

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW022519\
 Data File : VW008818.D
 Acq On : 25 Feb 2019 20:16
 Operator : SY/VA
 Sample : K1560-02L0010PPB
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

Quant Time: Feb 26 04:55:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W022119S.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 22 00:38:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	288046	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	422055	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	414223	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	232308	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	149843	55.46	ug/l	0.00
Spiked Amount			Recovery	=	110.92%	
35) Dibromofluoromethane	7.88	113	138387	54.61	ug/l	0.00
Spiked Amount			Recovery	=	109.22%	
50) Toluene-d8	10.32	98	557872	57.03	ug/l	0.00
Spiked Amount			Recovery	=	114.06%	
62) 4-Bromofluorobenzene	12.62	95	218777	57.12	ug/l	0.00
Spiked Amount			Recovery	=	114.24%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	28752	9.966	ug/l	95
3) Chloromethane	2.21	50	34956	9.954	ug/l	98
4) Vinyl Chloride	2.36	62	34987	9.410	ug/l	94
5) Bromomethane	2.76	94	30164	10.922	ug/l	93
6) Chloroethane	2.91	64	26232	9.935	ug/l	98
7) Trichlorofluoromethane	3.26	101	47304	10.059	ug/l	95
8) Diethyl Ether	3.68	74	14479	9.725	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	4.06	101	29296	10.259	ug/l	99
10) Methyl Iodide	4.27	142	28495	7.979	ug/l	96
11) Tert butyl alcohol	5.17	59	12301	51.144	ug/l #	89
12) 1,1-Dichloroethene	4.04	96	25570	10.139	ug/l	98
13) Acrolein	3.90	56	9644	54.787	ug/l	90
14) Allyl chloride	4.67	41	43998	10.108	ug/l	97
15) Acrylonitrile	5.37	53	32130	50.286	ug/l	99
16) Acetone	4.13	43	27666	44.180	ug/l	94
17) Carbon Disulfide	4.38	76	78498	9.381	ug/l	100
18) Methyl Acetate	4.68	43	13807	9.296	ug/l	96
19) Methyl tert-butyl Ether	5.43	73	67840	9.938	ug/l	99
20) Methylene Chloride	4.92	84	36721	7.568	ug/l	94
21) trans-1,2-Dichloroethene	5.43	96	29846	10.231	ug/l	95
22) Diisopropyl ether	6.31	45	91575	10.546	ug/l #	86
23) Vinyl Acetate	6.26	43	259038	48.284	ug/l	99
24) 1,1-Dichloroethane	6.21	63	50249	9.987	ug/l	97
25) 2-Butanone	7.17	43	41588	47.503	ug/l	97
26) 2,2-Dichloropropane	7.17	77	44434	9.727	ug/l	98
27) cis-1,2-Dichloroethene	7.18	96	33202	10.639	ug/l	97
28) Bromochloromethane	7.51	49	22037	10.466	ug/l	94
29) Tetrahydrofuran	7.52	42	26832	48.093	ug/l	98
30) Chloroform	7.68	83	54693	10.596	ug/l	95
31) Cyclohexane	7.95	56	52151	10.239	ug/l #	92
32) 1,1,1-Trichloroethane	7.87	97	48066	10.239	ug/l	98
36) 1,1-Dichloropropene	8.08	75	40950	9.967	ug/l	98
37) Ethyl Acetate	7.26	43	19107	10.001	ug/l #	95
38) Carbon Tetrachloride	8.07	117	41844	9.658	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.33	83	47926	9.352	ug/l	98
40) Benzene	8.32	78	114676	10.223	ug/l	94
41) Methacrylonitrile	7.48	41	9063	8.070	ug/l	94
42) 1,2-Dichloroethane	8.40	62	35884	10.099	ug/l	98
43) Isopropyl Acetate	8.42	43	36933	9.686	ug/l	98
44) Trichloroethene	9.09	130	33384	10.565	ug/l	97
45) 1,2-Dichloropropane	9.37	63	29026	10.471	ug/l	96
46) Dibromomethane	9.46	93	15463	10.029	ug/l	99
47) Bromodichloromethane	9.65	83	37055	9.878	ug/l	94
48) Methyl methacrylate	9.44	41	17213	9.426	ug/l	98
49) 1,4-Dioxane	9.45	88	5435	220.115	ug/l	95
51) 4-Methyl-2-Pentanone	10.21	43	91403	47.216	ug/l	99
52) Toluene	10.39	92	81443	10.698	ug/l	97
53) t-1,3-Dichloropropene	10.60	75	35736	9.346	ug/l	96
54) cis-1,3-Dichloropropene	10.07	75	43466	9.967	ug/l	97
55) 1,1,2-Trichloroethane	10.79	97	22276	10.653	ug/l	96
56) Ethyl methacrylate	10.65	69	26506	9.757	ug/l	97
57) 1,3-Dichloropropane	10.93	76	37601	10.185	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.92	63	67553	49.441	ug/l	100
59) 2-Hexanone	10.97	43	62585	45.416	ug/l	99
60) Dibromochloromethane	11.13	129	24612	9.650	ug/l	97
61) 1,2-Dibromoethane	11.24	107	20758	10.029	ug/l	98
64) Tetrachloroethene	10.86	164	31218	10.529	ug/l	95
65) Chlorobenzene	11.66	112	90889	10.435	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.73	131	29334	9.960	ug/l	98
67) Ethyl Benzene	11.73	91	156309	10.039	ug/l	99
68) m/p-Xylenes	11.84	106	125389	20.155	ug/l	99
69) o-Xylene	12.16	106	58797	10.069	ug/l	100
70) Styrene	12.18	104	91302	9.719	ug/l	99
71) Bromoform	12.35	173	14866	9.391	ug/l #	96
73) Isopropylbenzene	12.46	105	154804	9.720	ug/l	97
74) N-amyl acetate	12.27	43	36757	9.163	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.71	83	24696	9.490	ug/l	97
76) 1,2,3-Trichloropropane	12.77	75	21225m	11.066	ug/l	
77) Bromobenzene	12.74	156	39996	10.628	ug/l	96
78) n-propylbenzene	12.80	91	194642	9.991	ug/l	98
79) 2-Chlorotoluene	12.89	91	114488	10.351	ug/l	100
80) 1,3,5-Trimethylbenzene	12.94	105	139205	10.058	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.51	75	6752	8.558	ug/l	98
82) 4-Chlorotoluene	12.99	91	118639	10.179	ug/l	99
83) tert-Butylbenzene	13.21	119	117754	9.840	ug/l	99
84) 1,2,4-Trimethylbenzene	13.26	105	142592	9.953	ug/l	99
85) sec-Butylbenzene	13.38	105	168668	9.802	ug/l	99
86) p-Isopropyltoluene	13.50	119	151909	9.630	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	79664	10.203	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	80875	10.509	ug/l	98
89) n-Butylbenzene	13.83	91	142861	9.667	ug/l	99
90) Hexachloroethane	14.10	117	24738	9.580	ug/l	100
91) 1,2-Dichlorobenzene	13.87	146	71142	10.226	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	4635	9.847	ug/l	96

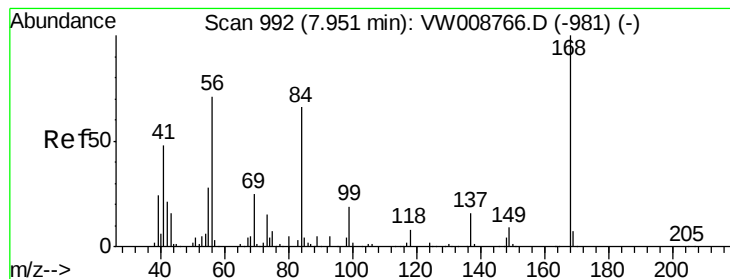
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW022519\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	52811	10.535	ug/l	100
94) Hexachlorobutadiene	15.24	225	30867	10.454	ug/l	99
95) Naphthalene	15.37	128	79132	9.272	ug/l	100
96) 1,2,3-Trichlorobenzene	15.56	180	44408	10.246	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

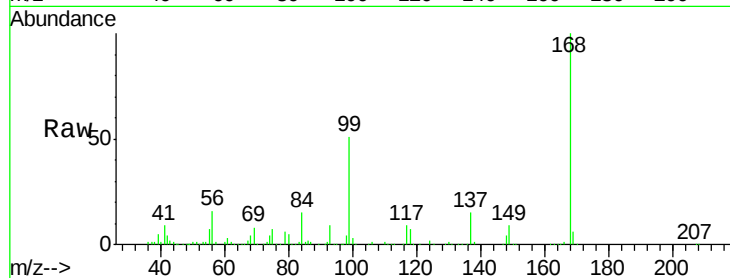
LOQ-SOIL-02-QT1-2019

Tot Ion:168 Resp: 288046

Ion Ratio Lower Upper

168 100

99 50.8 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

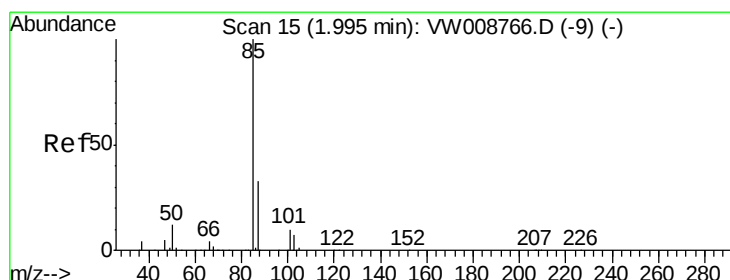
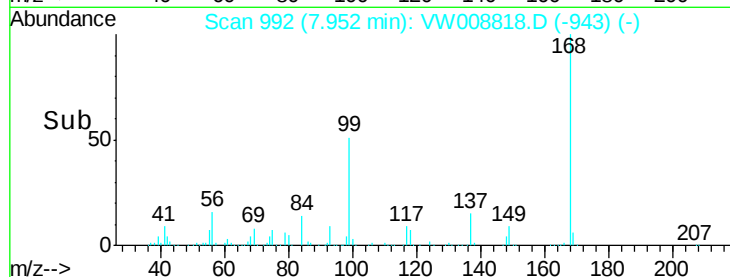
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: 9.966 ug/l

RT: 2.00 min Scan# 16

Delta R.T. 0.01 min

Lab File: VW008818.D

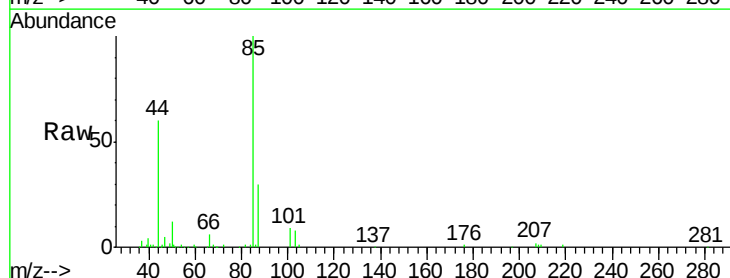
Acq: 25 Feb 2019 20:16

Tgt Ion: 85 Resp: 28752

Ion Ratio Lower Upper

85 100

87 29.8 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

20000

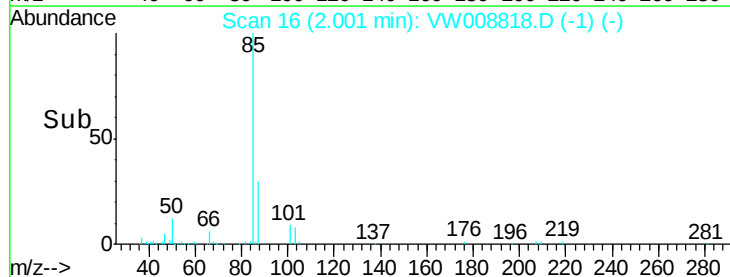
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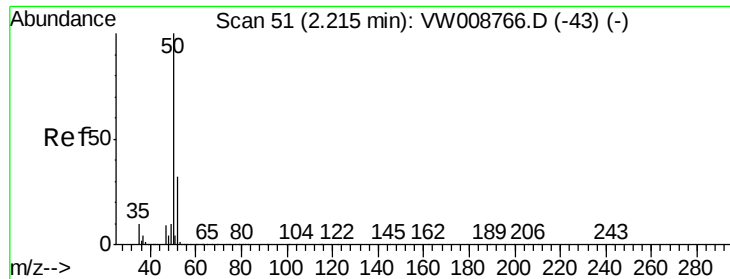
10000

5000

0

Time--> 1.95 2.00 2.05 2.10





#3

Chloromethane

Concen: 9.954 ug/l

RT: 2.21 min Scan# 51

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

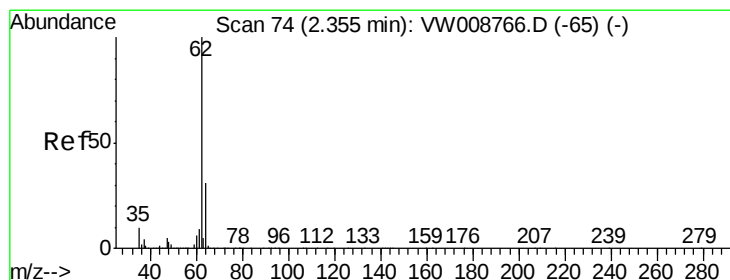
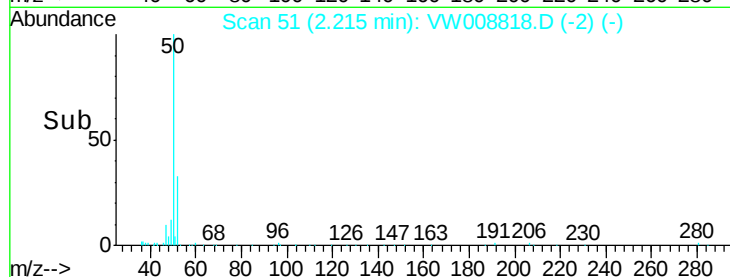
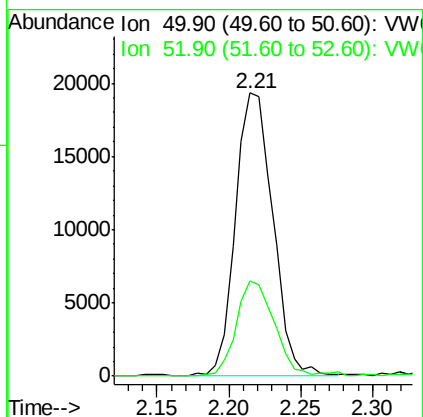
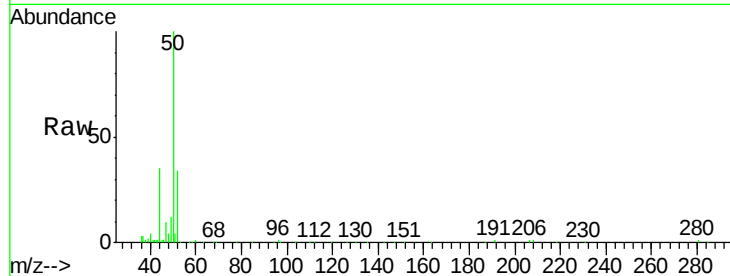
LOQ-SOIL-02-QT1-2019

Tot Ion: 50 Resp: 34956

Ion Ratio Lower Upper

50 100

52 33.8 25.9 38.9



#4

Vinyl Chloride

Concen: 9.410 ug/l

RT: 2.36 min Scan# 74

Delta R.T. 0.00 min

Lab File: VW008818.D

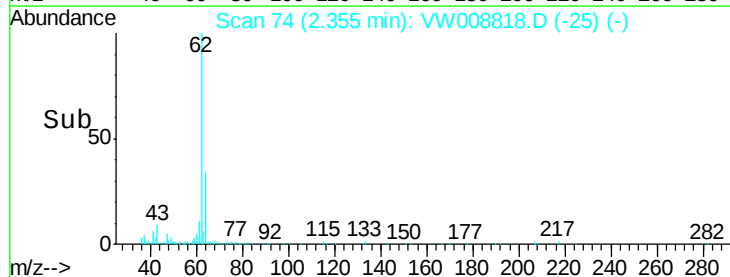
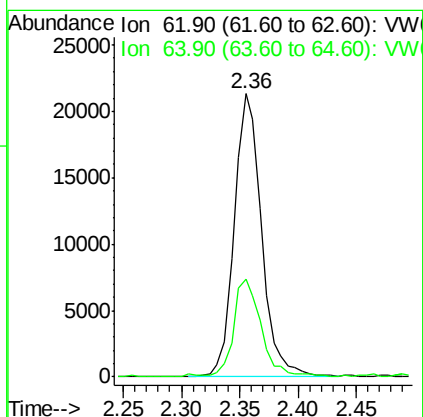
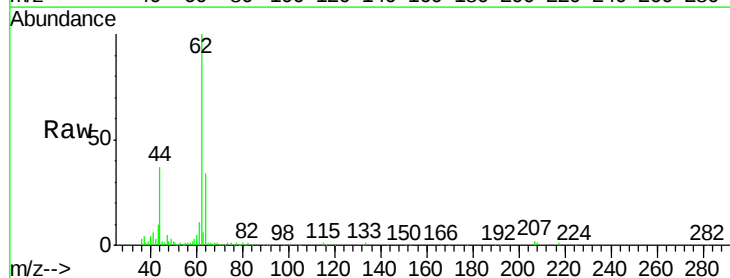
Acq: 25 Feb 2019 20:16

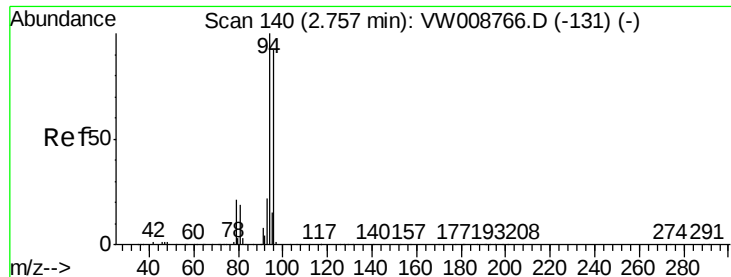
Tgt Ion: 62 Resp: 34987

Ion Ratio Lower Upper

62 100

64 34.5 24.9 37.3





#5

Bromomethane

Concen: 10.922 ug/l

RT: 2.76 min Scan# 140

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

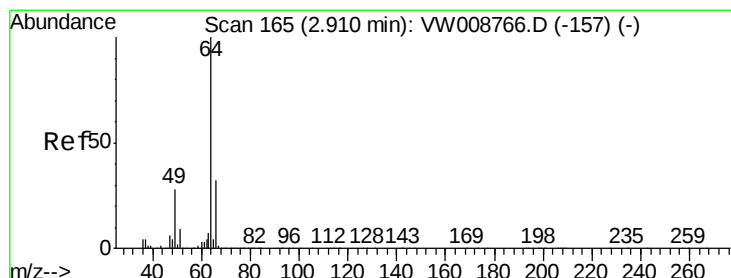
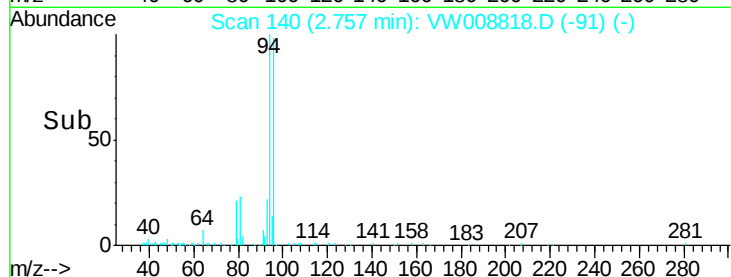
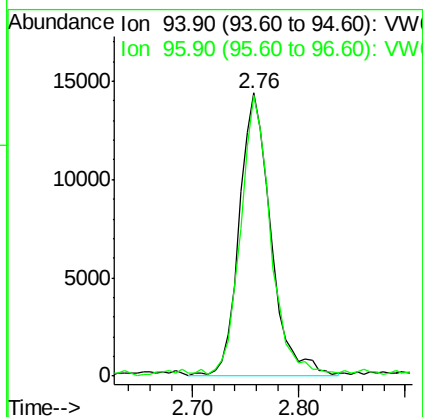
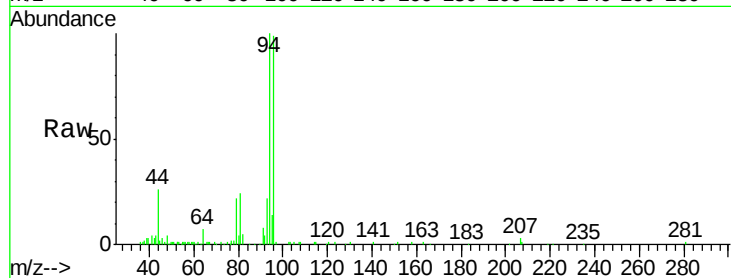
LOQ-SOIL-02-QT1-2019

Tot Ion: 94 Resp: 30164

Ion Ratio Lower Upper

94 100

96 98.3 73.4 110.2



#6

Chloroethane

Concen: 9.935 ug/l

RT: 2.91 min Scan# 165

Delta R.T. 0.00 min

Lab File: VW008818.D

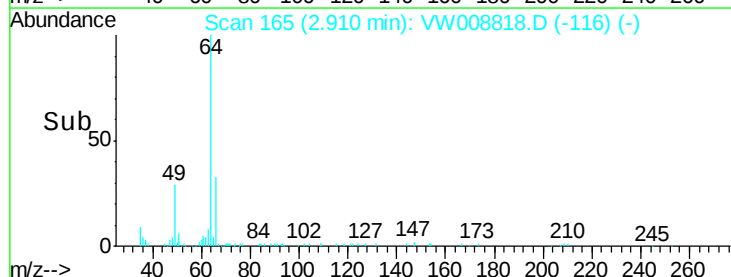
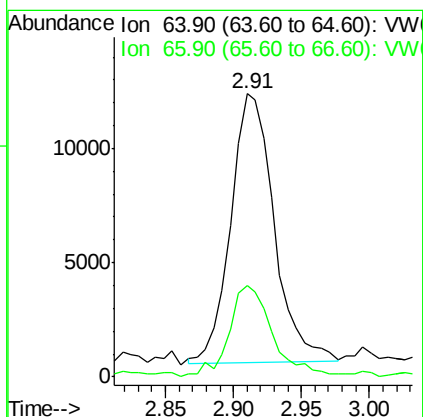
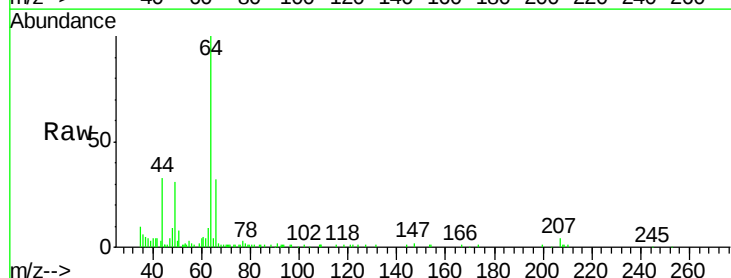
Acq: 25 Feb 2019 20:16

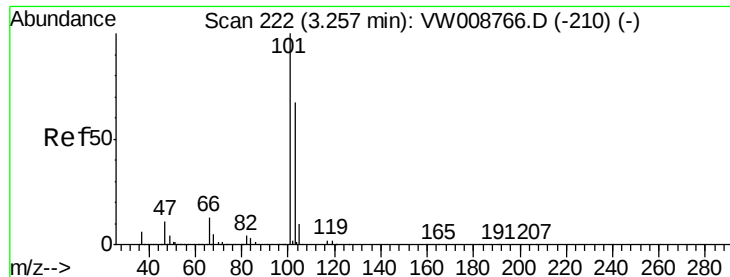
Tgt Ion: 64 Resp: 26232

Ion Ratio Lower Upper

64 100

66 33.2 25.5 38.3



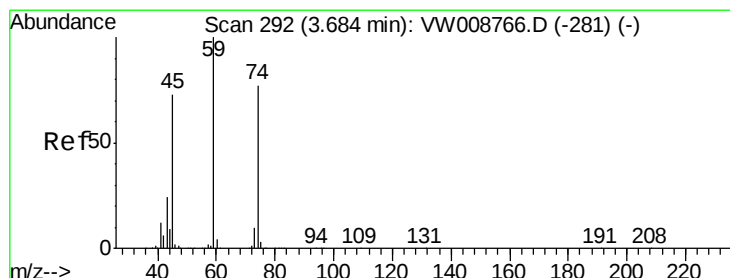
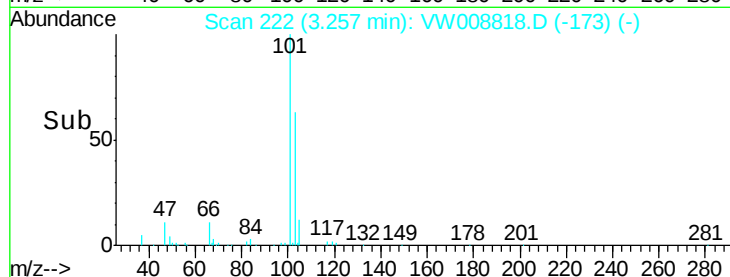
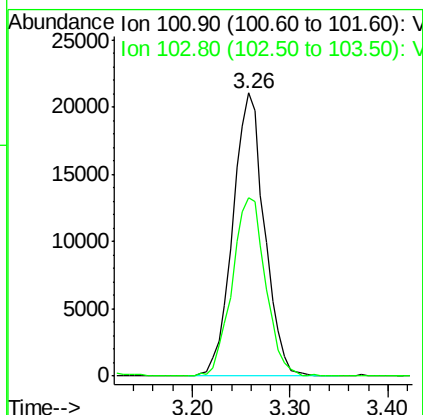
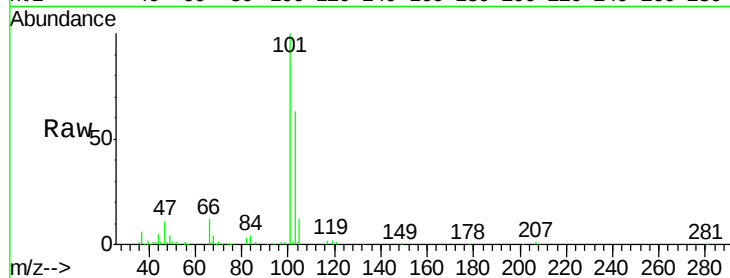


#7

Trichlorofluoromethane
 Concen: 10.059 ug/l
 RT: 3.26 min Scan# 222
 Delta R.T. 0.00 min
 Lab File: VW008818.D
 Acq: 25 Feb 2019 20:16

Instrument :
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 LOQ-SOIL-02-QT1-2019

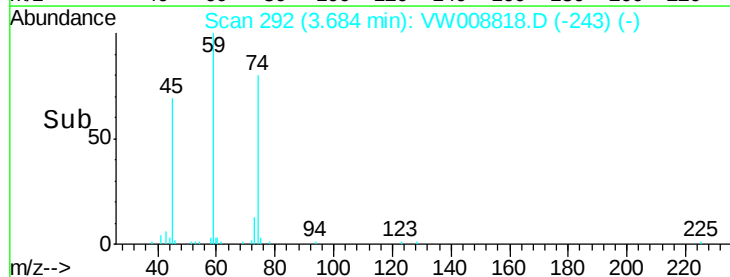
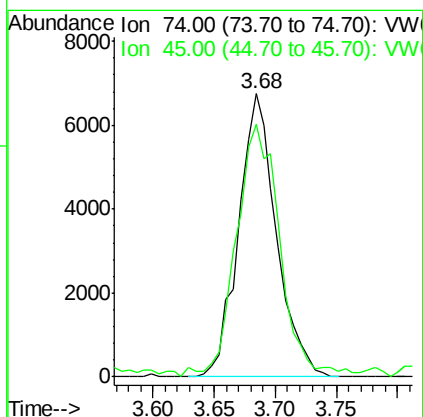
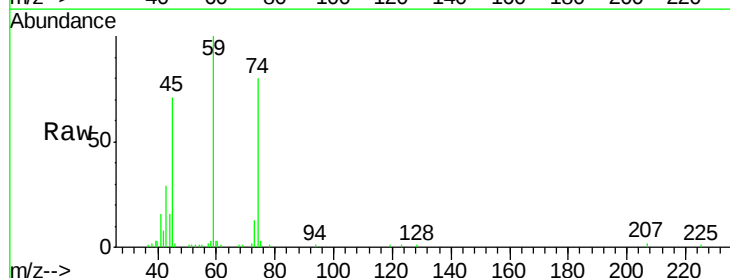
Tot Ion:101 Resp: 47304
 Ion Ratio Lower Upper
 101 100
 103 63.1 53.9 80.9

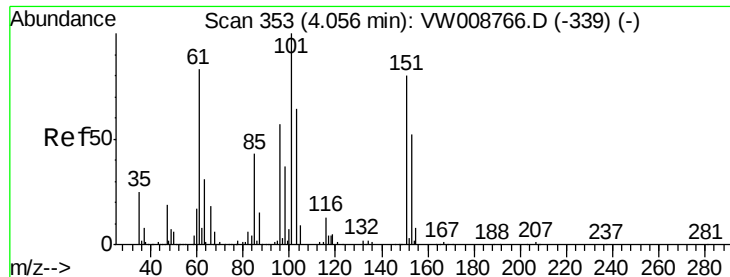


#8

Diethyl Ether
 Concen: 9.725 ug/l
 RT: 3.68 min Scan# 292
 Delta R.T. 0.00 min
 Lab File: VW008818.D
 Acq: 25 Feb 2019 20:16

Tgt Ion: 74 Resp: 14479
 Ion Ratio Lower Upper
 74 100
 45 102.9 50.2 150.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 10.259 ug/l

RT: 4.06 min Scan# 353

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2019

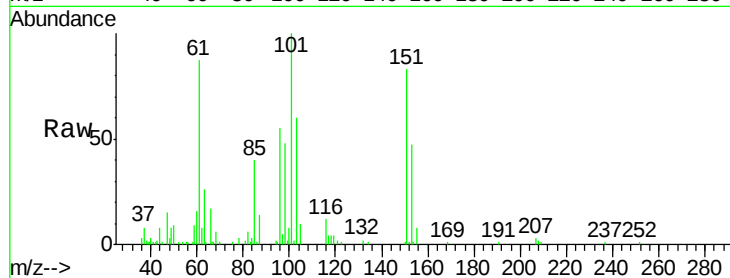
Tot Ion:101 Resp: 29296

Ion Ratio Lower Upper

101 100

85 43.5 36.0 54.0

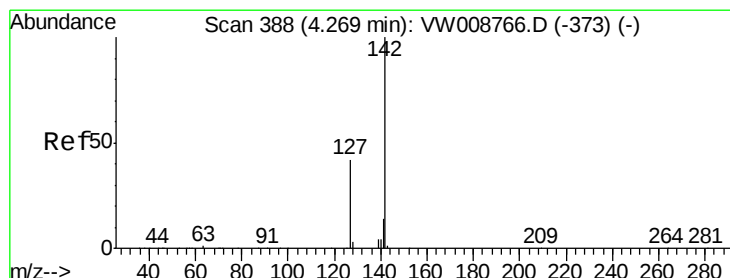
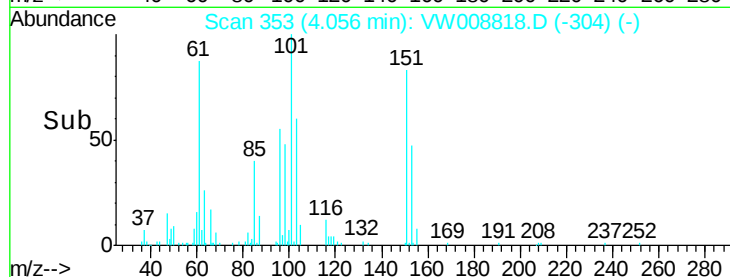
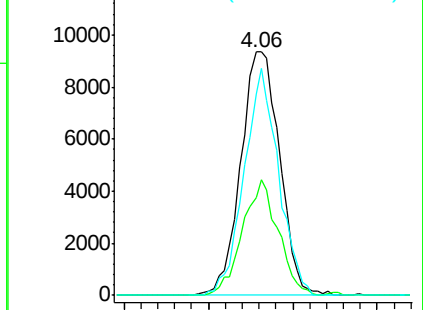
151 82.7 65.5 98.3



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VW

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 7.979 ug/l

RT: 4.27 min Scan# 388

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

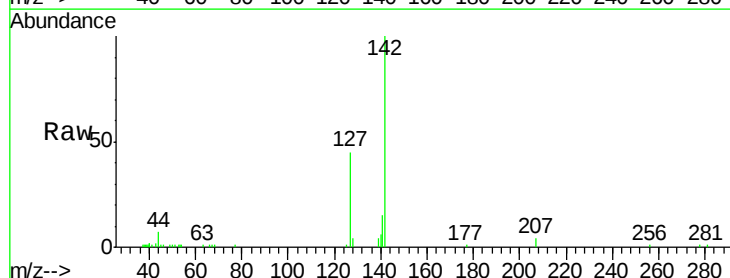
Tgt Ion:142 Resp: 28495

Ion Ratio Lower Upper

142 100

127 46.6 35.3 52.9

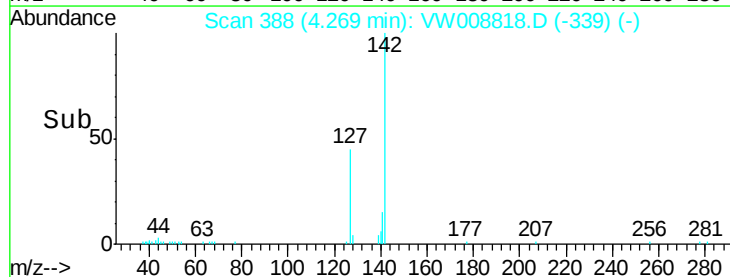
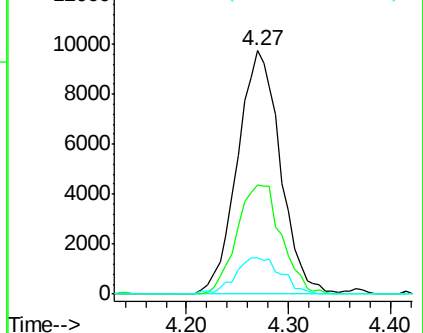
141 15.8 11.7 17.5

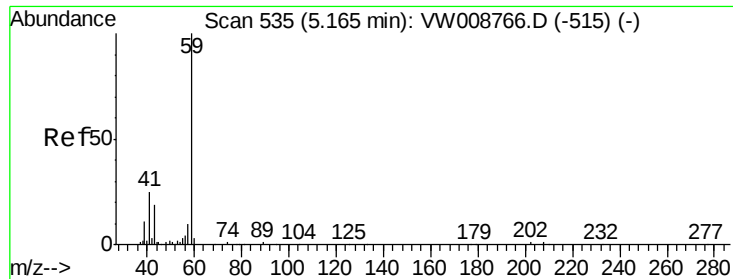


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



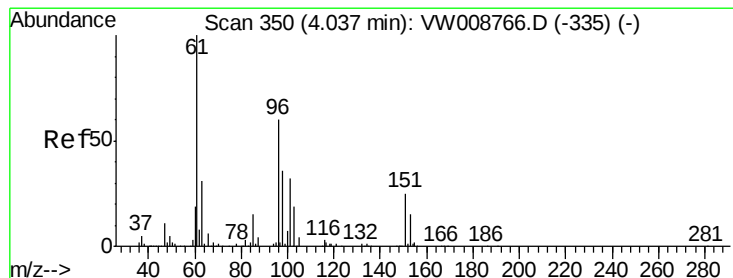
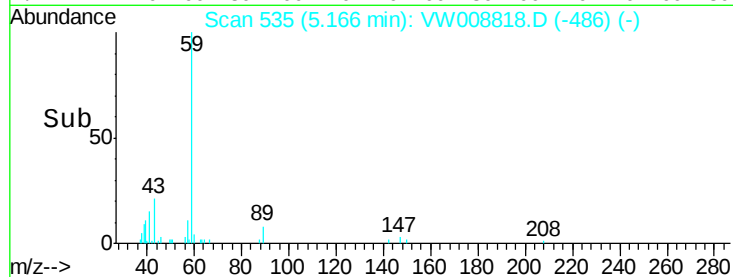
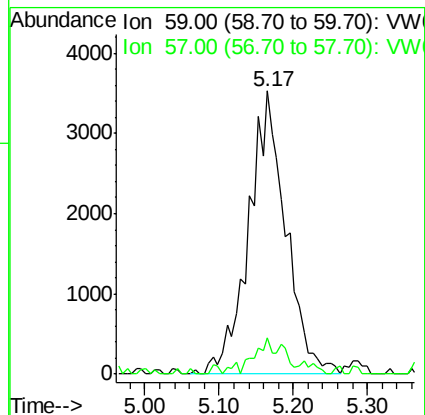
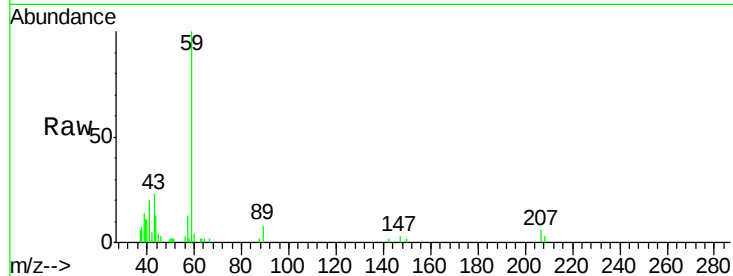


#11

Tert butyl alcohol
 Concen: 51.144 ug/l
 RT: 5.17 min Scan# 535
 Delta R.T. 0.00 min
 Lab File: VW008818.D
 Acq: 25 Feb 2019 20:16

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

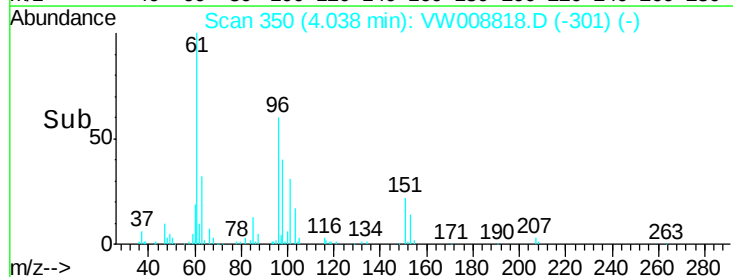
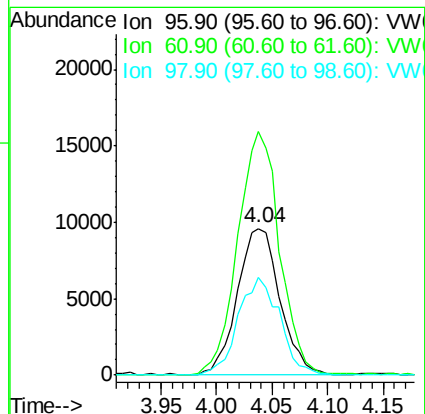
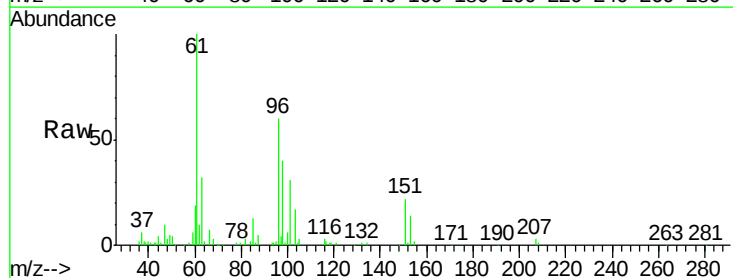
Tot Ion: 59 Resp: 12301
 Ion Ratio Lower Upper
 59 100
 57 7.3 9.3 13.9#

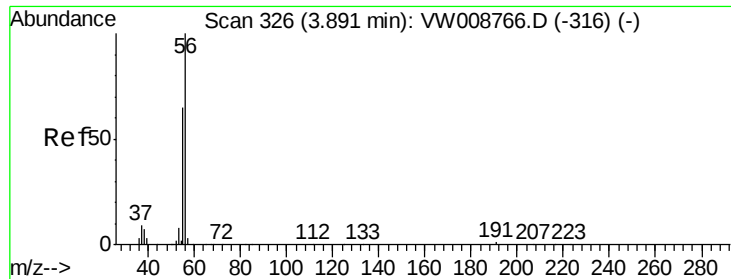


#12

1,1-Dichloroethene
 Concen: 10.139 ug/l
 RT: 4.04 min Scan# 350
 Delta R.T. 0.00 min
 Lab File: VW008818.D
 Acq: 25 Feb 2019 20:16

Tgt Ion: 96 Resp: 25570
 Ion Ratio Lower Upper
 96 100
 61 165.7 132.5 198.7
 98 66.7 48.2 72.4





#13

Acrolein

Concen: 54.787 ug/l

RT: 3.90 min Scan# 327

Delta R.T. 0.01 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

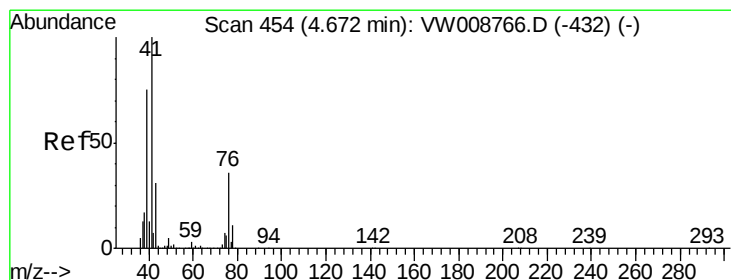
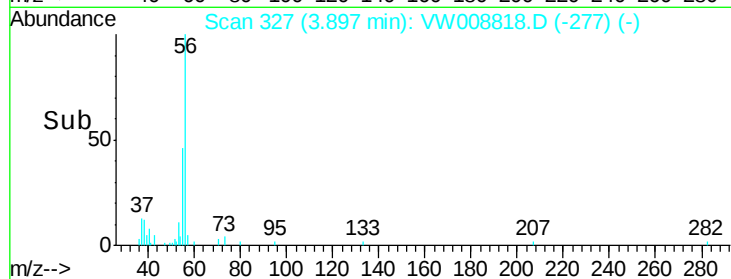
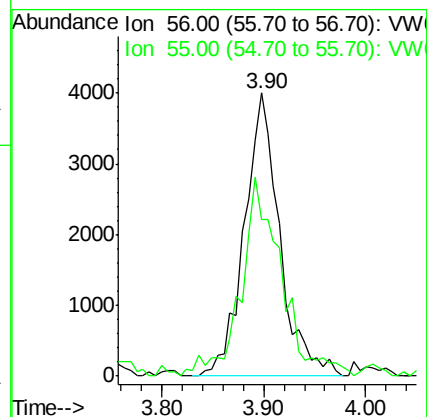
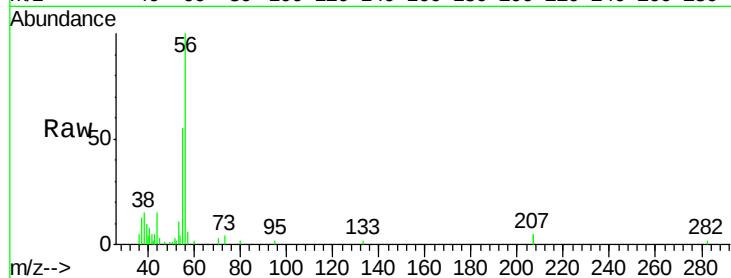
LOQ-SOIL-02-QT1-2019

Tot Ion: 56 Resp: 9644

Ion Ratio Lower Upper

56 100

55 79.6 56.9 85.3



#14

Allyl chloride

Concen: 10.108 ug/l

RT: 4.67 min Scan# 454

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

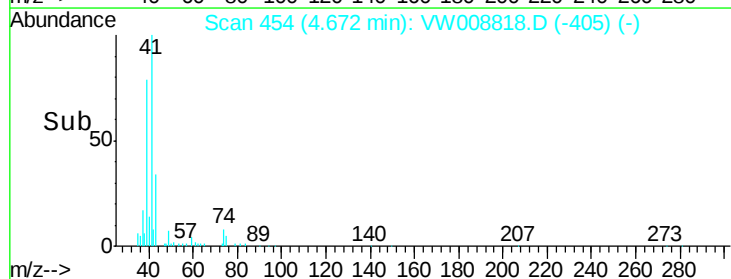
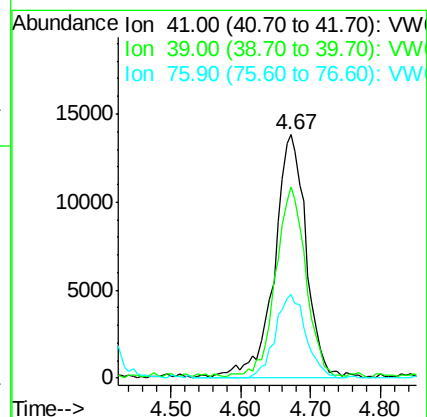
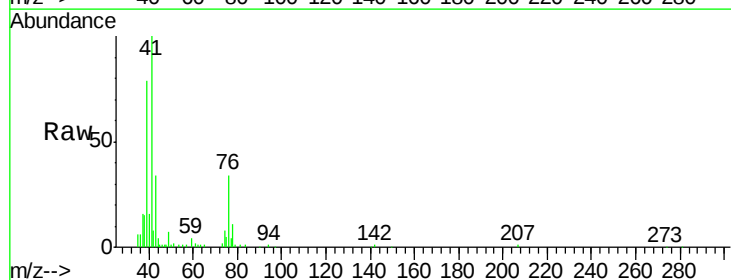
Tgt Ion: 41 Resp: 43998

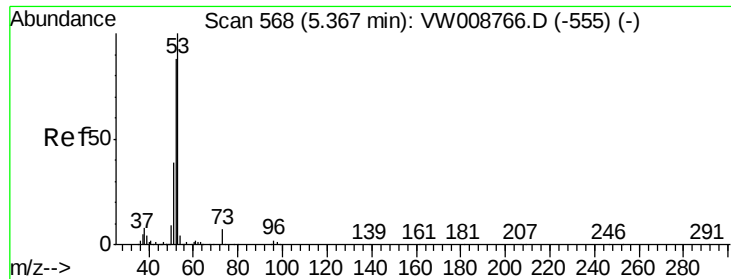
Ion Ratio Lower Upper

41 100

39 73.7 60.6 91.0

76 33.0 28.6 42.8





#15

Acrylonitrile

Concen: 50.286 ug/l

RT: 5.37 min Scan# 568

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

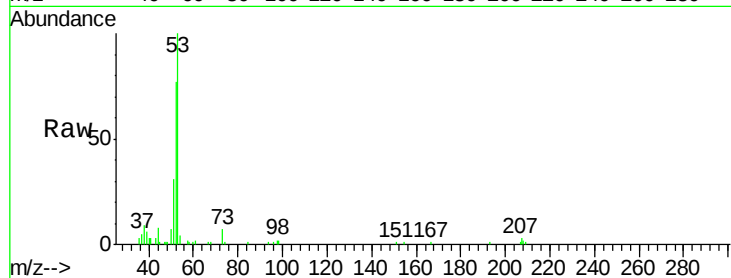
MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion: 53 Resp: 32130

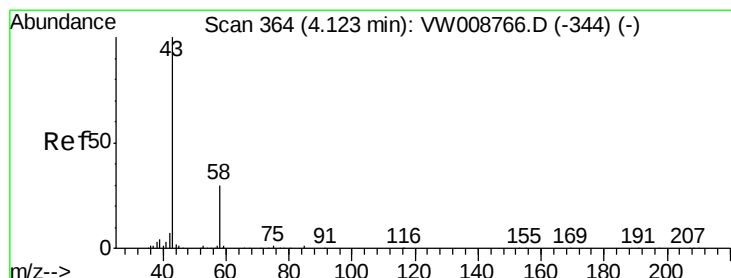
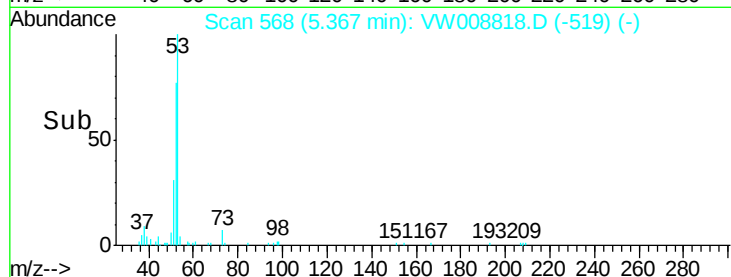
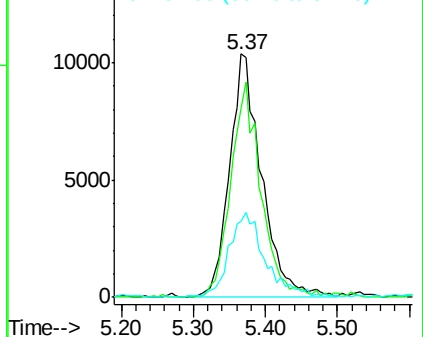
Ion	Ratio	Lower	Upper
53	100		
52	82.7	67.2	100.8
51	39.4	31.1	46.7



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: 44.180 ug/l

RT: 4.13 min Scan# 365

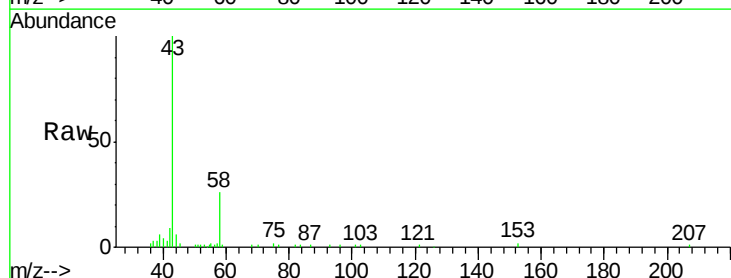
Delta R.T. 0.01 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

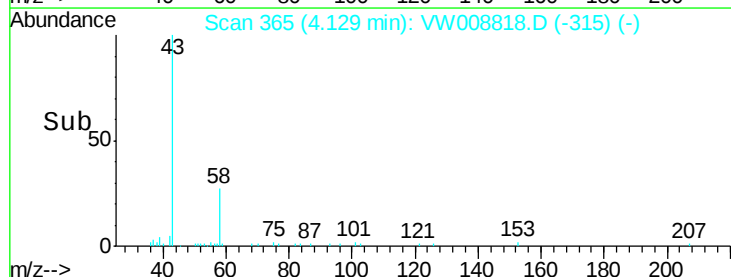
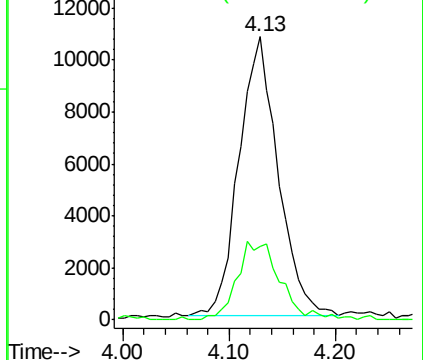
Tgt Ion: 43 Resp: 27666

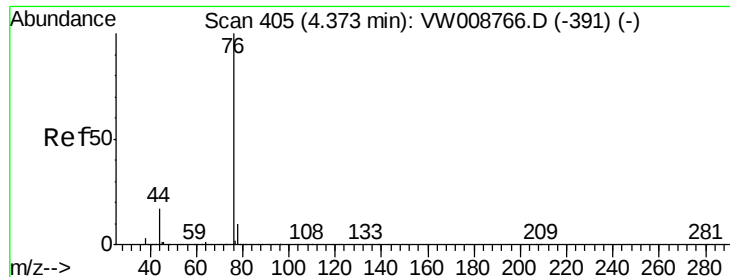
Ion	Ratio	Lower	Upper
43	100		
58	26.5	23.8	35.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#17

Carbon Disulfide

Concen: 9.381 ug/l

RT: 4.38 min Scan# 406

Delta R.T. 0.01 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

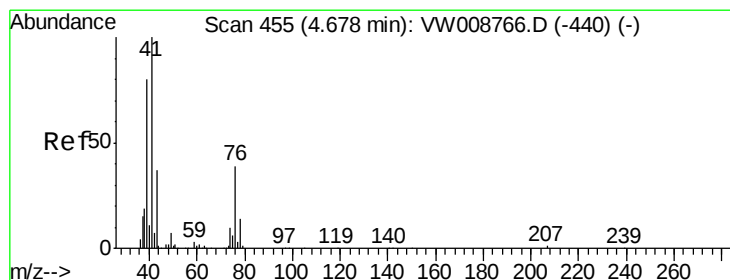
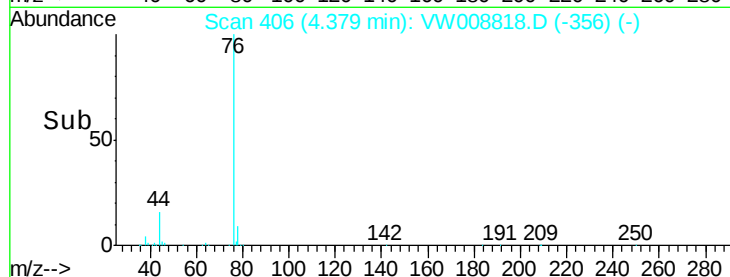
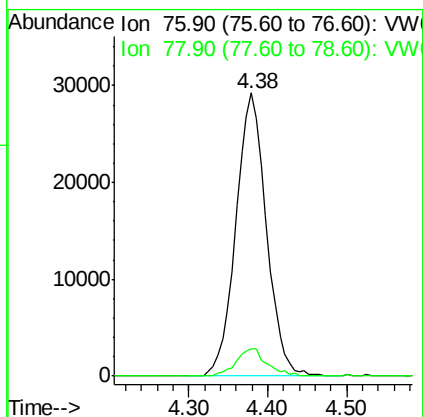
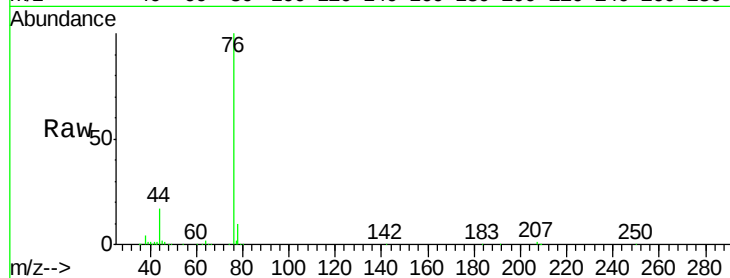
LOQ-SOIL-02-QT1-2019

Tot Ion: 76 Resp: 78498

Ion Ratio Lower Upper

76 100

78 9.8 7.8 11.8



#18

Methyl Acetate

Concen: 9.296 ug/l

RT: 4.68 min Scan# 455

Delta R.T. 0.00 min

Lab File: VW008818.D

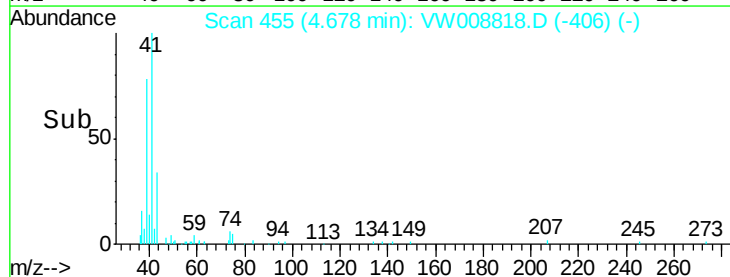
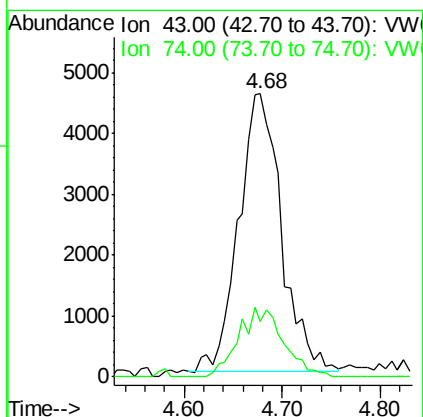
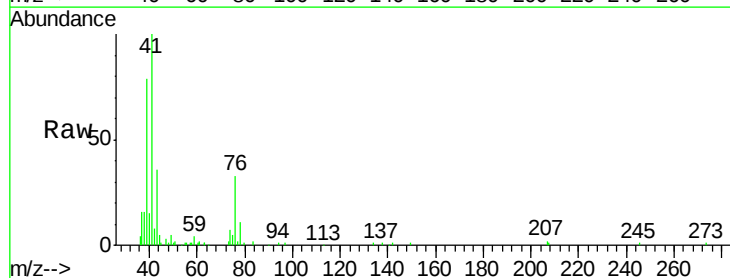
Acq: 25 Feb 2019 20:16

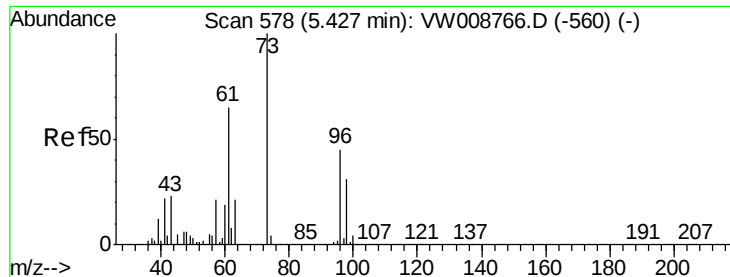
Tgt Ion: 43 Resp: 13807

Ion Ratio Lower Upper

43 100

74 26.2 19.4 29.2

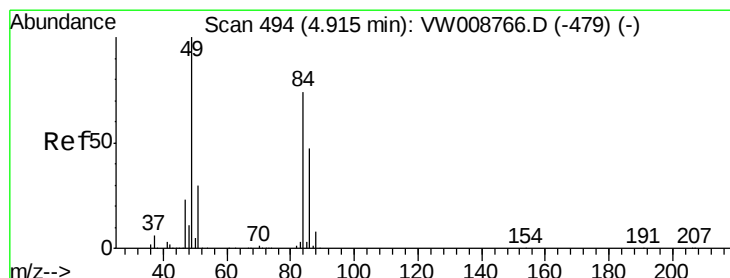
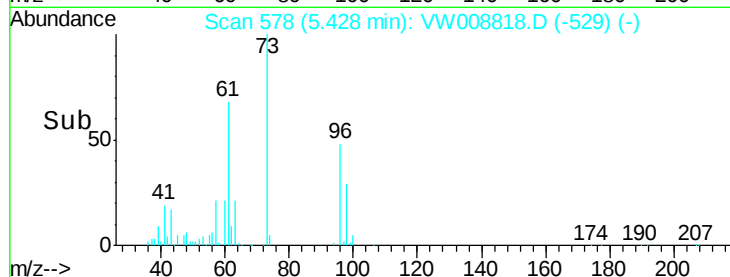
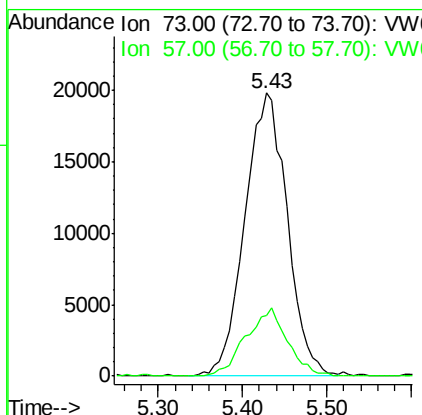
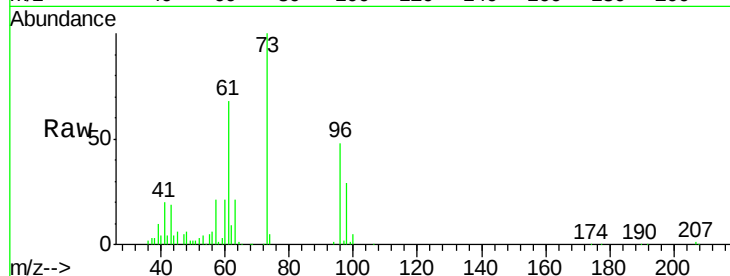




#19
Methyl tert-butyl Ether
Concen: 9.938 ug/l
RT: 5.43 min Scan# 578
Delta R.T. 0.00 min
Lab File: VW008818.D
Acq: 25 Feb 2019 20:16

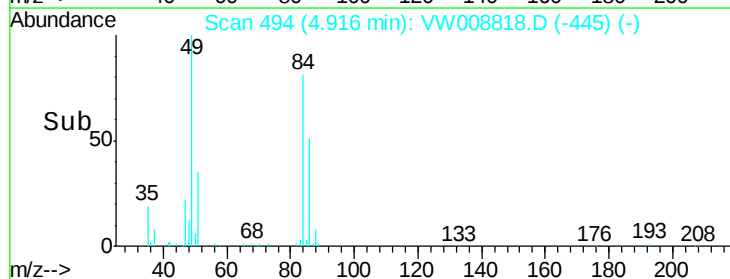
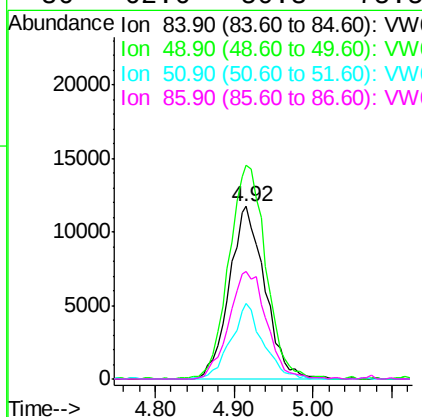
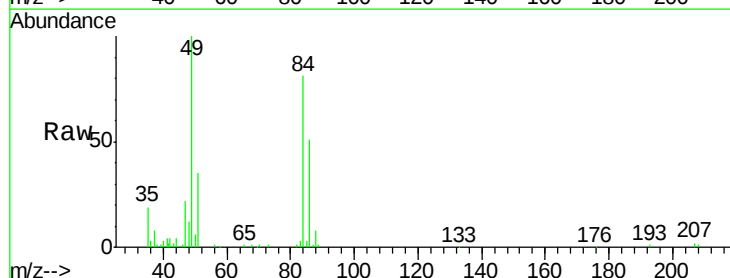
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2019

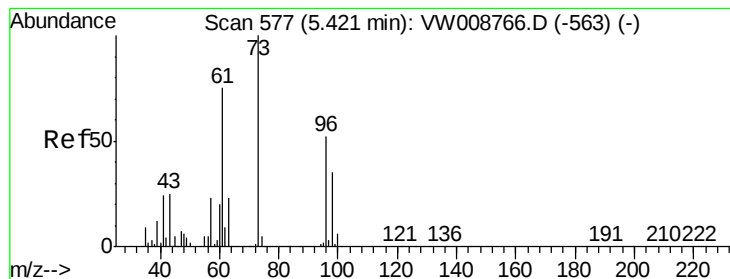
Tot Ion: 73 Resp: 67840
Ion Ratio Lower Upper
73 100
57 21.4 16.8 25.2



#20
Methylene Chloride
Concen: 7.568 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW008818.D
Acq: 25 Feb 2019 20:16

Tgt Ion: 84 Resp: 36721
Ion Ratio Lower Upper
84 100
49 123.6 108.2 162.2
51 43.5 32.7 49.1
86 62.6 50.3 75.5





#21

trans-1,2-Dichloroethene

Concen: 10.231 ug/l

RT: 5.43 min Scan# 578

Delta R.T. 0.01 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2019

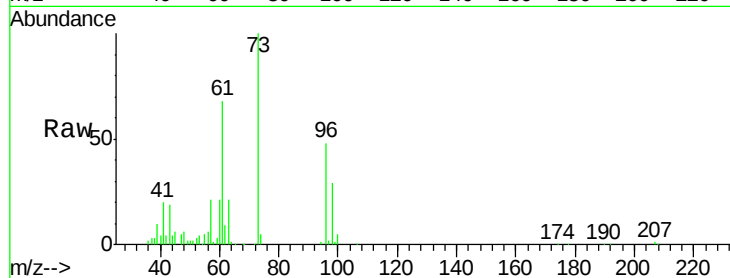
Tot Ion: 96 Resp: 29846

Ion Ratio Lower Upper

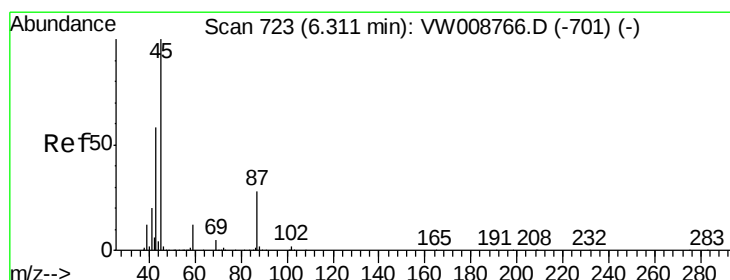
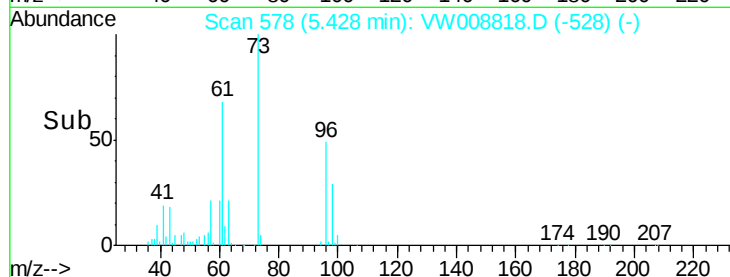
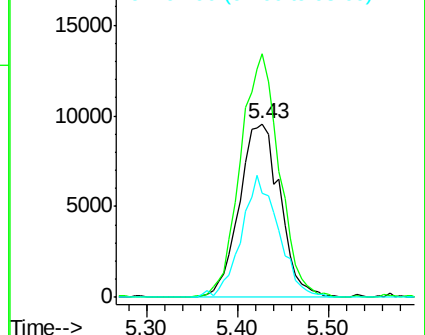
96 100

61 140.1 114.6 171.8

98 59.9 54.0 81.0



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



#22

Diisopropyl ether

Concen: 10.546 ug/l

RT: 6.31 min Scan# 722

Delta R.T. -0.01 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Tgt Ion: 45 Resp: 91575

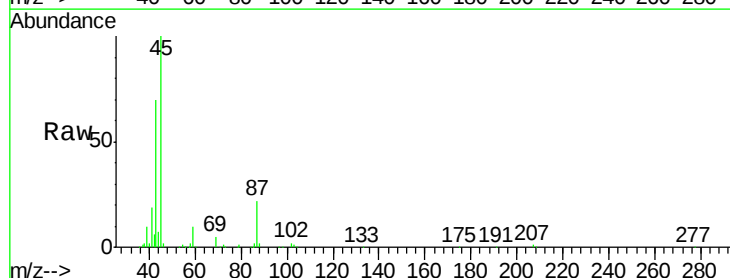
Ion Ratio Lower Upper

45 100

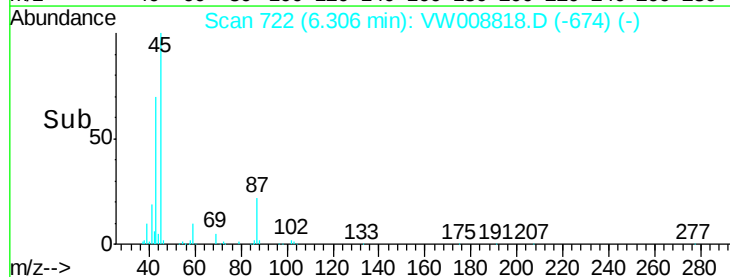
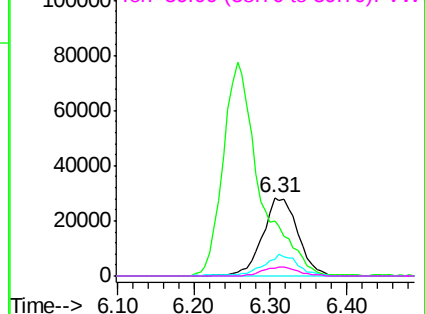
43 69.4 46.1 69.1#

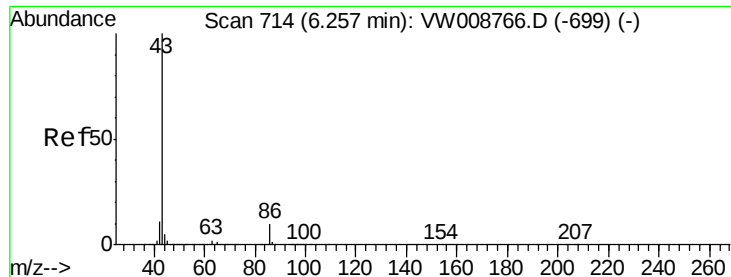
87 21.6 22.2 33.4#

59 10.0 10.0 15.0



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





#23

Vinyl Acetate

Concen: 48.284 ug/l

RT: 6.26 min Scan# 714

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

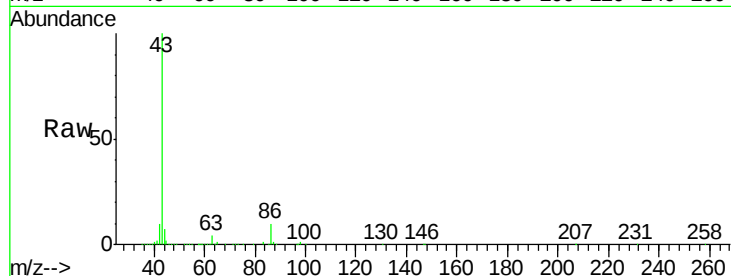
LOQ-SOIL-02-QT1-2019

Tot Ion: 43 Resp: 259038

Ion Ratio Lower Upper

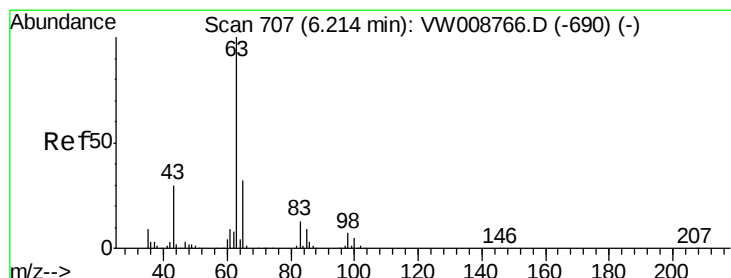
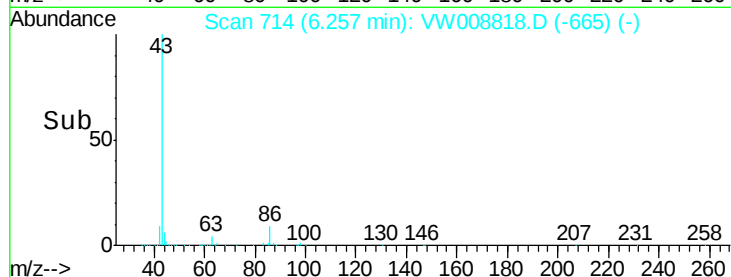
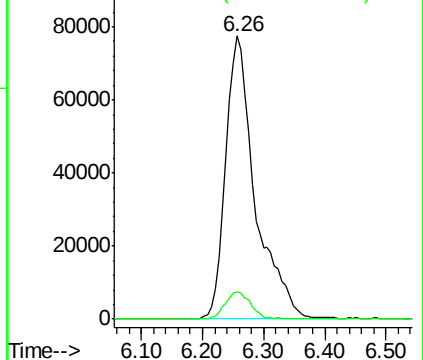
43 100

86 9.7 8.1 12.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW



#24

1,1-Dichloroethane

Concen: 9.987 ug/l

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

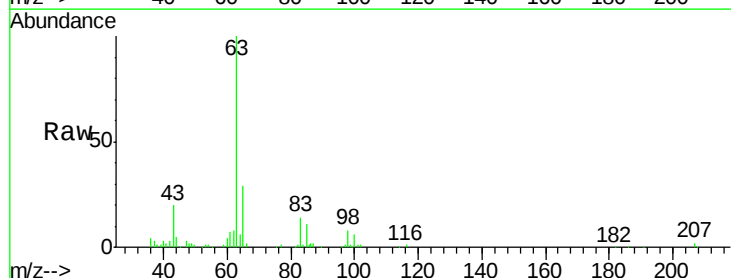
Tgt Ion: 63 Resp: 50249

Ion Ratio Lower Upper

63 100

98 8.4 3.5 10.6

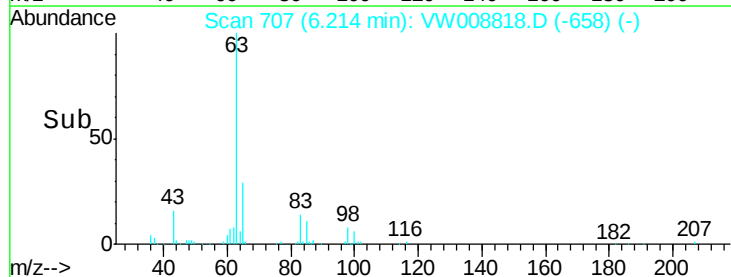
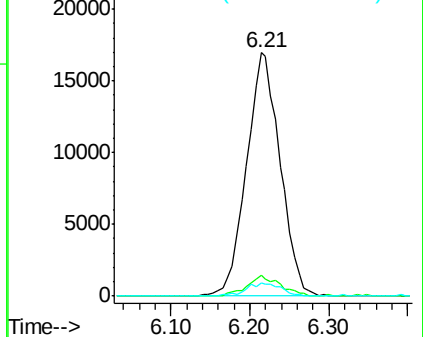
100 5.6 2.4 7.2

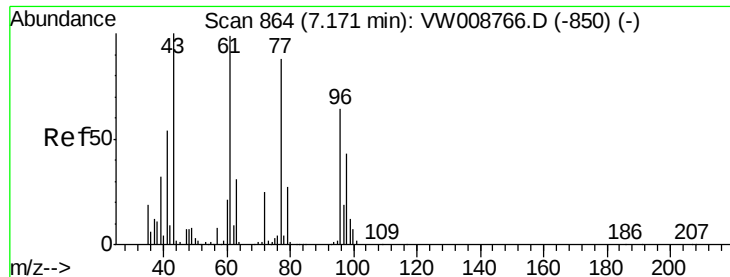


Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW





#25

2-Butanone

Concen: 47.503 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

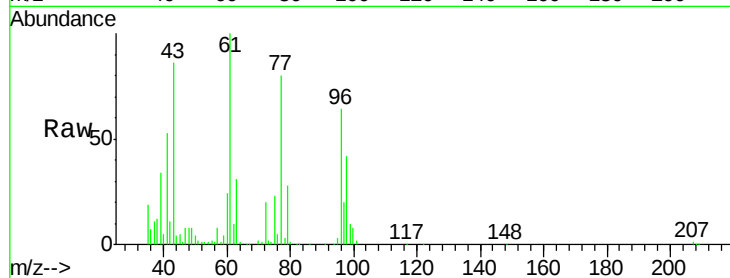
LOQ-SOIL-02-QT1-2019

Tot Ion: 43 Resp: 41588

Ion Ratio Lower Upper

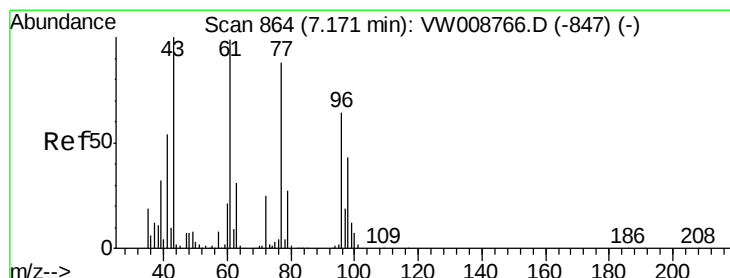
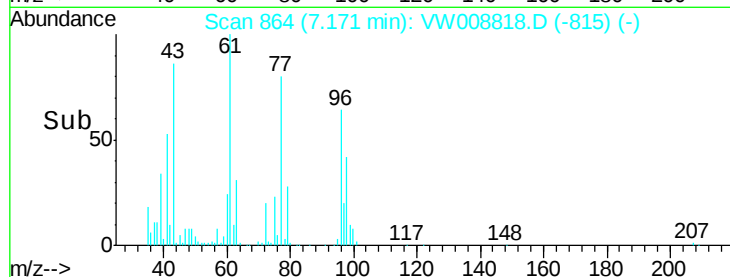
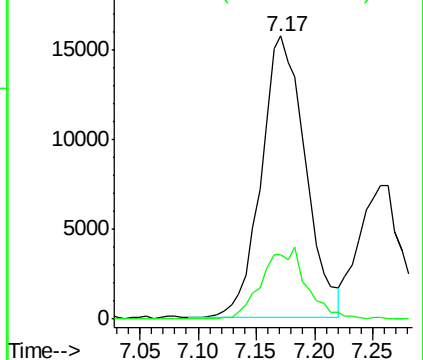
43 100

72 22.9 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#26

2,2-Dichloropropane

Concen: 9.727 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW008818.D

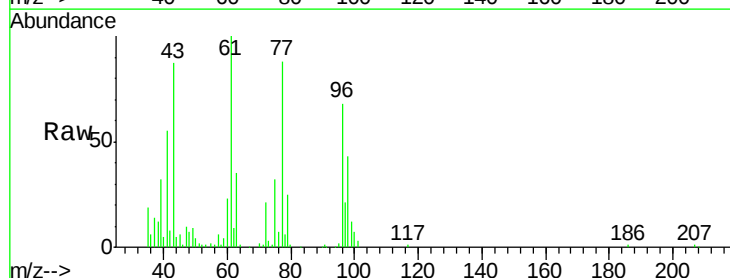
Acq: 25 Feb 2019 20:16

Tgt Ion: 77 Resp: 44434

Ion Ratio Lower Upper

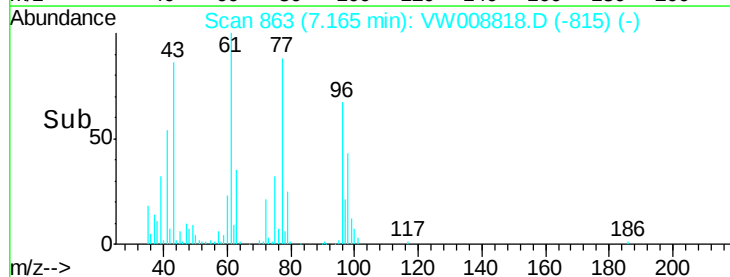
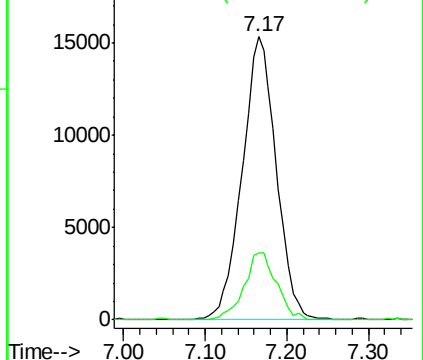
77 100

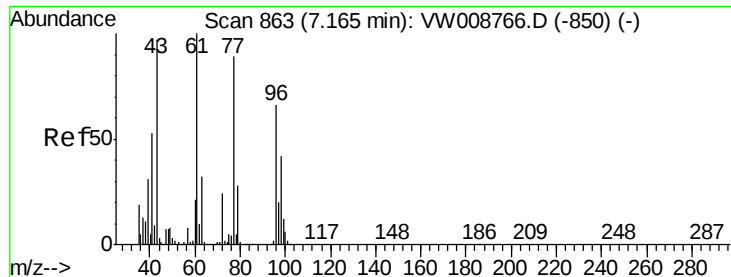
97 22.8 11.0 33.0



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW



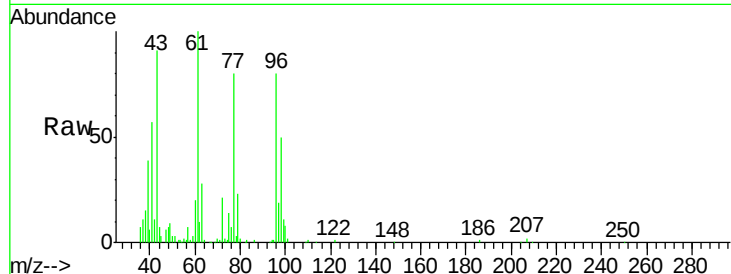


#27

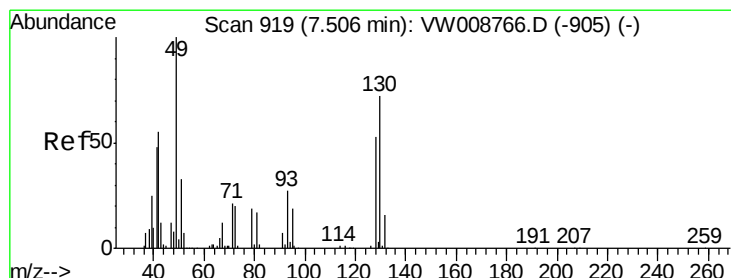
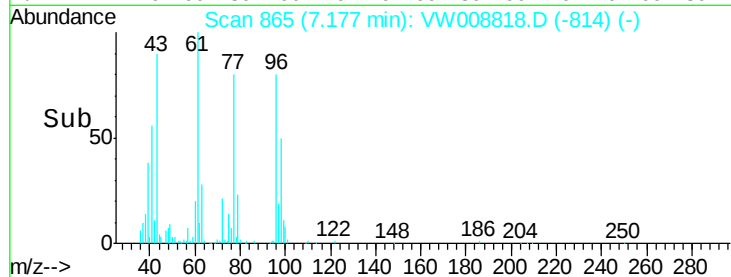
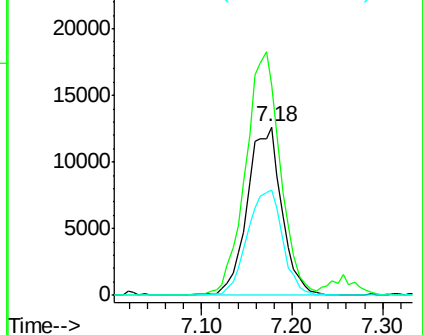
cis-1,2-Dichloroethene
Concen: 10.639 ug/l
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW008818.D
Acq: 25 Feb 2019 20:16

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2019

Tot Ion	96	Resp	33202
Ion Ratio	Lower	Upper	
96	100		
61	146.0	0.0	302.6
98	64.0	0.0	130.0



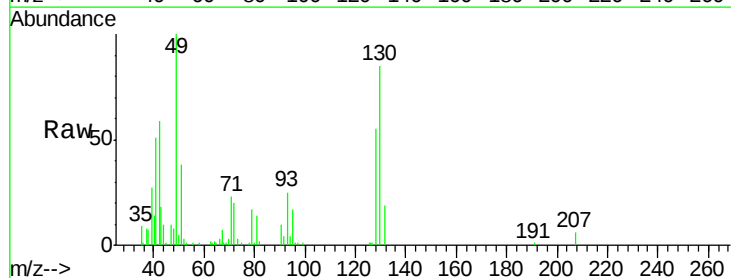
Abundance Ion 95.90 (95.60 to 96.60): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 97.90 (97.60 to 98.60): VW



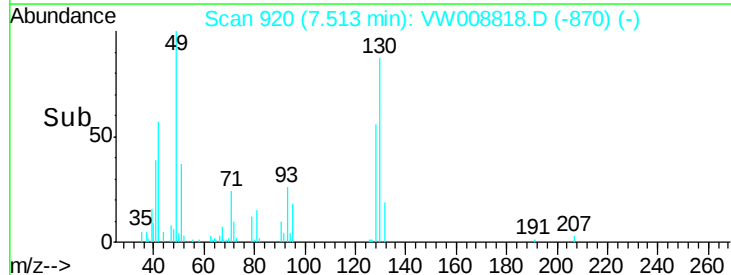
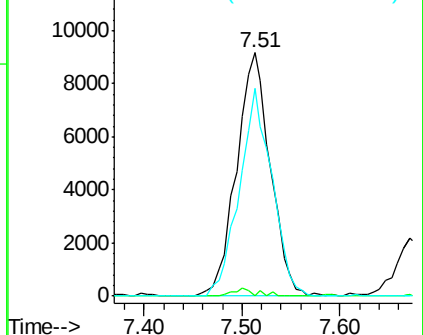
#28

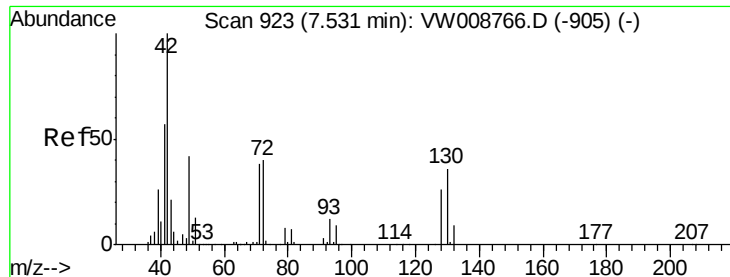
Bromochloromethane
Concen: 10.466 ug/l
RT: 7.51 min Scan# 920
Delta R.T. 0.01 min
Lab File: VW008818.D
Acq: 25 Feb 2019 20:16

Tgt Ion	49	Resp	22037
Ion Ratio	Lower	Upper	
49	100		
129	1.5	0.0	2.6
130	82.0	61.3	91.9



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

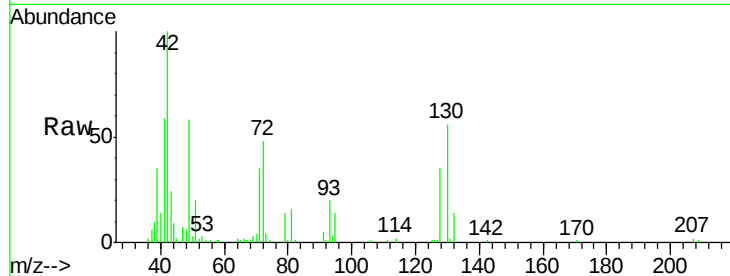




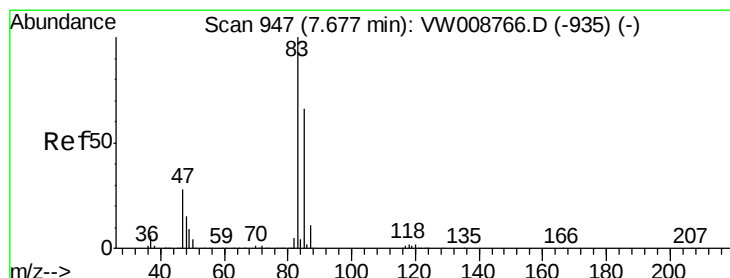
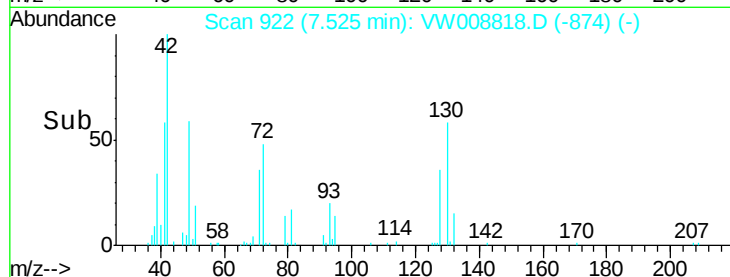
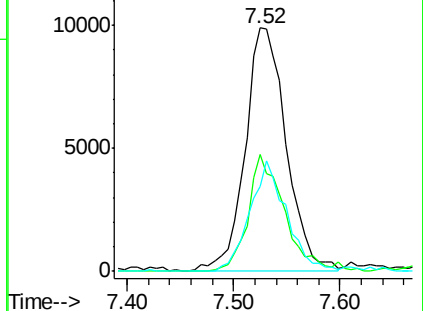
#29
Tetrahydrofuran
Concen: 48.093 ug/l
RT: 7.52 min Scan# 922
Delta R.T. -0.01 min
Lab File: VW008818.D
Acq: 25 Feb 2019 20:16

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2019

Tot Ion: 42 Resp: 26832
Ion Ratio Lower Upper
42 100
72 41.9 32.7 49.1
71 40.4 31.3 46.9

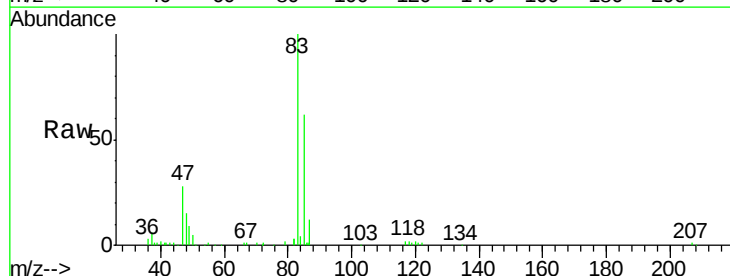


Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW

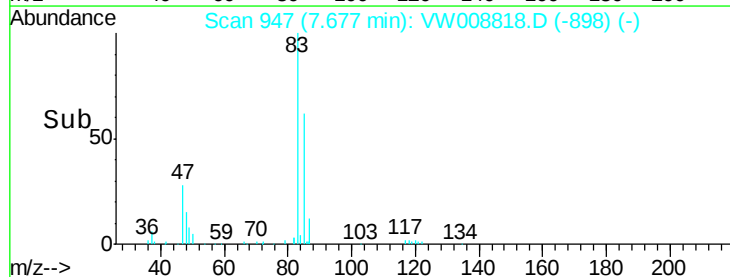
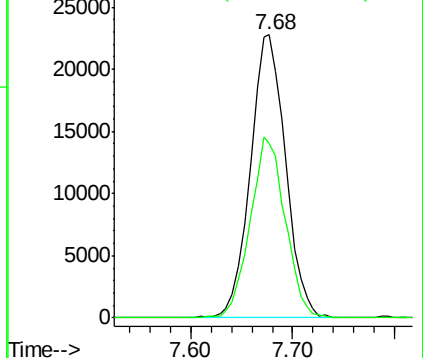


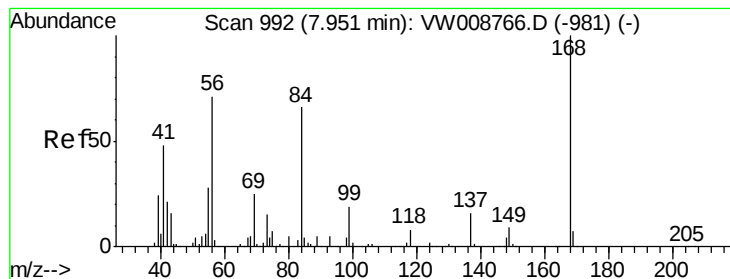
#30
Chloroform
Concen: 10.596 ug/l
RT: 7.68 min Scan# 947
Delta R.T. 0.00 min
Lab File: VW008818.D
Acq: 25 Feb 2019 20:16

Tgt Ion: 83 Resp: 54693
Ion Ratio Lower Upper
83 100
85 61.6 52.6 79.0



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





#31

Cyclohexane

Concen: 10.239 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2019

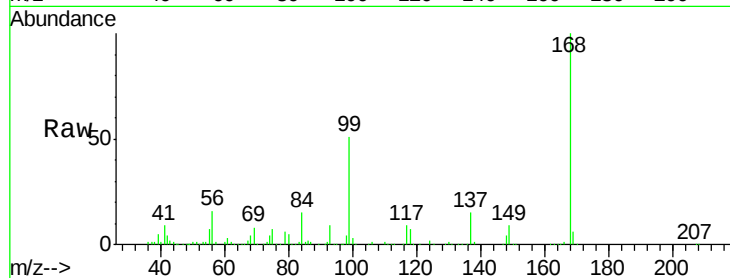
Tot Ion: 56 Resp: 52151

Ion Ratio Lower Upper

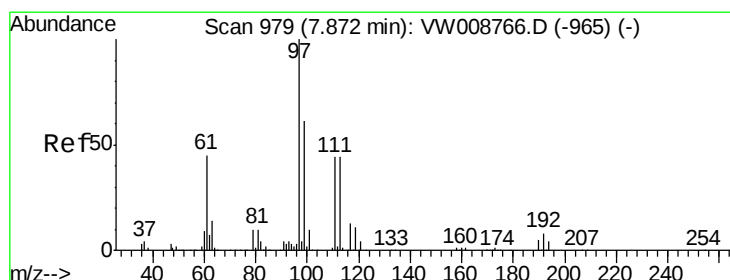
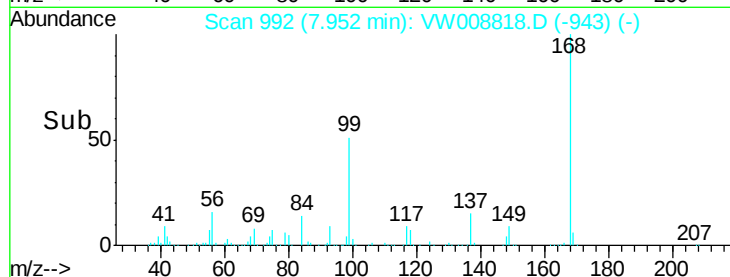
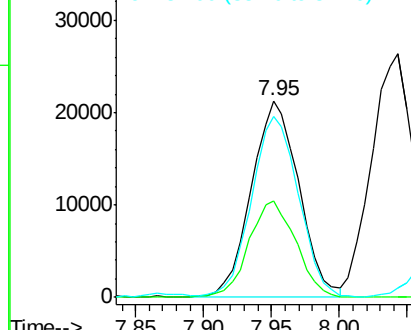
56 100

69 49.0 28.2 42.4#

84 91.1 74.1 111.1



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: 10.239 ug/l

RT: 7.87 min Scan# 979

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

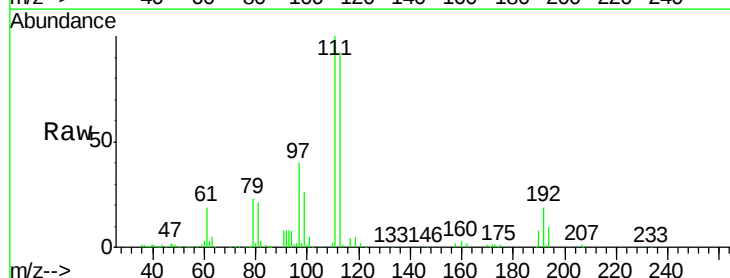
Tgt Ion: 97 Resp: 48066

Ion Ratio Lower Upper

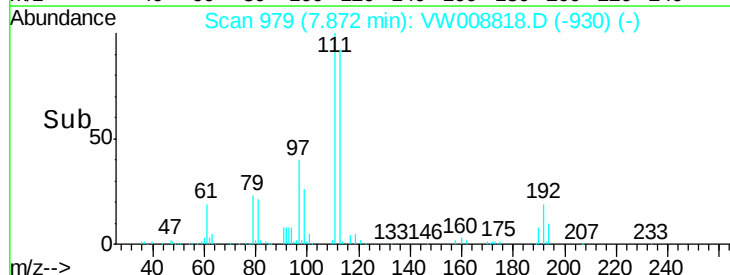
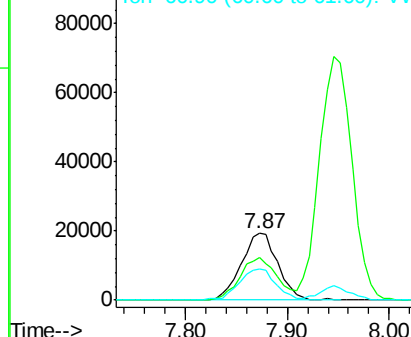
97 100

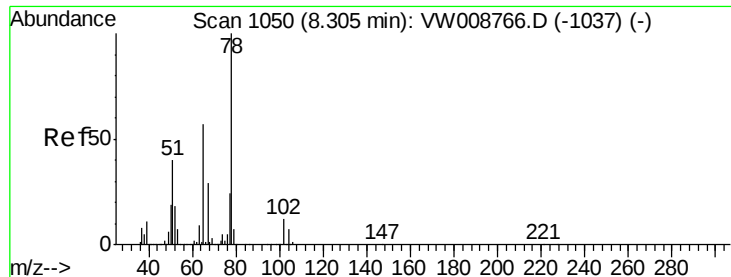
99 65.2 50.8 76.2

61 46.6 36.0 54.0



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: 55.464 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

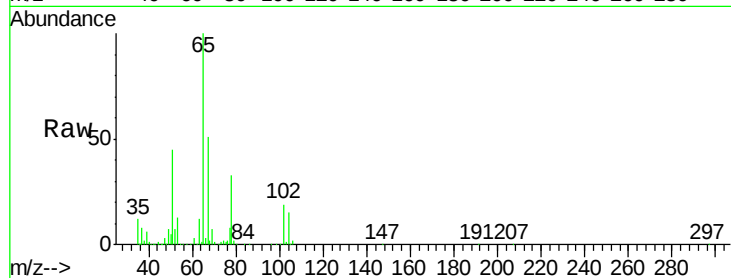
LOQ-SOIL-02-QT1-2019

Tot Ion: 65 Resp: 149843

Ion Ratio Lower Upper

65 100

67 51.5 0.0 101.4



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

8.31

60000

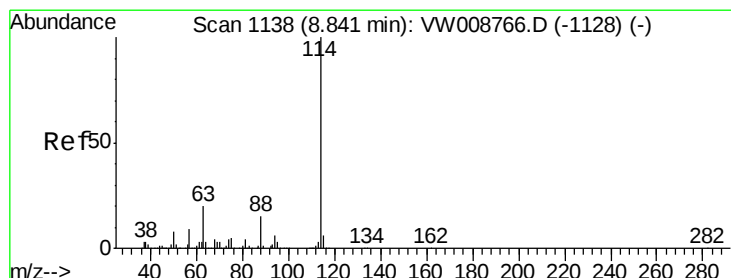
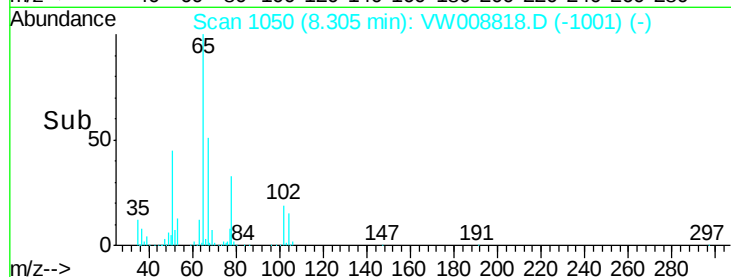
40000

20000

0

Time-->

8.20 8.25 8.30 8.35 8.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

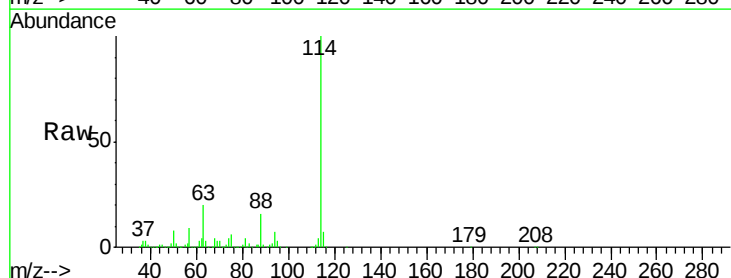
Tgt Ion: 114 Resp: 422055

Ion Ratio Lower Upper

114 100

63 20.1 0.0 40.8

88 16.1 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW

300000

250000

200000

150000

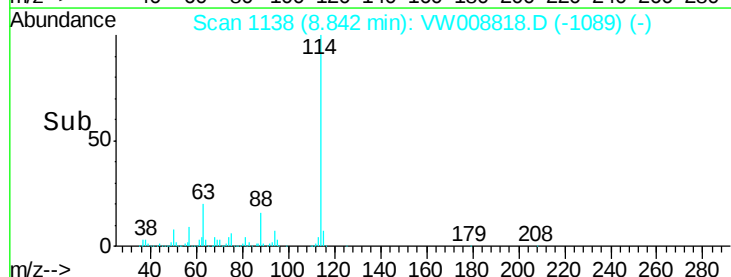
100000

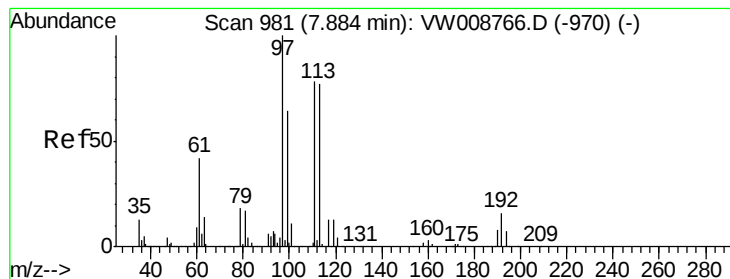
50000

0

Time-->

8.80 8.90





#35

Dibromofluoromethane

Concen: 54.611 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2019

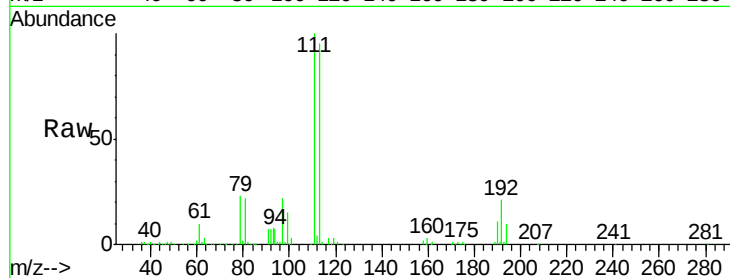
Tot Ion:113 Resp: 138387

Ion Ratio Lower Upper

113 100

111 103.9 81.9 122.9

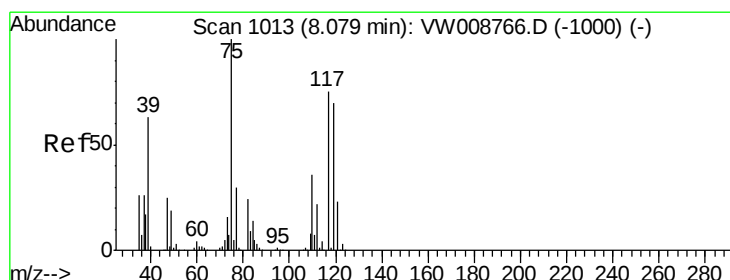
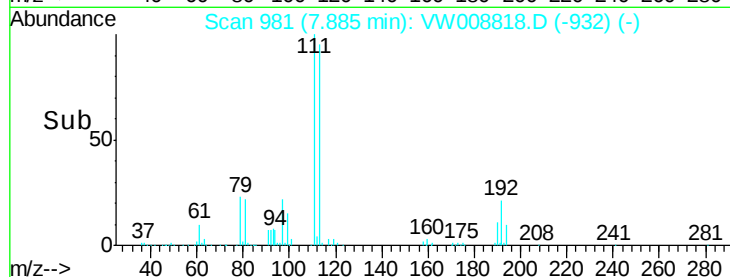
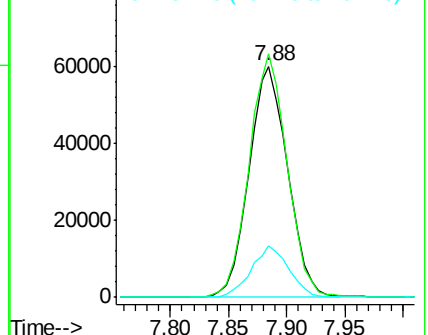
192 21.6 17.1 25.7



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: 9.967 ug/l

RT: 8.08 min Scan# 1013

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

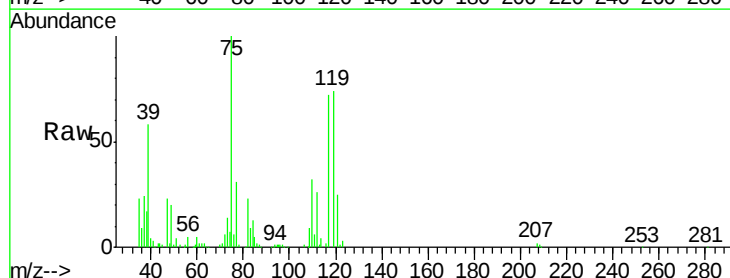
Tgt Ion: 75 Resp: 40950

Ion Ratio Lower Upper

75 100

110 35.5 17.5 52.6

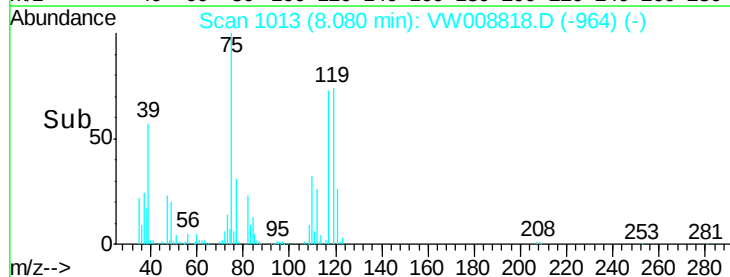
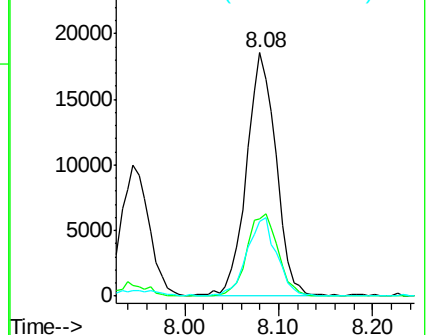
77 32.4 24.5 36.7

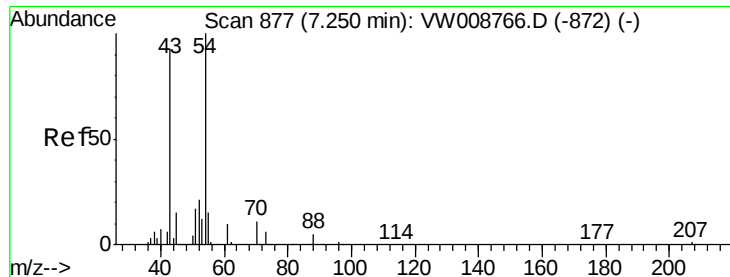


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

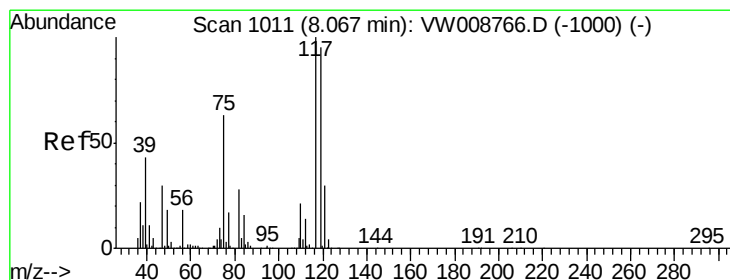
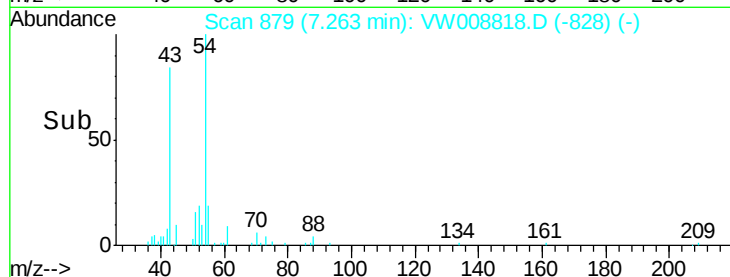
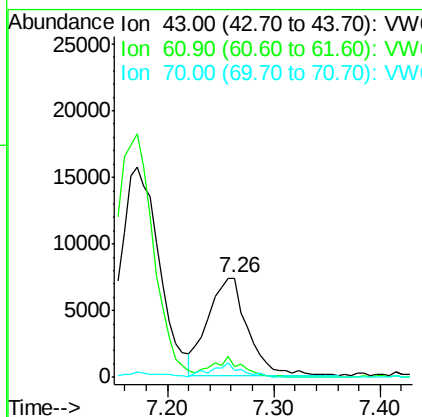
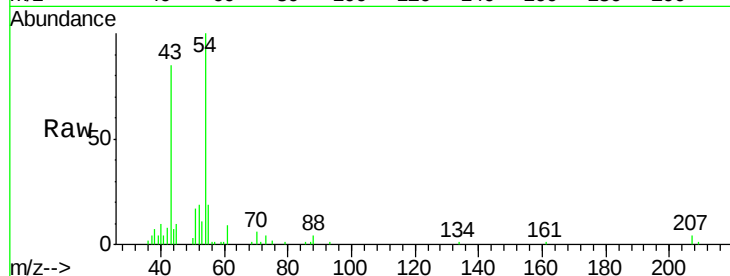




#37
Ethyl Acetate
Concen: 10.001 ug/l
RT: 7.26 min Scan# 879
Delta R.T. 0.01 min
Lab File: VW008818.D
Acq: 25 Feb 2019 20:16

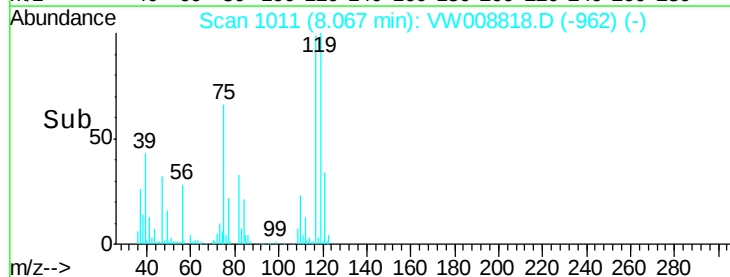
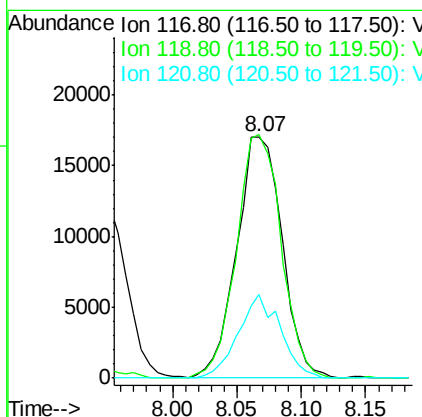
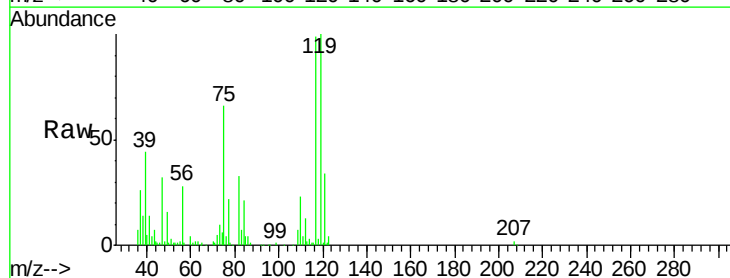
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2019

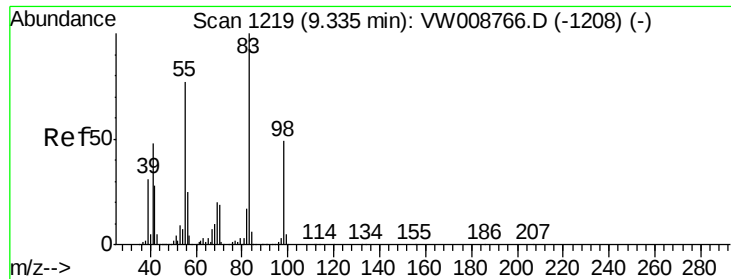
Tot Ion: 43 Resp: 19107
Ion Ratio Lower Upper
43 100
61 15.5 9.8 14.8#
70 11.2 8.4 12.6



#38
Carbon Tetrachloride
Concen: 9.658 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VW008818.D
Acq: 25 Feb 2019 20:16

Tgt Ion: 117 Resp: 41844
Ion Ratio Lower Upper
117 100
119 100.9 76.1 114.1
121 34.6 24.0 36.0

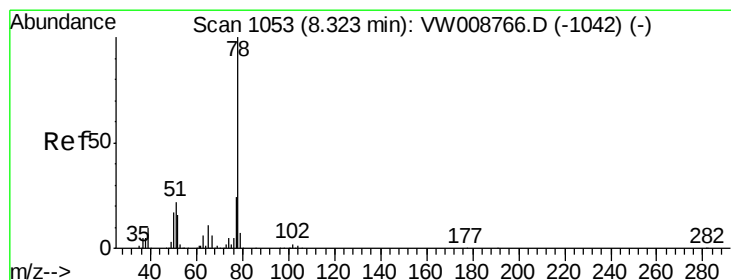
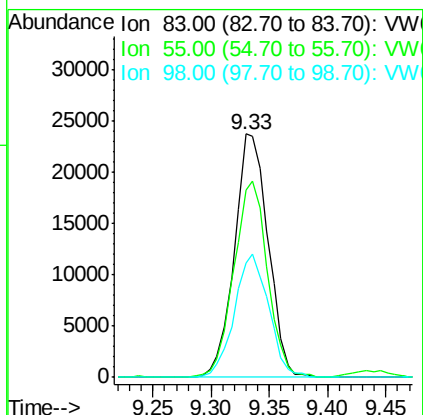
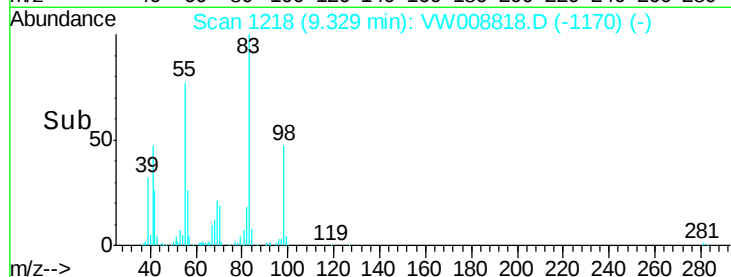
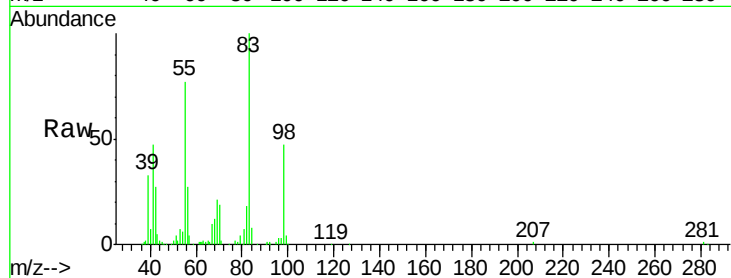




#39
Methvlcvclohexane
Concen: 9.352 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW008818.D
Acq: 25 Feb 2019 20:16

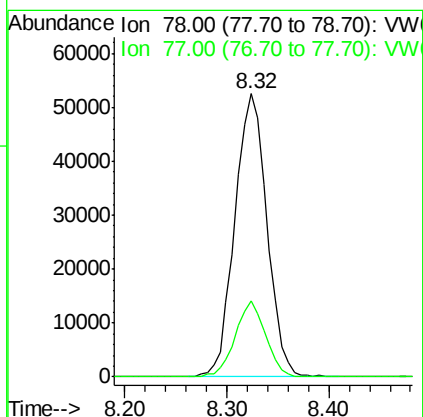
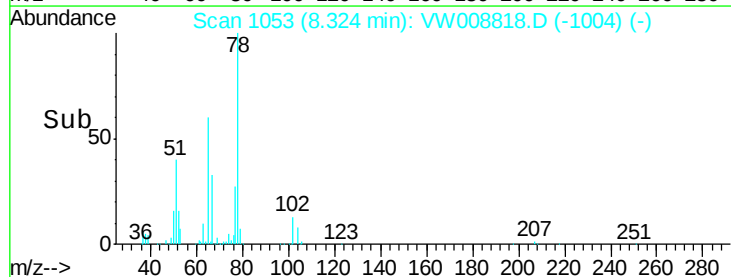
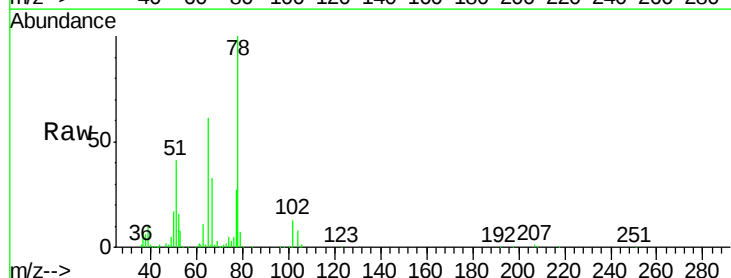
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2019

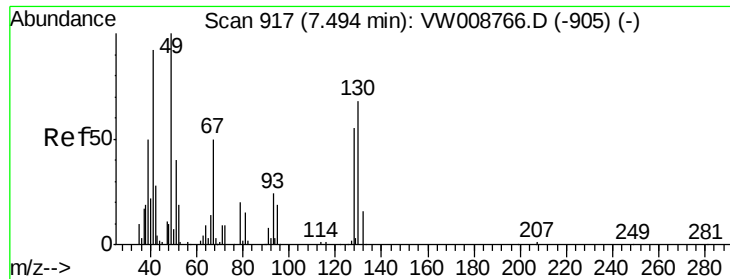
Tot Ion: 83 Resp: 47926
Ion Ratio Lower Upper
83 100
55 77.1 61.2 91.8
98 46.7 39.4 59.2



#40
Benzene
Concen: 10.223 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VW008818.D
Acq: 25 Feb 2019 20:16

Tgt Ion: 78 Resp: 114676
Ion Ratio Lower Upper
78 100
77 26.9 19.3 28.9

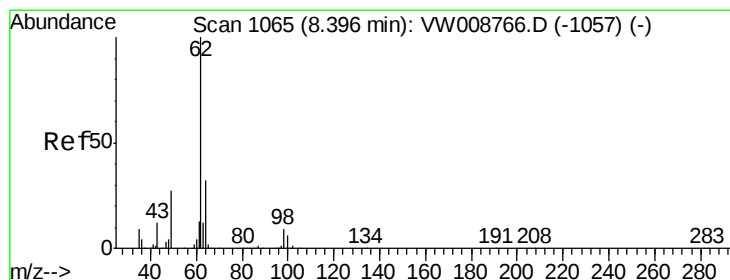
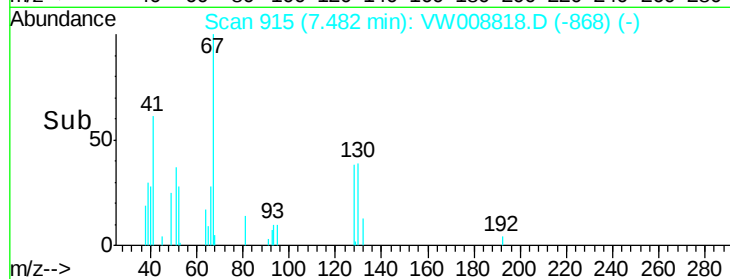
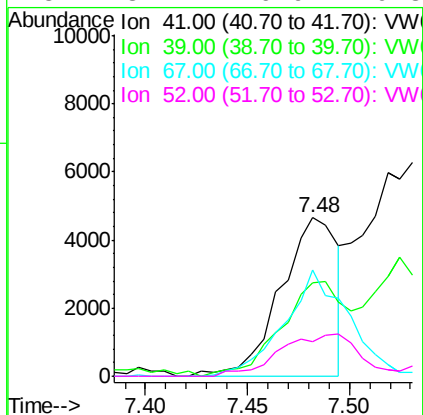
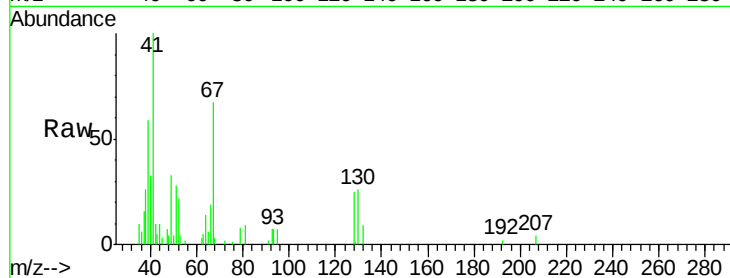




#41
Methacrylonitrile
Concen: 8.070 ug/l
RT: 7.48 min Scan# 915
Delta R.T. -0.01 min
Lab File: VW008818.D
Acq: 25 Feb 2019 20:16

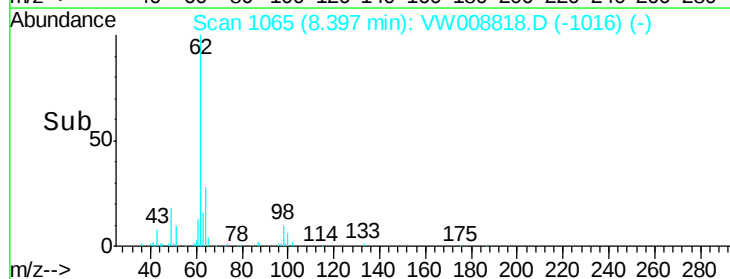
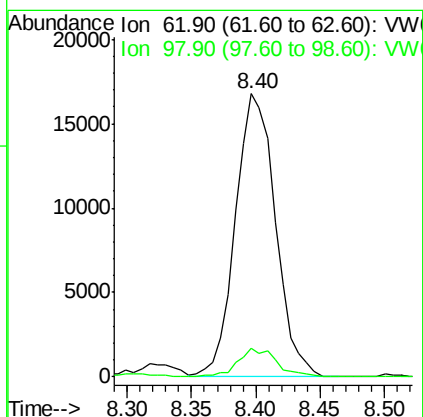
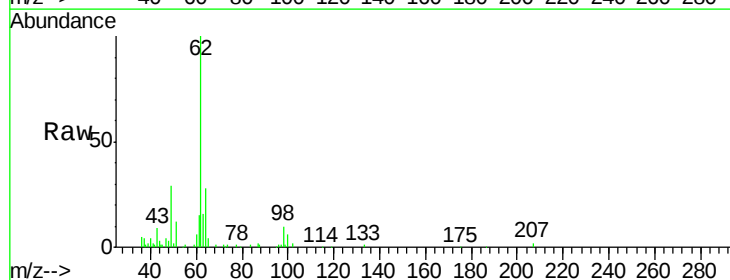
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2019

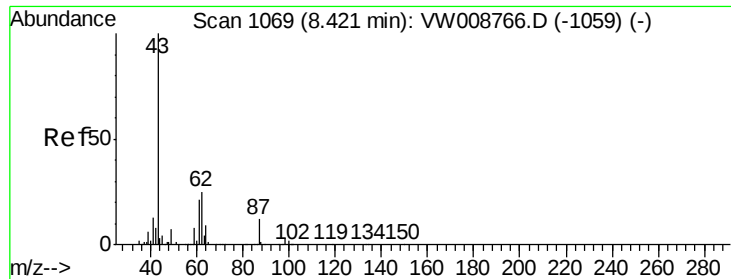
Tot Ion:	41	Resp:	9063
Ion	Ratio	Lower	Upper
41	100		
39	67.1	52.5	78.7
67	75.9	55.0	82.6
52	37.1	26.9	40.3



#42
1,2-Dichloroethane
Concen: 10.099 ug/l
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW008818.D
Acq: 25 Feb 2019 20:16

Tgt Ion:	62	Resp:	35884
Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	18.2





#43

Isopropyl Acetate

Concen: 9.686 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2019

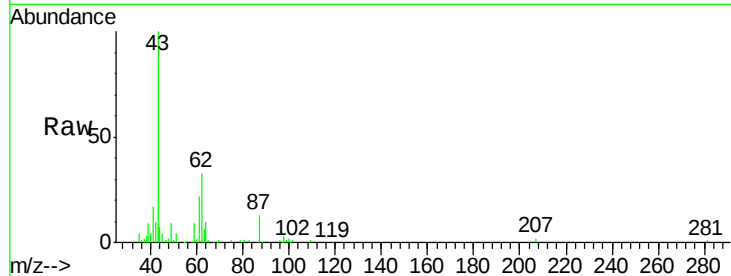
Tot Ion: 43 Resp: 36933

Ion Ratio Lower Upper

43 100

61 30.1 23.2 34.8

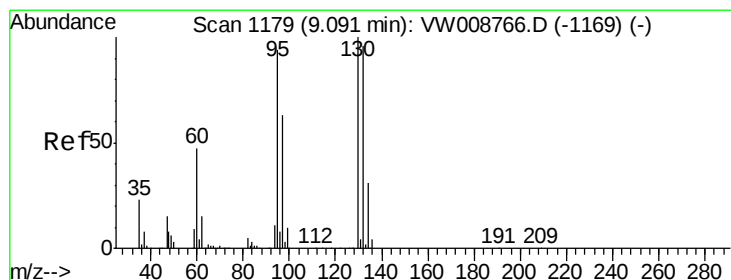
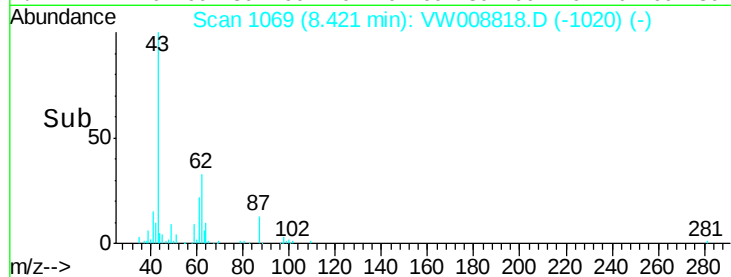
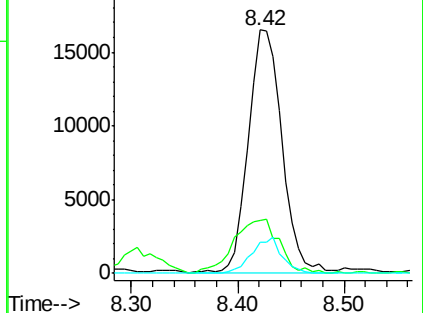
87 13.1 9.9 14.9



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 87.00 (86.70 to 87.70): VW



#44

Trichloroethene

Concen: 10.565 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW008818.D

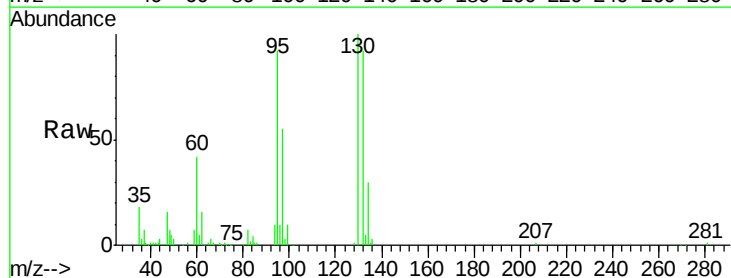
Acq: 25 Feb 2019 20:16

Tgt Ion:130 Resp: 33384

Ion Ratio Lower Upper

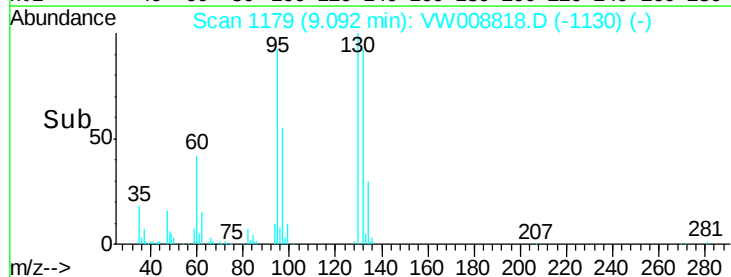
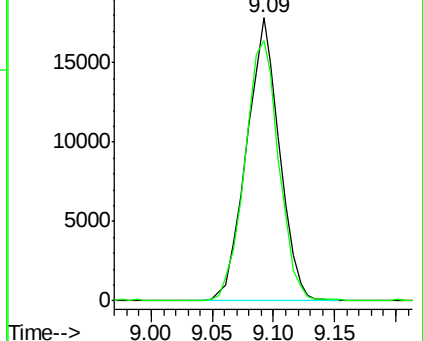
130 100

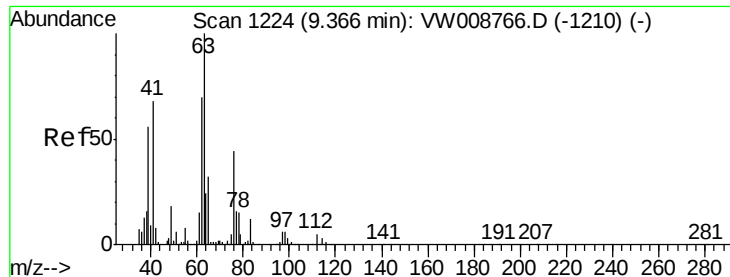
95 91.8 0.0 188.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW





#45

1,2-Dichloropropane

Concen: 10.471 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

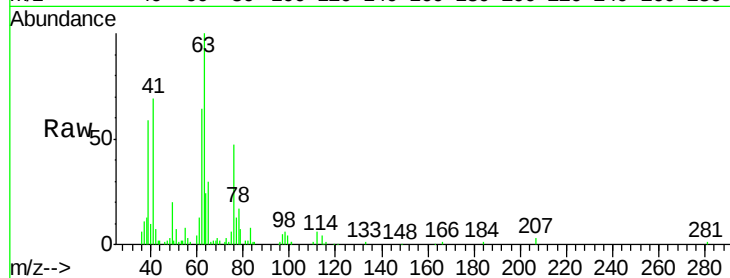
LOQ-SOIL-02-QT1-2019

Tot Ion: 63 Resp: 29026

Ion Ratio Lower Upper

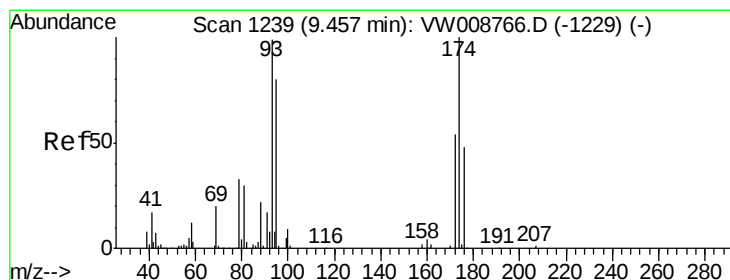
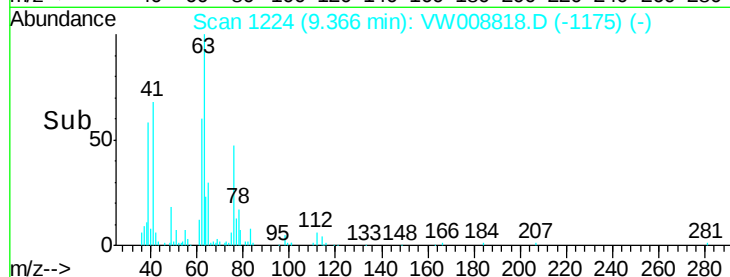
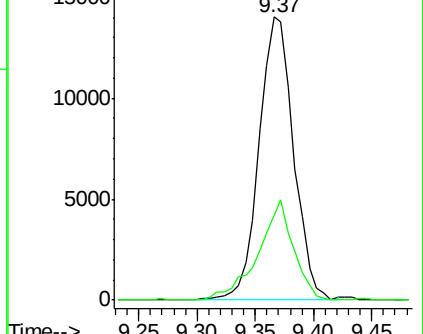
63 100

65 29.9 25.5 38.3



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 64.90 (64.60 to 65.60): VW



#46

Dibromomethane

Concen: 10.029 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

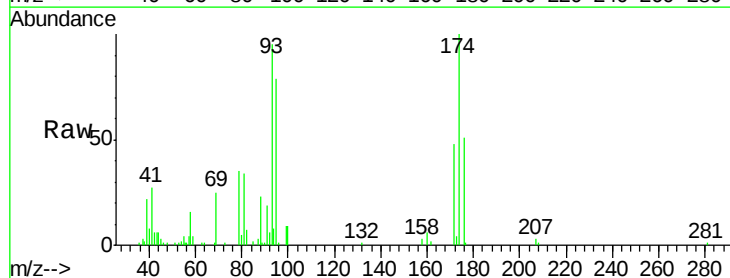
Tgt Ion: 93 Resp: 15463

Ion Ratio Lower Upper

93 100

95 83.6 67.7 101.5

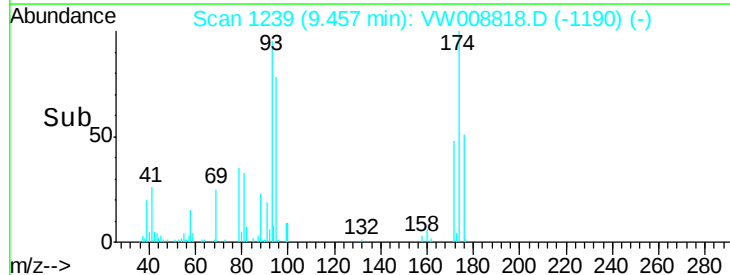
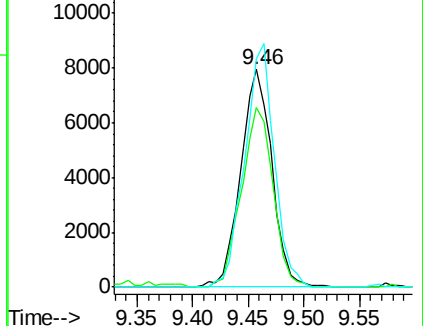
174 106.7 86.7 130.1

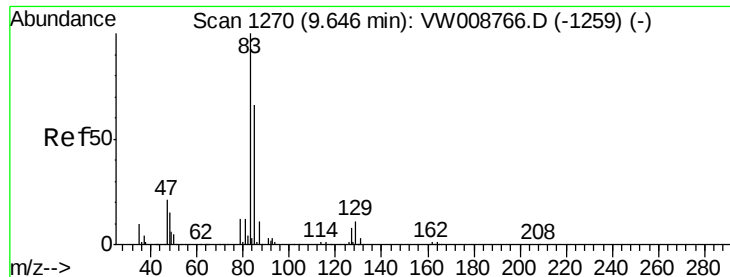


Abundance Ion 92.80 (92.50 to 93.50): VW

Ion 94.80 (94.50 to 95.50): VW

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 9.878 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2019

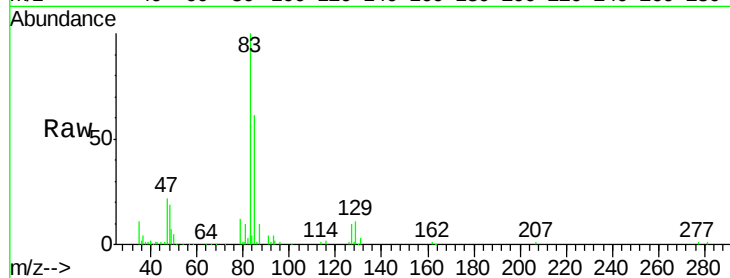
Tot Ion: 83 Resp: 37055

Ion Ratio Lower Upper

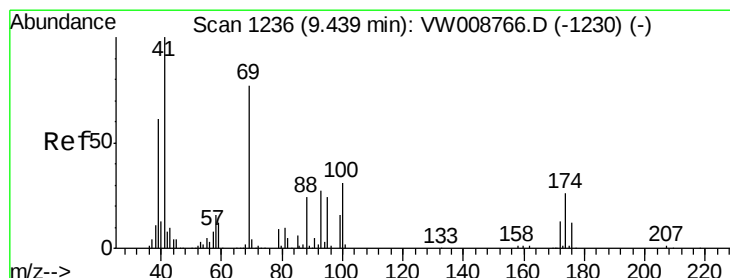
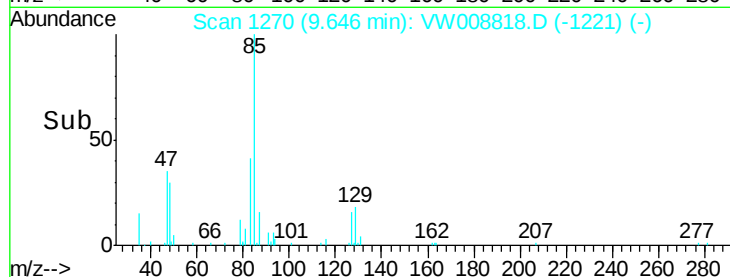
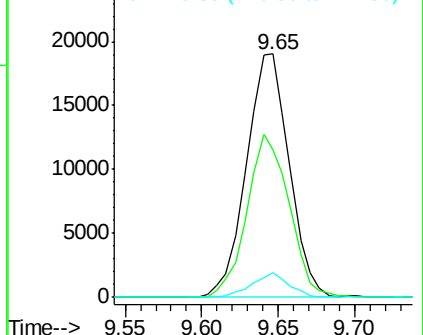
83 100

85 60.8 52.5 78.7

127 10.0 6.7 10.1



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



#48

Methyl methacrylate

Concen: 9.426 ug/l

RT: 9.44 min Scan# 1236

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

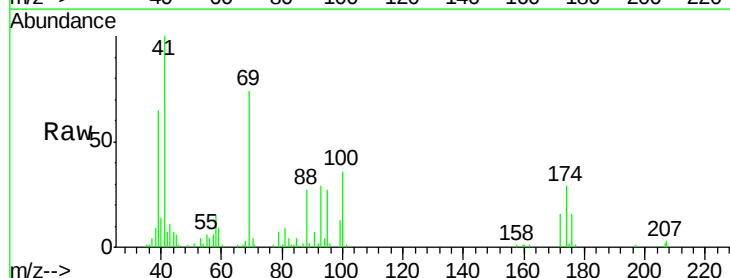
Tgt Ion: 41 Resp: 17213

Ion Ratio Lower Upper

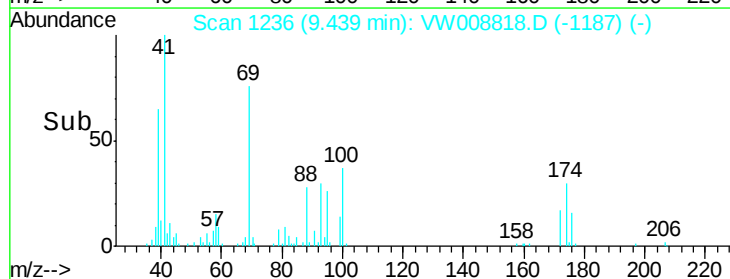
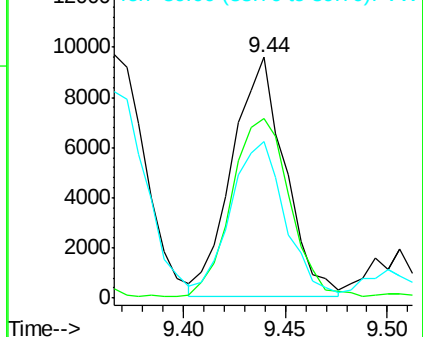
41 100

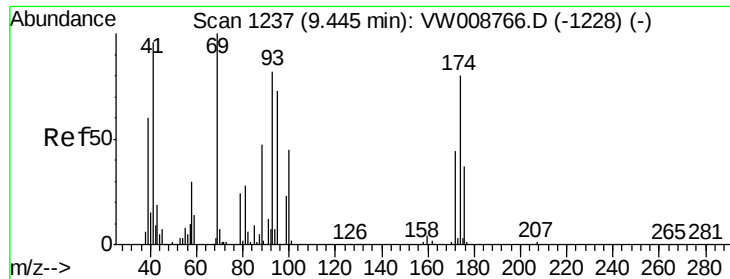
69 81.5 63.6 95.4

39 67.0 52.1 78.1



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

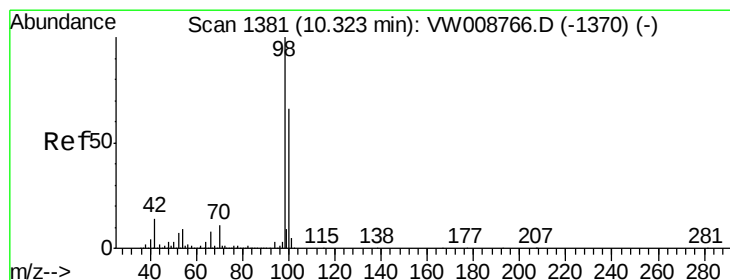
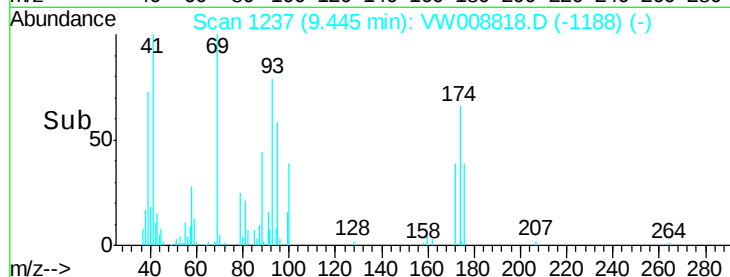
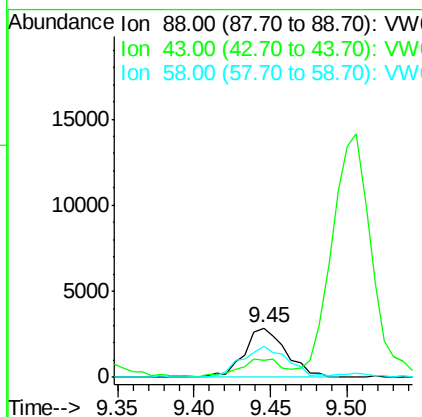
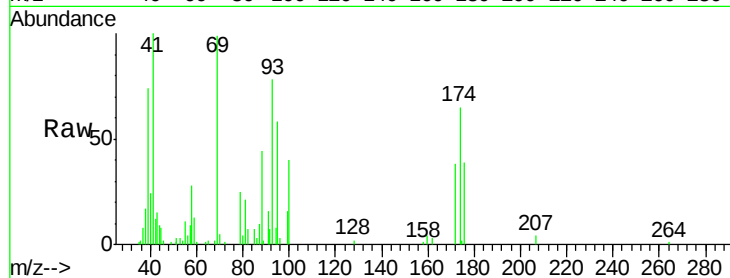




#49
1,4-Dioxane
Concen: 220.115 ug/l
RT: 9.45 min Scan# 1237
Delta R.T. 0.00 min
Lab File: VW008818.D
Acq: 25 Feb 2019 20:16

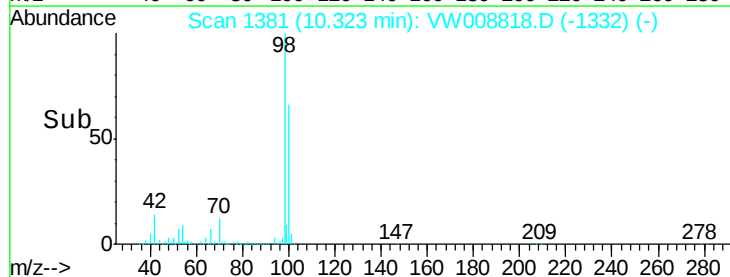
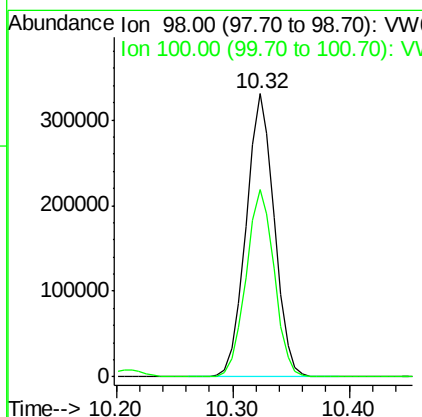
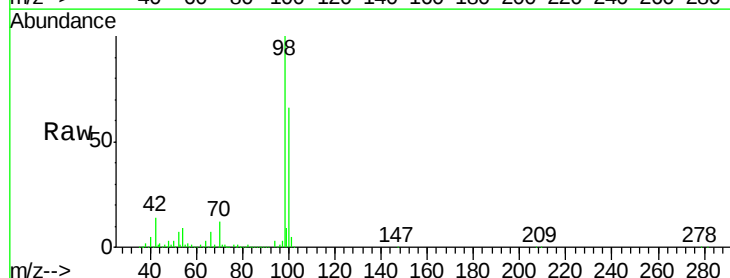
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2019

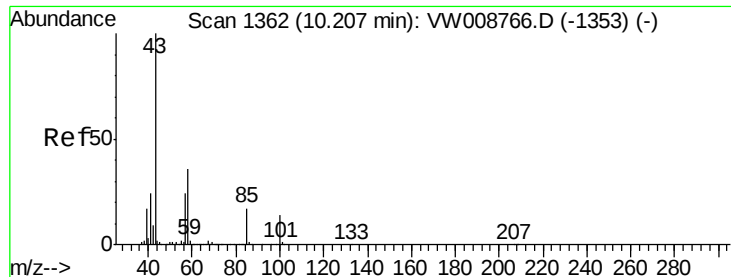
Tot Ion: 88 Resp: 5435
Ion Ratio Lower Upper
88 100
43 39.0 29.0 43.4
58 69.1 52.0 78.0



#50
Toluene-d8
Concen: 57.029 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW008818.D
Acq: 25 Feb 2019 20:16

Tgt Ion: 98 Resp: 557872
Ion Ratio Lower Upper
98 100
100 66.3 52.4 78.6





#51

4-Methyl-2-Pentanone

Concen: 47.216 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

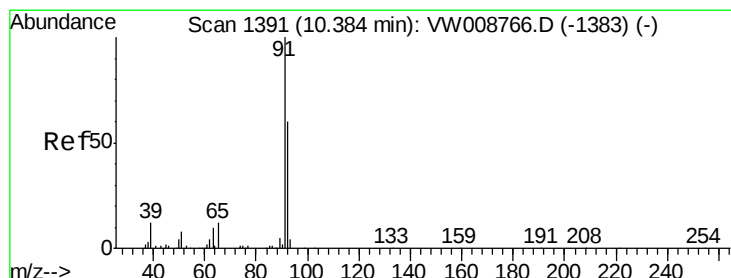
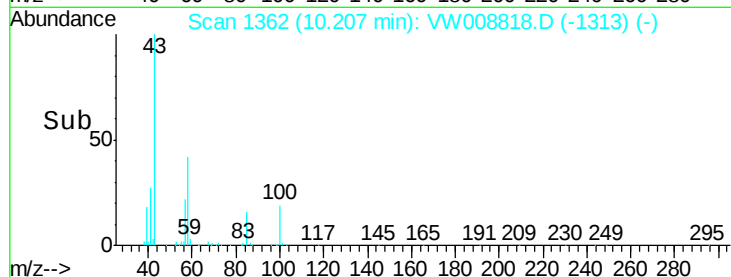
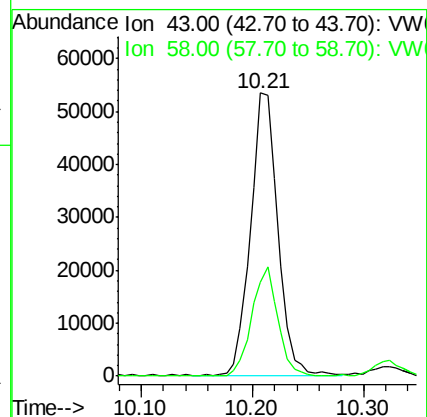
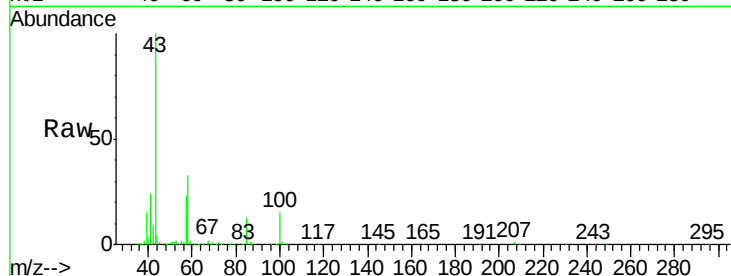
LOQ-SOIL-02-QT1-2019

Tot Ion: 43 Resp: 91403

Ion Ratio Lower Upper

43 100

58 36.8 29.1 43.7



#52

Toluene

Concen: 10.698 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW008818.D

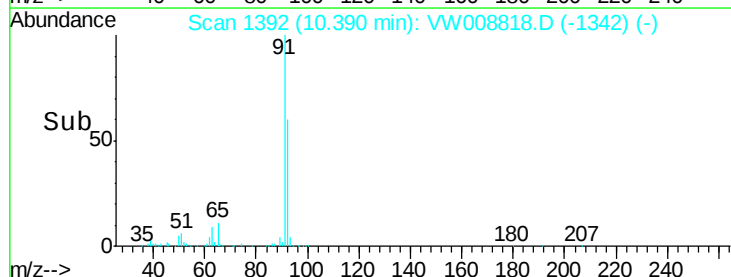
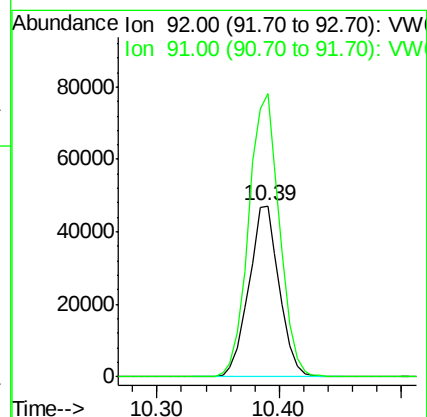
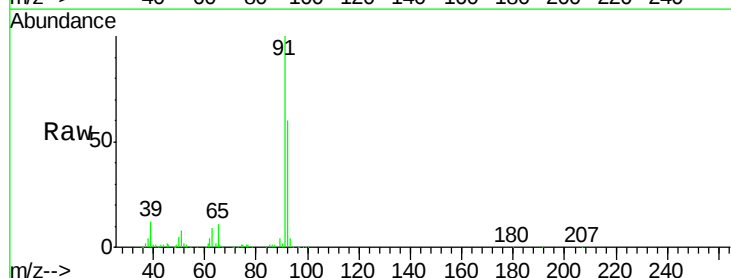
Acq: 25 Feb 2019 20:16

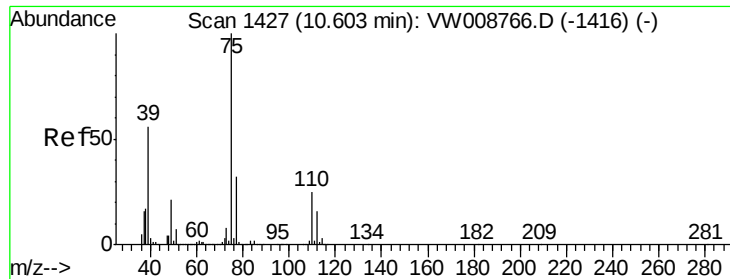
Tgt Ion: 92 Resp: 81443

Ion Ratio Lower Upper

92 100

91 167.5 136.9 205.3





#53

t-1,3-Dichloropropene

Concen: 9.346 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

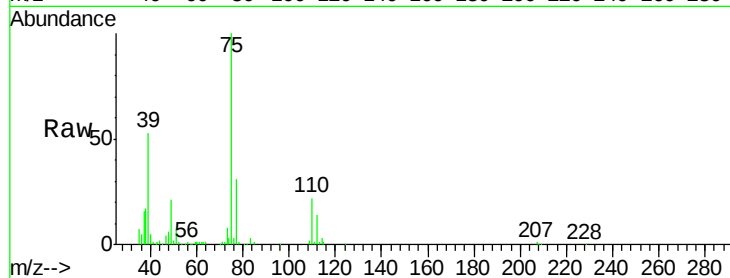
LOQ-SOIL-02-QT1-2019

Tot Ion: 75 Resp: 35736

Ion Ratio Lower Upper

75 100

77 30.6 26.1 39.1



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW

10.60

25000

20000

15000

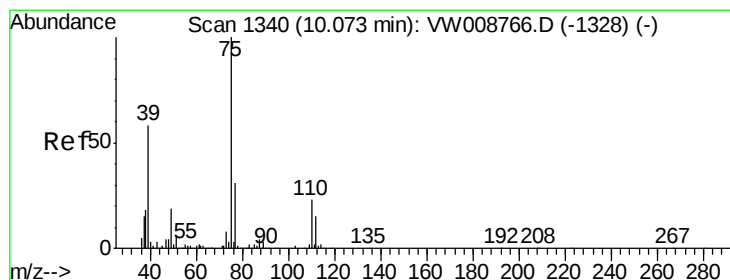
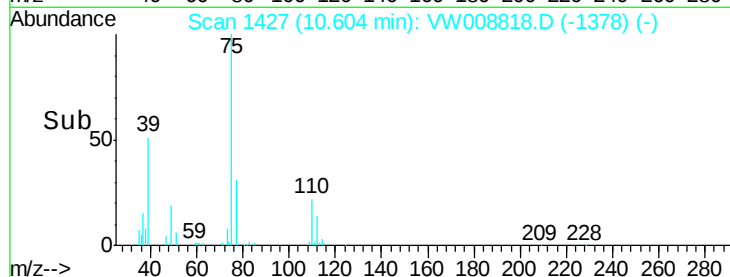
10000

5000

0

Time-->

10.55 10.60 10.65



#54

cis-1,3-Dichloropropene

Concen: 9.967 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

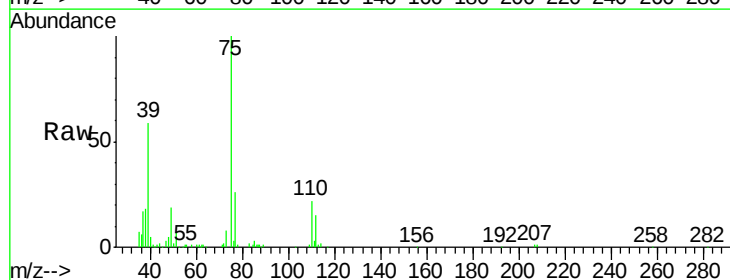
Tgt Ion: 75 Resp: 43466

Ion Ratio Lower Upper

75 100

77 26.2 25.0 37.4

39 58.3 46.6 70.0



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

10.07

30000

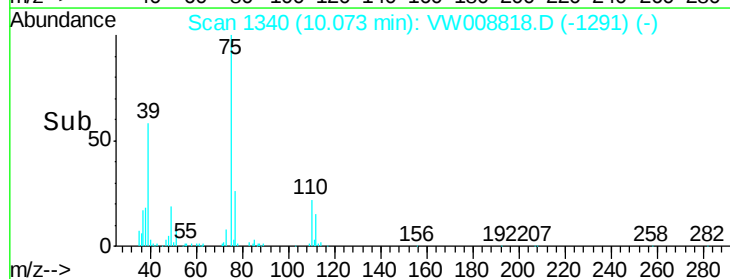
20000

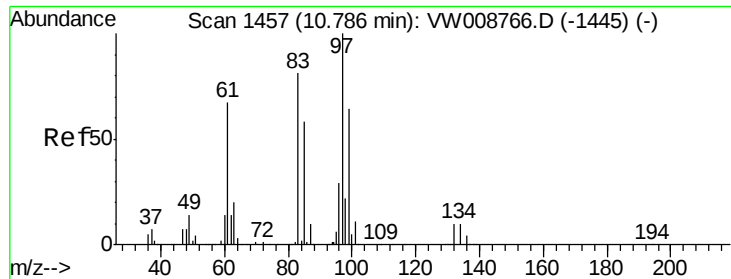
10000

0

Time-->

10.00 10.10





#55

1,1,2-Trichloroethane

Concen: 10.653 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

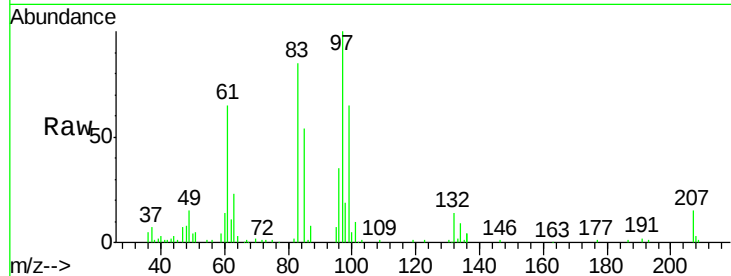
MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion: 97 Resp: 22276

Ion	Ratio	Lower	Upper
97	100		
83	85.4	65.0	97.6
85	53.8	46.0	69.0
99	64.6	51.1	76.7

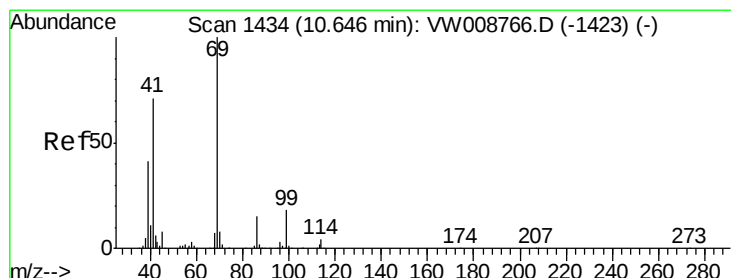
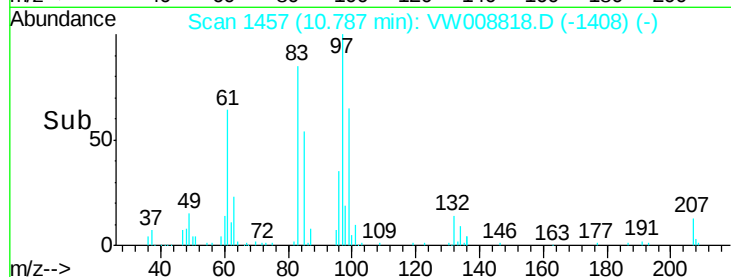


Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



#56

Ethyl methacrylate

Concen: 9.757 ug/l

RT: 10.65 min Scan# 1434

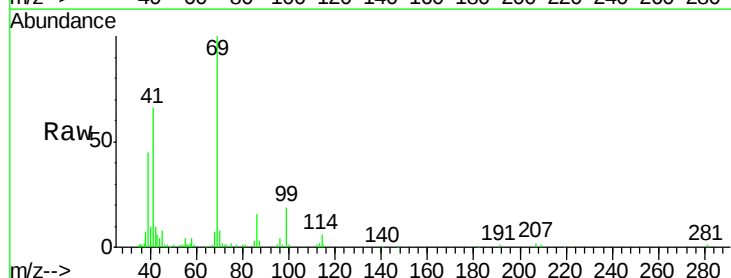
Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Tgt Ion: 69 Resp: 26506

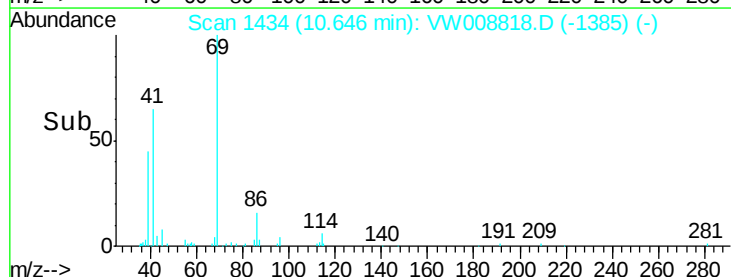
Ion	Ratio	Lower	Upper
69	100		
41	70.1	57.4	86.0
39	41.2	34.8	52.2

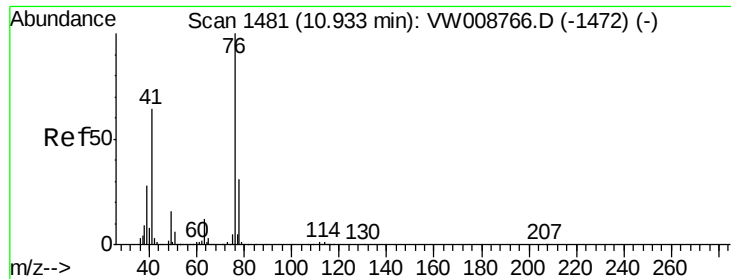


Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

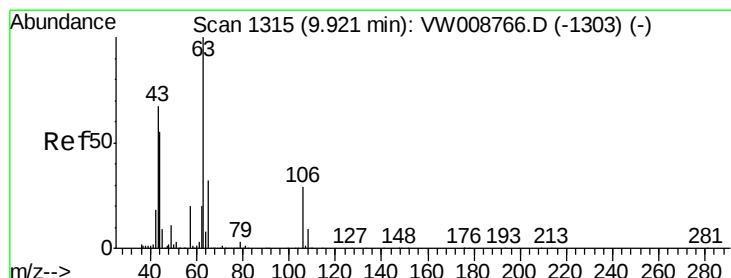
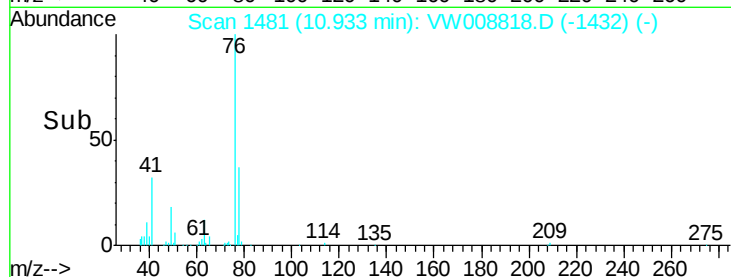
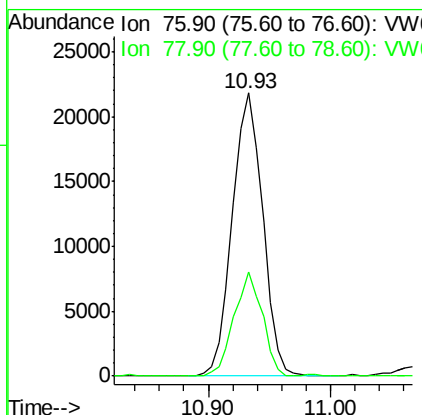
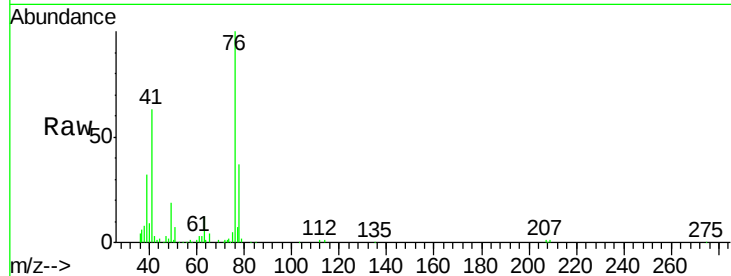




#57
 1,3-Dichloropropane
 Concen: 10.185 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. 0.00 min
 Lab File: VW008818.D
 Acq: 25 Feb 2019 20:16

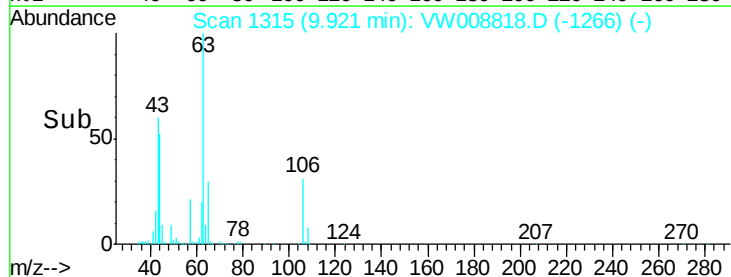
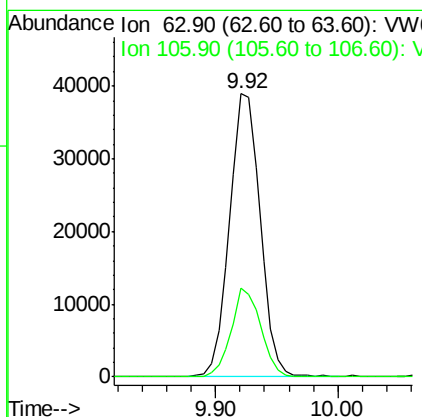
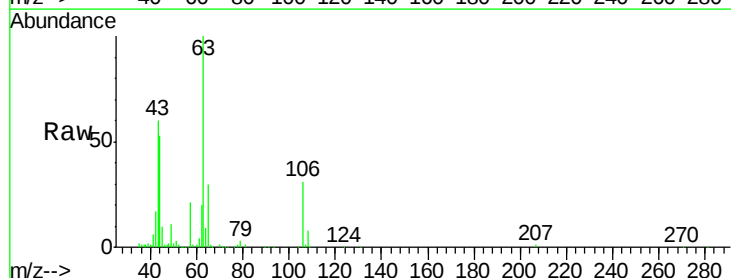
Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

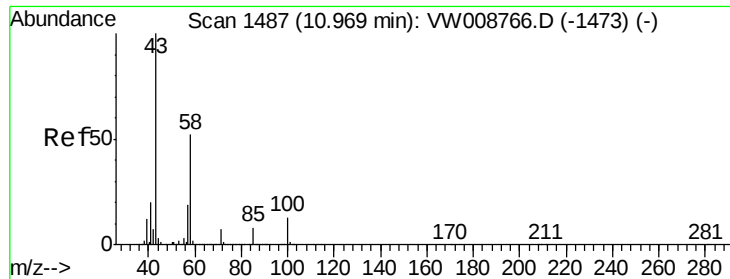
Tot Ion: 76 Resp: 37601
 Ion Ratio Lower Upper
 76 100
 78 34.3 25.8 38.8



#58
 2-Chloroethyl Vinyl ether
 Concen: 49.441 ug/l
 RT: 9.92 min Scan# 1315
 Delta R.T. 0.00 min
 Lab File: VW008818.D
 Acq: 25 Feb 2019 20:16

Tgt Ion: 63 Resp: 67553
 Ion Ratio Lower Upper
 63 100
 106 30.2 24.0 36.0





#59

2-Hexanone

Concen: 45.416 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

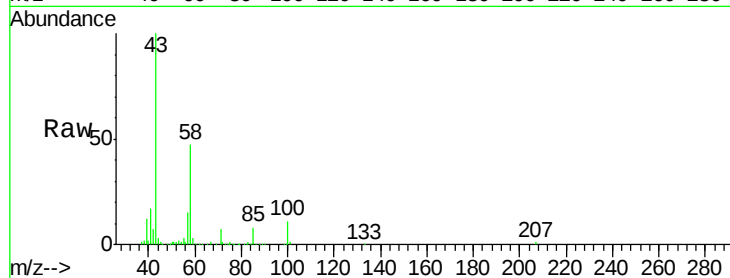
LOQ-SOIL-02-QT1-2019

Tot Ion: 43 Resp: 62585

Ion Ratio Lower Upper

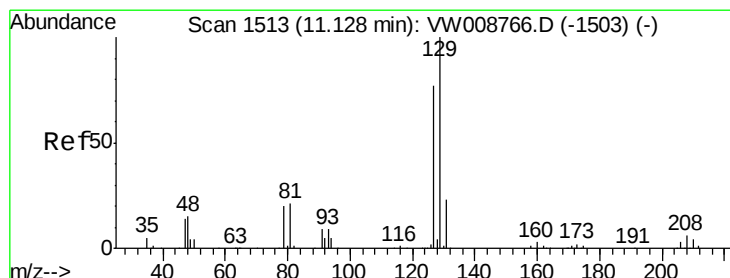
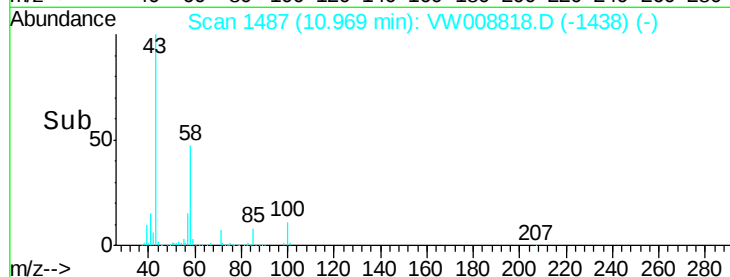
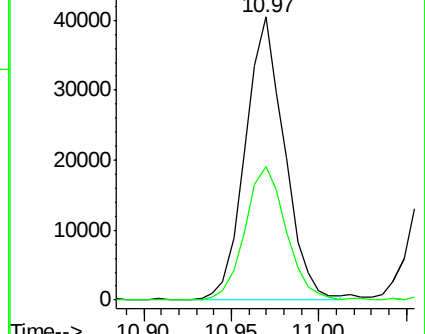
43 100

58 49.8 25.3 75.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#60

Dibromochloromethane

Concen: 9.650 ug/l

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW008818.D

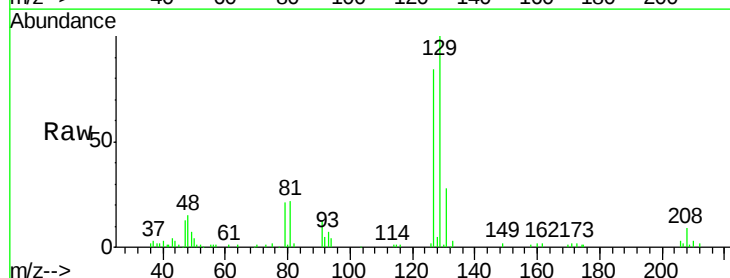
Acq: 25 Feb 2019 20:16

Tgt Ion: 129 Resp: 24612

Ion Ratio Lower Upper

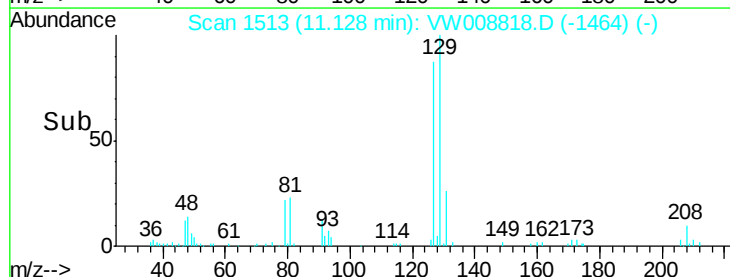
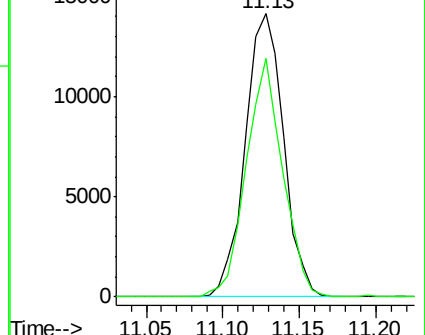
129 100

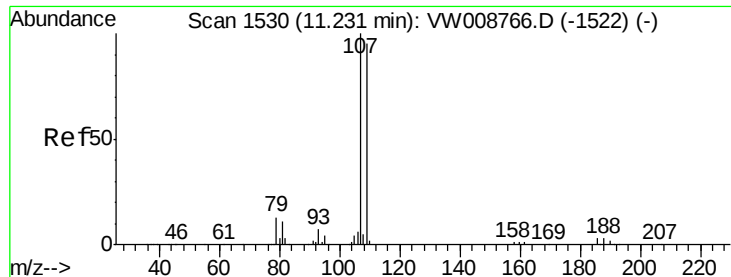
127 80.2 39.0 116.9



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#61

1,2-Dibromoethane

Concen: 10.029 ug/l

RT: 11.24 min Scan# 1531

Delta R.T. 0.01 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

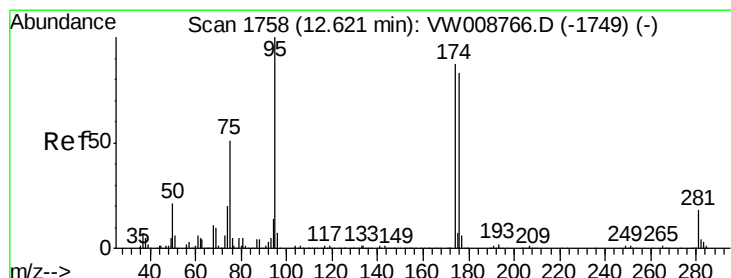
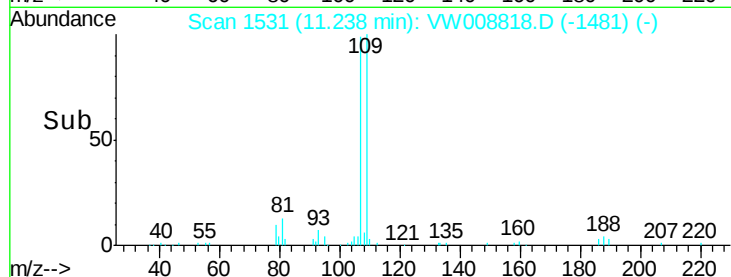
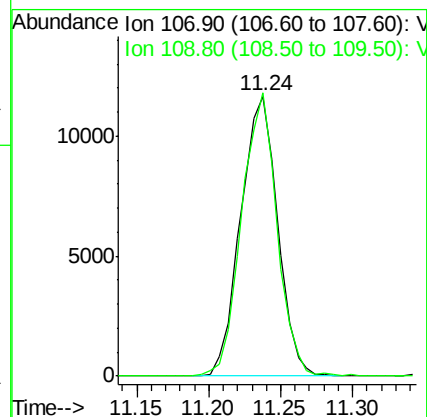
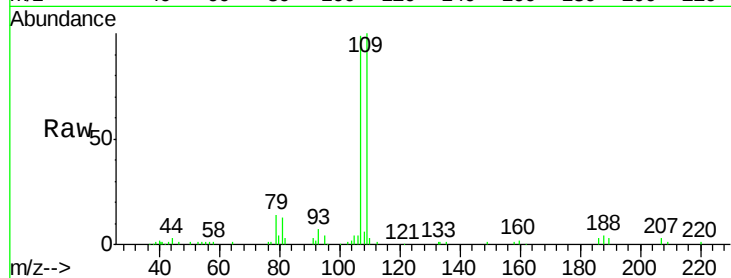
LOQ-SOIL-02-QT1-2019

Tot Ion:107 Resp: 20758

Ion Ratio Lower Upper

107 100

109 96.8 75.6 113.4



#62

4-Bromofluorobenzene

Concen: 57.120 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

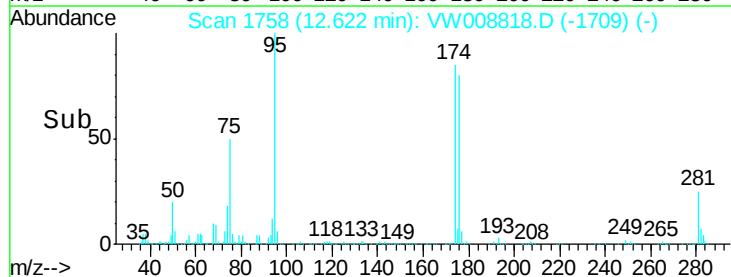
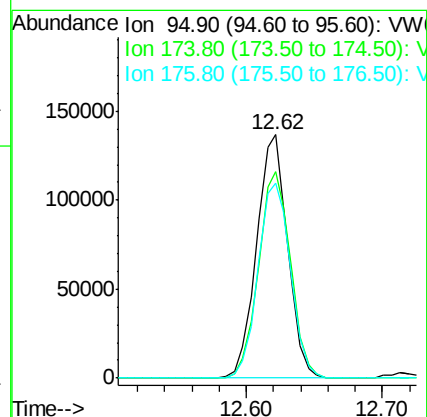
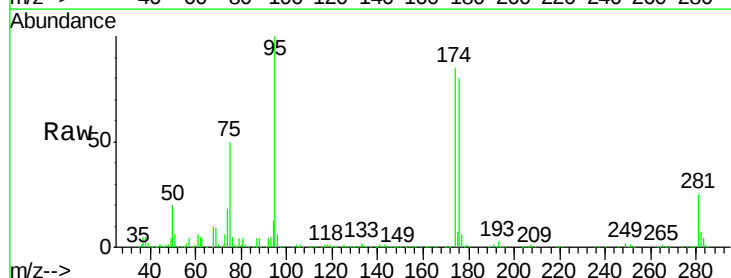
Tgt Ion: 95 Resp: 218777

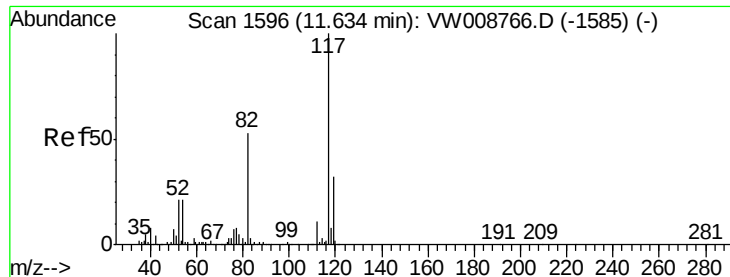
Ion Ratio Lower Upper

95 100

174 87.3 0.0 169.2

176 83.9 0.0 163.6

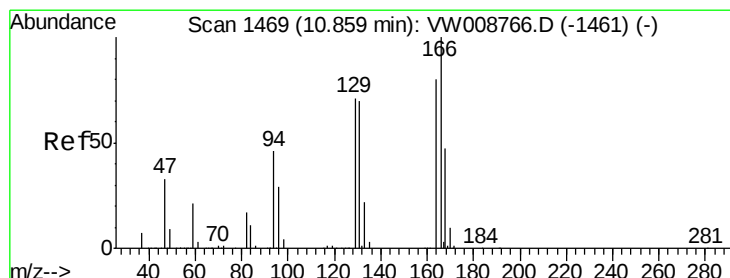
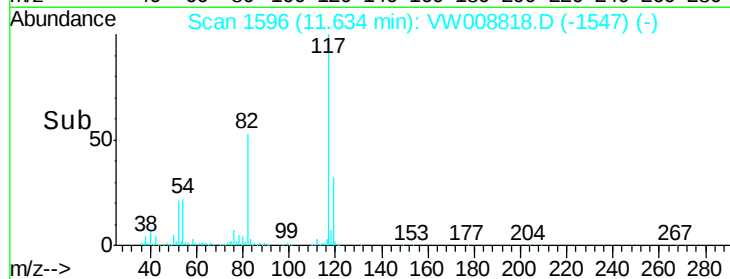
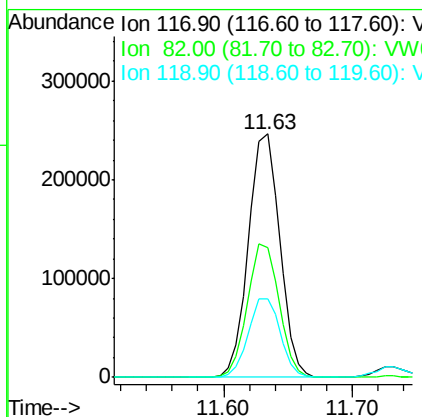
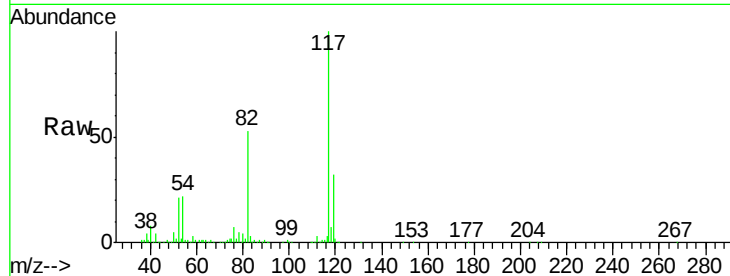




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW008818.D
Acq: 25 Feb 2019 20:16

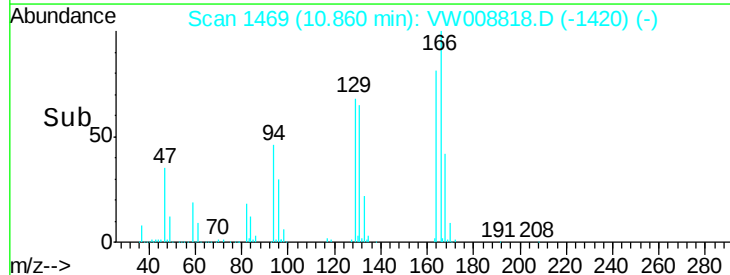
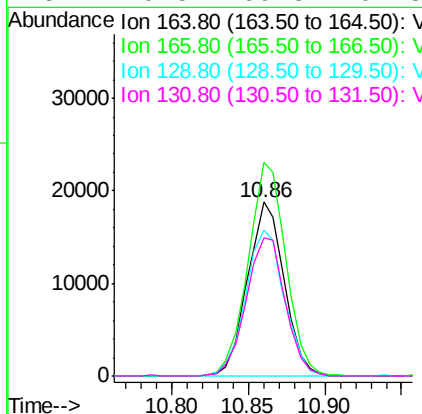
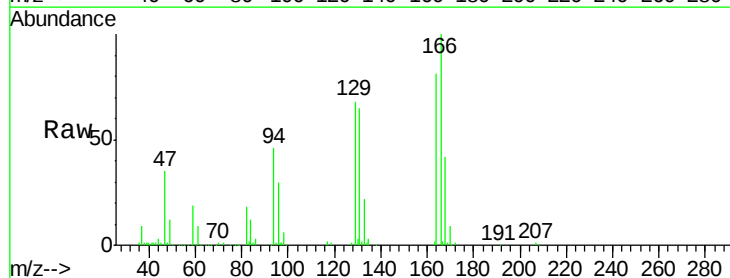
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2019

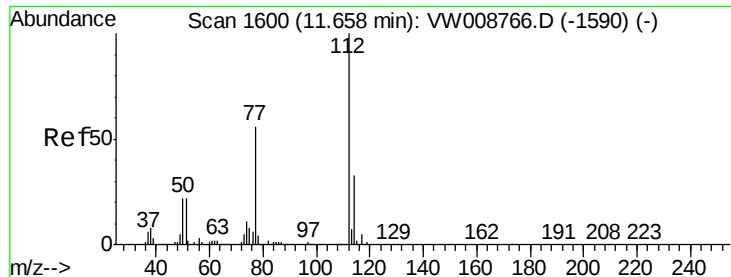
Tot Ion:117 Resp: 414223
Ion Ratio Lower Upper
117 100
82 53.2 42.2 63.4
119 32.2 25.9 38.9



#64
Tetrachloroethene
Concen: 10.529 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW008818.D
Acq: 25 Feb 2019 20:16

Tgt Ion:164 Resp: 31218
Ion Ratio Lower Upper
164 100
166 123.0 99.5 149.3
129 83.9 71.1 106.7
131 79.5 69.8 104.8





#65

Chlorobenzene

Concen: 10.435 ug/l

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

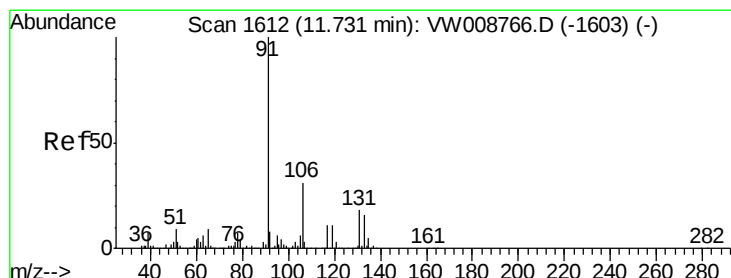
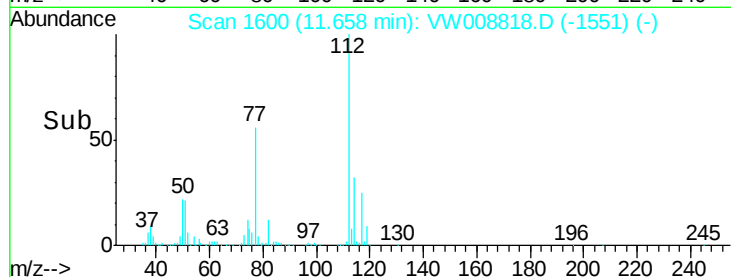
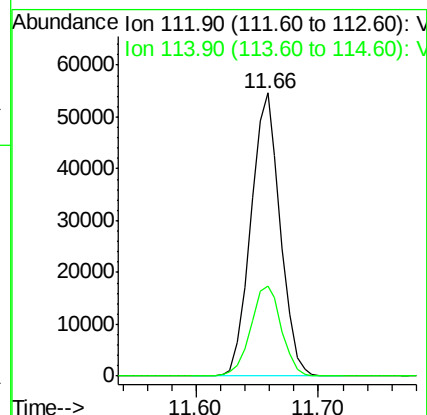
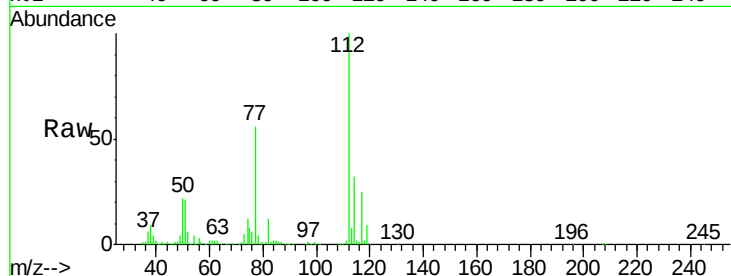
LOQ-SOIL-02-QT1-2019

Tot Ion:112 Resp: 90889

Ion Ratio Lower Upper

112 100

114 32.0 26.6 40.0



#66

1,1,1,2-Tetrachloroethane

Concen: 9.960 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

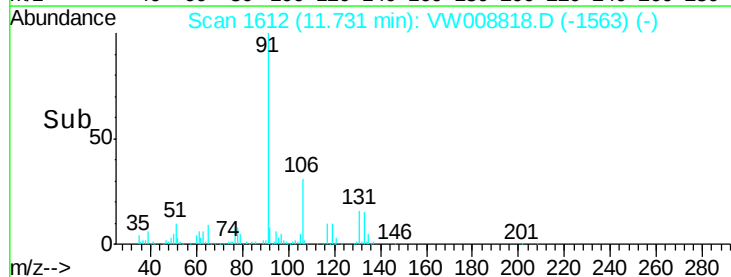
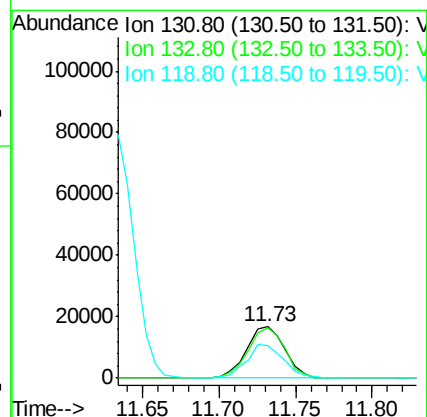
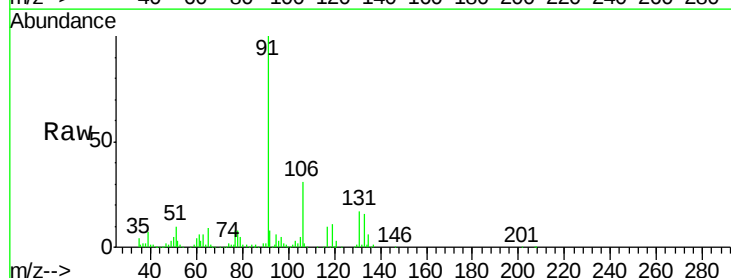
Tgt Ion:131 Resp: 29334

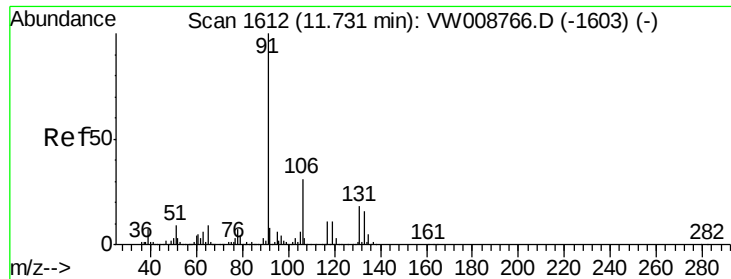
Ion Ratio Lower Upper

131 100

133 95.4 46.7 140.0

119 63.1 30.8 92.4

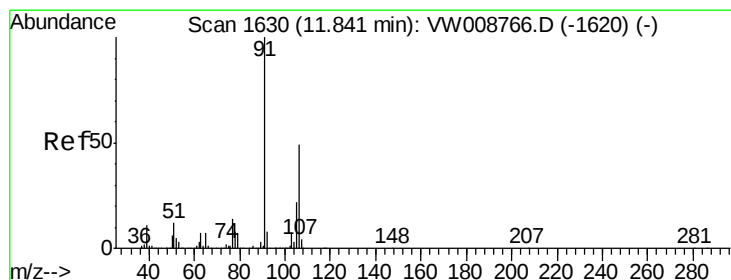
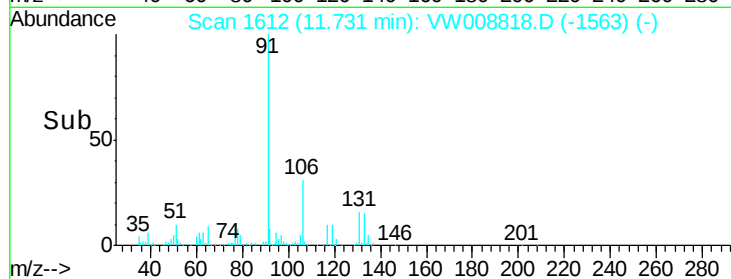
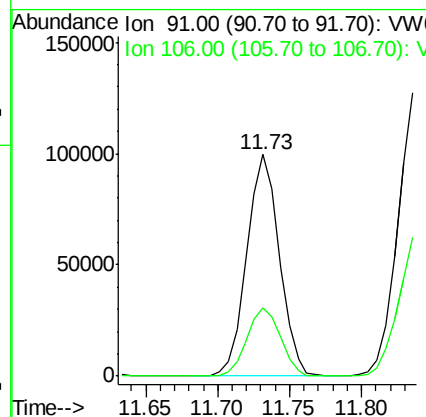
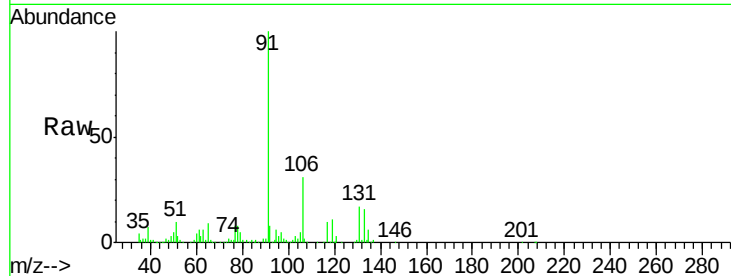




#67
Ethyl Benzene
Concen: 10.039 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW008818.D
Acq: 25 Feb 2019 20:16

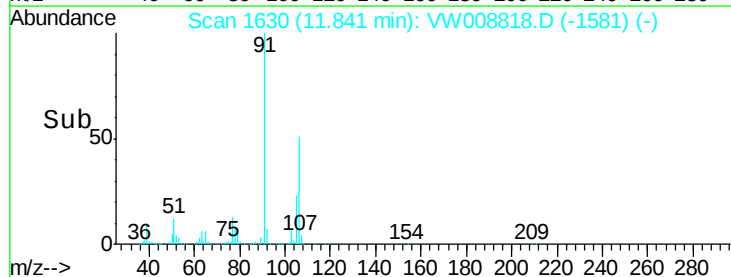
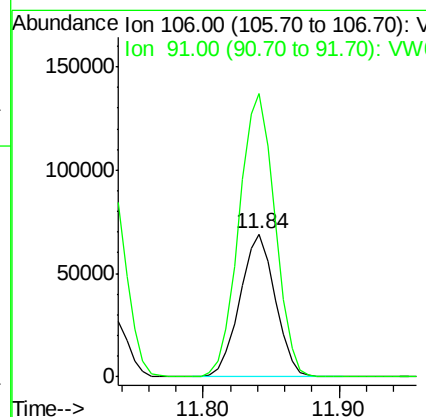
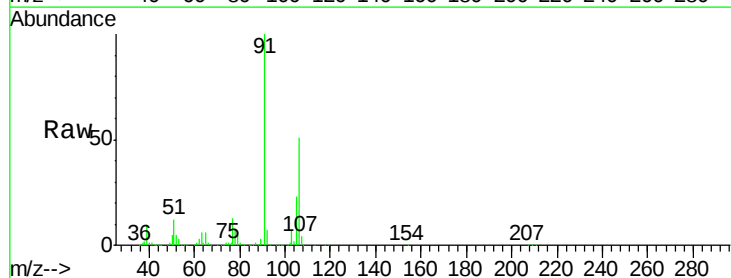
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2019

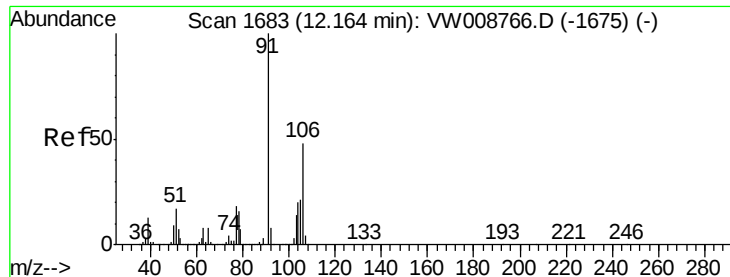
Tot Ion: 91 Resp: 156309
Ion Ratio Lower Upper
91 100
106 30.6 25.0 37.6



#68
m/p-Xylenes
Concen: 20.155 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW008818.D
Acq: 25 Feb 2019 20:16

Tgt Ion: 106 Resp: 125389
Ion Ratio Lower Upper
106 100
91 200.9 161.5 242.3

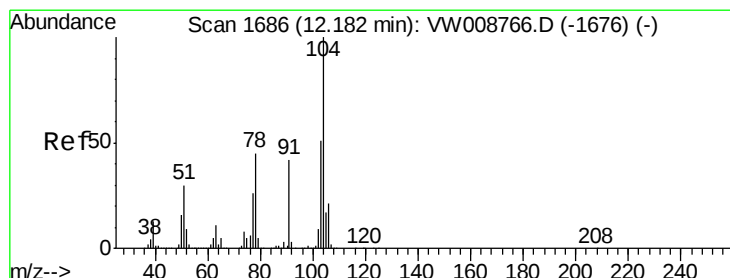
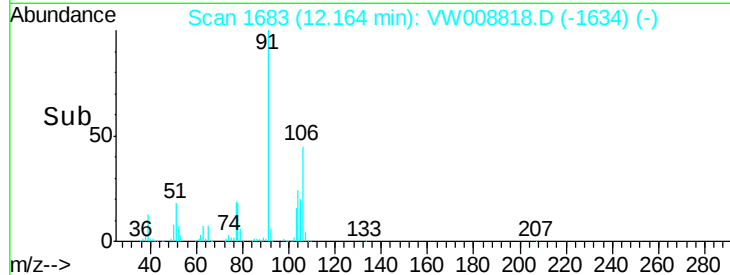
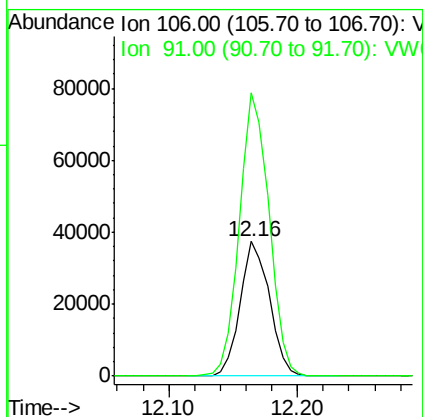
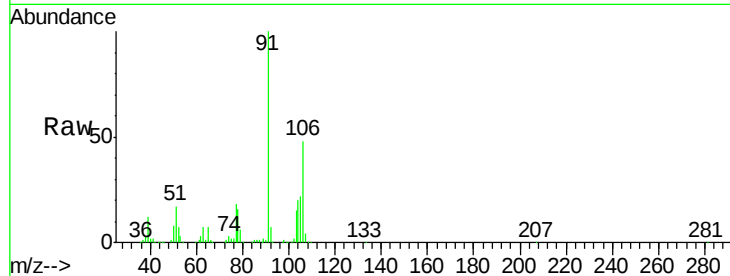




#69
o-Xylene
Concen: 10.069 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW008818.D
Acq: 25 Feb 2019 20:16

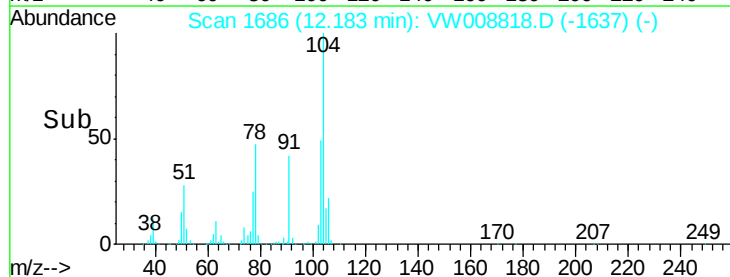
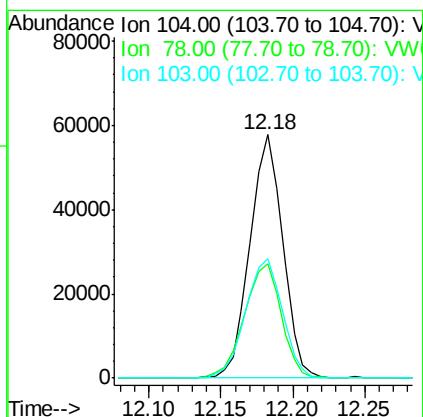
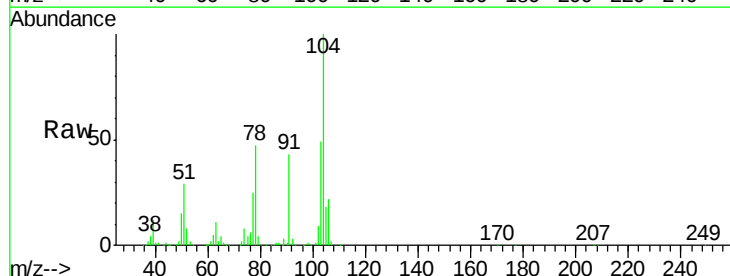
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2019

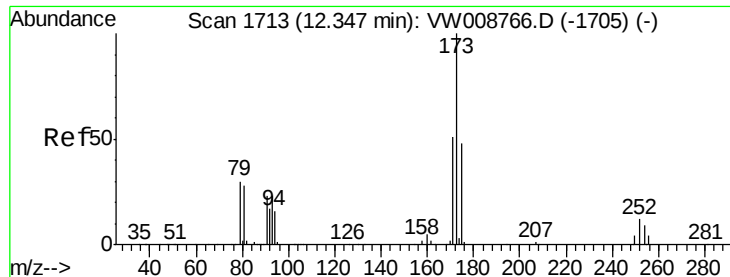
Tot Ion:106 Resp: 58797
Ion Ratio Lower Upper
106 100
91 212.7 106.2 318.6



#70
Styrene
Concen: 9.719 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW008818.D
Acq: 25 Feb 2019 20:16

Tgt Ion:104 Resp: 91302
Ion Ratio Lower Upper
104 100
78 52.7 40.8 61.2
103 55.1 44.2 66.2

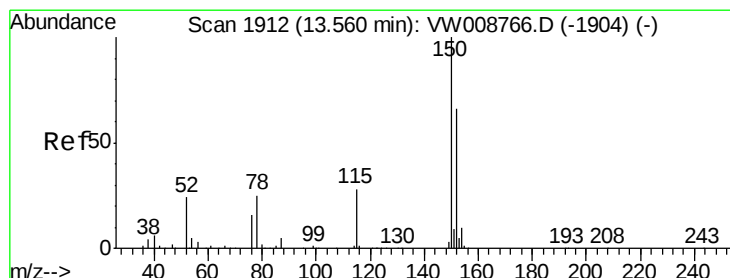
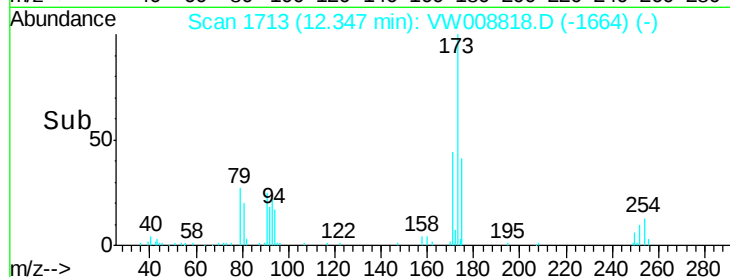
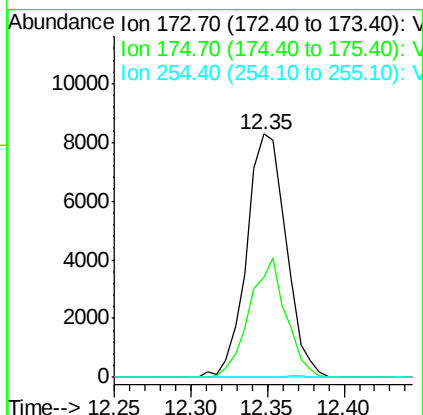
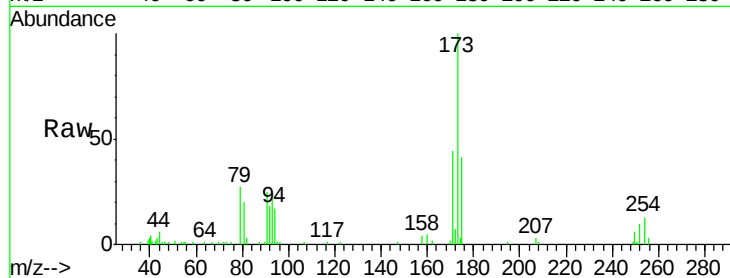




#71
Bromoform
Concen: 9.391 ug/l
RT: 12.35 min Scan# 1713
Delta R.T. 0.00 min
Lab File: VW008818.D
Acq: 25 Feb 2019 20:16

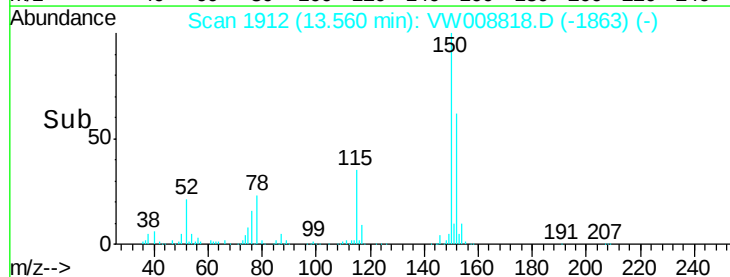
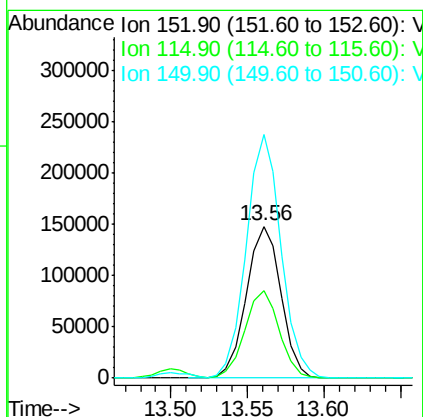
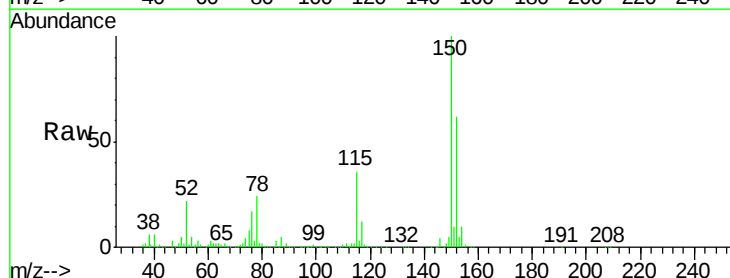
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2019

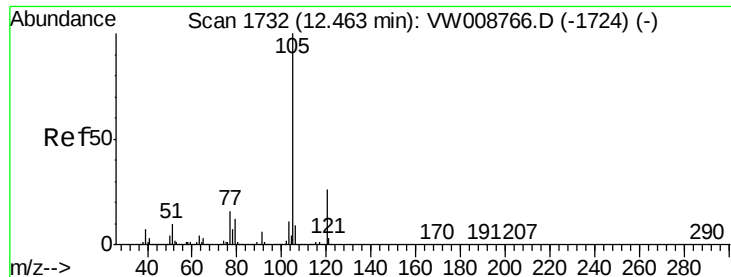
Tot Ion:173 Resp: 14866
Ion Ratio Lower Upper
173 100
175 45.5 24.2 72.6
254 0.0 0.2 0.4#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW008818.D
Acq: 25 Feb 2019 20:16

Tgt Ion:152 Resp: 232308
Ion Ratio Lower Upper
152 100
115 57.4 28.6 85.8
150 161.2 0.0 348.0





#73

Isopropylbenzene

Concen: 9.720 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

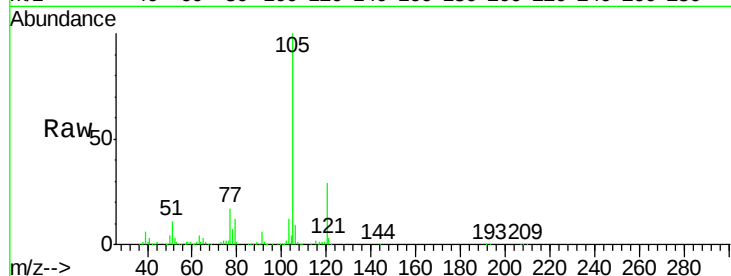
LOQ-SOIL-02-QT1-2019

Tot Ion:105 Resp: 154804

Ion Ratio Lower Upper

105 100

120 28.0 13.3 39.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

100000

80000

60000

40000

20000

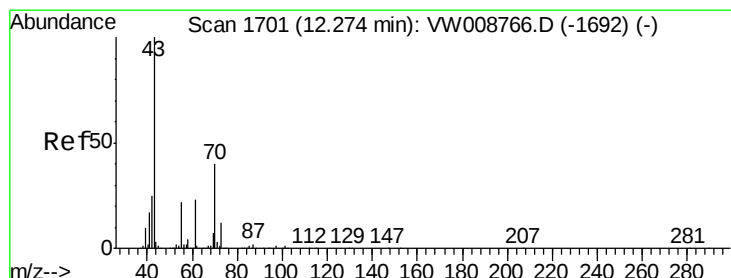
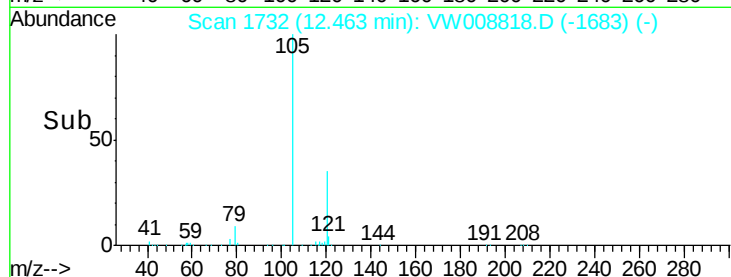
0

12.46

12.40

12.50

Time-->



#74

N-ethyl acetate

Concen: 9.163 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Tgt Ion: 43 Resp: 36757

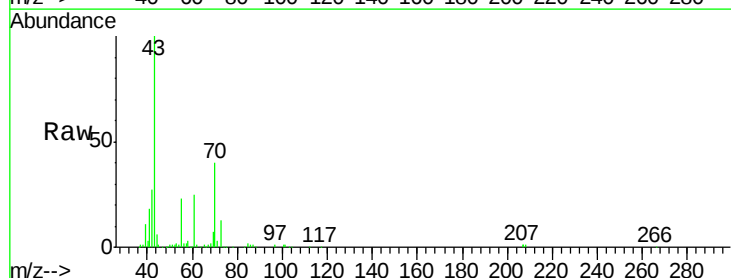
Ion Ratio Lower Upper

43 100

70 41.4 31.0 46.6

55 24.1 18.7 28.1

61 22.0 18.1 27.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW

30000

20000

10000

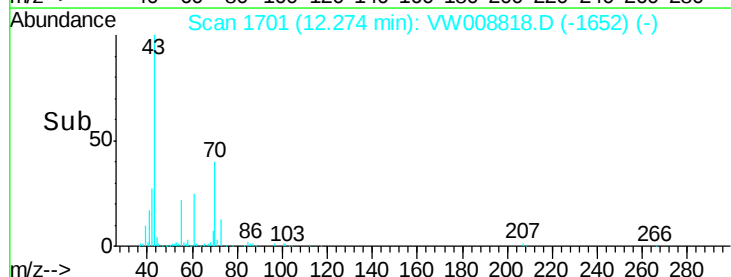
0

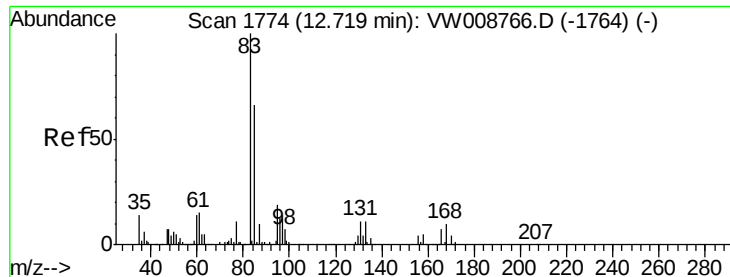
12.27

12.20

12.30

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 9.490 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.01 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2019

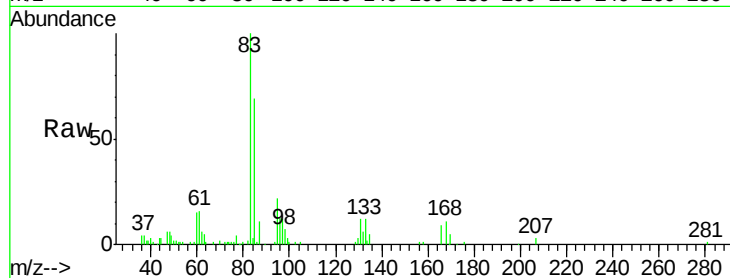
Tot Ion: 83 Resp: 24696

Ion Ratio Lower Upper

83 100

131 12.5 5.5 16.7

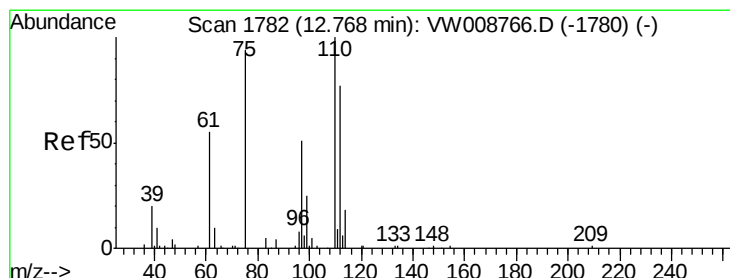
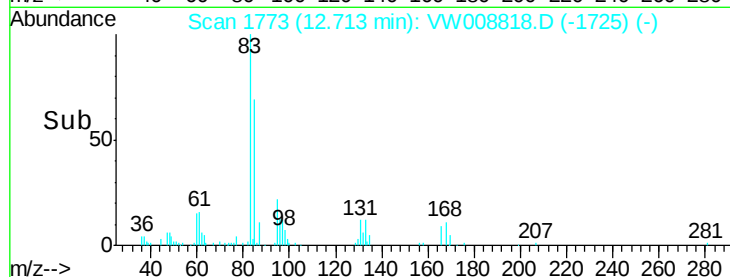
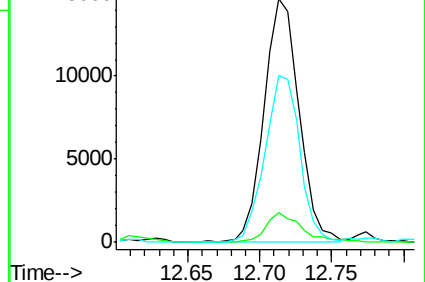
85 68.2 33.0 98.9



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 11.066 ug/l m

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW008818.D

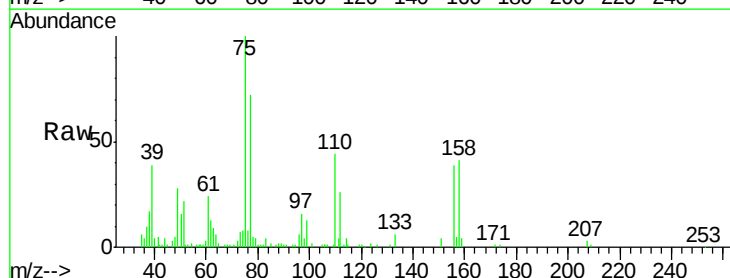
Acq: 25 Feb 2019 20:16

Tgt Ion: 75 Resp: 21225

Ion Ratio Lower Upper

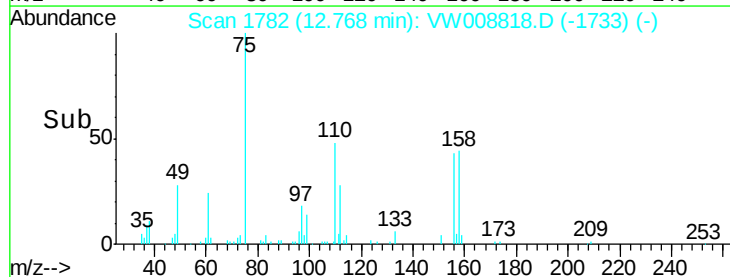
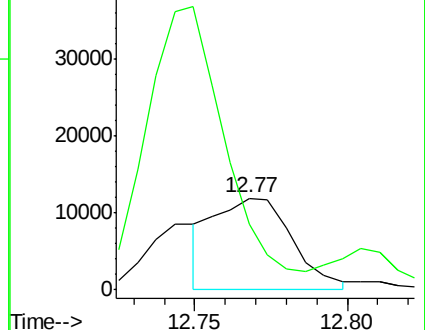
75 100

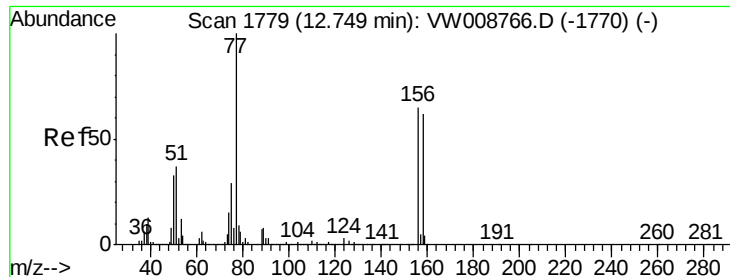
77 320.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 10.628 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. -0.01 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2019

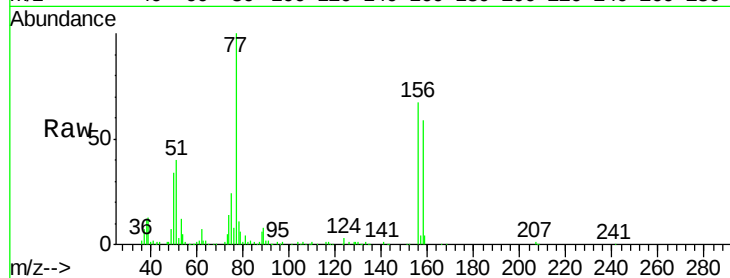
Tot Ion:156 Resp: 39996

Ion Ratio Lower Upper

156 100

77 169.8 89.1 267.4

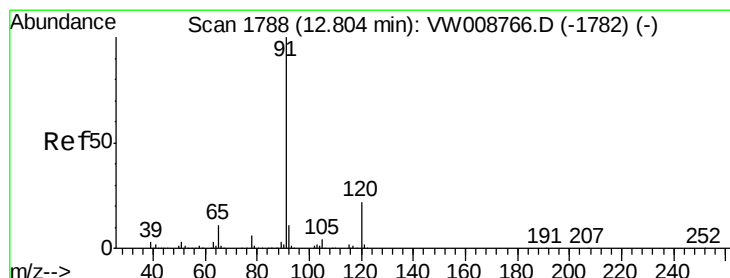
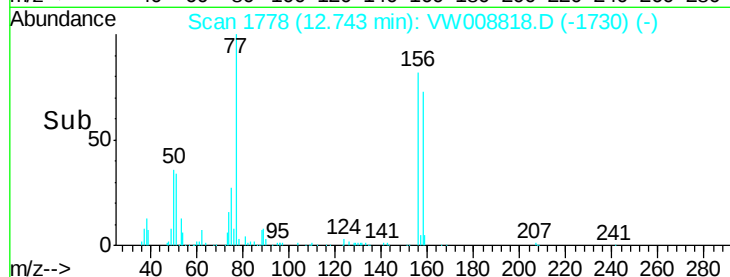
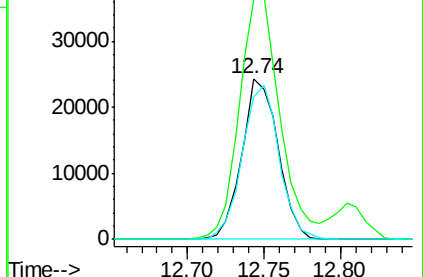
158 97.9 49.2 147.6



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: 9.991 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. 0.00 min

Lab File: VW008818.D

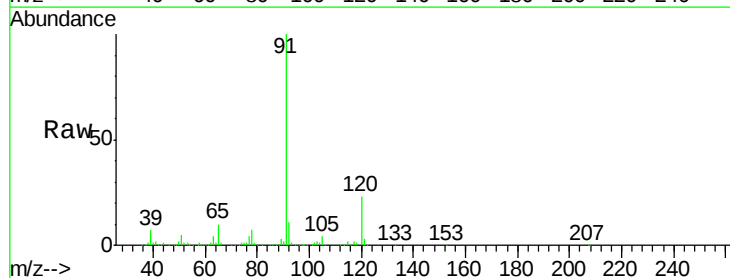
Acq: 25 Feb 2019 20:16

Tgt Ion: 91 Resp: 194642

Ion Ratio Lower Upper

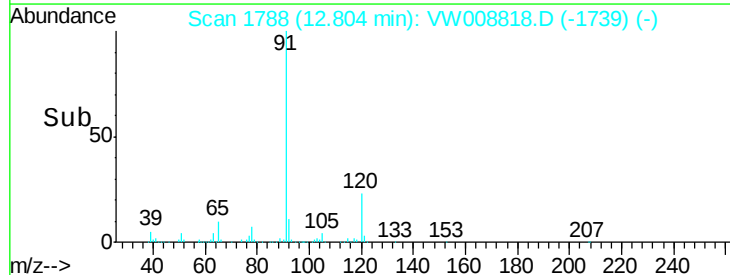
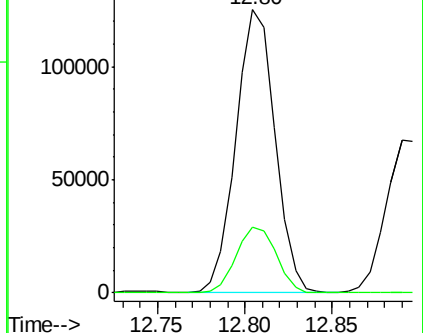
91 100

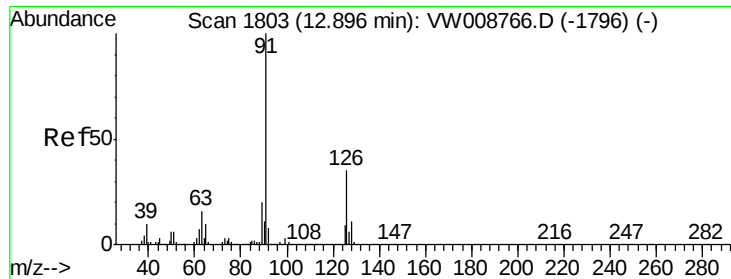
120 24.0 11.5 34.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 10.351 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.01 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

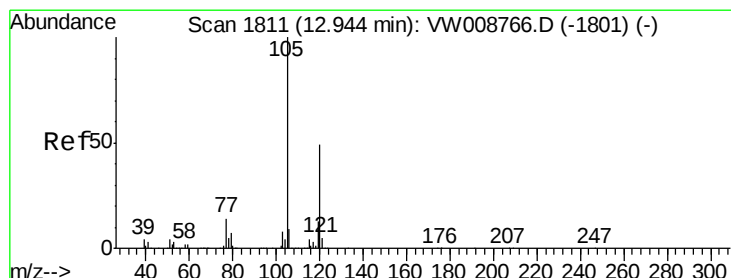
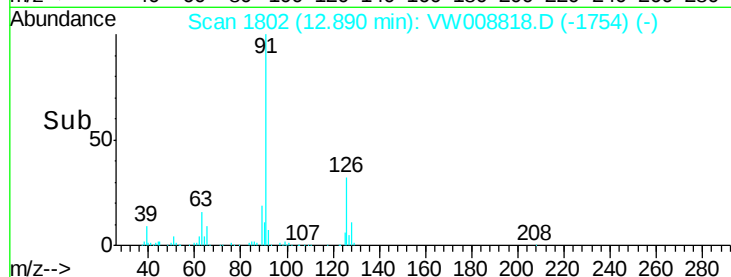
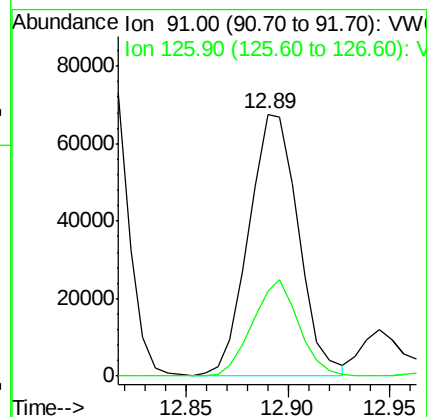
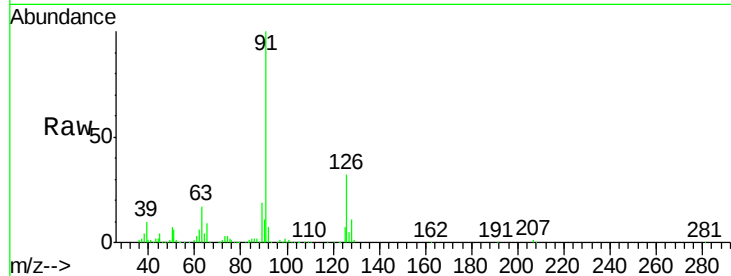
LOQ-SOIL-02-QT1-2019

Tot Ion: 91 Resp: 114488

Ion Ratio Lower Upper

91 100

126 34.0 17.0 51.0



#80

1,3,5-Trimethylbenzene

Concen: 10.058 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW008818.D

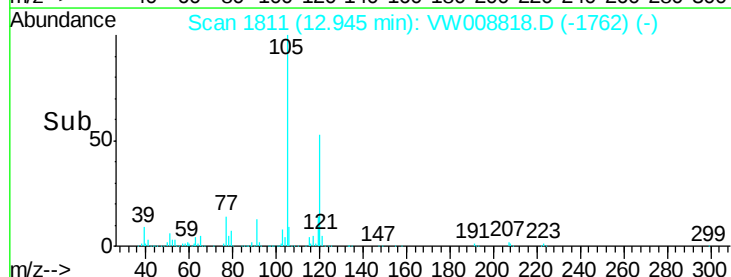
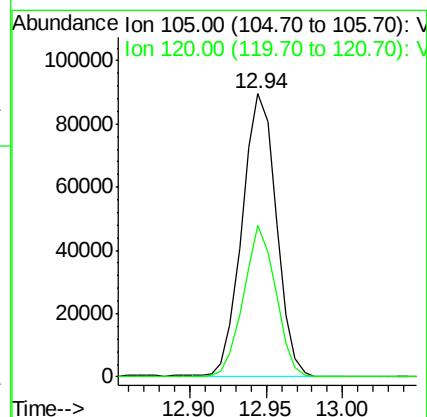
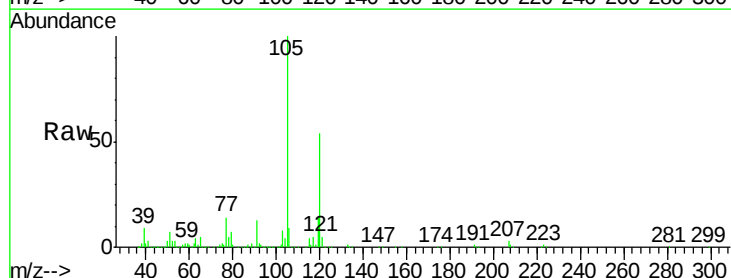
Acq: 25 Feb 2019 20:16

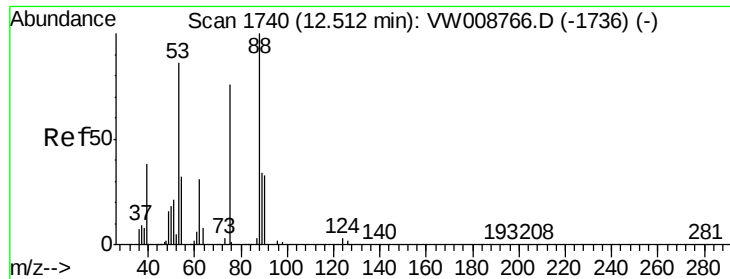
Tgt Ion:105 Resp: 139205

Ion Ratio Lower Upper

105 100

120 50.6 24.8 74.4





#81

trans-1,4-Dichloro-2-butene

Concen: 8.558 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

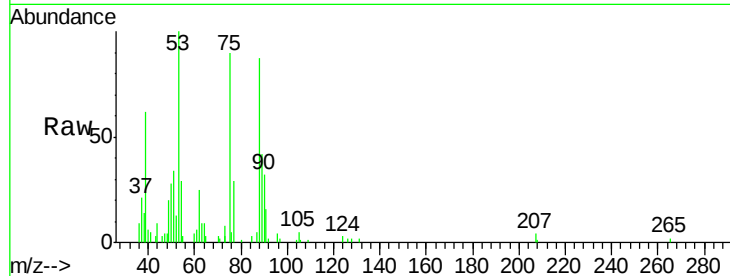
MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2019

Tot Ion: 75 Resp: 6752

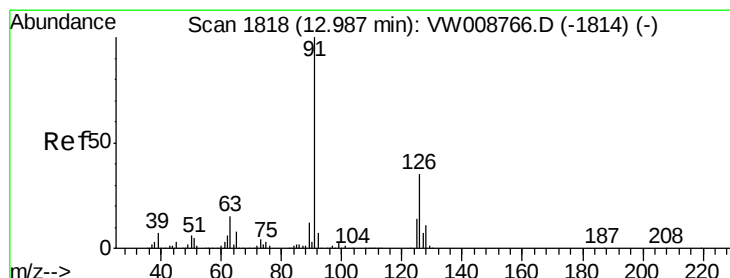
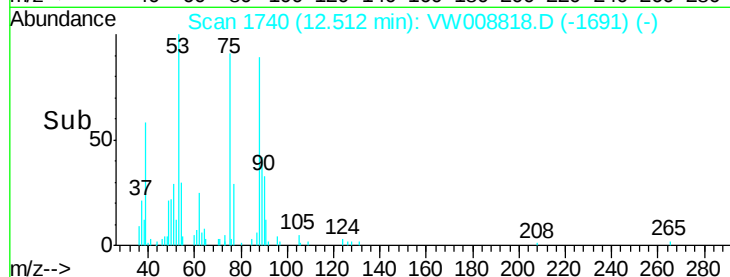
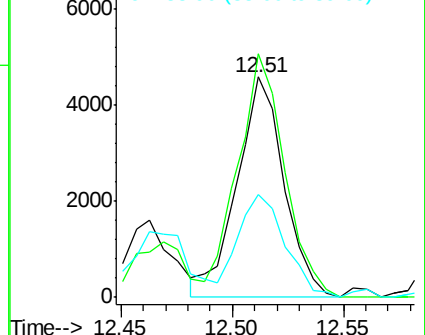
Ion	Ratio	Lower	Upper
75	100		
53	109.7	88.2	132.2
89	46.4	39.5	59.3



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW



#82

4-Chlorotoluene

Concen: 10.179 ug/l

RT: 12.99 min Scan# 1818

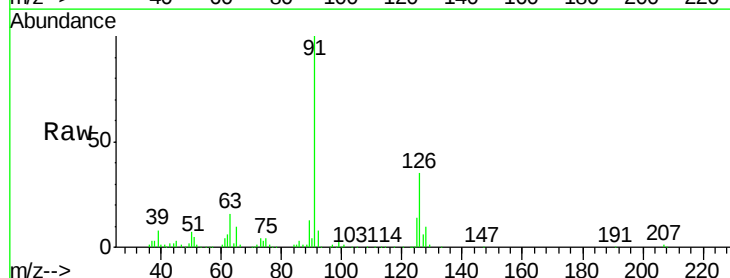
Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

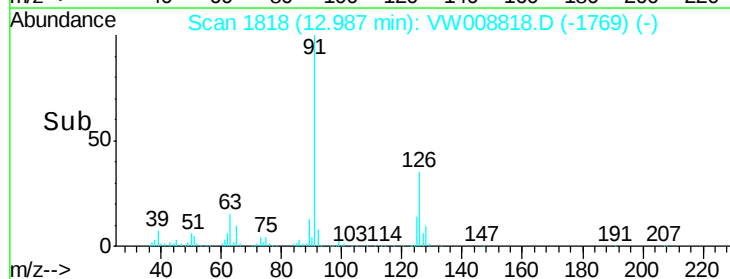
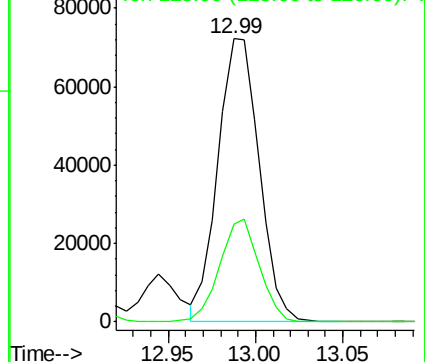
Tgt Ion: 91 Resp: 118639

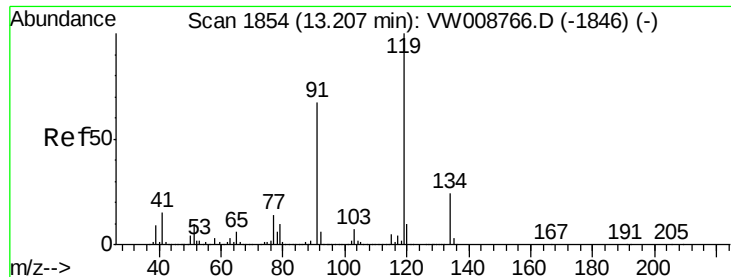
Ion	Ratio	Lower	Upper
91	100		
126	35.0	17.2	51.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V

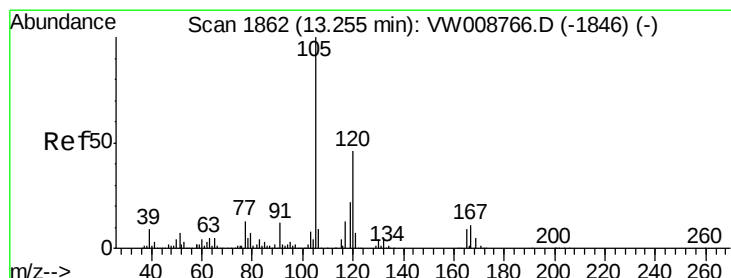
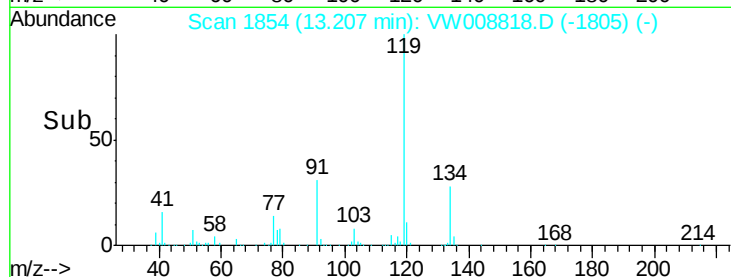
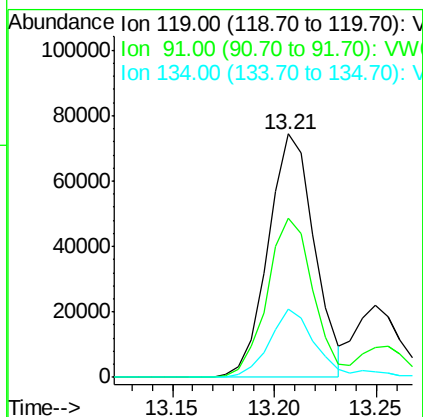
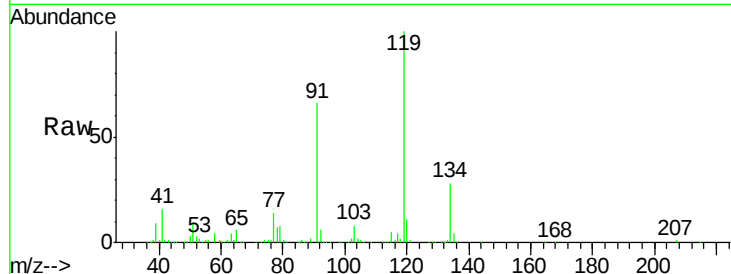




#83
tert-Butylbenzene
Concen: 9.840 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VW008818.D
Acq: 25 Feb 2019 20:16

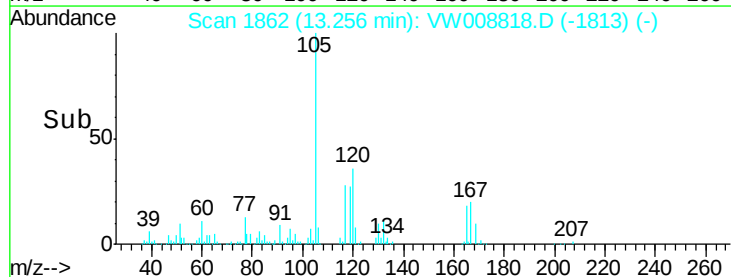
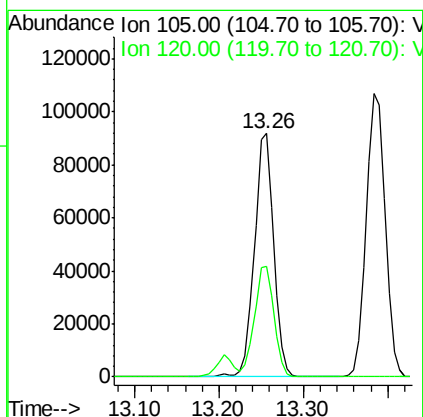
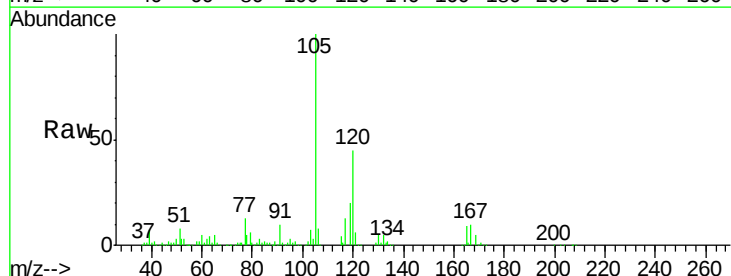
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2019

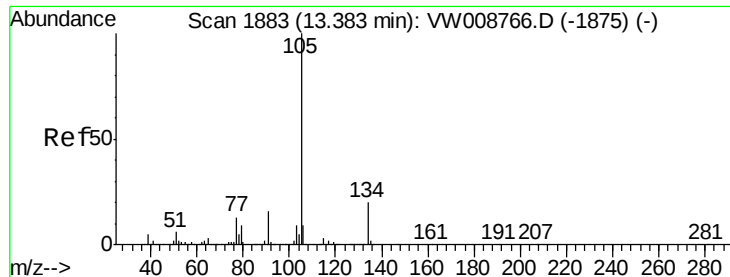
Tot Ion:119 Resp: 117754
Ion Ratio Lower Upper
119 100
91 65.9 33.6 100.8
134 26.9 13.7 41.1



#84
1,2,4-Trimethylbenzene
Concen: 9.953 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VW008818.D
Acq: 25 Feb 2019 20:16

Tgt Ion:105 Resp: 142592
Ion Ratio Lower Upper
105 100
120 46.0 22.8 68.4





#85

sec-Butylbenzene

Concen: 9.802 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

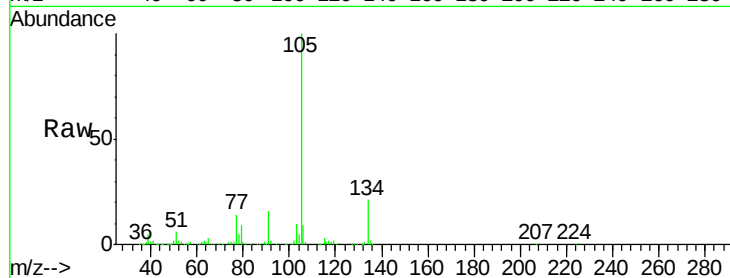
LOQ-SOIL-02-QT1-2019

Tot Ion:105 Resp: 168668

Ion Ratio Lower Upper

105 100

134 21.0 10.4 31.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

120000

100000

80000

60000

40000

20000

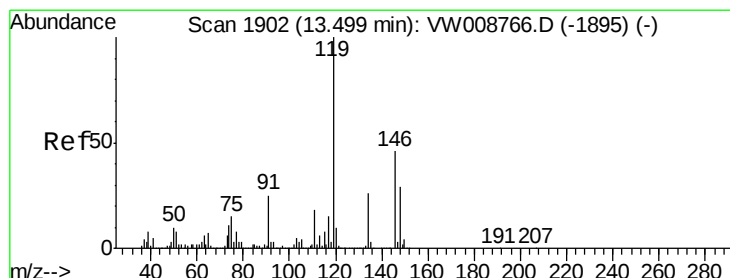
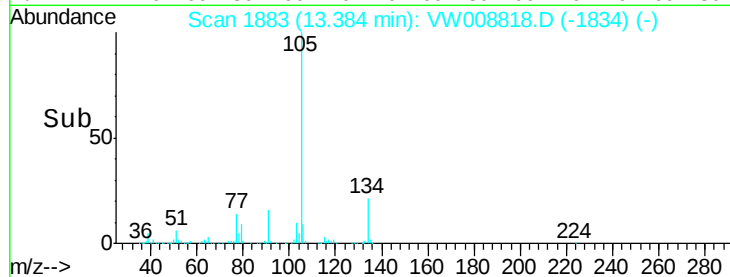
0

13.38

13.30

13.40

Time-->



#86

p-Isopropyltoluene

Concen: 9.630 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

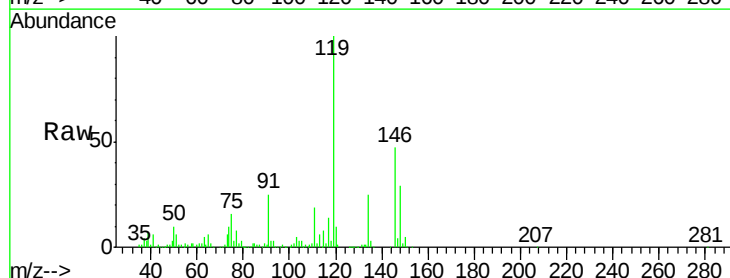
Tgt Ion:119 Resp: 151909

Ion Ratio Lower Upper

119 100

134 27.0 13.1 39.3

91 24.2 12.1 36.3



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

100000

50000

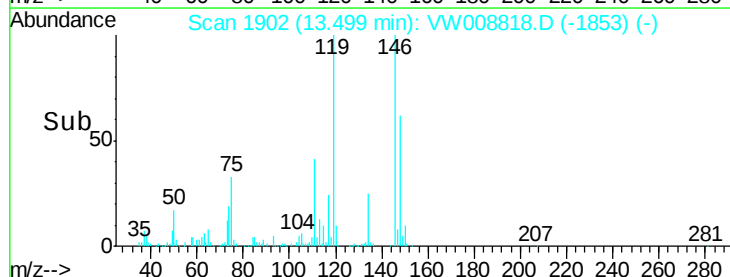
0

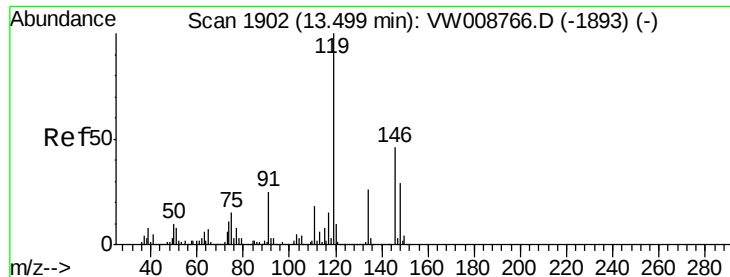
13.50

13.45

13.55

Time-->

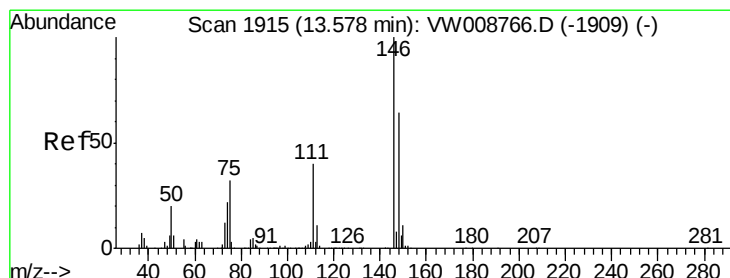
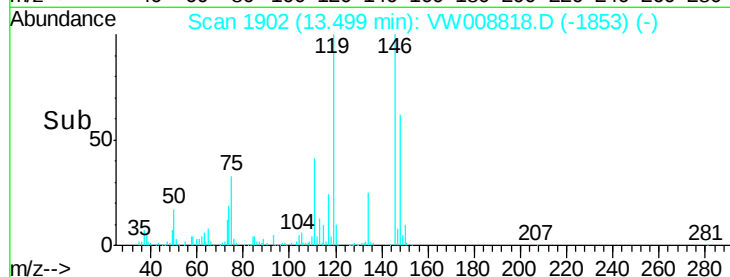
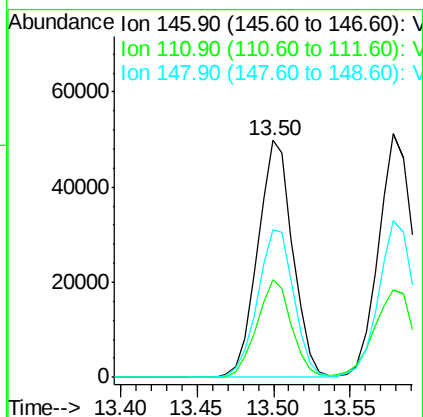
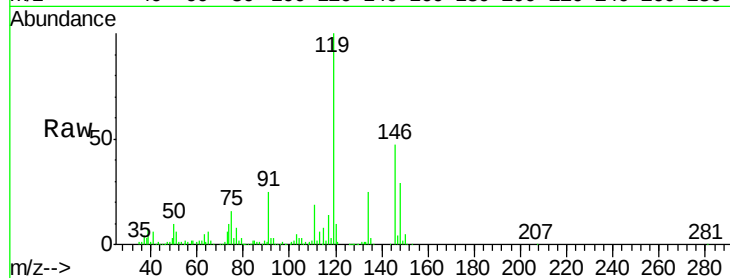




#87
 1,3-Dichlorobenzene
 Concen: 10.203 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW008818.D
 Acq: 25 Feb 2019 20:16

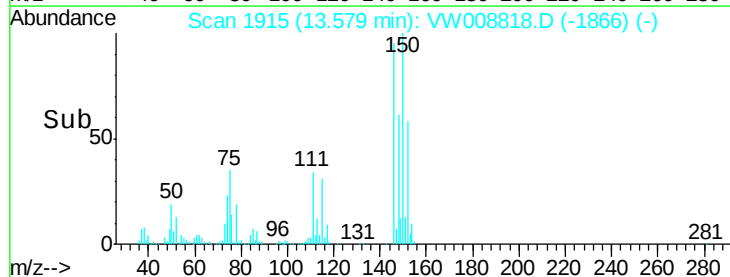
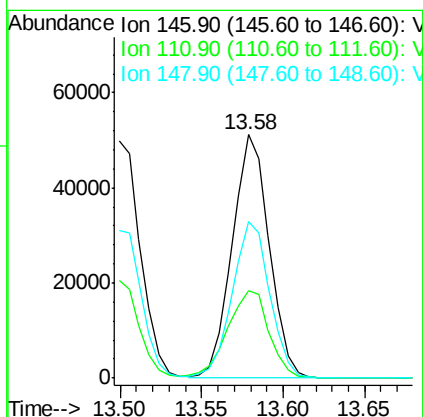
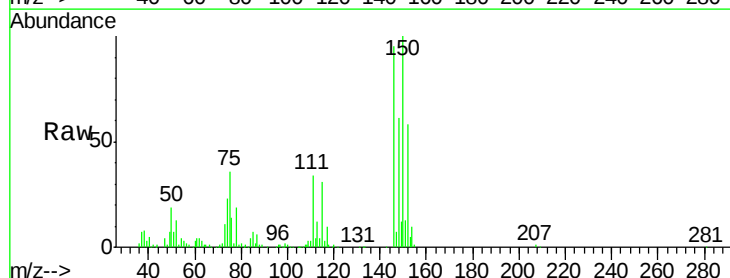
Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

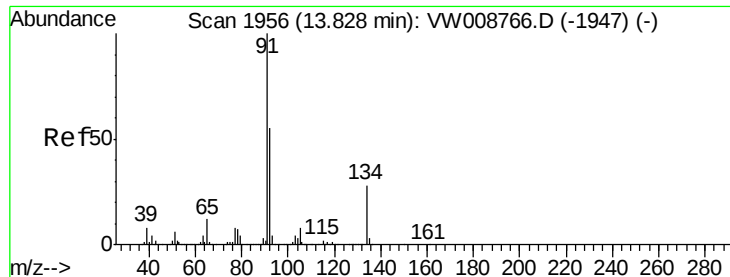
Tot Ion:146 Resp: 79664
 Ion Ratio Lower Upper
 146 100
 111 40.5 19.9 59.7
 148 64.1 31.6 94.8



#88
 1,4-Dichlorobenzene
 Concen: 10.509 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW008818.D
 Acq: 25 Feb 2019 20:16

Tgt Ion:146 Resp: 80875
 Ion Ratio Lower Upper
 146 100
 111 40.6 19.3 57.9
 148 65.3 31.9 95.9





#89

n-Butylbenzene

Concen: 9.667 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2019

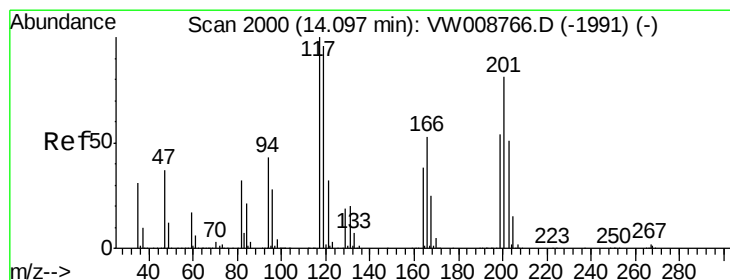
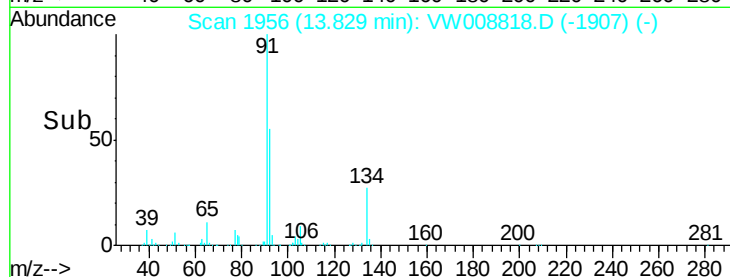
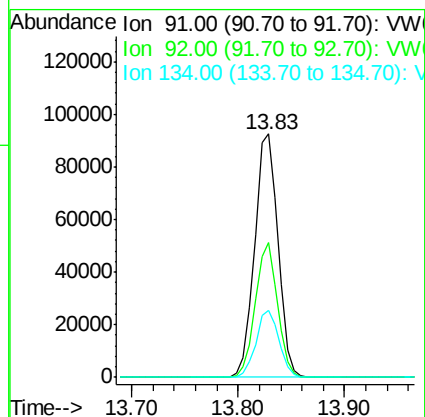
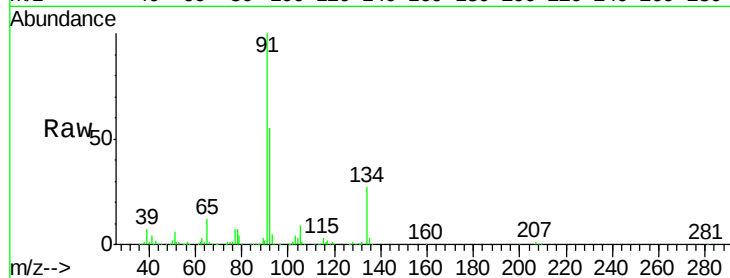
Tot Ion: 91 Resp: 142861

Ion Ratio Lower Upper

91 100

92 52.6 26.8 80.4

134 27.1 13.5 40.4



#90

Hexachloroethane

Concen: 9.580 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. 0.00 min

Lab File: VW008818.D

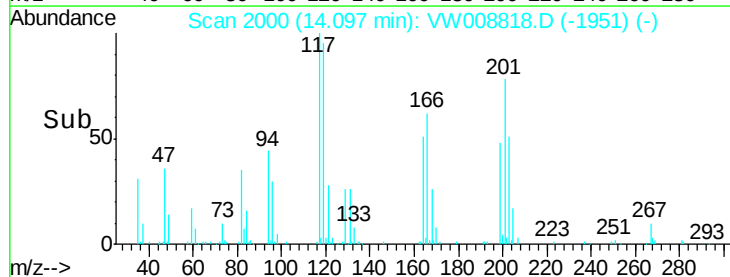
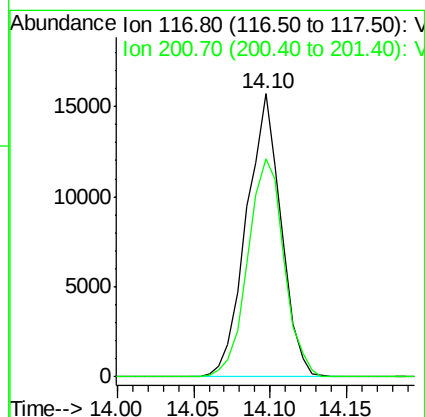
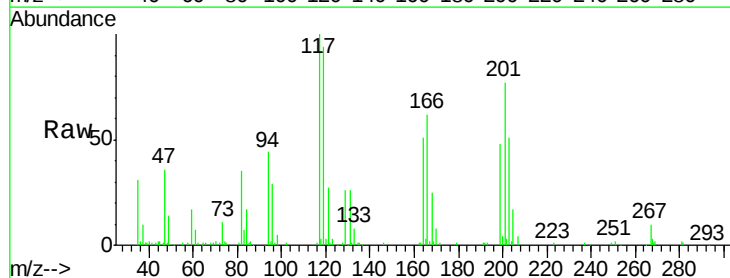
Acq: 25 Feb 2019 20:16

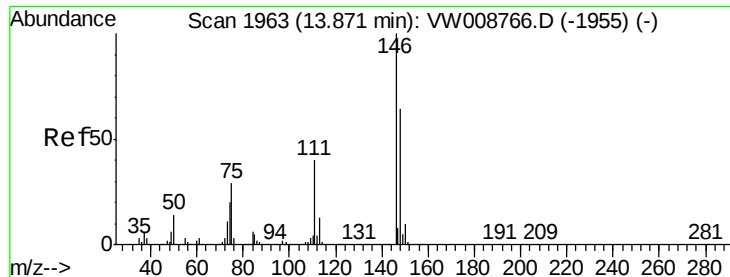
Tgt Ion: 117 Resp: 24738

Ion Ratio Lower Upper

117 100

201 80.7 40.3 120.8

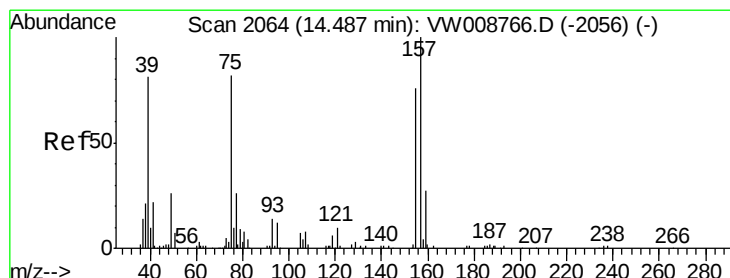
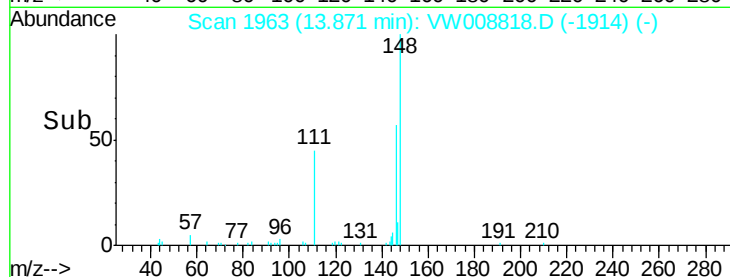
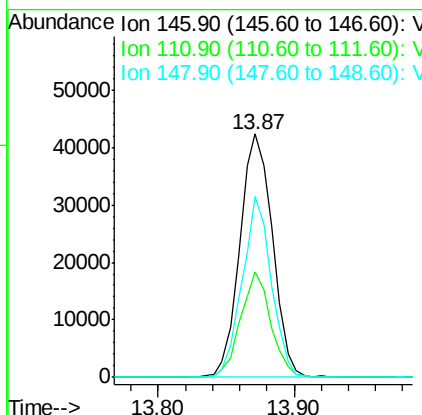
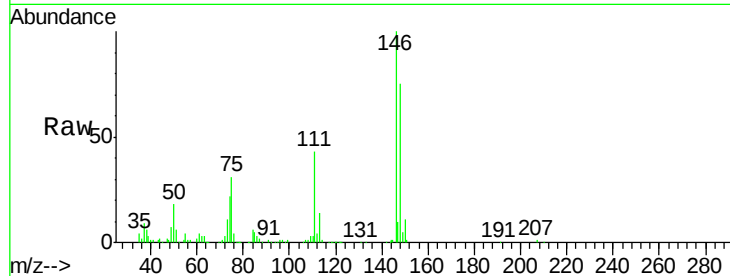




#91
 1,2-Dichlorobenzene
 Concen: 10.226 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW008818.D
 Acq: 25 Feb 2019 20:16

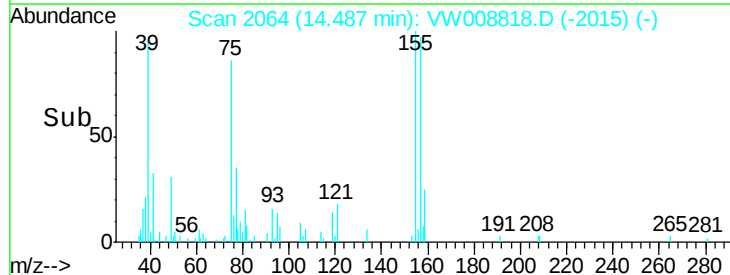
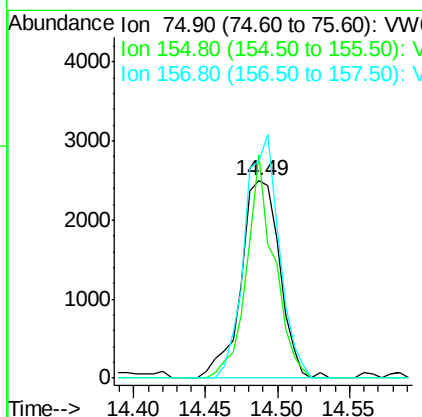
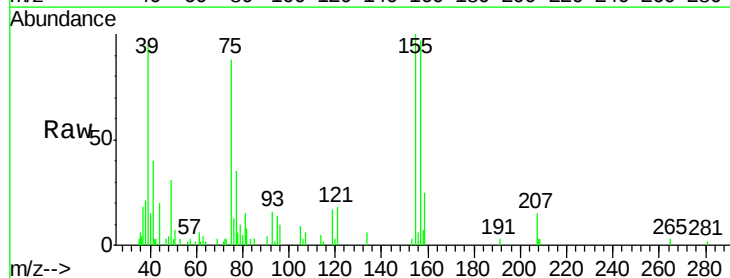
Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

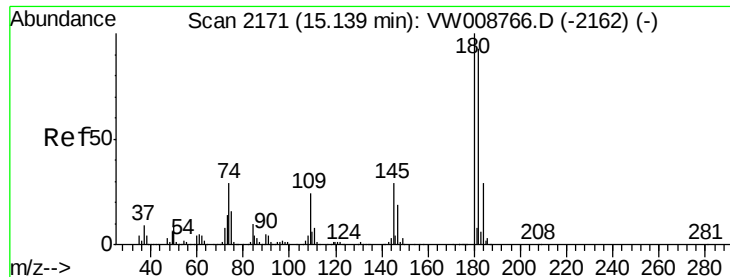
Tot Ion:146 Resp: 71142
 Ion Ratio Lower Upper
 146 100
 111 40.2 20.3 60.8
 148 66.4 32.5 97.5



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 9.847 ug/l
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW008818.D
 Acq: 25 Feb 2019 20:16

Tgt Ion: 75 Resp: 4635
 Ion Ratio Lower Upper
 75 100
 155 80.0 41.8 125.4
 157 108.6 56.6 169.9

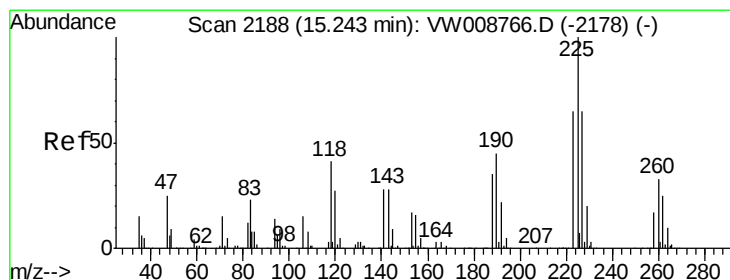
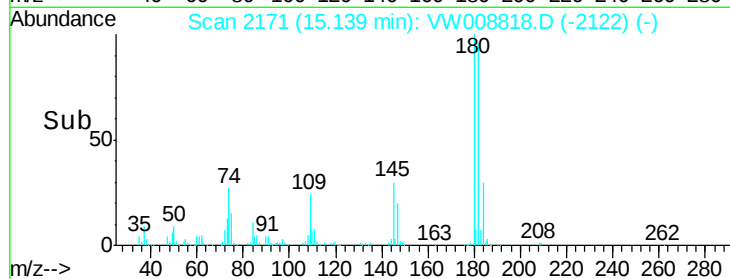
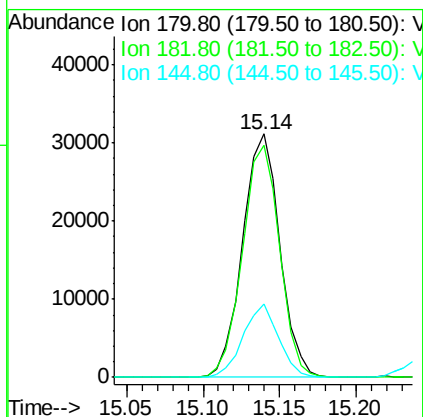
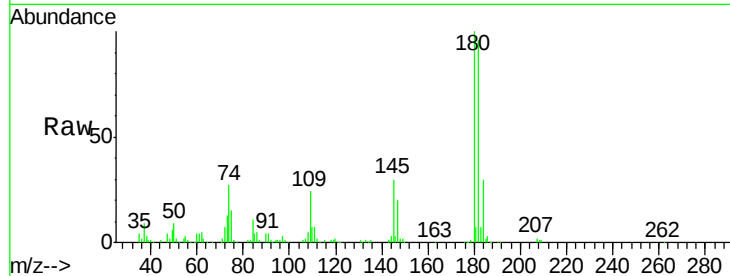




#93
 1,2,4-Trichlorobenzene
 Concen: 10.535 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW008818.D
 Acq: 25 Feb 2019 20:16

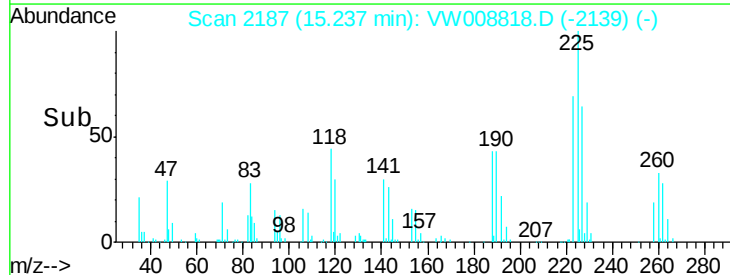
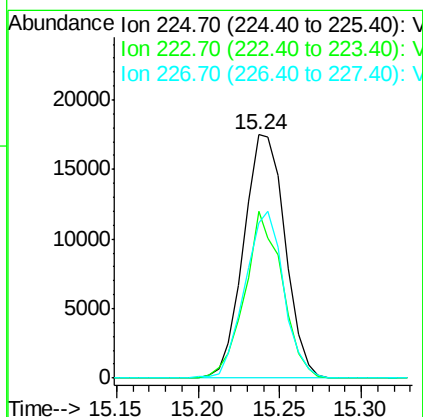
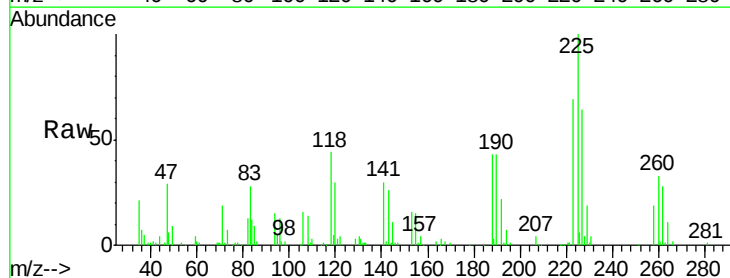
Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT1-2019

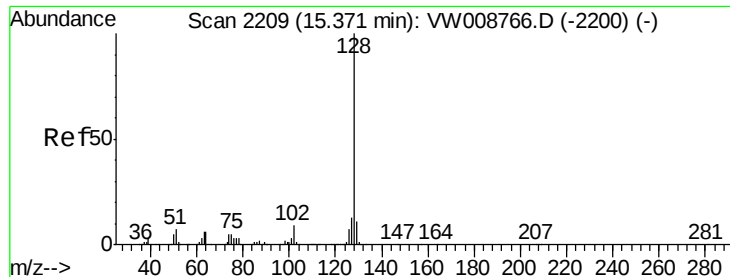
Tot Ion:180 Resp: 52811
 Ion Ratio Lower Upper
 180 100
 182 94.5 47.2 141.6
 145 28.6 14.4 43.0



#94
 Hexachlorobutadiene
 Concen: 10.454 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. -0.01 min
 Lab File: VW008818.D
 Acq: 25 Feb 2019 20:16

Tgt Ion:225 Resp: 30867
 Ion Ratio Lower Upper
 225 100
 223 62.1 31.5 94.5
 227 64.5 31.6 94.8





#95

Naphthalene

Concen: 9.272 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2019

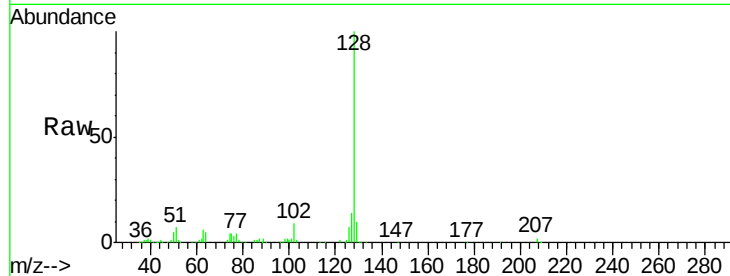
Tot Ion:128 Resp: 79132

Ion Ratio Lower Upper

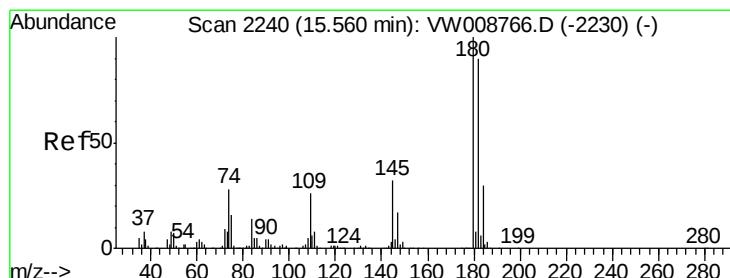
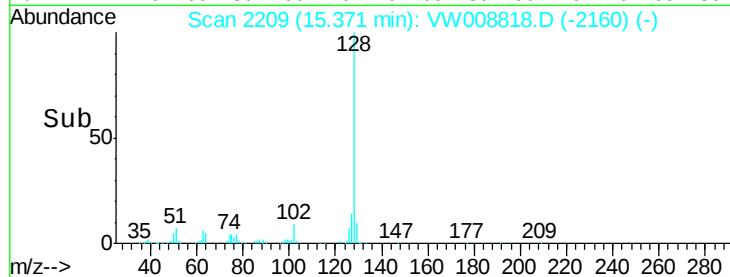
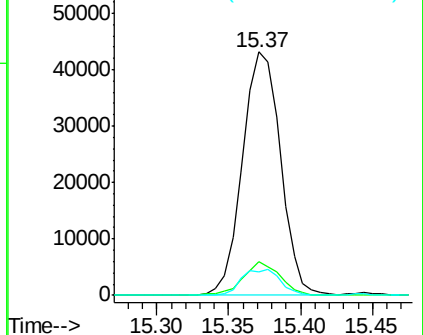
128 100

127 13.5 10.8 16.2

129 10.9 8.7 13.1



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



#96

1,2,3-Trichlorobenzene

Concen: 10.246 ug/l

RT: 15.56 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VW008818.D

Acq: 25 Feb 2019 20:16

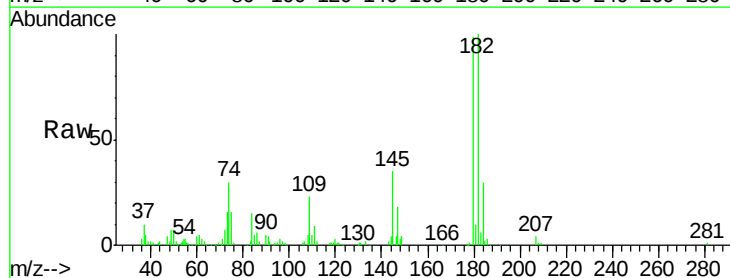
Tgt Ion:180 Resp: 44408

Ion Ratio Lower Upper

180 100

182 96.6 46.9 140.8

145 31.5 15.9 47.6



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

