5 15.7

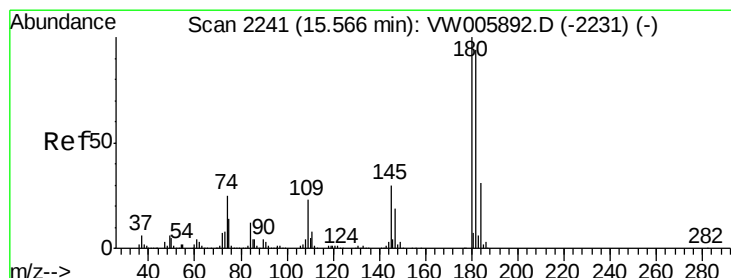
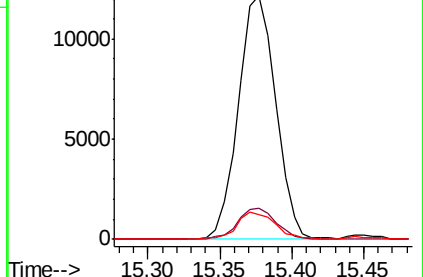
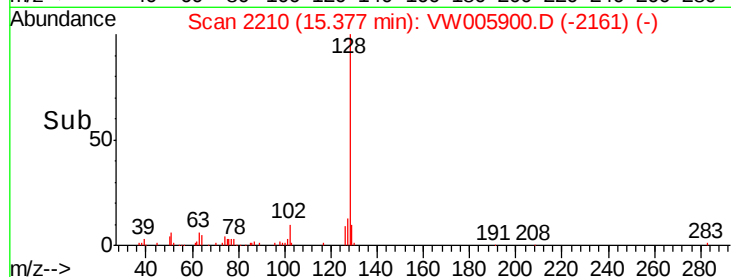
129 11.4 8.9 13.3



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: 2.481 ug/l

RT: 15.57 min Scan# 2241

Delta R.T. 0.00 min

Lab File: VW005900.D

Acq: 08 Oct 2018 17:17

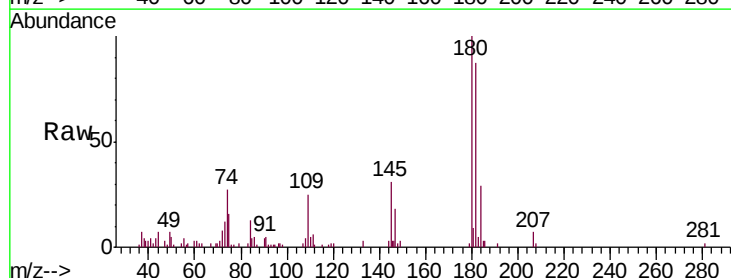
Tgt Ion:180 Resp: 11185

Ion Ratio Lower Upper

180 100

182 95.0 47.6 142.8

145 30.3 15.3 45.9



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

