

Data File : VW011174.D
Acq On : 09 Jul 2019 12:59
Operator : SY/VA
Sample : K3591-03MDL2.5PPB
Misc : 5.00G/5ML/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

Quant Time: Jul 10 04:33:45 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W070819S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 09 07:16:01 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	233563	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	383411	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	335415	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	164578	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	144651	49.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.58%	
35) Dibromofluoromethane	7.88	113	111585	48.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.66%	
50) Toluene-d8	10.32	98	454916	49.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.50%	
62) 4-Bromofluorobenzene	12.62	95	165973	49.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.04%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	4035	2.316	ug/l	93
3) Chloromethane	2.21	50	6251	2.785	ug/l	99
4) Vinyl Chloride	2.35	62	7165	2.439	ug/l	99
5) Bromomethane	2.76	94	4272	2.894	ug/l	86
6) Chloroethane	2.91	64	3908	2.470	ug/l #	80
7) Trichlorofluoromethane	3.25	101	2228	2.135	ug/l #	81
8) Diethyl Ether	3.67	74	3809	2.638	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	4.07	101	6410	2.564	ug/l	96
10) Methyl Iodide	4.27	142	8219	2.390	ug/l	100
11) Tert butyl alcohol	5.16	59	3063	14.097	ug/l	95
12) 1,1-Dichloroethene	4.04	96	6287	2.423	ug/l	98
13) Acrolein	3.89	56	2447	14.143	ug/l	99
14) Allyl chloride	4.67	41	10827	2.288	ug/l	93
15) Acrylonitrile	5.37	53	8768	11.922	ug/l	94
16) Acetone	4.12	43	11421	16.174	ug/l	96
17) Carbon Disulfide	4.38	76	17922	2.278	ug/l #	95
18) Methyl Acetate	4.68	43	7909	2.599	ug/l #	75
19) Methyl tert-butyl Ether	5.43	73	10083	2.561	ug/l	97
20) Methylene Chloride	4.92	84	13393	4.808	ug/l	96
21) trans-1,2-Dichloroethene	5.42	96	6816	2.528	ug/l	82
22) Diisopropyl ether	6.31	45	24315	2.389	ug/l	92
23) Vinyl Acetate	6.26	43	61405	9.750	ug/l	98
24) 1,1-Dichloroethane	6.21	63	13141	2.459	ug/l #	96
25) 2-Butanone	7.17	43	13945	12.580	ug/l	93
26) 2,2-Dichloropropane	7.17	77	6777	2.440	ug/l	99
27) cis-1,2-Dichloroethene	7.17	96	7099	2.441	ug/l	98
28) Bromochloromethane	7.51	49	6759	2.782	ug/l	98
29) Tetrahydrofuran	7.53	42	9065	12.472	ug/l	98
30) Chloroform	7.67	83	13576	2.743	ug/l	89
31) Cyclohexane	7.95	56	18939	3.331	ug/l #	67
32) 1,1,1-Trichloroethane	7.87	97	9128	2.425	ug/l	95
36) 1,1-Dichloropropene	8.08	75	10300	2.523	ug/l	99
37) Ethyl Acetate	7.26	43	5784	2.358	ug/l #	95
38) Carbon Tetrachloride	8.07	117	8380	2.421	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	13003	2.628	ug/l	92
40) Benzene	8.32	78	29114	2.580	ug/l	99
41) Methacrylonitrile	7.49	41	3536	2.520	ug/l	96
42) 1,2-Dichloroethane	8.40	62	9839	2.688	ug/l	99
43) Isopropyl Acetate	8.42	43	11248	2.429	ug/l	96
44) Trichloroethene	9.09	130	6782	2.498	ug/l	92
45) 1,2-Dichloropropane	9.37	63	7812	2.557	ug/l	92
46) Dibromomethane	9.46	93	3634	2.532	ug/l	97
47) Bromodichloromethane	9.64	83	8209	2.235	ug/l	98
48) Methyl methacrylate	9.44	41	4543	2.039	ug/l	88
49) 1,4-Dioxane	9.45	88	1251	52.215	ug/l	89
51) 4-Methyl-2-Pentanone	10.21	43	29144	12.046	ug/l	97
52) Toluene	10.38	92	17014	2.486	ug/l	96
53) t-1,3-Dichloropropene	10.60	75	8593	2.198	ug/l	98
54) cis-1,3-Dichloropropene	10.07	75	10101	2.195	ug/l	94
55) 1,1,2-Trichloroethane	10.79	97	5226	2.566	ug/l	98
56) Ethyl methacrylate	10.65	69	7031	2.268	ug/l	97
57) 1,3-Dichloropropane	10.93	76	9435	2.450	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.92	63	17695	12.312	ug/l	98
59) 2-Hexanone	10.97	43	19716	11.751	ug/l	98
60) Dibromochloromethane	11.12	129	5162	2.312	ug/l	95
61) 1,2-Dibromoethane	11.24	107	4689	2.431	ug/l	95
64) Tetrachloroethene	10.86	164	6232	2.753	ug/l	97
65) Chlorobenzene	11.66	112	17599	2.581	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.73	131	5727	2.385	ug/l	97
67) Ethyl Benzene	11.73	91	32189	2.466	ug/l	98
68) m/p-Xylenes	11.84	106	22740	4.814	ug/l	98
69) o-Xylene	12.16	106	10933	2.456	ug/l	97
70) Styrene	12.18	104	17121	2.228	ug/l	96
71) Bromoform	12.35	173	2702	2.117	ug/l #	99
73) Isopropylbenzene	12.46	105	29684	2.413	ug/l	99
74) N-amyl acetate	12.27	43	9022	2.106	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.71	83	6377	2.529	ug/l	100
76) 1,2,3-Trichloropropane	12.77	75	7698	4.048	ug/l #	100
77) Bromobenzene	12.74	156	7135	2.584	ug/l	97
78) n-propylbenzene	12.80	91	38151	2.517	ug/l	98
79) 2-Chlorotoluene	12.90	91	22048	2.528	ug/l	100
80) 1,3,5-Trimethylbenzene	12.94	105	25515	2.441	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.62	75	90539	107.672	ug/l #	6
82) 4-Chlorotoluene	12.99	91	23427	2.579	ug/l	99
83) tert-Butylbenzene	13.21	119	20965	2.405	ug/l	98
84) 1,2,4-Trimethylbenzene	13.26	105	25706	2.449	ug/l	97
85) sec-Butylbenzene	13.38	105	31125	2.475	ug/l	100
86) p-Isopropyltoluene	13.50	119	27092	2.401	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	13972	2.630	ug/l	98
88) 1,4-Dichlorobenzene	13.58	146	14420	2.696	ug/l	88
89) n-Butylbenzene	13.83	91	27992	2.487	ug/l	99
90) Hexachloroethane	14.10	117	4891	2.373	ug/l	93
91) 1,2-Dichlorobenzene	13.87	146	12556	2.605	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	1097	2.452	ug/l	85

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW070919\
Quantitation Report (Not Reviewed)

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	8524	2.568	ug/l	99
94) Hexachlorobutadiene	15.24	225	5592	2.744	ug/l	99
95) Naphthalene	15.37	128	14266	2.243	ug/l	98
96) 1,2,3-Trichlorobenzene	15.56	180	7830	2.673	ug/l	98

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

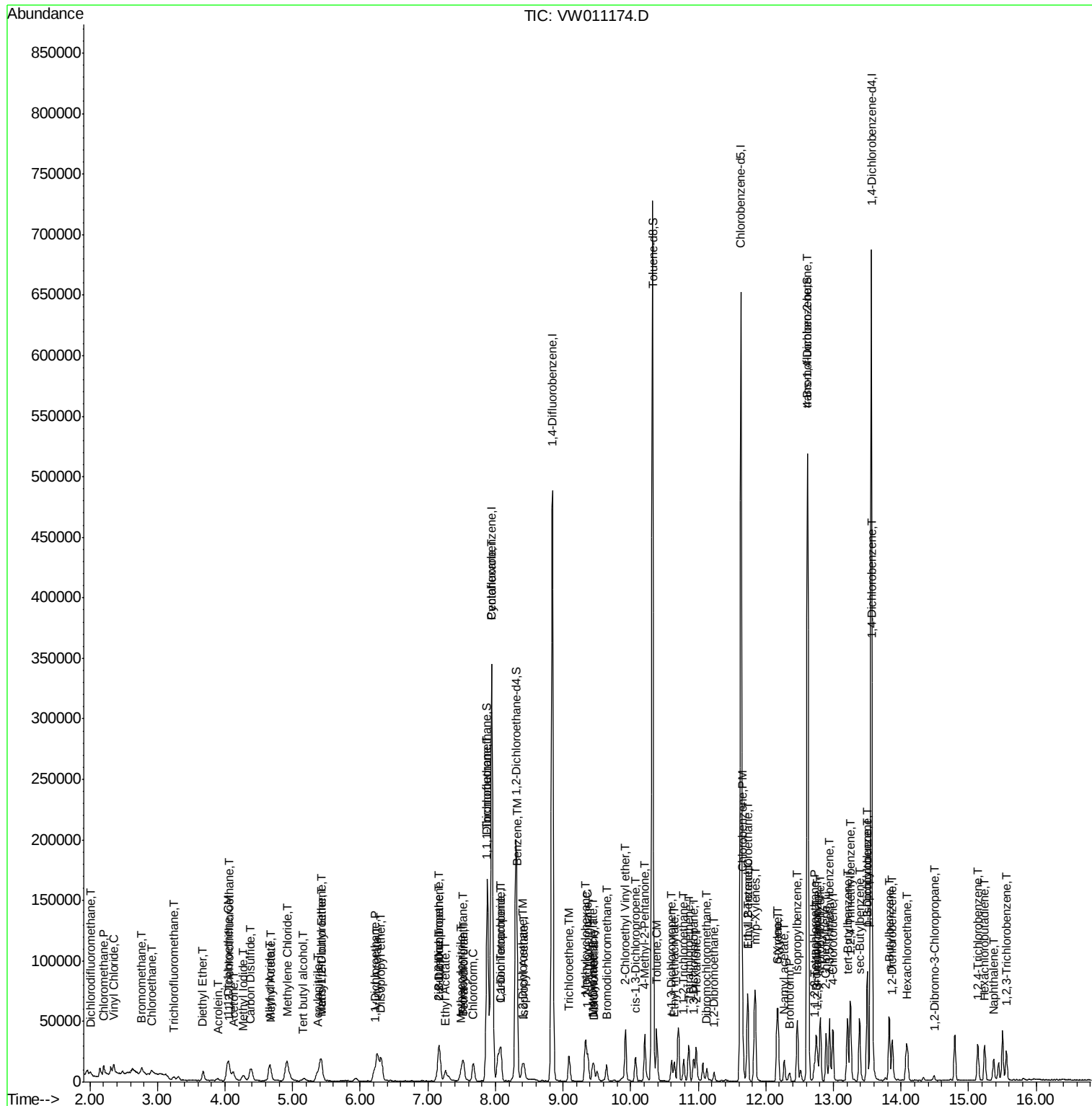
Data File : VW011174.D

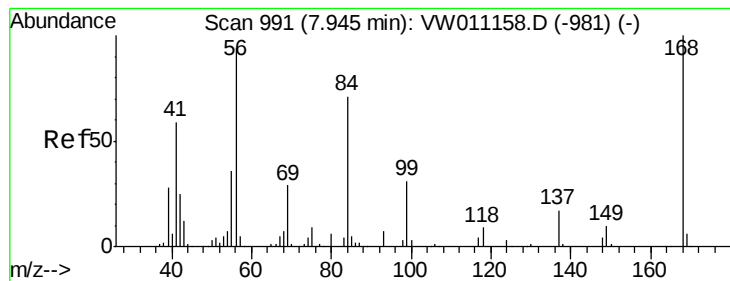
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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

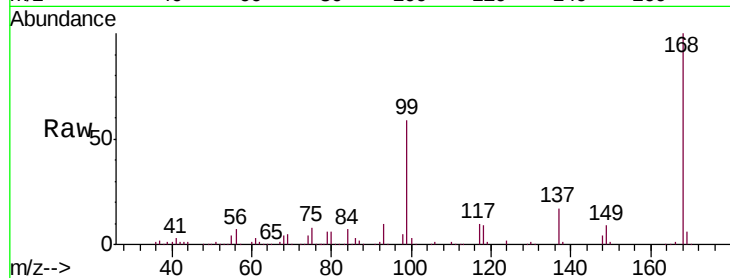
MDL-MDL-SOIL-03-QT3-2019

Tgt Ion: 168 Resp: 233563

Ion Ratio Lower Upper

168 100

99 59.4 50.1 75.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

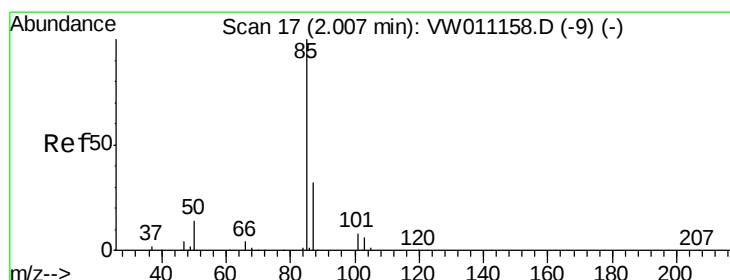
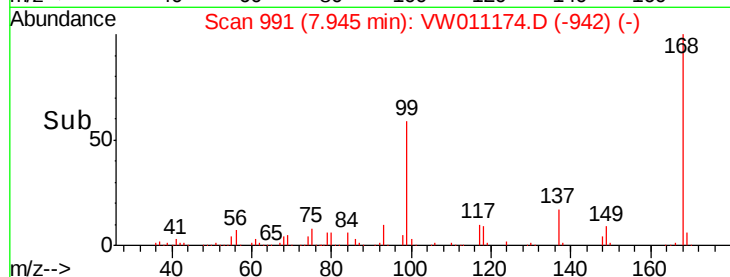
60000

40000

20000

0

Time--> 7.80 7.90 8.00



#2

Dichlorodifluoromethane

Concen: 2.316 ug/l

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW011174.D

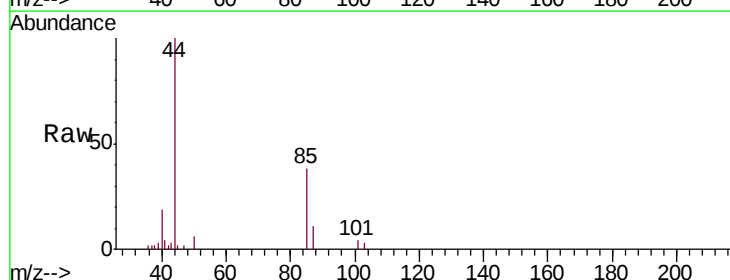
Acq: 09 Jul 2019 12:59

Tgt Ion: 85 Resp: 4035

Ion Ratio Lower Upper

85 100

87 27.7 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

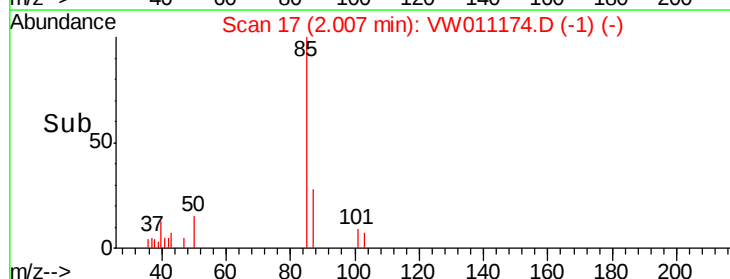
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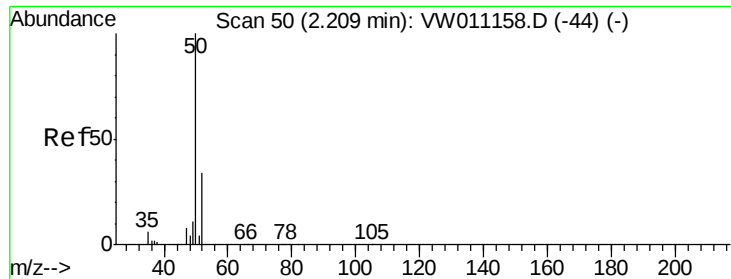
1000

500

0

Time--> 1.95 2.00 2.05 2.10





#3

Chloromethane

Concen: 2.785 ug/l

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

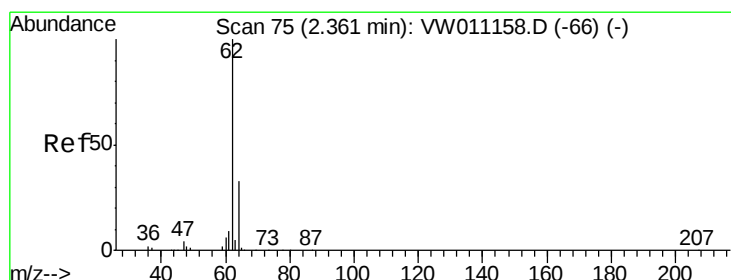
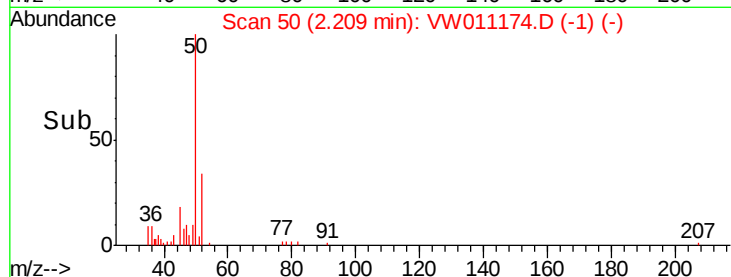
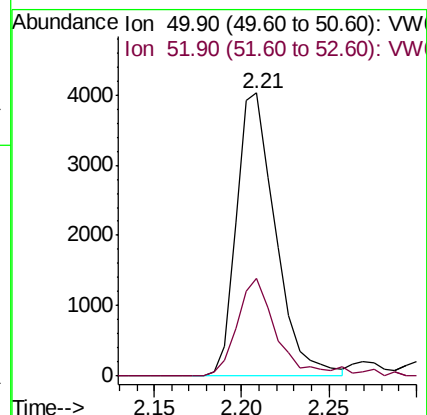
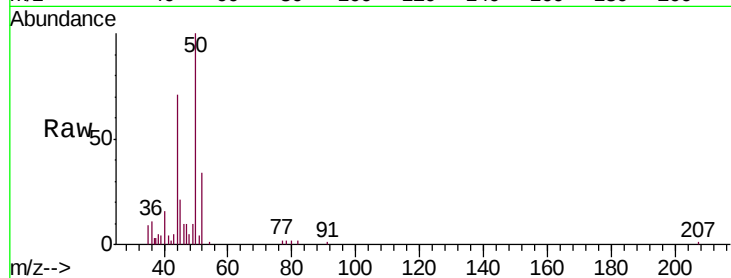
MDL-MDL-SOIL-03-QT3-2019

Tgt Ion: 50 Resp: 6251

Ion Ratio Lower Upper

50 100

52 34.4 26.9 40.3



#4

Vinyl Chloride

Concen: 2.439 ug/l

RT: 2.35 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW011174.D

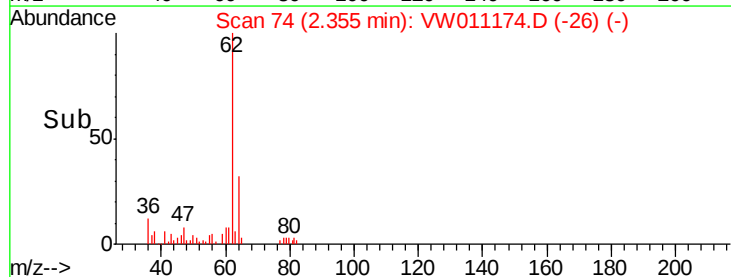
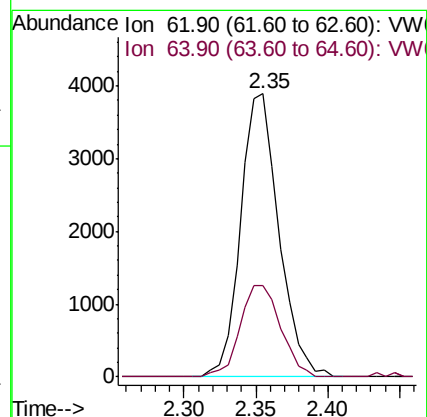
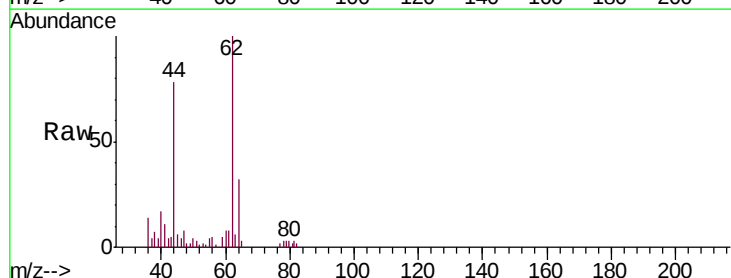
Acq: 09 Jul 2019 12:59

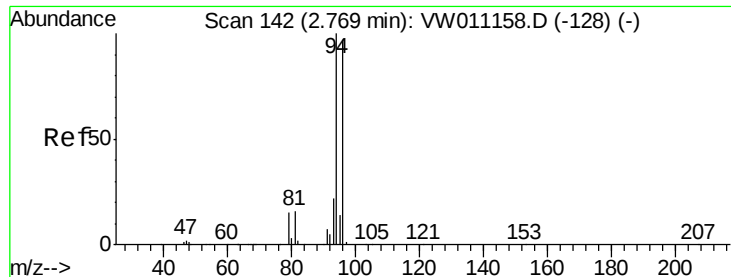
Tgt Ion: 62 Resp: 7165

Ion Ratio Lower Upper

62 100

64 32.5 26.6 40.0





#5

Bromomethane

Concen: 2.894 ug/l

RT: 2.76 min Scan# 141

Delta R.T. -0.01 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

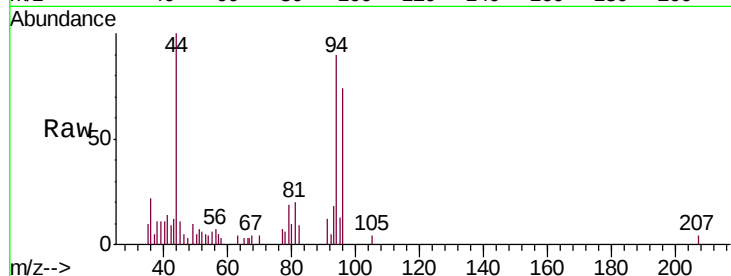
MDL-MDL-SOIL-03-QT3-2019

Tgt Ion: 94 Resp: 4272

Ion Ratio Lower Upper

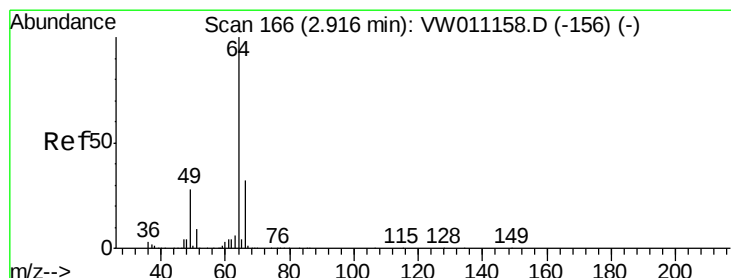
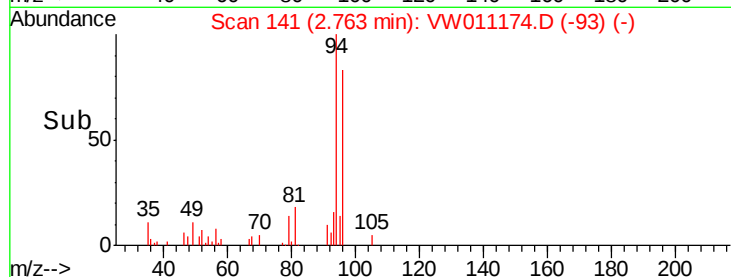
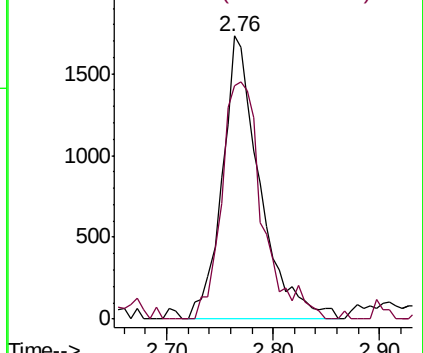
94 100

96 82.6 77.4 116.0



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#6

Chloroethane

Concen: 2.470 ug/l

RT: 2.91 min Scan# 165

Delta R.T. -0.01 min

Lab File: VW011174.D

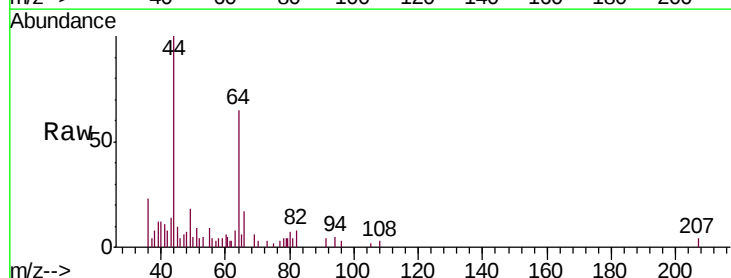
Acq: 09 Jul 2019 12:59

Tgt Ion: 64 Resp: 3908

Ion Ratio Lower Upper

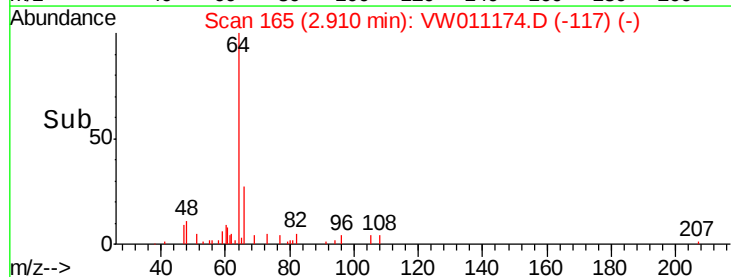
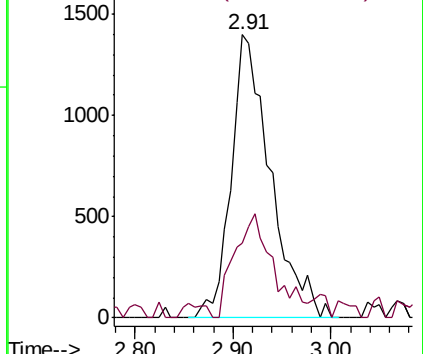
64 100

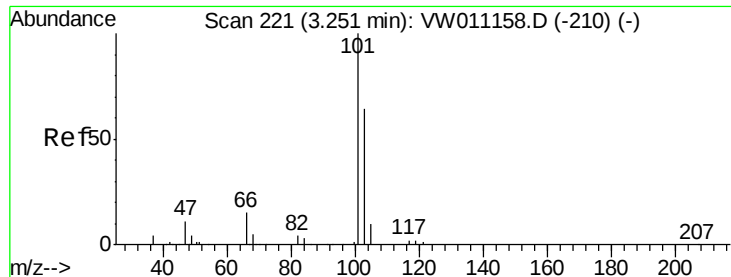
66 21.2 25.8 38.8#



Abundance Ion 63.90 (63.60 to 64.60): VW

Ion 65.90 (65.60 to 66.60): VW





#7

Trichlorofluoromethane

Concen: 2.135 ug/l

RT: 3.25 min Scan# 220

Delta R.T. -0.01 min

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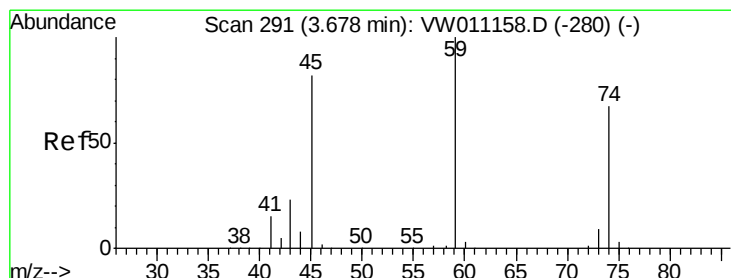
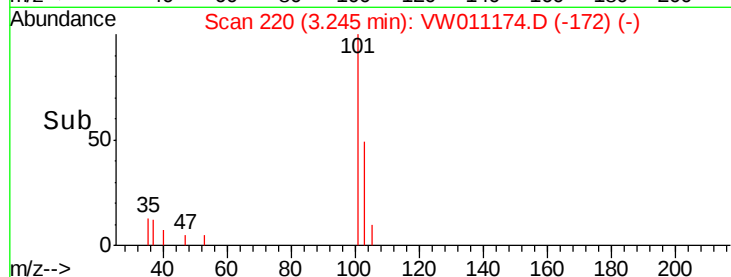
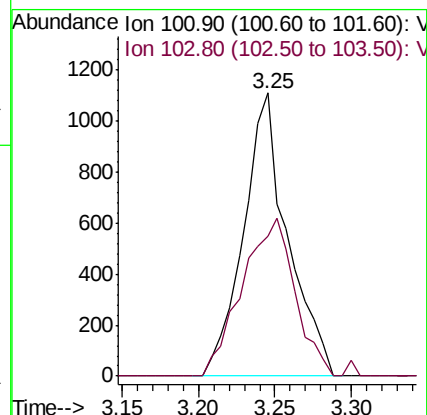
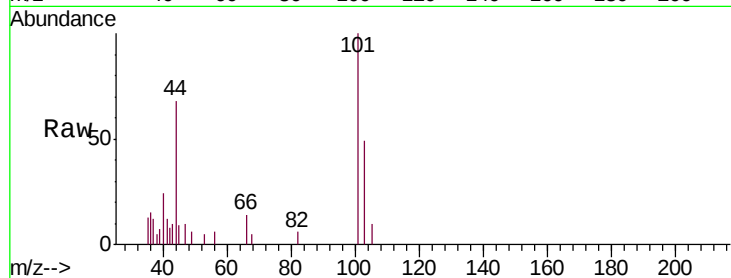
MDL-MDL-SOIL-03-QT3-2019

Tgt Ion: 101 Resp: 2228

Ion Ratio Lower Upper

101 100

103 49.4 51.3 76.9#



#8

Diethyl Ether

Concen: 2.638 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW011174.D

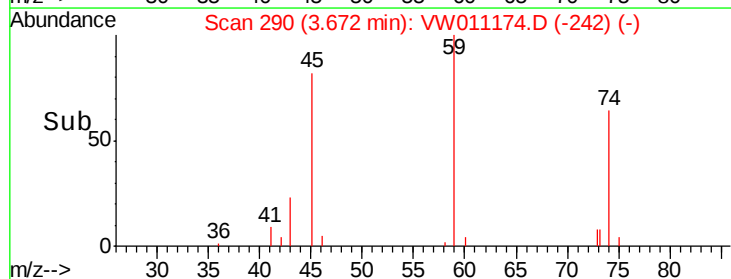
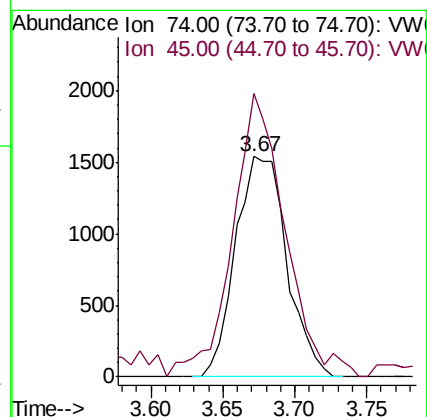
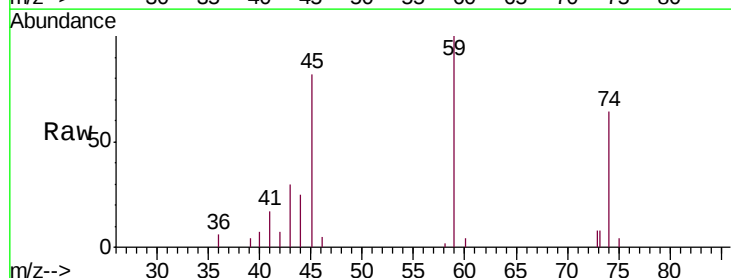
Acq: 09 Jul 2019 12:59

Tgt Ion: 74 Resp: 3809

Ion Ratio Lower Upper

74 100

45 131.9 59.9 179.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.564 ug/l

RT: 4.07 min Scan# 355

Delta R.T. 0.01 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

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MDL-MDL-SOIL-03-QT3-2019

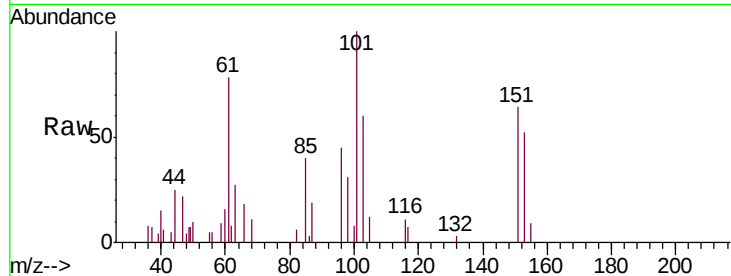
Tgt Ion:101 Resp: 6410

Ion Ratio Lower Upper

101 100

85 41.6 36.5 54.7

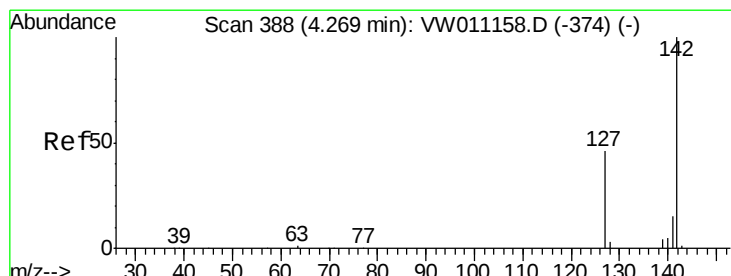
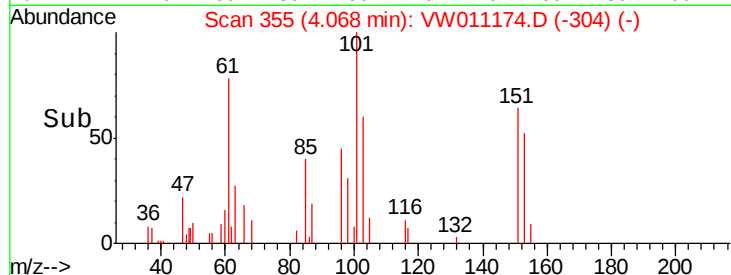
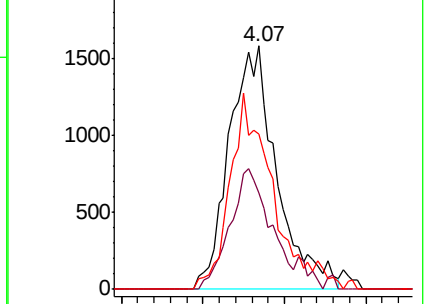
151 71.8 59.1 88.7



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VW

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 2.390 ug/l

RT: 4.27 min Scan# 388

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

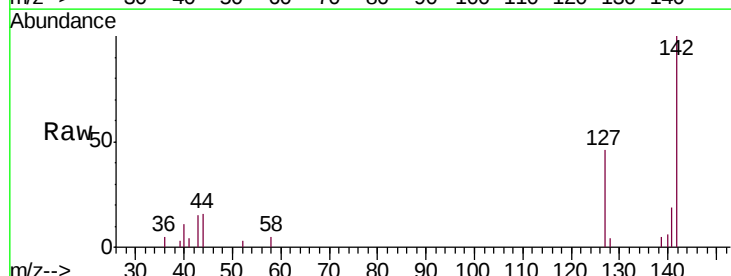
Tgt Ion:142 Resp: 8219

Ion Ratio Lower Upper

142 100

127 44.5 35.7 53.5

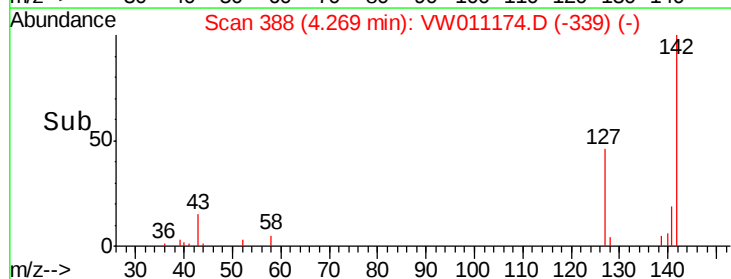
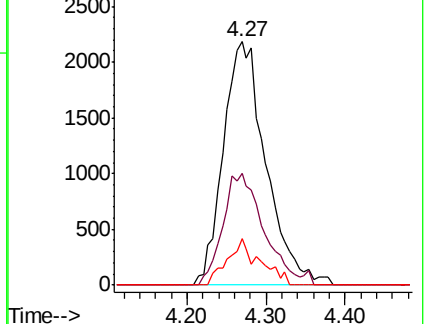
141 14.5 11.5 17.3

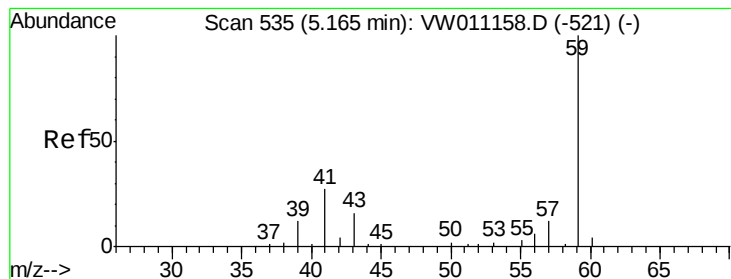


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



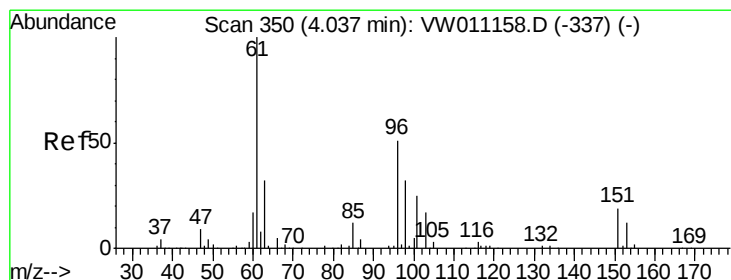
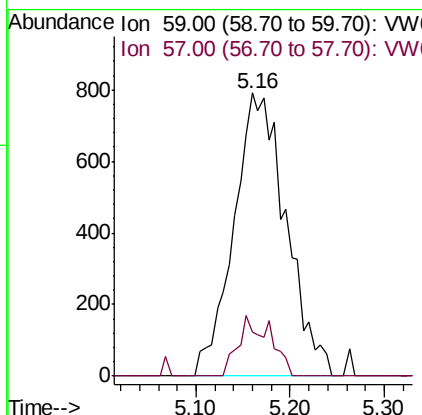
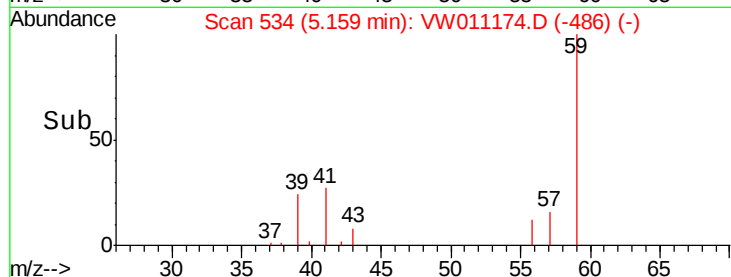
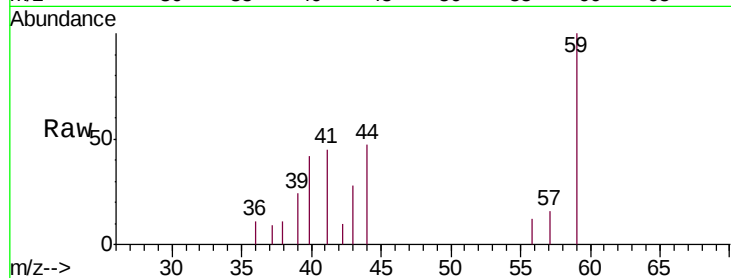


#11

Tert butyl alcohol
 Concen: 14.097 ug/l
 RT: 5.16 min Scan# 534
 Delta R.T. -0.01 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT3-2019

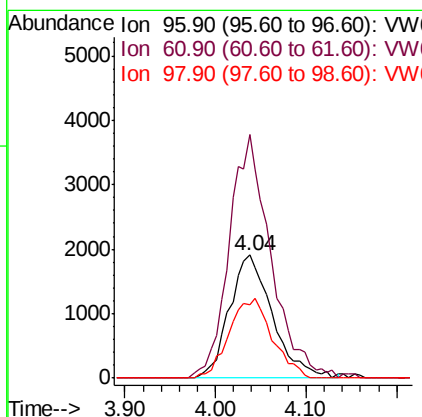
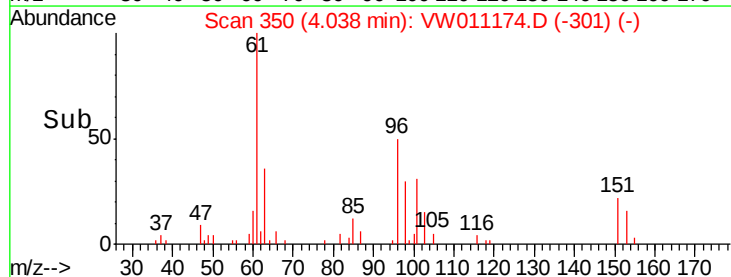
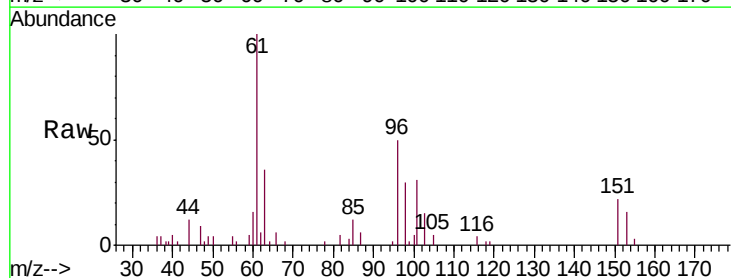
Tgt Ion: 59 Resp: 3063
 Ion Ratio Lower Upper
 59 100
 57 13.1 9.0 13.6

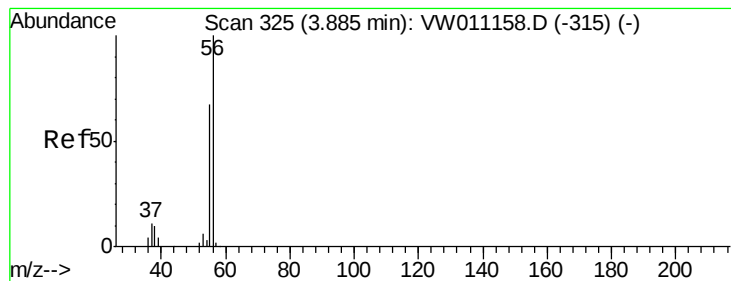


#12

1,1-Dichloroethene
 Concen: 2.423 ug/l
 RT: 4.04 min Scan# 350
 Delta R.T. 0.00 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

Tgt Ion: 96 Resp: 6287
 Ion Ratio Lower Upper
 96 100
 61 198.2 157.7 236.5
 98 59.2 50.9 76.3





#13

Acrolein

Concen: 14.143 ug/l

RT: 3.89 min Scan# 325

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

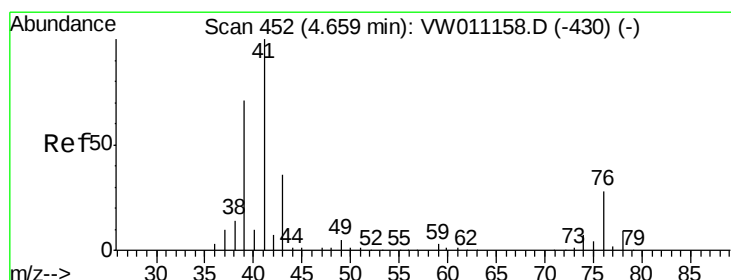
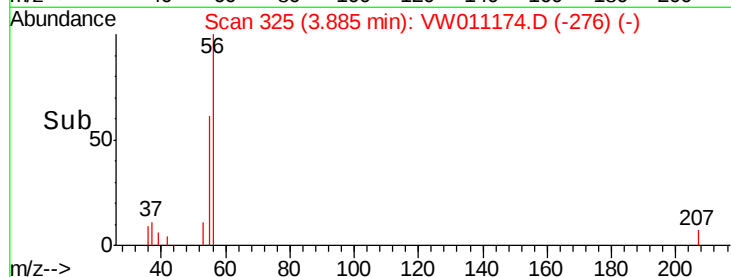
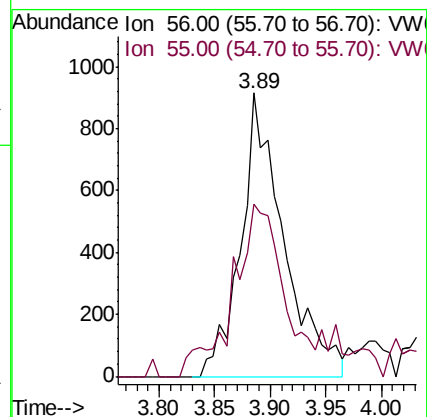
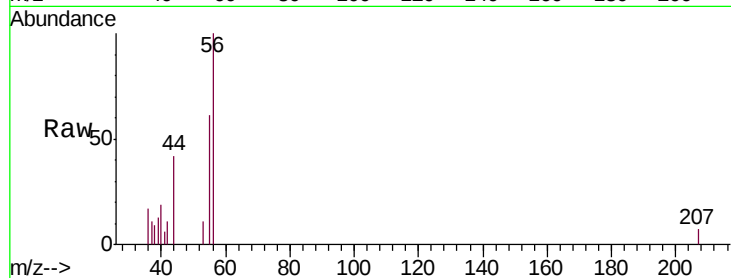
MDL-MDL-SOIL-03-QT3-2019

Tgt Ion: 56 Resp: 2447

Ion Ratio Lower Upper

56 100

55 71.6 56.4 84.6



#14

Allyl chloride

Concen: 2.288 ug/l

RT: 4.67 min Scan# 453

Delta R.T. 0.01 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

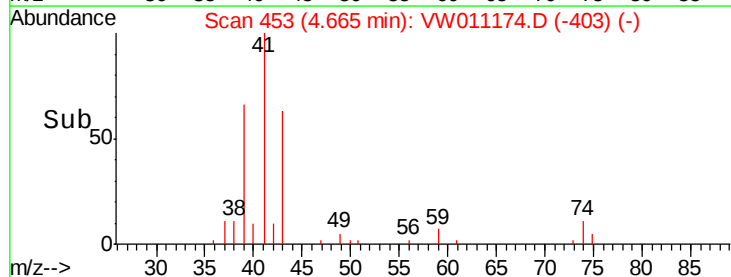
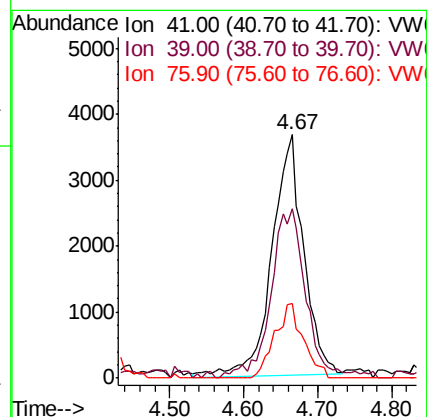
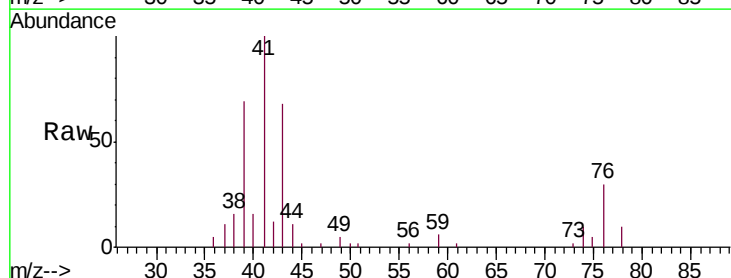
Tgt Ion: 41 Resp: 10827

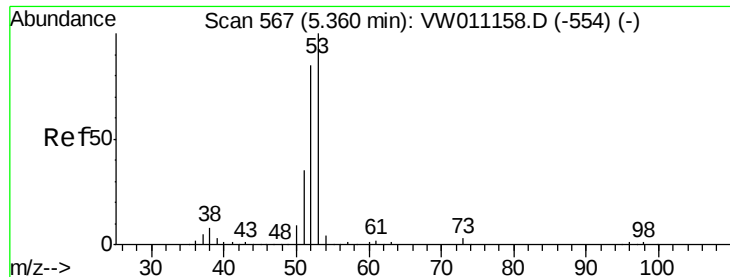
Ion Ratio Lower Upper

41 100

39 76.9 55.1 82.7

76 27.8 22.5 33.7





#15

Acrylonitrile

Concen: 11.922 ug/l

RT: 5.37 min Scan# 568

Delta R.T. 0.01 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

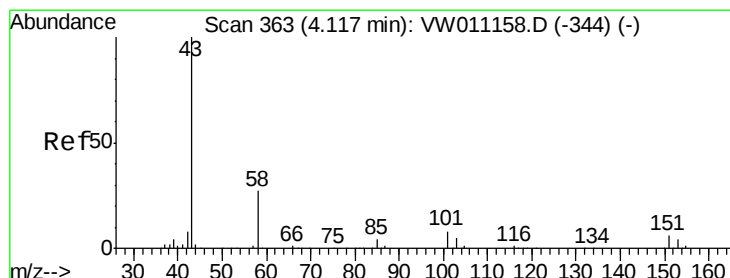
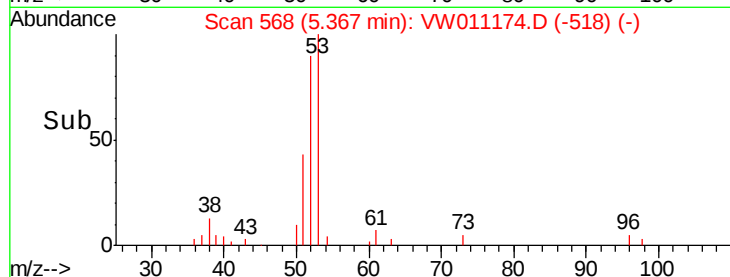
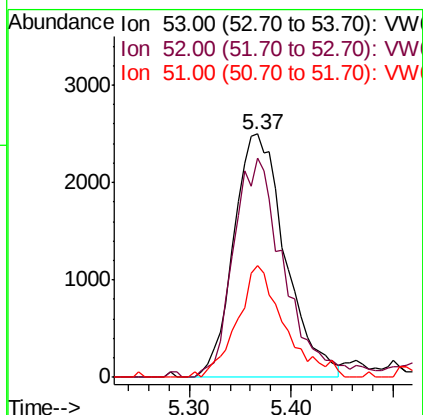
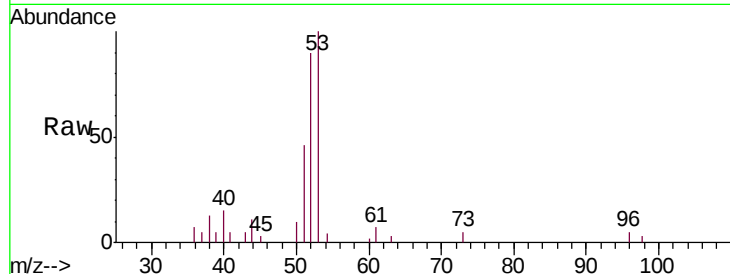
Tgt Ion: 53 Resp: 8768

Ion Ratio Lower Upper

53 100

52 87.3 66.2 99.4

51 41.6 29.1 43.7



#16

Acetone

Concen: 16.174 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW011174.D

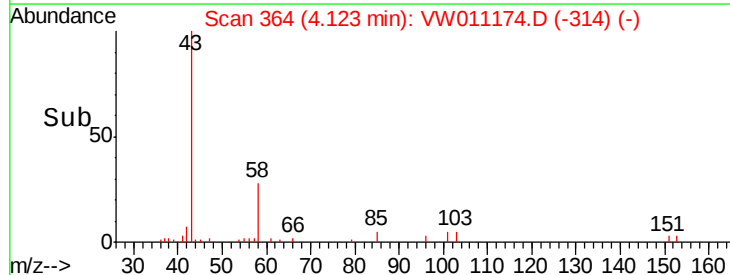
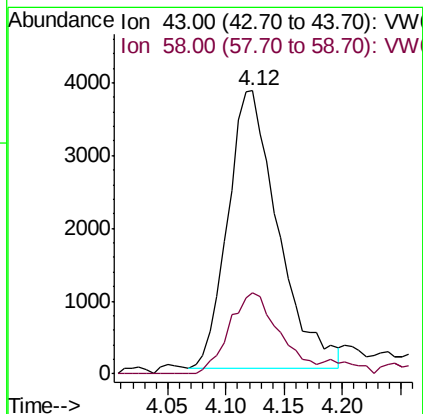
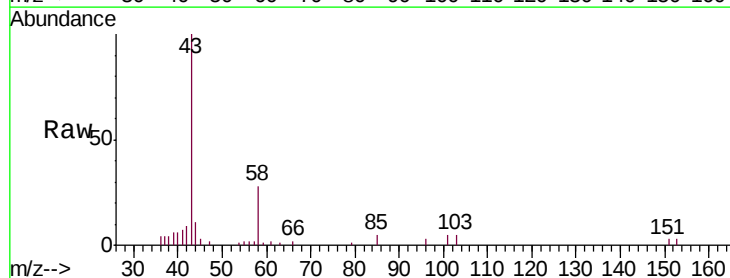
Acq: 09 Jul 2019 12:59

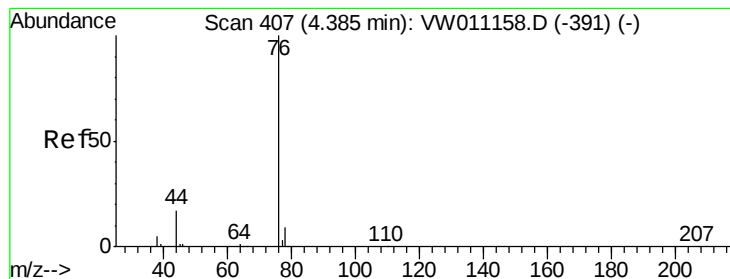
Tgt Ion: 43 Resp: 11421

Ion Ratio Lower Upper

43 100

58 29.1 21.8 32.6





#17

Carbon Disulfide

Concen: 2.278 ug/l

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

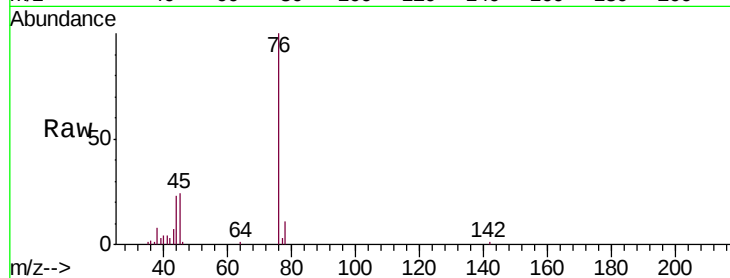
MDL-MDL-SOIL-03-QT3-2019

Tgt Ion: 76 Resp: 17922

Ion Ratio Lower Upper

76 100

78 10.9 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW

4.38

6000

5000

4000

3000

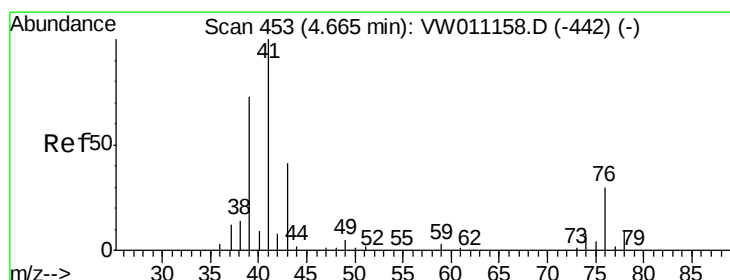
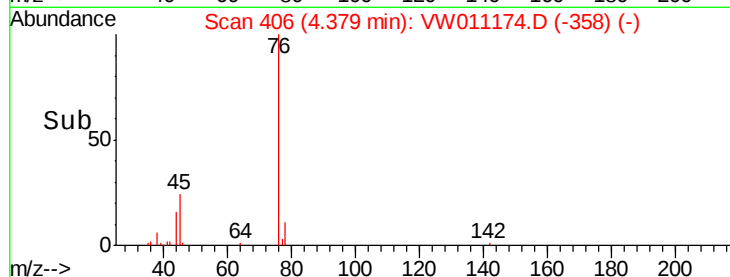
2000

1000

0

4.30 4.40 4.50

Time-->



#18

Methyl Acetate

Concen: 2.599 ug/l

RT: 4.68 min Scan# 455

Delta R.T. 0.01 min

Lab File: VW011174.D

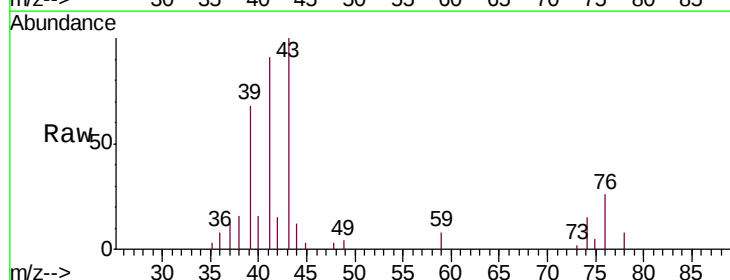
Acq: 09 Jul 2019 12:59

Tgt Ion: 43 Resp: 7909

Ion Ratio Lower Upper

43 100

74 8.0 15.7 23.5#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

4.68

3000

2500

2000

1500

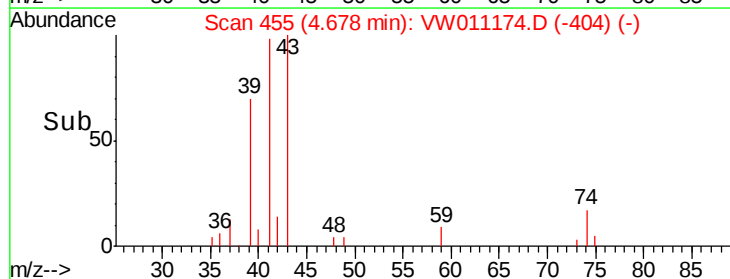
1000

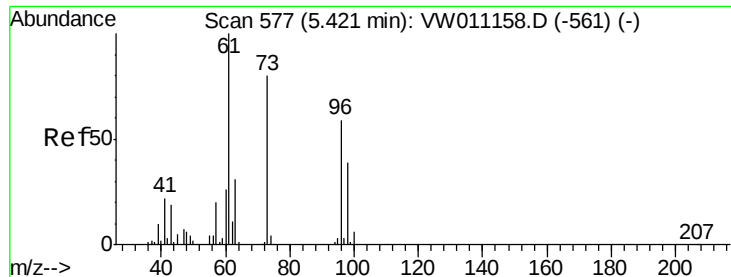
500

0

4.60 4.70 4.80

Time-->

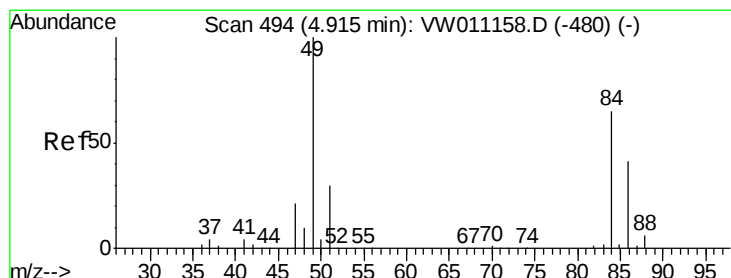
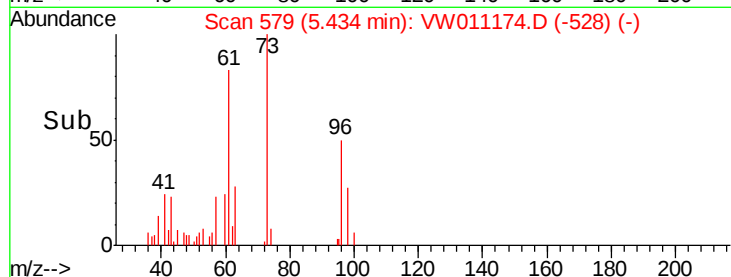
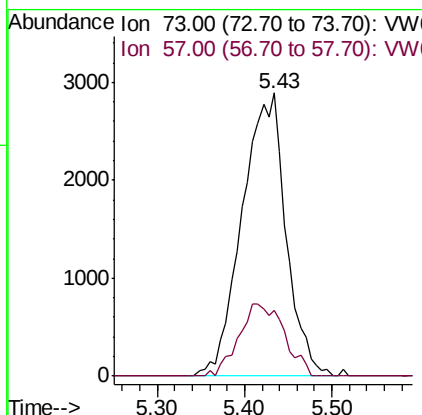
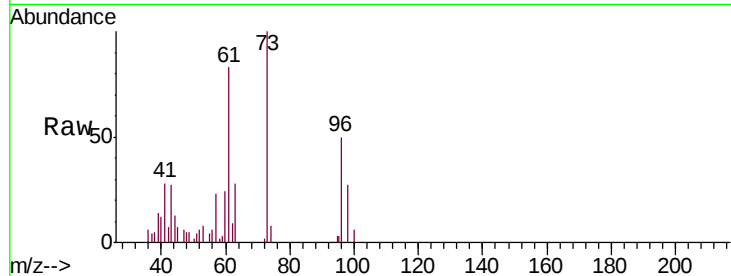




#19
Methyl tert-butyl Ether
Concen: 2.561 ug/l
RT: 5.43 min Scan# 579
Delta R.T. 0.01 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

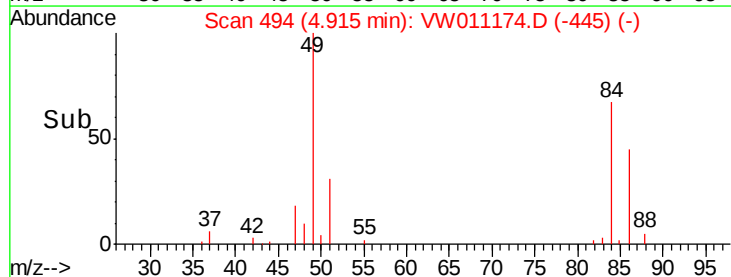
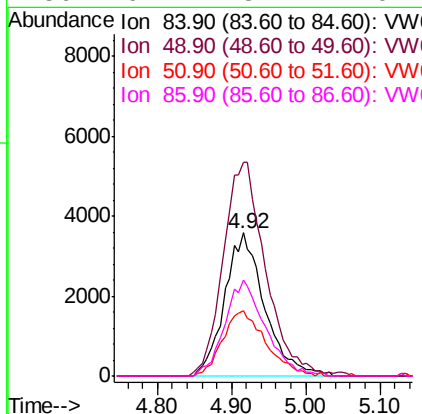
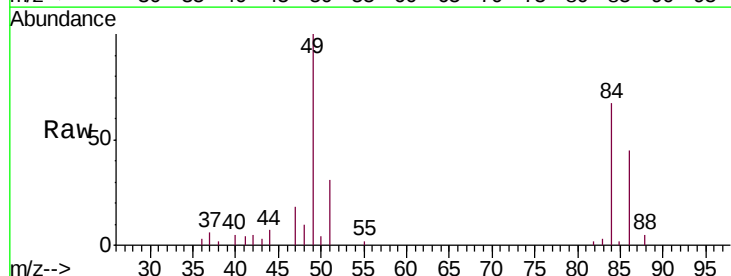
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

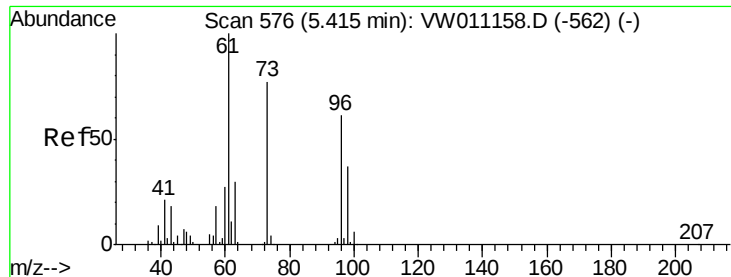
Tgt Ion: 73 Resp: 10083
Ion Ratio Lower Upper
73 100
57 23.0 19.7 29.5



#20
Methylene Chloride
Concen: 4.808 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion: 84 Resp: 13393
Ion Ratio Lower Upper
84 100
49 149.6 123.8 185.6
51 45.7 37.4 56.2
86 67.4 51.1 76.7





#21

trans-1,2-Dichloroethene

Concen: 2.528 ug/l

RT: 5.42 min Scan# 577

Delta R.T. 0.01 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

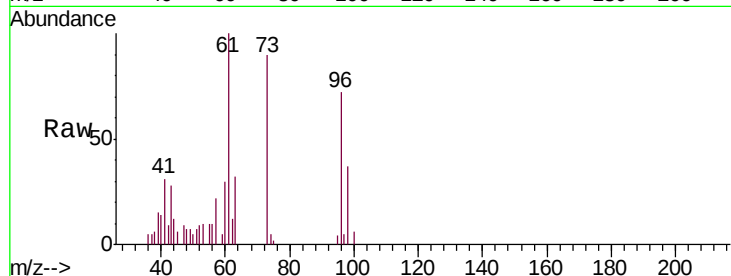
Tgt Ion: 96 Resp: 6816

Ion Ratio Lower Upper

96 100

61 139.0 132.2 198.2

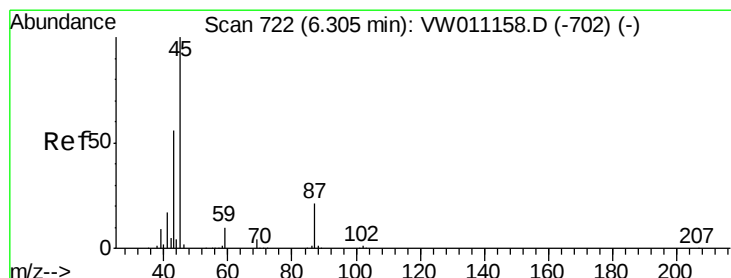
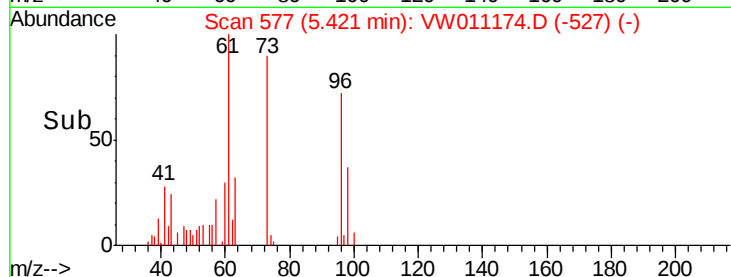
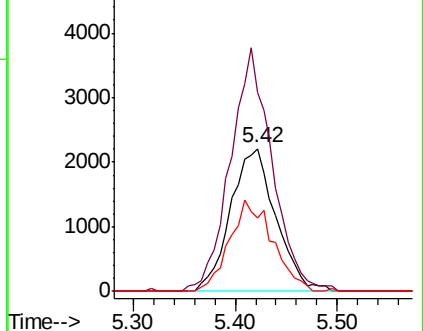
98 51.6 49.4 74.0



Abundance Ion 95.90 (95.60 to 96.60): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 97.90 (97.60 to 98.60): VW



#22

Diisopropyl ether

Concen: 2.389 ug/l

RT: 6.31 min Scan# 722

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Tgt Ion: 45 Resp: 24315

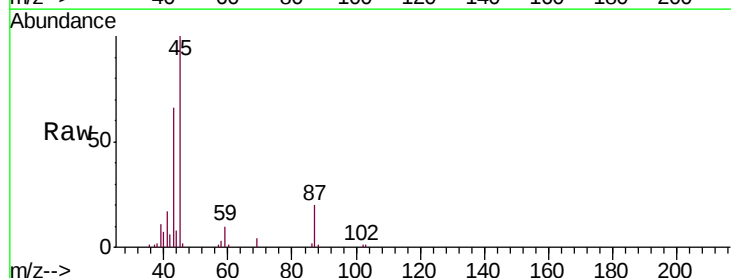
Ion Ratio Lower Upper

45 100

43 63.5 44.6 66.8

87 19.7 17.3 25.9

59 9.9 8.2 12.2

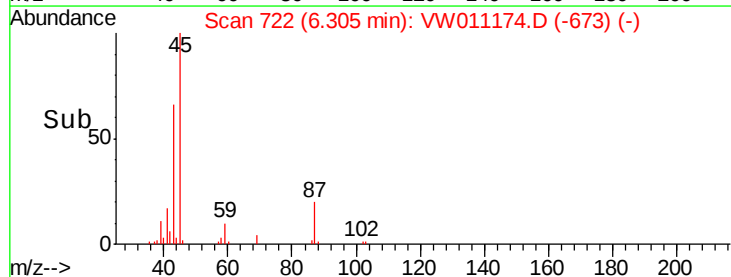
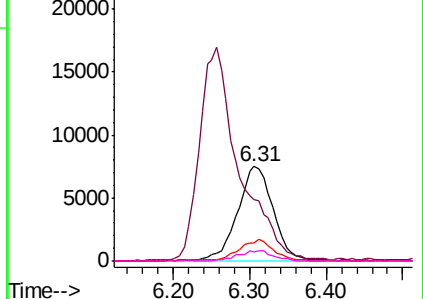


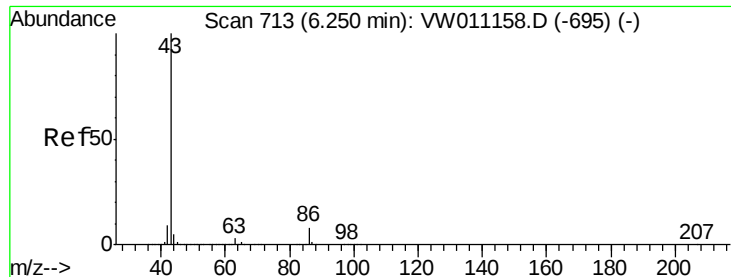
Abundance Ion 45.00 (44.70 to 45.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 87.00 (86.70 to 87.70): VW

Ion 59.00 (58.70 to 59.70): VW





#23

Vinyl Acetate

Concen: 9.750 ug/l

RT: 6.26 min Scan# 714

Delta R.T. 0.01 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

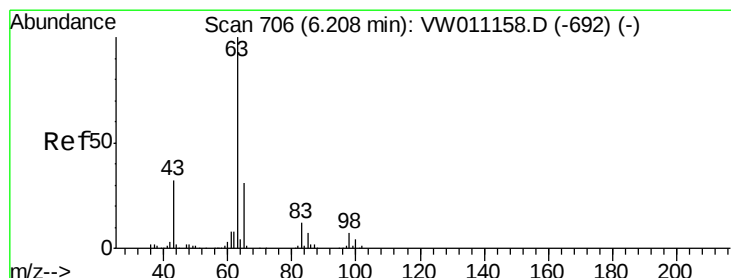
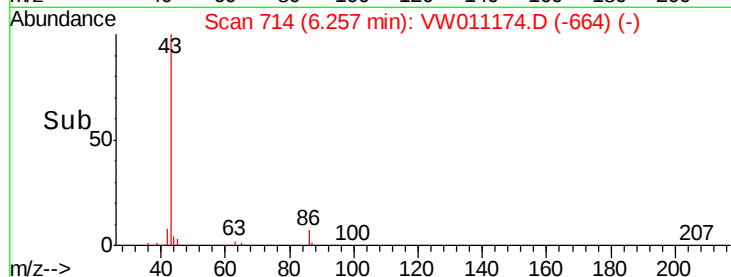
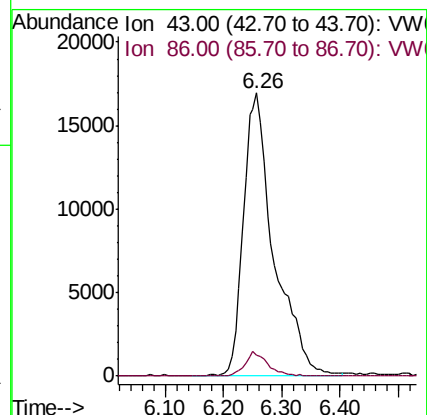
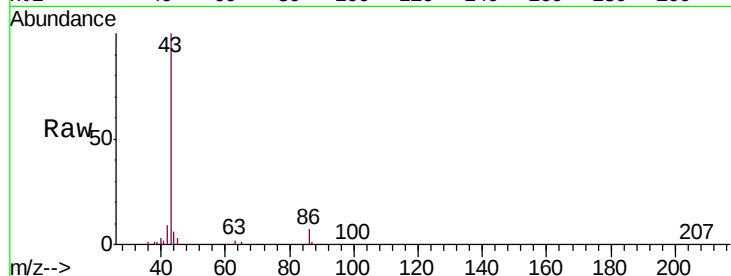
MDL-MDL-SOIL-03-QT3-2019

Tgt Ion: 43 Resp: 61405

Ion Ratio Lower Upper

43 100

86 7.4 6.5 9.7



#24

1,1-Dichloroethane

Concen: 2.459 ug/l

RT: 6.21 min Scan# 707

Delta R.T. 0.01 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

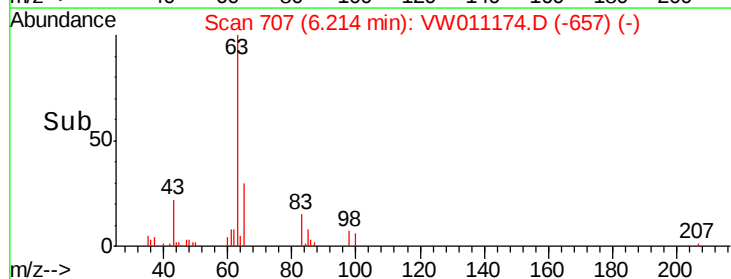
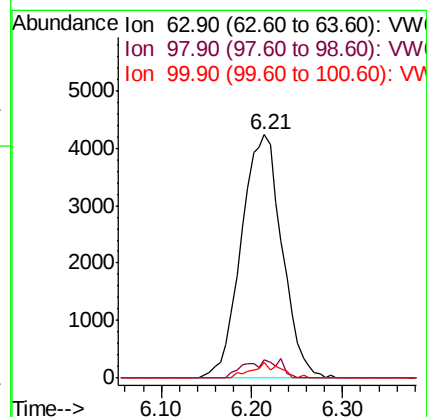
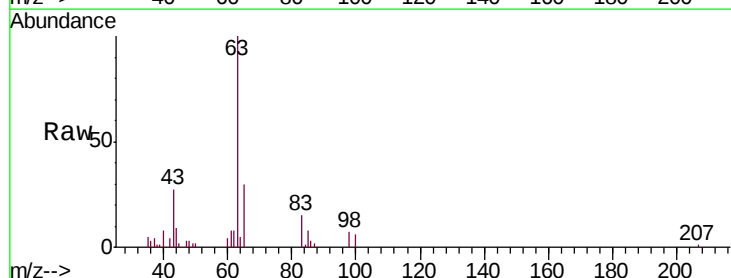
Tgt Ion: 63 Resp: 13141

Ion Ratio Lower Upper

63 100

98 7.5 3.3 9.9

100 6.4 2.1 6.2#





#25

2-Butanone

Concen: 12.580 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

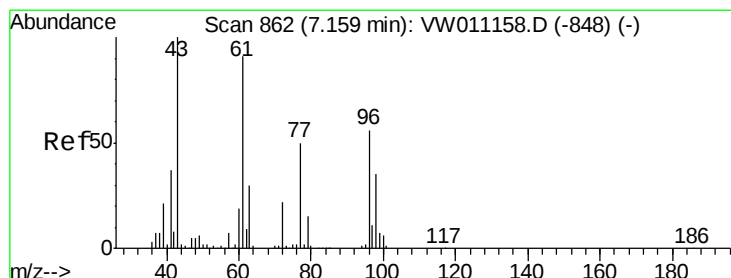
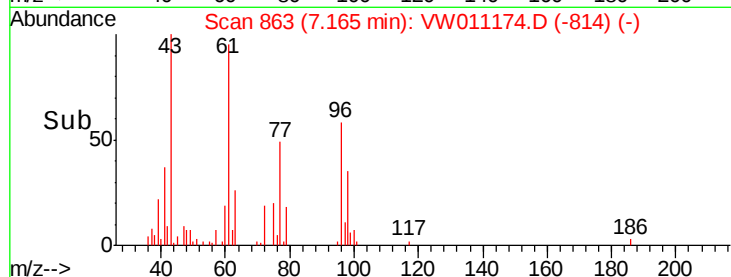
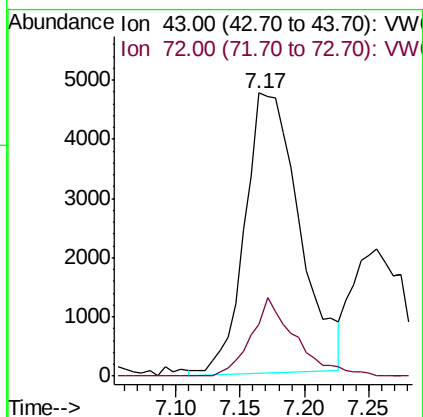
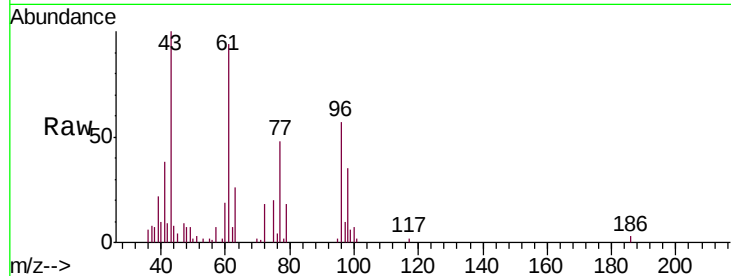
MDL-MDL-SOIL-03-QT3-2019

Tgt Ion: 43 Resp: 13945

Ion Ratio Lower Upper

43 100

72 18.8 17.6 26.4



#26

2,2-Dichloropropane

Concen: 2.440 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.01 min

Lab File: VW011174.D

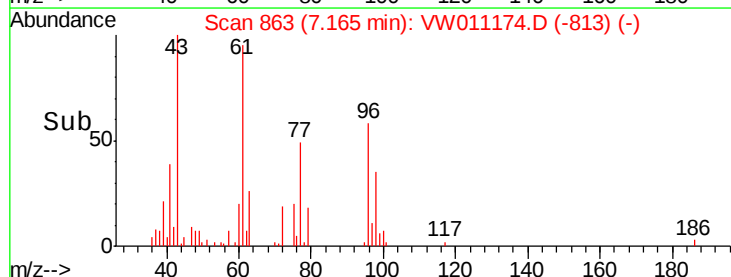
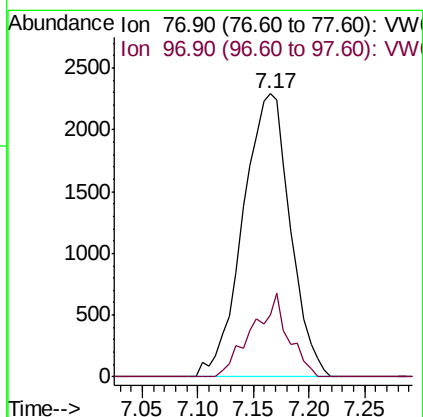
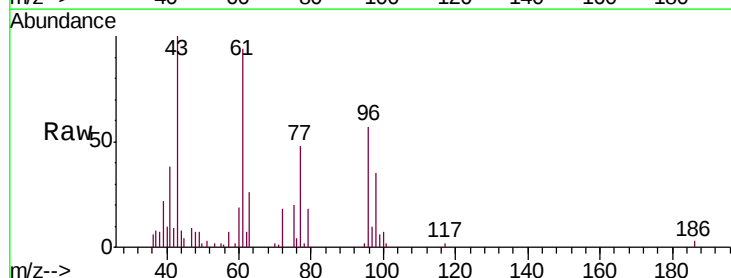
Acq: 09 Jul 2019 12:59

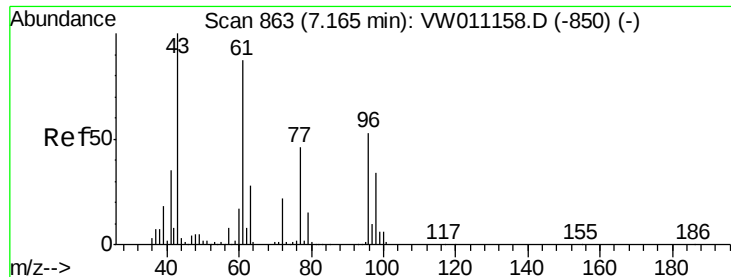
Tgt Ion: 77 Resp: 6777

Ion Ratio Lower Upper

77 100

97 22.8 11.2 33.5

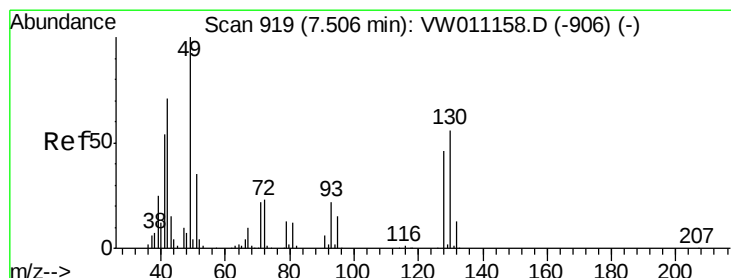
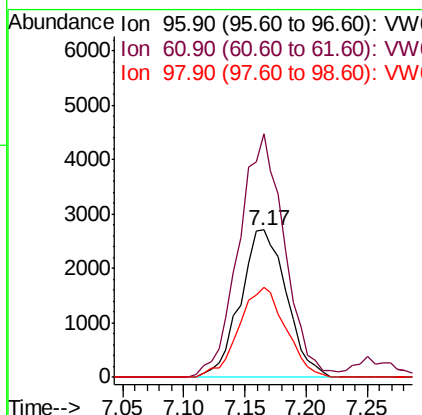
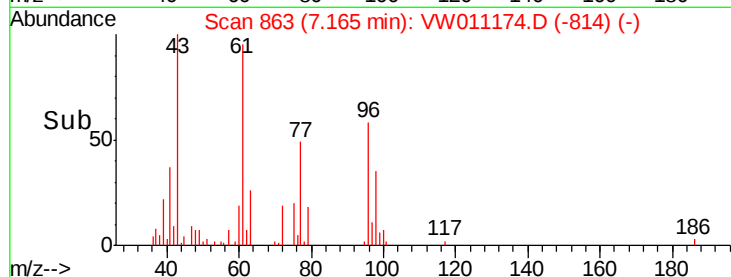
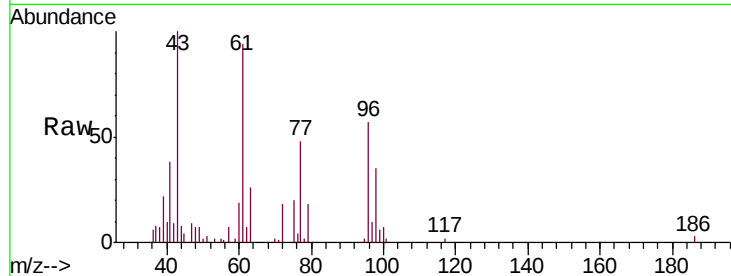




#27
 cis-1,2-Dichloroethene
 Concen: 2.441 ug/l
 RT: 7.17 min Scan# 863
 Delta R.T. 0.00 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

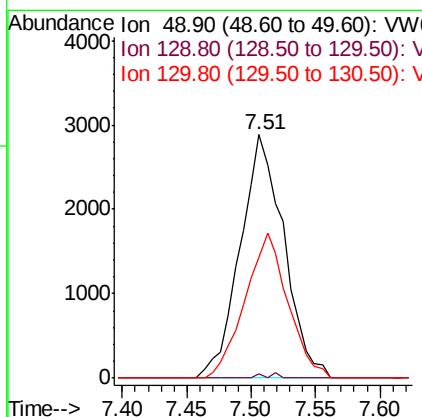
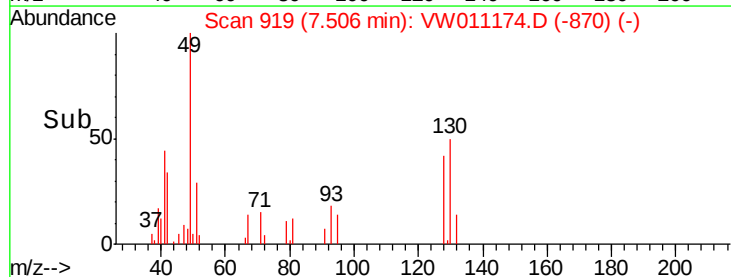
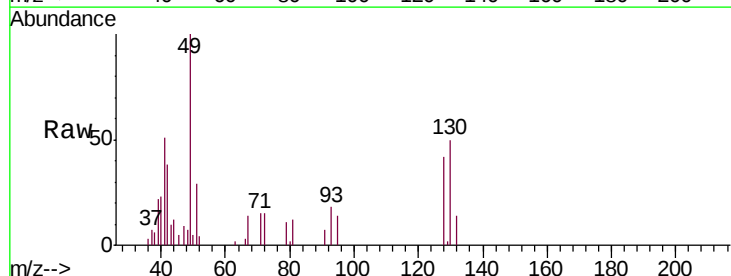
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT3-2019

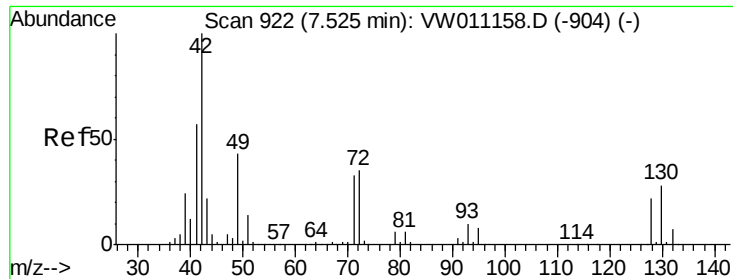
Tgt Ion: 96 Resp: 7099
 Ion Ratio Lower Upper
 96 100
 61 164.3 0.0 325.6
 98 61.9 0.0 128.2



#28
 Bromochloromethane
 Concen: 2.782 ug/l
 RT: 7.51 min Scan# 919
 Delta R.T. 0.00 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

Tgt Ion: 49 Resp: 6759
 Ion Ratio Lower Upper
 49 100
 129 0.6 0.0 1.4
 130 58.5 45.8 68.8

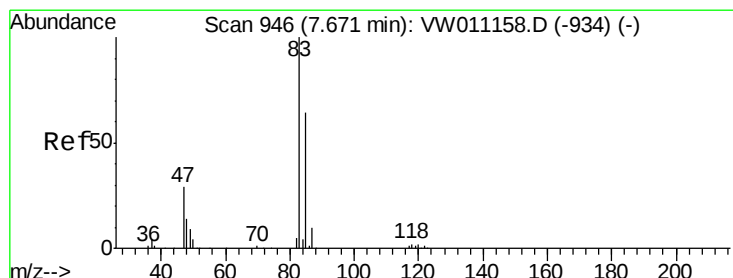
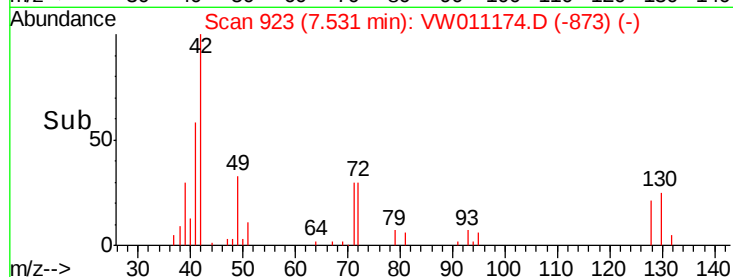
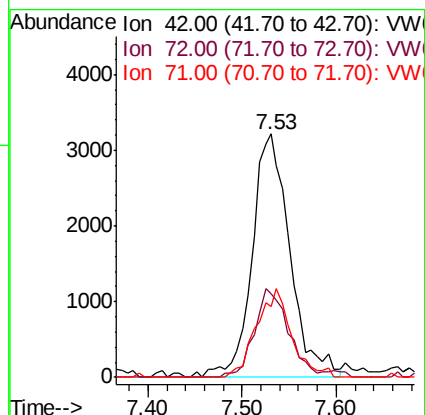
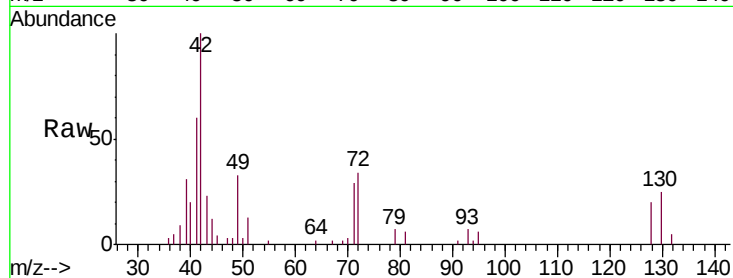




#29
Tetrahydrofuran
Concen: 12.472 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.01 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

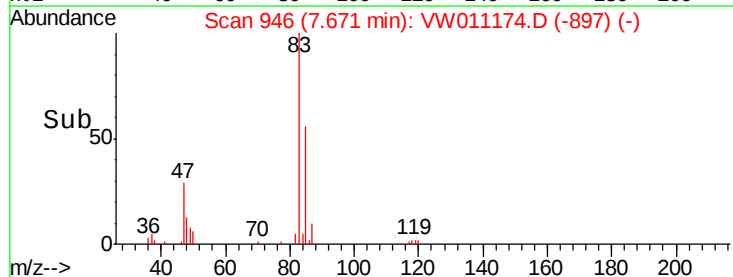
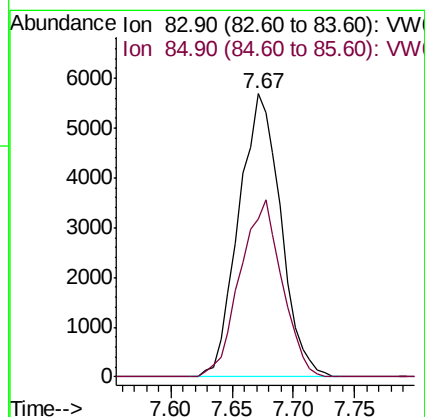
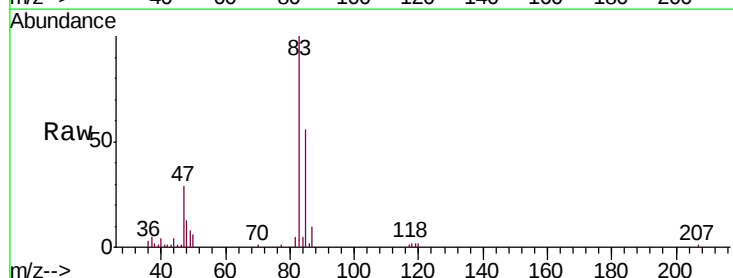
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

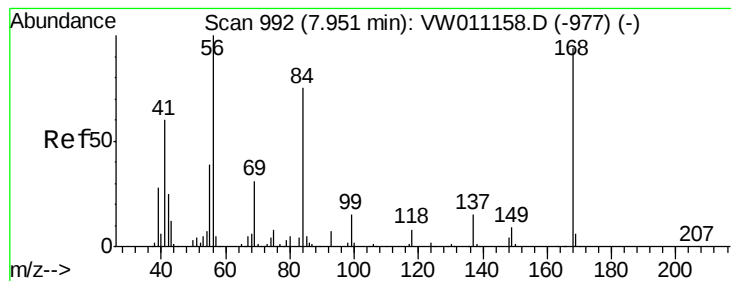
Tgt Ion: 42 Resp: 9065
Ion Ratio Lower Upper
42 100
72 33.0 27.4 41.2
71 33.5 25.9 38.9



#30
Chloroform
Concen: 2.743 ug/l
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion: 83 Resp: 13576
Ion Ratio Lower Upper
83 100
85 55.8 51.4 77.2





#31

Cyclohexane

Concen: 3.331 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

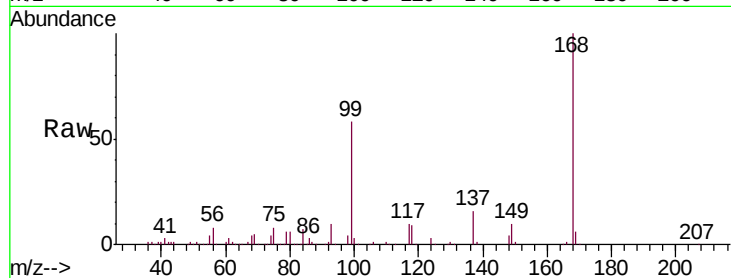
Tgt Ion: 56 Resp: 18939

Ion Ratio Lower Upper

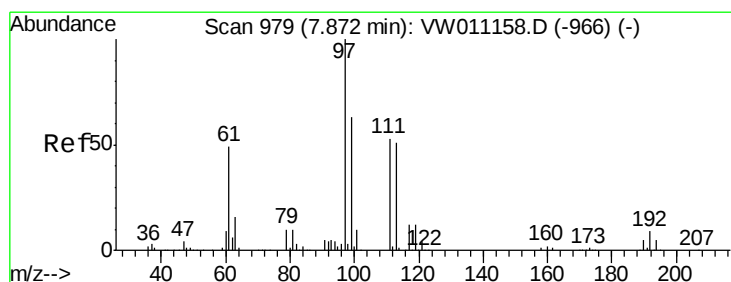
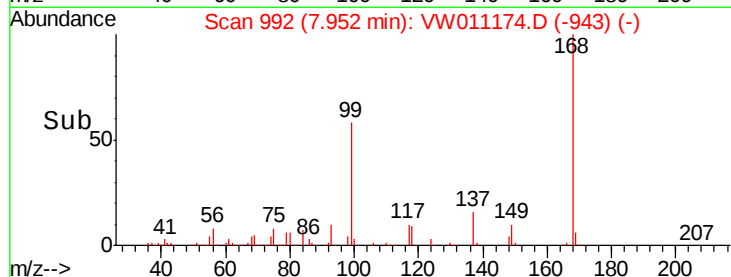
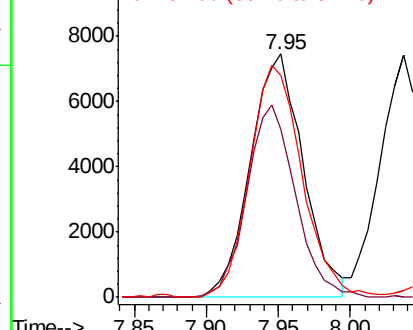
56 100

69 69.0 24.6 36.8#

84 91.0 60.1 90.1#



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



#32

1,1,1-Trichloroethane

Concen: 2.425 ug/l

RT: 7.87 min Scan# 978

Delta R.T. -0.01 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

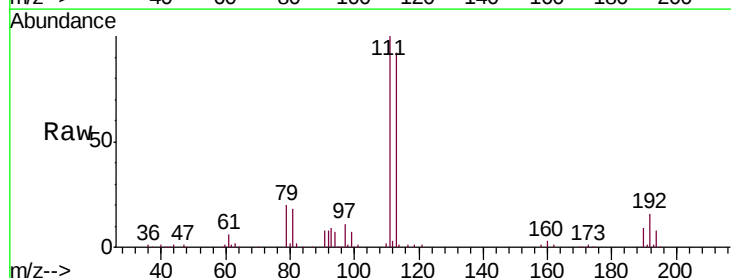
Tgt Ion: 97 Resp: 9128

Ion Ratio Lower Upper

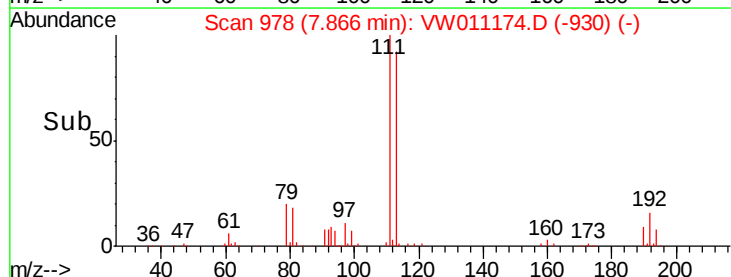
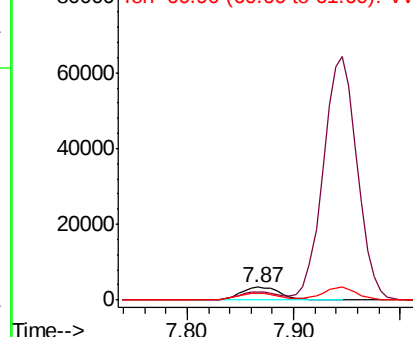
97 100

99 59.9 51.0 76.4

61 53.9 40.4 60.6



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





#33

1,2-Dichloroethane-d4

Concen: 49.288 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

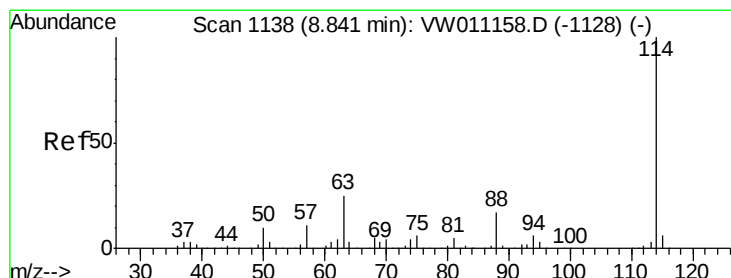
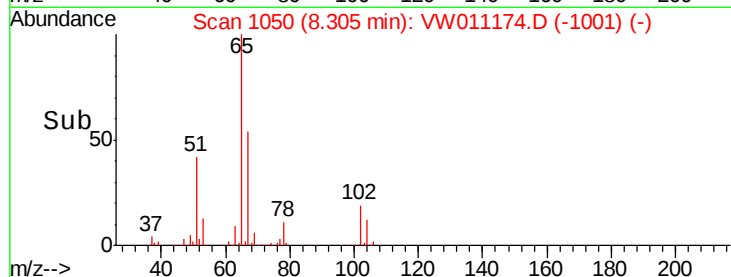
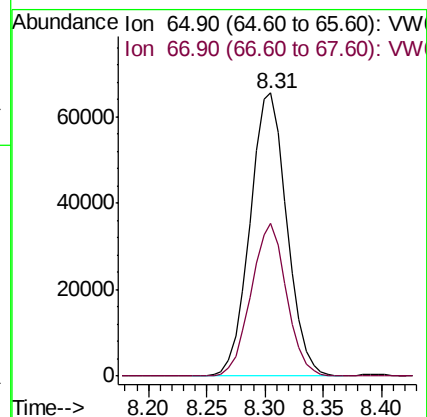
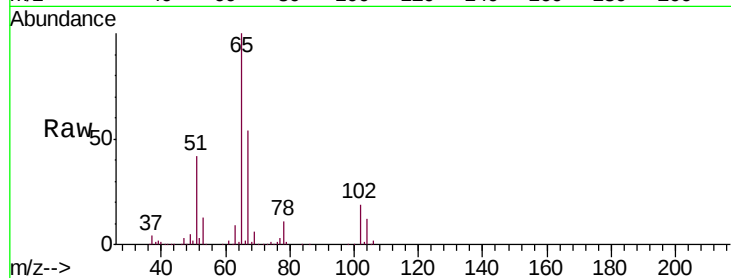
MDL-MDL-SOIL-03-QT3-2019

Tgt Ion: 65 Resp: 144651

Ion Ratio Lower Upper

65 100

67 52.0 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

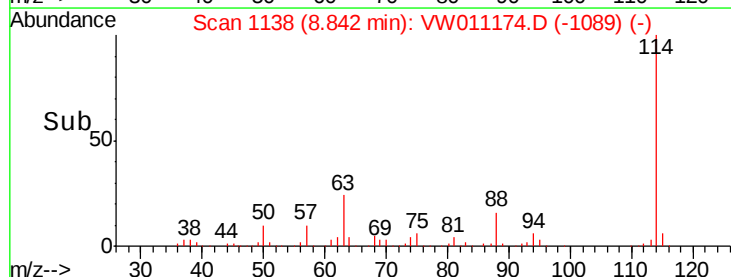
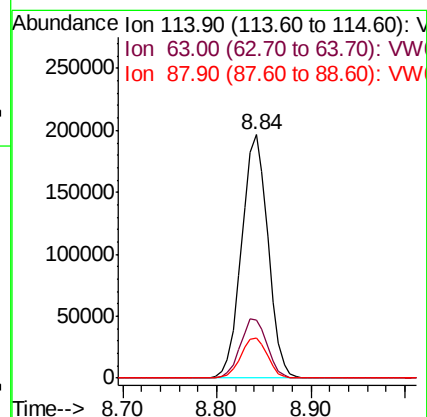
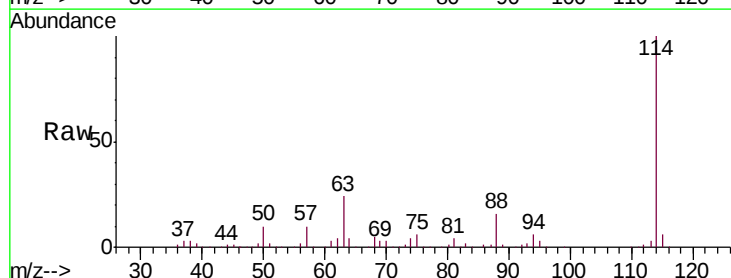
Tgt Ion: 114 Resp: 383411

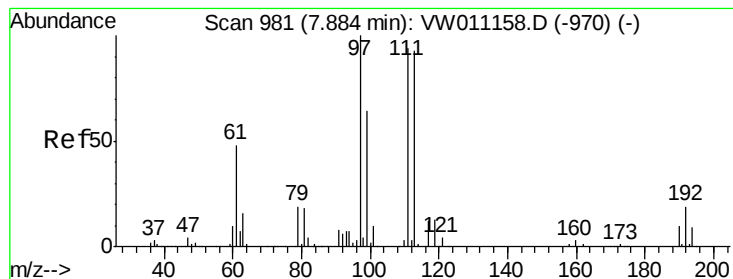
Ion Ratio Lower Upper

114 100

63 24.0 0.0 50.8

88 16.2 0.0 34.2





#35

Dibromofluoromethane

Concen: 48.827 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

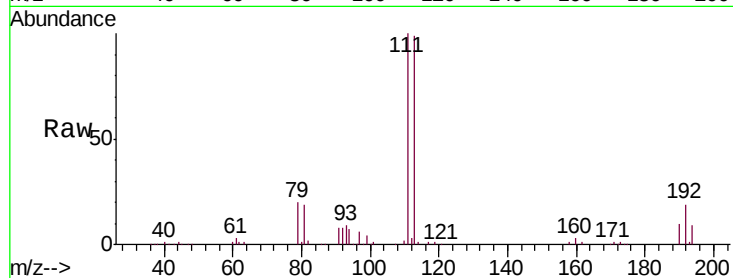
Tgt Ion:113 Resp: 111585

Ion Ratio Lower Upper

113 100

111 102.6 82.4 123.6

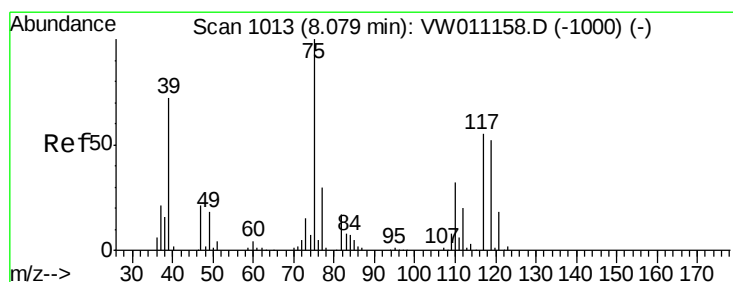
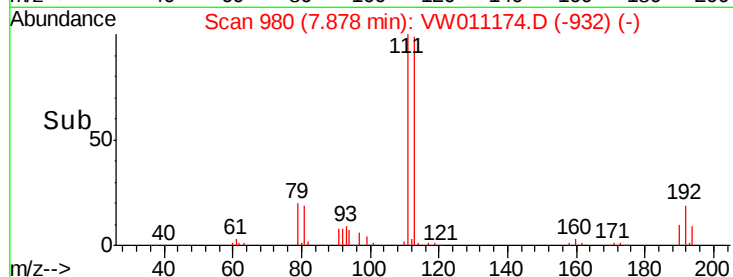
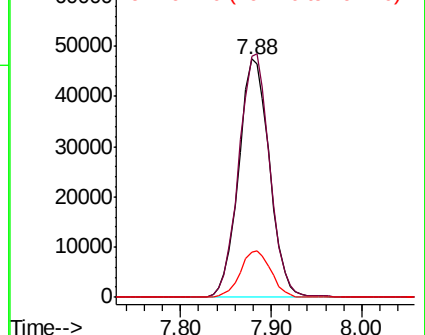
192 19.5 15.8 23.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 2.523 ug/l

RT: 8.08 min Scan# 1013

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

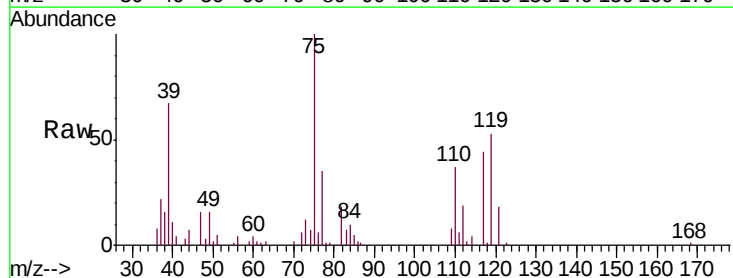
Tgt Ion: 75 Resp: 10300

Ion Ratio Lower Upper

75 100

110 32.2 15.9 47.6

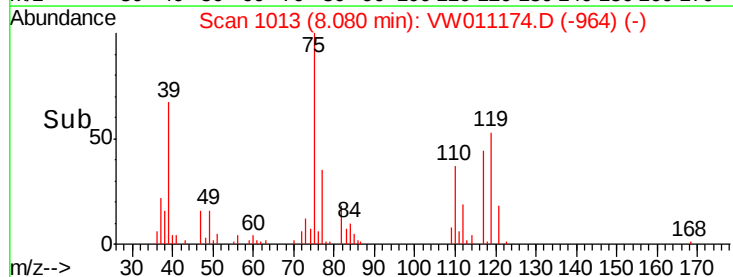
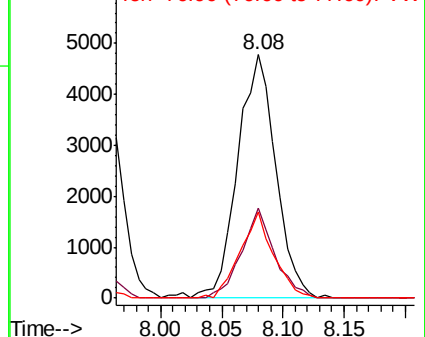
77 31.3 24.6 36.8

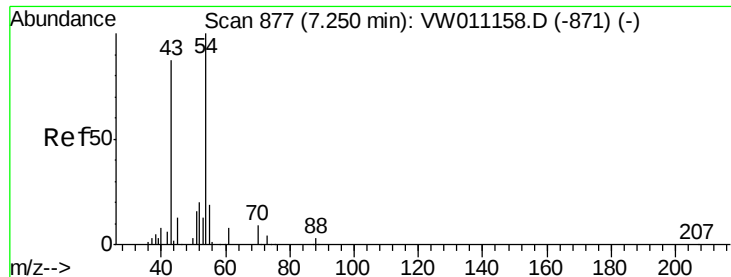


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

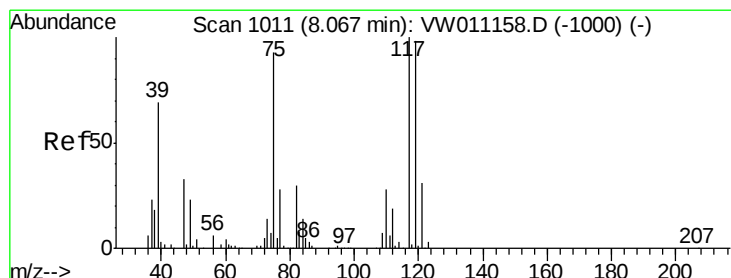
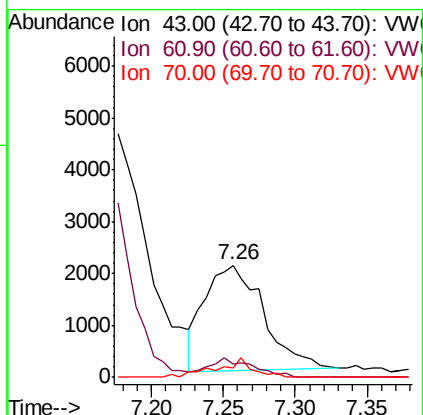
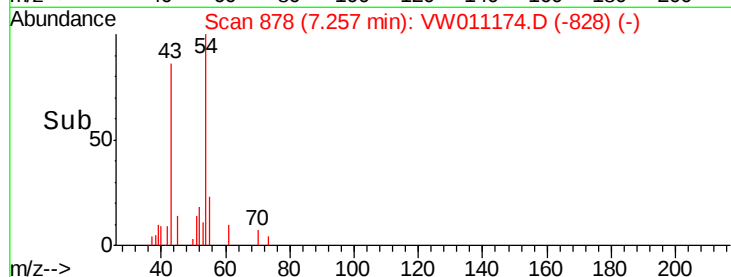
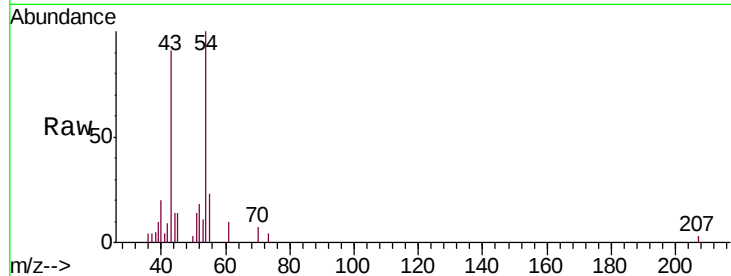




#37
Ethyl Acetate
Concen: 2.358 ug/l
RT: 7.26 min Scan# 878
Delta R.T. 0.01 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

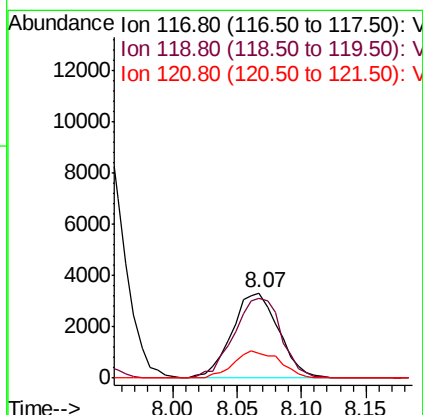
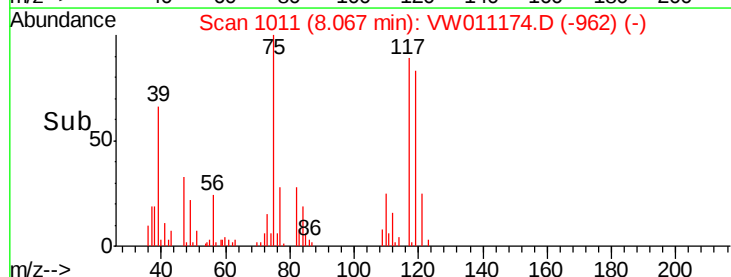
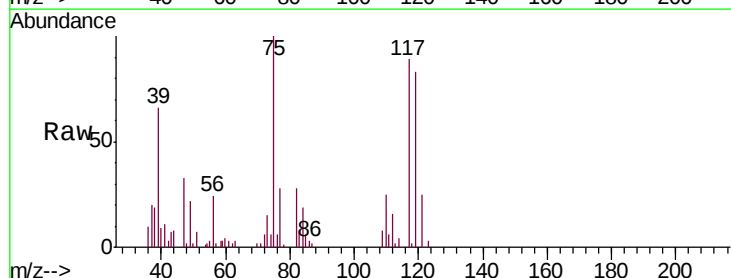
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

Tgt Ion: 43 Resp: 5784
Ion Ratio Lower Upper
43 100
61 13.7 9.5 14.3
70 11.2 7.1 10.7#



#38
Carbon Tetrachloride
Concen: 2.421 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion: 117 Resp: 8380
Ion Ratio Lower Upper
117 100
119 93.1 78.1 117.1
121 28.5 25.1 37.7

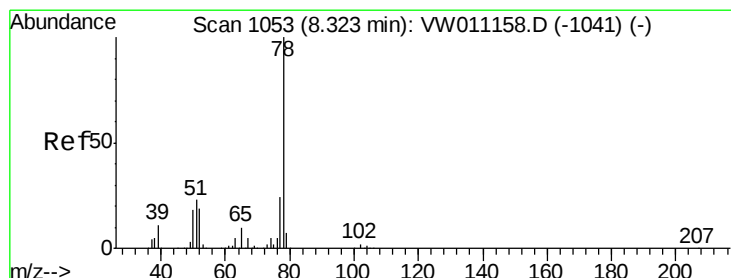
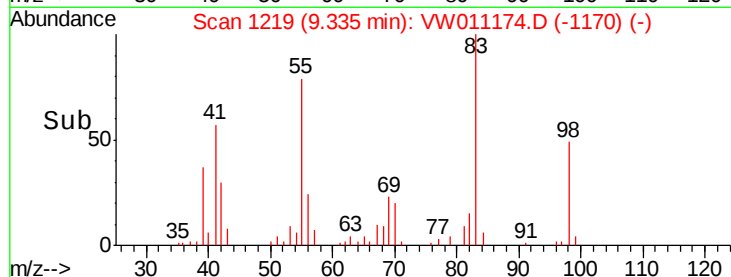
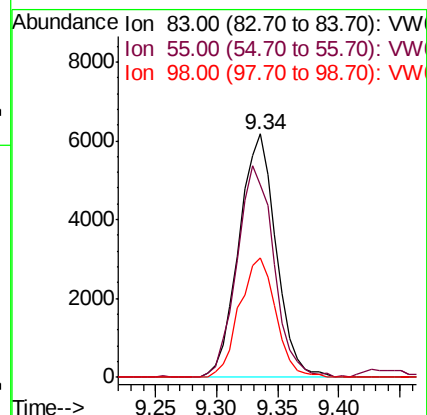
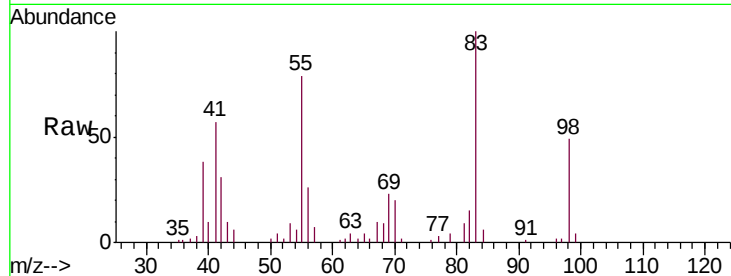




#39
Methylcyclohexane
Concen: 2.628 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

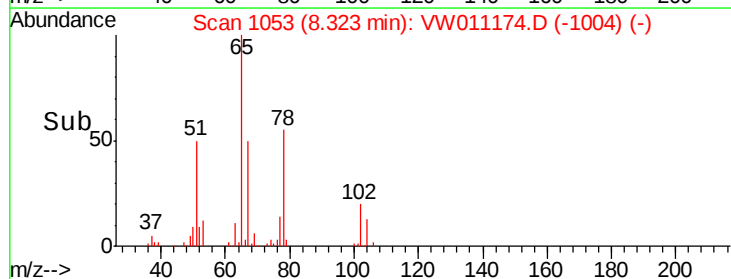
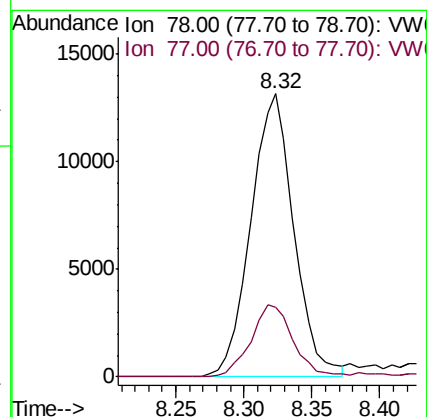
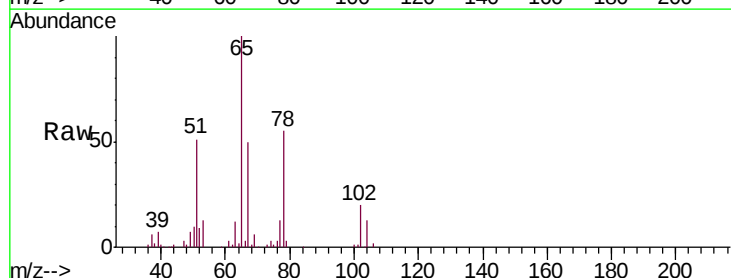
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

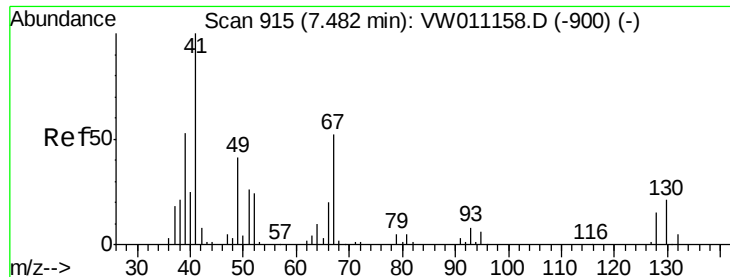
Tgt Ion: 83 Resp: 13003
Ion Ratio Lower Upper
83 100
55 78.9 71.2 106.8
98 48.8 37.5 56.3



#40
Benzene
Concen: 2.580 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion: 78 Resp: 29114
Ion Ratio Lower Upper
78 100
77 24.5 19.0 28.6





#41

Methacrylonitrile

Concen: 2.520 ug/l

RT: 7.49 min Scan# 916

Delta R.T. 0.01 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

Tgt Ion: 41 Resp: 3536

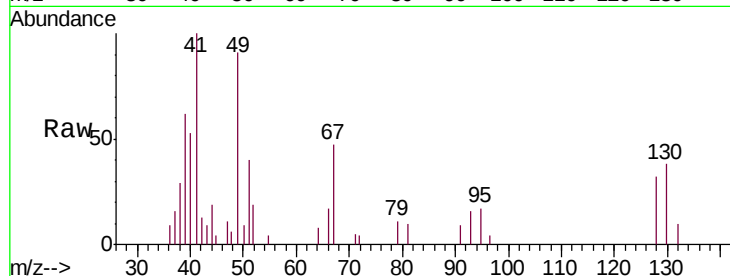
Ion Ratio Lower Upper

41 100

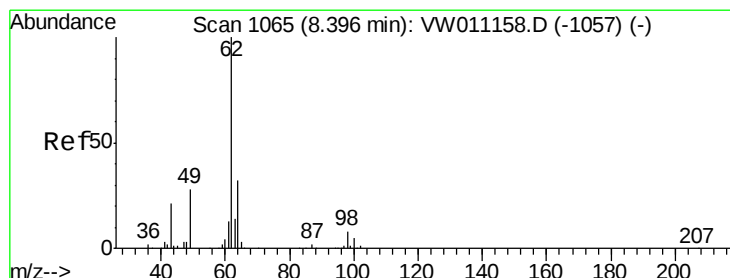
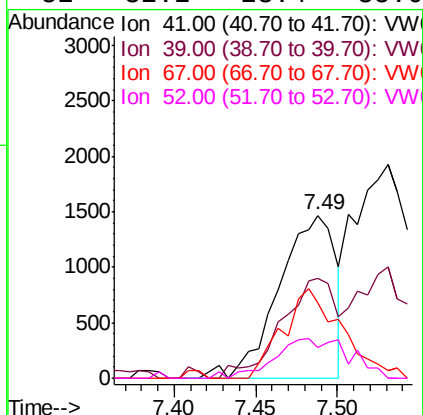
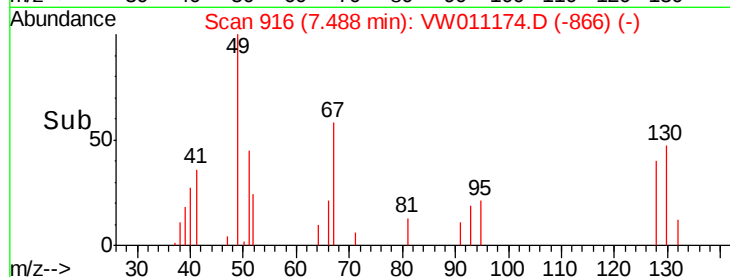
39 58.3 48.0 72.0

67 58.4 49.7 74.5

52 32.2 23.4 35.0



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



#42

1,2-Dichloroethane

Concen: 2.688 ug/l

RT: 8.40 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VW011174.D

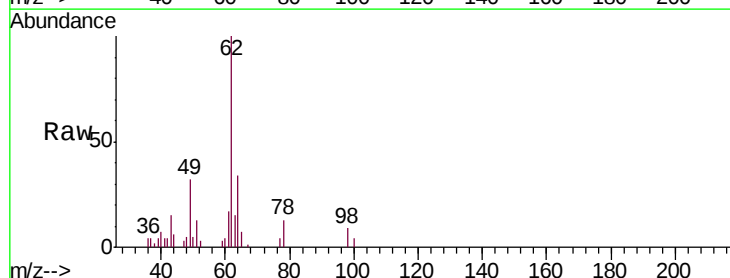
Acq: 09 Jul 2019 12:59

Tgt Ion: 62 Resp: 9839

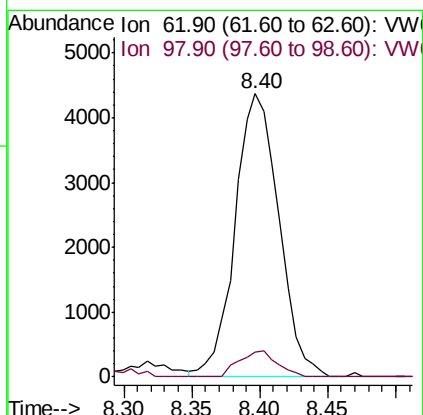
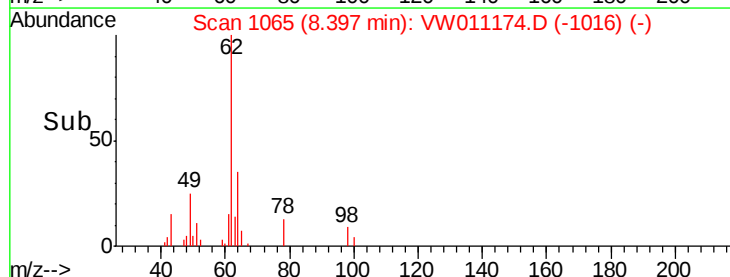
Ion Ratio Lower Upper

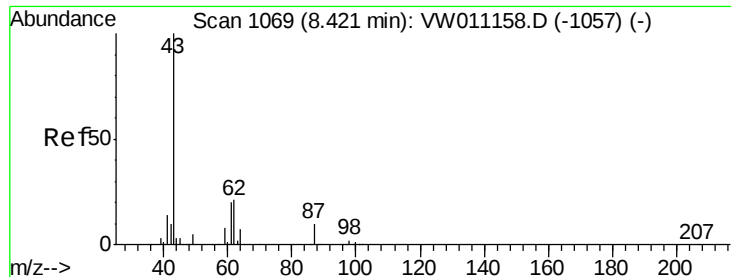
62 100

98 7.9 0.0 16.8



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





#43

Isopropyl Acetate

Concen: 2.429 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

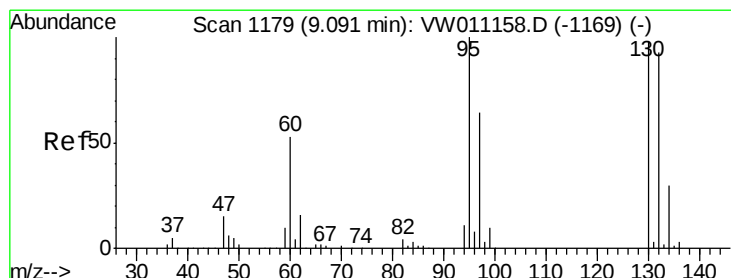
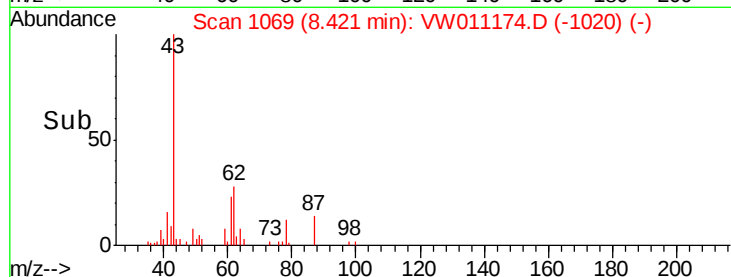
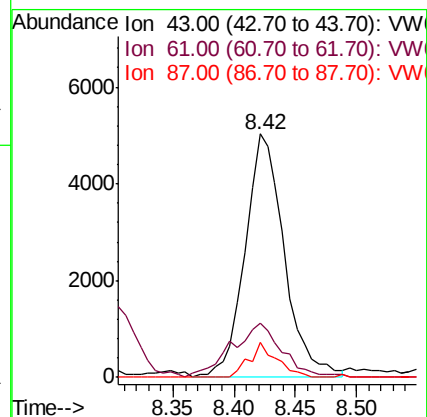
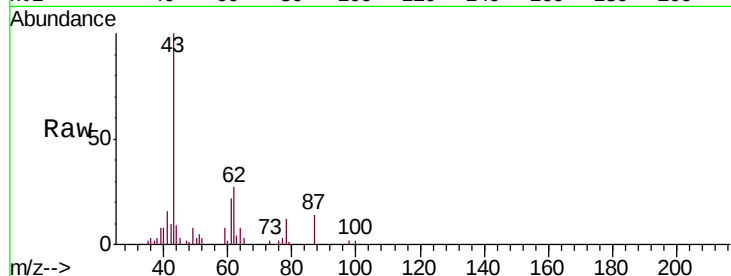
Tgt Ion: 43 Resp: 11248

Ion Ratio Lower Upper

43 100

61 28.7 20.7 31.1

87 10.1 8.1 12.1



#44

Trichloroethene

Concen: 2.498 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW011174.D

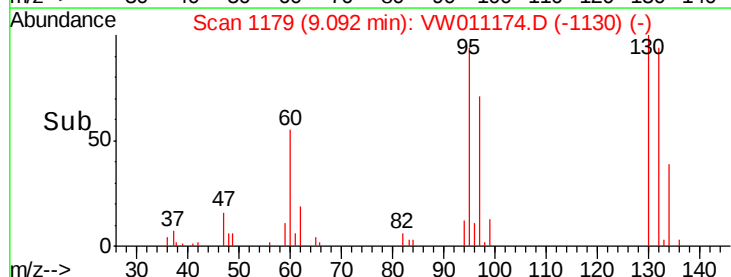
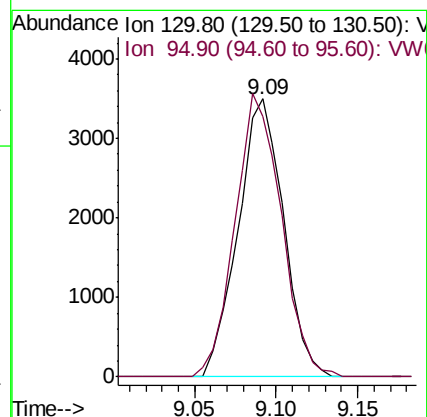
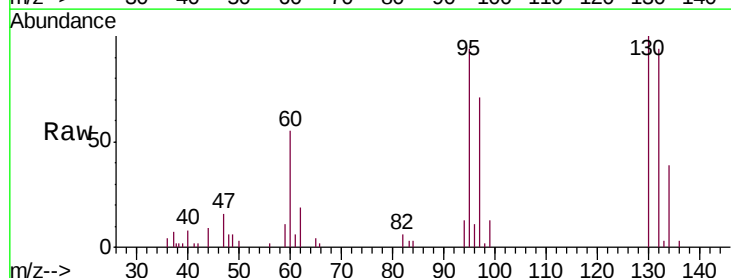
Acq: 09 Jul 2019 12:59

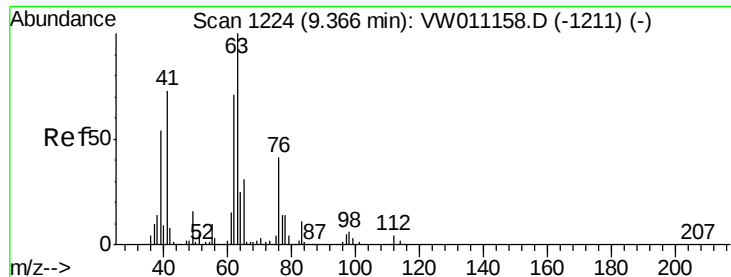
Tgt Ion: 130 Resp: 6782

Ion Ratio Lower Upper

130 100

95 93.5 0.0 203.6

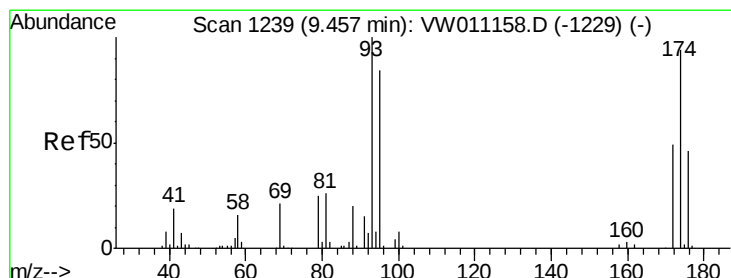
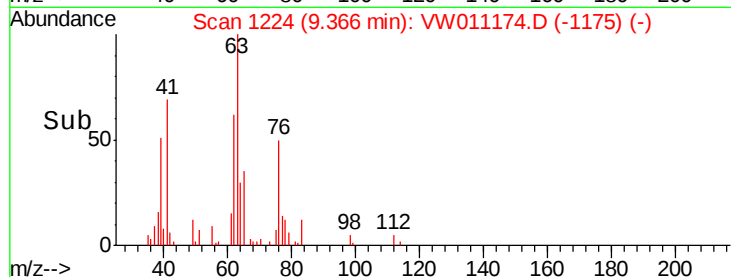
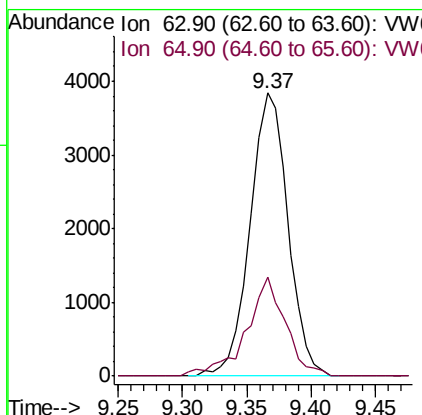
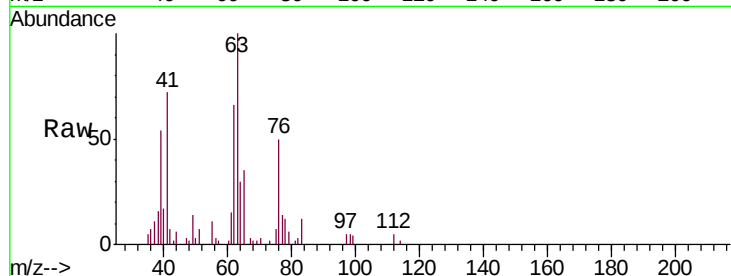




#45
 1,2-Dichloropropane
 Concen: 2.557 ug/l
 RT: 9.37 min Scan# 1224
 Delta R.T. 0.00 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

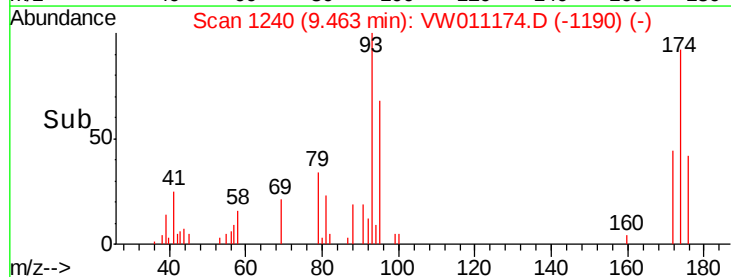
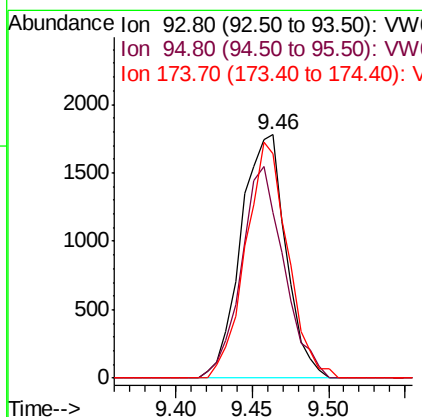
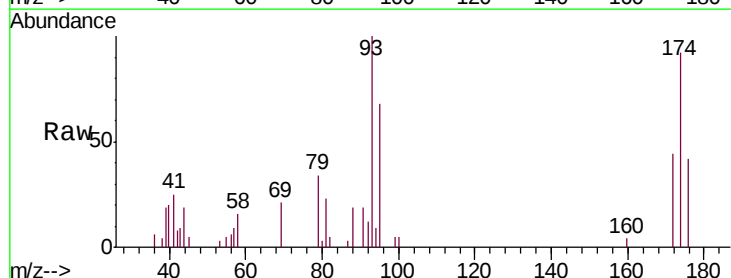
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT3-2019

Tgt Ion: 63 Resp: 7812
 Ion Ratio Lower Upper
 63 100
 65 34.9 24.4 36.6



#46
 Dibromomethane
 Concen: 2.532 ug/l
 RT: 9.46 min Scan# 1240
 Delta R.T. 0.01 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

Tgt Ion: 93 Resp: 3634
 Ion Ratio Lower Upper
 93 100
 95 82.7 67.2 100.8
 174 90.9 76.3 114.5





#47

Bromodichloromethane

Concen: 2.235 ug/l

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

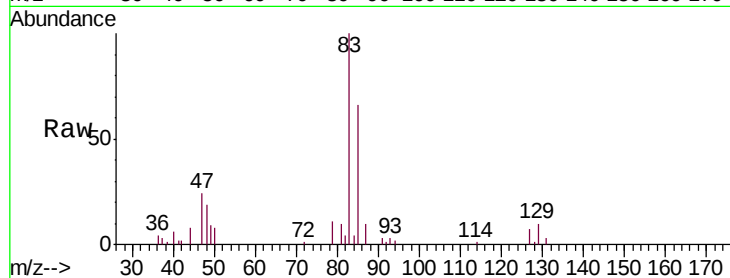
Tgt Ion: 83 Resp: 8209

Ion Ratio Lower Upper

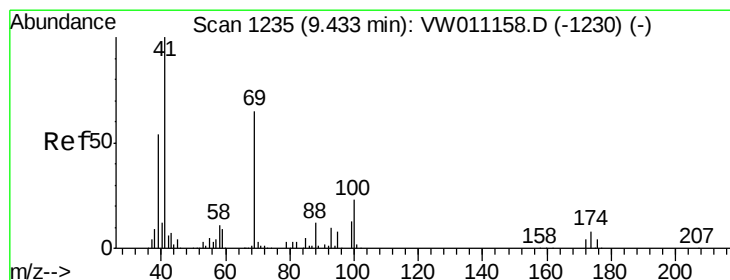
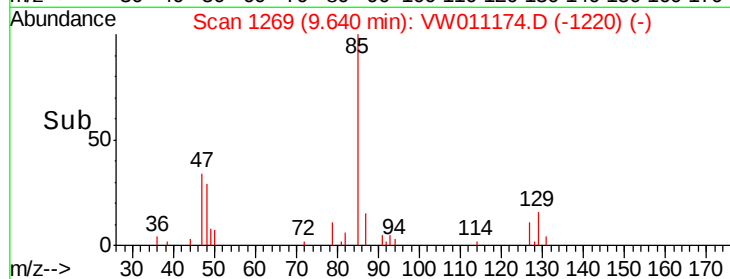
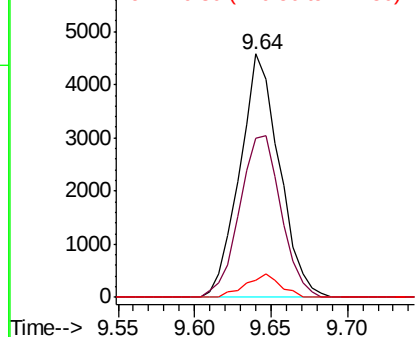
83 100

85 65.5 51.0 76.4

127 6.9 6.0 9.0



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: 2.039 ug/l

RT: 9.44 min Scan# 1236

Delta R.T. 0.01 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

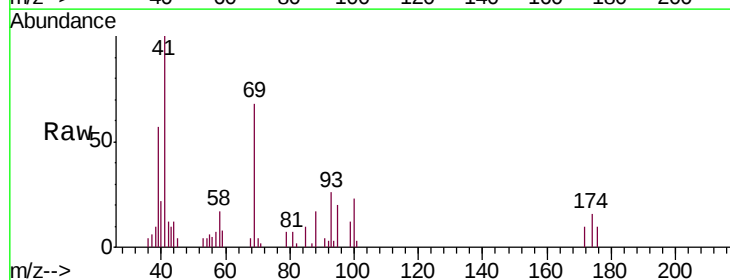
Tgt Ion: 41 Resp: 4543

Ion Ratio Lower Upper

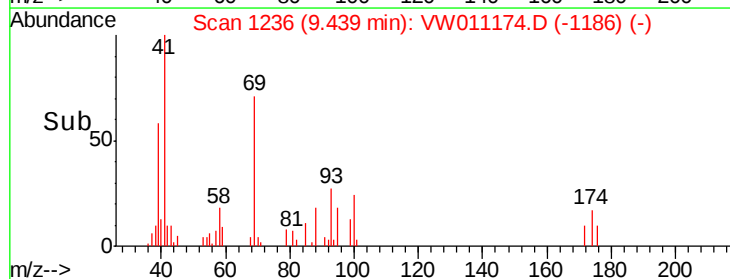
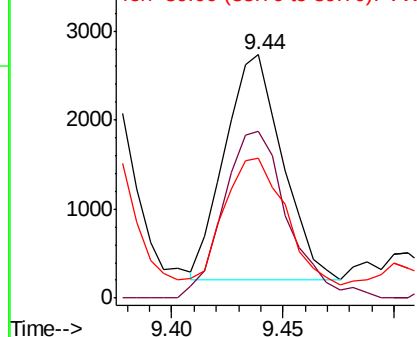
41 100

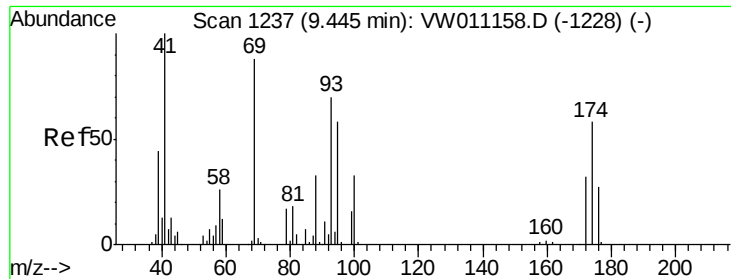
69 82.7 56.0 84.0

39 59.9 43.5 65.3



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

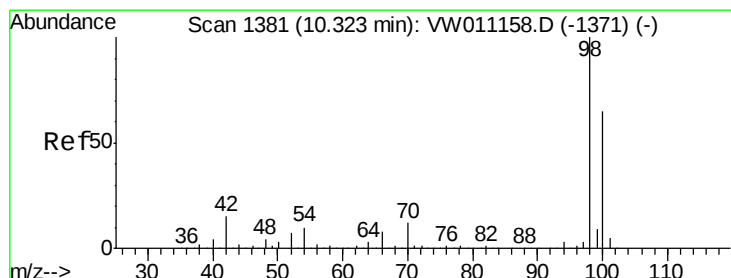
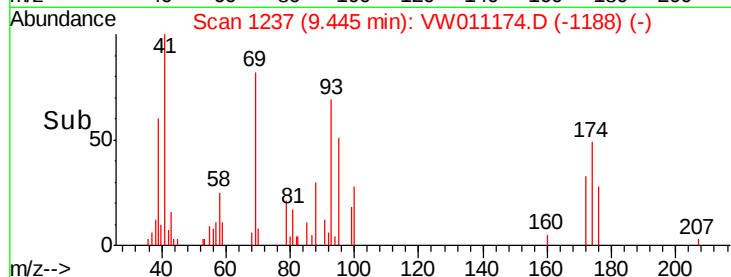
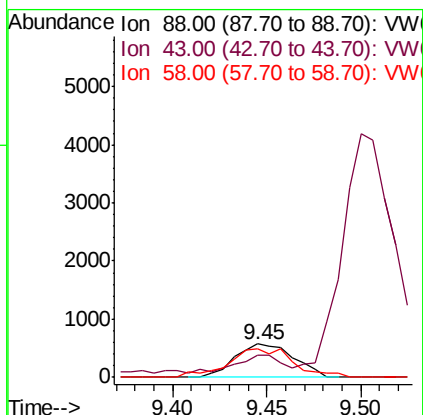
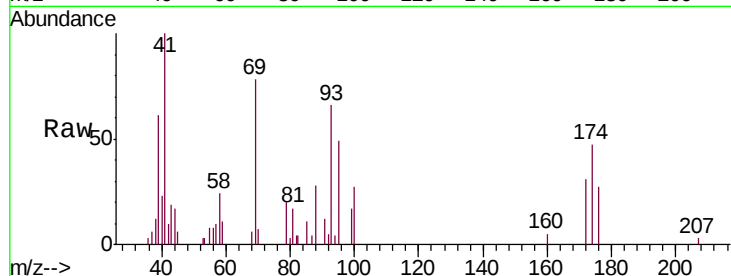




#49
1,4-Dioxane
Concen: 52.215 ug/l
RT: 9.45 min Scan# 1237
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

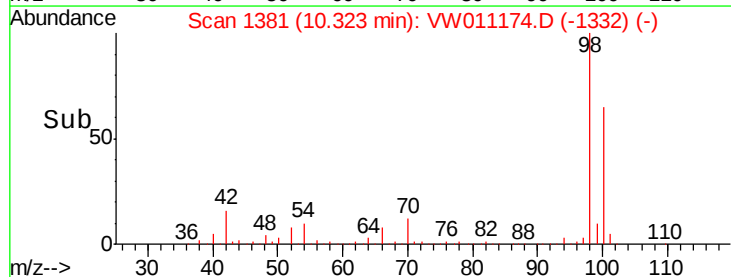
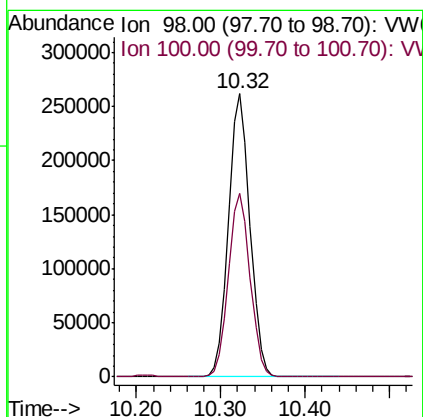
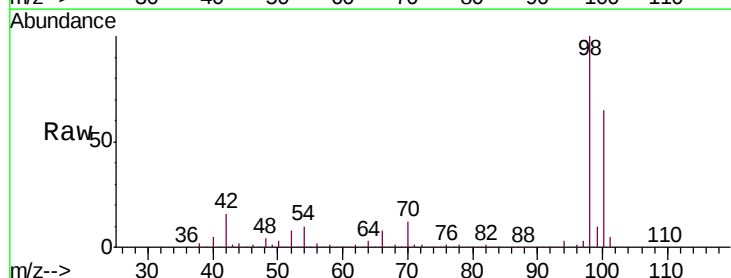
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

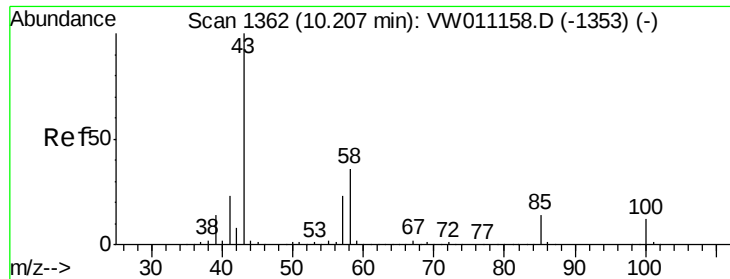
Tgt Ion: 88 Resp: 1251
Ion Ratio Lower Upper
88 100
43 42.3 33.4 50.0
58 94.9 64.5 96.7



#50
Toluene-d8
Concen: 49.247 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion: 98 Resp: 454916
Ion Ratio Lower Upper
98 100
100 65.3 52.4 78.6

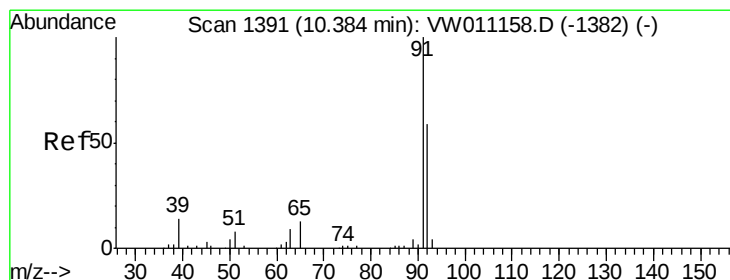
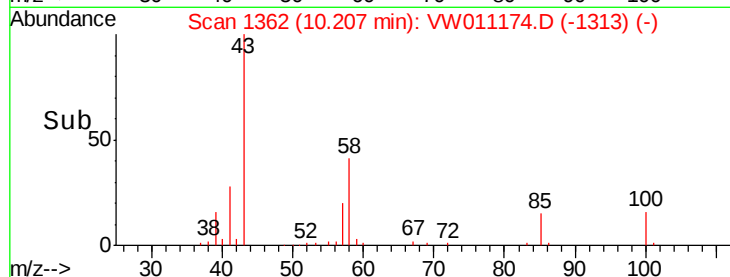
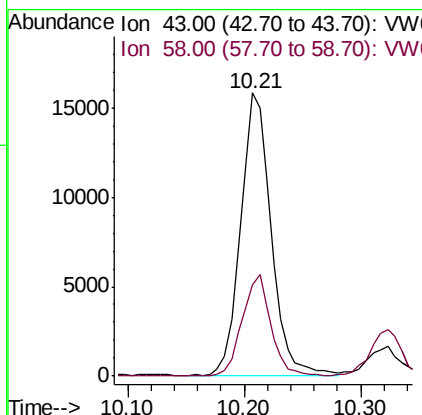
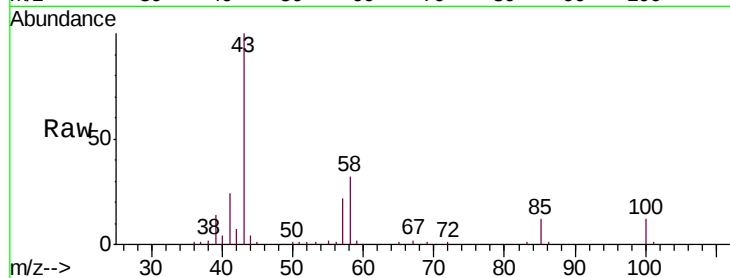




#51
4-Methyl-2-Pentanone
Concen: 12.046 ug/l
RT: 10.21 min Scan# 1362
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

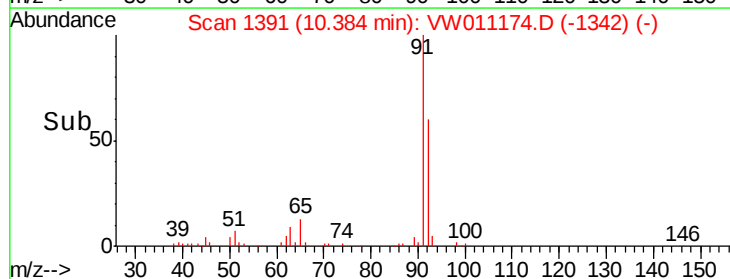
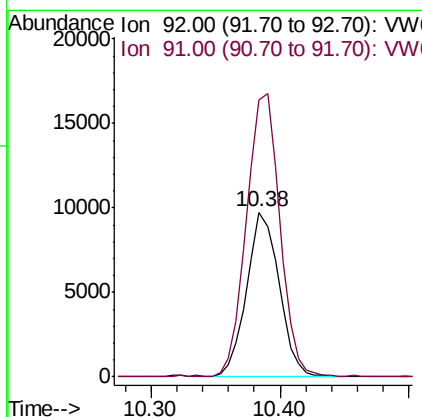
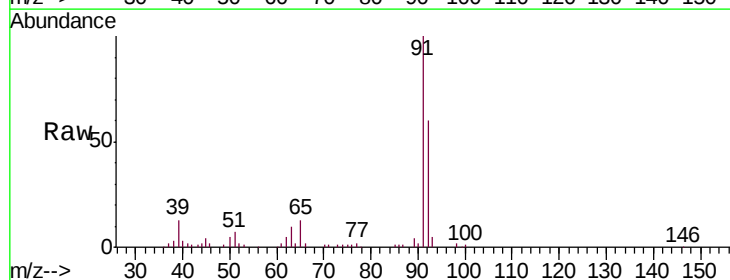
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

Tgt Ion: 43 Resp: 29144
Ion Ratio Lower Upper
43 100
58 33.7 28.2 42.2



#52
Toluene
Concen: 2.486 ug/l
RT: 10.38 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion: 92 Resp: 17014
Ion Ratio Lower Upper
92 100
91 176.1 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 2.198 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

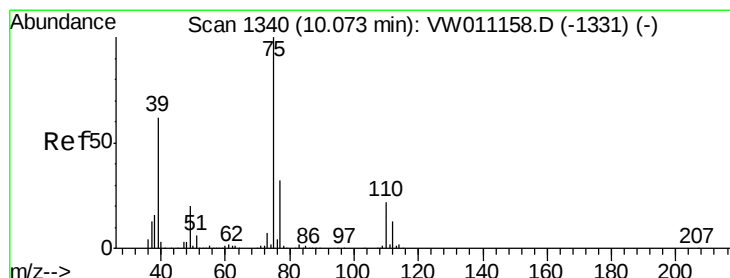
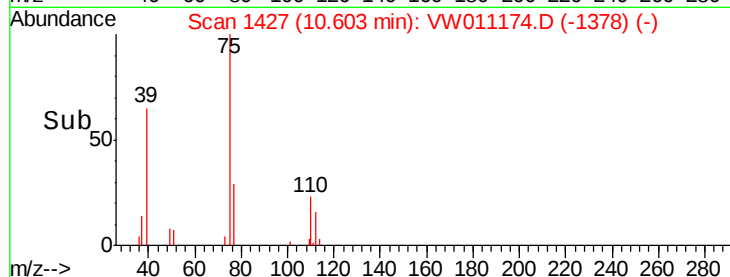
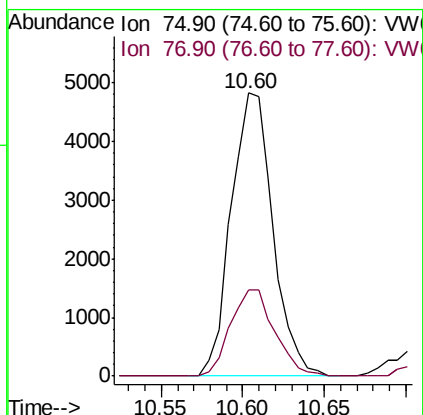
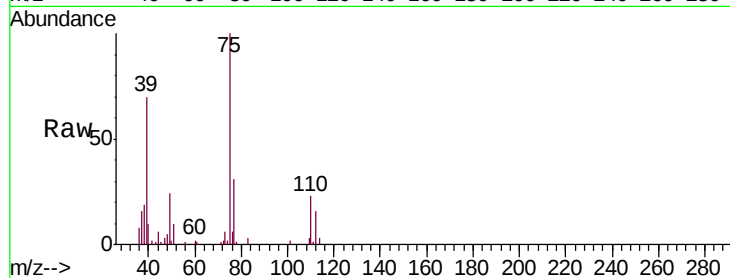
MDL-MDL-SOIL-03-QT3-2019

Tgt Ion: 75 Resp: 8593

Ion Ratio Lower Upper

75 100

77 30.5 25.4 38.0



#54

cis-1,3-Dichloropropene

Concen: 2.195 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

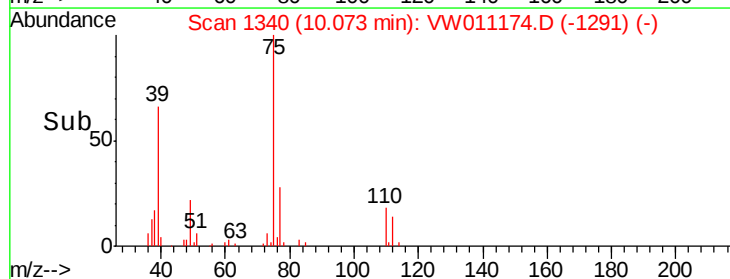
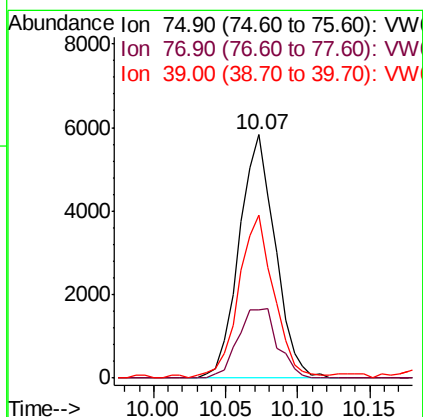
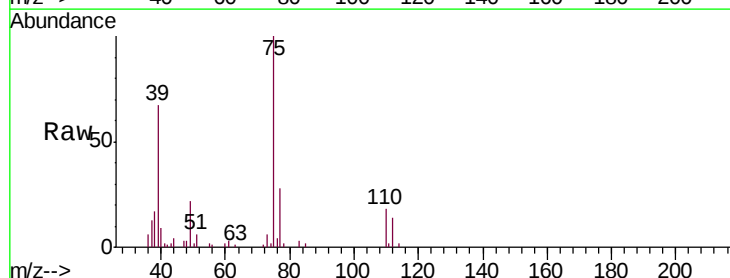
Tgt Ion: 75 Resp: 10101

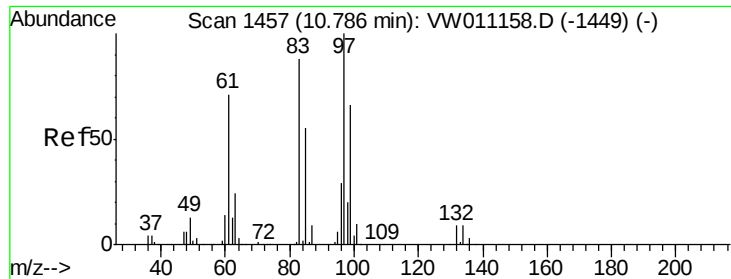
Ion Ratio Lower Upper

75 100

77 28.1 25.7 38.5

39 66.8 49.8 74.8

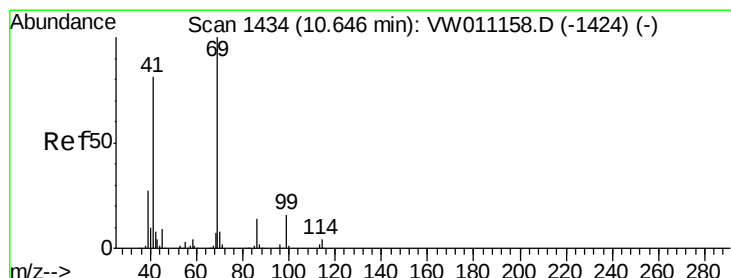
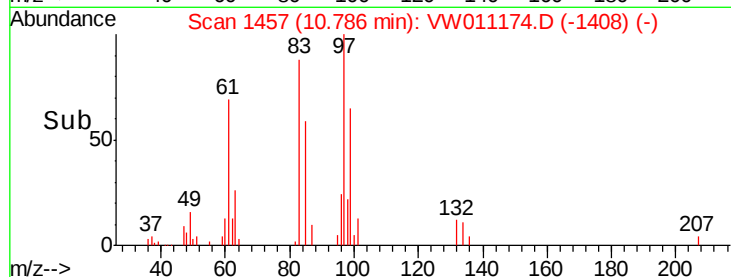
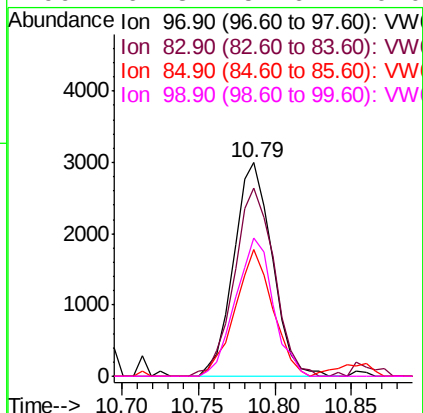
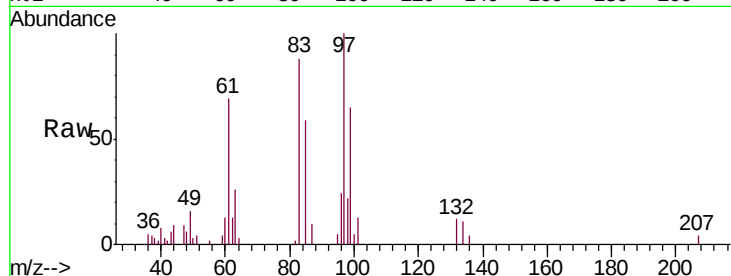




#55
 1,1,2-Trichloroethane
 Concen: 2.566 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

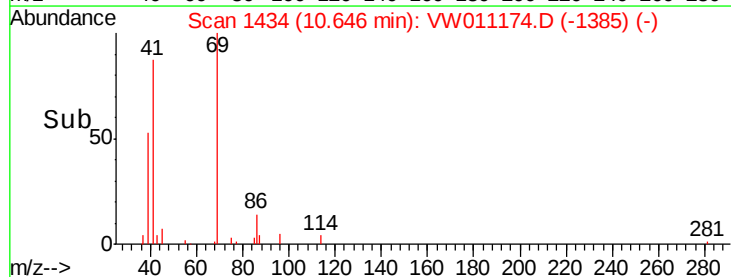
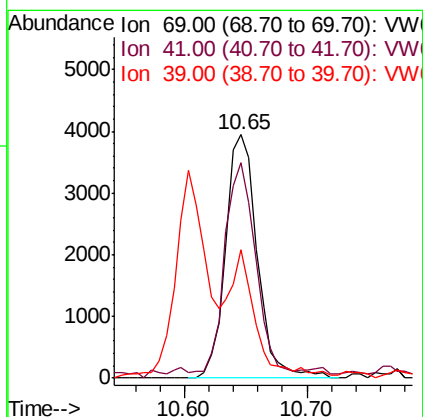
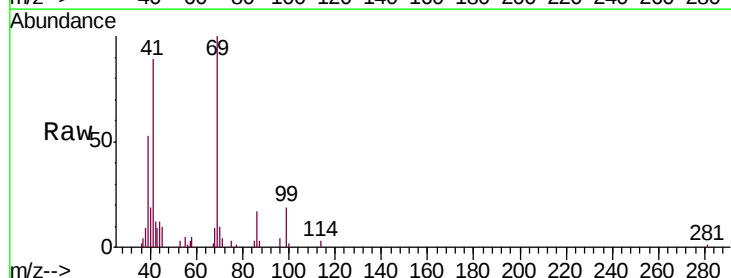
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT3-2019

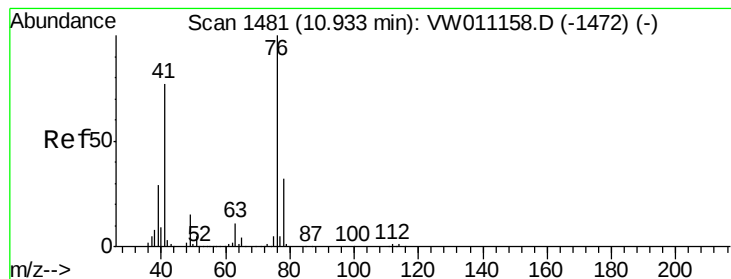
Tgt Ion:	97	Resp:	5226
Ion	Ratio	Lower	Upper
97	100		
83	88.0	70.2	105.4
85	59.1	44.2	66.2
99	64.8	52.6	79.0



#56
 Ethyl methacrylate
 Concen: 2.268 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. 0.00 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

Tgt Ion:	69	Resp:	7031
Ion	Ratio	Lower	Upper
69	100		
41	83.0	66.5	99.7
39	46.0	32.5	48.7





#57

1,3-Dichloropropane

Concen: 2.450 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

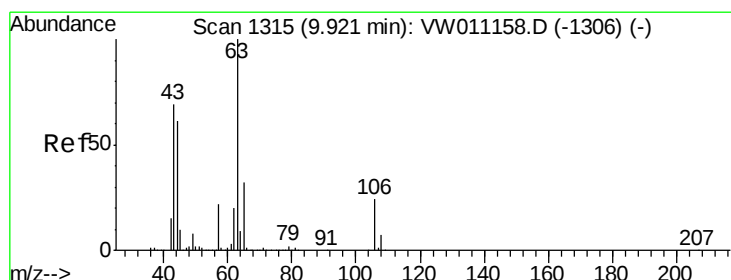
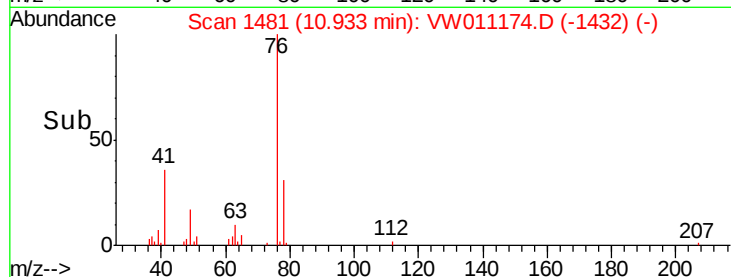
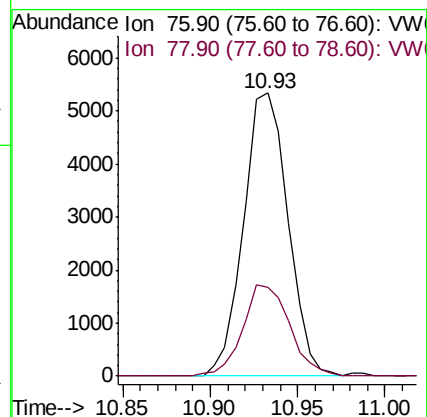
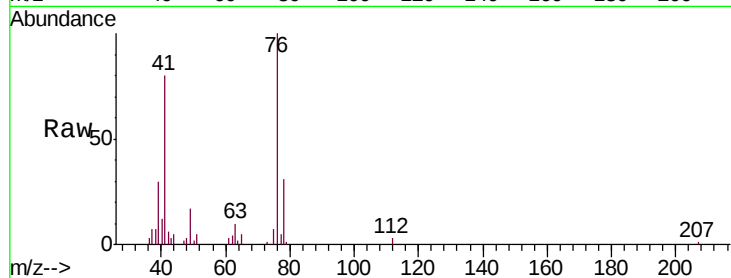
MDL-MDL-SOIL-03-QT3-2019

Tgt Ion: 76 Resp: 9435

Ion Ratio Lower Upper

76 100

78 33.8 26.2 39.2



#58

2-Chloroethyl Vinyl ether

Concen: 12.312 ug/l

RT: 9.92 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VW011174.D

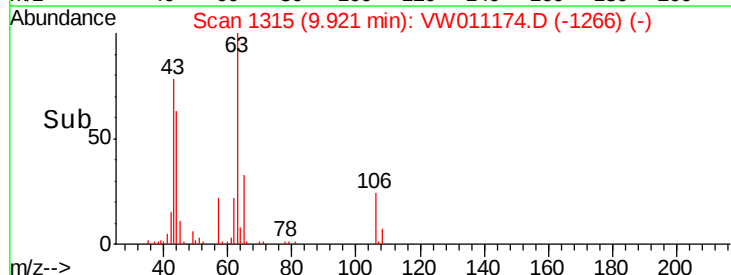
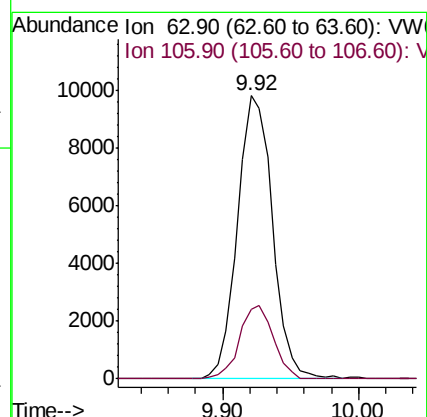
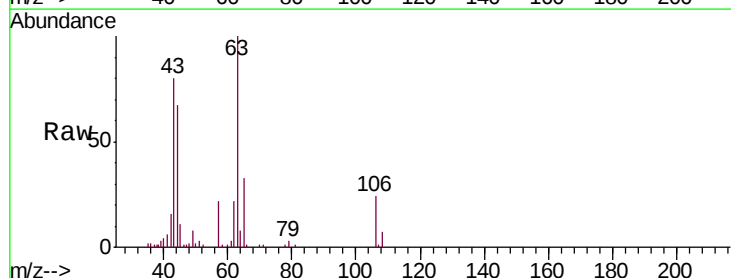
Acq: 09 Jul 2019 12:59

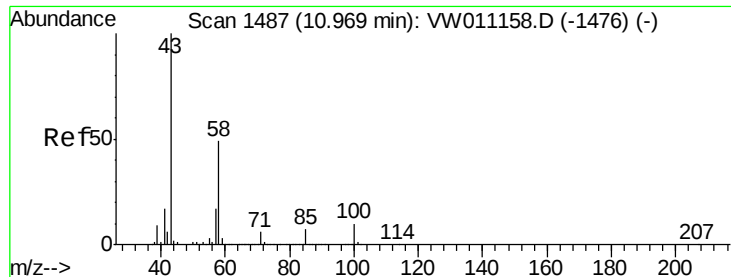
Tgt Ion: 63 Resp: 17695

Ion Ratio Lower Upper

63 100

106 25.0 19.4 29.0

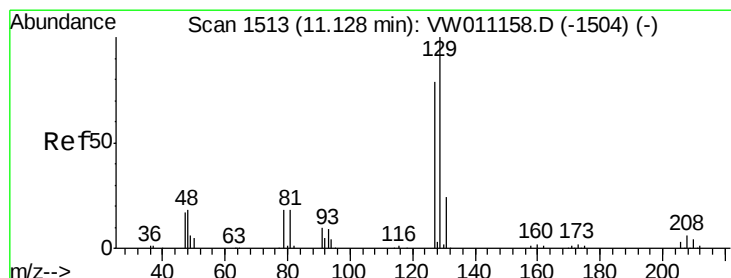
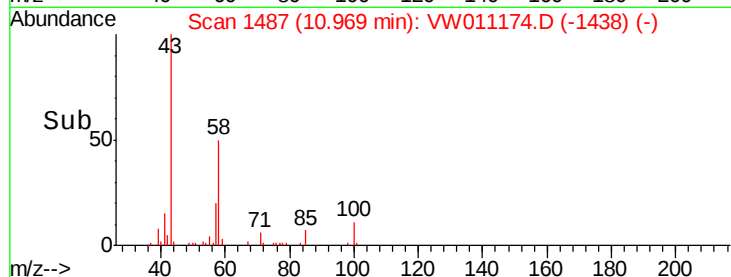
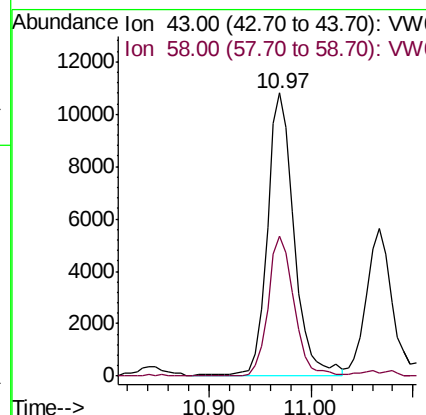
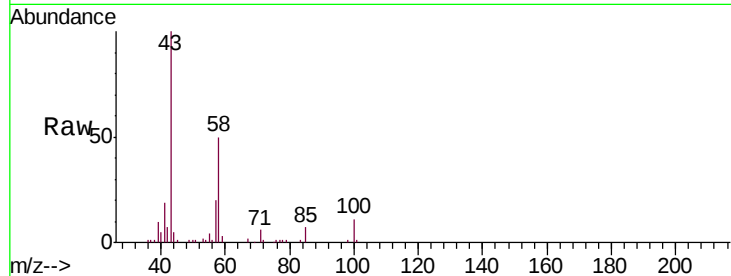




#59
2-Hexanone
Concen: 11.751 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

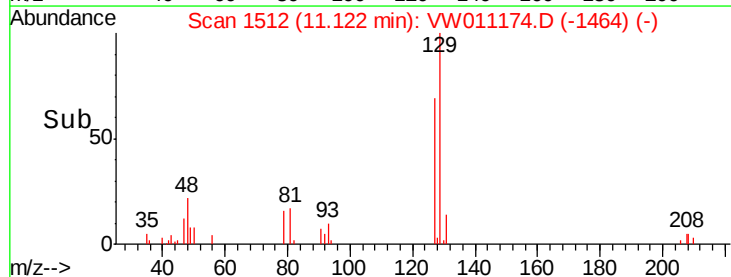
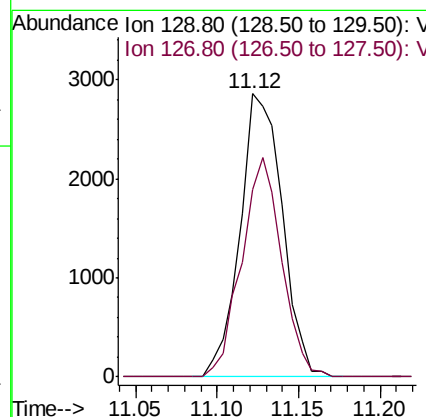
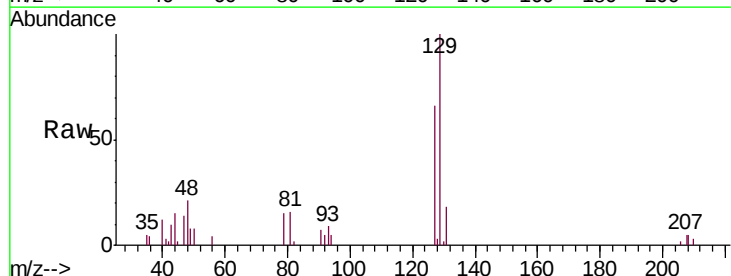
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

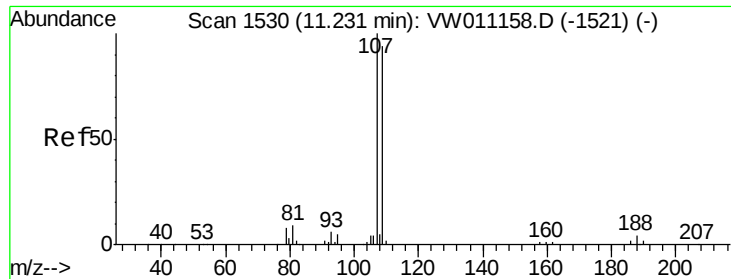
Tgt Ion: 43 Resp: 19716
Ion Ratio Lower Upper
43 100
58 47.8 24.4 73.4



#60
Dibromochloromethane
Concen: 2.312 ug/l
RT: 11.12 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion: 129 Resp: 5162
Ion Ratio Lower Upper
129 100
127 73.4 39.1 117.3





#61

1,2-Dibromoethane

Concen: 2.431 ug/l

RT: 11.24 min Scan# 1531

Delta R.T. 0.01 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

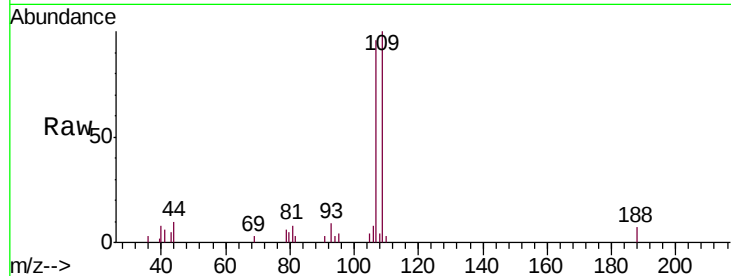
MDL-MDL-SOIL-03-QT3-2019

Tgt Ion: 107 Resp: 4689

Ion Ratio Lower Upper

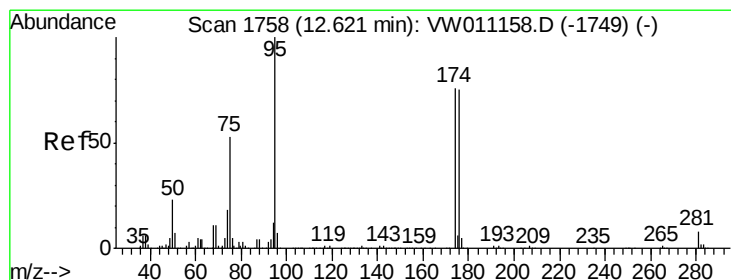
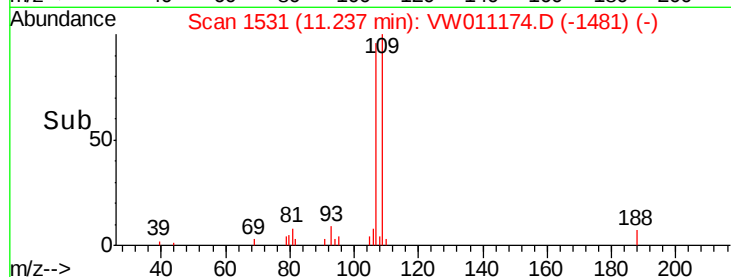
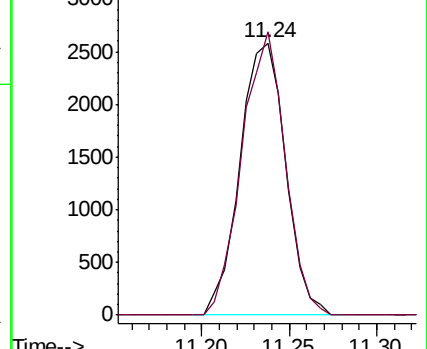
107 100

109 98.5 75.2 112.8



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 49.019 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.01 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

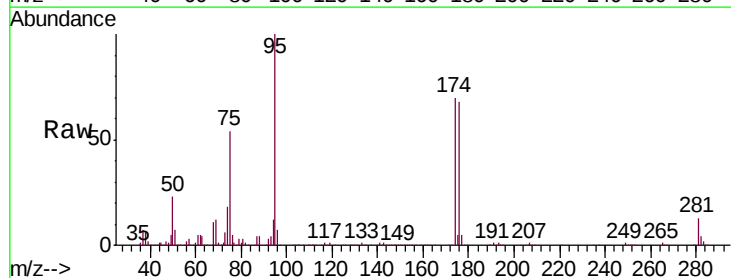
Tgt Ion: 95 Resp: 165973

Ion Ratio Lower Upper

95 100

174 74.1 0.0 147.6

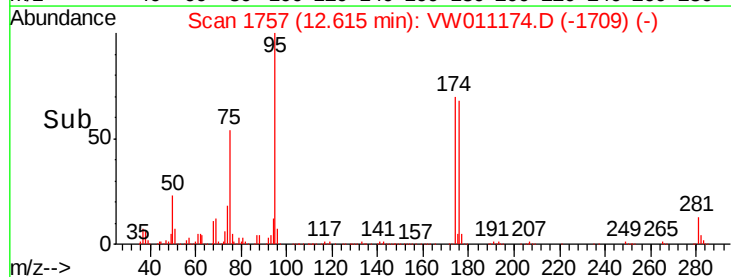
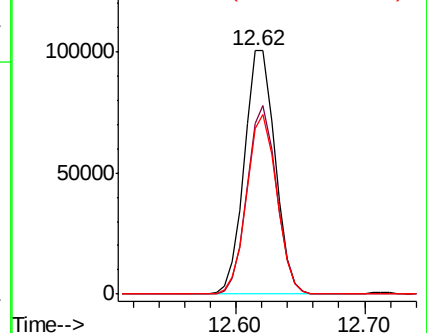
176 72.0 0.0 144.6

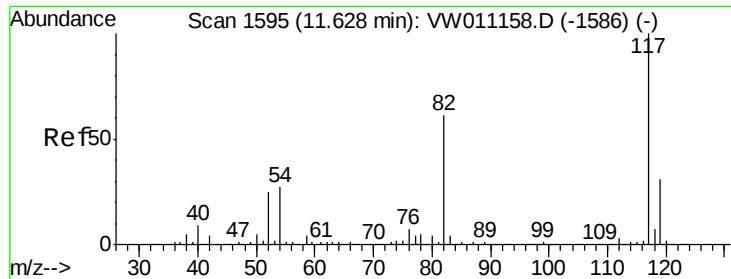


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

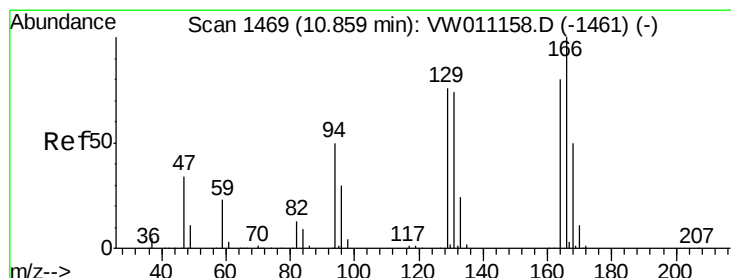
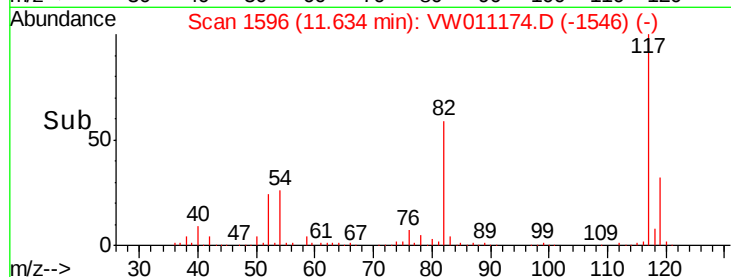
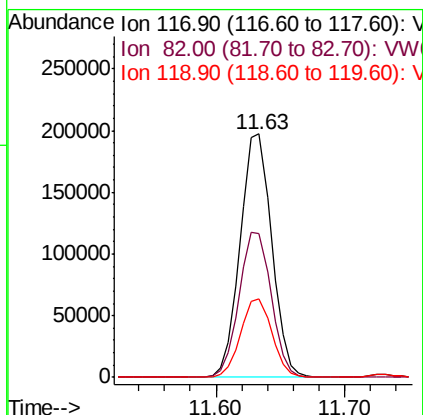
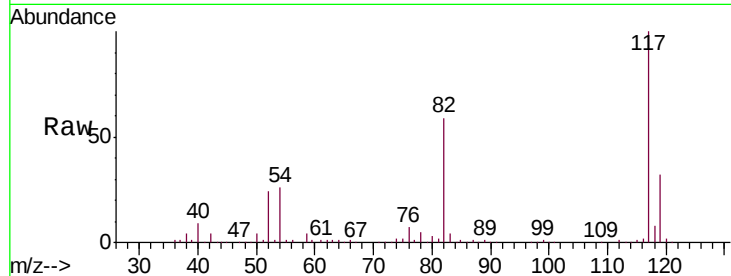




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.01 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

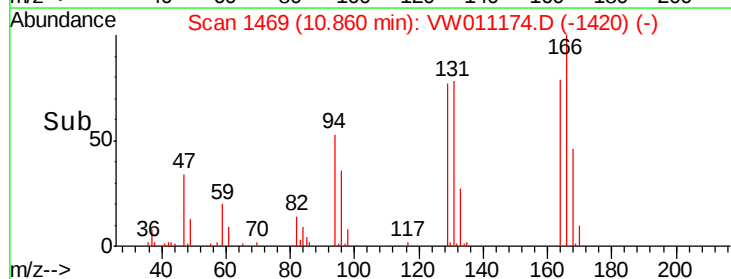
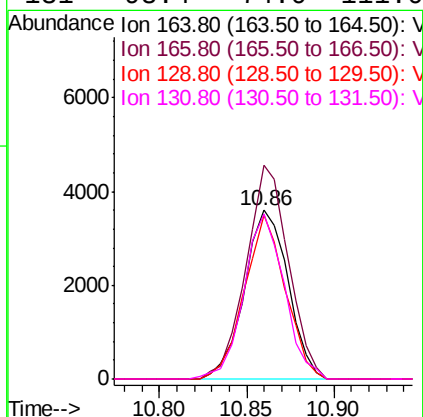
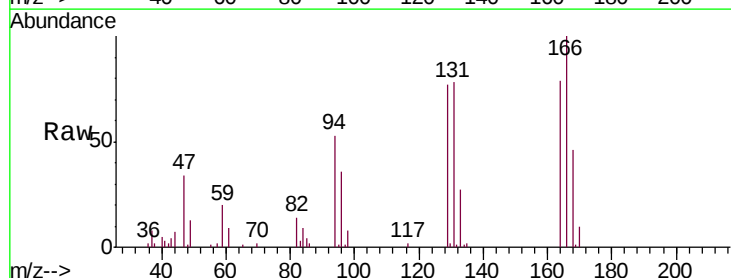
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

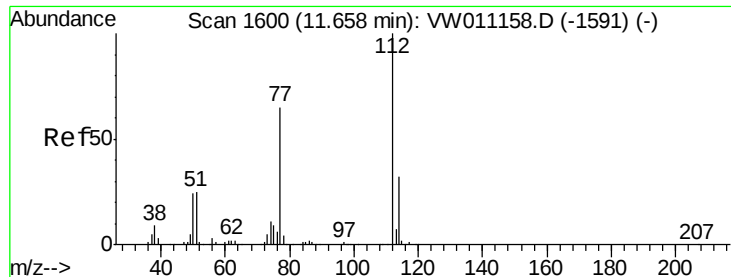
Tgt Ion:117 Resp: 335415
Ion Ratio Lower Upper
117 100
82 58.8 48.9 73.3
119 32.5 25.0 37.6



#64
Tetrachloroethene
Concen: 2.753 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion:164 Resp: 6232
Ion Ratio Lower Upper
164 100
166 126.9 99.7 149.5
129 97.4 76.2 114.2
131 98.4 74.0 111.0

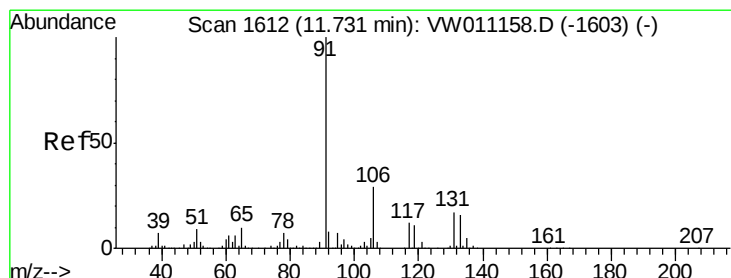
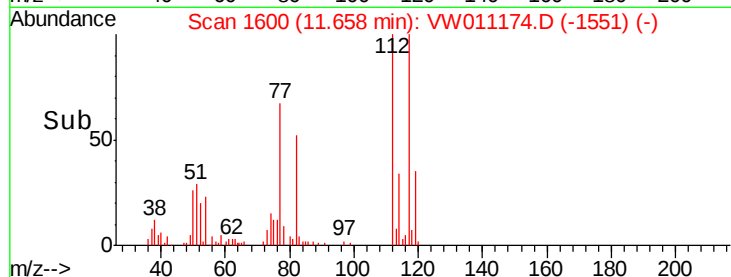
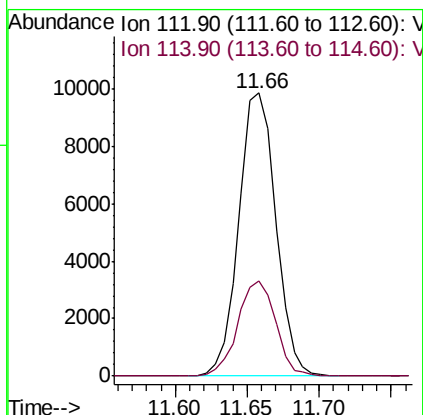
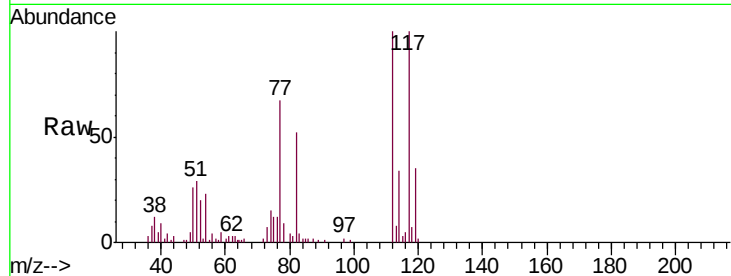




#65
Chlorobenzene
Concen: 2.581 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

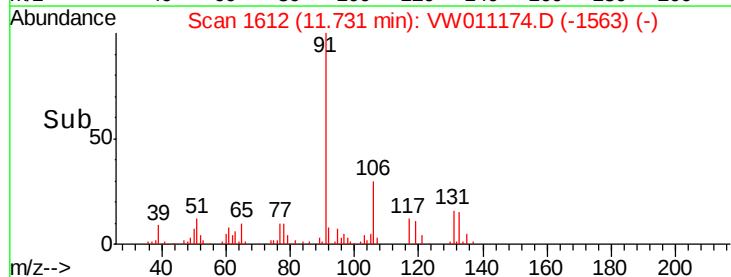
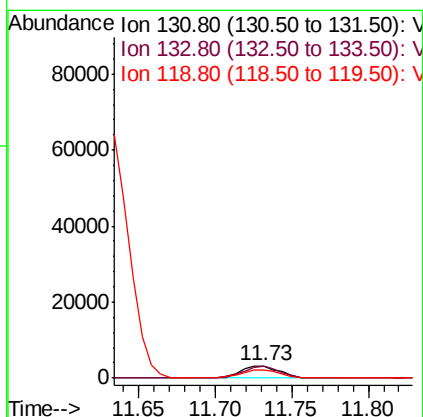
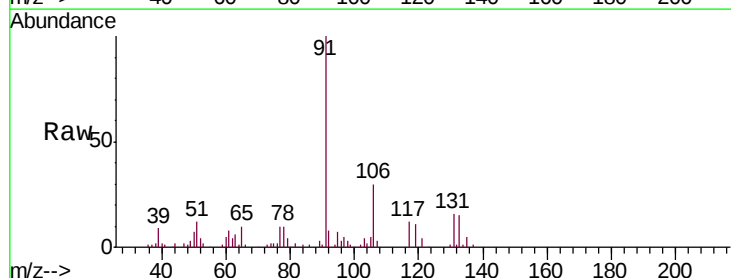
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

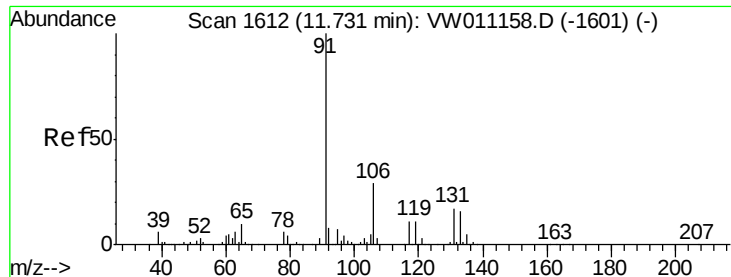
Tgt Ion:112 Resp: 17599
Ion Ratio Lower Upper
112 100
114 33.5 25.5 38.3



#66
1,1,1,2-Tetrachloroethane
Concen: 2.385 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion:131 Resp: 5727
Ion Ratio Lower Upper
131 100
133 92.1 47.9 143.8
119 68.4 33.1 99.2

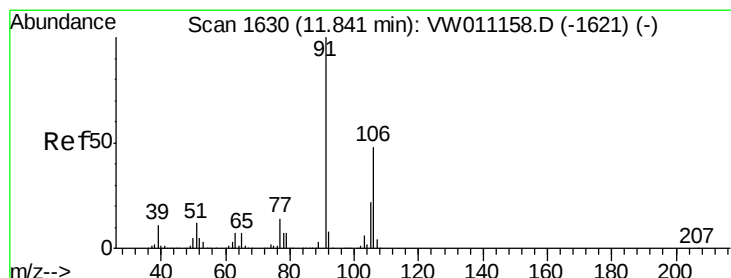
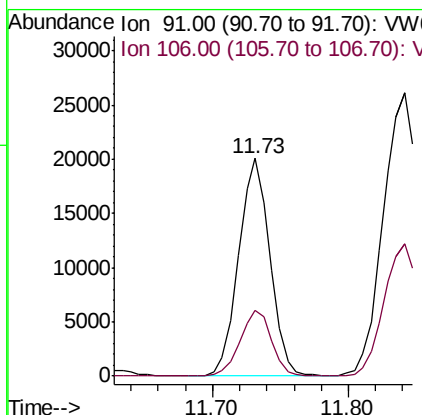
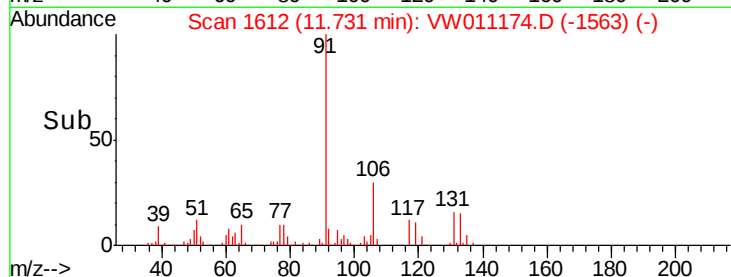
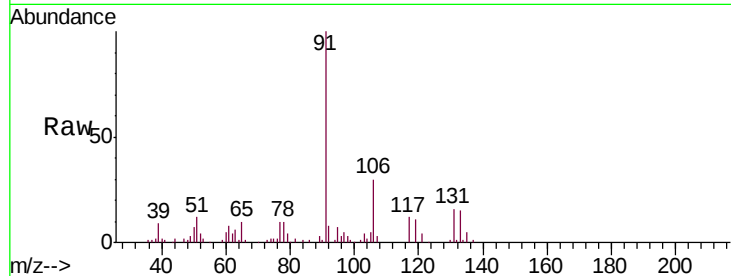




#67
Ethyl Benzene
Concen: 2.466 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

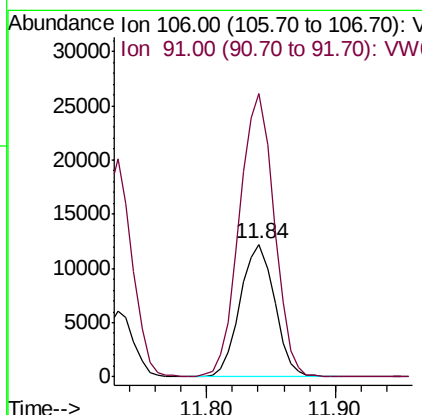
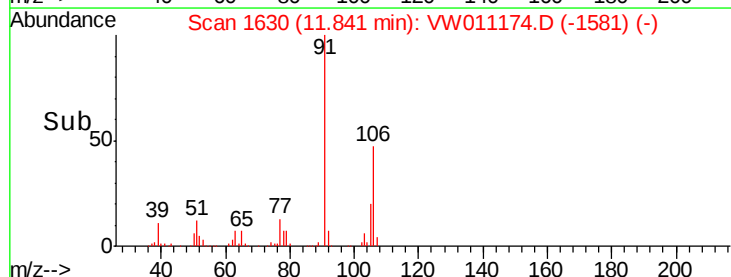
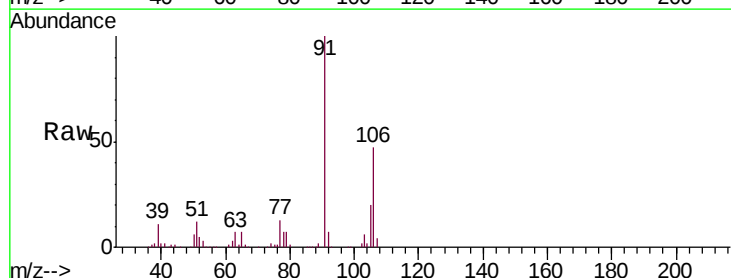
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

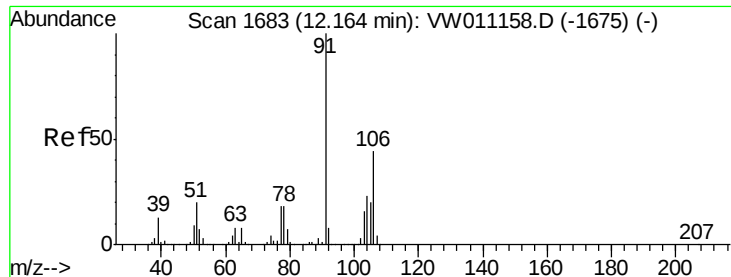
Tgt Ion: 91 Resp: 32189
Ion Ratio Lower Upper
91 100
106 30.3 23.5 35.3



#68
m/p-Xylenes
Concen: 4.814 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion: 106 Resp: 22740
Ion Ratio Lower Upper
106 100
91 213.3 167.7 251.5

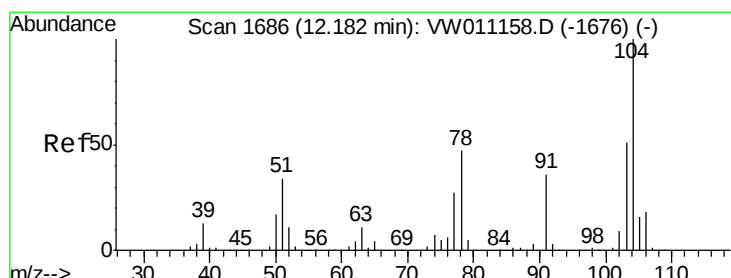
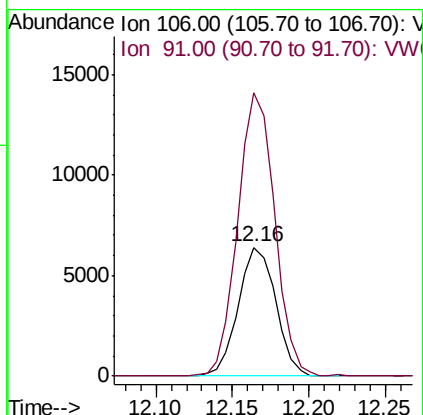
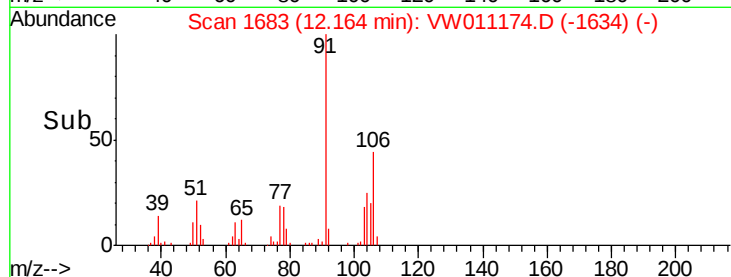
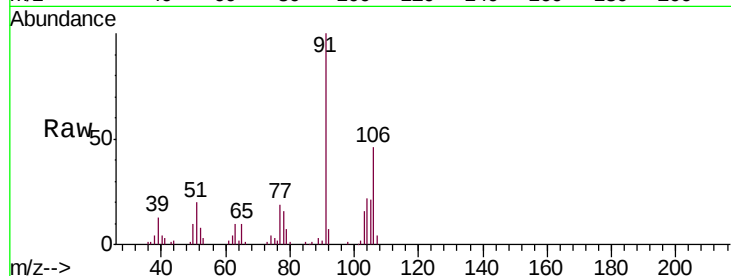




#69
o-Xylene
Concen: 2.456 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

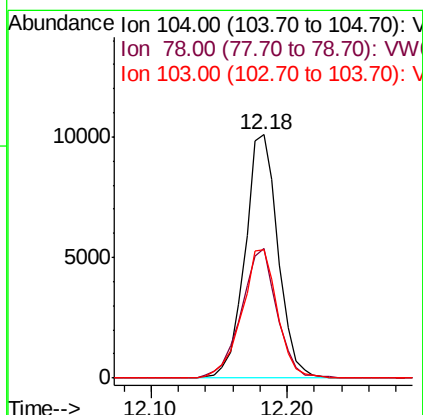
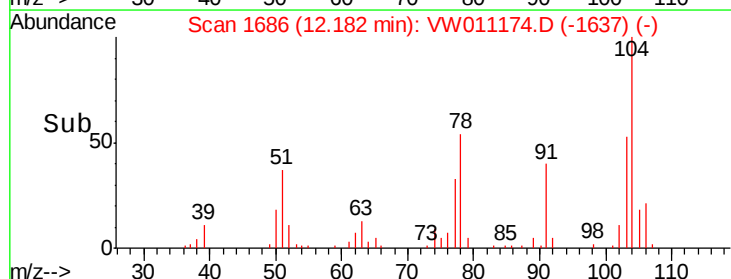
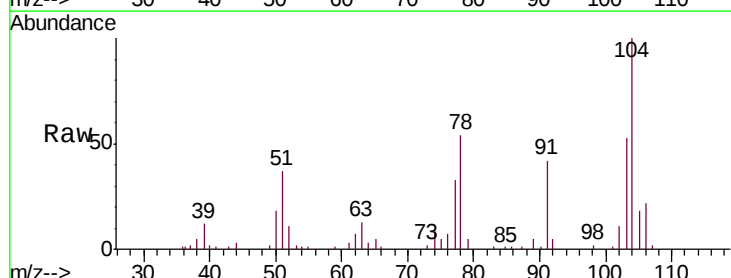
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

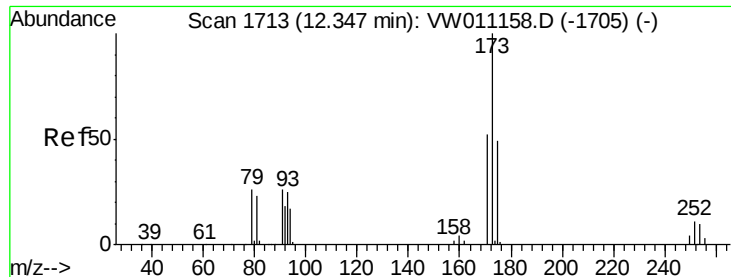
Tgt Ion:106 Resp: 10933
Ion Ratio Lower Upper
106 100
91 217.0 110.7 332.1



#70
Styrene
Concen: 2.228 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion:104 Resp: 17121
Ion Ratio Lower Upper
104 100
78 57.4 43.1 64.7
103 56.7 44.1 66.1

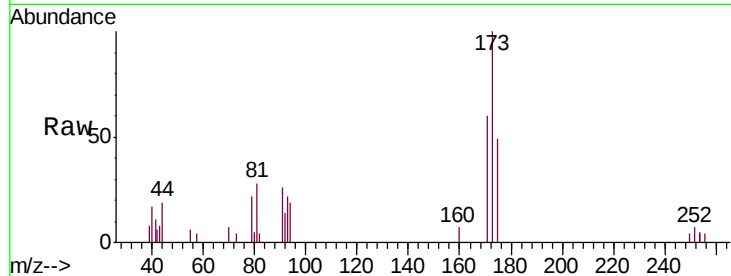




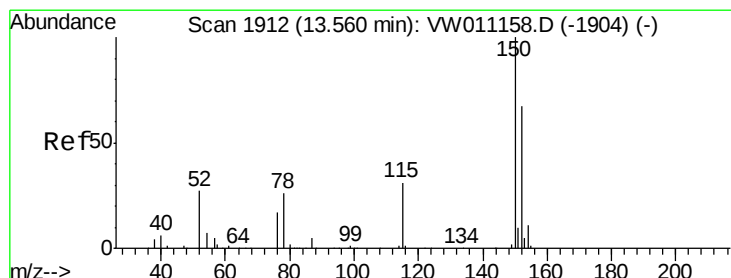
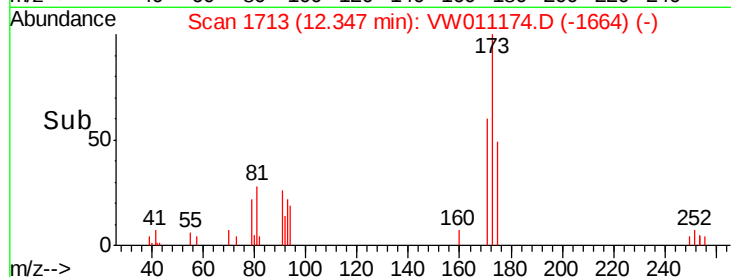
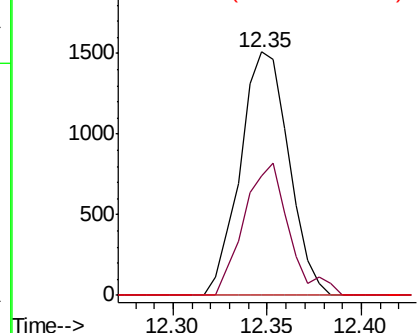
#71
Bromoform
Concen: 2.117 ug/l
RT: 12.35 min Scan# 1713
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

Tgt Ion:173 Resp: 2702
Ion Ratio Lower Upper
173 100
175 50.5 24.8 74.3
254 0.0 0.0 0.0

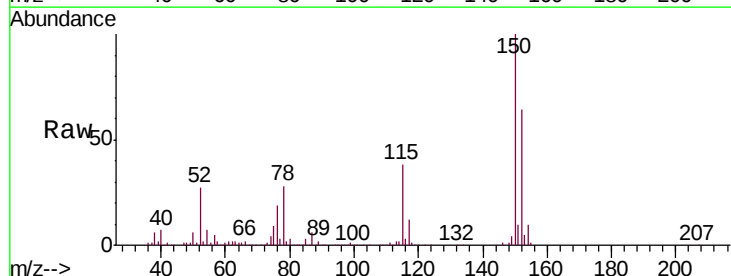


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

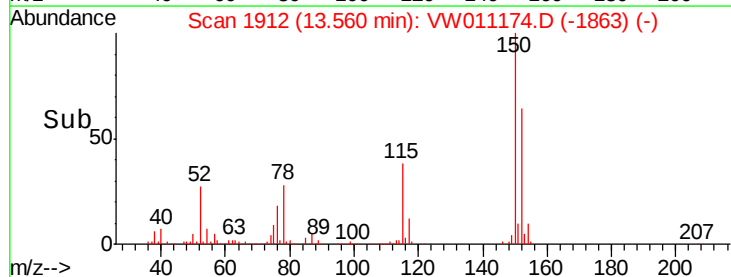
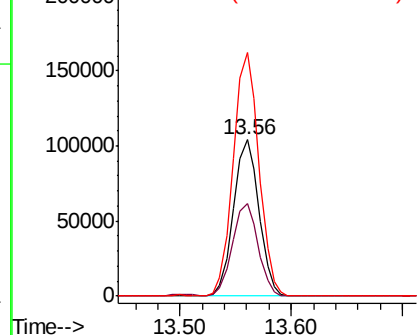


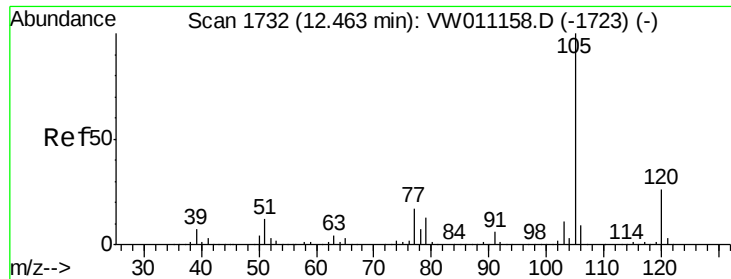
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion:152 Resp: 164578
Ion Ratio Lower Upper
152 100
115 59.7 30.1 90.3
150 157.0 0.0 346.0



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





#73

Isopropylbenzene

Concen: 2.413 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

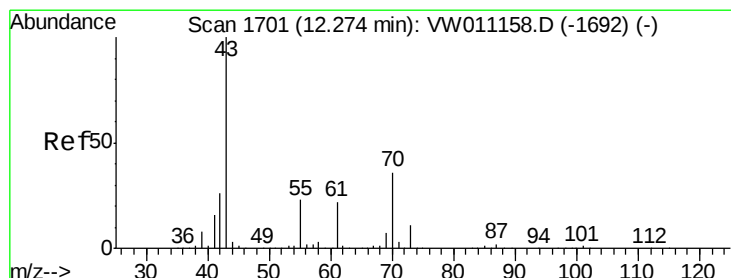
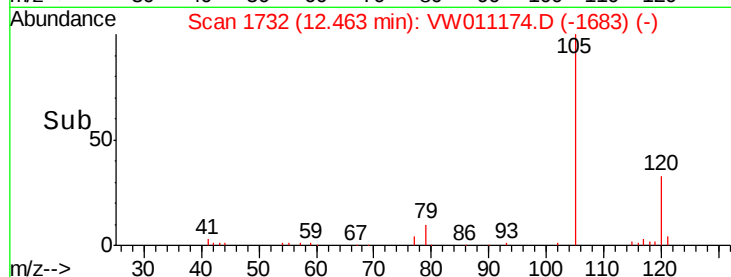
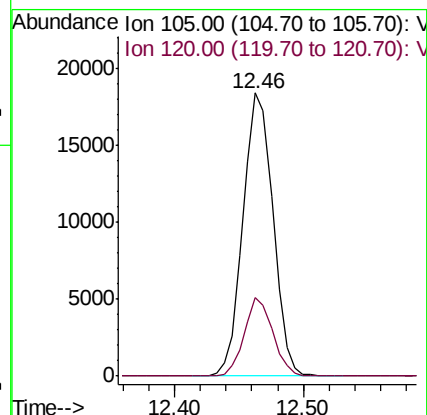
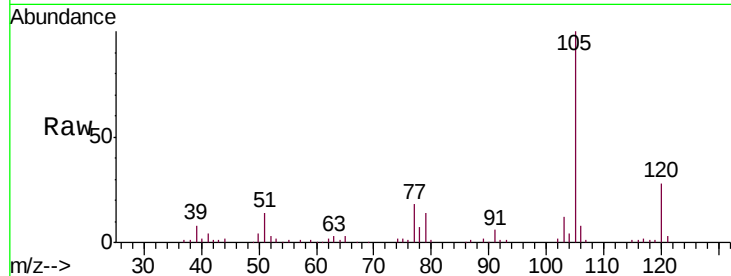
MDL-MDL-SOIL-03-QT3-2019

Tgt Ion:105 Resp: 29684

Ion Ratio Lower Upper

105 100

120 26.2 12.8 38.3



#74

N-ethyl acetate

Concen: 2.106 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Tgt Ion: 43 Resp: 9022

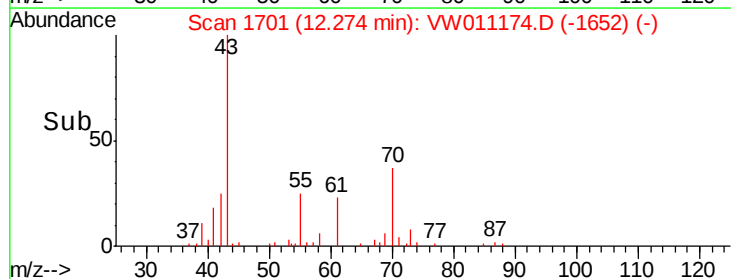
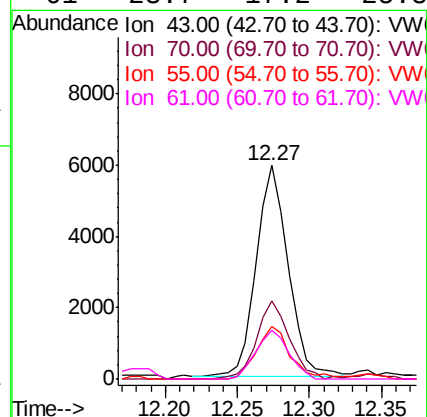
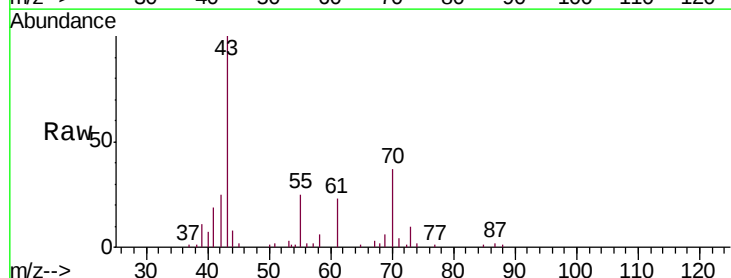
Ion Ratio Lower Upper

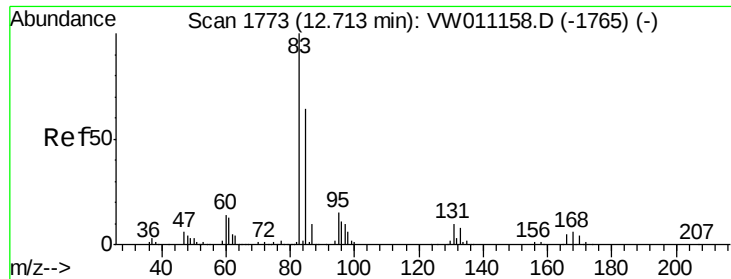
43 100

70 38.2 28.5 42.7

55 26.5 18.1 27.1

61 23.7 17.2 25.8





#75

1,1,2,2-Tetrachloroethane

Concen: 2.529 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

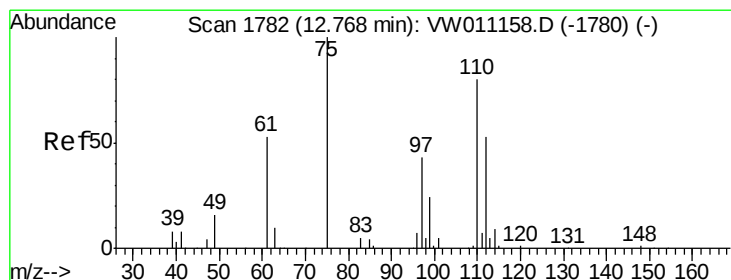
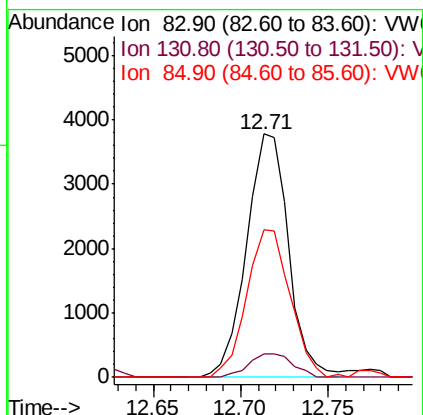
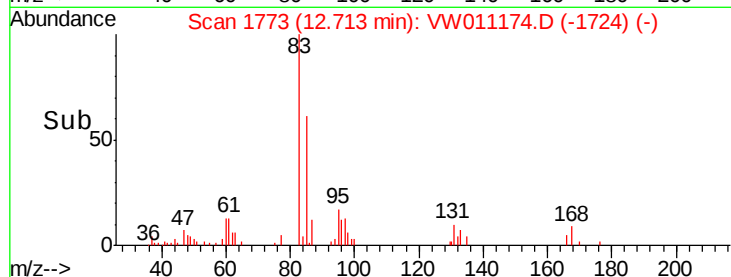
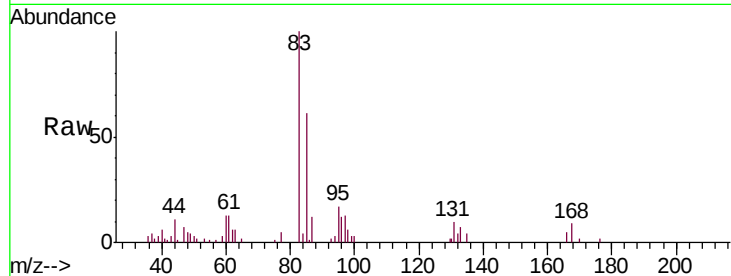
Tgt Ion: 83 Resp: 6377

Ion Ratio Lower Upper

83 100

131 10.1 5.0 15.0

85 62.9 31.6 94.8



#76

1,2,3-Trichloropropane

Concen: 4.048 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW011174.D

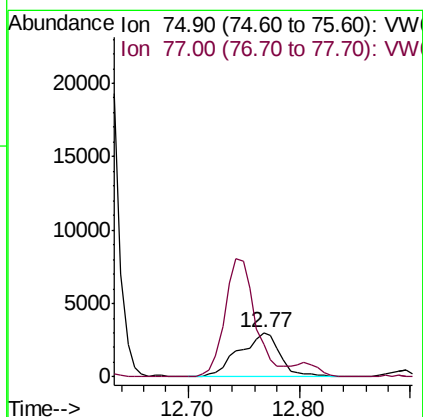
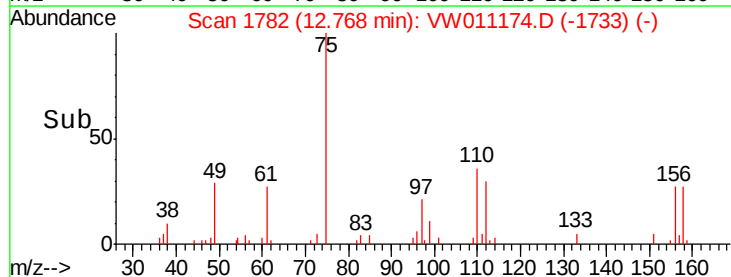
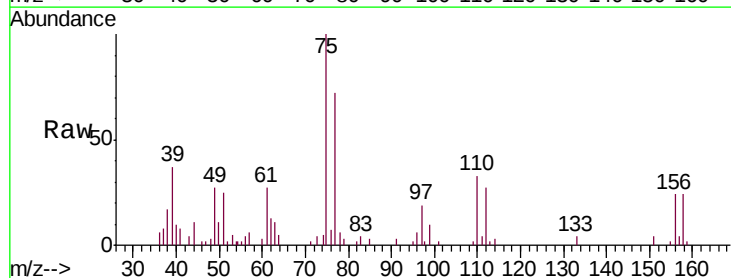
Acq: 09 Jul 2019 12:59

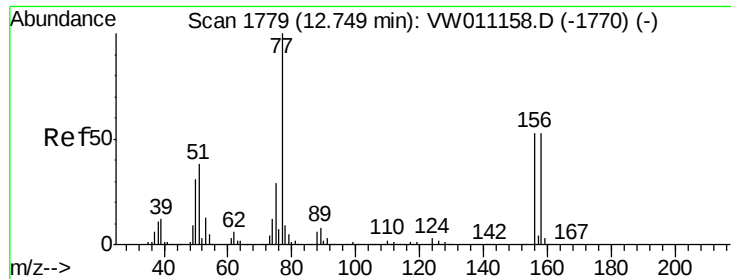
Tgt Ion: 75 Resp: 7698

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 2.584 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. -0.01 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

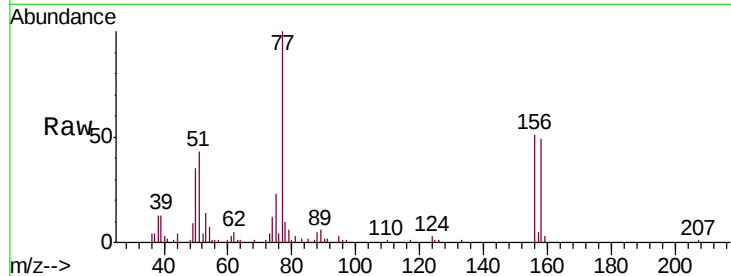
Tgt Ion: 156 Resp: 7135

Ion Ratio Lower Upper

156 100

77 215.4 109.0 327.0

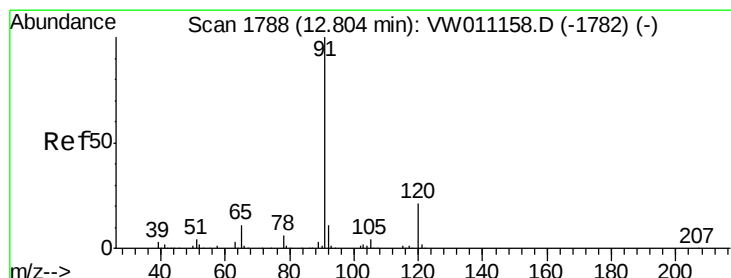
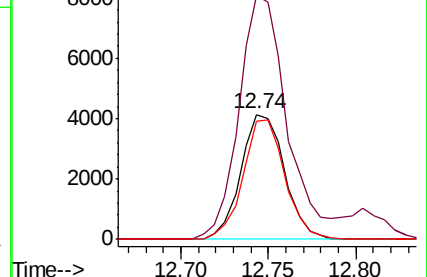
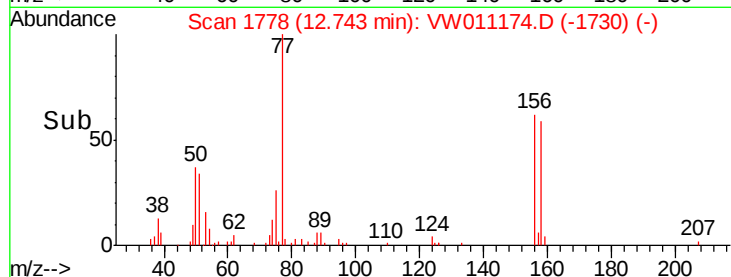
158 92.4 48.8 146.3



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: 2.517 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. 0.00 min

Lab File: VW011174.D

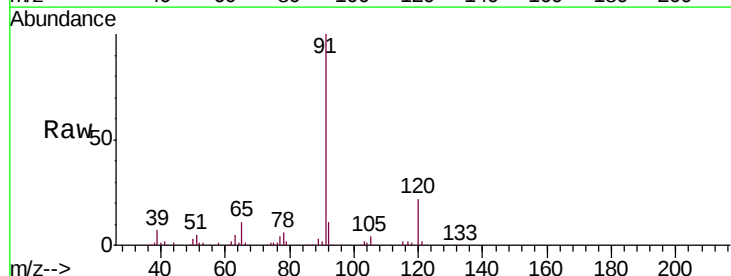
Acq: 09 Jul 2019 12:59

Tgt Ion: 91 Resp: 38151

Ion Ratio Lower Upper

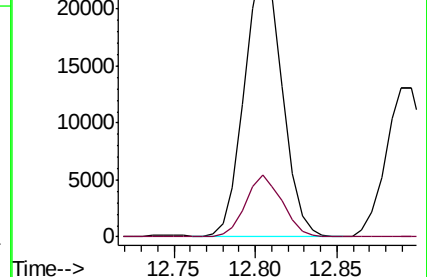
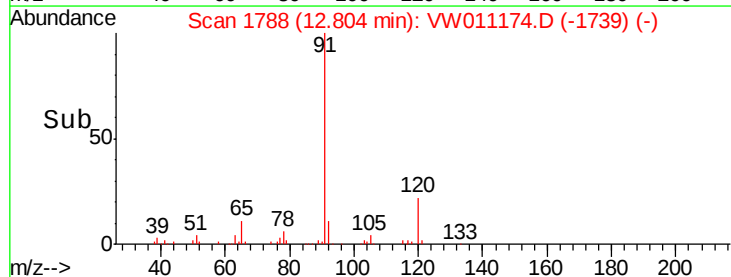
91 100

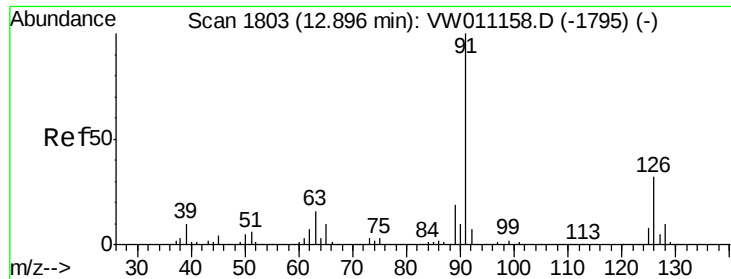
120 22.2 10.8 32.3



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V

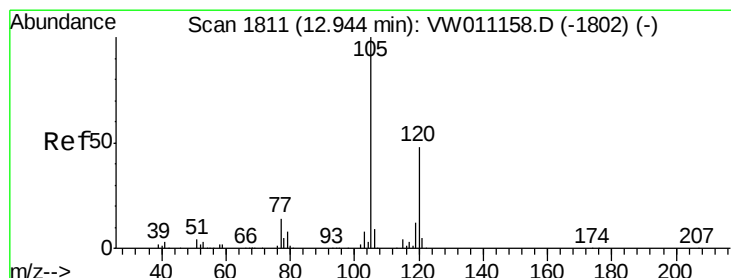
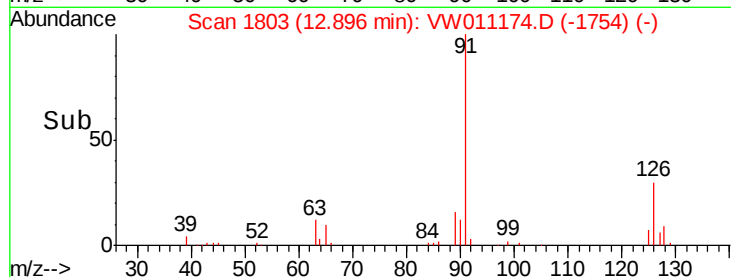
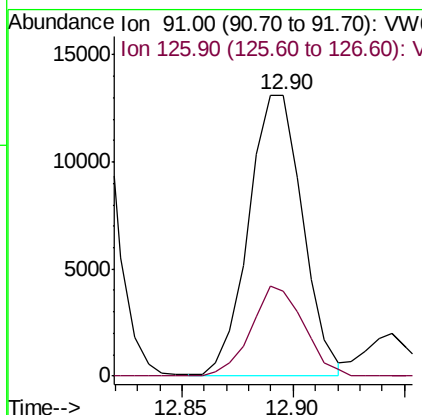
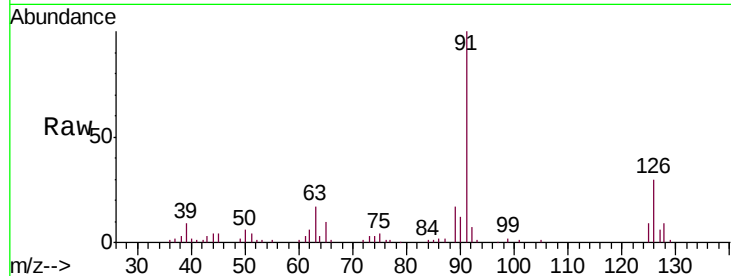




#79
2-Chlorotoluene
Concen: 2.528 ug/l
RT: 12.90 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

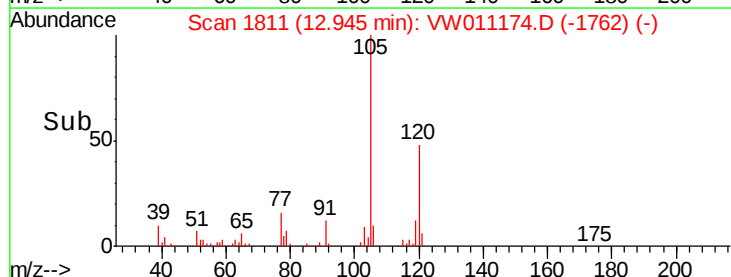
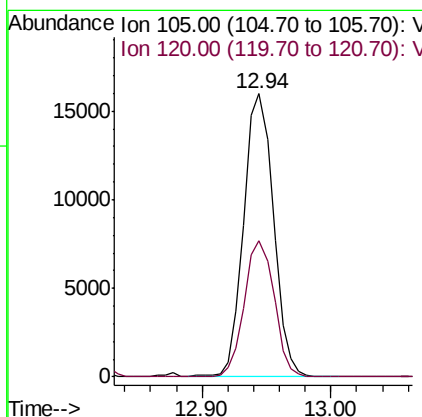
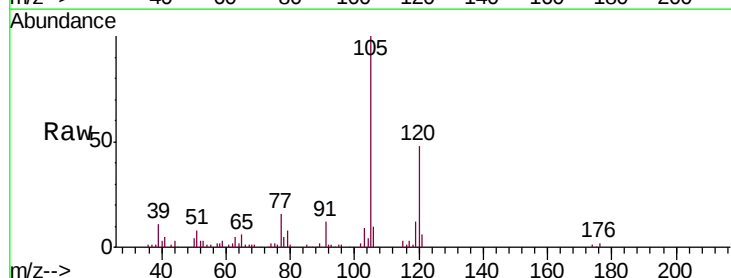
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

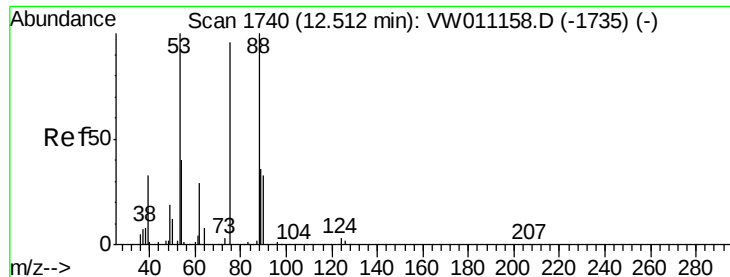
Tgt Ion: 91 Resp: 22048
Ion Ratio Lower Upper
91 100
126 31.3 15.8 47.3



#80
1,3,5-Trimethylbenzene
Concen: 2.441 ug/l
RT: 12.94 min Scan# 1811
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion: 105 Resp: 25515
Ion Ratio Lower Upper
105 100
120 48.2 24.1 72.2

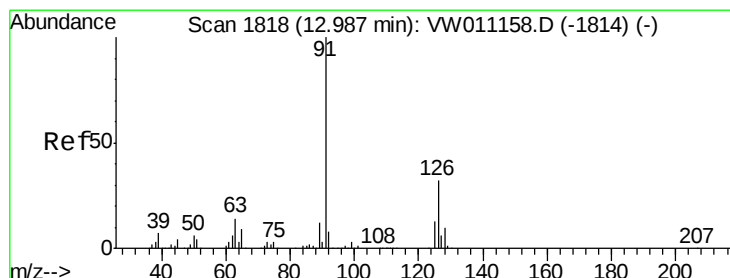
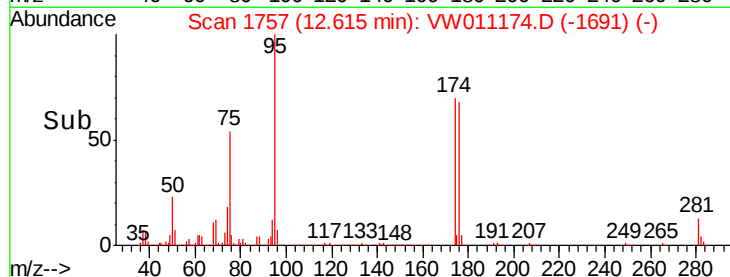
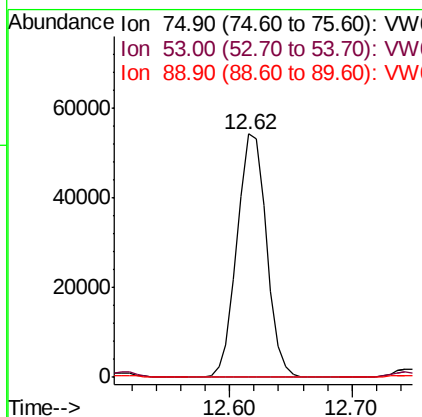
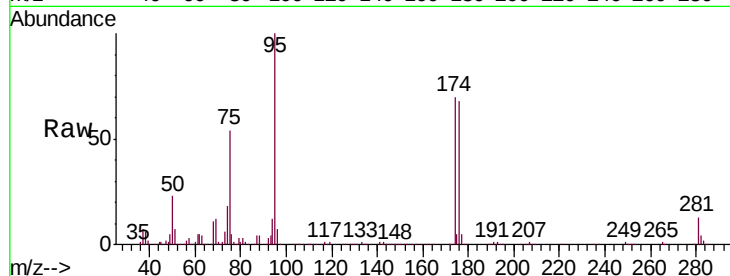




#81
trans-1,4-Dichloro-2-butene
Concen: 107.672 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.10 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

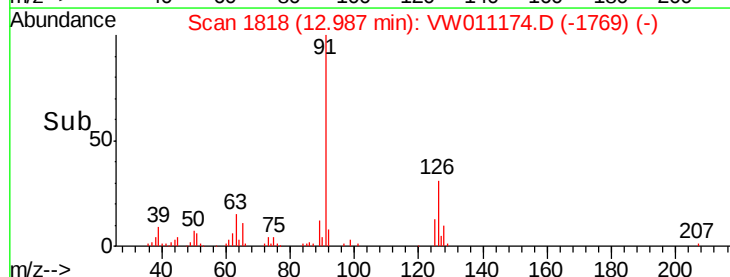
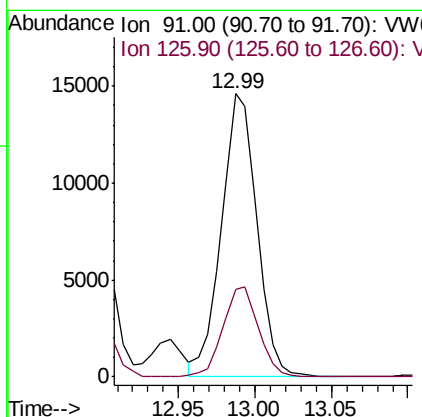
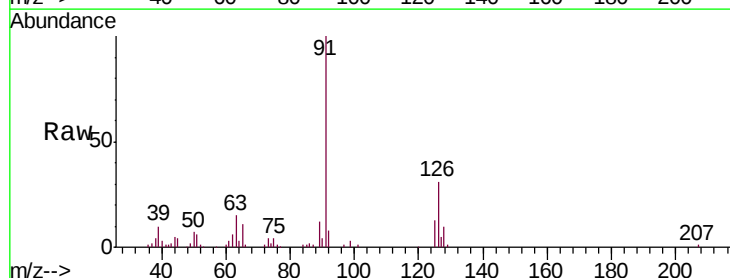
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

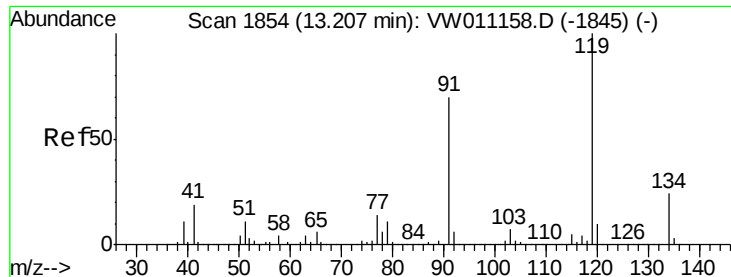
Tgt Ion: 75 Resp: 90539
Ion Ratio Lower Upper
75 100
53 0.1 89.8 134.6#
89 0.1 34.3 51.5#



#82
4-Chlorotoluene
Concen: 2.579 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion: 91 Resp: 23427
Ion Ratio Lower Upper
91 100
126 31.8 15.7 47.1

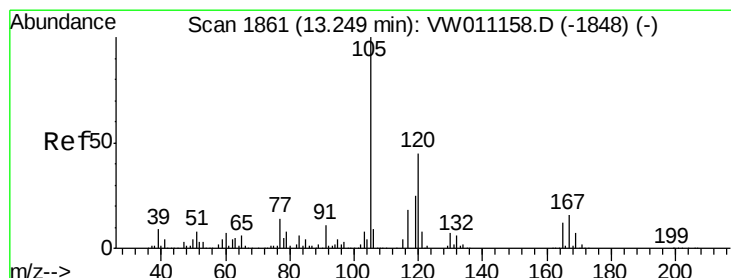
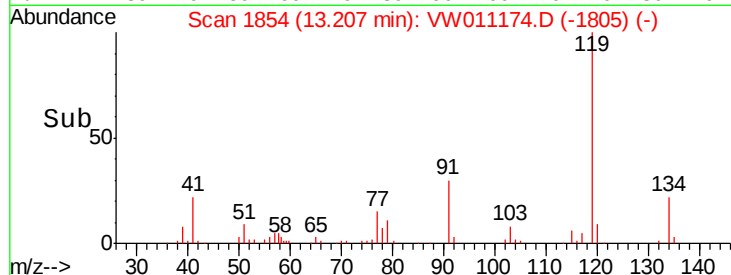
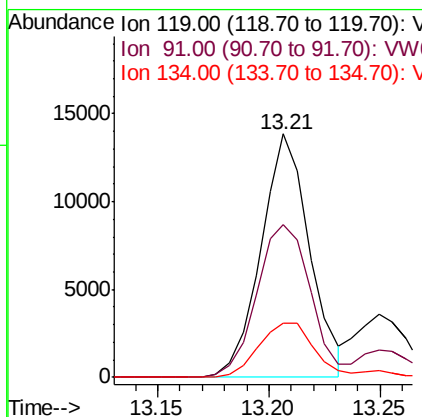
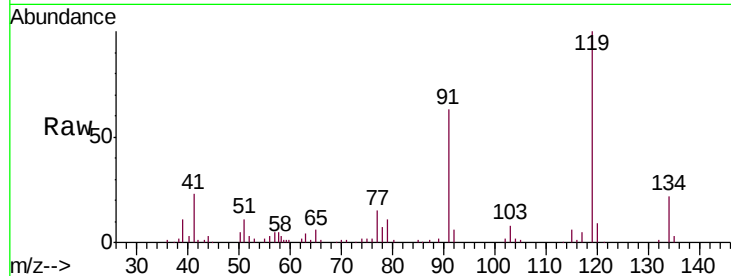




#83
tert-Butylbenzene
Concen: 2.405 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

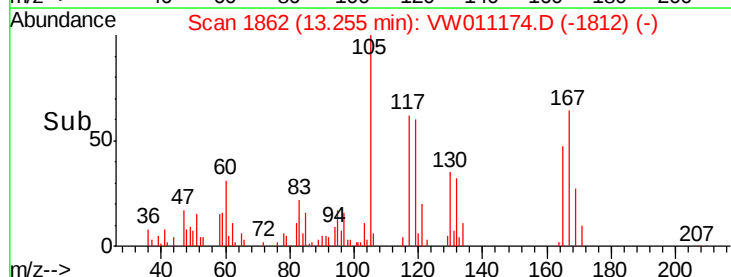
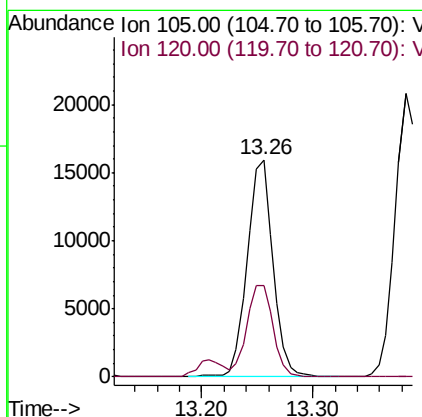
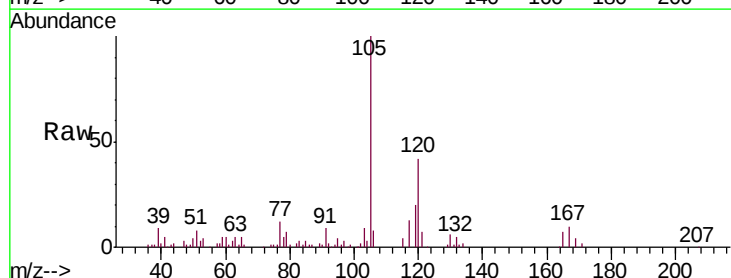
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

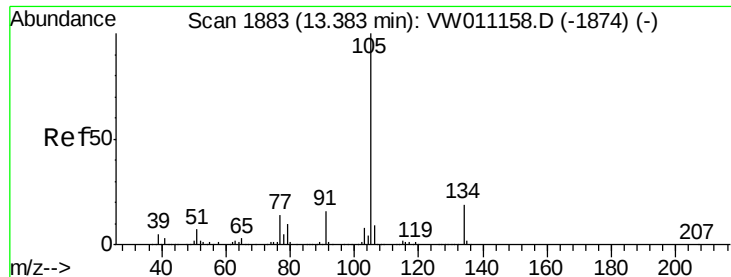
Tgt Ion:119 Resp: 20965
Ion Ratio Lower Upper
119 100
91 70.0 35.4 106.3
134 25.4 13.4 40.2



#84
1,2,4-Trimethylbenzene
Concen: 2.449 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. 0.01 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion:105 Resp: 25706
Ion Ratio Lower Upper
105 100
120 43.0 22.3 66.9

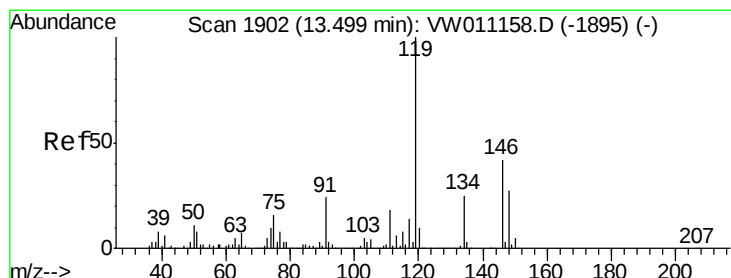
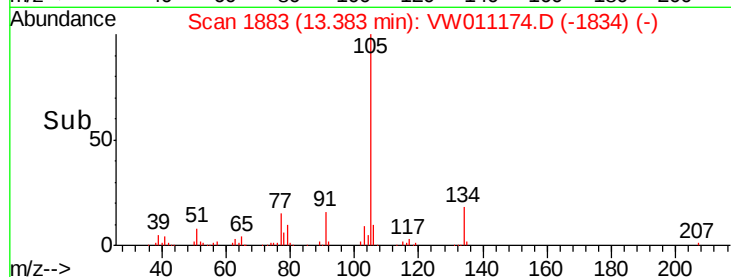
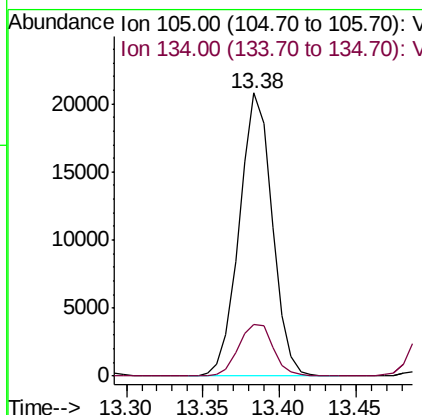
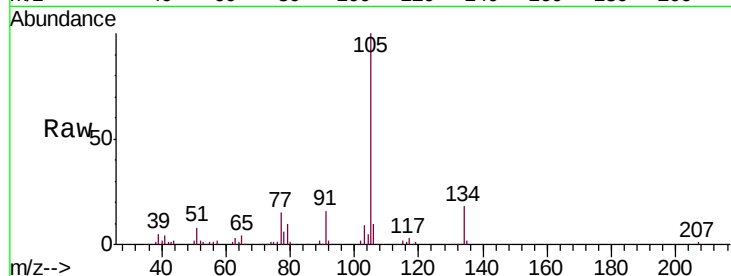




#85
 sec-Butylbenzene
 Concen: 2.475 ug/l
 RT: 13.38 min Scan# 1883
 Delta R.T. 0.00 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

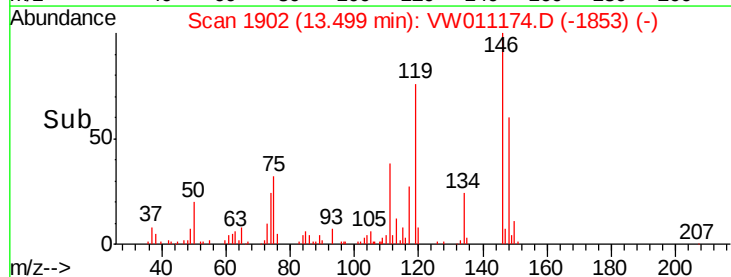
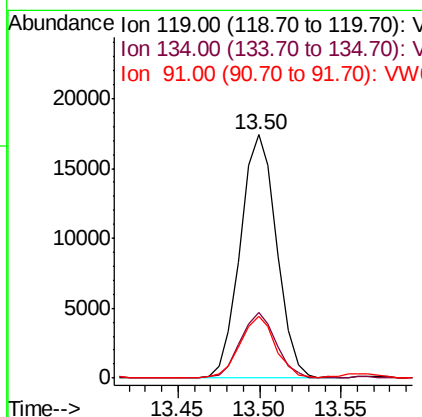
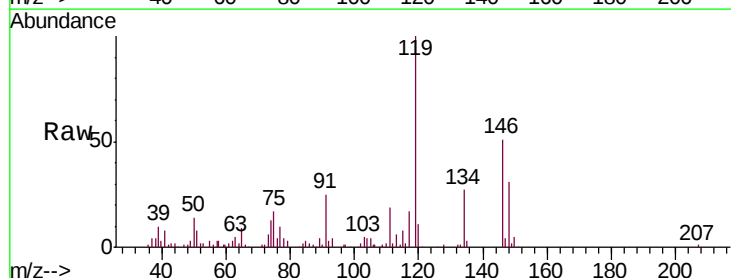
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT3-2019

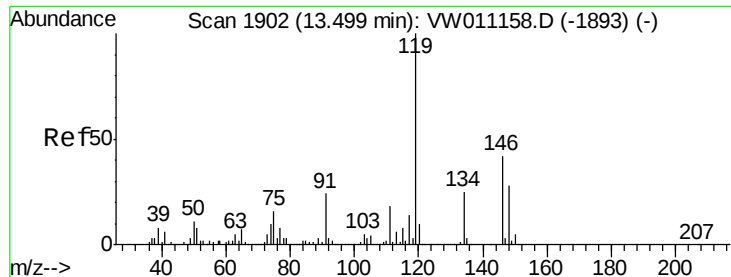
Tgt Ion:105 Resp: 31125
 Ion Ratio Lower Upper
 105 100
 134 19.2 9.7 28.9



#86
 p-Isopropyltoluene
 Concen: 2.401 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

Tgt Ion:119 Resp: 27092
 Ion Ratio Lower Upper
 119 100
 134 26.5 12.9 38.6
 91 24.8 12.3 36.8

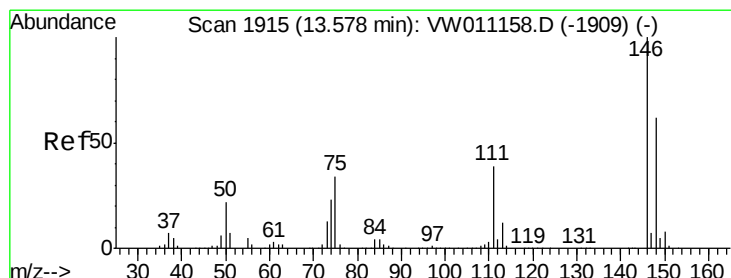
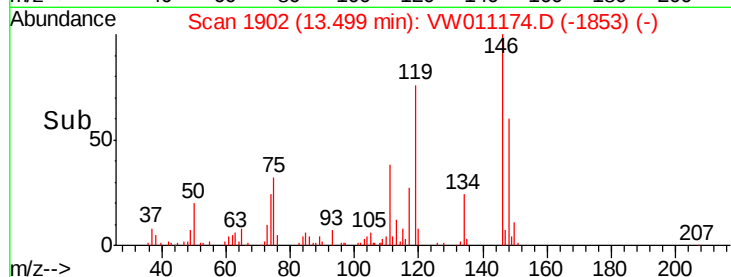
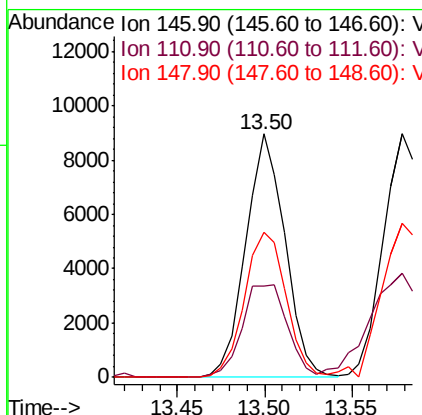
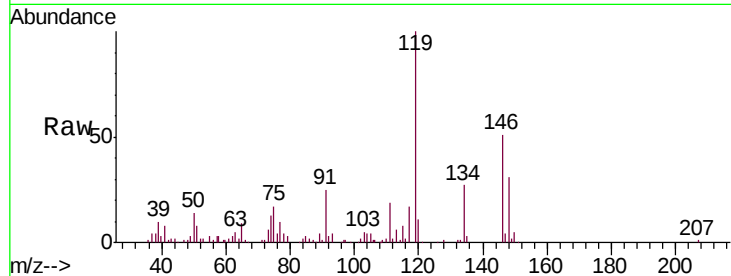




#87
 1,3-Dichlorobenzene
 Concen: 2.630 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

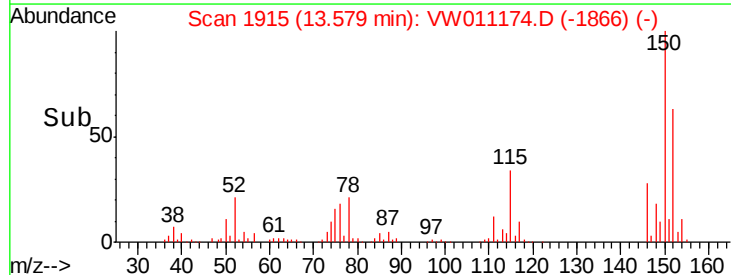
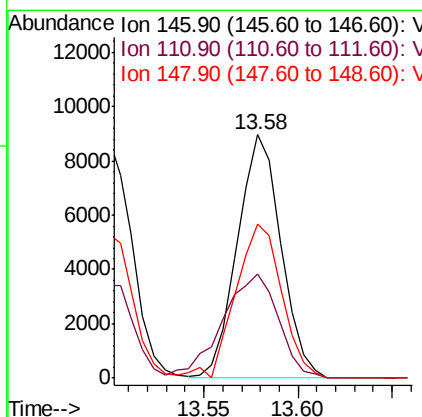
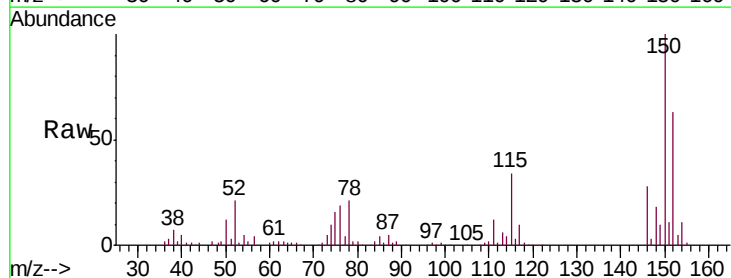
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT3-2019

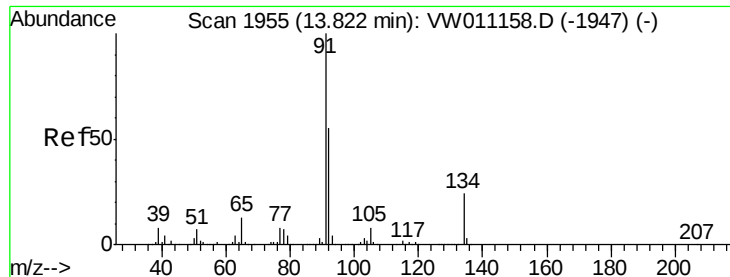
Tgt Ion:146 Resp: 13972
 Ion Ratio Lower Upper
 146 100
 111 43.8 21.1 63.1
 148 63.5 32.6 97.7



#88
 1,4-Dichlorobenzene
 Concen: 2.696 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

Tgt Ion:146 Resp: 14420
 Ion Ratio Lower Upper
 146 100
 111 54.7 19.9 59.7
 148 66.8 31.5 94.5





#89

n-Butylbenzene

Concen: 2.487 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. 0.01 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

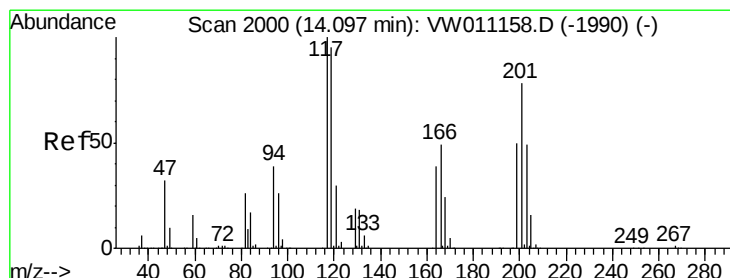
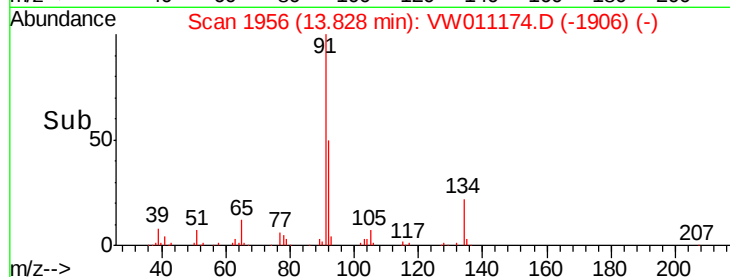
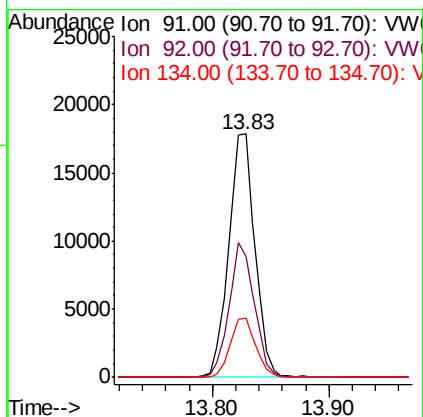
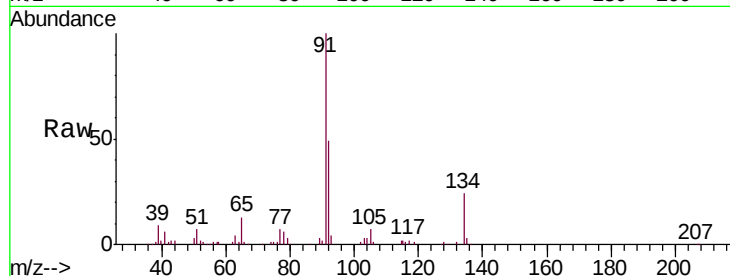
Tgt Ion: 91 Resp: 27992

Ion Ratio Lower Upper

91 100

92 52.9 26.9 80.7

134 23.6 12.2 36.4



#90

Hexachloroethane

Concen: 2.373 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. 0.00 min

Lab File: VW011174.D

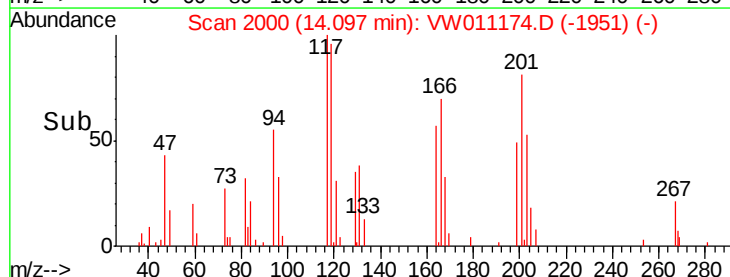
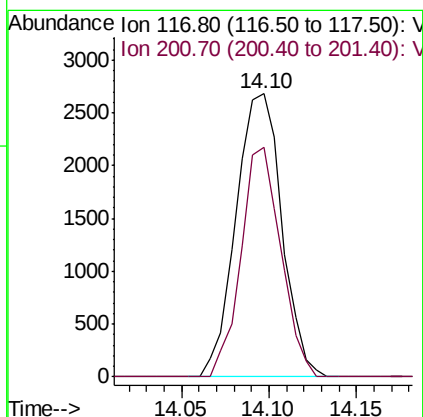
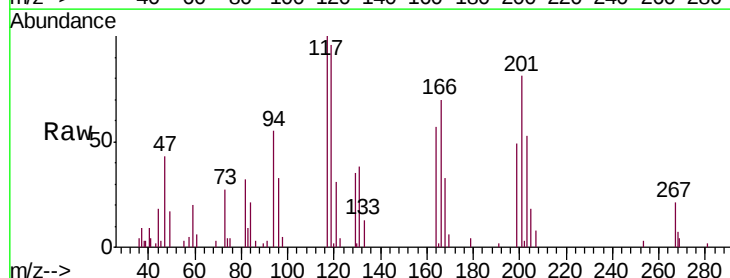
Acq: 09 Jul 2019 12:59

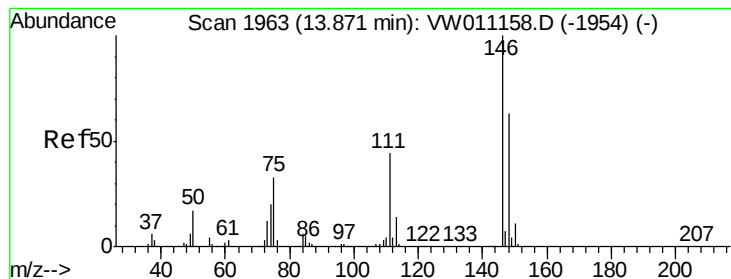
Tgt Ion: 117 Resp: 4891

Ion Ratio Lower Upper

117 100

201 70.5 38.3 114.8





#91

1,2-Dichlorobenzene

Concen: 2.605 ug/l

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT3-2019

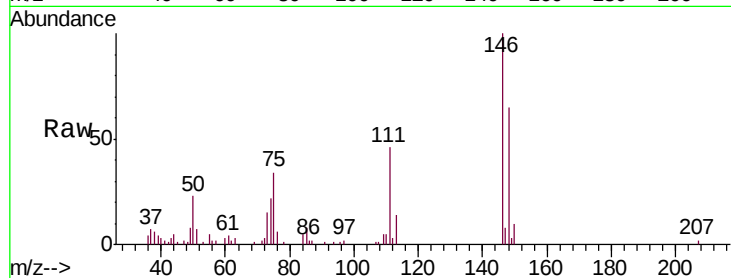
Tgt Ion: 146 Resp: 12556

Ion Ratio Lower Upper

146 100

111 42.4 21.6 65.0

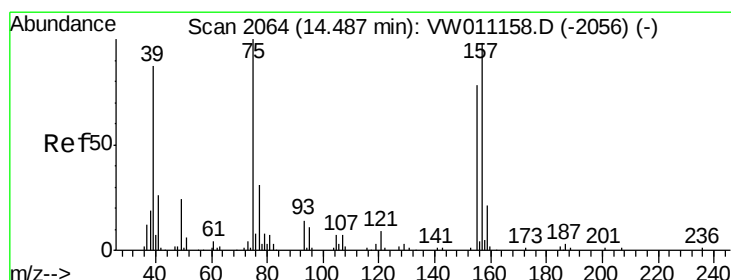
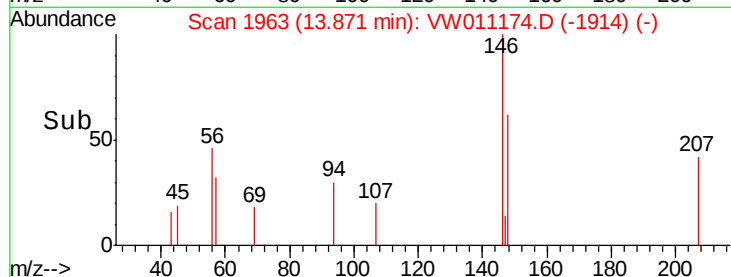
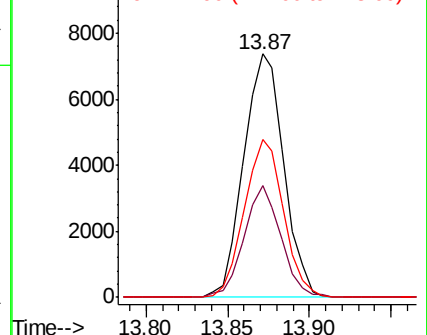
148 63.6 31.9 95.5



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.452 ug/l

RT: 14.49 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VW011174.D

Acq: 09 Jul 2019 12:59

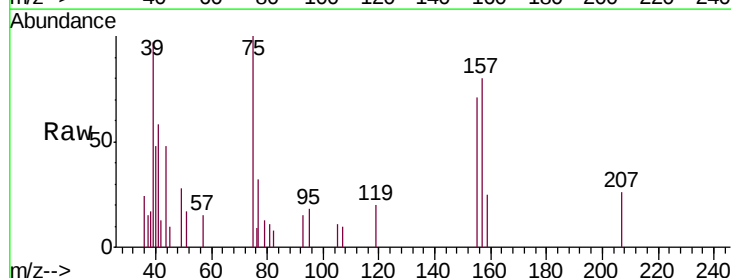
Tgt Ion: 75 Resp: 1097

Ion Ratio Lower Upper

75 100

155 58.6 37.1 111.3

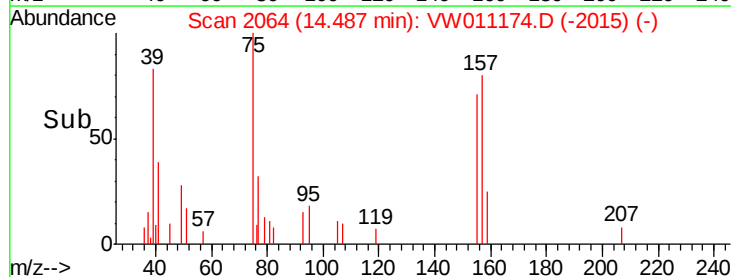
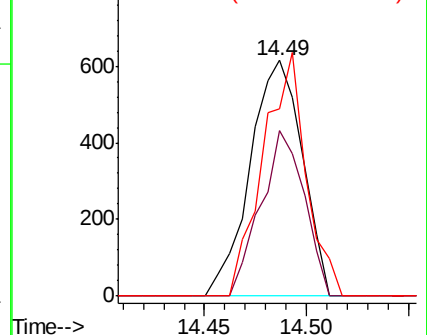
157 84.8 48.5 145.6

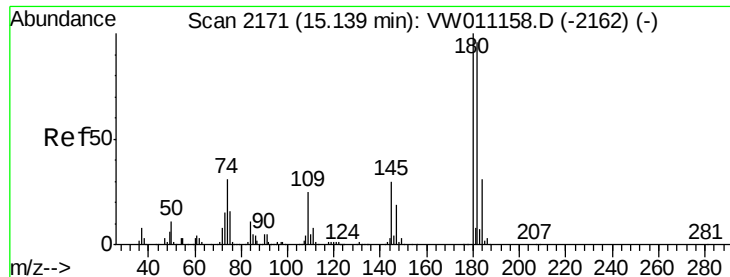


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

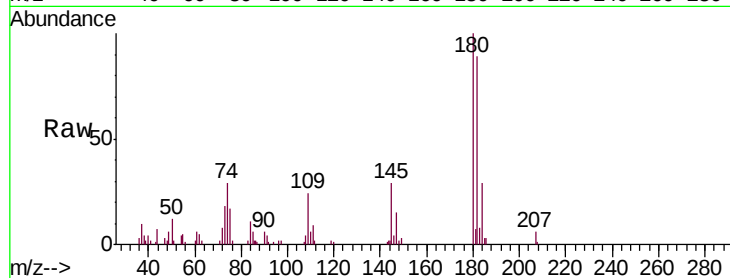




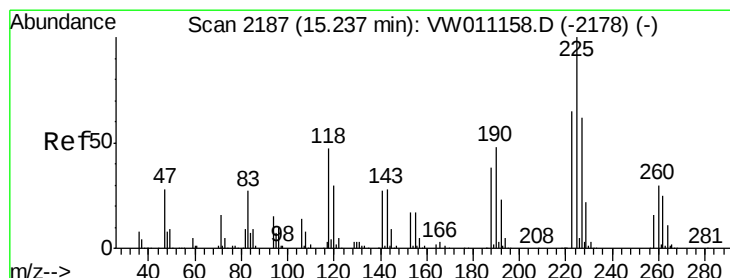
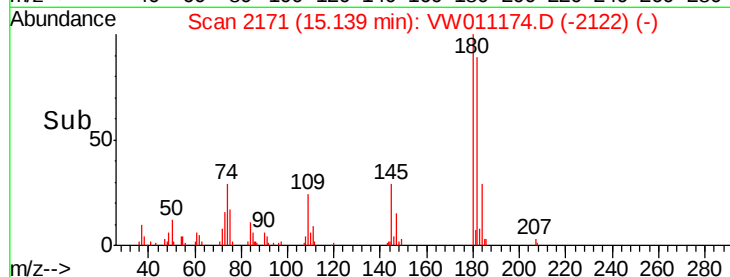
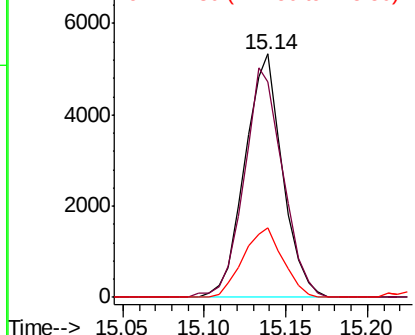
#93
 1,2,4-Trichlorobenzene
 Concen: 2.568 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT3-2019

Tgt Ion:180 Resp: 8524
 Ion Ratio Lower Upper
 180 100
 182 97.3 48.3 144.9
 145 30.4 15.5 46.5

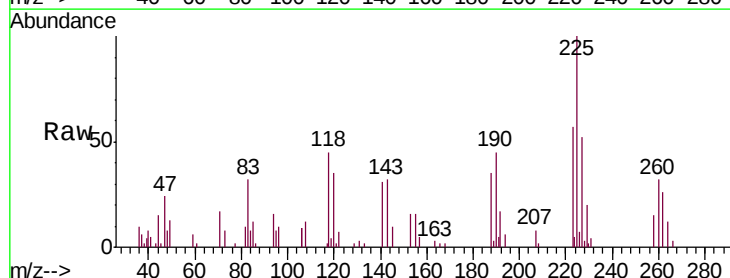


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

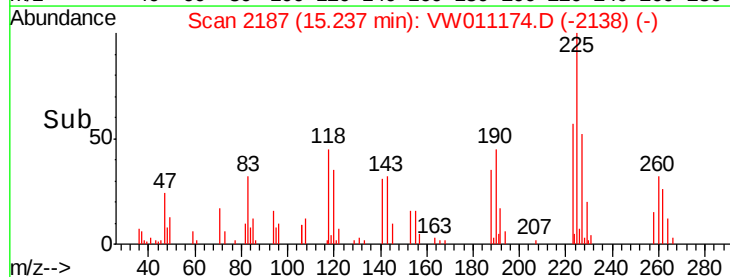
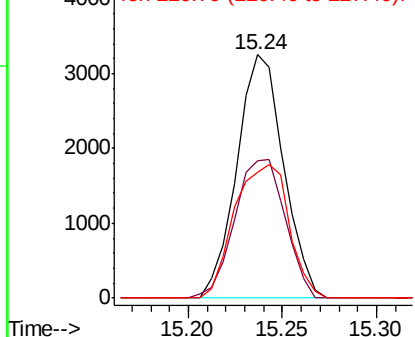


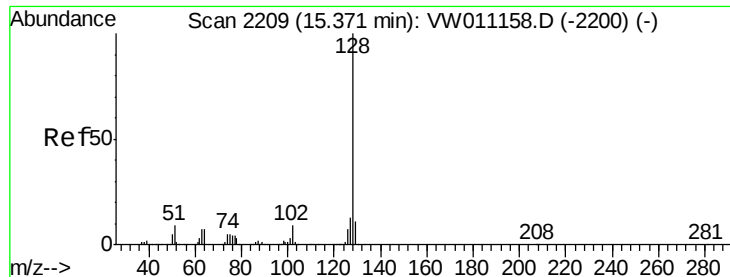
#94
 Hexachlorobutadiene
 Concen: 2.744 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. 0.00 min
 Lab File: VW011174.D
 Acq: 09 Jul 2019 12:59

Tgt Ion:225 Resp: 5592
 Ion Ratio Lower Upper
 225 100
 223 61.3 31.6 95.0
 227 63.9 32.0 96.0



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

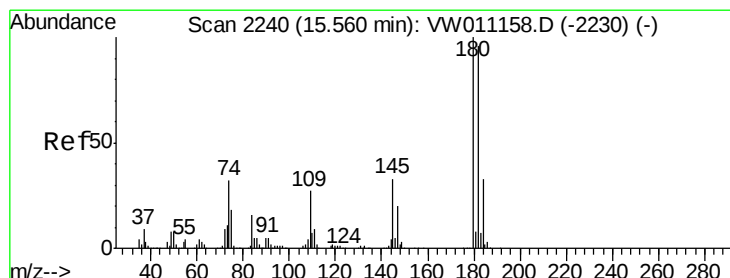
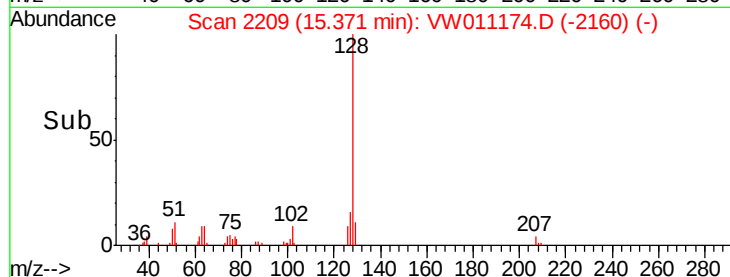
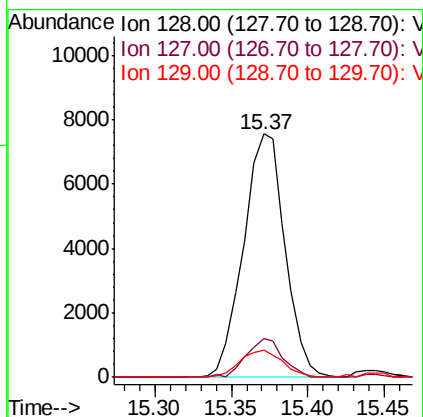
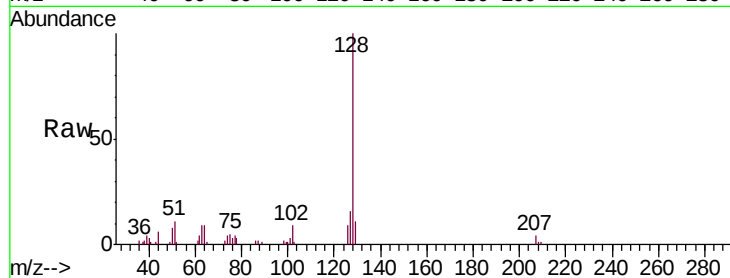




#95
Naphthalene
Concen: 2.243 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT3-2019

Tgt Ion:128 Resp: 14266
Ion Ratio Lower Upper
128 100
127 14.1 10.6 16.0
129 11.5 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 2.673 ug/l
RT: 15.56 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VW011174.D
Acq: 09 Jul 2019 12:59

Tgt Ion:180 Resp: 7830
Ion Ratio Lower Upper
180 100
182 97.7 47.6 142.8
145 33.8 16.5 49.5

