

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW070819\
 Data File : VW011166.D
 Acq On : 08 Jul 2019 17:40
 Operator : SY/VA
 Sample : K3591-01LOD4PPB
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

Quant Time: Jul 09 06:53:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W070819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 09 06:41:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	233971	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	396673	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	354154	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	173983	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	134154	45.63	ug/l	0.00
Spiked Amount			Recovery	=	91.26%	
35) Dibromofluoromethane	7.88	113	103157	43.63	ug/l	0.00
Spiked Amount			Recovery	=	87.26%	
50) Toluene-d8	10.32	98	414779	43.40	ug/l	0.00
Spiked Amount			Recovery	=	86.80%	
62) 4-Bromofluorobenzene	12.62	95	152701	43.59	ug/l	0.00
Spiked Amount			Recovery	=	87.18%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	6066	3.476	ug/l	95
3) Chloromethane	2.20	50	9553	4.249	ug/l	91
4) Vinyl Chloride	2.36	62	11594	3.940	ug/l	97
5) Bromomethane	2.77	94	6291	4.254	ug/l	100
6) Chloroethane	2.92	64	6113	3.856	ug/l	99
7) Trichlorofluoromethane	3.24	101	3175	3.037	ug/l #	80
8) Diethyl Ether	3.68	74	5816	4.021	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	4.06	101	10323	4.122	ug/l	97
10) Methyl Iodide	4.27	142	12884	3.741	ug/l	97
11) Tert butyl alcohol	5.17	59	4761	21.873	ug/l	98
12) 1,1-Dichloroethene	4.03	96	10237	3.939	ug/l	82
13) Acrolein	3.89	56	3519	20.303	ug/l	90
14) Allyl chloride	4.65	41	16566	3.495	ug/l	99
15) Acrylonitrile	5.37	53	14365	19.498	ug/l	98
16) Acetone	4.12	43	14382	20.331	ug/l	98
17) Carbon Disulfide	4.38	76	27627	3.506	ug/l	97
18) Methyl Acetate	4.67	43	12595	4.989	ug/l	98
19) Methyl tert-butyl Ether	5.42	73	16503	4.185	ug/l	97
20) Methylene Chloride	4.92	84	14527	5.206	ug/l	92
21) trans-1,2-Dichloroethene	5.42	96	10843	4.015	ug/l	92
22) Diisopropyl ether	6.31	45	39877	3.912	ug/l	93
23) Vinyl Acetate	6.25	43	101902	16.152	ug/l	100
24) 1,1-Dichloroethane	6.21	63	21297	3.978	ug/l	100
25) 2-Butanone	7.17	43	21896	19.719	ug/l	95
26) 2,2-Dichloropropane	7.17	77	10375	3.728	ug/l	97
27) cis-1,2-Dichloroethene	7.16	96	11556	3.967	ug/l	99
28) Bromochloromethane	7.51	49	11073	4.549	ug/l	98
29) Tetrahydrofuran	7.53	42	15018	20.626	ug/l	98
30) Chloroform	7.67	83	20735	4.183	ug/l	96
31) Cyclohexane	7.95	56	26927	4.728	ug/l #	77
32) 1,1,1-Trichloroethane	7.87	97	14361	3.808	ug/l	97
36) 1,1-Dichloropropene	8.07	75	16566	3.922	ug/l	99
37) Ethyl Acetate	7.25	43	9970	3.928	ug/l	96
38) Carbon Tetrachloride	8.06	117	12965	3.621	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	19509	3.810	ug/l	96
40) Benzene	8.32	78	46594	3.991	ug/l	100
41) Methacrylonitrile	7.48	41	6736	4.640	ug/l	88
42) 1,2-Dichloroethane	8.40	62	15466	4.084	ug/l	100
43) Isopropyl Acetate	8.42	43	18539	3.869	ug/l	97
44) Trichloroethene	9.09	130	10762	3.831	ug/l	99
45) 1,2-Dichloropropane	9.37	63	12099	3.827	ug/l	98
46) Dibromomethane	9.46	93	5747	3.870	ug/l	98
47) Bromodichloromethane	9.64	83	14080	3.706	ug/l	99
48) Methyl methacrylate	9.44	41	8324	3.611	ug/l	94
49) 1,4-Dioxane	9.44	88	1714	69.148	ug/l #	73
51) 4-Methyl-2-Pentanone	10.21	43	47729	19.068	ug/l	99
52) Toluene	10.38	92	27499	3.883	ug/l	99
53) t-1,3-Dichloropropene	10.60	75	13801	3.412	ug/l	94
54) cis-1,3-Dichloropropene	10.07	75	17408	3.657	ug/l	93
55) 1,1,2-Trichloroethane	10.79	97	8427	4.000	ug/l	95
56) Ethyl methacrylate	10.64	69	11452	3.570	ug/l	92
57) 1,3-Dichloropropane	10.93	76	16035	4.025	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.92	63	28900	19.435	ug/l	98
59) 2-Hexanone	10.97	43	31651	18.233	ug/l	99
60) Dibromochloromethane	11.13	129	8316	3.600	ug/l	99
61) 1,2-Dibromoethane	11.23	107	7839	3.928	ug/l	99
64) Tetrachloroethene	10.86	164	9798	4.100	ug/l	97
65) Chlorobenzene	11.66	112	28752	3.993	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.73	131	9634	3.800	ug/l	95
67) Ethyl Benzene	11.73	91	51994	3.772	ug/l	94
68) m/p-Xylenes	11.84	106	38008	7.620	ug/l	98
69) o-Xylene	12.16	106	17823	3.791	ug/l	99
70) Styrene	12.18	104	29363	3.619	ug/l	99
71) Bromoform	12.35	173	4660	3.457	ug/l #	97
73) Isopropylbenzene	12.46	105	49102	3.775	ug/l	100
74) N-amyl acetate	12.27	43	16157	3.567	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.71	83	10345	3.880	ug/l	99
76) 1,2,3-Trichloropropane	12.77	75	13148	6.539	ug/l #	100
77) Bromobenzene	12.75	156	11520	3.947	ug/l	100
78) n-propylbenzene	12.80	91	60366	3.768	ug/l	100
79) 2-Chlorotoluene	12.89	91	35786	3.882	ug/l	100
80) 1,3,5-Trimethylbenzene	12.94	105	41286	3.737	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.51	75	2685	3.020	ug/l	92
82) 4-Chlorotoluene	12.99	91	37134	3.867	ug/l	99
83) tert-Butylbenzene	13.21	119	34365	3.729	ug/l	97
84) 1,2,4-Trimethylbenzene	13.25	105	41369	3.729	ug/l	98
85) sec-Butylbenzene	13.38	105	50063	3.765	ug/l	100
86) p-Isopropyltoluene	13.50	119	44770	3.754	ug/l	98
87) 1,3-Dichlorobenzene	13.50	146	21944	3.908	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	22710	4.016	ug/l	89
89) n-Butylbenzene	13.82	91	44958	3.779	ug/l	99
90) Hexachloroethane	14.10	117	7763	3.562	ug/l	95
91) 1,2-Dichlorobenzene	13.87	146	19973	3.920	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	1651	3.491	ug/l	97

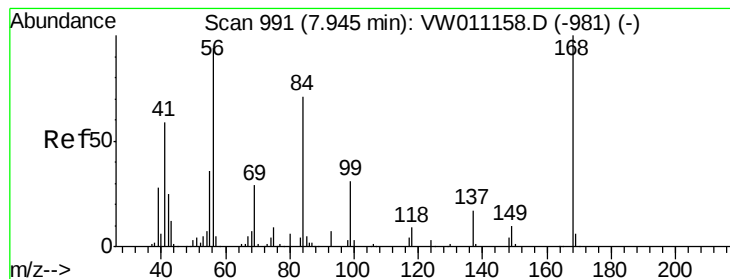
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	13559	3.864	ug/l	99
94) Hexachlorobutadiene	15.24	225	8663	4.021	ug/l	99
95) Naphthalene	15.37	128	23364	3.475	ug/l	99
96) 1,2,3-Trichlorobenzene	15.56	180	12482	4.030	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

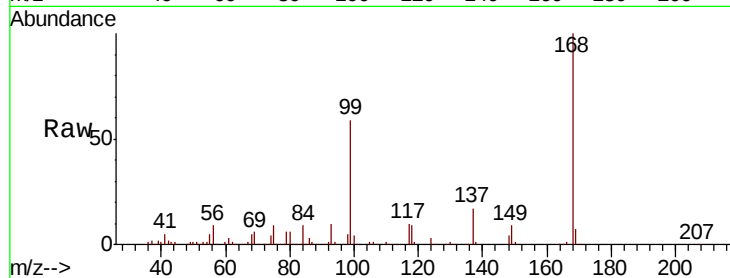
LOD-MDL-SOIL-01-QT3-2019

Tot Ion:168 Resp: 233971

Ion Ratio Lower Upper

168 100

99 59.2 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

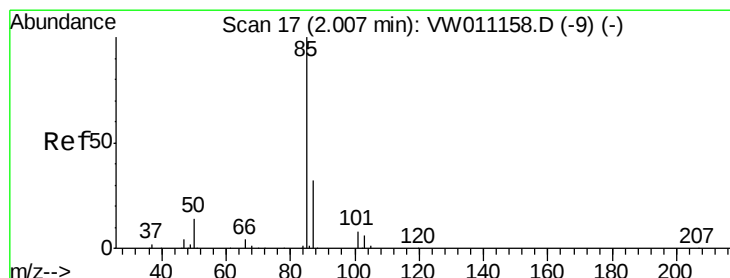
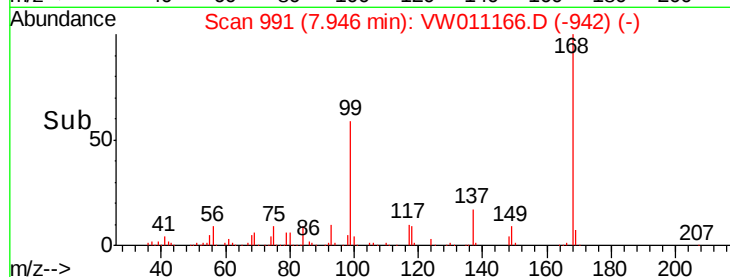
20000

0

7.90

8.00

Time-->



#2

Dichlorodifluoromethane

Concen: 3.476 ug/l

RT: 2.00 min Scan# 16

Delta R.T. -0.01 min

Lab File: VW011166.D

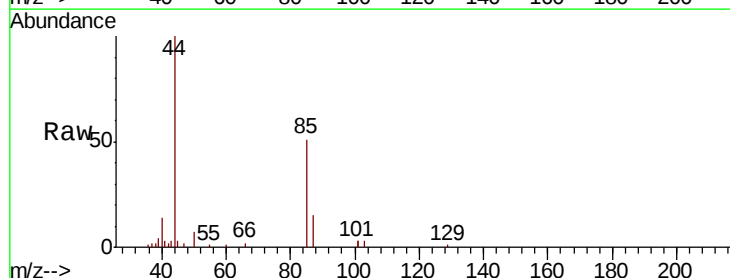
Acq: 08 Jul 2019 17:40

Tgt Ion: 85 Resp: 6066

Ion Ratio Lower Upper

85 100

87 29.0 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

2500

2000

1500

1000

500

0

1.90

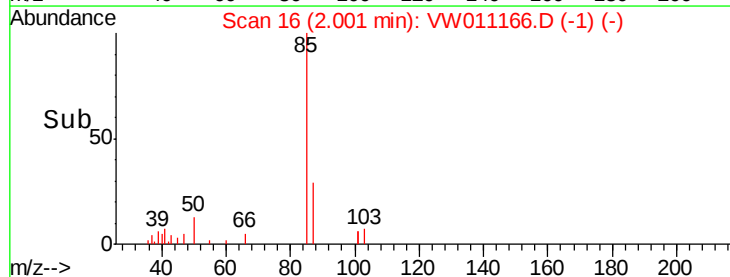
1.95

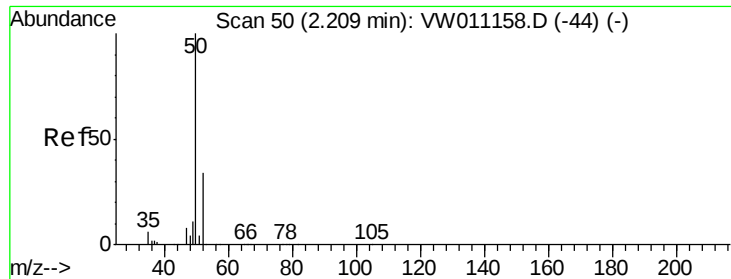
2.00

2.05

2.10

Time-->





#3

Chloromethane

Concen: 4.249 ug/l

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

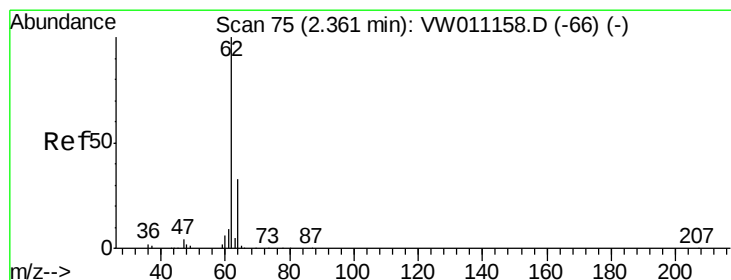
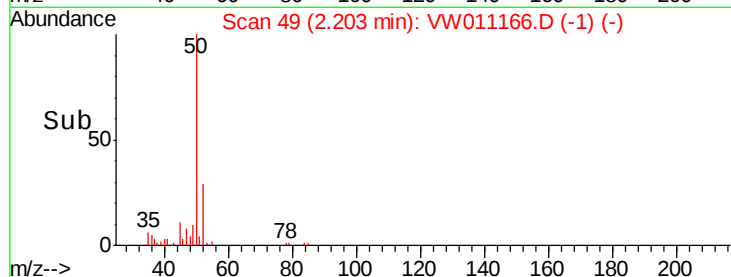
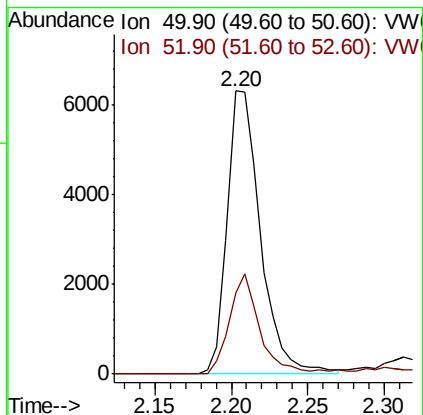
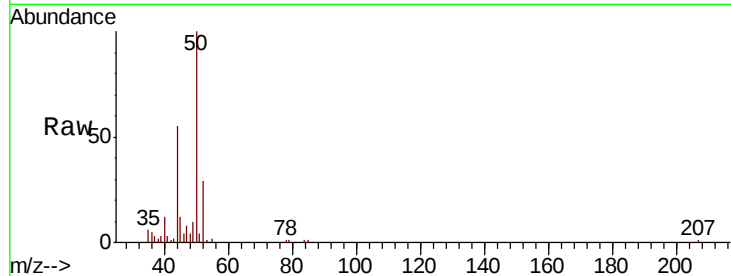
LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 50 Resp: 9553

Ion Ratio Lower Upper

50 100

52 28.6 26.9 40.3



#4

Vinyl Chloride

Concen: 3.940 ug/l

RT: 2.36 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW011166.D

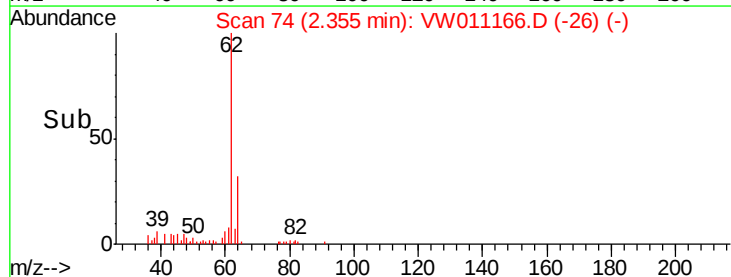
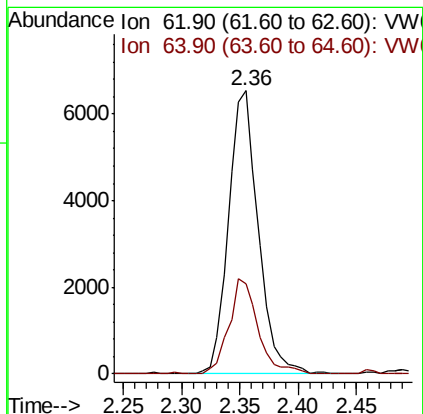
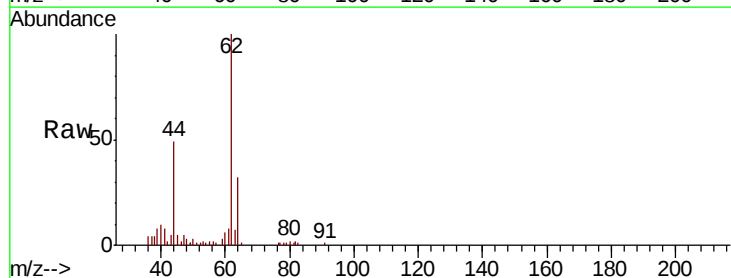
Acq: 08 Jul 2019 17:40

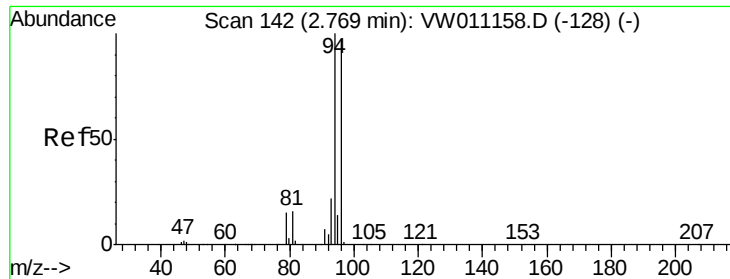
Tgt Ion: 62 Resp: 11594

Ion Ratio Lower Upper

62 100

64 31.8 26.6 40.0





#5

Bromomethane

Concen: 4.254 ug/l

RT: 2.77 min Scan# 142

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

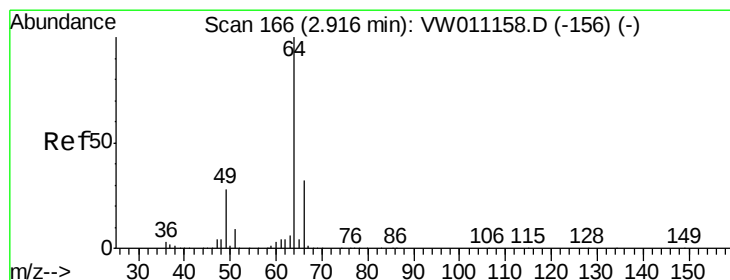
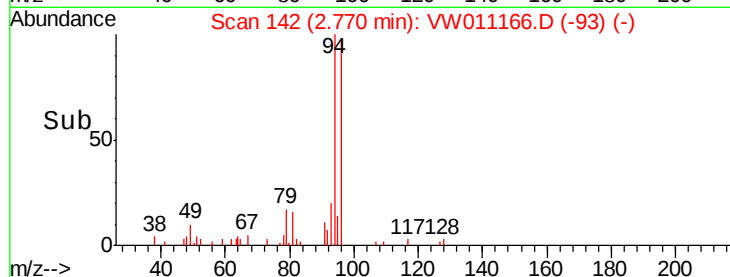
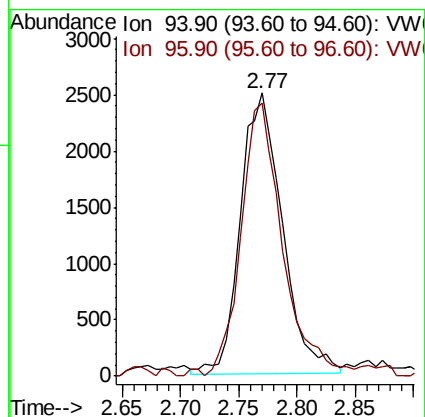
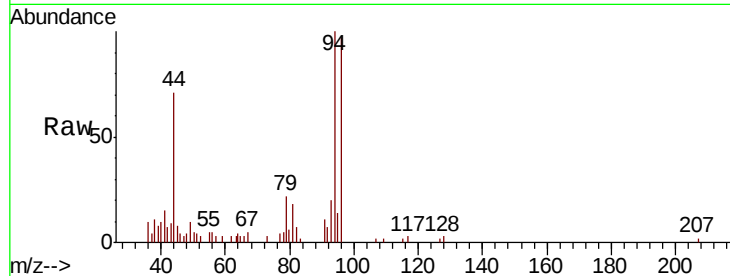
LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 94 Resp: 6291

Ion Ratio Lower Upper

94 100

96 96.3 77.4 116.0



#6

Chloroethane

Concen: 3.856 ug/l

RT: 2.92 min Scan# 167

Delta R.T. 0.01 min

Lab File: VW011166.D

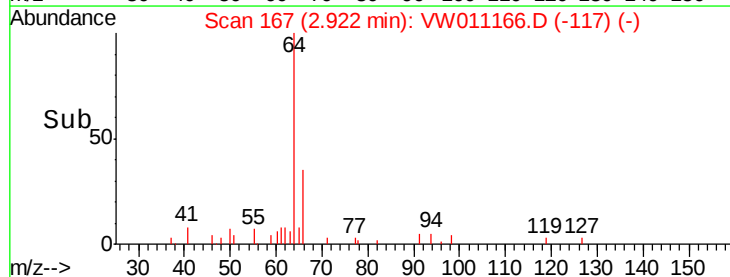
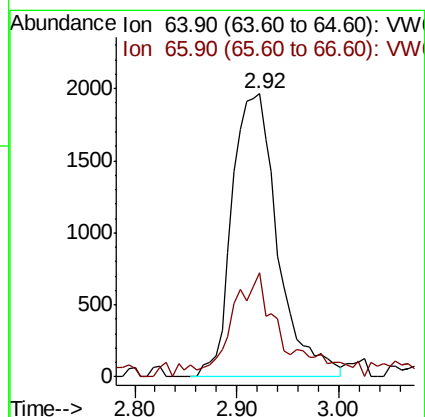
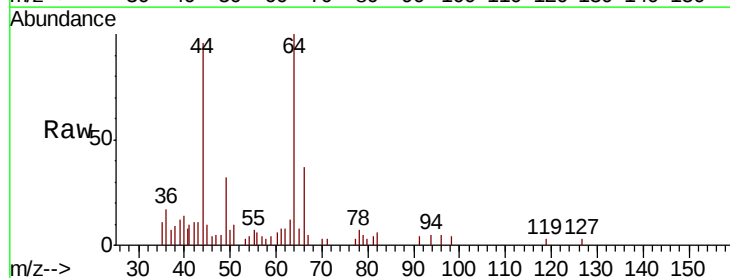
Acq: 08 Jul 2019 17:40

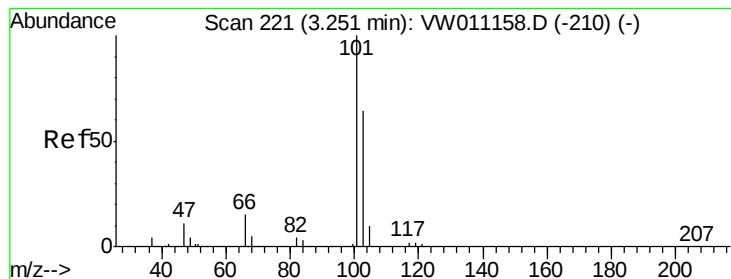
Tgt Ion: 64 Resp: 6113

Ion Ratio Lower Upper

64 100

66 32.9 25.8 38.8





#7

Trichlorofluoromethane

Concen: 3.037 ug/l

RT: 3.24 min Scan# 219

Delta R.T. -0.01 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

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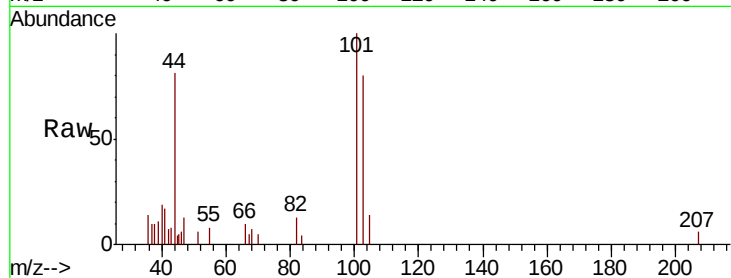
LOD-MDL-SOIL-01-QT3-2019

Tot Ion:101 Resp: 3175

Ion Ratio Lower Upper

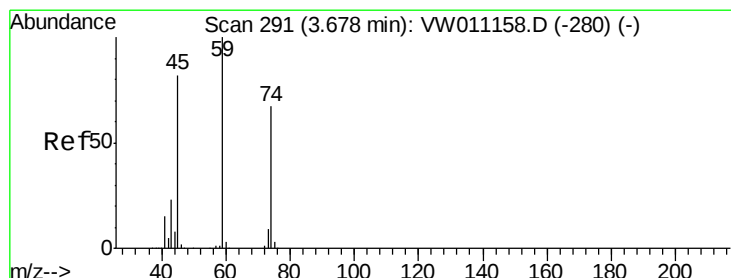
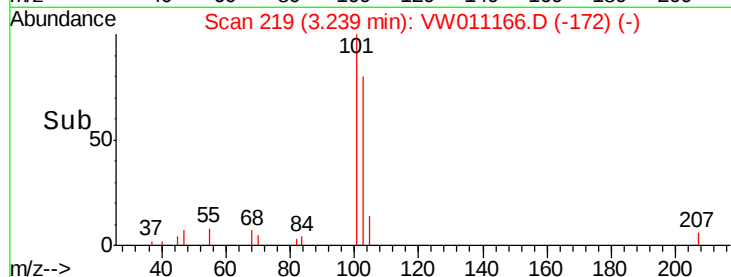
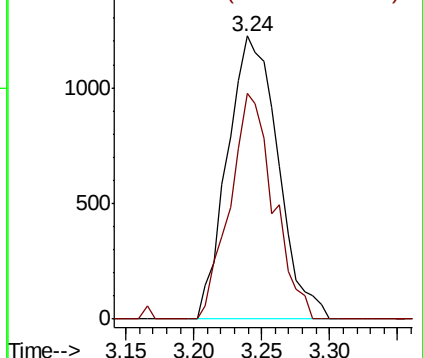
101 100

103 79.7 51.3 76.9#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 4.021 ug/l

RT: 3.68 min Scan# 291

Delta R.T. 0.00 min

Lab File: VW011166.D

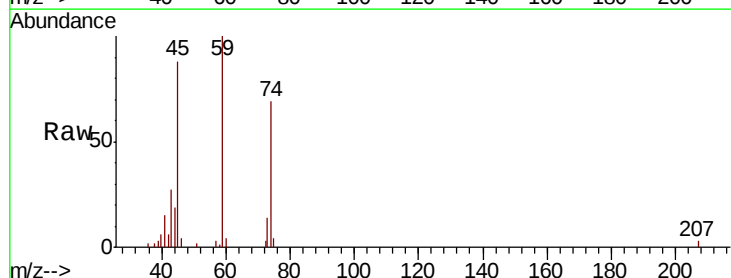
Acq: 08 Jul 2019 17:40

Tgt Ion: 74 Resp: 5816

Ion Ratio Lower Upper

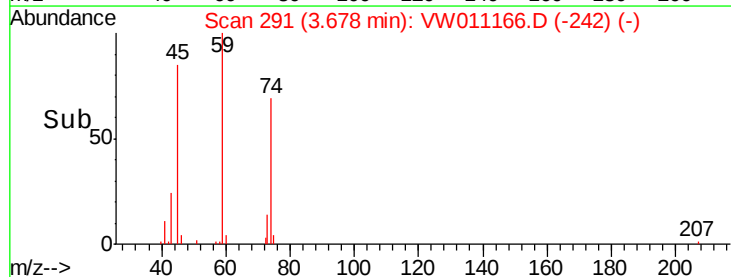
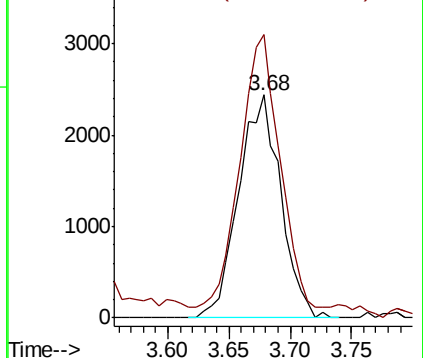
74 100

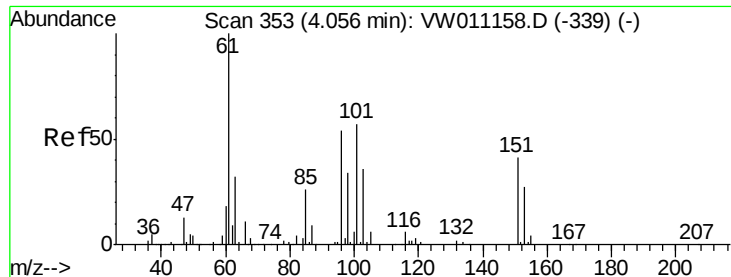
45 117.7 59.9 179.7



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.122 ug/l

RT: 4.06 min Scan# 353

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

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ClientSampleId :

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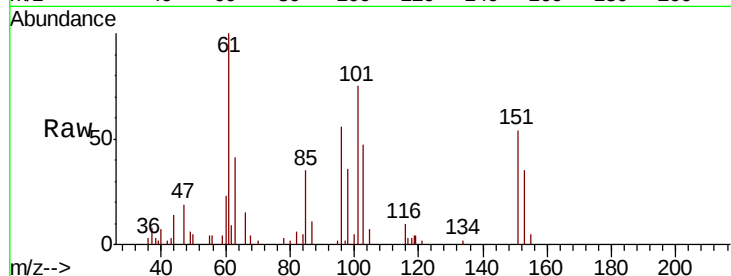
Tot Ion:101 Resp: 10323

Ion Ratio Lower Upper

101 100

85 44.8 36.5 54.7

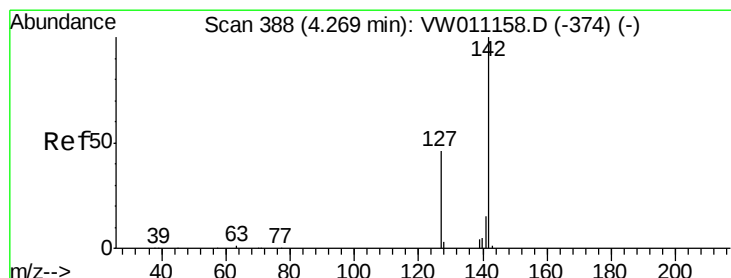
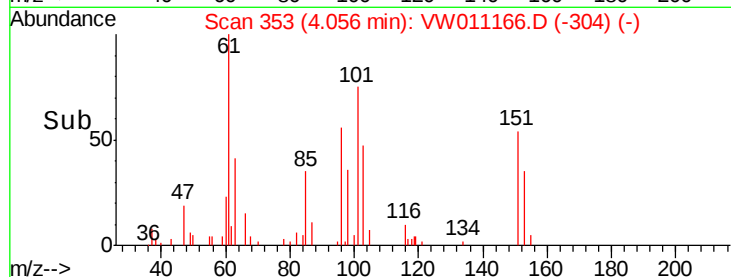
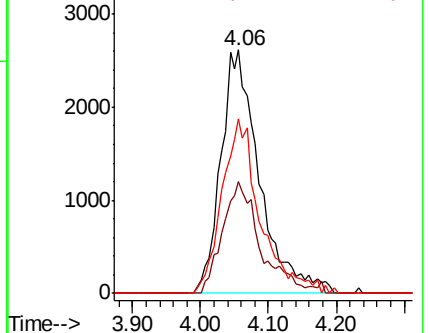
151 70.7 59.1 88.7



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 3.741 ug/l

RT: 4.27 min Scan# 388

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

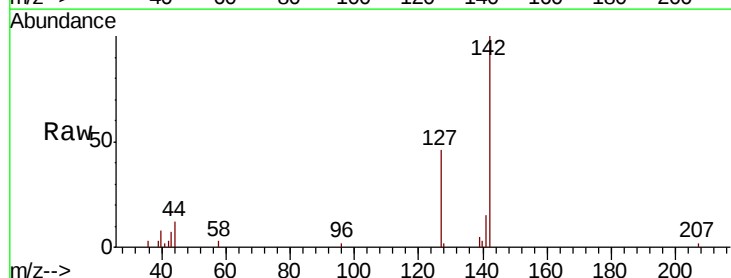
Tgt Ion:142 Resp: 12884

Ion Ratio Lower Upper

142 100

127 47.0 35.7 53.5

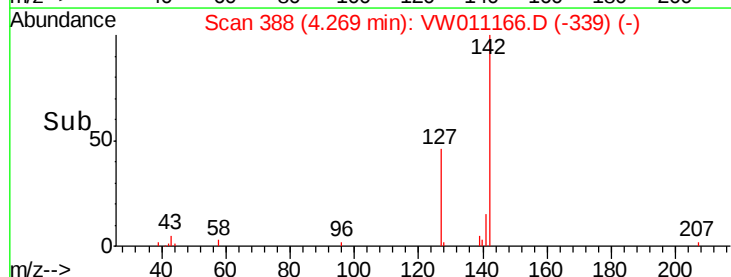
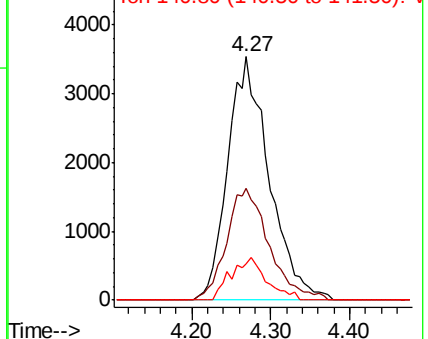
141 14.9 11.5 17.3

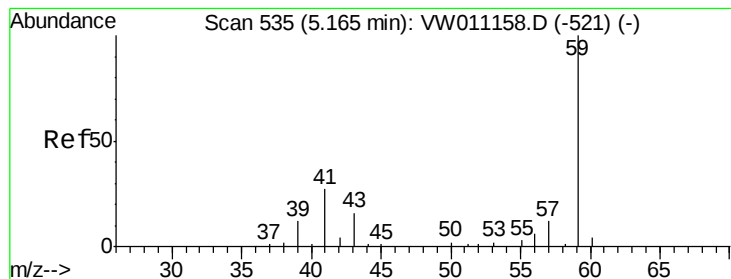


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



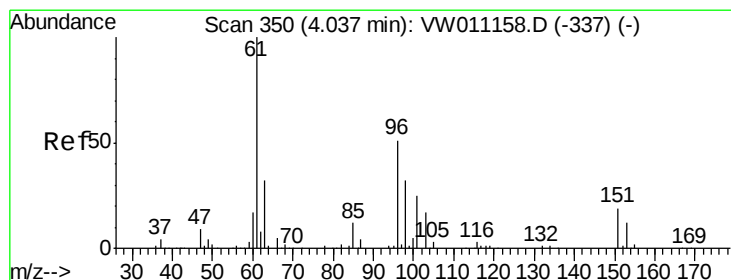
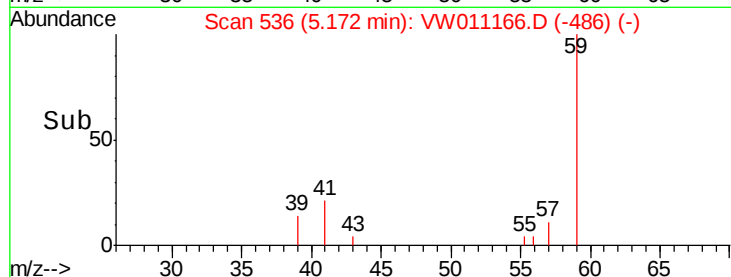
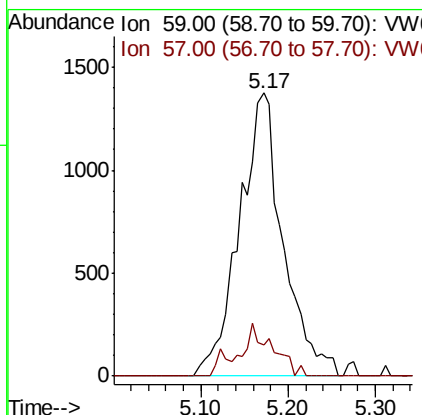
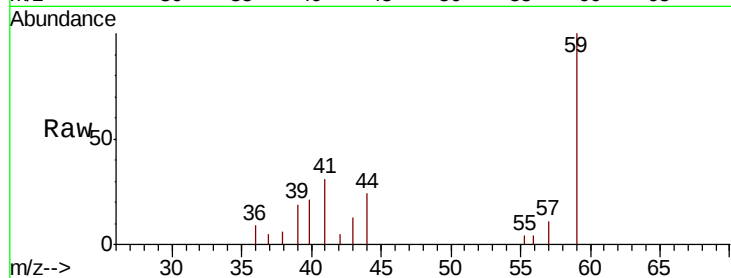


#11

Tert butyl alcohol
 Concen: 21.873 ug/l
 RT: 5.17 min Scan# 536
 Delta R.T. 0.01 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

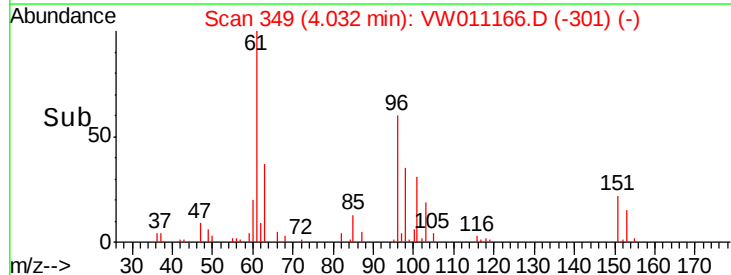
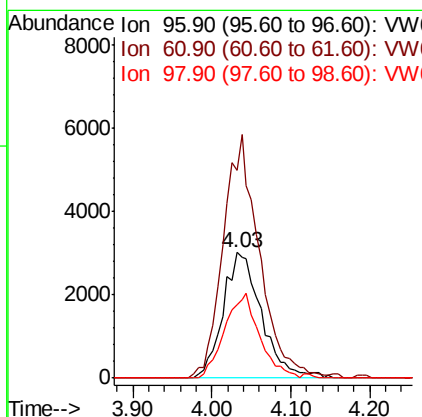
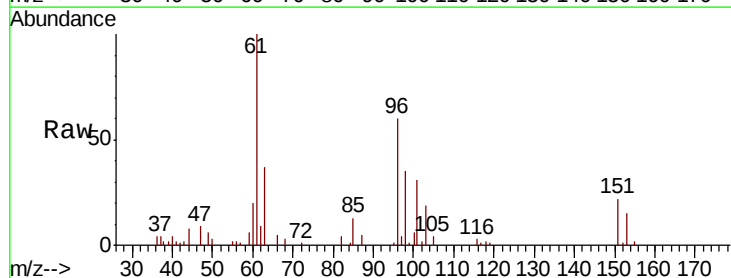
Tot Ion: 59 Resp: 4761
 Ion Ratio Lower Upper
 59 100
 57 12.1 9.0 13.6

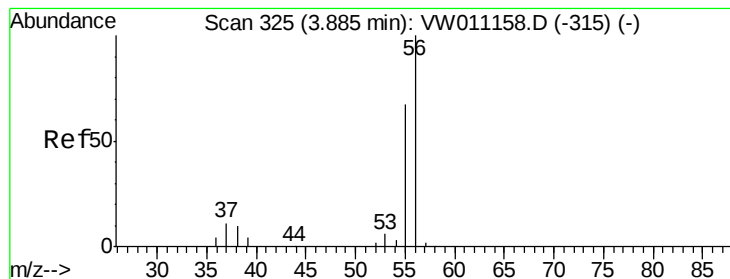


#12

1,1-Dichloroethene
 Concen: 3.939 ug/l
 RT: 4.03 min Scan# 349
 Delta R.T. -0.01 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Tgt Ion: 96 Resp: 10237
 Ion Ratio Lower Upper
 96 100
 61 165.4 157.7 236.5
 98 58.6 50.9 76.3





#13

Acrolein

Concen: 20.303 ug/l

RT: 3.89 min Scan# 325

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

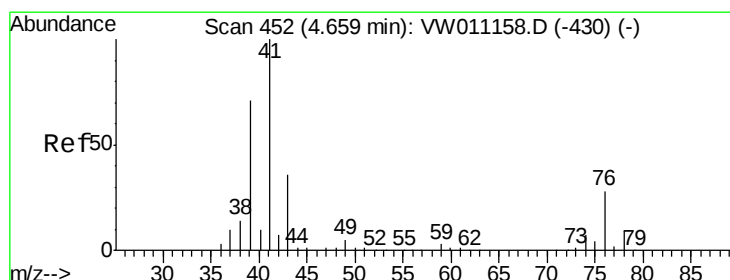
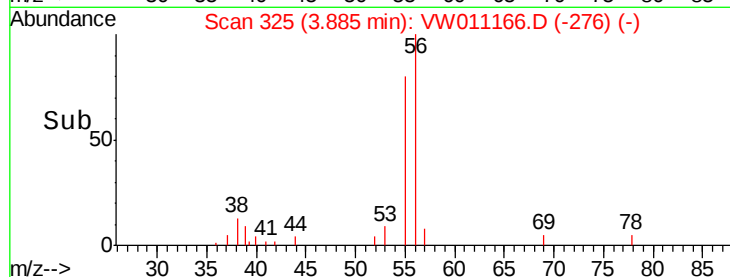
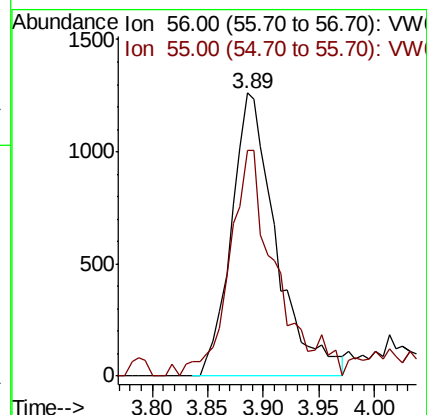
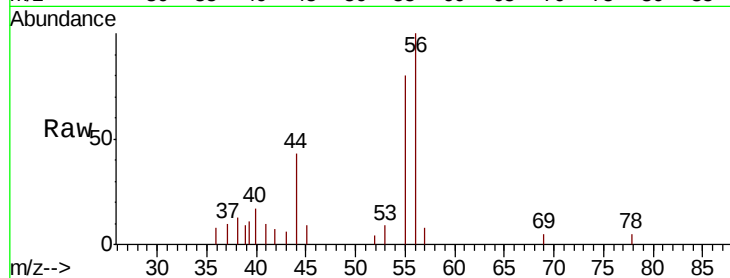
LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 56 Resp: 3519

Ion Ratio Lower Upper

56 100

55 79.1 56.4 84.6



#14

Allyl chloride

Concen: 3.495 ug/l

RT: 4.65 min Scan# 451

Delta R.T. -0.01 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

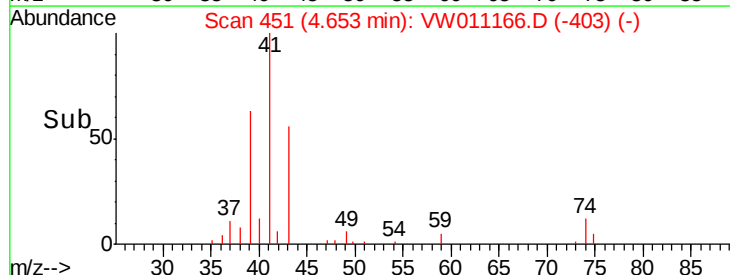
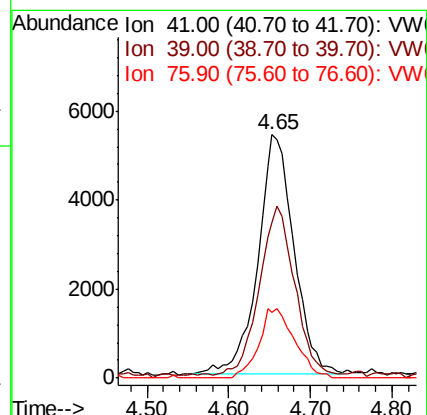
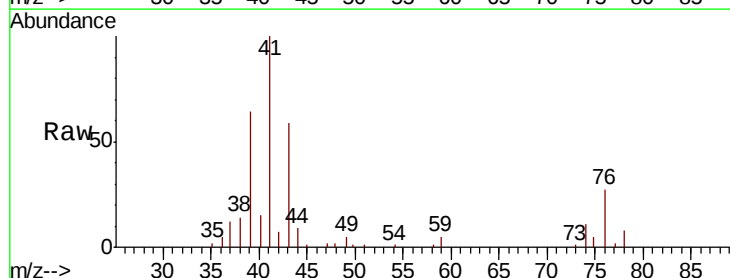
Tgt Ion: 41 Resp: 16566

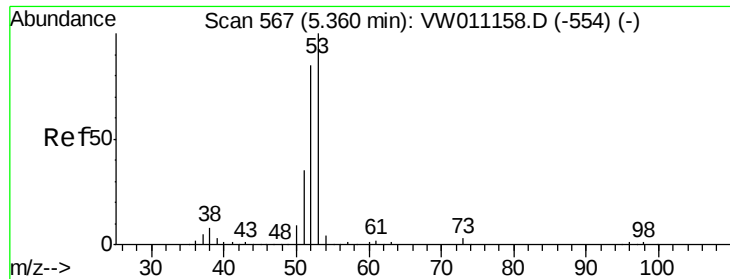
Ion Ratio Lower Upper

41 100

39 68.7 55.1 82.7

76 28.9 22.5 33.7





#15

Acrylonitrile

Concen: 19.498 ug/l

RT: 5.37 min Scan# 569

Delta R.T. 0.01 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

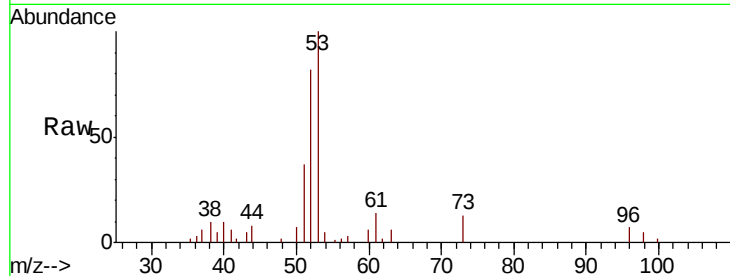
Tot Ion: 53 Resp: 14365

Ion Ratio Lower Upper

53 100

52 83.4 66.2 99.4

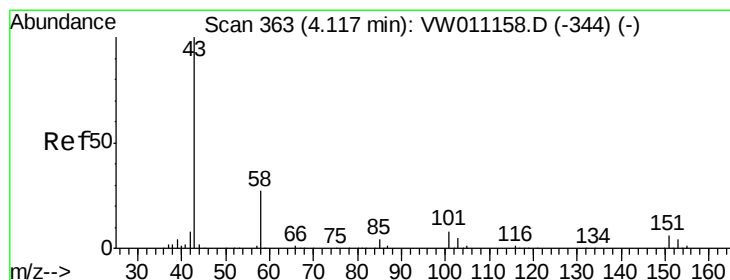
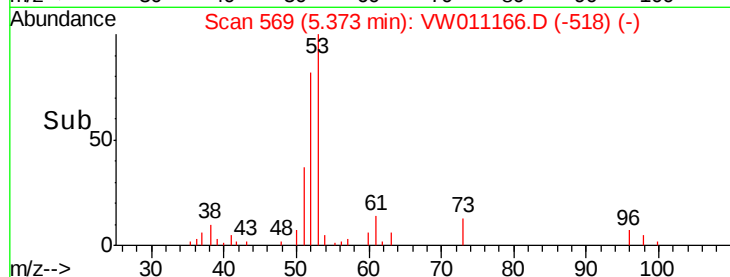
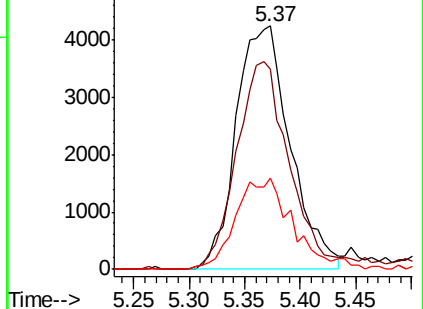
51 39.2 29.1 43.7



Abundance Ion 53.00 (52.70 to 53.70): VW

Ion 52.00 (51.70 to 52.70): VW

Ion 51.00 (50.70 to 51.70): VW



#16

Acetone

Concen: 20.331 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW011166.D

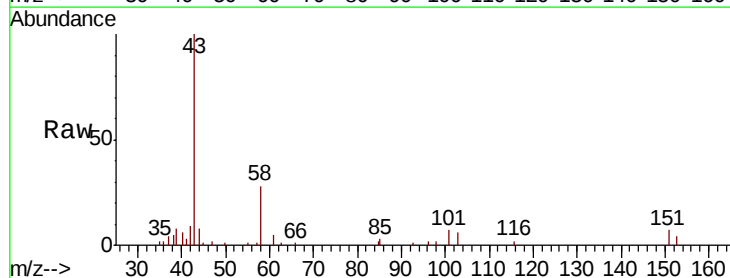
Acq: 08 Jul 2019 17:40

Tgt Ion: 43 Resp: 14382

Ion Ratio Lower Upper

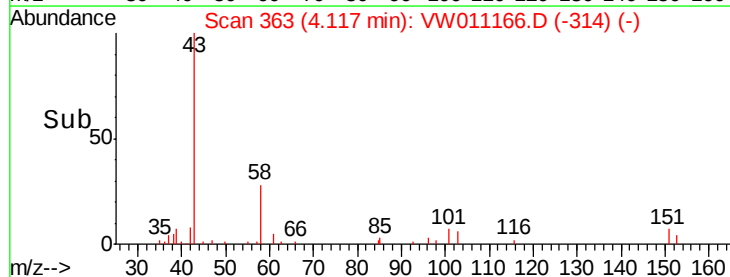
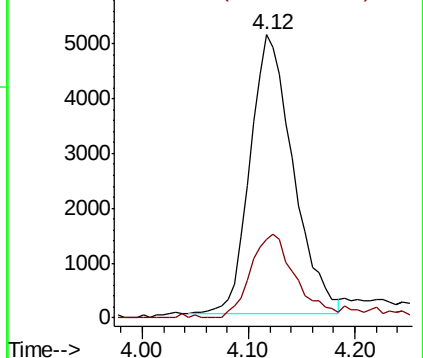
43 100

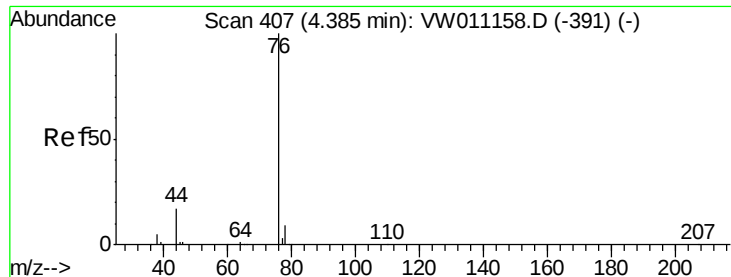
58 28.4 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

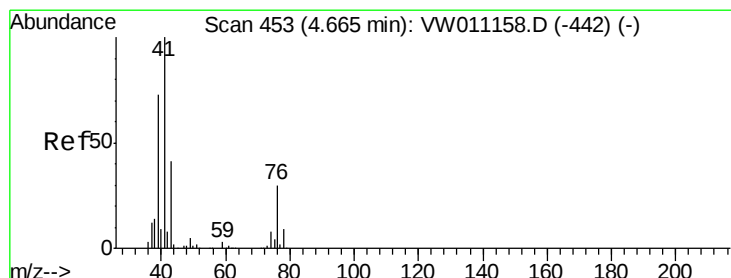
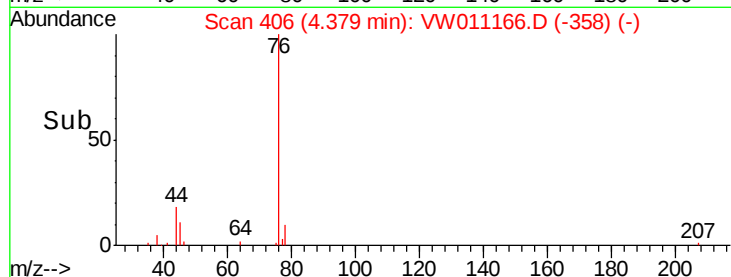
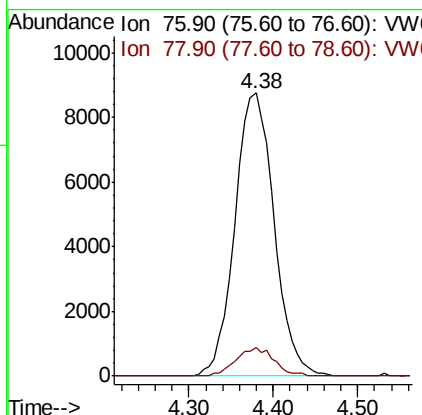
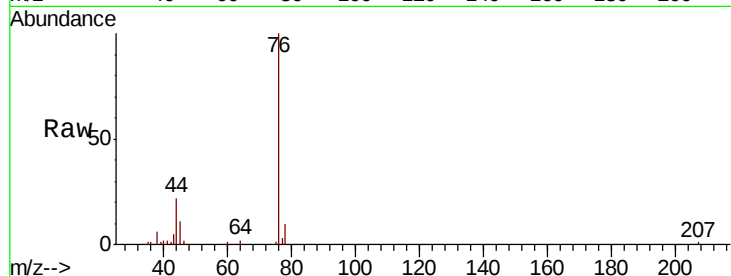




#17
Carbon Disulfide
Concen: 3.506 ug/l
RT: 4.38 min Scan# 406
Delta R.T. -0.01 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

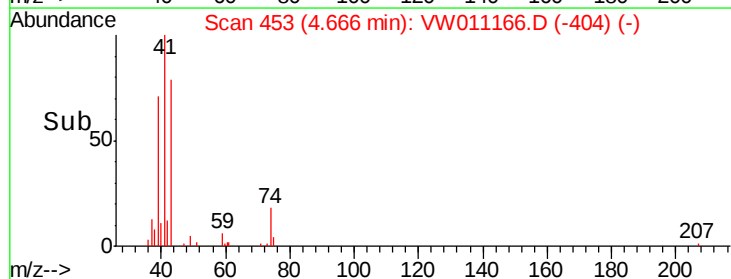
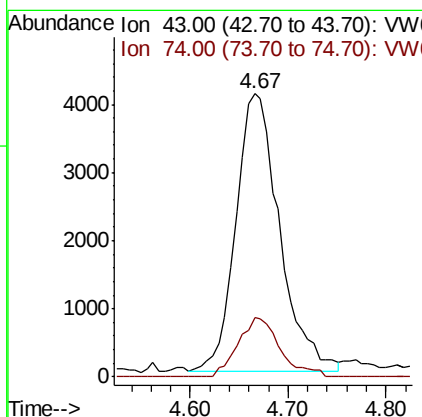
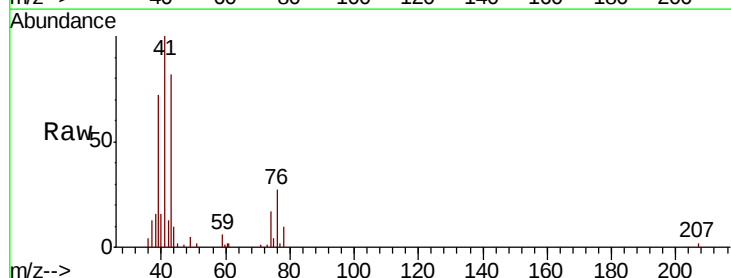
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

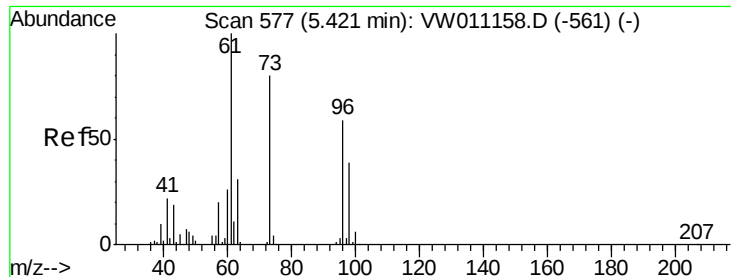
Tot Ion: 76 Resp: 27627
Ion Ratio Lower Upper
76 100
78 9.9 7.1 10.7



#18
Methyl Acetate
Concen: 4.989 ug/l
RT: 4.67 min Scan# 453
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion: 43 Resp: 12595
Ion Ratio Lower Upper
43 100
74 20.5 15.7 23.5



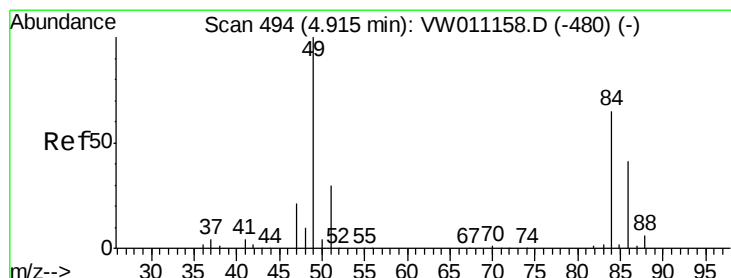
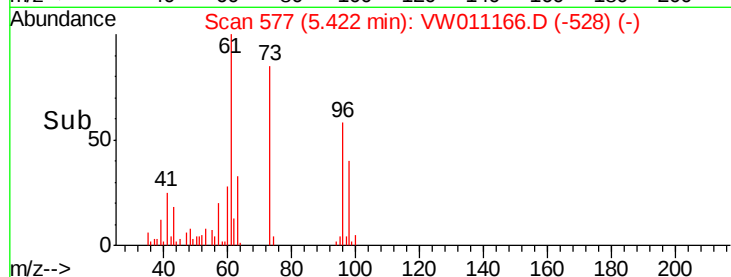
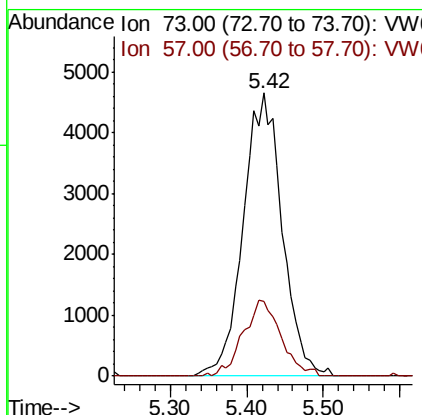
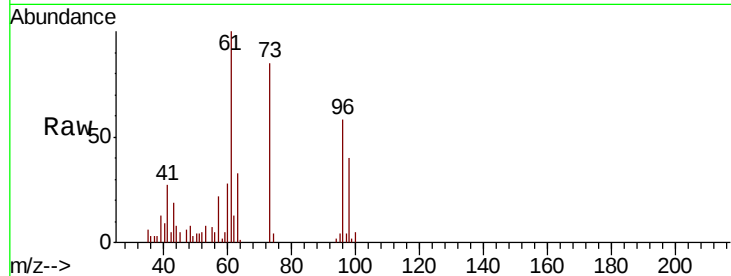


#19

Methyl tert-butyl Ether
 Concen: 4.185 ug/l
 RT: 5.42 min Scan# 577
 Delta R.T. 0.00 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

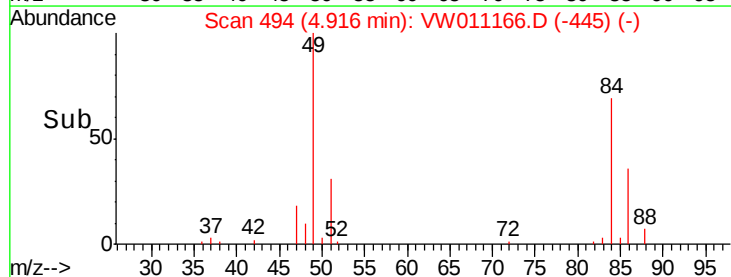
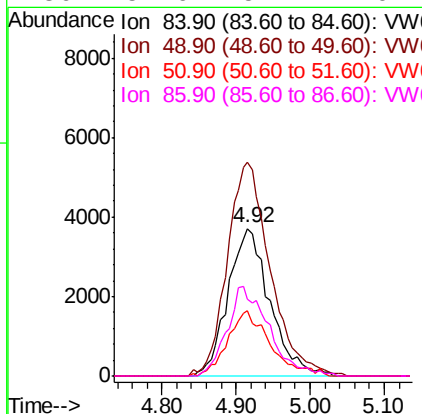
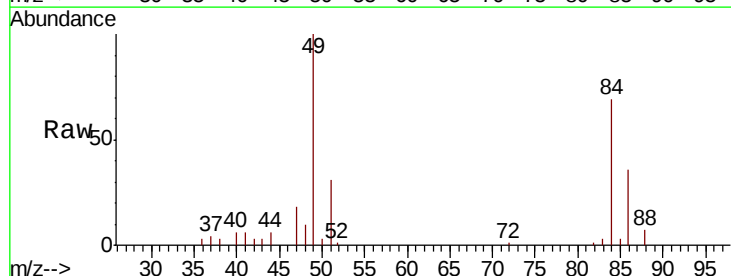
Tot Ion: 73 Resp: 16503
 Ion Ratio Lower Upper
 73 100
 57 26.2 19.7 29.5

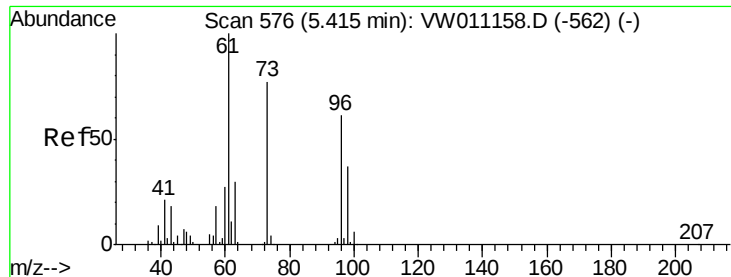


#20

Methylene Chloride
 Concen: 5.206 ug/l
 RT: 4.92 min Scan# 494
 Delta R.T. 0.00 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Tgt Ion: 84 Resp: 14527
 Ion Ratio Lower Upper
 84 100
 49 145.1 123.8 185.6
 51 44.3 37.4 56.2
 86 52.6 51.1 76.7





#21

trans-1,2-Dichloroethene

Concen: 4.015 ug/l

RT: 5.42 min Scan# 576

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

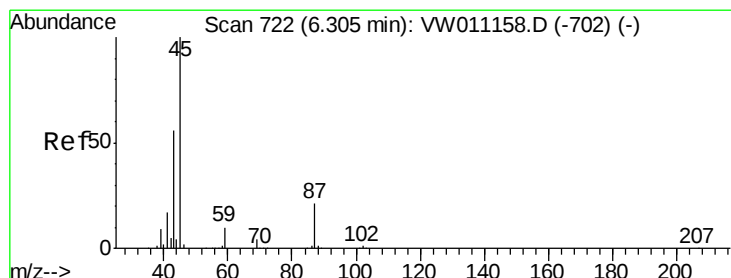
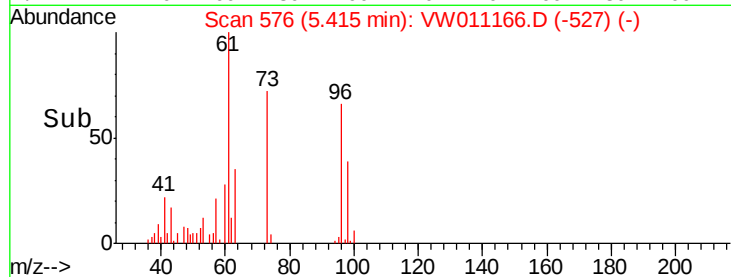
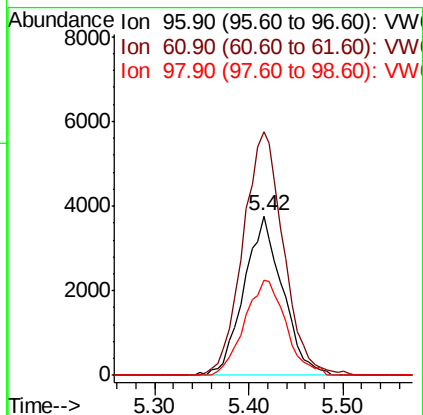
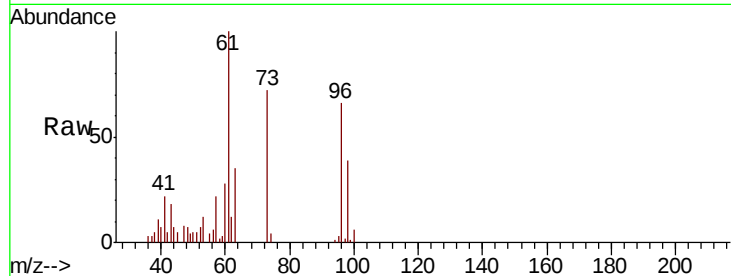
Tot Ion: 96 Resp: 10843

Ion Ratio Lower Upper

96 100

61 152.5 132.2 198.2

98 59.6 49.4 74.0



#22

Diisopropyl ether

Concen: 3.912 ug/l

RT: 6.31 min Scan# 722

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Tgt Ion: 45 Resp: 39877

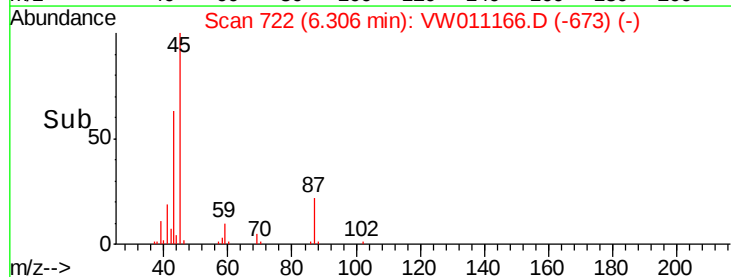
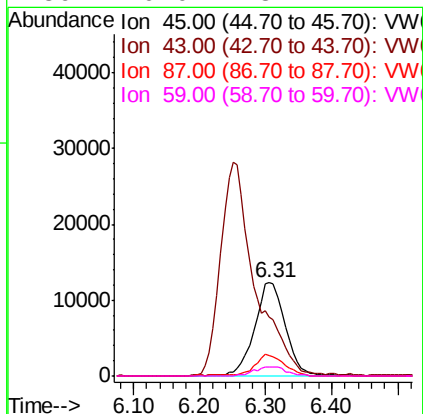
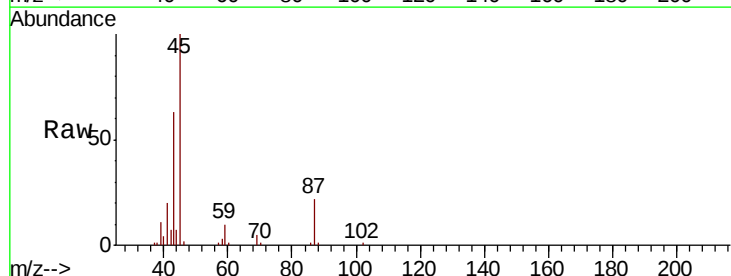
Ion Ratio Lower Upper

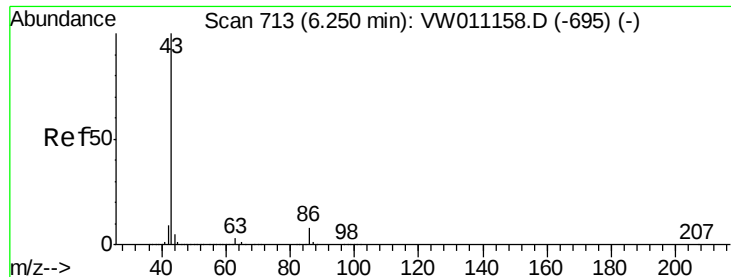
45 100

43 62.7 44.6 66.8

87 22.3 17.3 25.9

59 10.0 8.2 12.2





#23

Vinyl Acetate

Concen: 16.152 ug/l

RT: 6.25 min Scan# 713

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

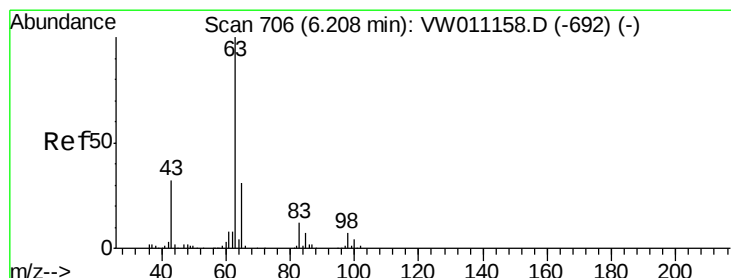
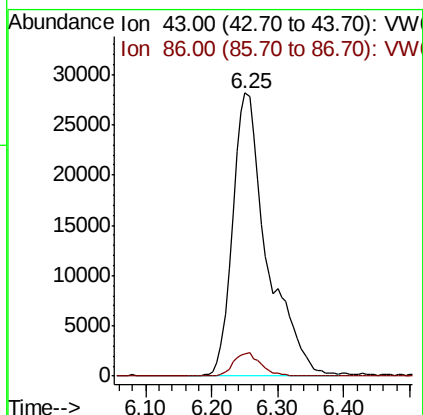
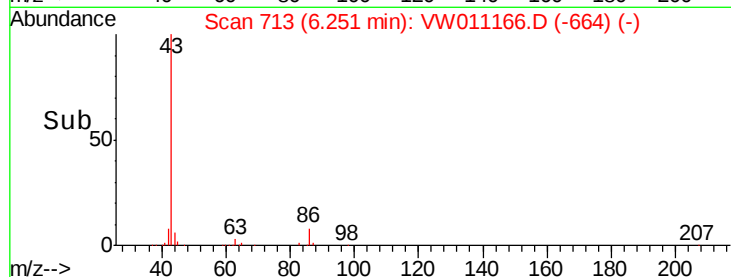
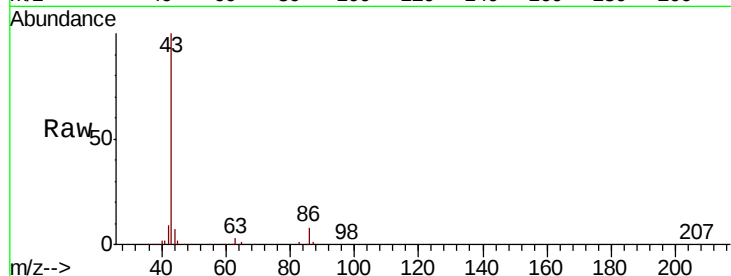
LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 43 Resp: 101902

Ion Ratio Lower Upper

43 100

86 8.0 6.5 9.7



#24

1,1-Dichloroethane

Concen: 3.978 ug/l

RT: 6.21 min Scan# 707

Delta R.T. 0.01 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

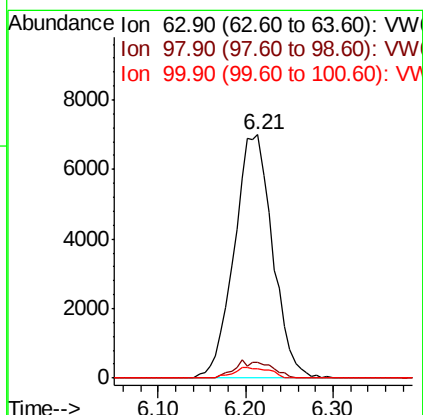
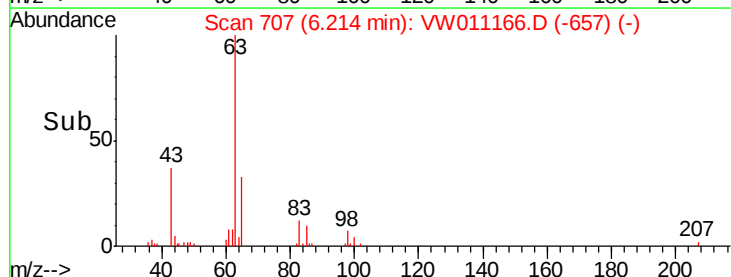
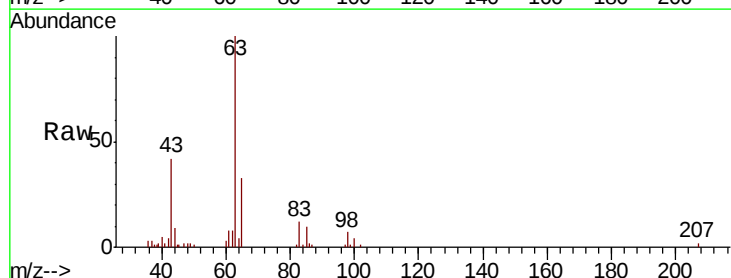
Tgt Ion: 63 Resp: 21297

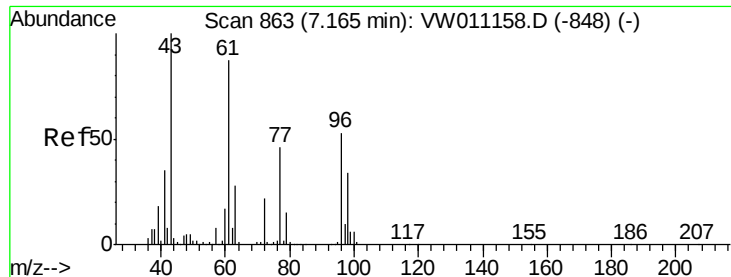
Ion Ratio Lower Upper

63 100

98 6.6 3.3 9.9

100 4.1 2.1 6.2





#25

2-Butanone

Concen: 19.719 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

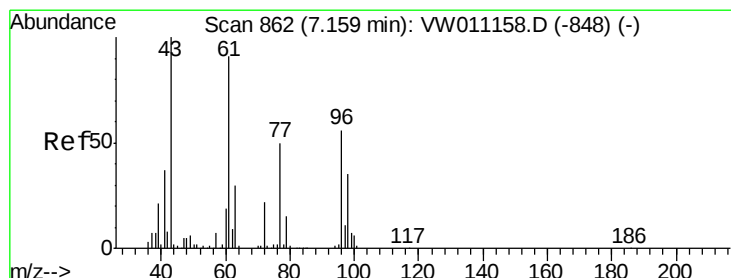
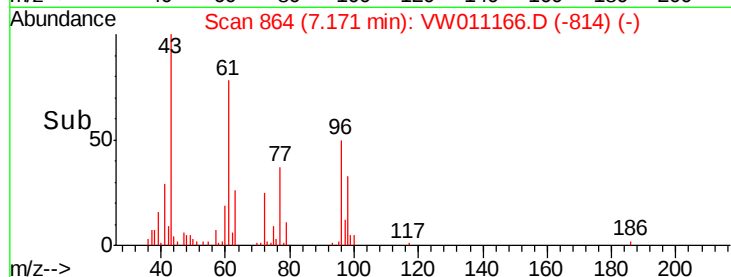
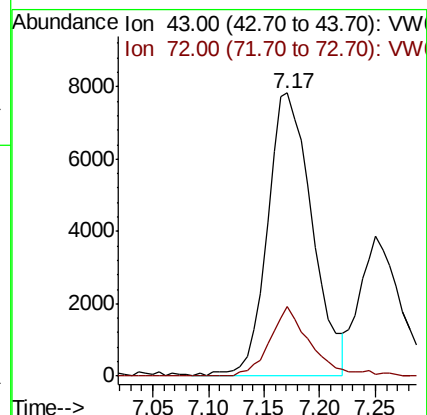
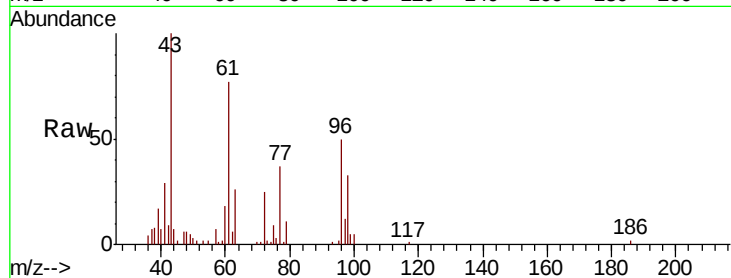
LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 43 Resp: 21896

Ion Ratio Lower Upper

43 100

72 24.5 17.6 26.4



#26

2,2-Dichloropropane

Concen: 3.728 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.01 min

Lab File: VW011166.D

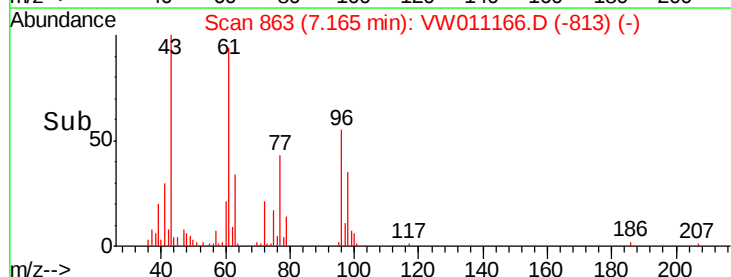
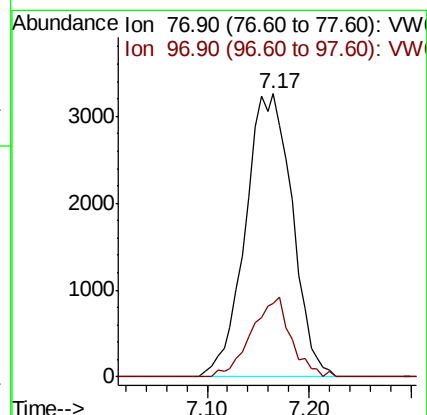
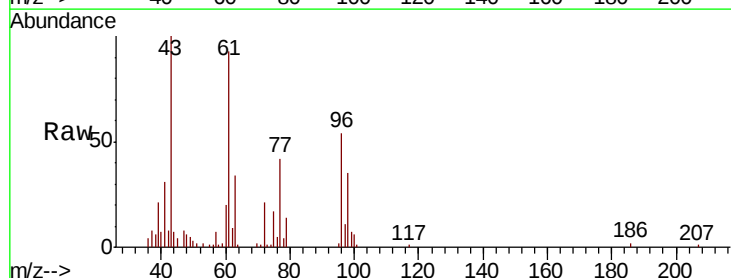
Acq: 08 Jul 2019 17:40

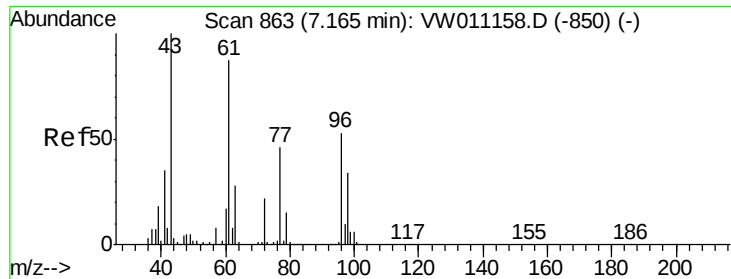
Tgt Ion: 77 Resp: 10375

Ion Ratio Lower Upper

77 100

97 23.7 11.2 33.5



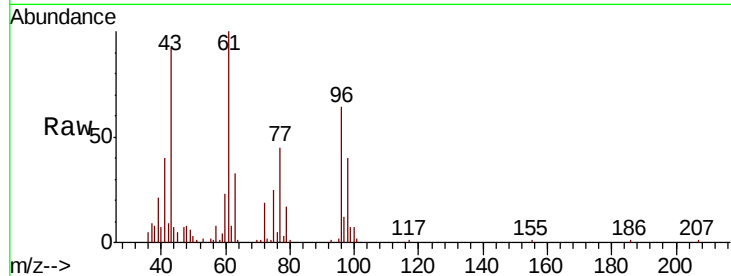


#27

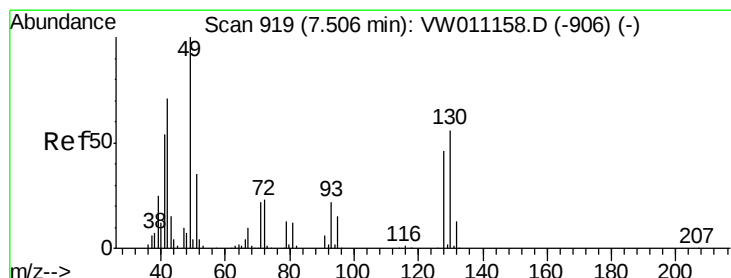
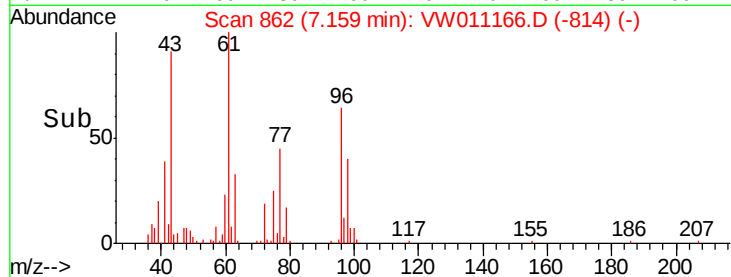
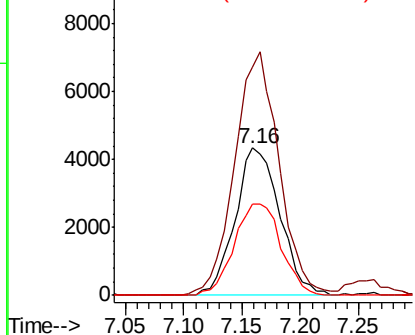
cis-1,2-Dichloroethene
Concen: 3.967 ug/l
RT: 7.16 min Scan# 862
Delta R.T. -0.01 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 96 Resp: 11556
Ion Ratio Lower Upper
96 100
61 164.5 0.0 325.6
98 65.2 0.0 128.2



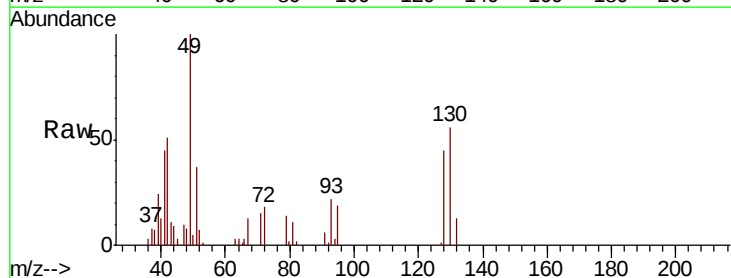
Abundance Ion 95.90 (95.60 to 96.60): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 97.90 (97.60 to 98.60): VW



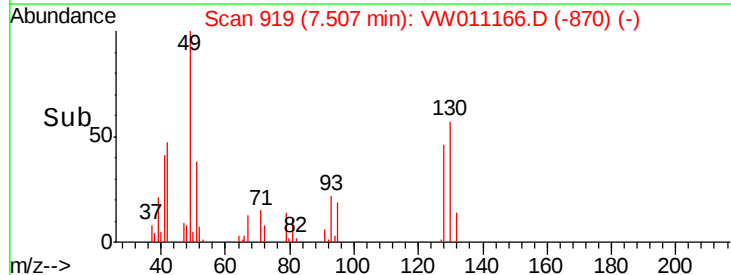
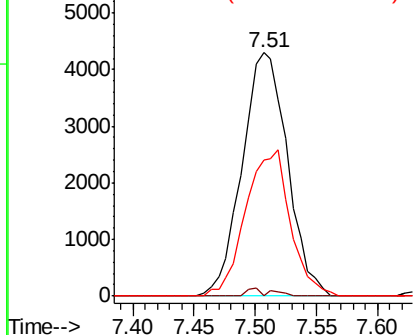
#28

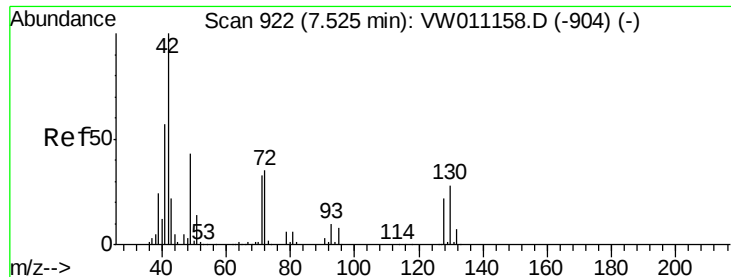
Bromochloromethane
Concen: 4.549 ug/l
RT: 7.51 min Scan# 919
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion: 49 Resp: 11073
Ion Ratio Lower Upper
49 100
129 0.8 0.0 1.4
130 58.8 45.8 68.8



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

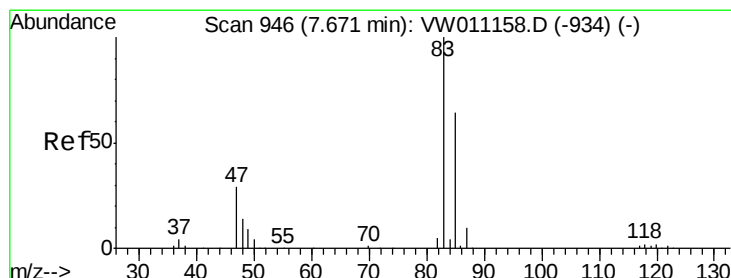
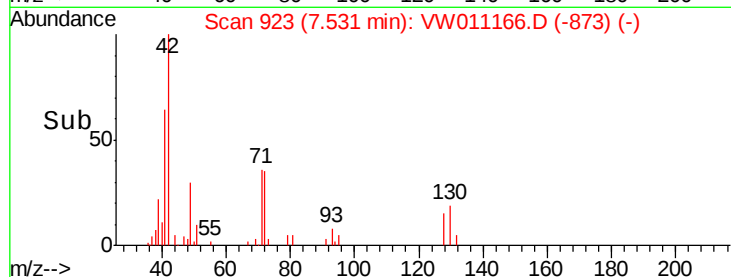
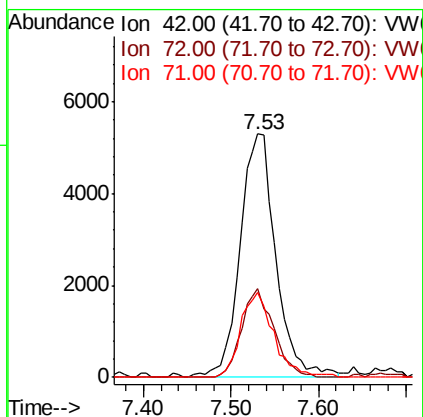
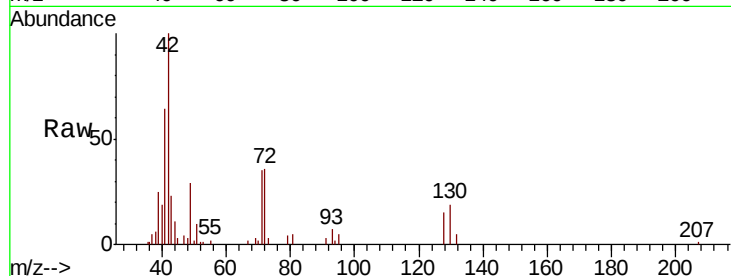




#29
Tetrahydrofuran
Concen: 20.626 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.01 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

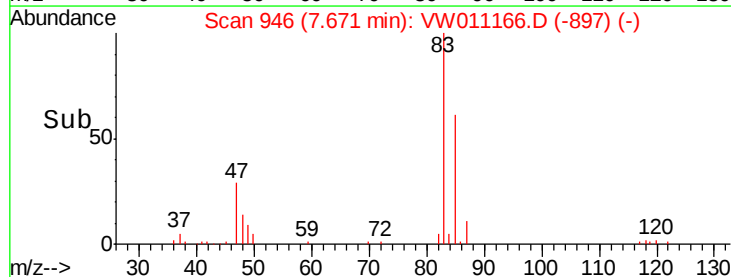
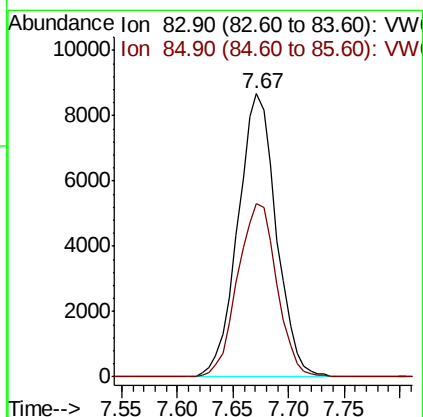
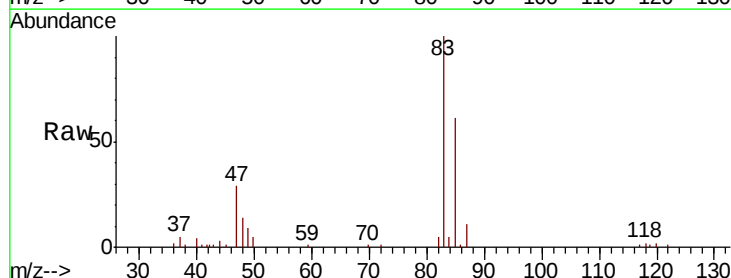
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

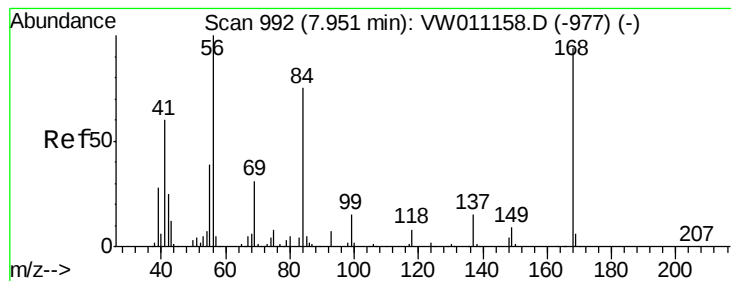
Tot Ion: 42 Resp: 15018
Ion Ratio Lower Upper
42 100
72 32.8 27.4 41.2
71 32.6 25.9 38.9



#30
Chloroform
Concen: 4.183 ug/l
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion: 83 Resp: 20735
Ion Ratio Lower Upper
83 100
85 61.4 51.4 77.2





#31

Cyclohexane

Concen: 4.728 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

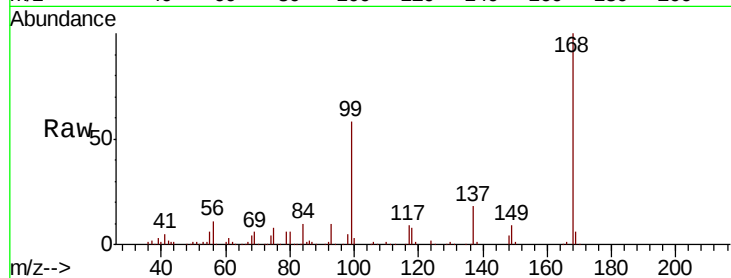
Tot Ion: 56 Resp: 26927

Ion Ratio Lower Upper

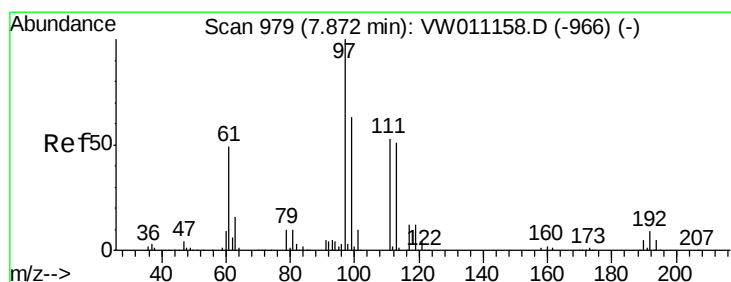
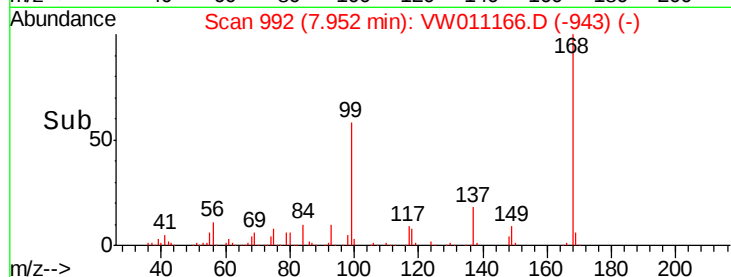
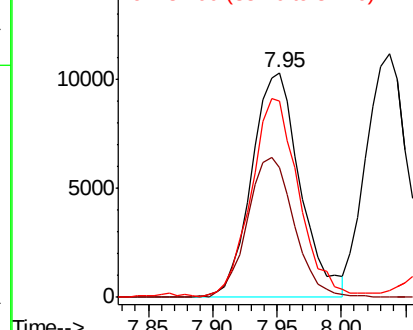
56 100

69 57.4 24.6 36.8#

84 86.2 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: 3.808 ug/l

RT: 7.87 min Scan# 979

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

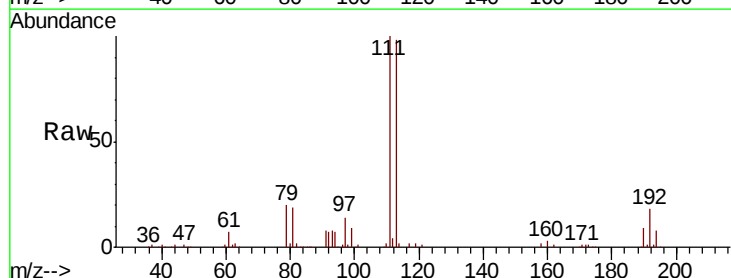
Tgt Ion: 97 Resp: 14361

Ion Ratio Lower Upper

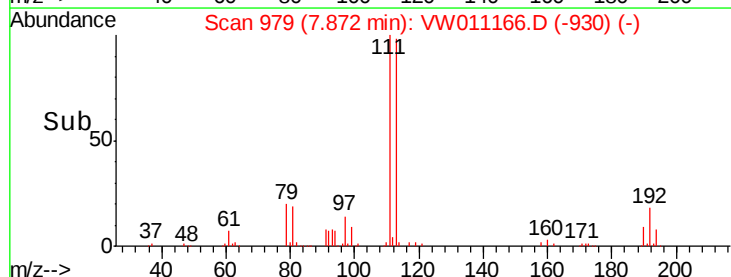
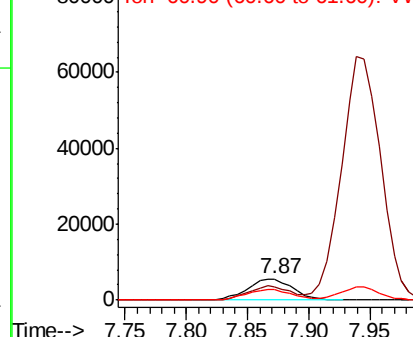
97 100

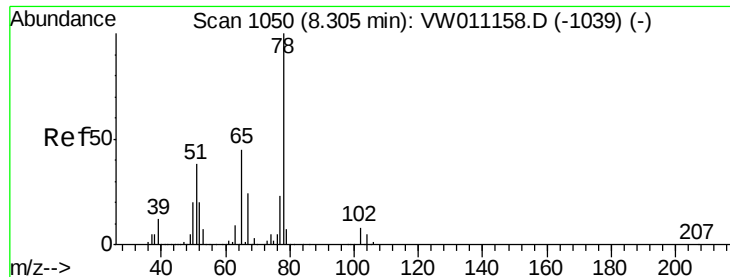
99 62.6 51.0 76.4

61 53.4 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

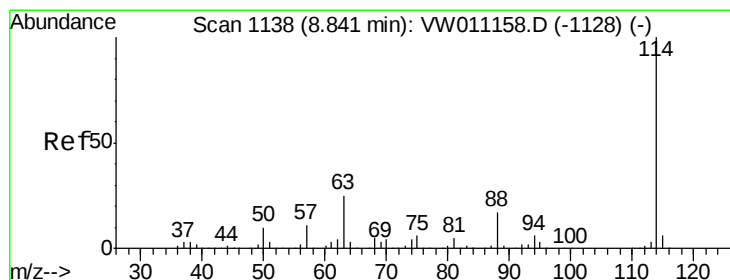
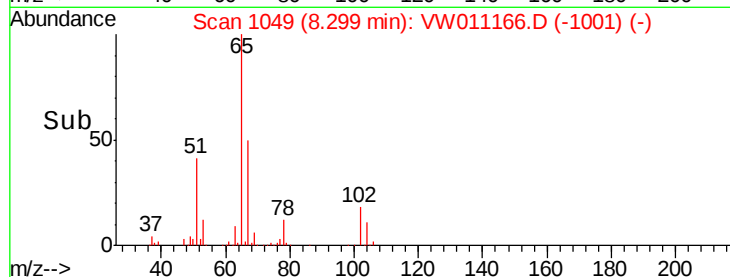
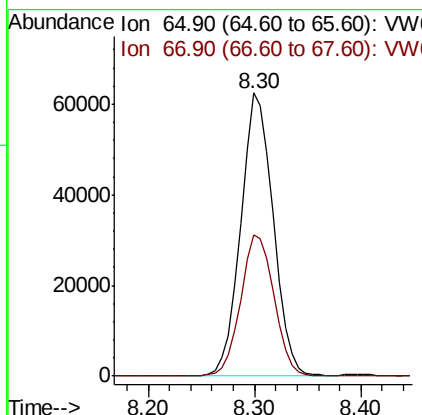
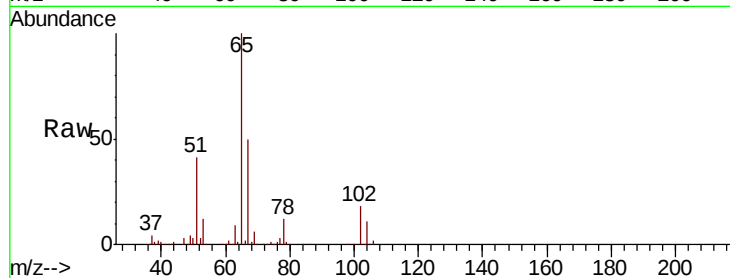




#33
 1,2-Dichloroethane-d4
 Concen: 45.632 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

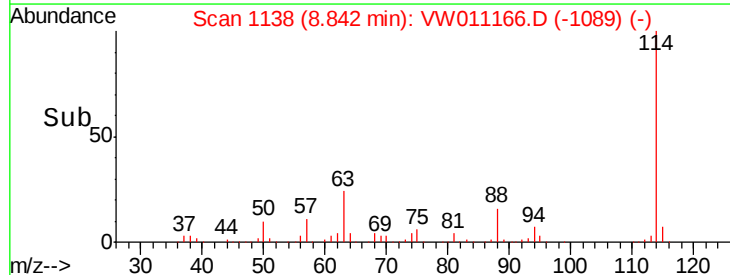
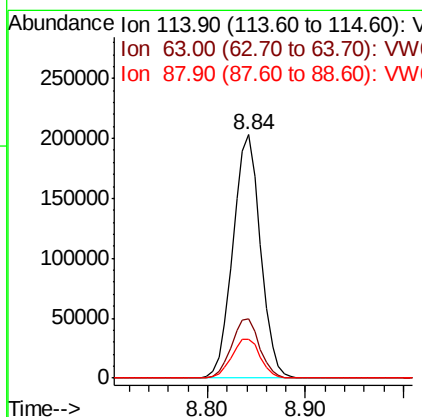
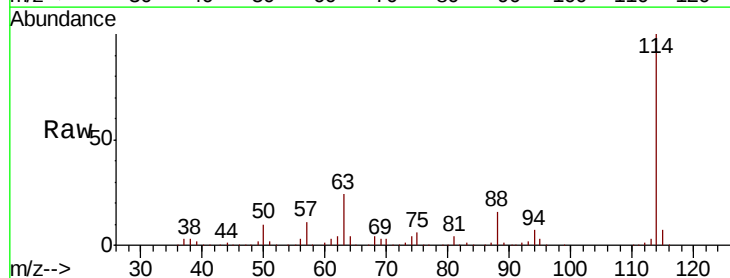
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

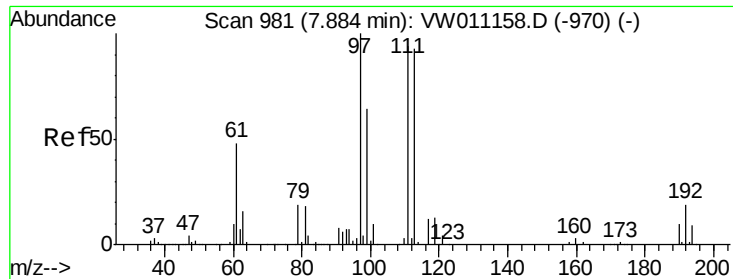
Tot Ion: 65 Resp: 134154
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Tgt Ion: 114 Resp: 396673
 Ion Ratio Lower Upper
 114 100
 63 24.5 0.0 50.8
 88 16.2 0.0 34.2





#35

Dibromofluoromethane

Concen: 43.630 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

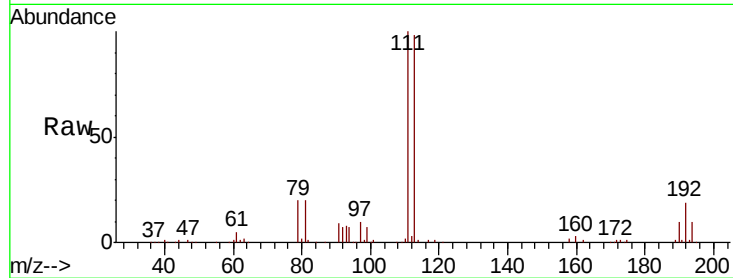
Tot Ion:113 Resp: 103157

Ion Ratio Lower Upper

113 100

111 103.1 82.4 123.6

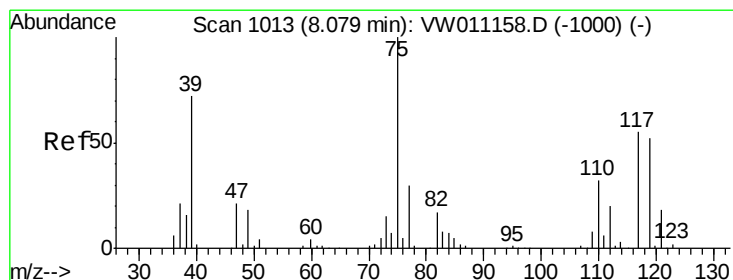
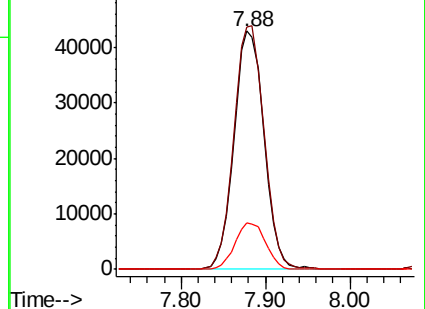
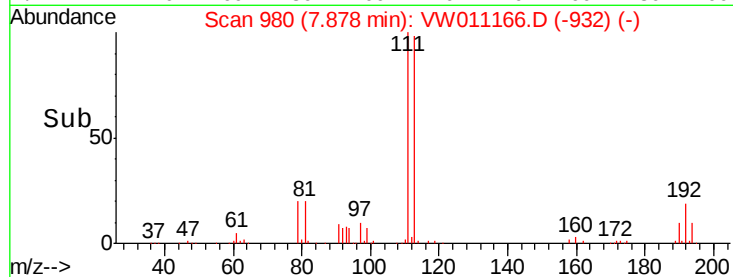
192 19.9 15.8 23.8



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: 3.922 ug/l

RT: 8.07 min Scan# 1012

Delta R.T. -0.01 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

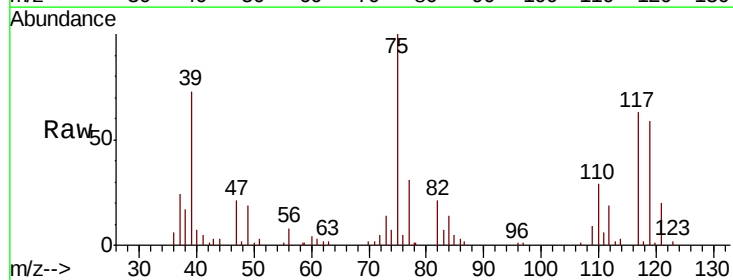
Tgt Ion: 75 Resp: 16566

Ion Ratio Lower Upper

75 100

110 30.9 15.9 47.6

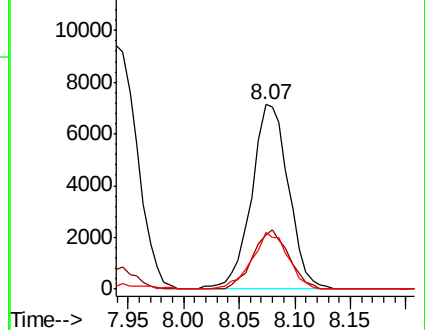
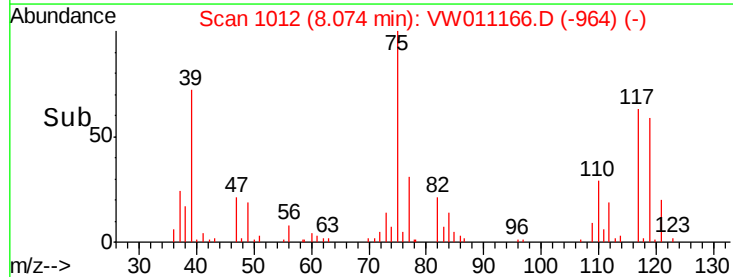
77 30.0 24.6 36.8

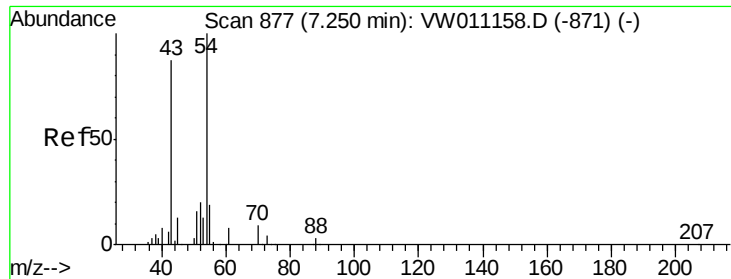


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

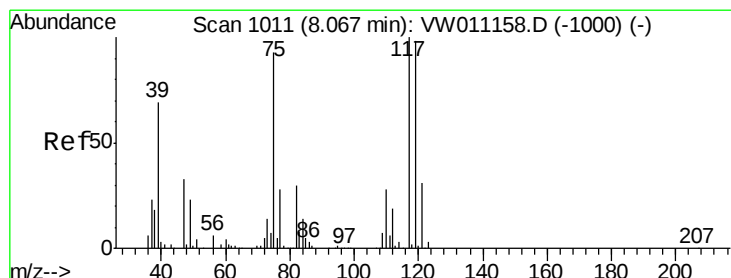
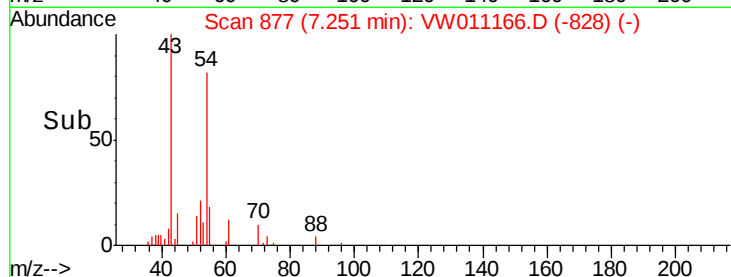
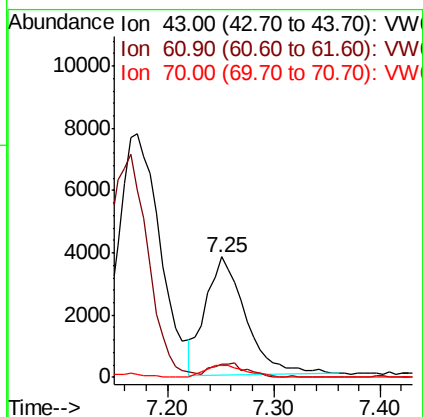
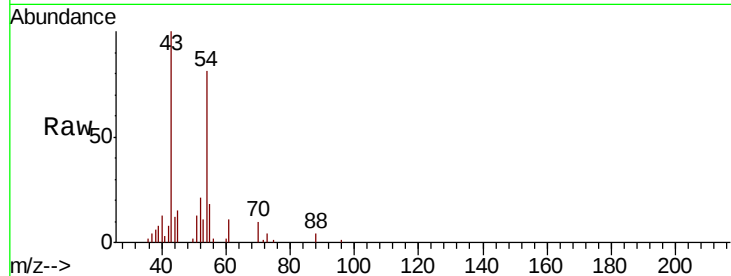




#37
Ethyl Acetate
Concen: 3.928 ug/l
RT: 7.25 min Scan# 877
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

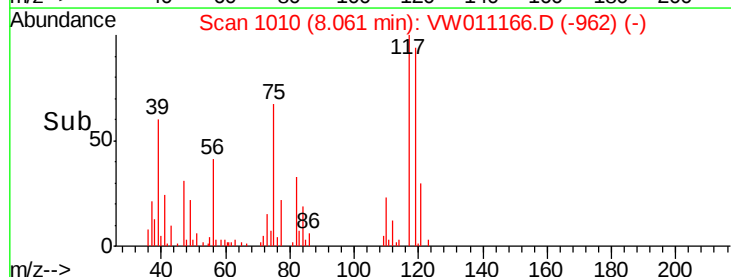
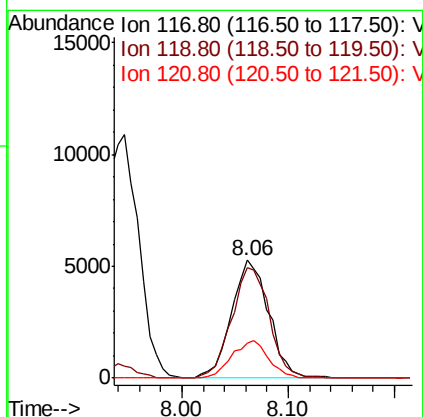
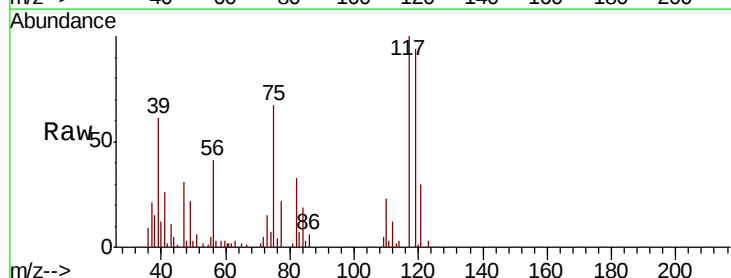
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 43 Resp: 9970
Ion Ratio Lower Upper
43 100
61 10.5 9.5 14.3
70 10.3 7.1 10.7



#38
Carbon Tetrachloride
Concen: 3.621 ug/l
RT: 8.06 min Scan# 1010
Delta R.T. -0.01 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion: 117 Resp: 12965
Ion Ratio Lower Upper
117 100
119 93.7 78.1 117.1
121 29.9 25.1 37.7

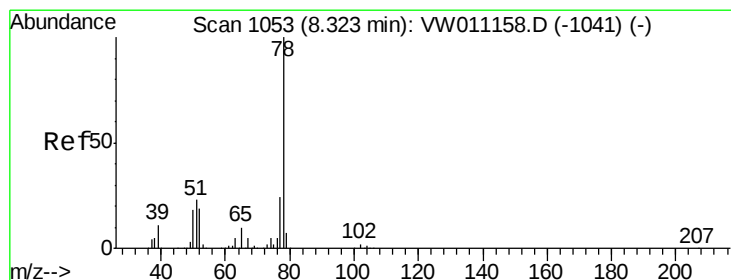
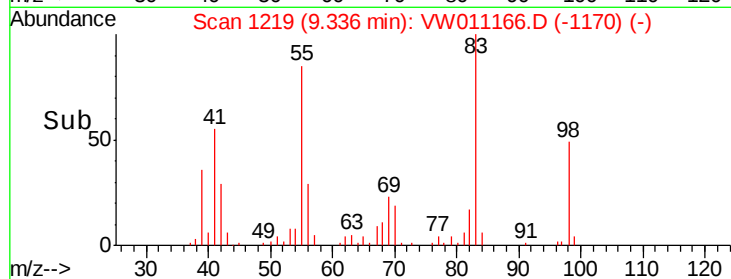
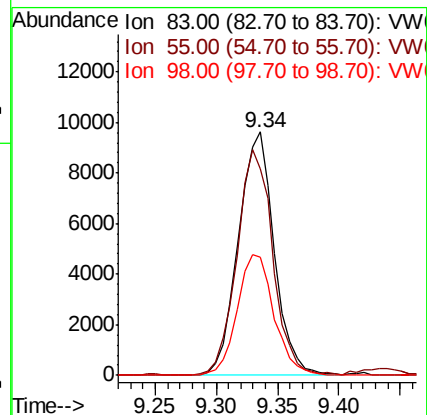
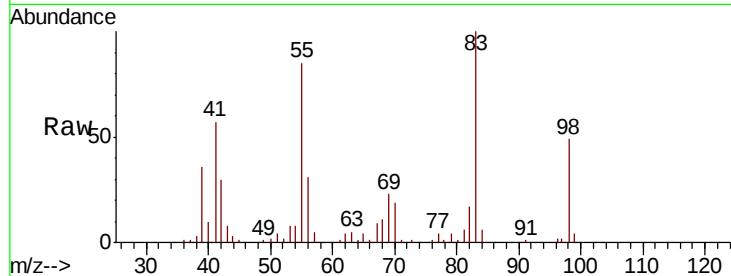




#39
Methvlcvclohexane
Concen: 3.810 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

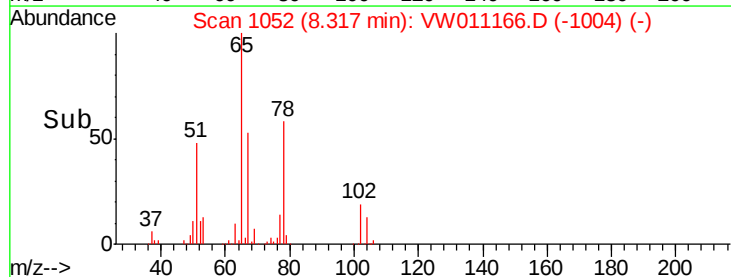
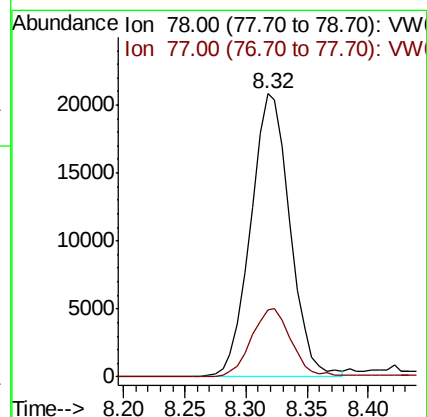
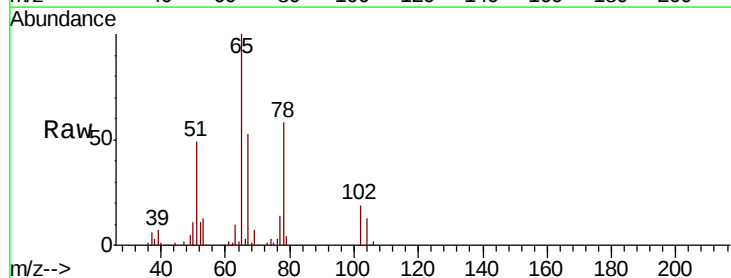
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

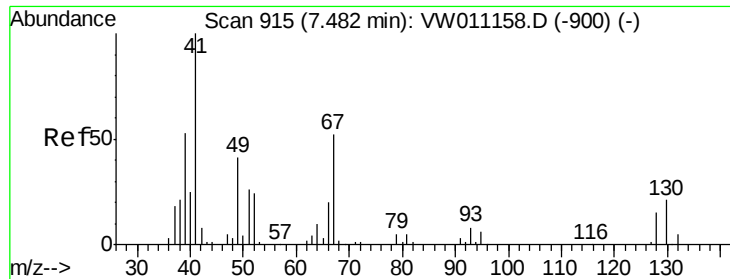
Tot Ion: 83 Resp: 19509
Ion Ratio Lower Upper
83 100
55 85.1 71.2 106.8
98 48.6 37.5 56.3



#40
Benzene
Concen: 3.991 ug/l
RT: 8.32 min Scan# 1052
Delta R.T. -0.01 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion: 78 Resp: 46594
Ion Ratio Lower Upper
78 100
77 23.8 19.0 28.6

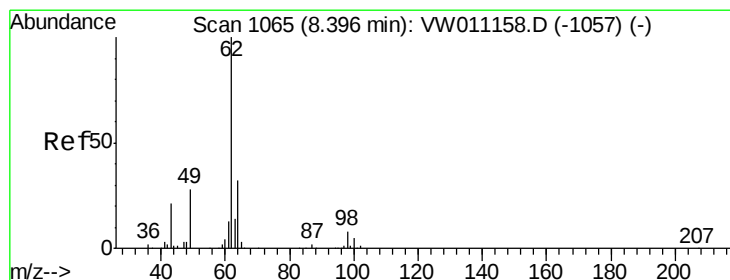
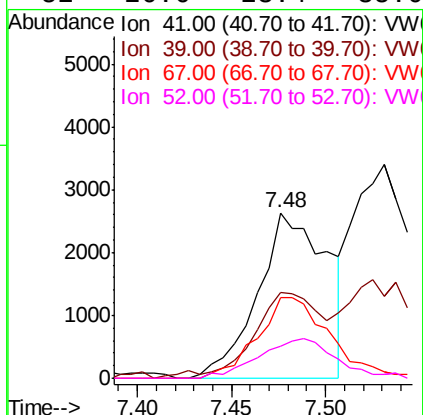
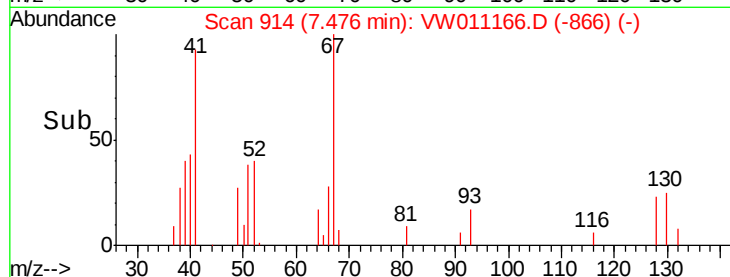
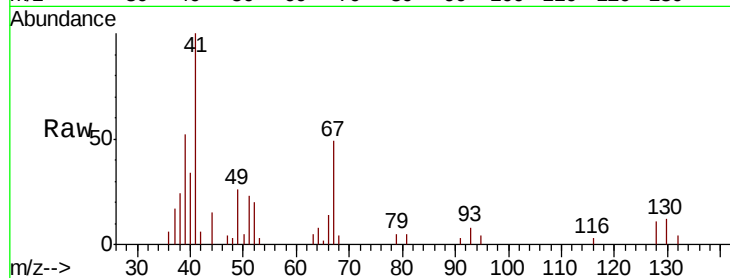




#41
Methacrylonitrile
Concen: 4.640 ug/l
RT: 7.48 min Scan# 914
Delta R.T. -0.01 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

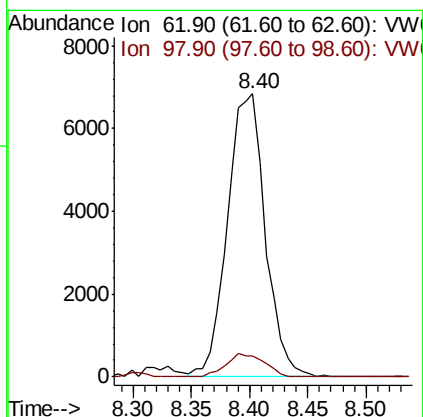
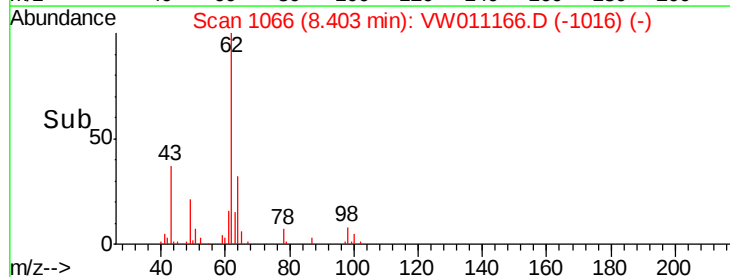
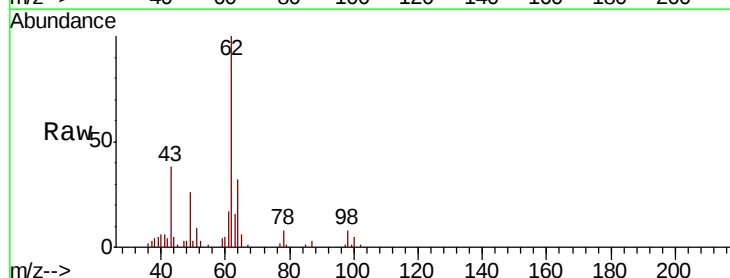
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

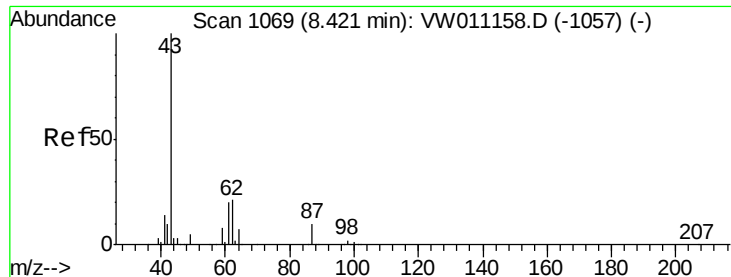
Tot Ion:	41	Resp:	6736
Ion	Ratio	Lower	Upper
41	100		
39	49.8	48.0	72.0
67	50.5	49.7	74.5
52	26.6	23.4	35.0



#42
1,2-Dichloroethane
Concen: 4.084 ug/l
RT: 8.40 min Scan# 1066
Delta R.T. 0.01 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion:	62	Resp:	15466
Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	16.8





#43

Isopropyl Acetate

Concen: 3.869 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

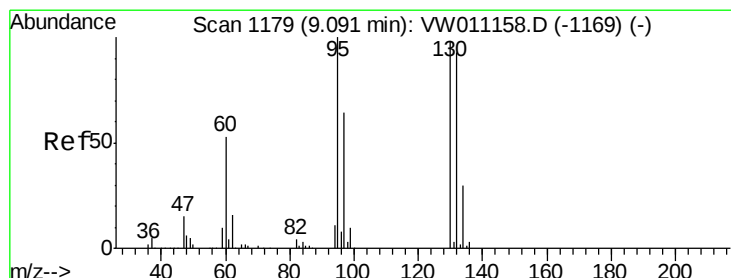
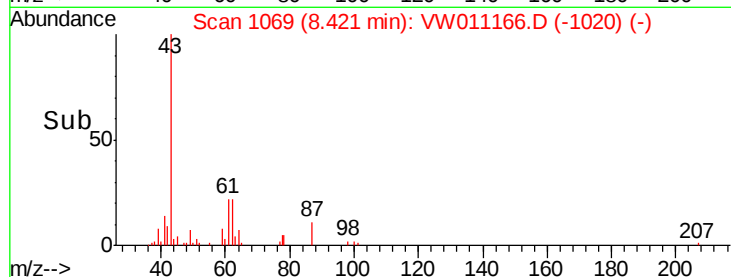
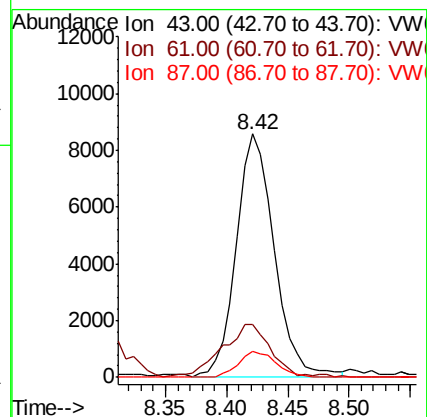
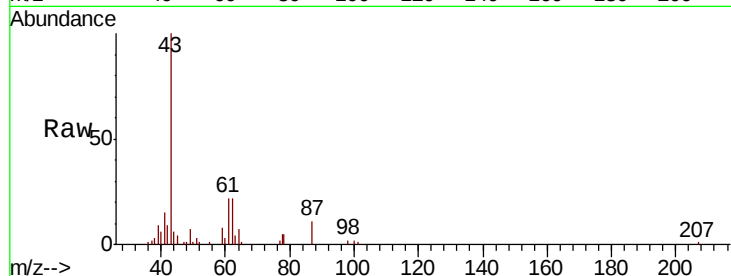
Tot Ion: 43 Resp: 18539

Ion Ratio Lower Upper

43 100

61 27.7 20.7 31.1

87 10.5 8.1 12.1



#44

Trichloroethene

Concen: 3.831 ug/l

RT: 9.09 min Scan# 1178

Delta R.T. -0.01 min

Lab File: VW011166.D

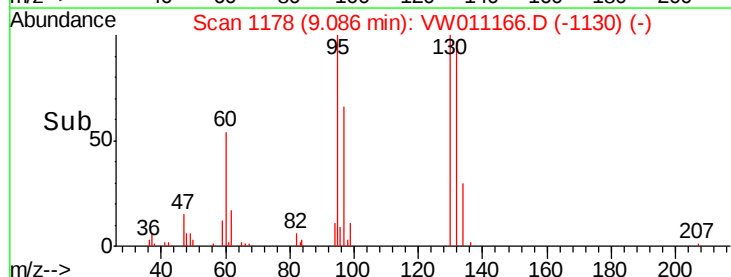
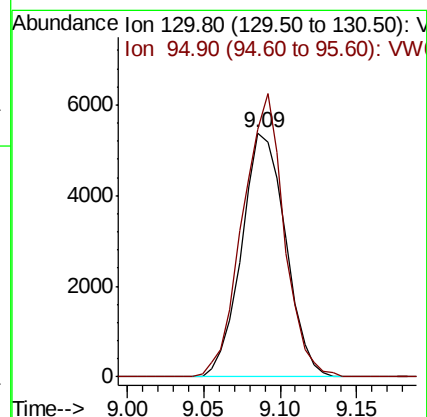
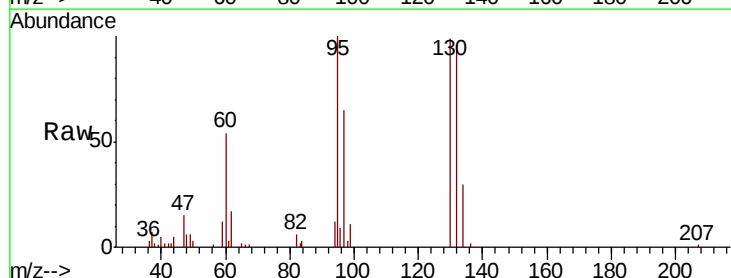
Acq: 08 Jul 2019 17:40

Tgt Ion: 130 Resp: 10762

Ion Ratio Lower Upper

130 100

95 101.2 0.0 203.6





#45

1,2-Dichloropropane

Concen: 3.827 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

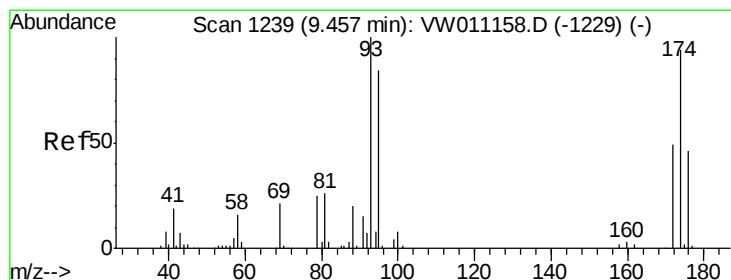
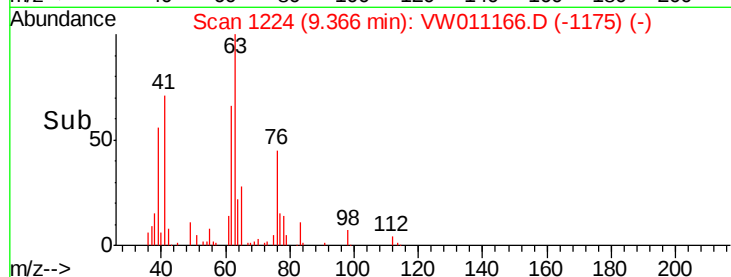
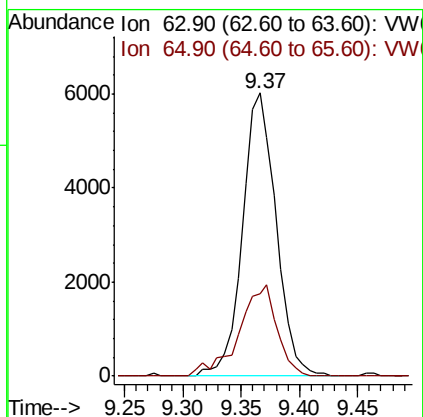
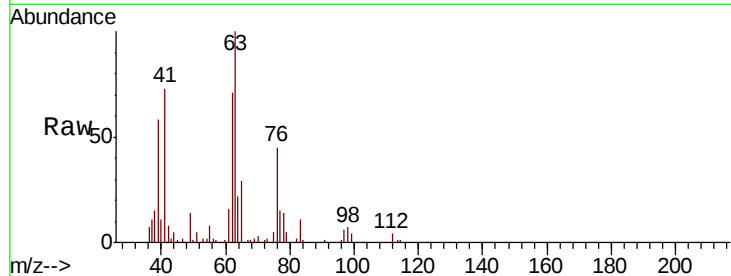
LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 63 Resp: 12099

Ion Ratio Lower Upper

63 100

65 29.2 24.4 36.6



#46

Dibromomethane

Concen: 3.870 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

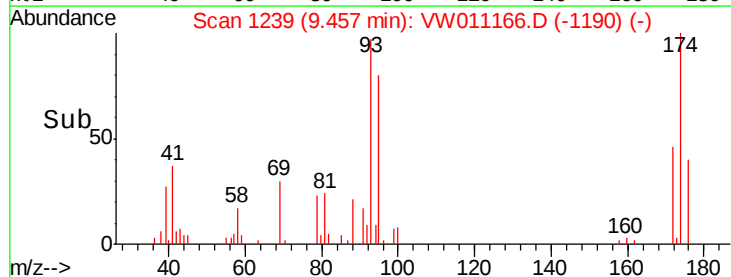
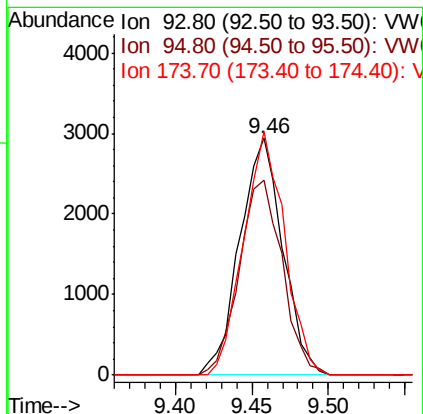
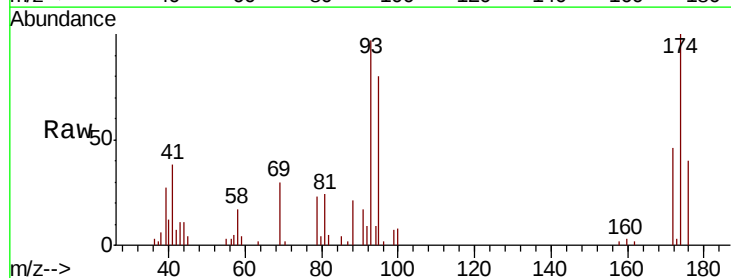
Tgt Ion: 93 Resp: 5747

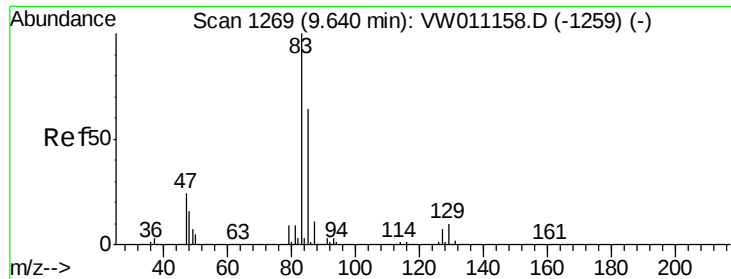
Ion Ratio Lower Upper

93 100

95 82.1 67.2 100.8

174 97.8 76.3 114.5

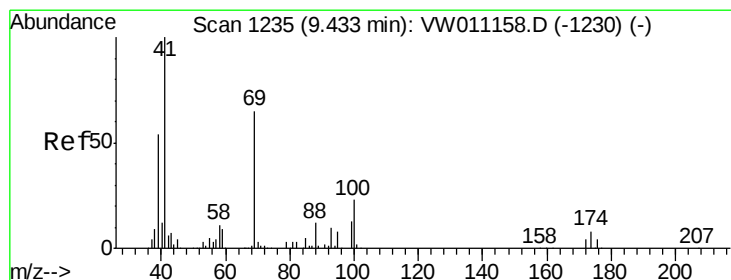
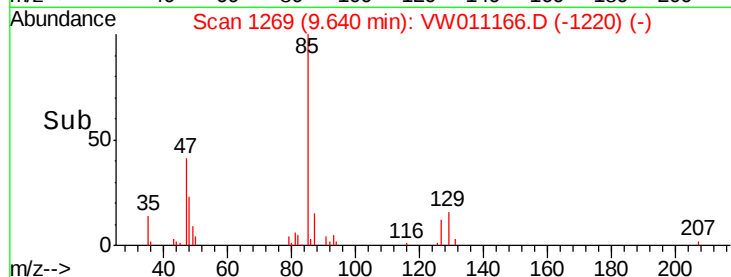
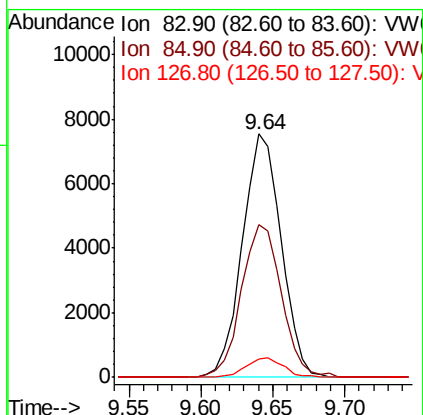
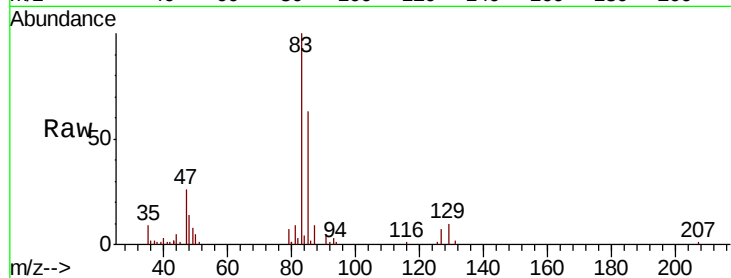




#47
Bromodichloromethane
Concen: 3.706 ug/l
RT: 9.64 min Scan# 1269
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

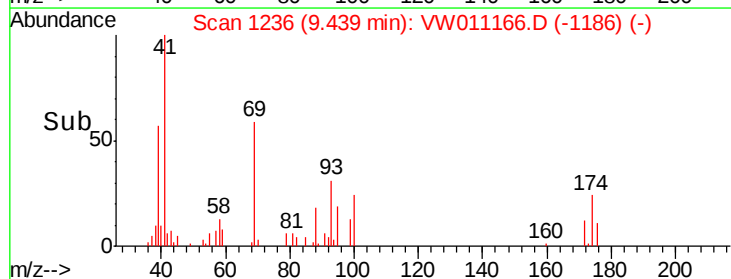
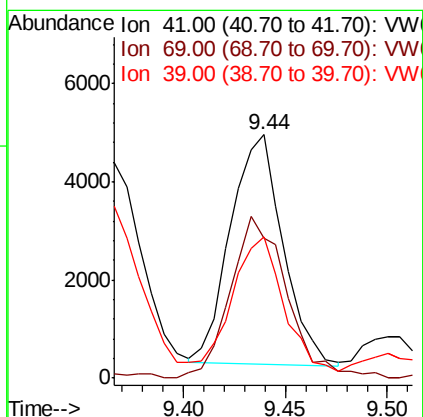
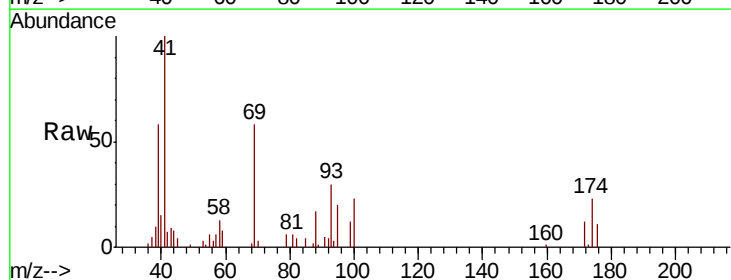
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

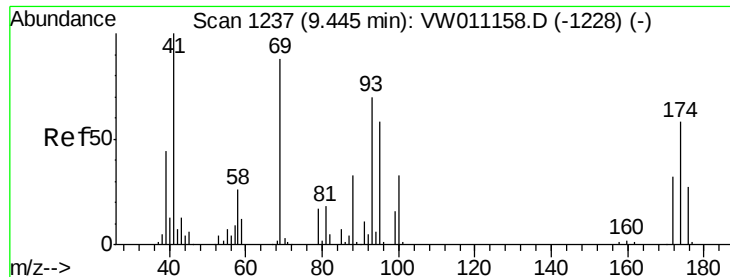
Tot Ion: 83 Resp: 14080
Ion Ratio Lower Upper
83 100
85 62.9 51.0 76.4
127 7.4 6.0 9.0



#48
Methyl methacrylate
Concen: 3.611 ug/l
RT: 9.44 min Scan# 1236
Delta R.T. 0.01 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion: 41 Resp: 8324
Ion Ratio Lower Upper
41 100
69 76.2 56.0 84.0
39 56.9 43.5 65.3





#49

1,4-Dioxane

Concen: 69.148 ug/l

RT: 9.44 min Scan# 1236

Delta R.T. -0.01 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

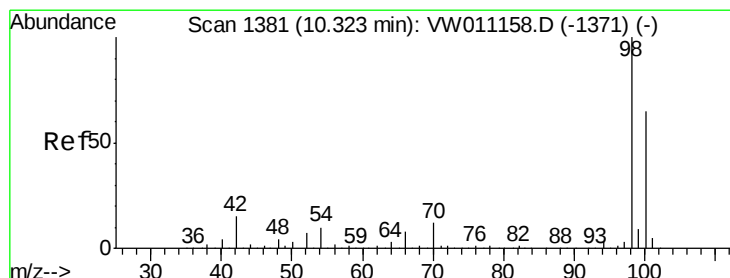
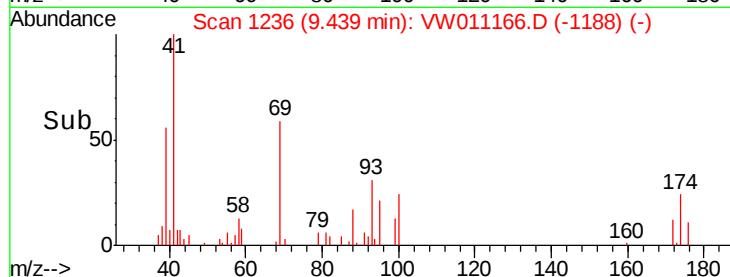
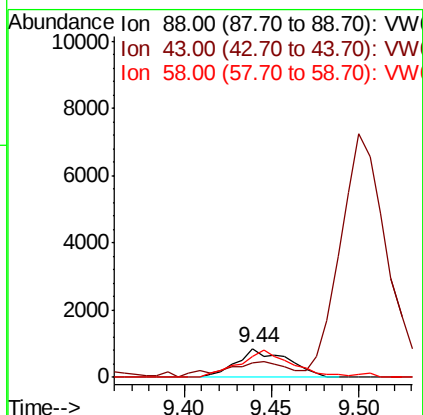
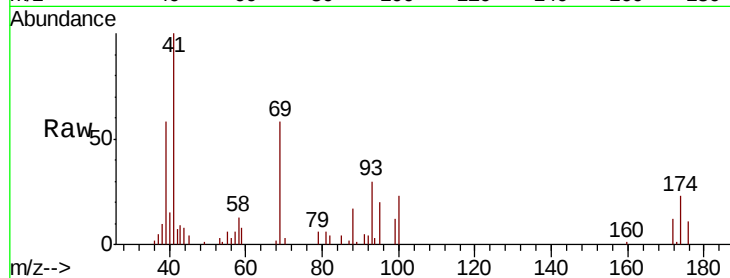
Tot Ion: 88 Resp: 1714

Ion Ratio Lower Upper

88 100

43 67.4 33.4 50.0#

58 98.3 64.5 96.7#



#50

Toluene-d8

Concen: 43.400 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW011166.D

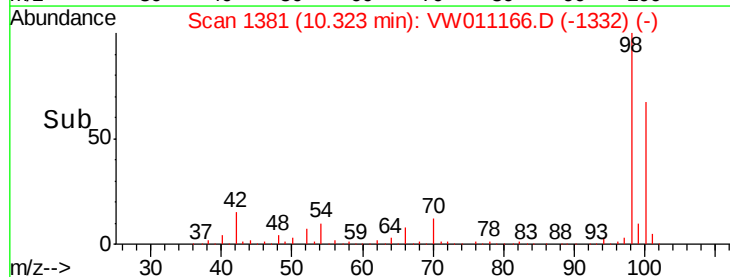
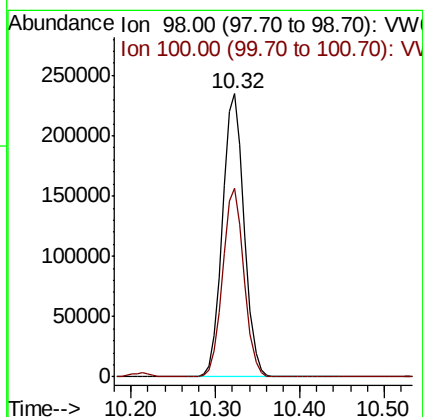
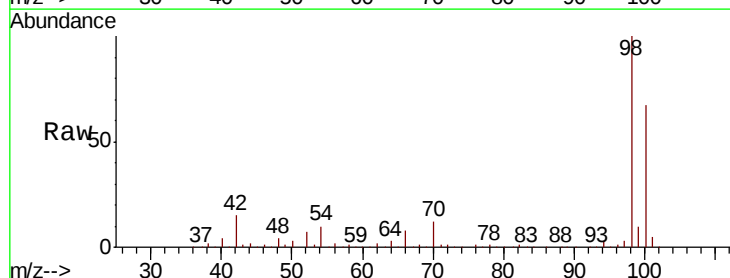
Acq: 08 Jul 2019 17:40

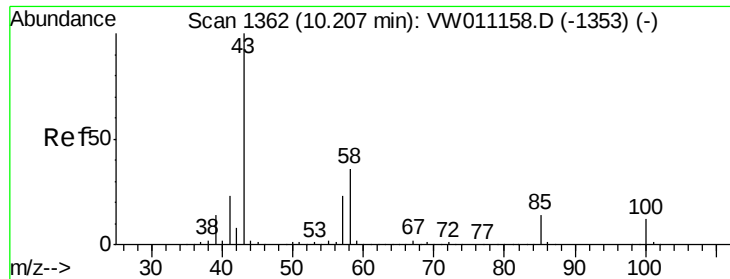
Tgt Ion: 98 Resp: 414779

Ion Ratio Lower Upper

98 100

100 65.7 52.4 78.6





#51

4-Methyl-2-Pentanone

Concen: 19.068 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

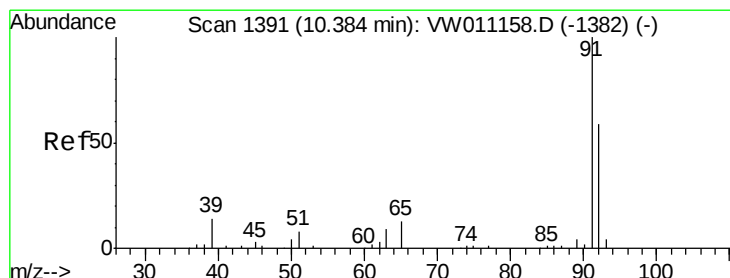
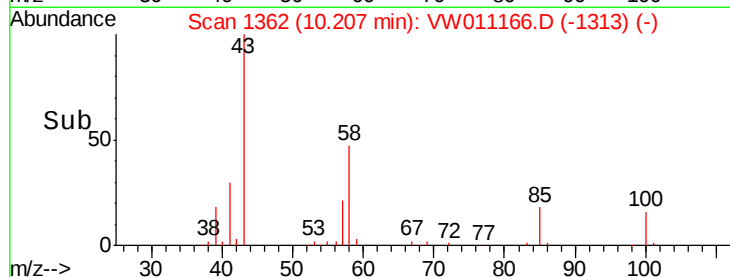
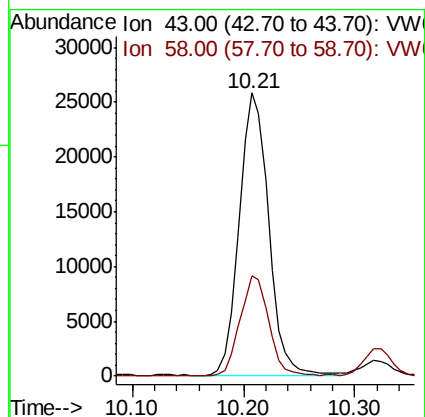
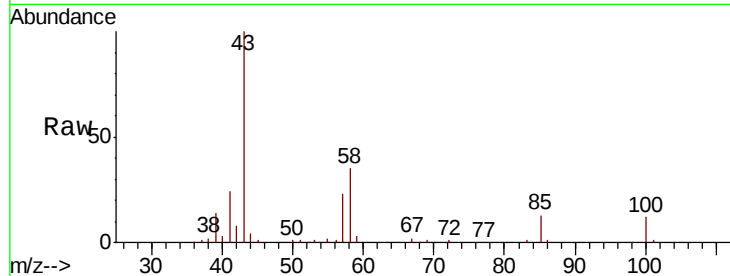
LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 43 Resp: 47729

Ion Ratio Lower Upper

43 100

58 34.8 28.2 42.2



#52

Toluene

Concen: 3.883 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW011166.D

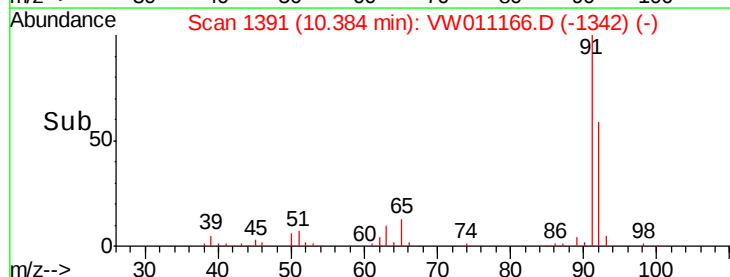
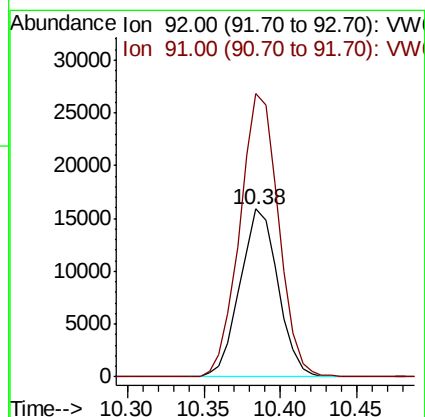
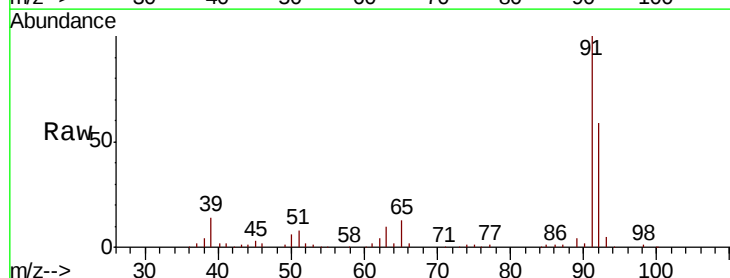
Acq: 08 Jul 2019 17:40

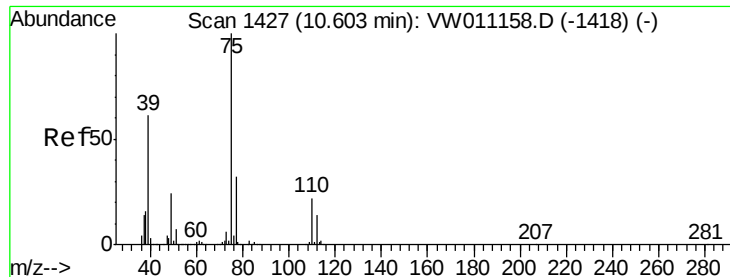
Tgt Ion: 92 Resp: 27499

Ion Ratio Lower Upper

92 100

91 172.4 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 3.412 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

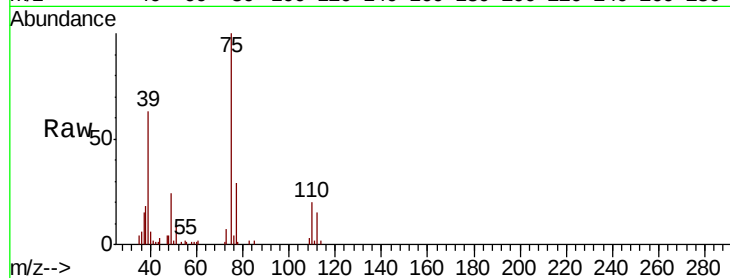
LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 75 Resp: 13801

Ion Ratio Lower Upper

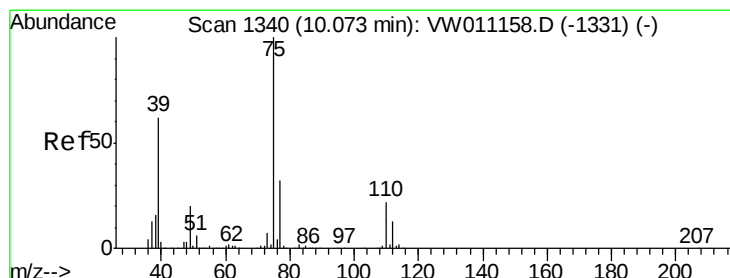
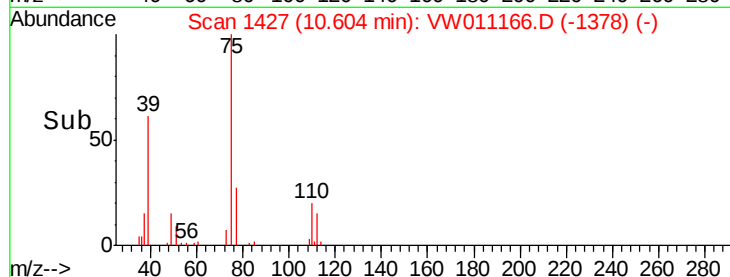
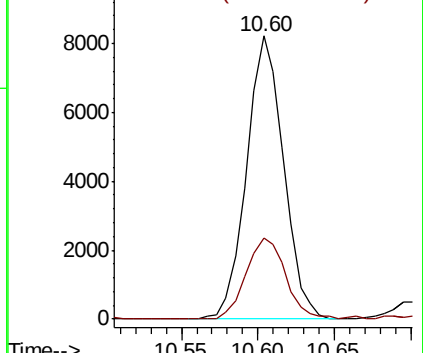
75 100

77 28.6 25.4 38.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW



#54

cis-1,3-Dichloropropene

Concen: 3.657 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

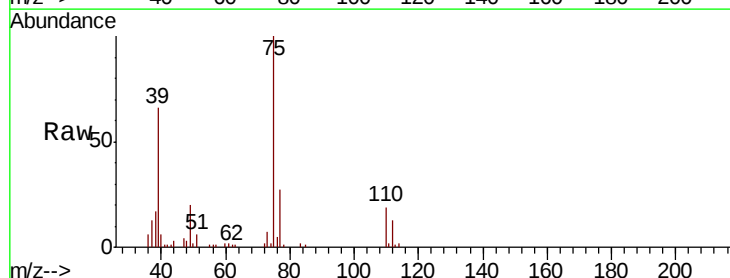
Tgt Ion: 75 Resp: 17408

Ion Ratio Lower Upper

75 100

77 26.6 25.7 38.5

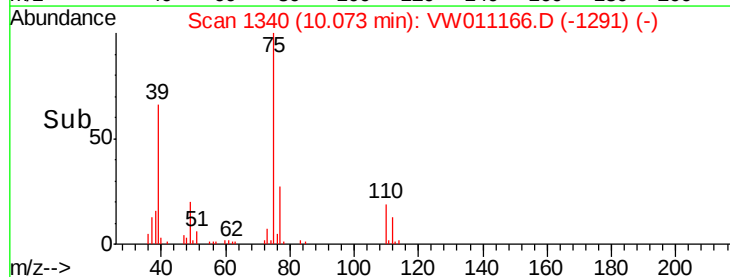
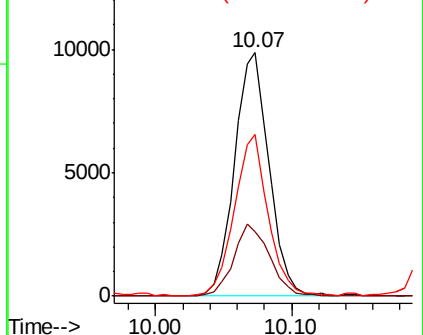
39 66.4 49.8 74.8

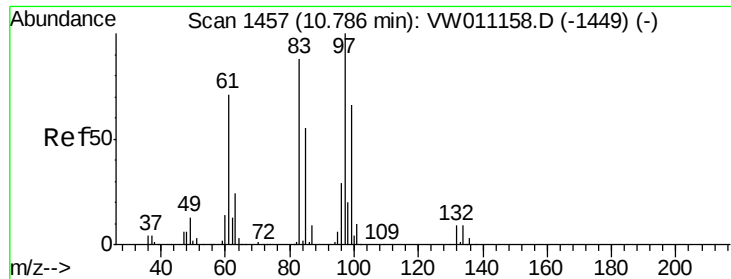


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW

Ion 39.00 (38.70 to 39.70): VW

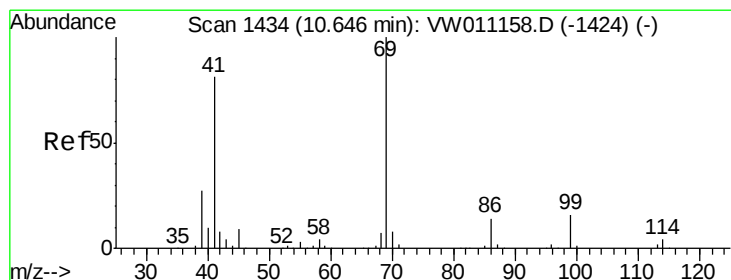
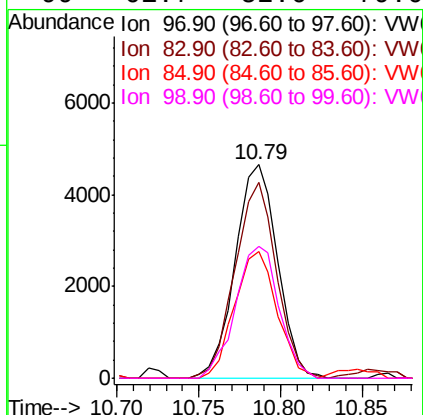
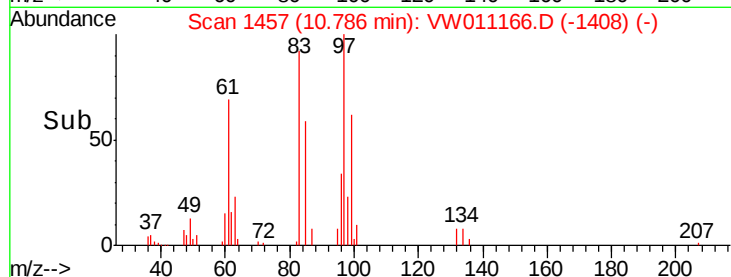
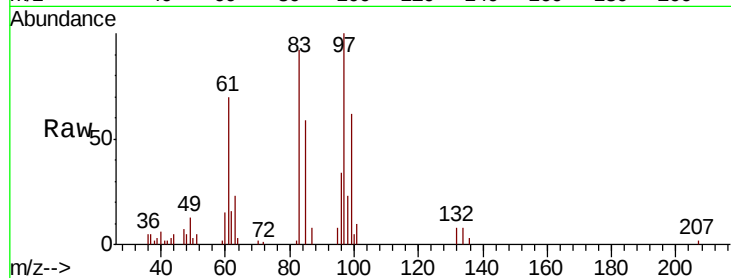




#55
 1,1,2-Trichloroethane
 Concen: 4.000 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

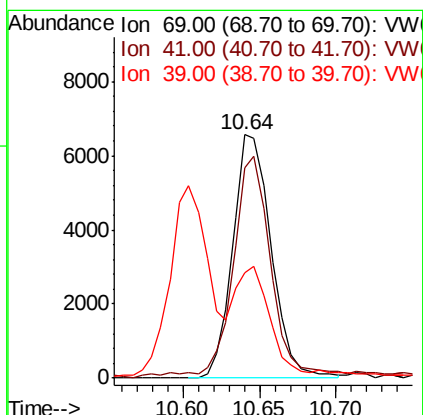
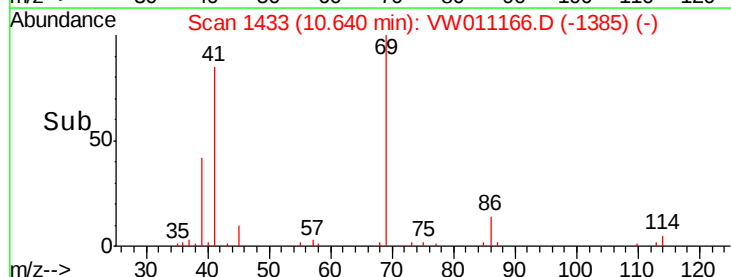
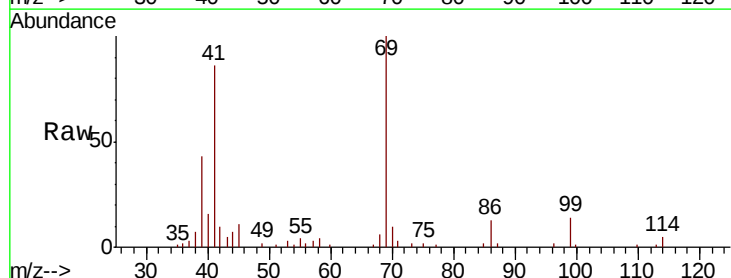
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

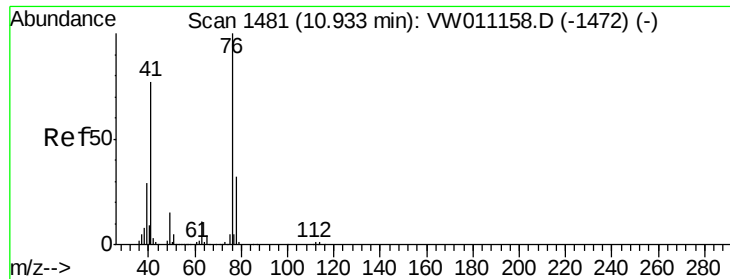
Tot Ion: 97 Resp: 8427
 Ion Ratio Lower Upper
 97 100
 83 91.8 70.2 105.4
 85 59.2 44.2 66.2
 99 61.7 52.6 79.0



#56
 Ethyl methacrylate
 Concen: 3.570 ug/l
 RT: 10.64 min Scan# 1433
 Delta R.T. -0.01 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Tgt Ion: 69 Resp: 11452
 Ion Ratio Lower Upper
 69 100
 41 92.0 66.5 99.7
 39 38.1 32.5 48.7

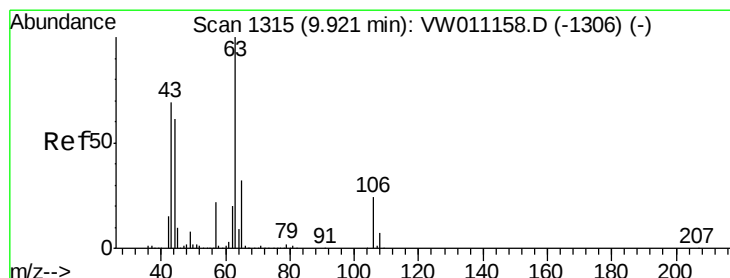
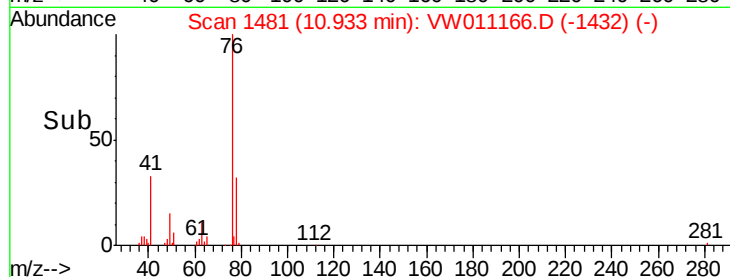
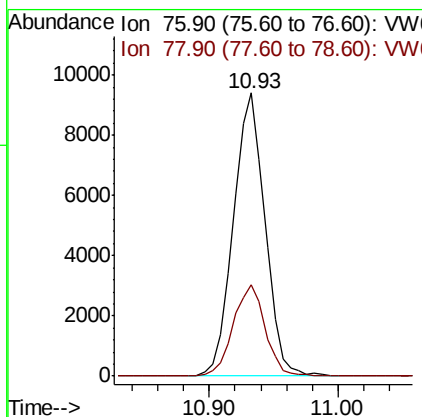
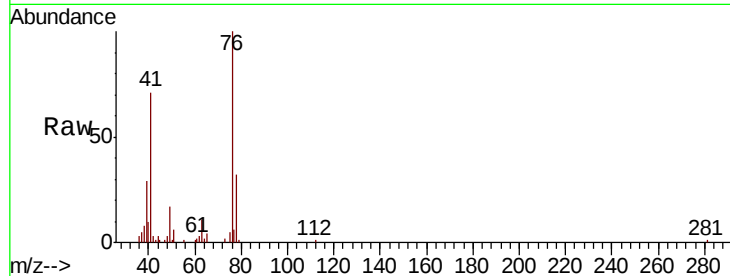




#57
 1,3-Dichloropropane
 Concen: 4.025 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. 0.00 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

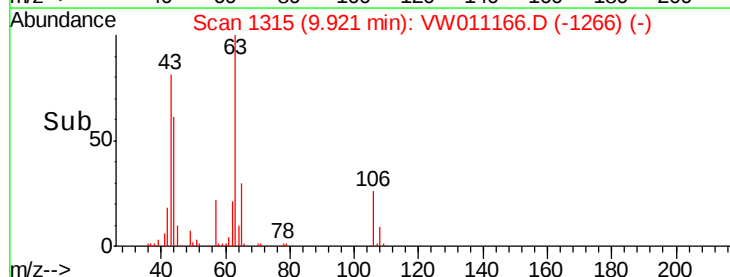
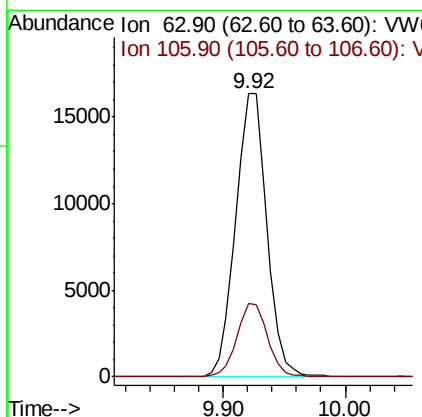
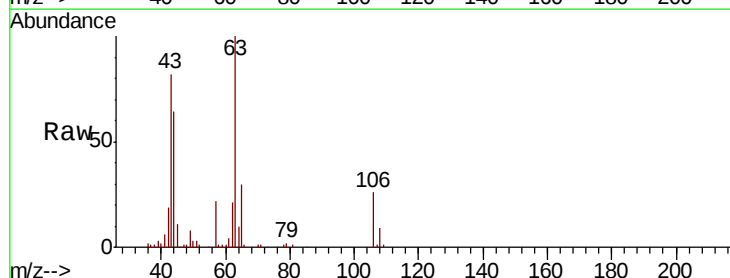
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

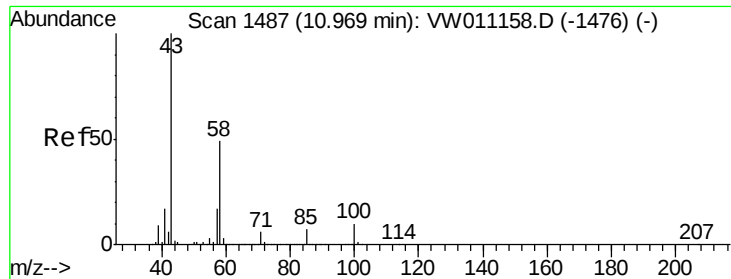
Tot Ion: 76 Resp: 16035
 Ion Ratio Lower Upper
 76 100
 78 32.5 26.2 39.2



#58
 2-Chloroethyl Vinyl ether
 Concen: 19.435 ug/l
 RT: 9.92 min Scan# 1315
 Delta R.T. 0.00 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Tgt Ion: 63 Resp: 28900
 Ion Ratio Lower Upper
 63 100
 106 25.3 19.4 29.0

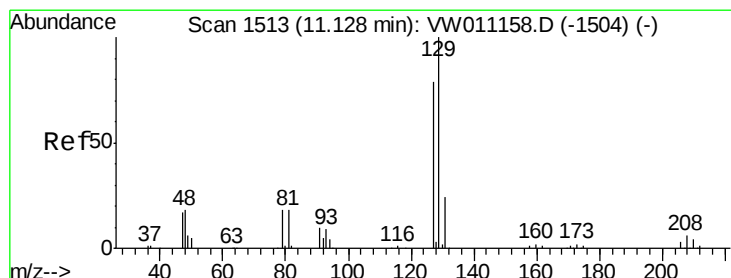
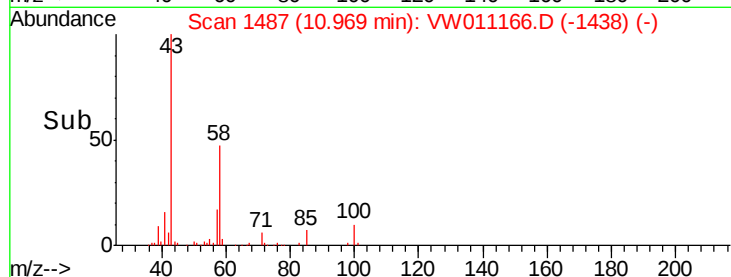
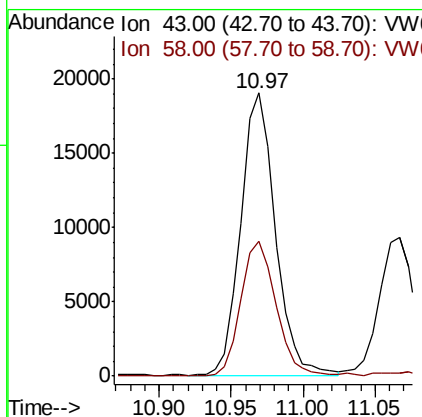
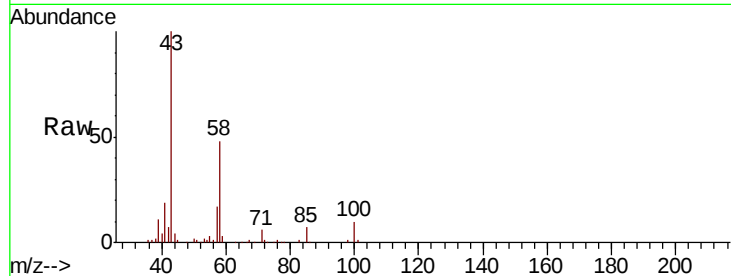




#59
2-Hexanone
Concen: 18.233 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

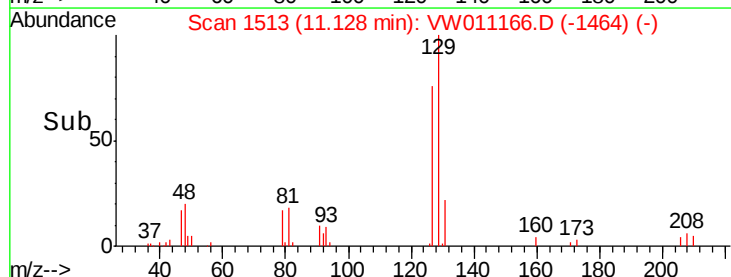
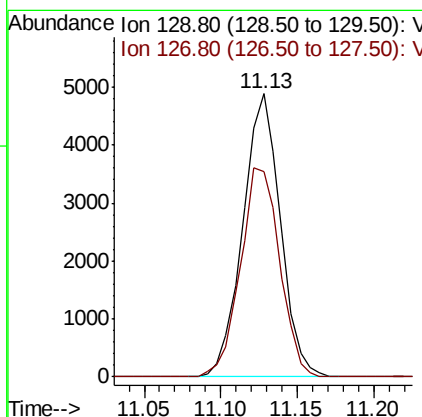
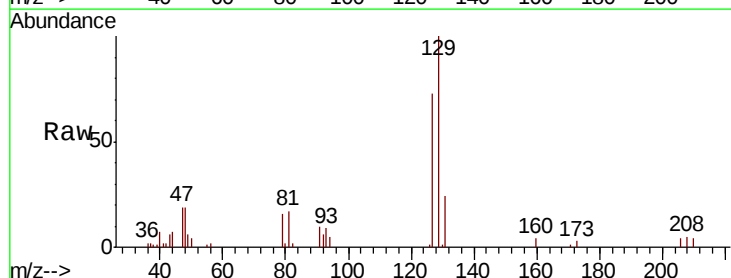
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

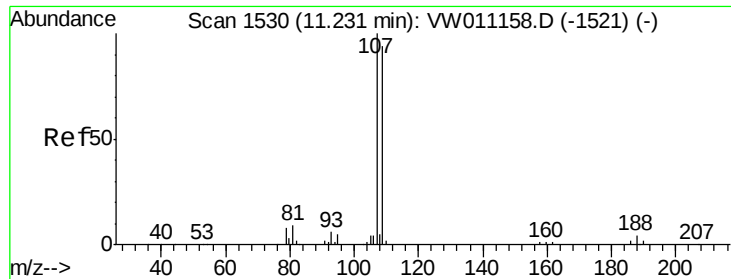
Tot Ion: 43 Resp: 31651
Ion Ratio Lower Upper
43 100
58 48.6 24.4 73.4



#60
Dibromochloromethane
Concen: 3.600 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion: 129 Resp: 8316
Ion Ratio Lower Upper
129 100
127 77.4 39.1 117.3

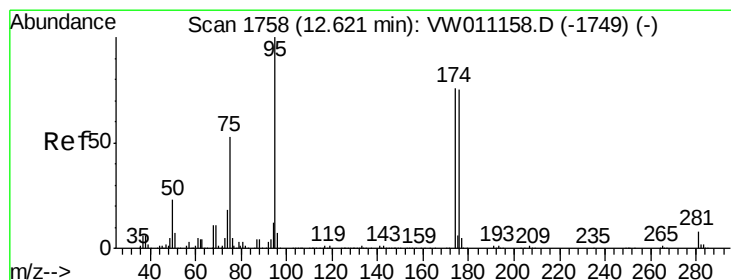
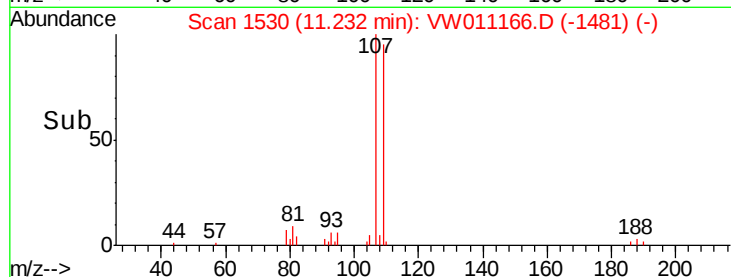
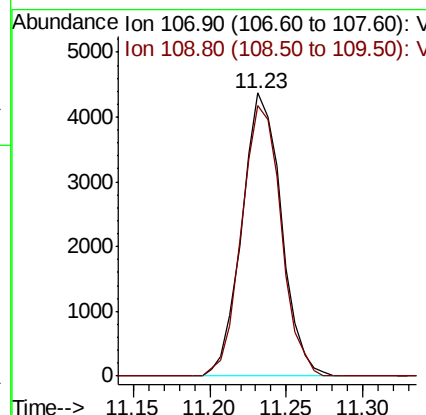
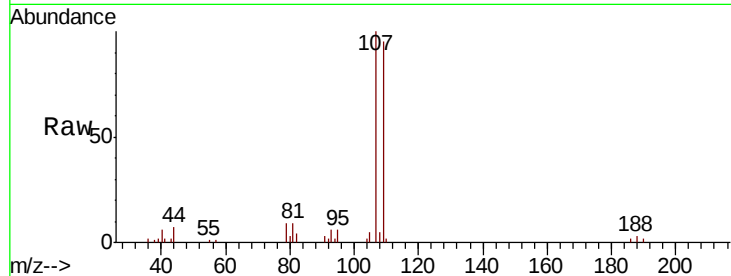




#61
 1,2-Dibromoethane
 Concen: 3.928 ug/l
 RT: 11.23 min Scan# 1530
 Delta R.T. 0.00 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

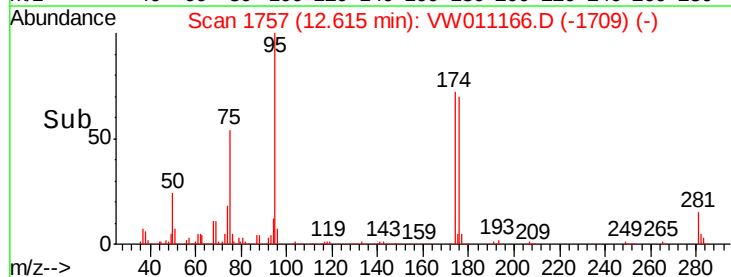
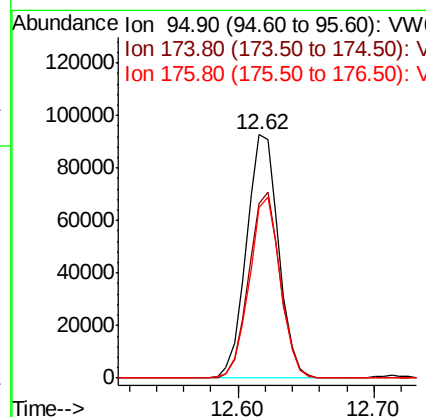
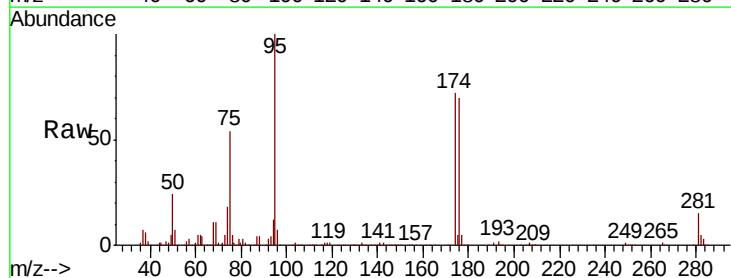
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

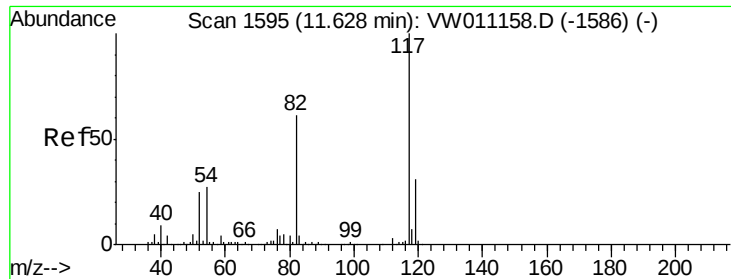
Tot Ion: 107 Resp: 7839
 Ion Ratio Lower Upper
 107 100
 109 95.4 75.2 112.8



#62
 4-Bromofluorobenzene
 Concen: 43.592 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.01 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Tgt Ion: 95 Resp: 152701
 Ion Ratio Lower Upper
 95 100
 174 74.6 0.0 147.6
 176 72.1 0.0 144.6

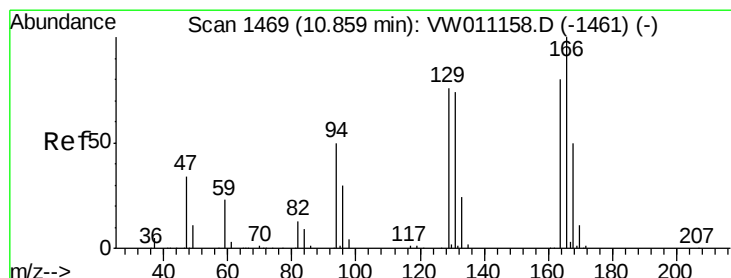
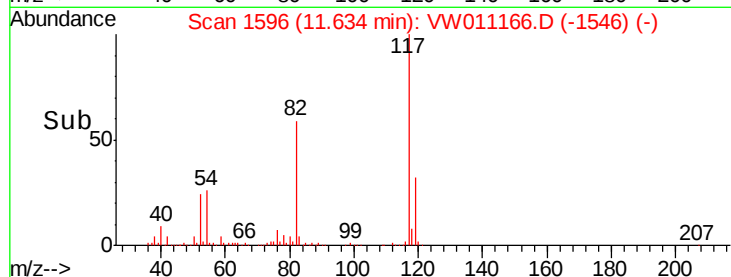
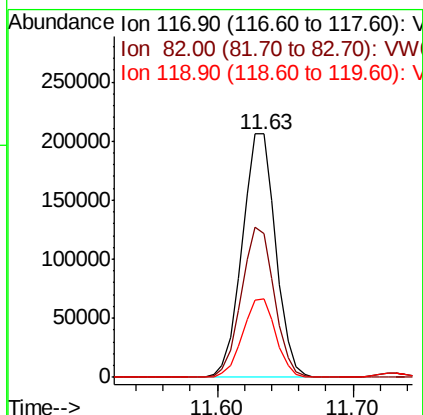
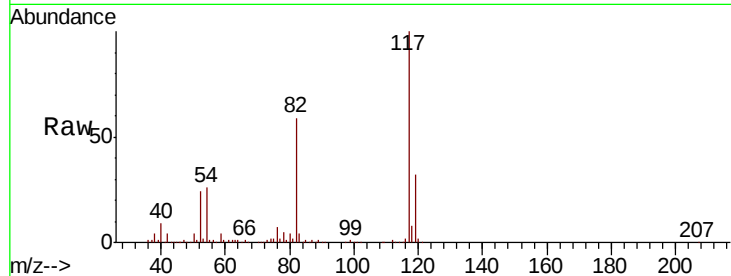




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.01 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

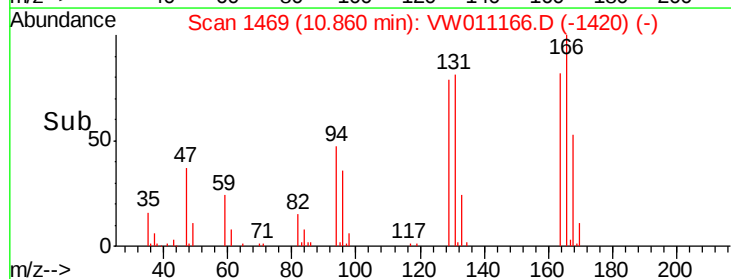
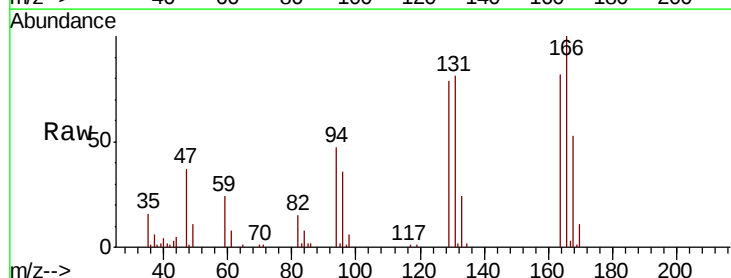
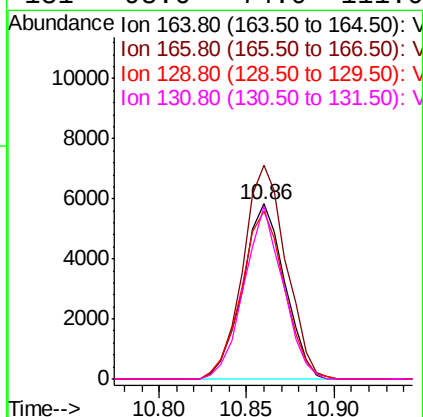
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

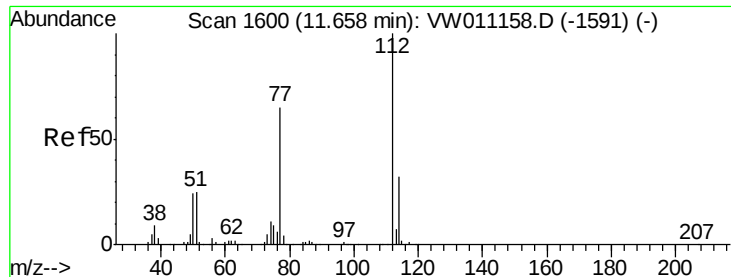
Tot Ion:117 Resp: 354154
Ion Ratio Lower Upper
117 100
82 59.0 48.9 73.3
119 32.1 25.0 37.6



#64
Tetrachloroethene
Concen: 4.100 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion:164 Resp: 9798
Ion Ratio Lower Upper
164 100
166 122.2 99.7 149.5
129 96.0 76.2 114.2
131 98.6 74.0 111.0

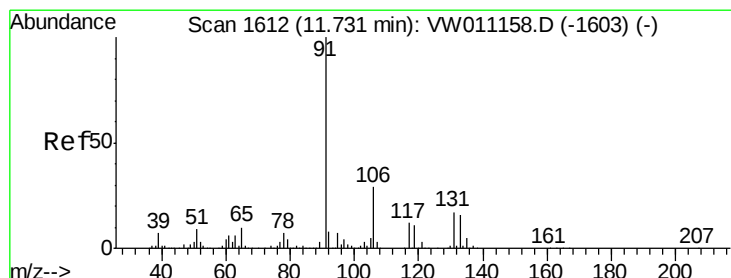
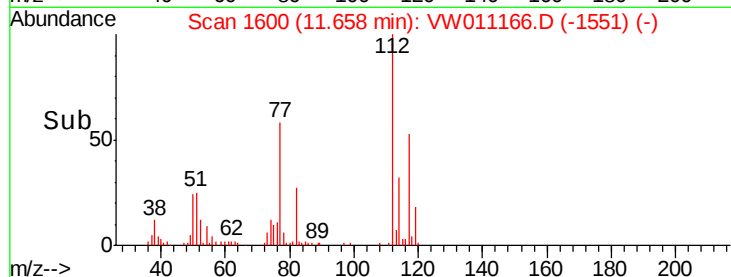
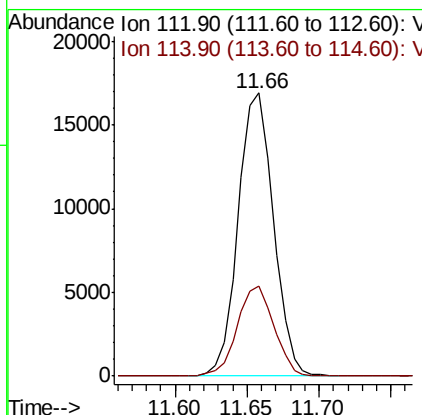
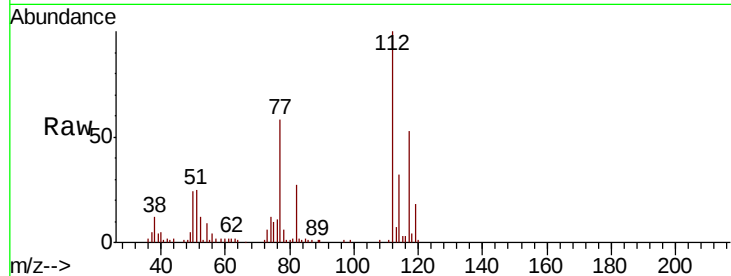




#65
Chlorobenzene
Concen: 3.993 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

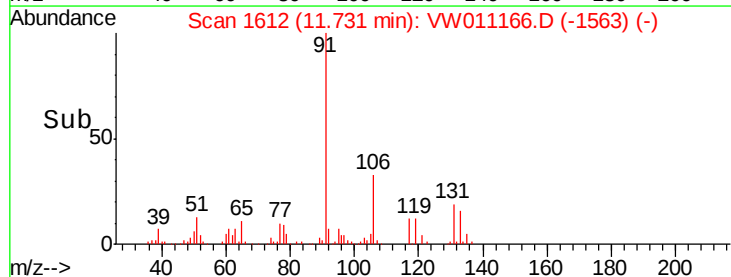
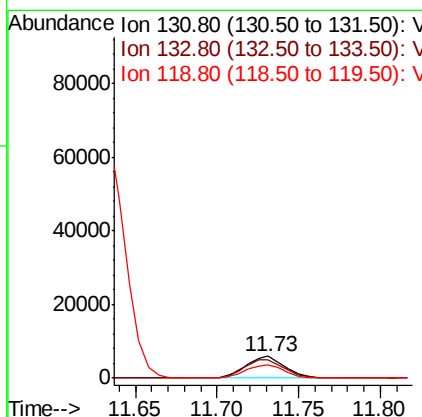
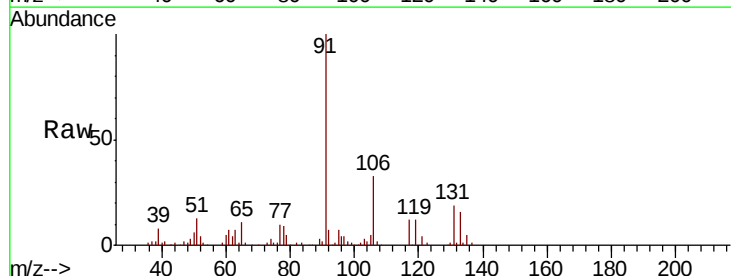
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

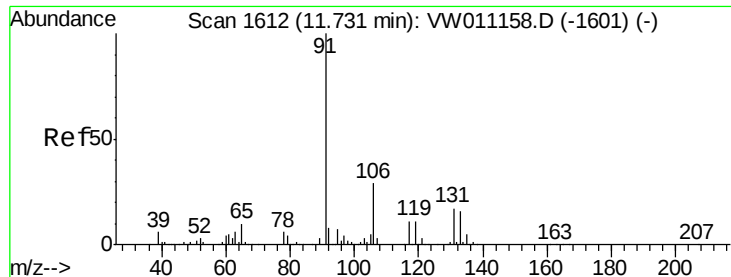
Tot Ion:112 Resp: 28752
Ion Ratio Lower Upper
112 100
114 31.9 25.5 38.3



#66
1,1,1,2-Tetrachloroethane
Concen: 3.800 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion:131 Resp: 9634
Ion Ratio Lower Upper
131 100
133 90.1 47.9 143.8
119 64.1 33.1 99.2

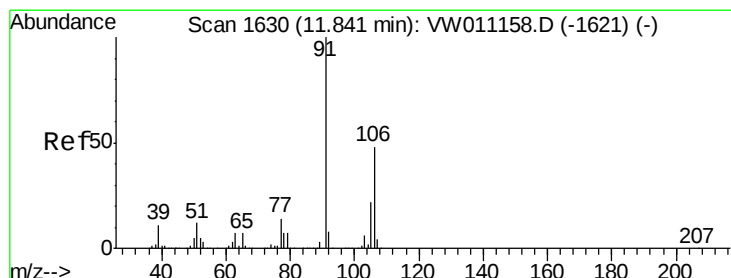
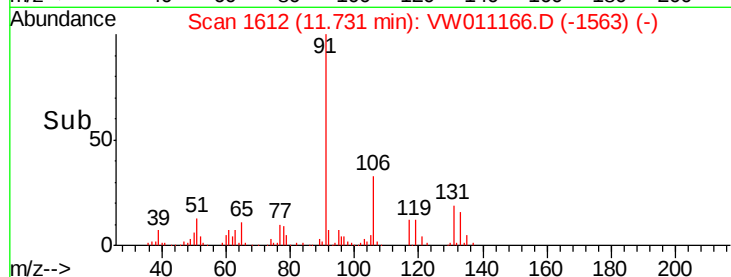
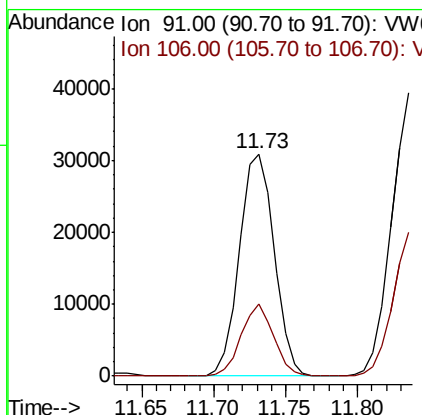
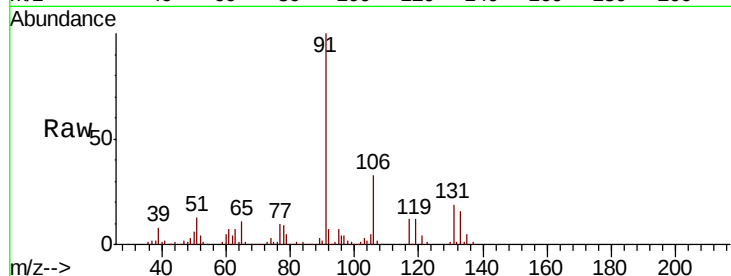




#67
Ethyl Benzene
Concen: 3.772 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

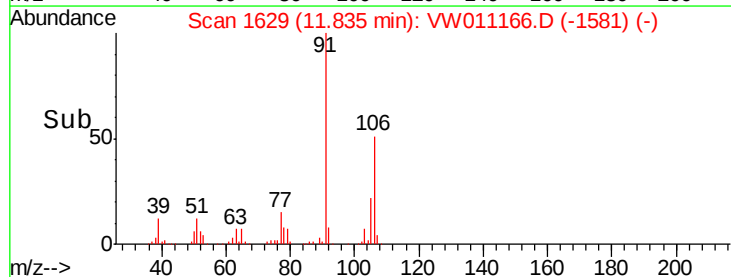
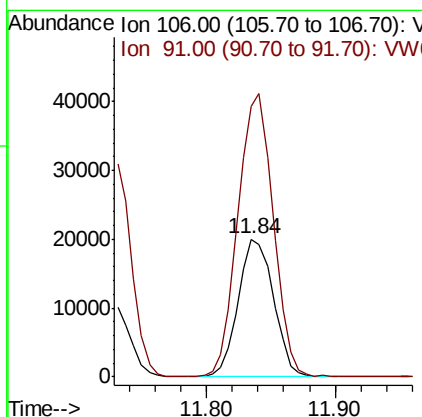
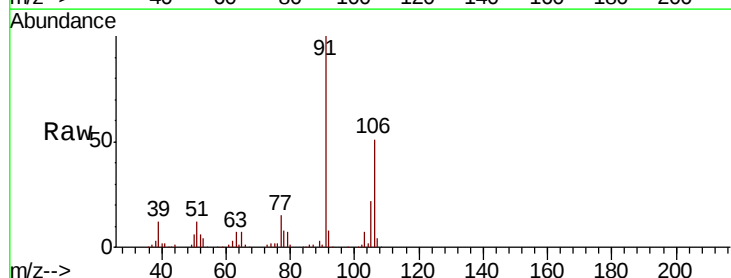
Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

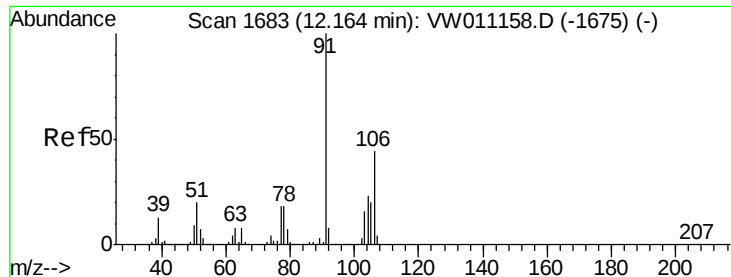
Tot Ion: 91 Resp: 51994
Ion Ratio Lower Upper
91 100
106 32.5 23.5 35.3



#68
m/p-Xylenes
Concen: 7.620 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion: 106 Resp: 38008
Ion Ratio Lower Upper
106 100
91 206.2 167.7 251.5

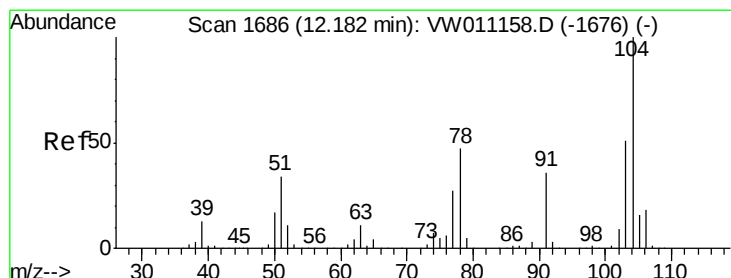
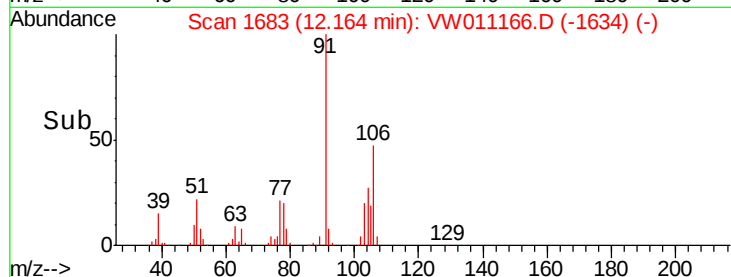
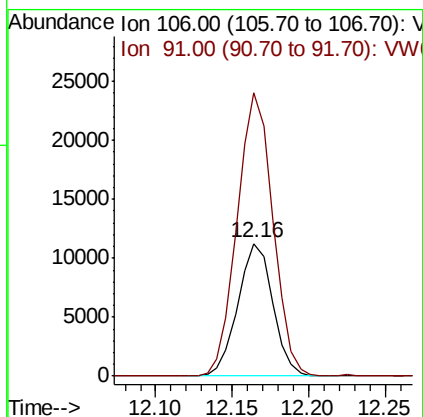
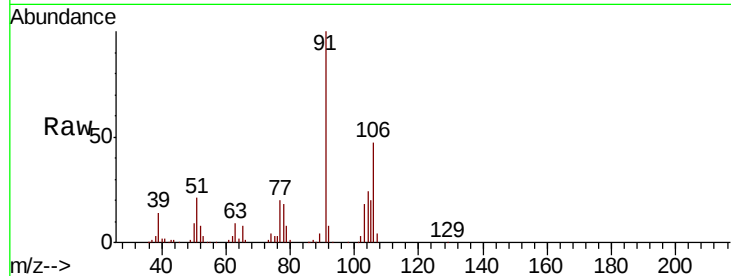




#69
o-Xylene
Concen: 3.791 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

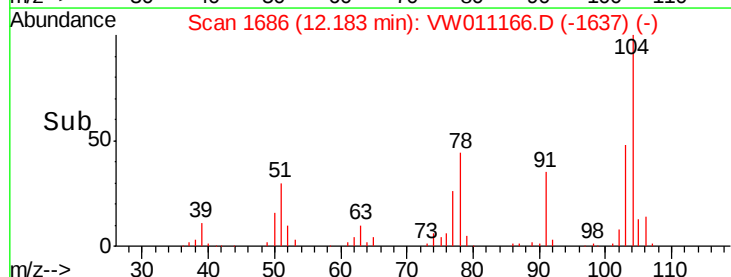
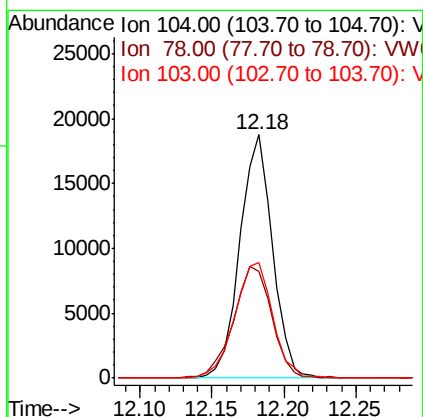
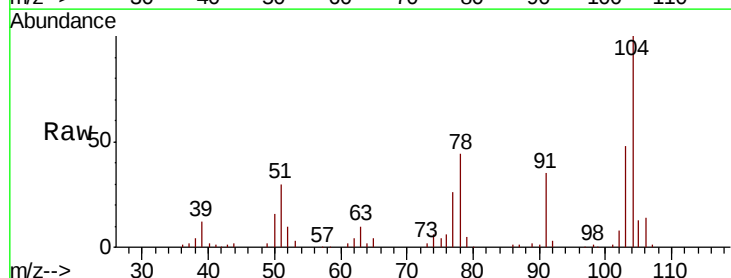
Instrument :
MSVOA_W
ClientSampled :
LOD-MDL-SOIL-01-QT3-2019

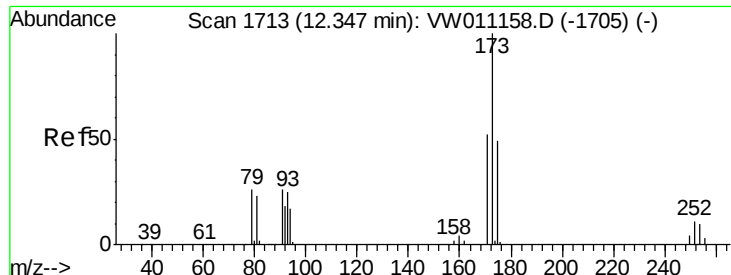
Tot Ion:106 Resp: 17823
Ion Ratio Lower Upper
106 100
91 219.4 110.7 332.1



#70
Styrene
Concen: 3.619 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion:104 Resp: 29363
Ion Ratio Lower Upper
104 100
78 54.8 43.1 64.7
103 55.4 44.1 66.1

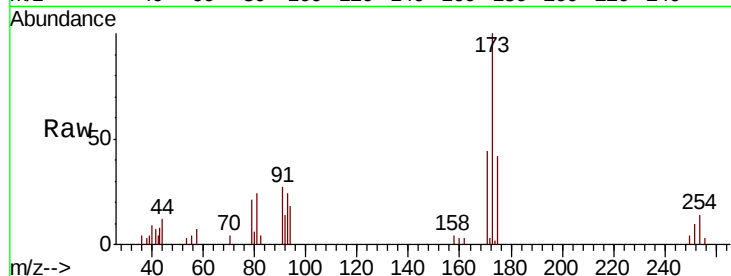




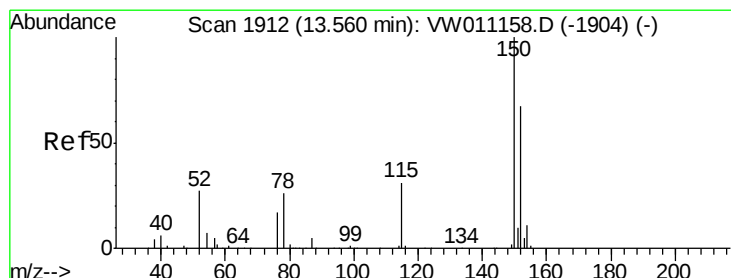
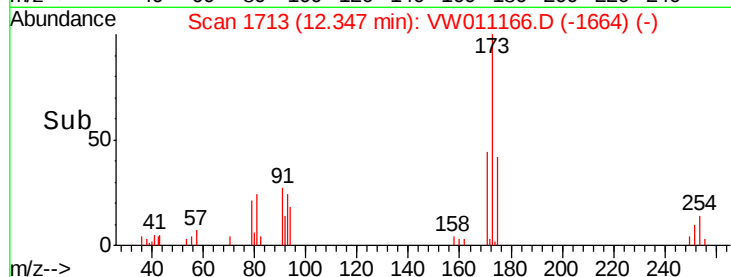
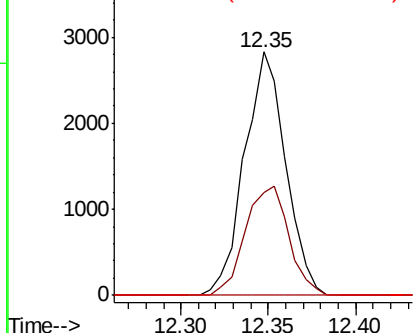
#71
Bromoform
Concen: 3.457 ug/l
RT: 12.35 min Scan# 1713
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion:173 Resp: 4660
Ion Ratio Lower Upper
173 100
175 47.4 24.8 74.3
254 0.0 0.0 0.0

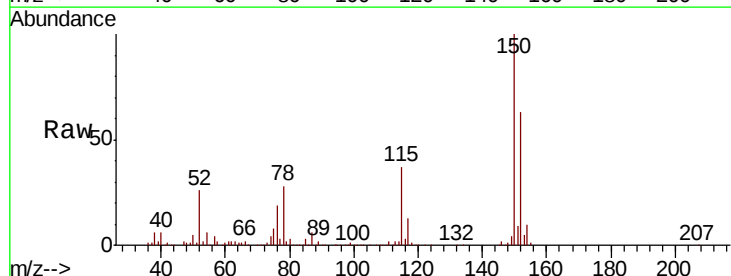


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

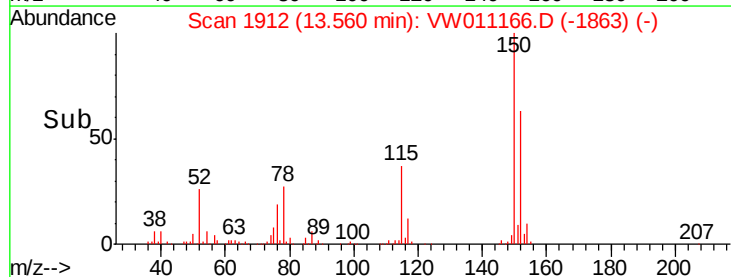
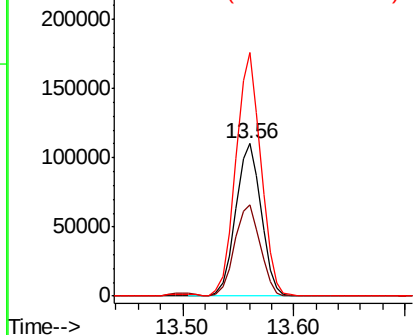


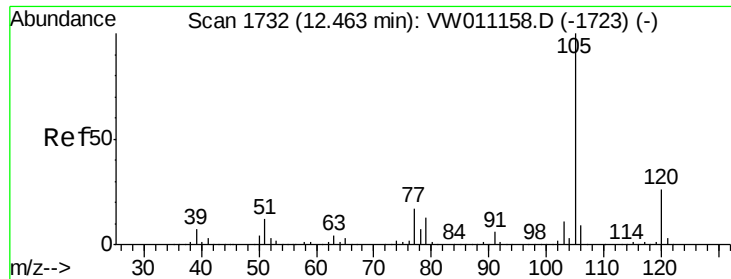
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion:152 Resp: 173983
Ion Ratio Lower Upper
152 100
115 59.9 30.1 90.3
150 157.3 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: 3.775 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

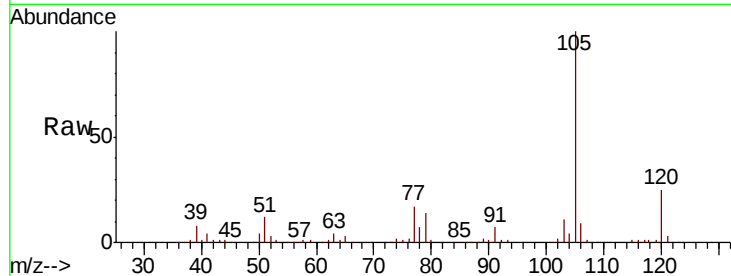
LOD-MDL-SOIL-01-QT3-2019

Tot Ion:105 Resp: 49102

Ion Ratio Lower Upper

105 100

120 25.3 12.8 38.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.46

30000

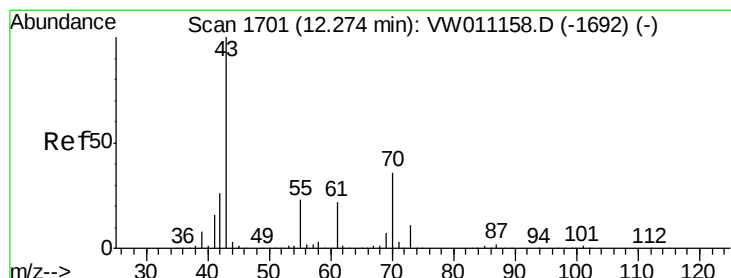
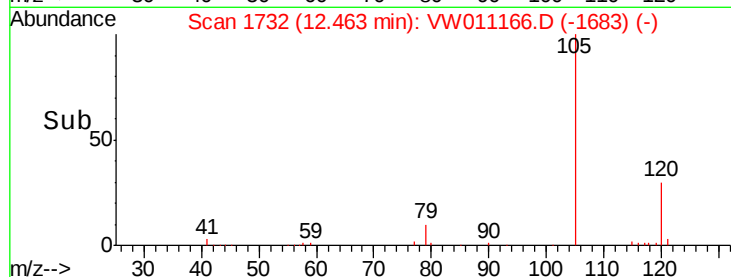
20000

10000

0

Time-->

12.40 12.45 12.50



#74

N-ethyl acetate

Concen: 3.567 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Tgt Ion: 43 Resp: 16157

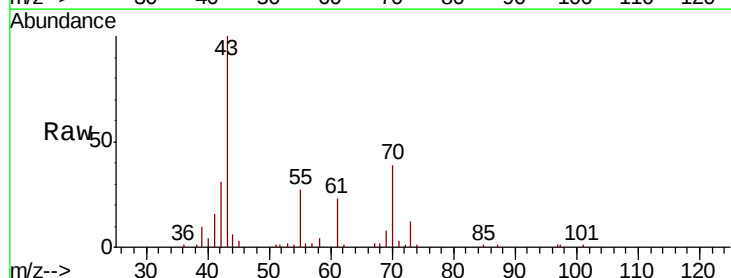
Ion Ratio Lower Upper

43 100

70 36.5 28.5 42.7

55 24.5 18.1 27.1

61 22.5 17.2 25.8



Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV

15000

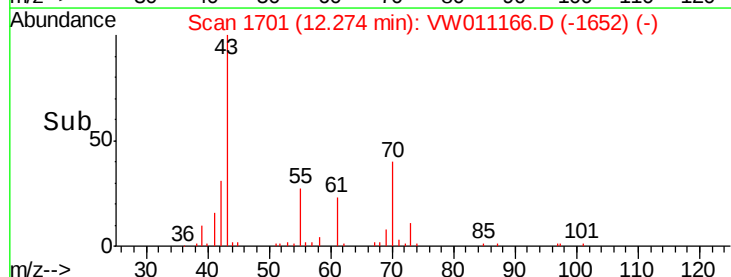
10000

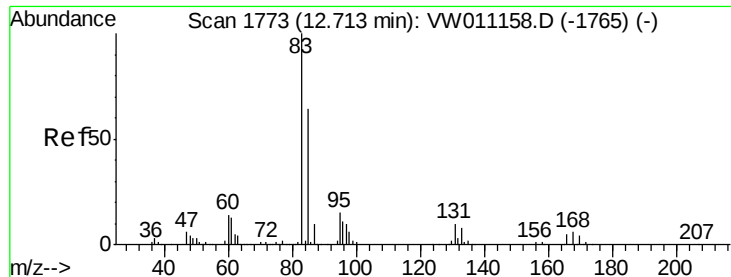
5000

0

Time-->

12.20 12.30





#75

1,1,2,2-Tetrachloroethane

Concen: 3.880 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

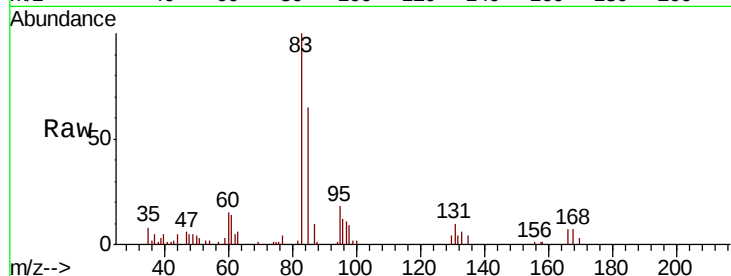
Tot Ion: 83 Resp: 10345

Ion Ratio Lower Upper

83 100

131 11.1 5.0 15.0

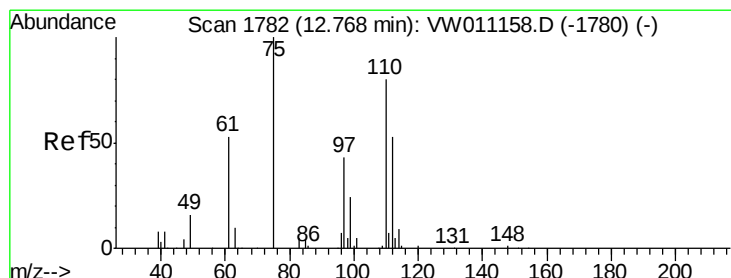
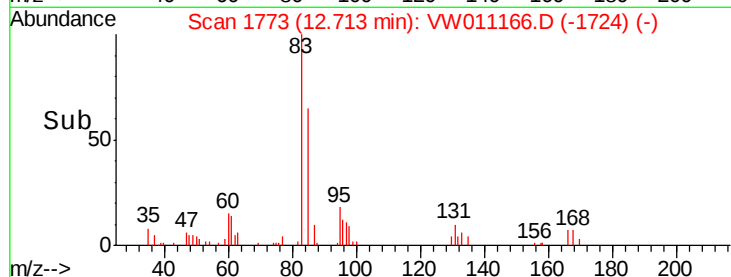
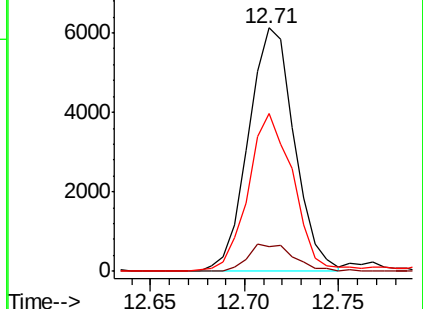
85 63.7 31.6 94.8



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 6.539 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW011166.D

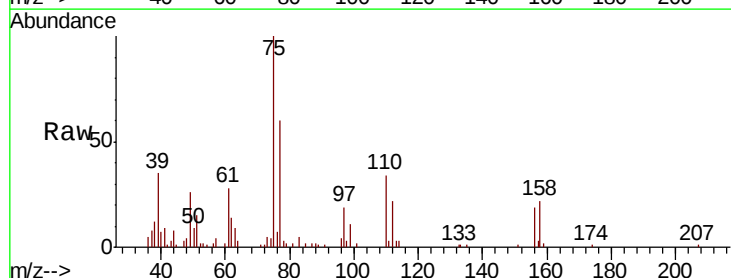
Acq: 08 Jul 2019 17:40

Tgt Ion: 75 Resp: 13148

Ion Ratio Lower Upper

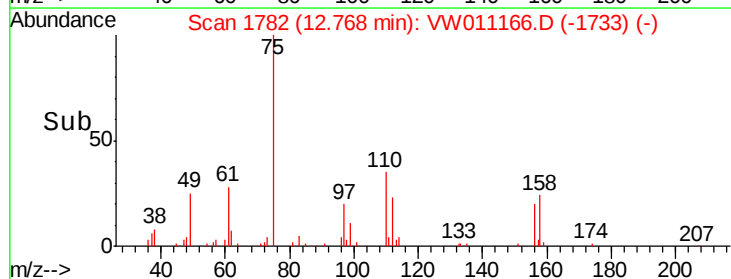
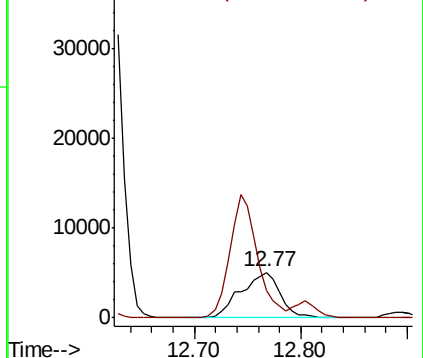
75 100

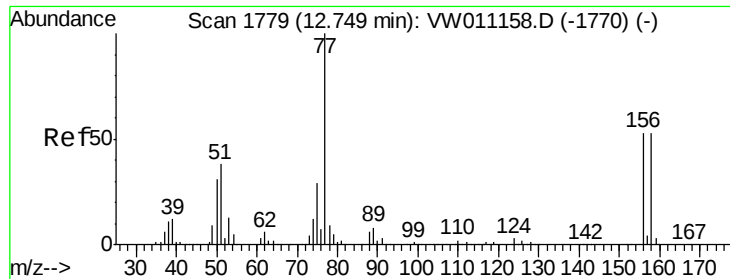
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 3.947 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

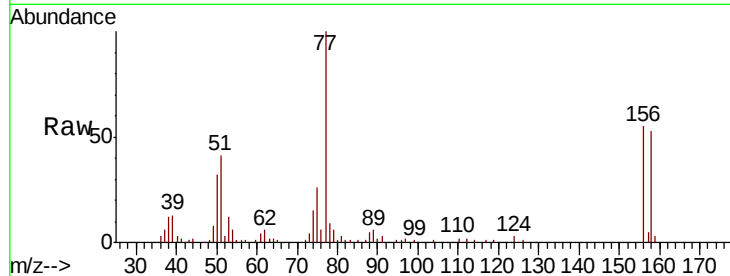
Tot Ion:156 Resp: 11520

Ion Ratio Lower Upper

156 100

77 217.7 109.0 327.0

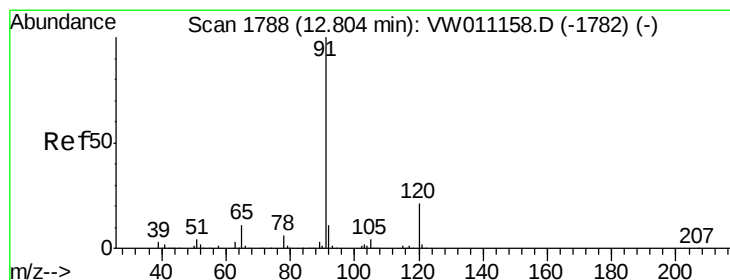
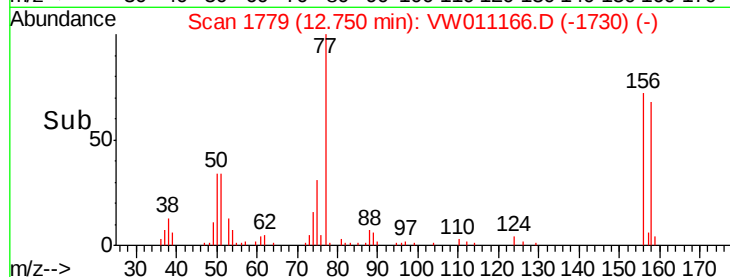
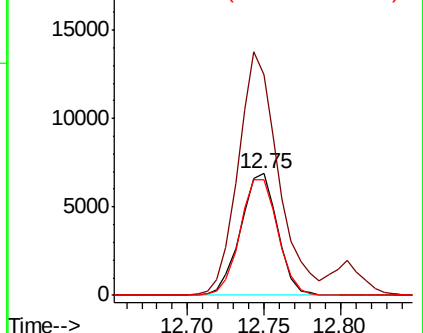
158 97.8 48.8 146.3



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: 3.768 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. 0.00 min

Lab File: VW011166.D

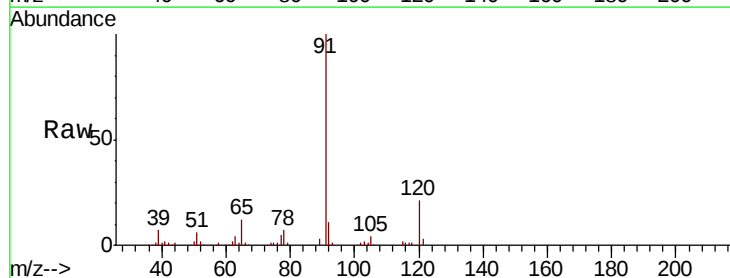
Acq: 08 Jul 2019 17:40

Tgt Ion: 91 Resp: 60366

Ion Ratio Lower Upper

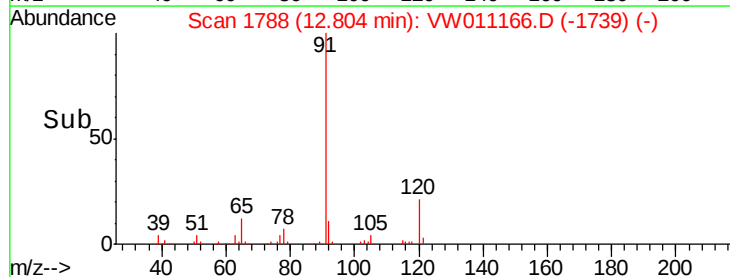
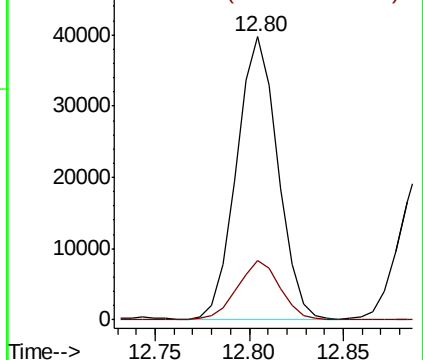
91 100

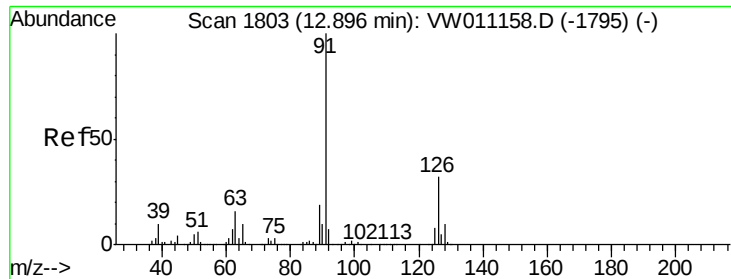
120 21.6 10.8 32.3



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V

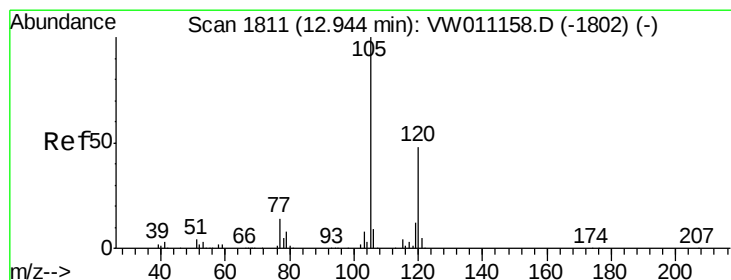
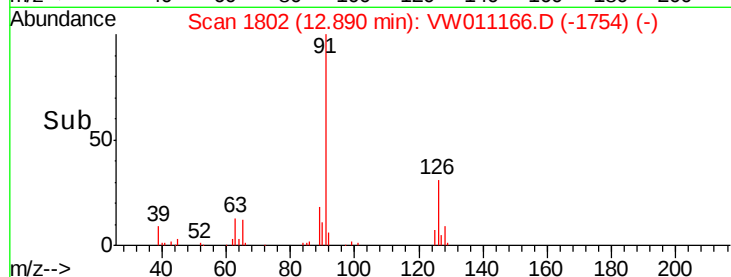
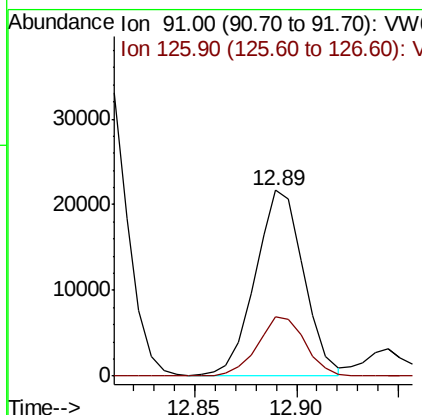
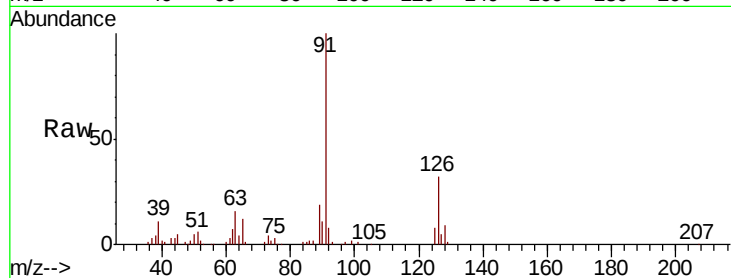




#79
 2-Chlorotoluene
 Concen: 3.882 ug/l
 RT: 12.89 min Scan# 1802
 Delta R.T. -0.01 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

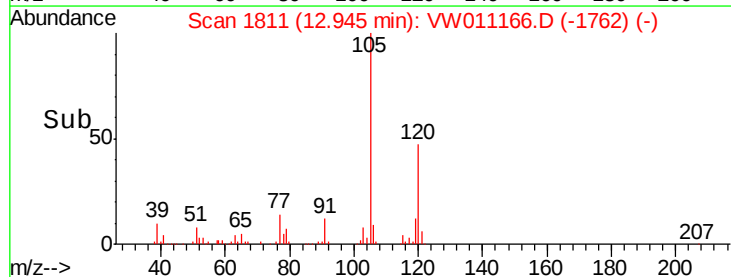
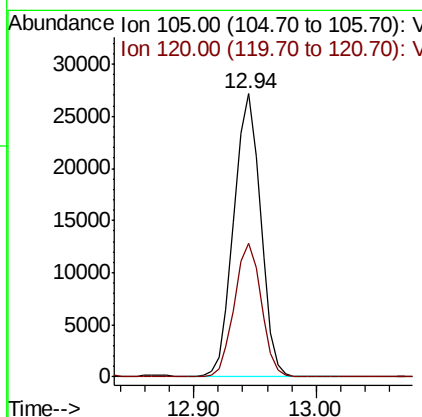
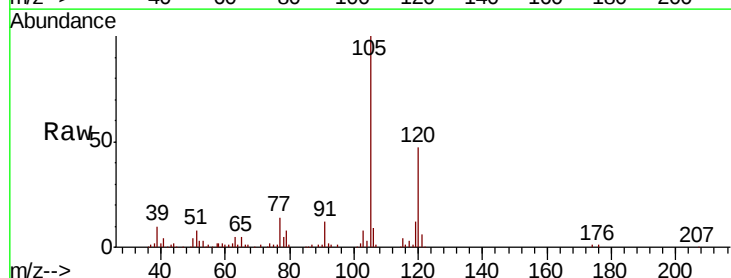
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

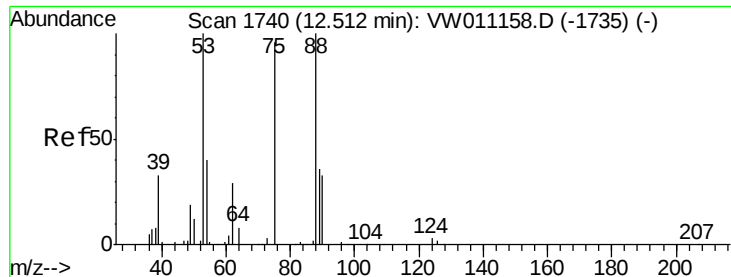
Tot Ion: 91 Resp: 35786
 Ion Ratio Lower Upper
 91 100
 126 31.4 15.8 47.3



#80
 1,3,5-Trimethylbenzene
 Concen: 3.737 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. 0.00 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Tgt Ion: 105 Resp: 41286
 Ion Ratio Lower Upper
 105 100
 120 47.3 24.1 72.2





#81

trans-1,4-Dichloro-2-butene

Concen: 3.020 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

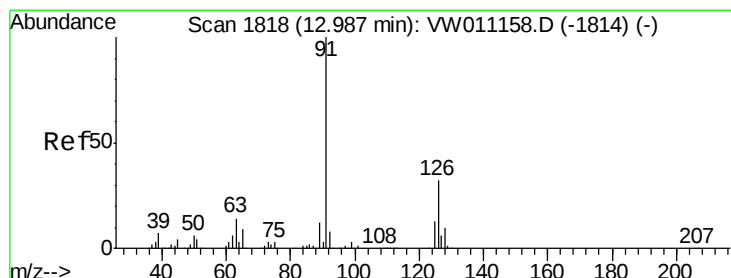
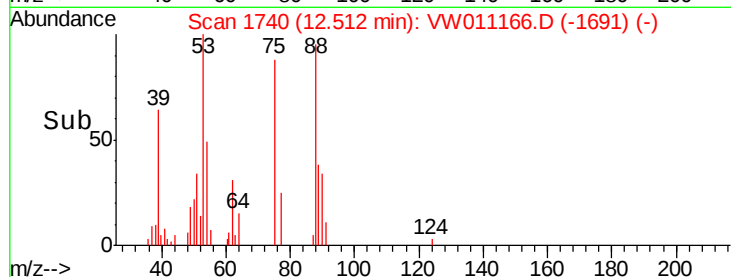
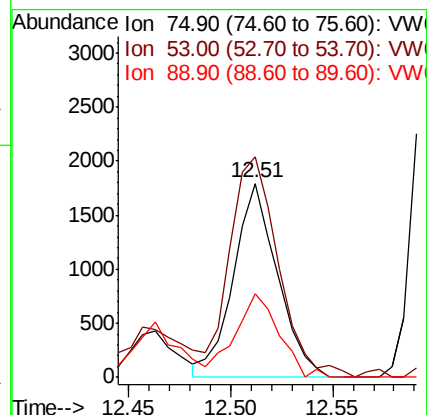
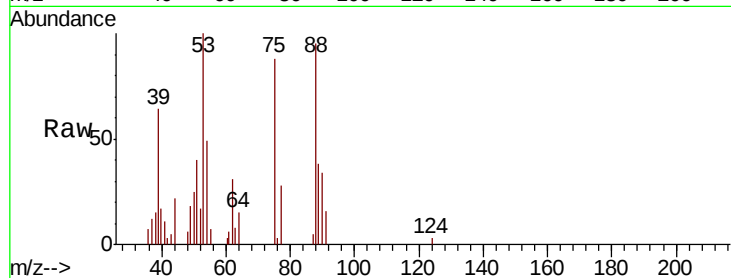
MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

Tot Ion: 75 Resp: 2685

Ion	Ratio	Lower	Upper
75	100		
53	124.2	89.8	134.6
89	42.6	34.3	51.5



#82

4-Chlorotoluene

Concen: 3.867 ug/l

RT: 12.99 min Scan# 1818

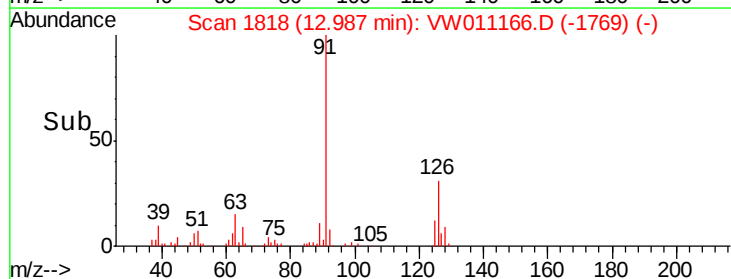
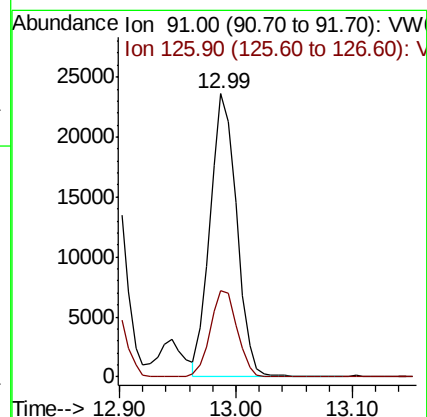
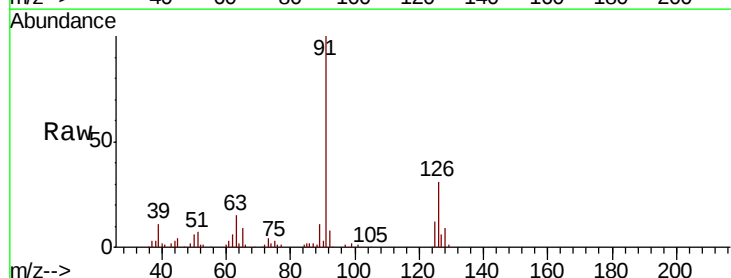
Delta R.T. 0.00 min

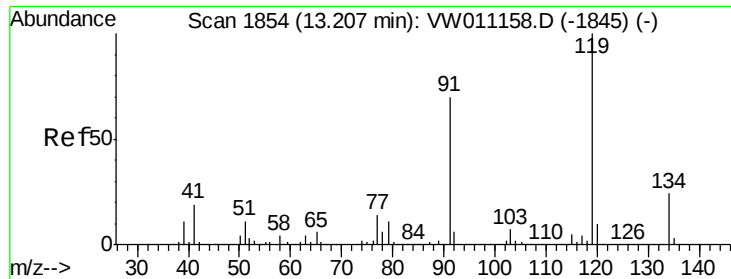
Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Tgt Ion: 91 Resp: 37134

Ion	Ratio	Lower	Upper
91	100		
126	30.8	15.7	47.1

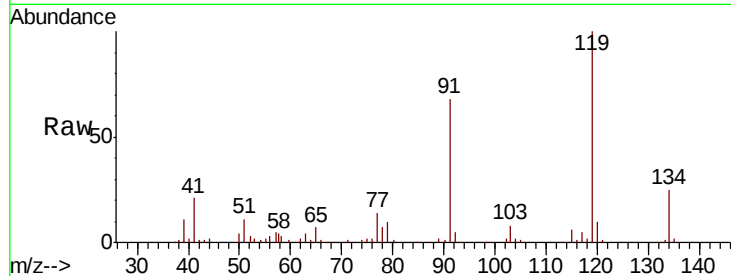




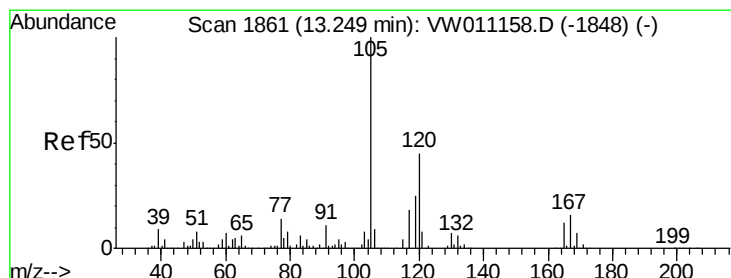
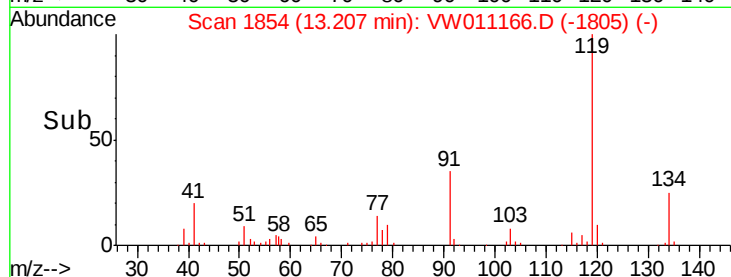
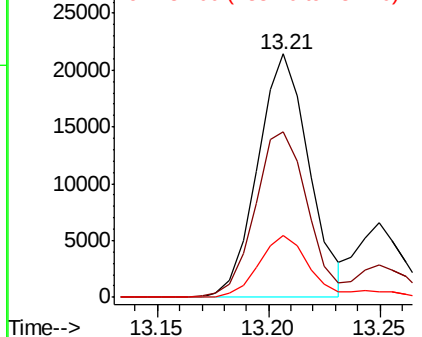
#83
tert-Butylbenzene
Concen: 3.729 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion:119 Resp: 34365
Ion Ratio Lower Upper
119 100
91 69.2 35.4 106.3
134 24.5 13.4 40.2

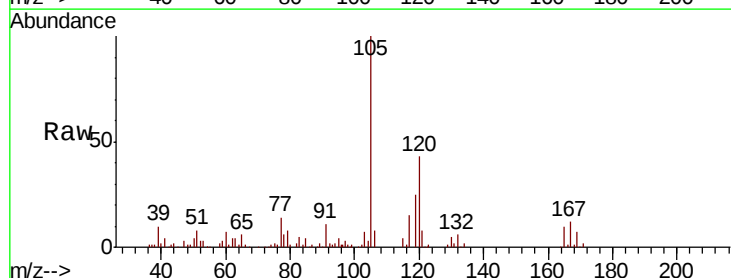


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

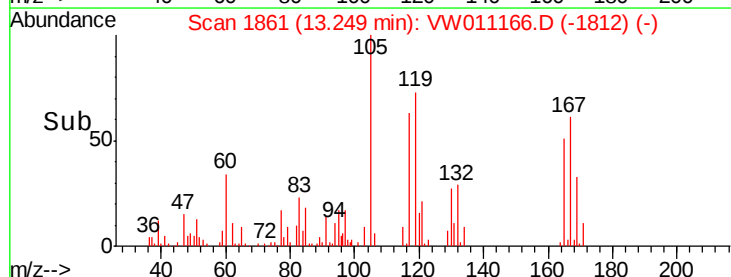
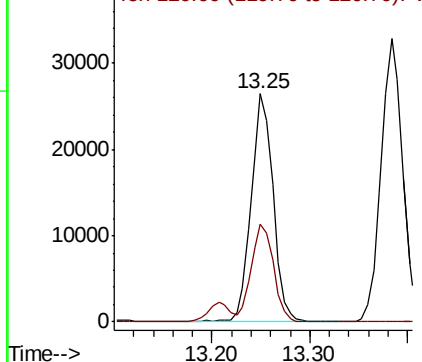


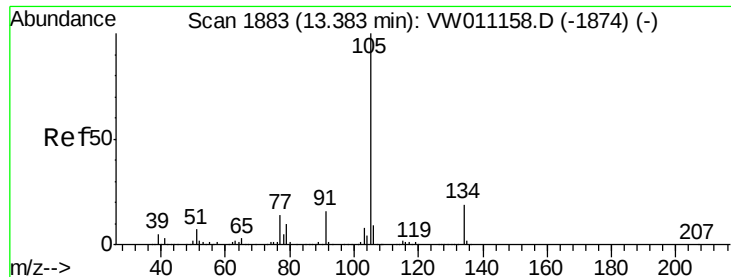
#84
1,2,4-Trimethylbenzene
Concen: 3.729 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion:105 Resp: 41369
Ion Ratio Lower Upper
105 100
120 43.3 22.3 66.9



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 3.765 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

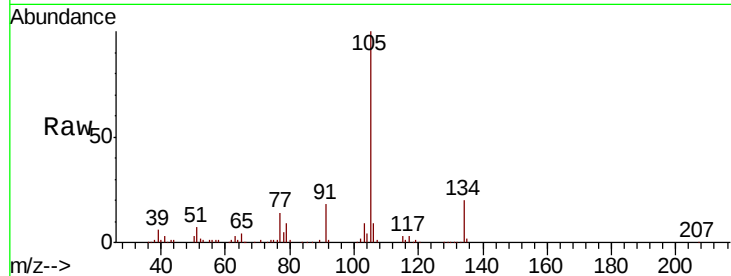
LOD-MDL-SOIL-01-QT3-2019

Tot Ion:105 Resp: 50063

Ion Ratio Lower Upper

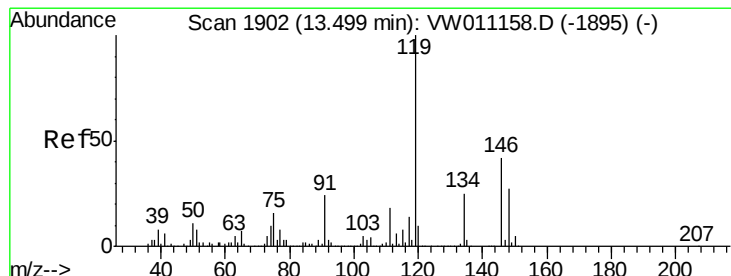
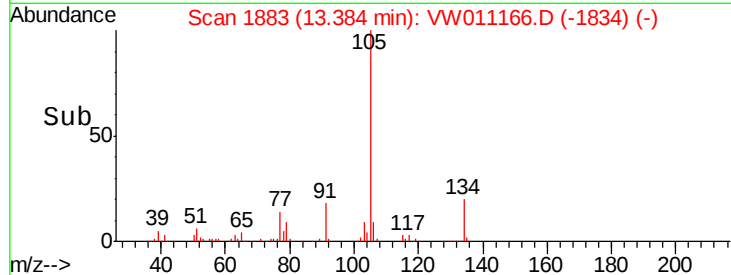
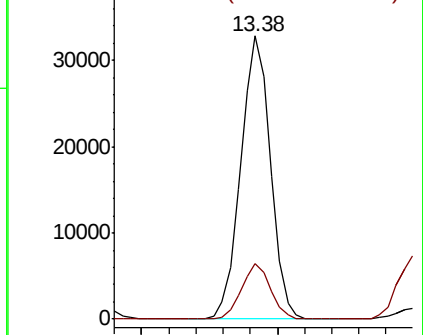
105 100

134 19.1 9.7 28.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 3.754 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

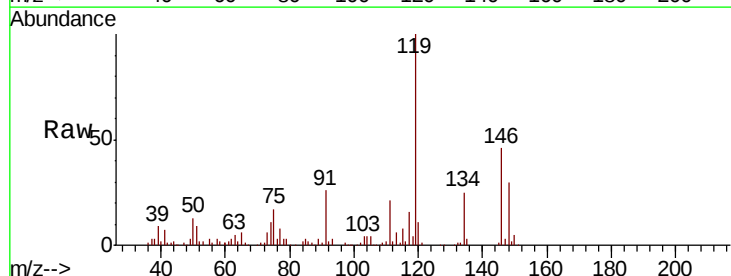
Tgt Ion:119 Resp: 44770

Ion Ratio Lower Upper

119 100

134 24.9 12.9 38.6

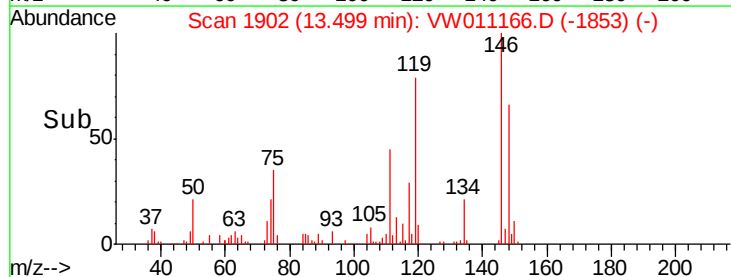
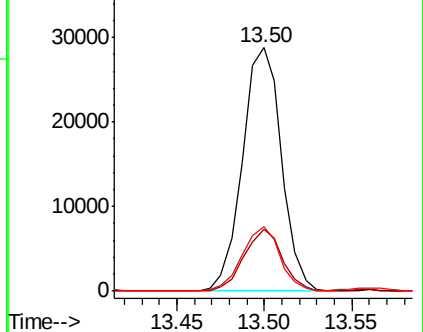
91 26.1 12.3 36.8

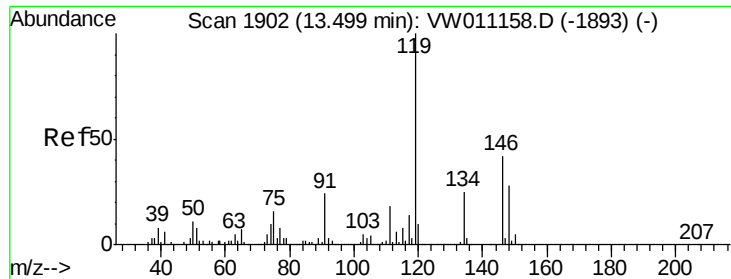


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

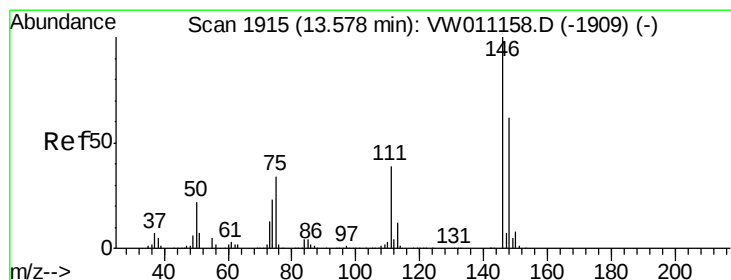
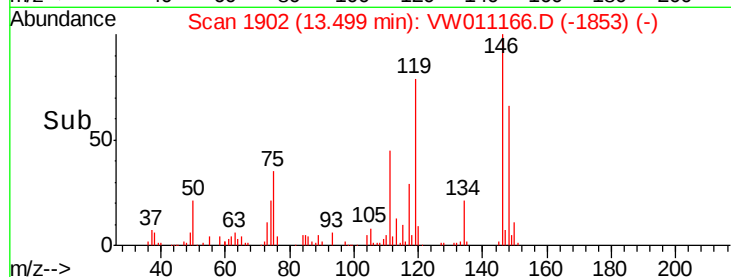
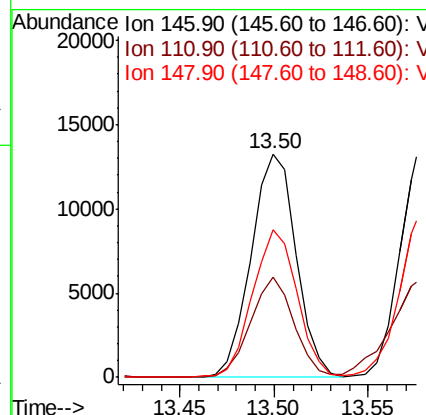
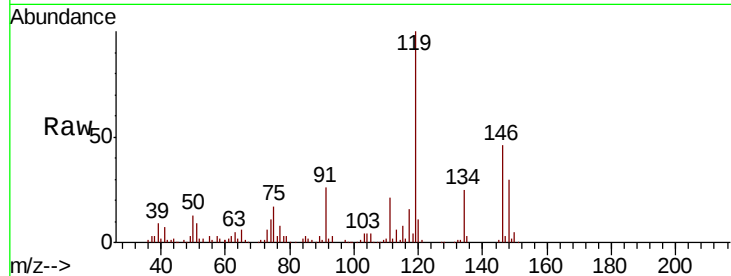




#87
 1,3-Dichlorobenzene
 Concen: 3.908 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

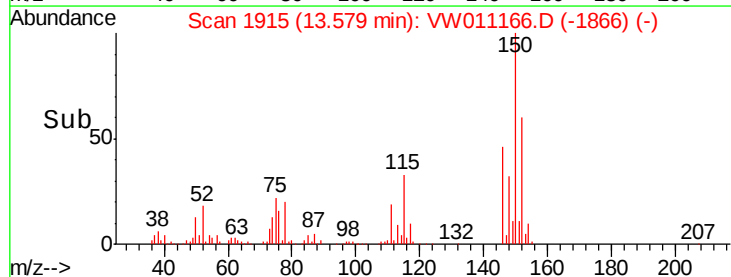
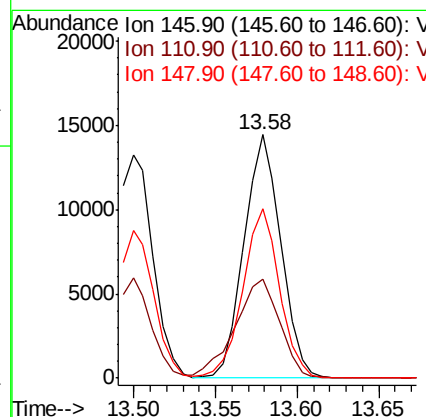
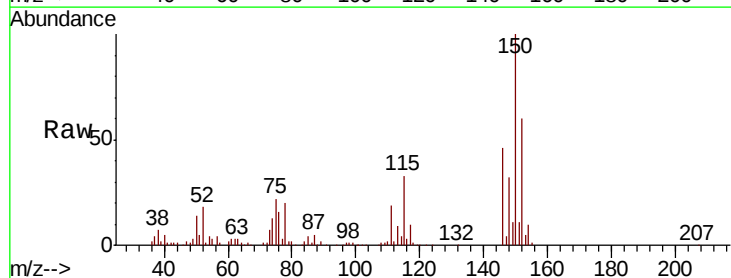
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

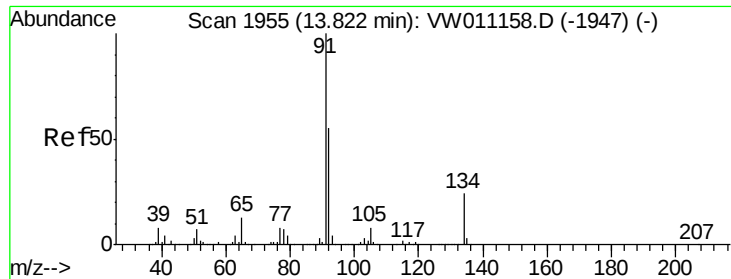
Tot Ion:146 Resp: 21944
 Ion Ratio Lower Upper
 146 100
 111 43.3 21.1 63.1
 148 65.7 32.6 97.7



#88
 1,4-Dichlorobenzene
 Concen: 4.016 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Tgt Ion:146 Resp: 22710
 Ion Ratio Lower Upper
 146 100
 111 49.7 19.9 59.7
 148 69.5 31.5 94.5





#89

n-Butylbenzene

Concen: 3.779 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VW011166.D

Acq: 08 Jul 2019 17:40

Instrument :

MSVOA_W

ClientSampleId :

LOD-MDL-SOIL-01-QT3-2019

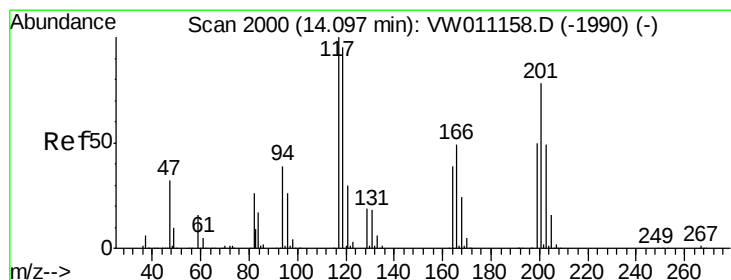
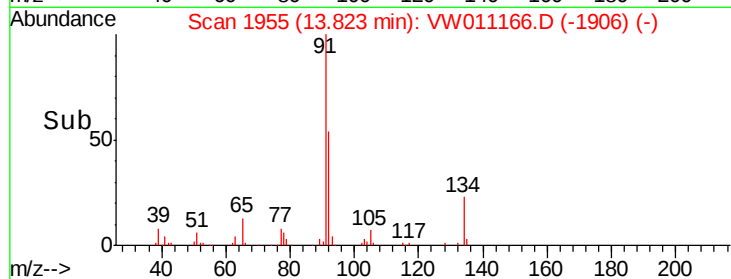
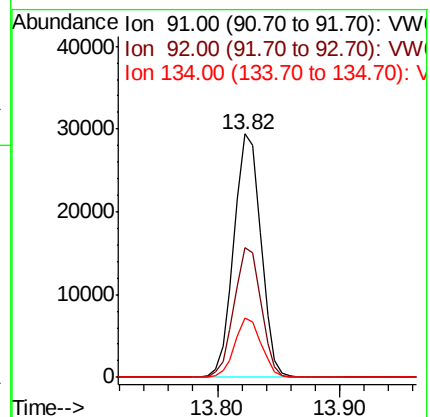
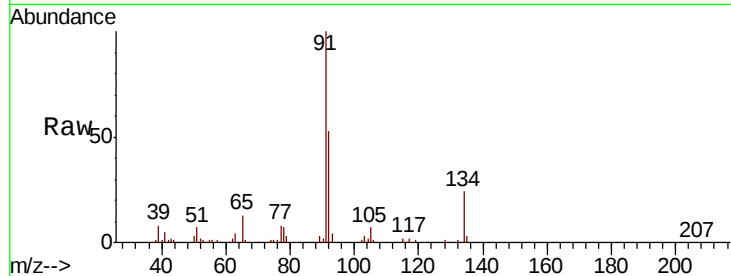
Tot Ion: 91 Resp: 44958

Ion Ratio Lower Upper

91 100

92 53.2 26.9 80.7

134 23.8 12.2 36.4



#90

Hexachloroethane

Concen: 3.562 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. 0.00 min

Lab File: VW011166.D

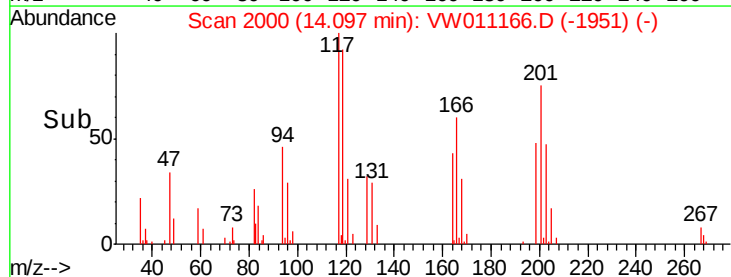
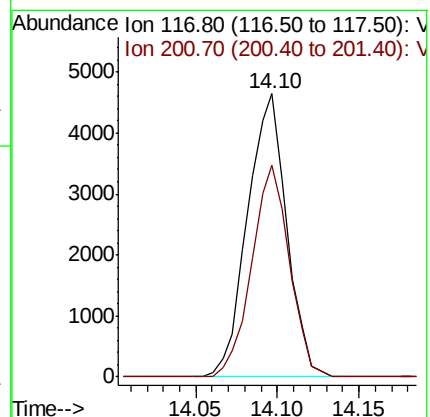
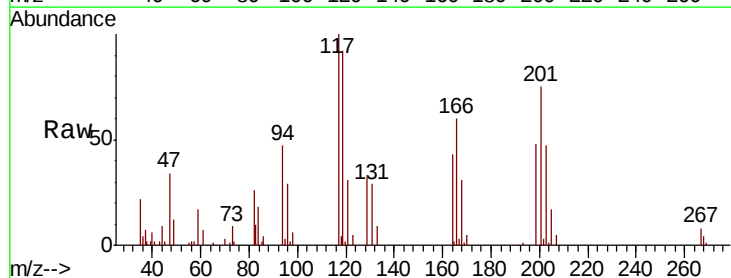
Acq: 08 Jul 2019 17:40

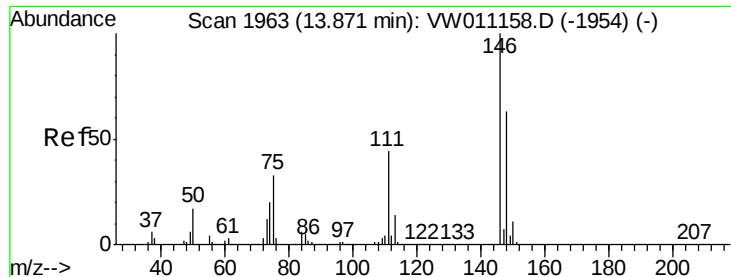
Tgt Ion: 117 Resp: 7763

Ion Ratio Lower Upper

117 100

201 72.1 38.3 114.8

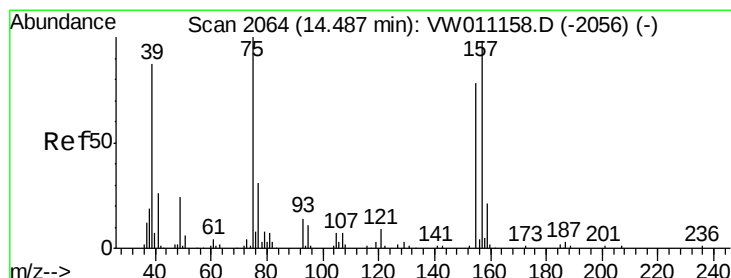
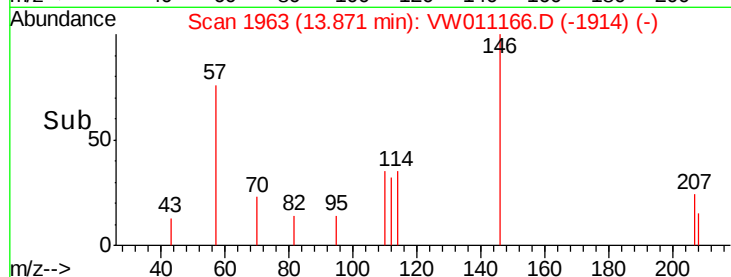
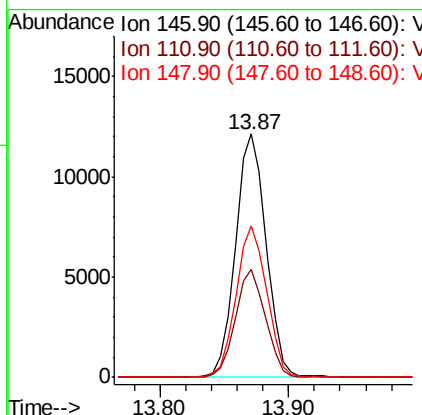
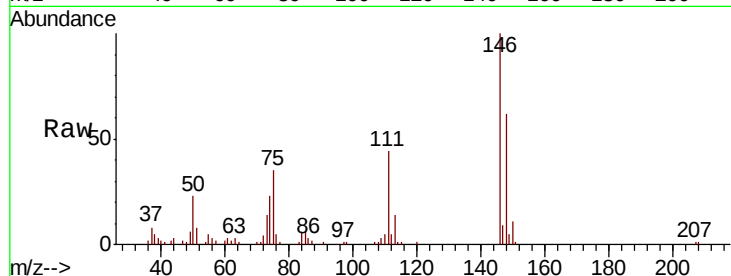




#91
 1,2-Dichlorobenzene
 Concen: 3.920 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

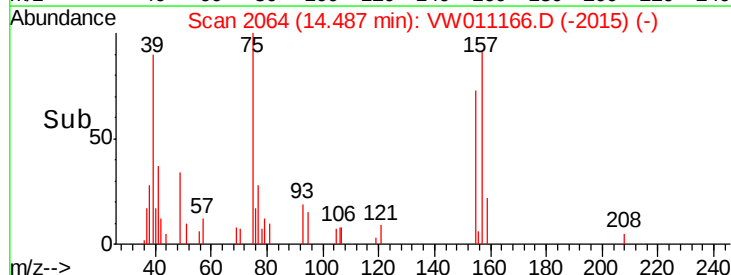
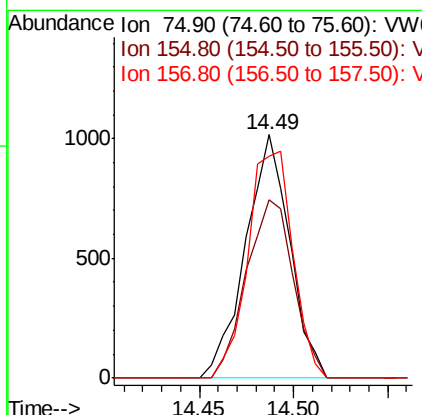
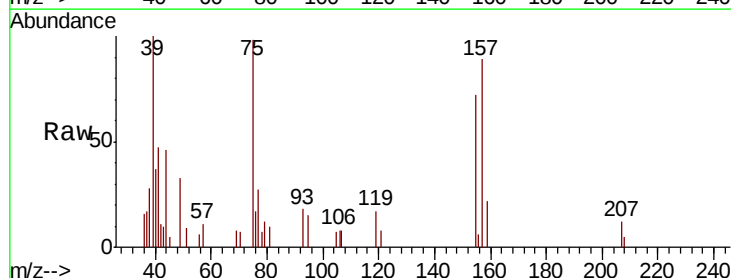
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

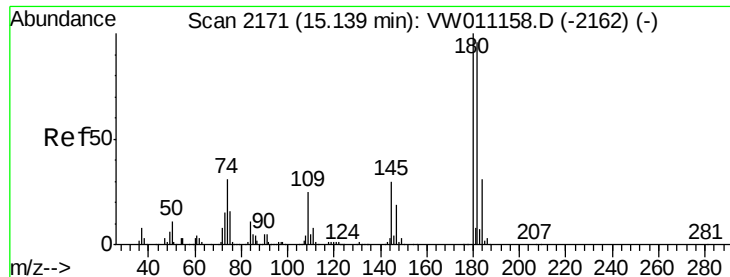
Tot Ion:146 Resp: 19973
 Ion Ratio Lower Upper
 146 100
 111 43.4 21.6 65.0
 148 62.1 31.9 95.5



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.491 ug/l
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Tgt Ion: 75 Resp: 1651
 Ion Ratio Lower Upper
 75 100
 155 77.9 37.1 111.3
 157 95.0 48.5 145.6

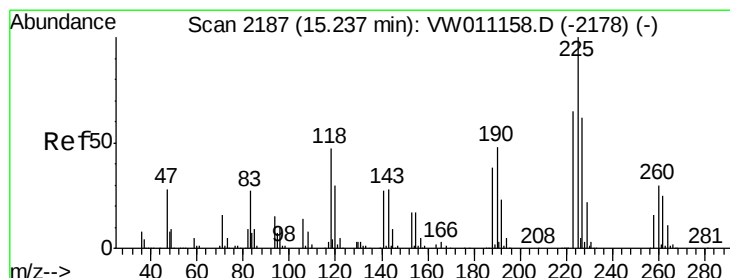
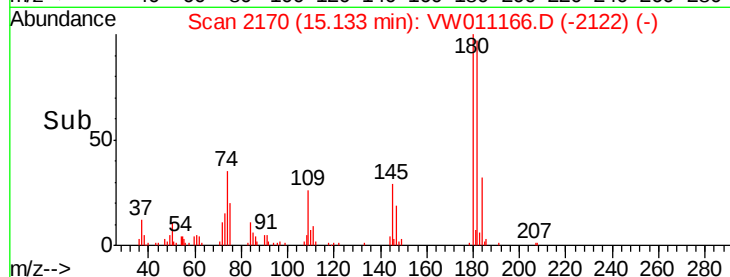
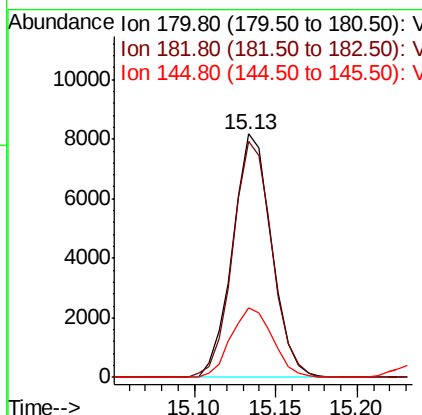
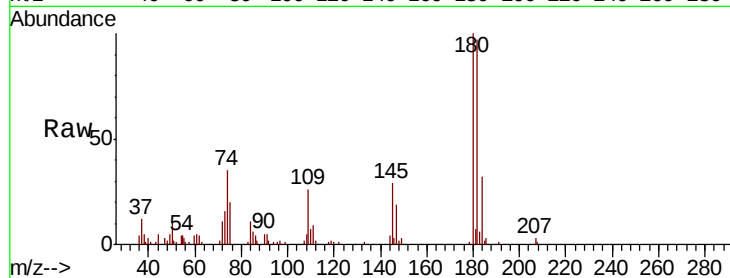




#93
 1,2,4-Trichlorobenzene
 Concen: 3.864 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.01 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

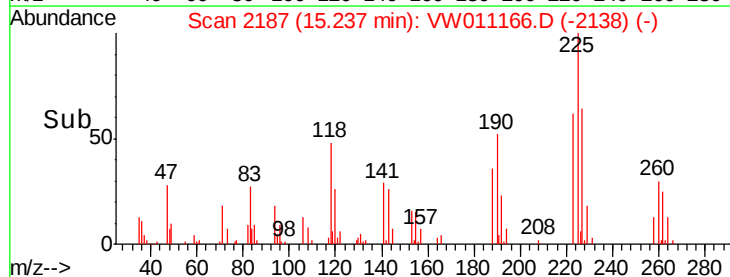
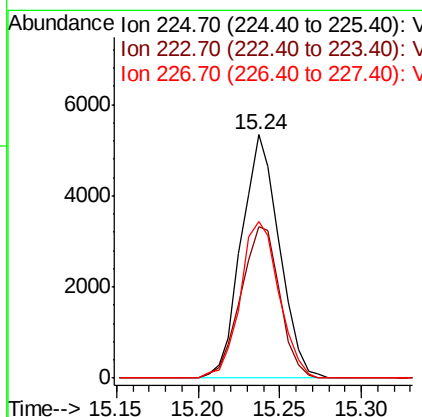
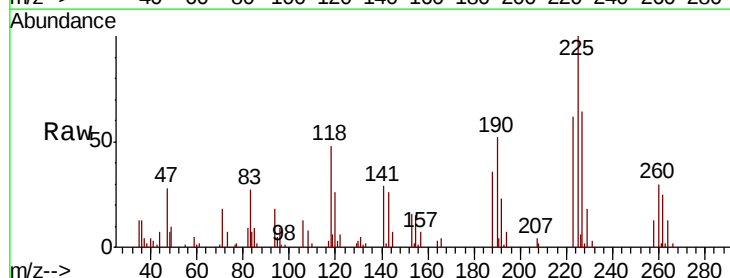
Instrument :
 MSVOA_W
 ClientSampleId :
 LOD-MDL-SOIL-01-QT3-2019

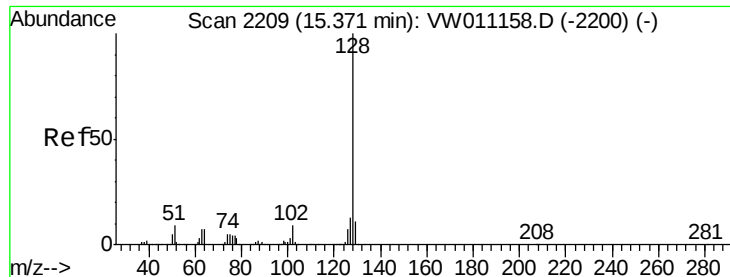
Tot Ion:180 Resp: 13559
 Ion Ratio Lower Upper
 180 100
 182 97.4 48.3 144.9
 145 30.5 15.5 46.5



#94
 Hexachlorobutadiene
 Concen: 4.021 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. 0.00 min
 Lab File: VW011166.D
 Acq: 08 Jul 2019 17:40

Tgt Ion:225 Resp: 8663
 Ion Ratio Lower Upper
 225 100
 223 63.6 31.6 95.0
 227 65.4 32.0 96.0

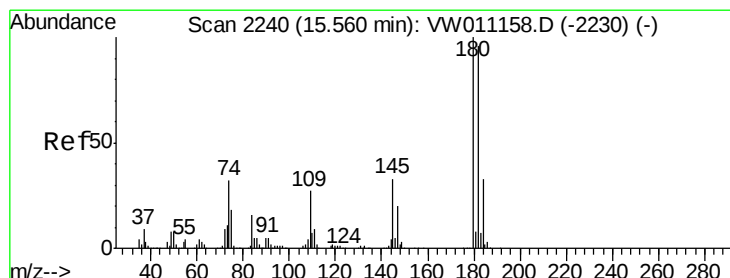
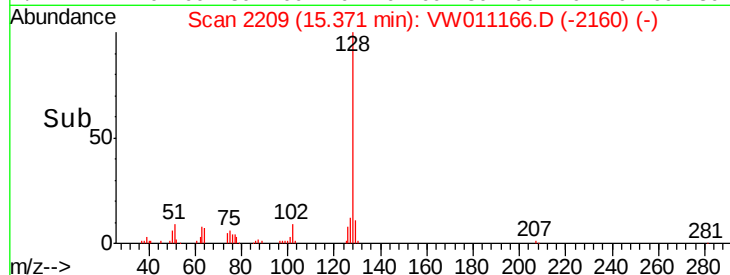
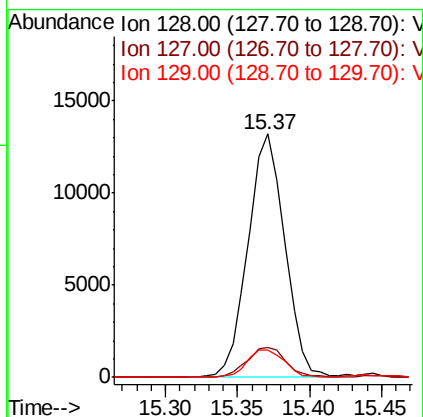
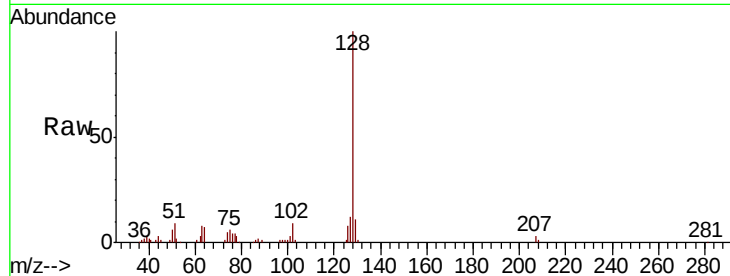




#95
Naphthalene
Concen: 3.475 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Instrument :
MSVOA_W
ClientSampleId :
LOD-MDL-SOIL-01-QT3-2019

Tot Ion:128 Resp: 23364
Ion Ratio Lower Upper
128 100
127 13.2 10.6 16.0
129 11.6 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 4.030 ug/l
RT: 15.56 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VW011166.D
Acq: 08 Jul 2019 17:40

Tgt Ion:180 Resp: 12482
Ion Ratio Lower Upper
180 100
182 92.7 47.6 142.8
145 32.0 16.5 49.5

