

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW070819\
 Data File : VW011167.D
 Acq On : 08 Jul 2019 18:07
 Operator : SY/VA
 Sample : K3591-02L005PPB
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT3-2019

Quant Time: Jul 09 06:54:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W070819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 09 06:41:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	227438	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	377070	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	336435	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	165853	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	140436	49.14	ug/l	0.00
Spiked Amount			Recovery	=	98.28%	
35) Dibromofluoromethane	7.88	113	108849	48.43	ug/l	0.00
Spiked Amount			Recovery	=	96.86%	
50) Toluene-d8	10.32	98	444965	48.98	ug/l	0.00
Spiked Amount			Recovery	=	97.96%	
62) 4-Bromofluorobenzene	12.62	95	161989	48.65	ug/l	0.00
Spiked Amount			Recovery	=	97.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.01	85	7571	4.463	ug/l	96
3) Chloromethane	2.21	50	11378	5.206	ug/l	100
4) Vinyl Chloride	2.35	62	14341	5.013	ug/l	92
5) Bromomethane	2.77	94	7658	5.327	ug/l	90
6) Chloroethane	2.92	64	7376	4.787	ug/l	99
7) Trichlorofluoromethane	3.24	101	3820	3.759	ug/l	94
8) Diethyl Ether	3.68	74	6763	4.809	ug/l	83
9) 1,1,2-Trichlorotrifluoroet	4.06	101	11885	4.882	ug/l	97
10) Methyl Iodide	4.28	142	16553	4.944	ug/l	99
11) Tert butyl alcohol	5.17	59	5566	26.306	ug/l	94
12) 1,1-Dichloroethene	4.03	96	12301	4.869	ug/l	93
13) Acrolein	3.90	56	3319	19.699	ug/l	90
14) Allyl chloride	4.66	41	20274	4.400	ug/l	98
15) Acrylonitrile	5.37	53	16859	23.541	ug/l	95
16) Acetone	4.12	43	16625	24.177	ug/l	99
17) Carbon Disulfide	4.38	76	34052	4.446	ug/l	97
18) Methyl Acetate	4.67	43	16414	7.184	ug/l	97
19) Methyl tert-butyl Ether	5.43	73	19704	5.140	ug/l	98
20) Methylene Chloride	4.92	84	17470	6.440	ug/l	90
21) trans-1,2-Dichloroethene	5.42	96	13361	5.089	ug/l	85
22) Diisopropyl ether	6.31	45	48923	4.937	ug/l	97
23) Vinyl Acetate	6.25	43	119795	19.534	ug/l	99
24) 1,1-Dichloroethane	6.21	63	25718	4.942	ug/l	97
25) 2-Butanone	7.17	43	25084	23.239	ug/l	94
26) 2,2-Dichloropropane	7.16	77	12804	4.734	ug/l	97
27) cis-1,2-Dichloroethene	7.16	96	14151	4.997	ug/l	99
28) Bromochloromethane	7.51	49	12865	5.437	ug/l	97
29) Tetrahydrofuran	7.52	42	17103	24.165	ug/l	98
30) Chloroform	7.67	83	25403	5.271	ug/l	95
31) Cyclohexane	7.95	56	30691	5.544	ug/l	# 76
32) 1,1,1-Trichloroethane	7.86	97	18078	4.931	ug/l	98
36) 1,1-Dichloropropene	8.08	75	20120	5.011	ug/l	98
37) Ethyl Acetate	7.25	43	11979	4.965	ug/l	99
38) Carbon Tetrachloride	8.07	117	16140	4.742	ug/l	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.33	83	24235	4.980	ug/l	94
40) Benzene	8.32	78	56552	5.096	ug/l	98
41) Methacrylonitrile	7.49	41	6552	4.748	ug/l	96
42) 1,2-Dichloroethane	8.40	62	18432	5.120	ug/l	98
43) Isopropyl Acetate	8.42	43	21387	4.695	ug/l	96
44) Trichloroethene	9.09	130	13345	4.997	ug/l	94
45) 1,2-Dichloropropane	9.37	63	15319	5.098	ug/l	97
46) Dibromomethane	9.46	93	7066	5.006	ug/l	99
47) Bromodichloromethane	9.64	83	17201	4.762	ug/l	98
48) Methyl methacrylate	9.44	41	10037	4.580	ug/l	96
49) 1,4-Dioxane	9.45	88	2283	96.891	ug/l #	86
51) 4-Methyl-2-Pentanone	10.21	43	55789	23.447	ug/l	100
52) Toluene	10.38	92	34559	5.134	ug/l	98
53) t-1,3-Dichloropropene	10.60	75	16850	4.383	ug/l	96
54) cis-1,3-Dichloropropene	10.07	75	20324	4.491	ug/l	98
55) 1,1,2-Trichloroethane	10.79	97	9838	4.913	ug/l	92
56) Ethyl methacrylate	10.65	69	14213	4.662	ug/l	97
57) 1,3-Dichloropropane	10.93	76	18725	4.945	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.92	63	33852	23.949	ug/l	99
59) 2-Hexanone	10.97	43	36573	22.164	ug/l	97
60) Dibromochloromethane	11.12	129	9858	4.489	ug/l	99
61) 1,2-Dibromoethane	11.24	107	9222	4.862	ug/l	100
64) Tetrachloroethene	10.86	164	11895	5.240	ug/l	97
65) Chlorobenzene	11.66	112	34845	5.094	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.73	131	11601	4.817	ug/l	98
67) Ethyl Benzene	11.73	91	64008	4.888	ug/l	96
68) m/p-Xylenes	11.84	106	46226	9.756	ug/l	100
69) o-Xylene	12.17	106	21815	4.885	ug/l	98
70) Styrene	12.18	104	36444	4.729	ug/l	100
71) Bromoform	12.35	173	5241	4.093	ug/l #	92
73) Isopropylbenzene	12.46	105	58563	4.724	ug/l	99
74) N-amyl acetate	12.27	43	18508	4.286	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.71	83	12227	4.811	ug/l	98
76) 1,2,3-Trichloropropane	12.77	75	15308	7.987	ug/l #	100
77) Bromobenzene	12.75	156	13502	4.853	ug/l	98
78) n-propylbenzene	12.80	91	73365	4.804	ug/l	100
79) 2-Chlorotoluene	12.89	91	43114	4.906	ug/l	98
80) 1,3,5-Trimethylbenzene	12.94	105	50561	4.800	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.51	75	3239	3.822	ug/l	87
82) 4-Chlorotoluene	12.99	91	45355	4.955	ug/l	99
83) tert-Butylbenzene	13.21	119	41547	4.730	ug/l	98
84) 1,2,4-Trimethylbenzene	13.25	105	51505	4.870	ug/l	97
85) sec-Butylbenzene	13.38	105	61397	4.844	ug/l	100
86) p-Isopropyltoluene	13.50	119	54162	4.764	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	27364	5.112	ug/l	100
88) 1,4-Dichlorobenzene	13.58	146	27272	5.059	ug/l	91
89) n-Butylbenzene	13.82	91	54587	4.813	ug/l	99
90) Hexachloroethane	14.10	117	9210	4.433	ug/l	100
91) 1,2-Dichlorobenzene	13.87	146	24155	4.974	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	2234	4.956	ug/l	90

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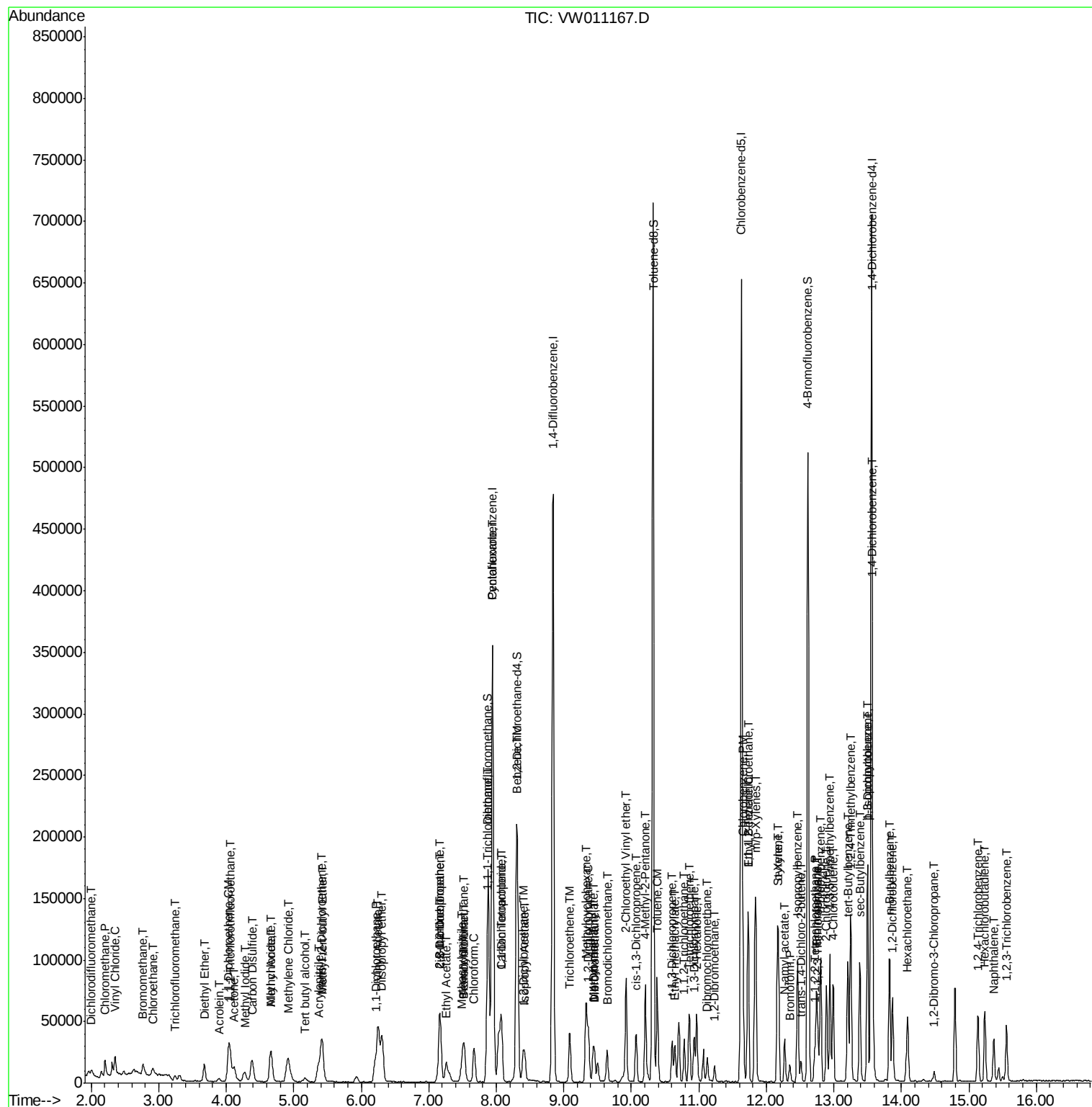
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	16260	4.861	ug/l	97
94) Hexachlorobutadiene	15.24	225	10662	5.192	ug/l	98
95) Naphthalene	15.37	128	27753	4.330	ug/l	99
96) 1,2,3-Trichlorobenzene	15.56	180	14201	4.810	ug/l	98

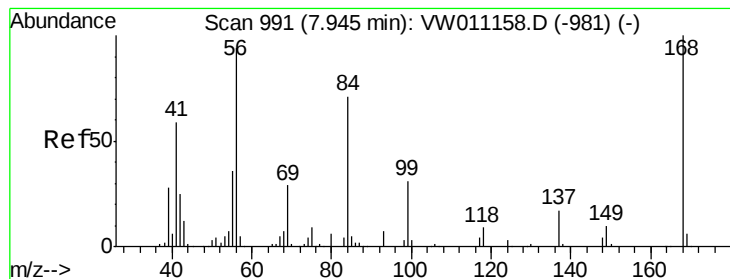
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

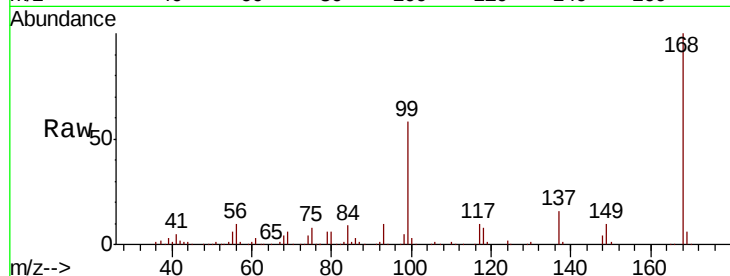
LOQ-SOIL-02-QT3-2019

Tot Ion:168 Resp: 227438

Ion Ratio Lower Upper

168 100

99 58.0 50.1 75.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

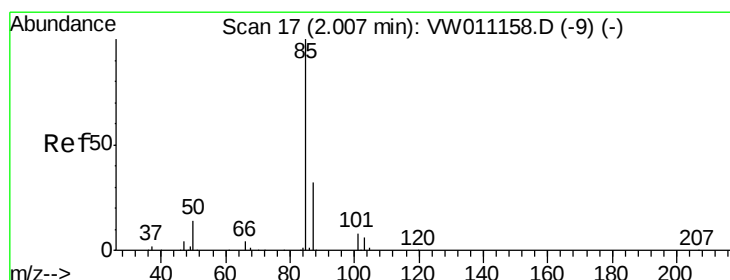
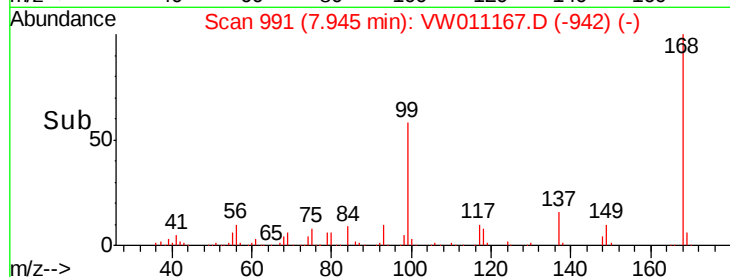
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 4.463 ug/l

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW011167.D

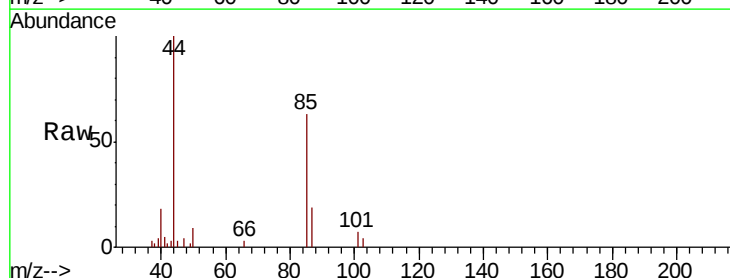
Acq: 08 Jul 2019 18:07

Tgt Ion: 85 Resp: 7571

Ion Ratio Lower Upper

85 100

87 29.7 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

3000

2500

2000

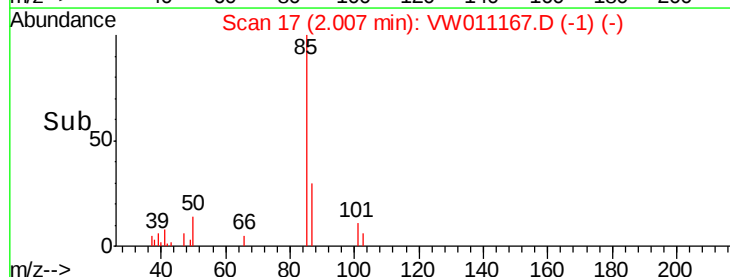
1500

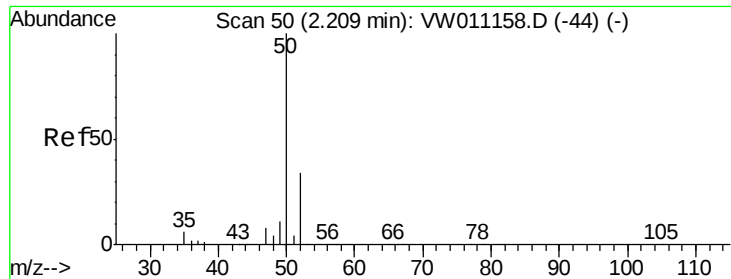
1000

500

0

Time-->





#3

Chloromethane

Concen: 5.206 ug/l

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

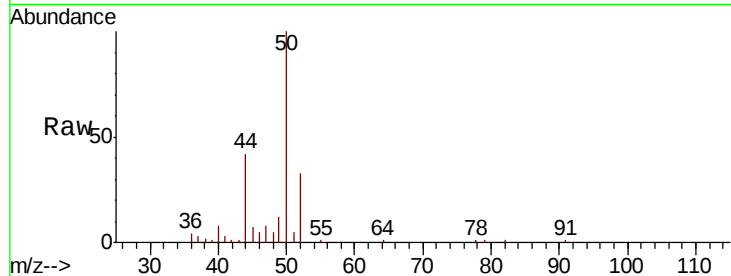
LOQ-SOIL-02-QT3-2019

Tot Ion: 50 Resp: 11378

Ion Ratio Lower Upper

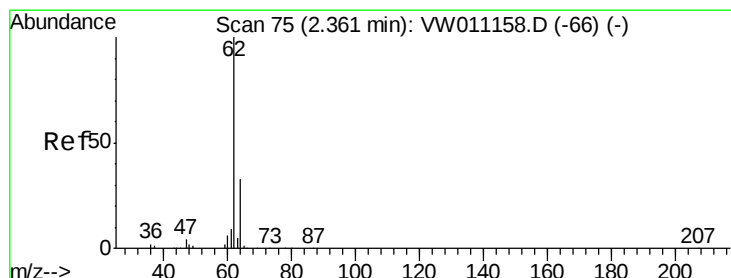
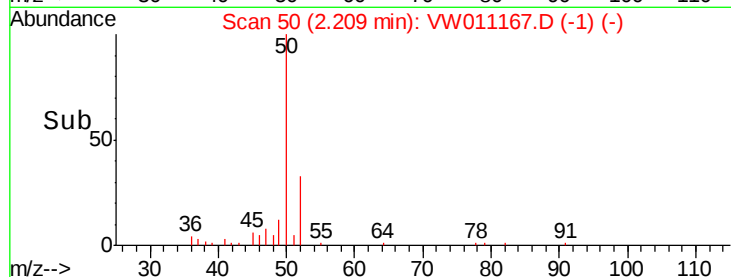
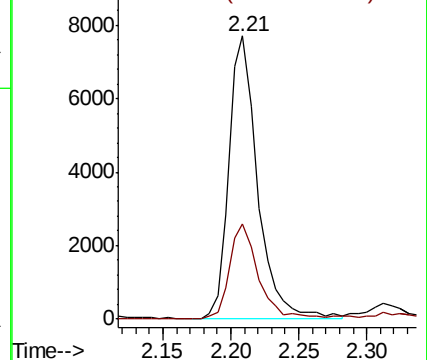
50 100

52 33.5 26.9 40.3



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



#4

Vinyl Chloride

Concen: 5.013 ug/l

RT: 2.35 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW011167.D

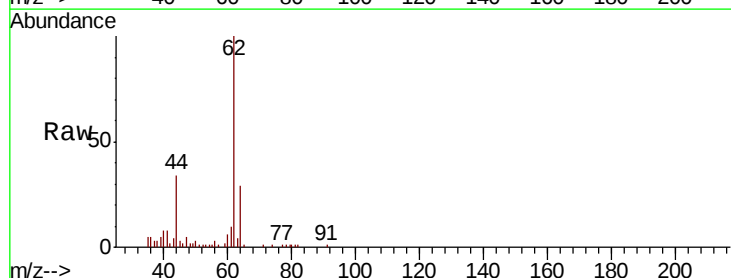
Acq: 08 Jul 2019 18:07

Tgt Ion: 62 Resp: 14341

Ion Ratio Lower Upper

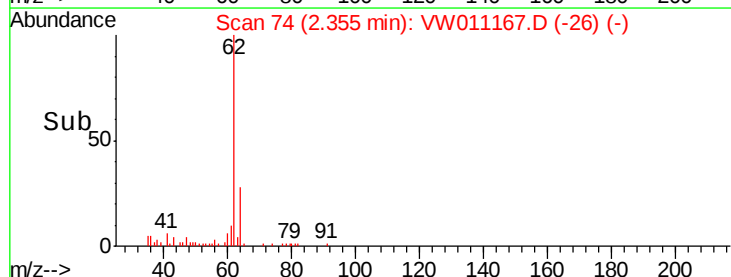
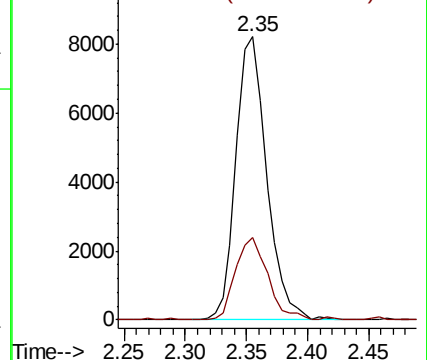
62 100

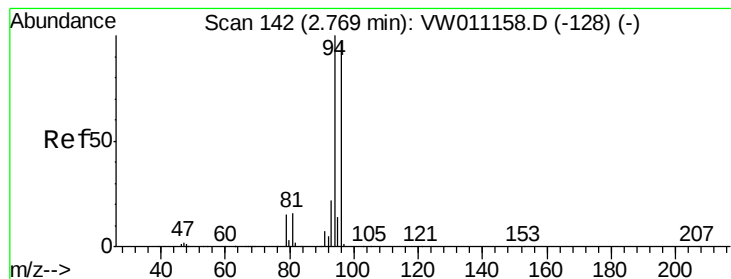
64 28.9 26.6 40.0



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW





#5

Bromomethane

Concen: 5.327 ug/l

RT: 2.77 min Scan# 142

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

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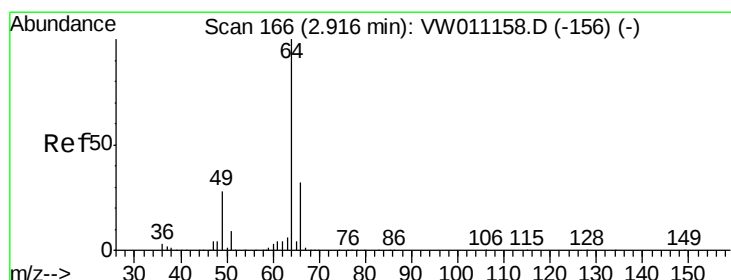
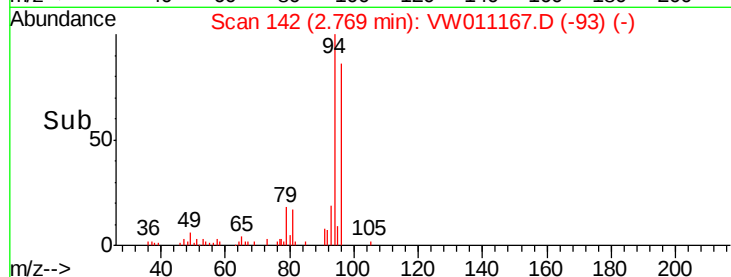
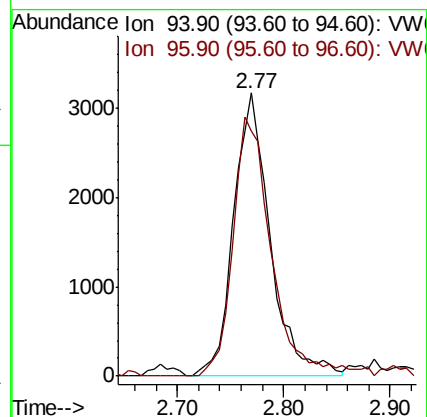
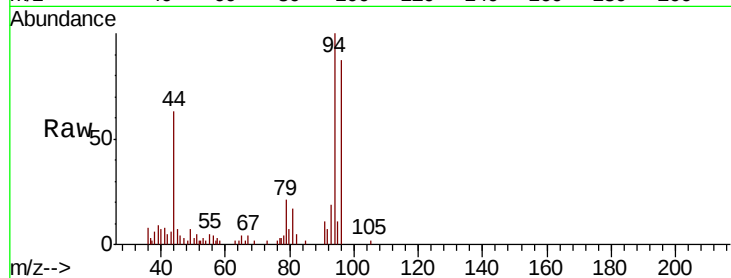
LOQ-SOIL-02-QT3-2019

Tot Ion: 94 Resp: 7658

Ion Ratio Lower Upper

94 100

96 86.7 77.4 116.0



#6

Chloroethane

Concen: 4.787 ug/l

RT: 2.92 min Scan# 166

Delta R.T. 0.00 min

Lab File: VW011167.D

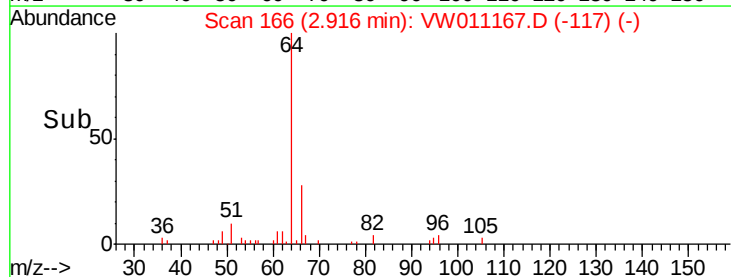
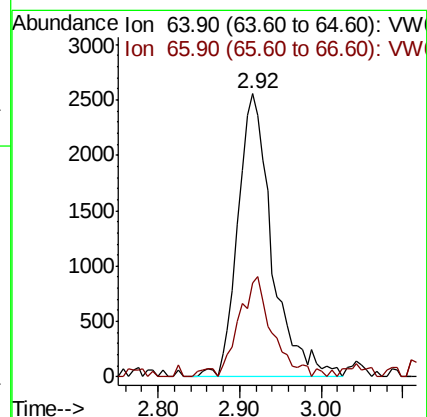
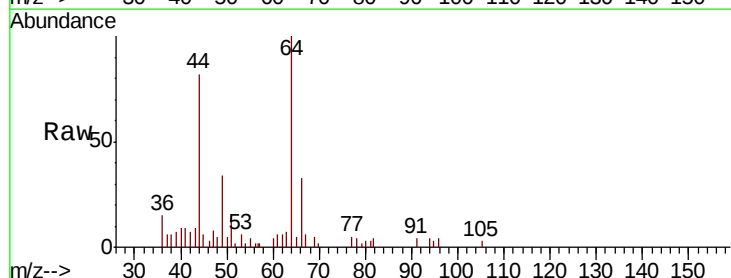
Acq: 08 Jul 2019 18:07

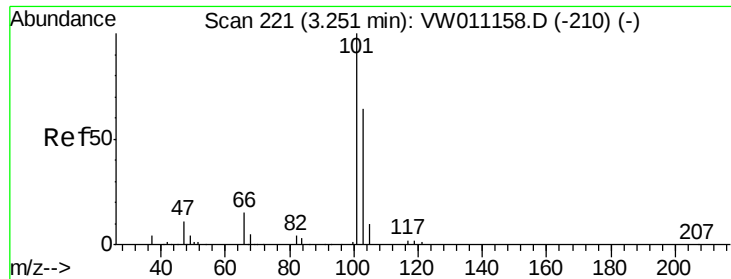
Tgt Ion: 64 Resp: 7376

Ion Ratio Lower Upper

64 100

66 33.0 25.8 38.8





#7

Trichlorofluoromethane

Concen: 3.759 ug/l

RT: 3.24 min Scan# 219

Delta R.T. -0.01 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

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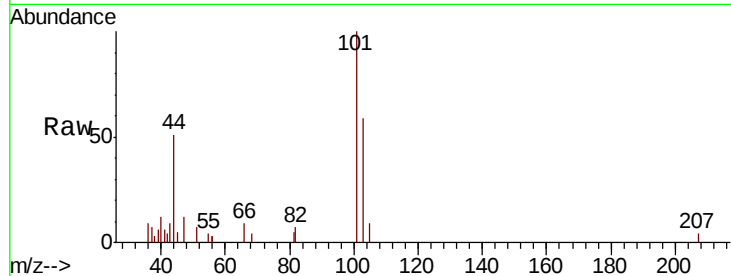
LOQ-SOIL-02-QT3-2019

Tot Ion:101 Resp: 3820

Ion Ratio Lower Upper

101 100

103 59.5 51.3 76.9



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

3.24

2000

1500

1000

500

0

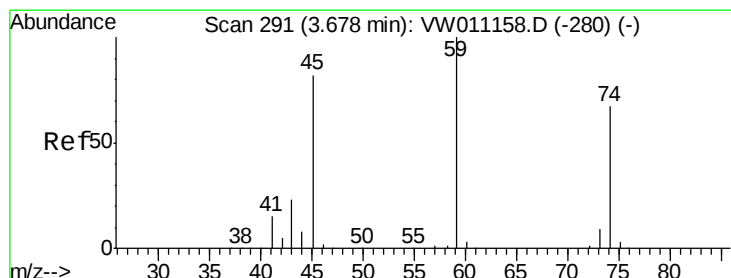
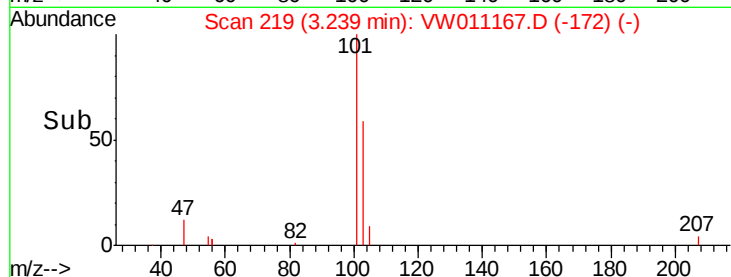
Time-->

3.15

3.20

3.25

3.30



#8

Diethyl Ether

Concen: 4.809 ug/l

RT: 3.68 min Scan# 291

Delta R.T. 0.00 min

Lab File: VW011167.D

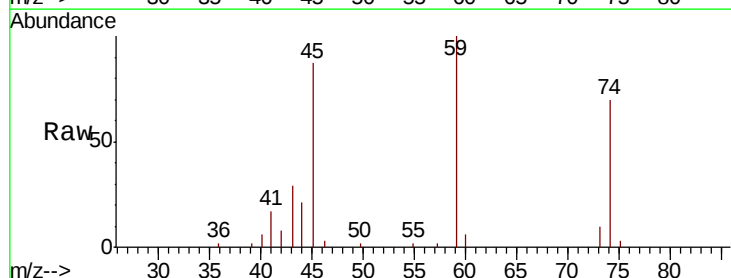
Acq: 08 Jul 2019 18:07

Tgt Ion: 74 Resp: 6763

Ion Ratio Lower Upper

74 100

45 139.0 59.9 179.7



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

4000

3000

2000

1000

0

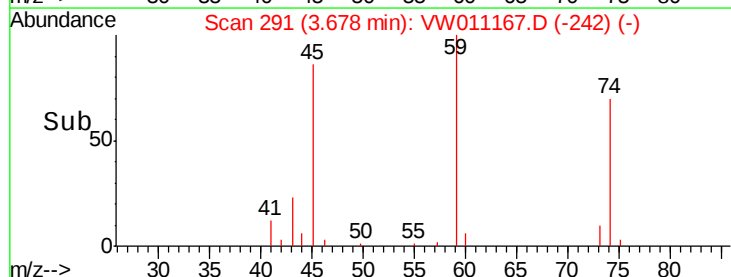
Time-->

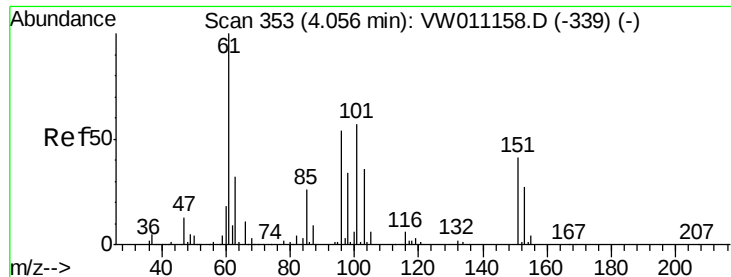
3.60

3.65

3.70

3.75





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.882 ug/l

RT: 4.06 min Scan# 354

Delta R.T. 0.01 min

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LOQ-SOIL-02-QT3-2019

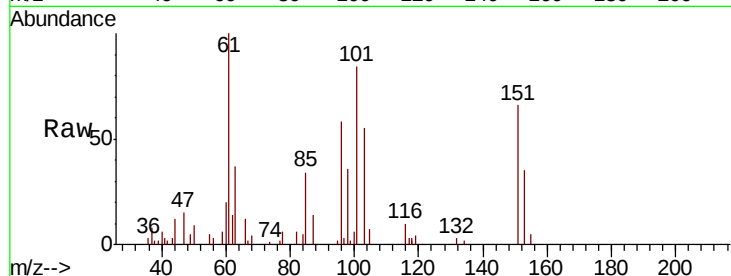
Tot Ion:101 Resp: 11885

Ion Ratio Lower Upper

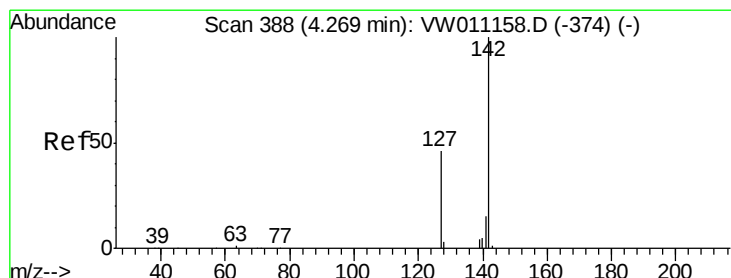
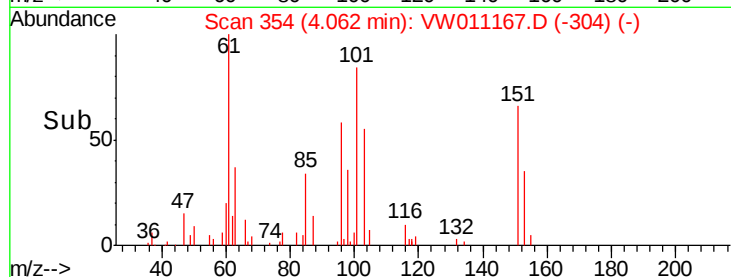
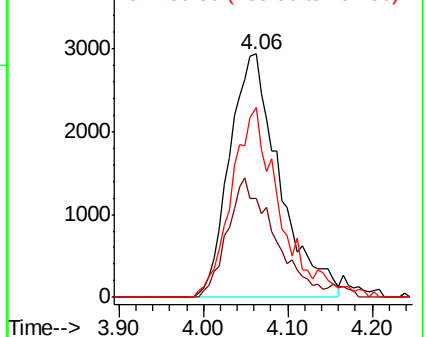
101 100

85 45.9 36.5 54.7

151 70.5 59.1 88.7



Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 4.944 ug/l

RT: 4.28 min Scan# 389

Delta R.T. 0.01 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

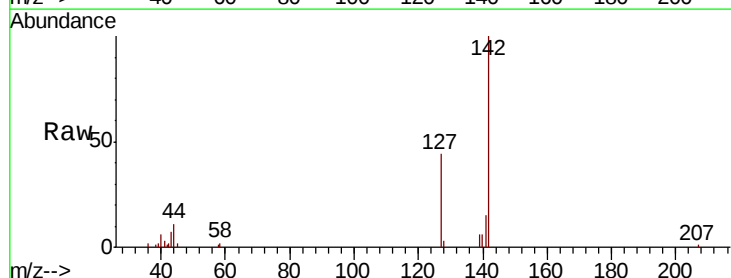
Tgt Ion:142 Resp: 16553

Ion Ratio Lower Upper

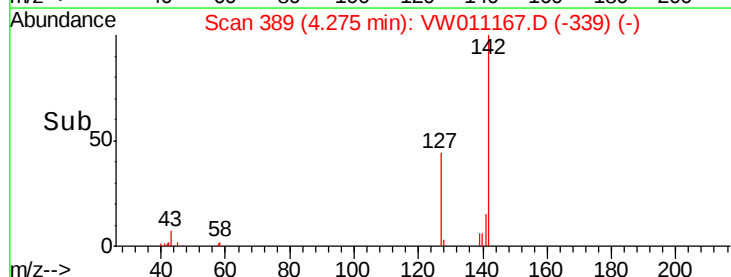
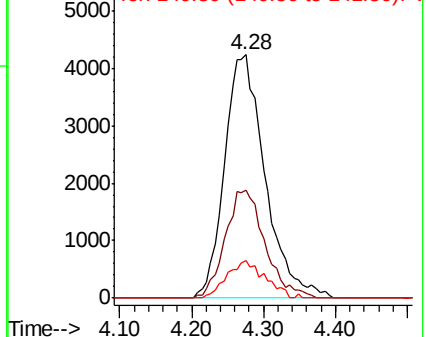
142 100

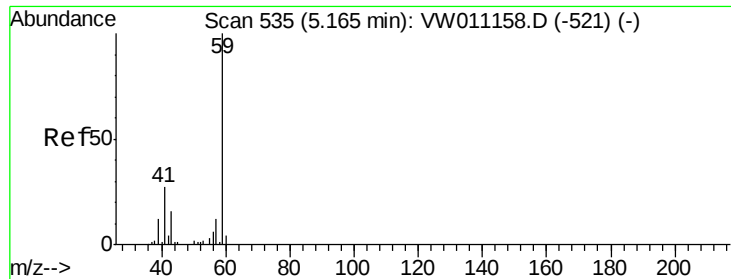
127 43.5 35.7 53.5

141 14.4 11.5 17.3



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

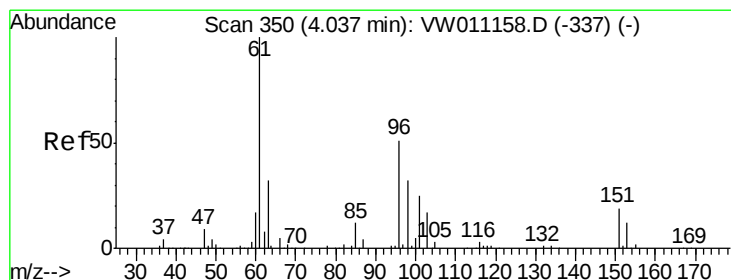
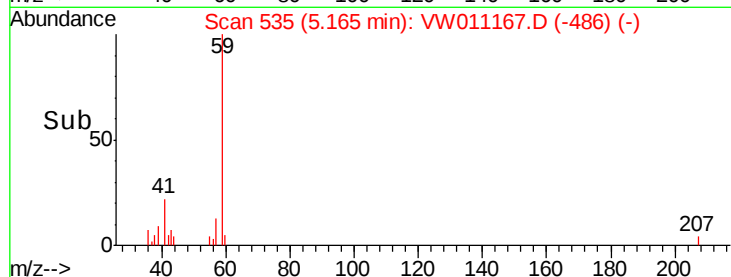
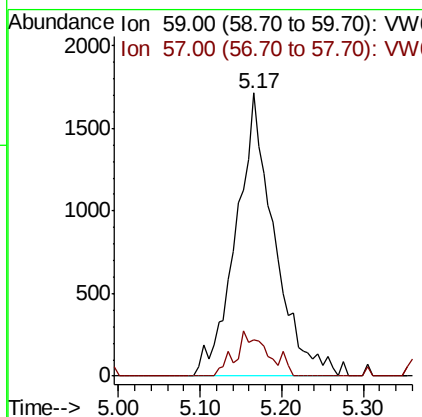
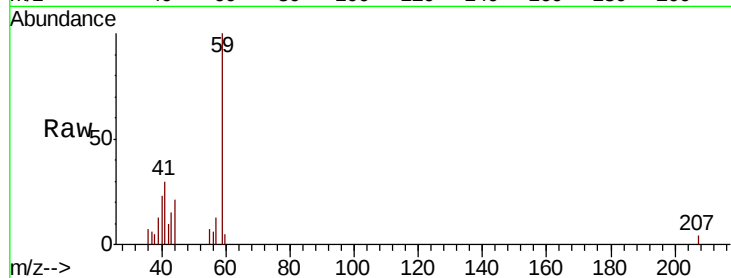




#11
Tert butyl alcohol
Concen: 26.306 ug/l
RT: 5.17 min Scan# 535
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

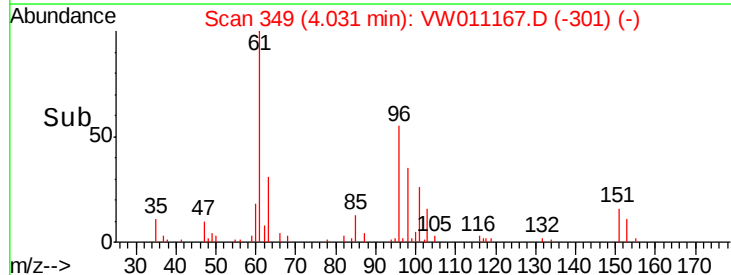
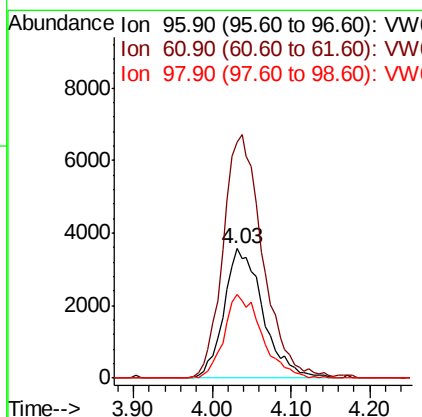
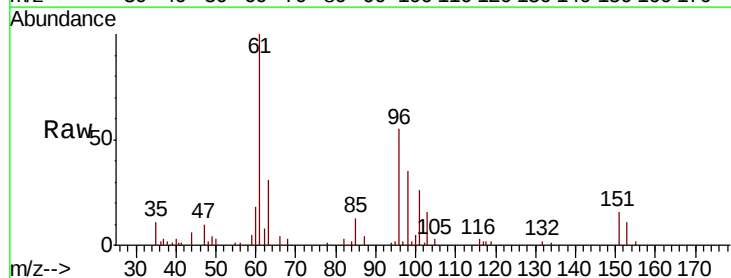
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

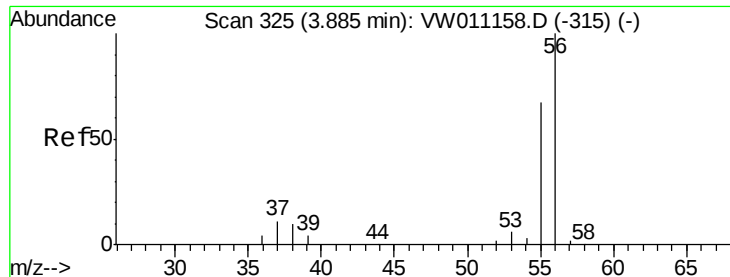
Tot Ion: 59 Resp: 5566
Ion Ratio Lower Upper
59 100
57 13.5 9.0 13.6



#12
1,1-Dichloroethene
Concen: 4.869 ug/l
RT: 4.03 min Scan# 349
Delta R.T. -0.01 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion: 96 Resp: 12301
Ion Ratio Lower Upper
96 100
61 182.5 157.7 236.5
98 64.1 50.9 76.3





#13

Acrolein

Concen: 19.699 ug/l

RT: 3.90 min Scan# 327

Delta R.T. 0.01 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

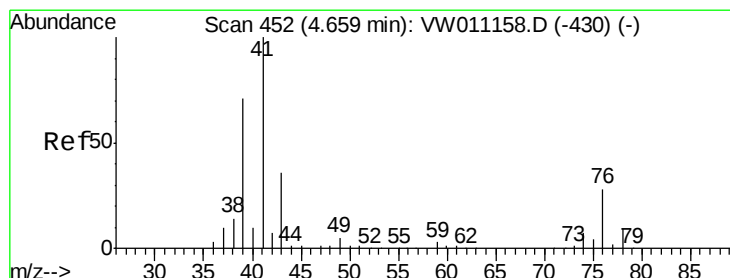
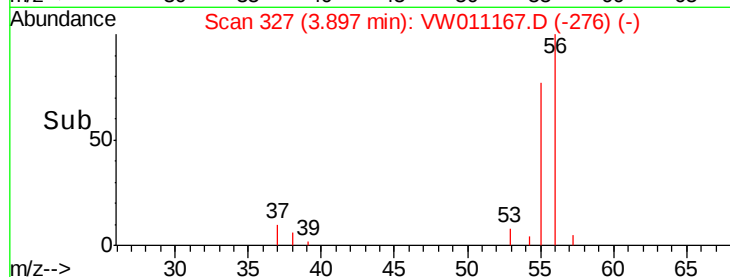
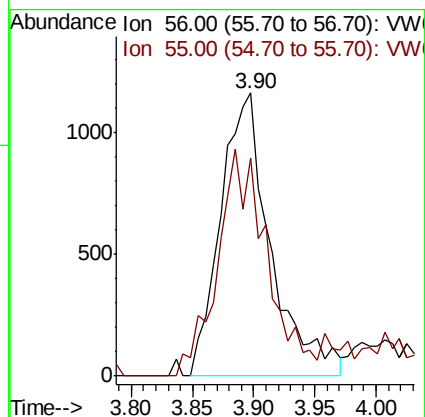
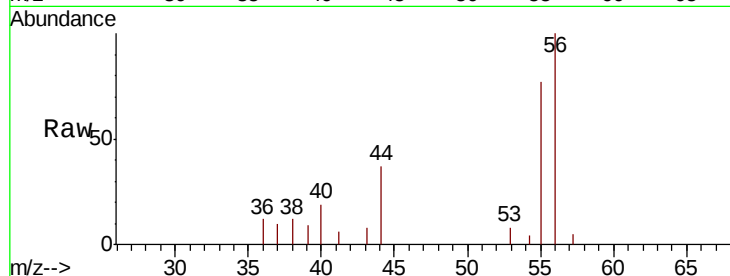
LOQ-SOIL-02-QT3-2019

Tot Ion: 56 Resp: 3319

Ion Ratio Lower Upper

56 100

55 78.8 56.4 84.6



#14

Allyl chloride

Concen: 4.400 ug/l

RT: 4.66 min Scan# 452

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

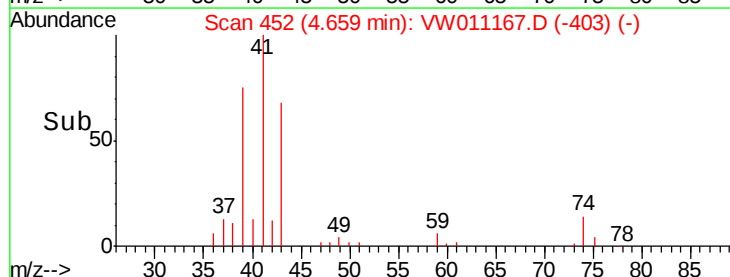
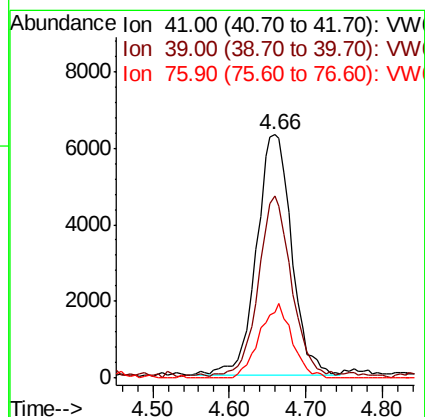
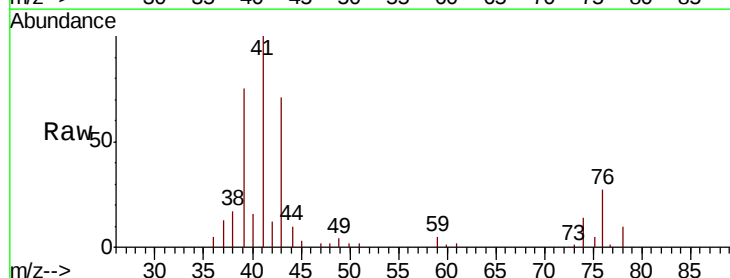
Tgt Ion: 41 Resp: 20274

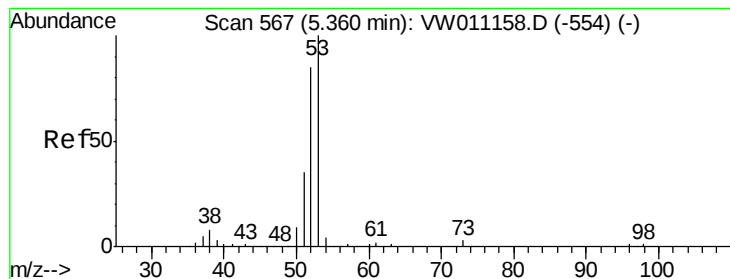
Ion Ratio Lower Upper

41 100

39 70.6 55.1 82.7

76 28.3 22.5 33.7





#15

Acrylonitrile

Concen: 23.541 ug/l

RT: 5.37 min Scan# 568

Delta R.T. 0.01 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT3-2019

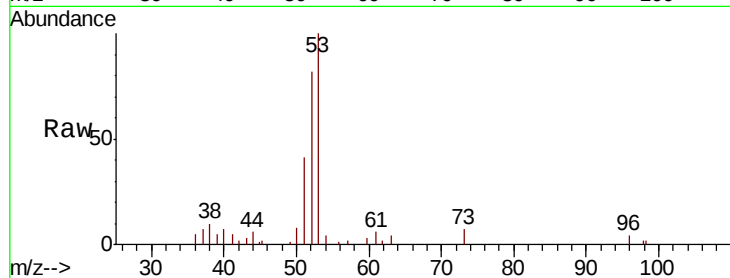
Tot Ion: 53 Resp: 16859

Ion Ratio Lower Upper

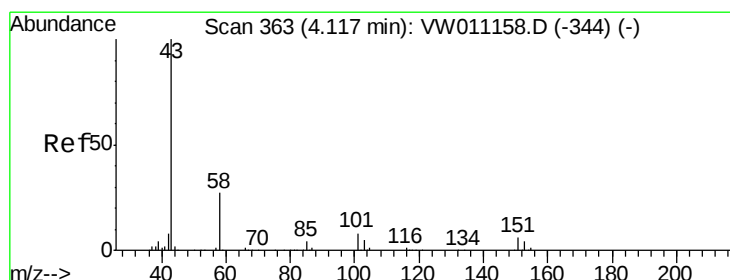
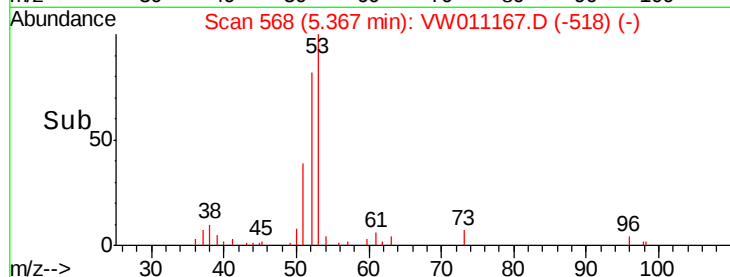
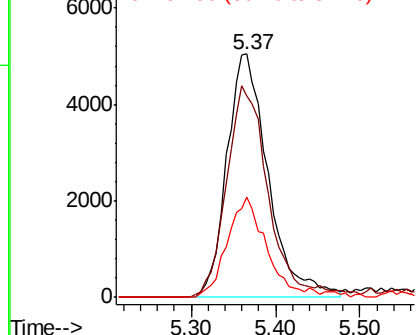
53 100

52 87.9 66.2 99.4

51 38.2 29.1 43.7



Abundance Ion 53.00 (52.70 to 53.70): VW
Ion 52.00 (51.70 to 52.70): VW
Ion 51.00 (50.70 to 51.70): VW



#16

Acetone

Concen: 24.177 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW011167.D

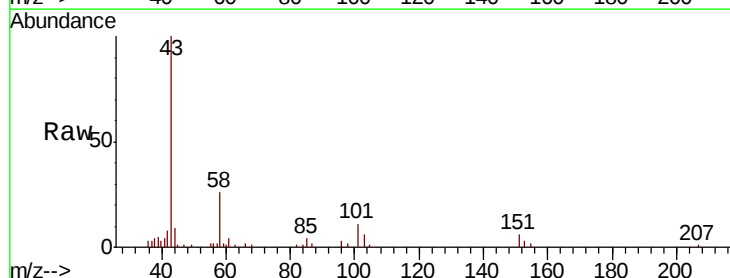
Acq: 08 Jul 2019 18:07

Tgt Ion: 43 Resp: 16625

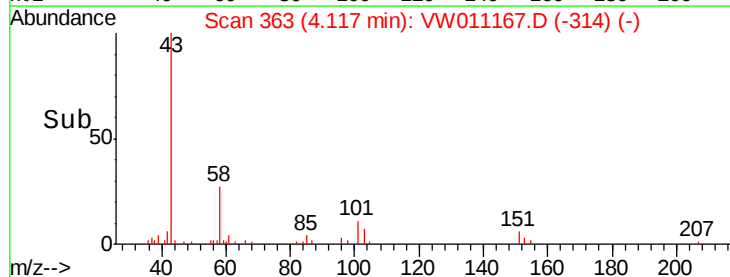
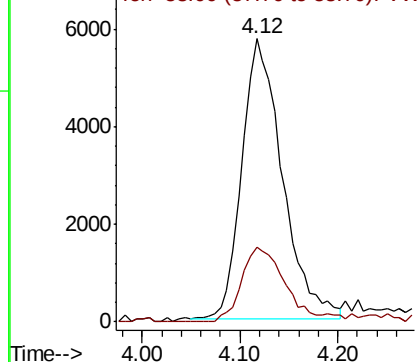
Ion Ratio Lower Upper

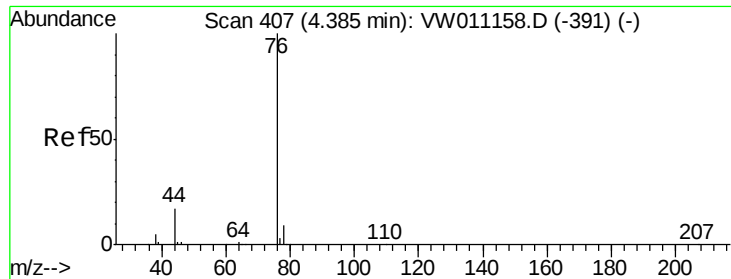
43 100

58 26.7 21.8 32.6



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

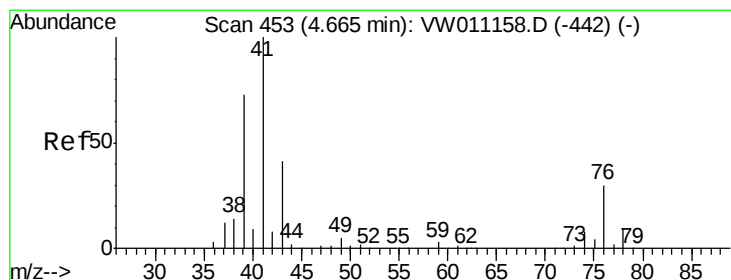
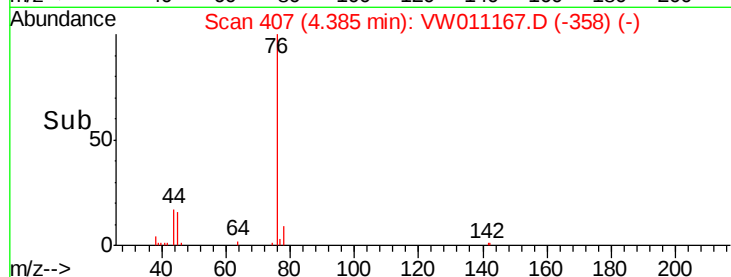
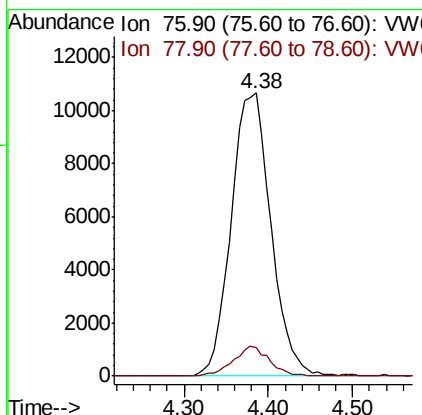
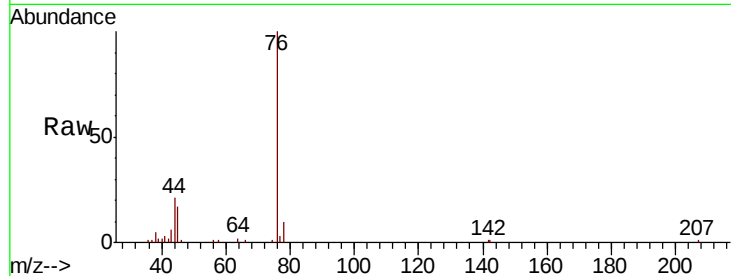




#17
Carbon Disulfide
Concen: 4.446 ug/l
RT: 4.38 min Scan# 407
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

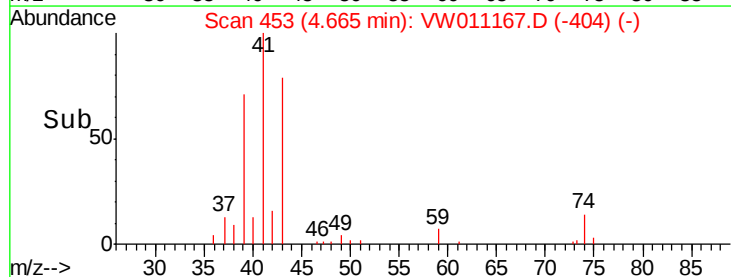
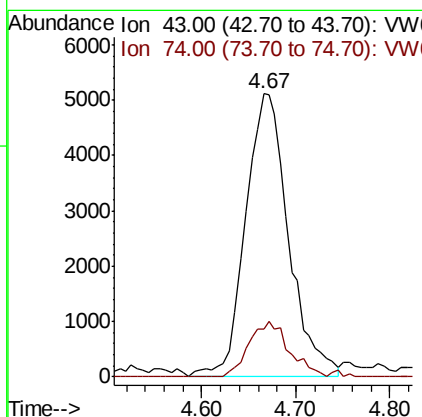
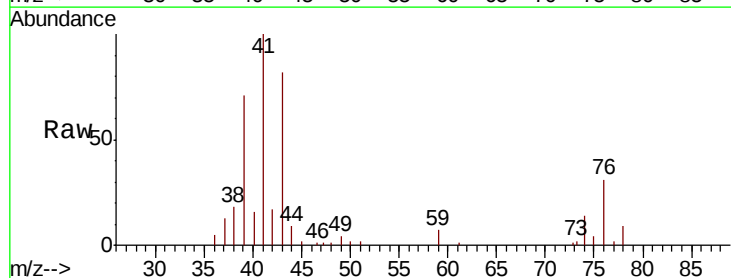
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

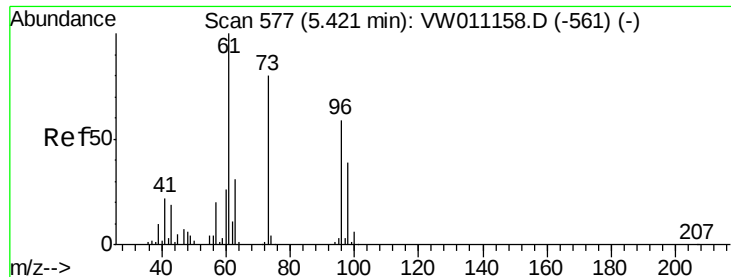
Tot Ion: 76 Resp: 34052
Ion Ratio Lower Upper
76 100
78 10.0 7.1 10.7



#18
Methyl Acetate
Concen: 7.184 ug/l
RT: 4.67 min Scan# 453
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion: 43 Resp: 16414
Ion Ratio Lower Upper
43 100
74 18.2 15.7 23.5

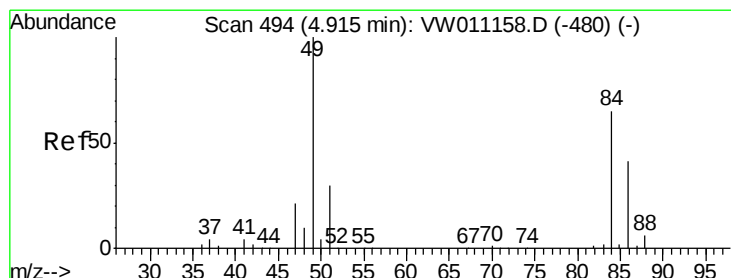
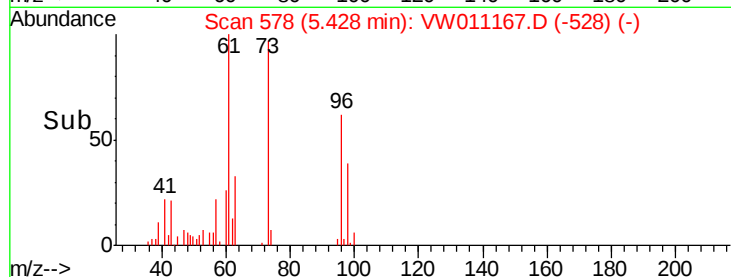
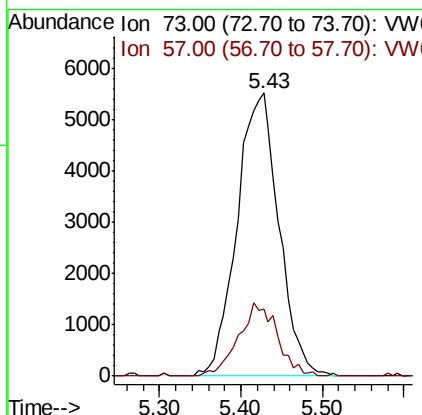
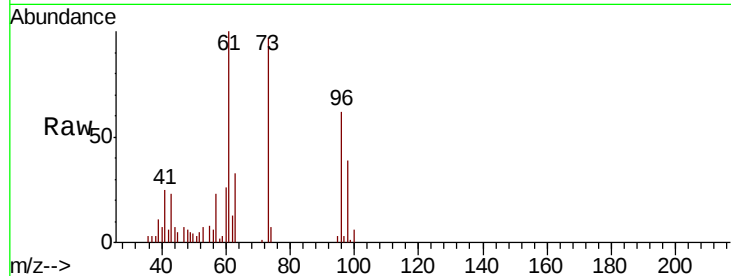




#19
Methyl tert-butyl Ether
Concen: 5.140 ug/l
RT: 5.43 min Scan# 578
Delta R.T. 0.01 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

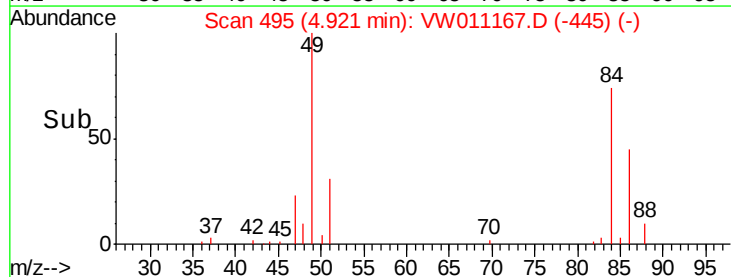
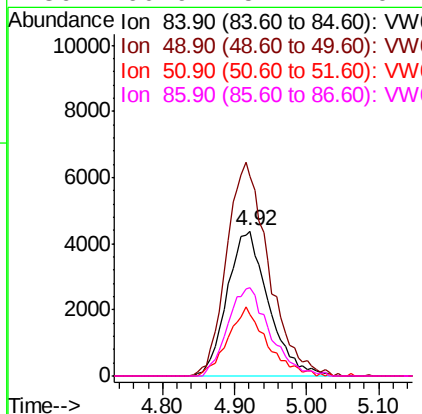
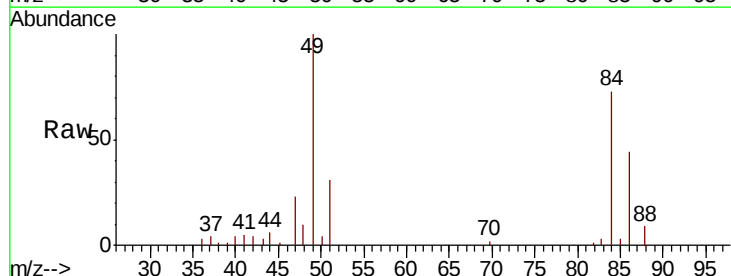
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

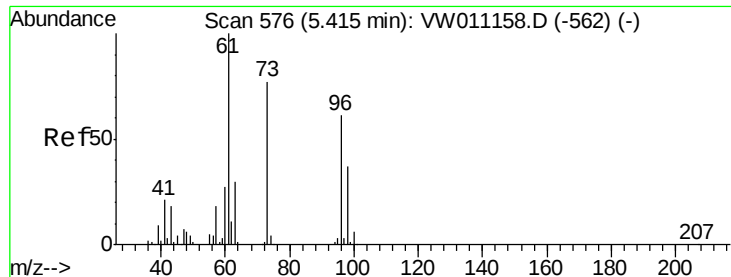
Tot Ion: 73 Resp: 19704
Ion Ratio Lower Upper
73 100
57 23.8 19.7 29.5



#20
Methylene Chloride
Concen: 6.440 ug/l
RT: 4.92 min Scan# 495
Delta R.T. 0.01 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion: 84 Resp: 17470
Ion Ratio Lower Upper
84 100
49 137.3 123.8 185.6
51 42.4 37.4 56.2
86 60.9 51.1 76.7





#21

trans-1,2-Dichloroethene

Concen: 5.089 ug/l

RT: 5.42 min Scan# 577

Delta R.T. 0.01 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT3-2019

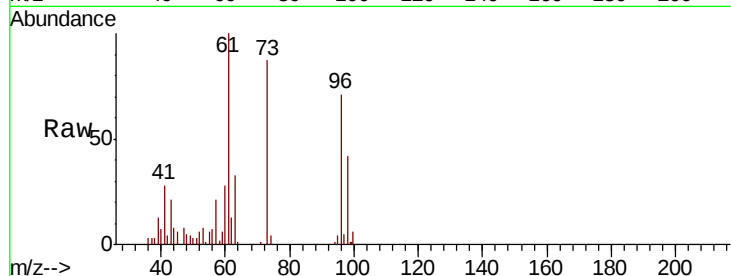
Tot Ion: 96 Resp: 13361

Ion Ratio Lower Upper

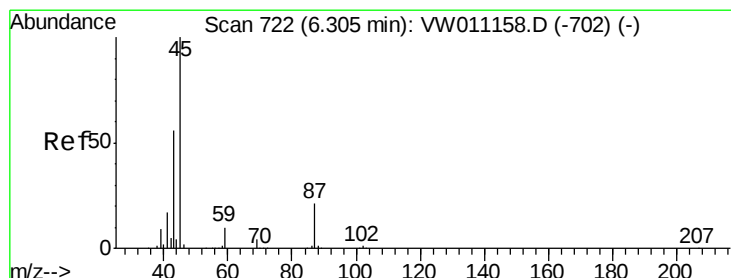
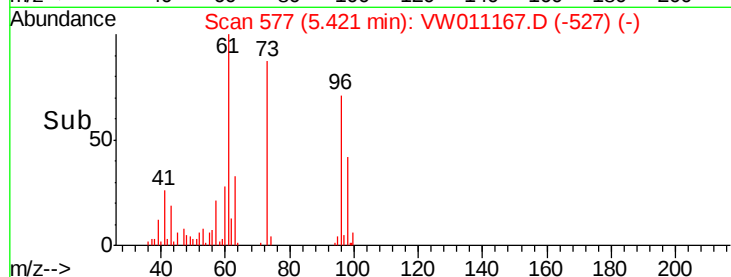
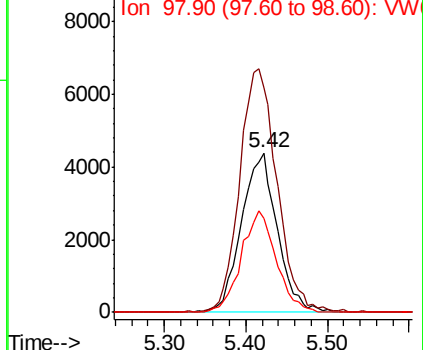
96 100

61 139.5 132.2 198.2

98 58.4 49.4 74.0



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



#22

Diisopropyl ether

Concen: 4.937 ug/l

RT: 6.31 min Scan# 722

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Tgt Ion: 45 Resp: 48923

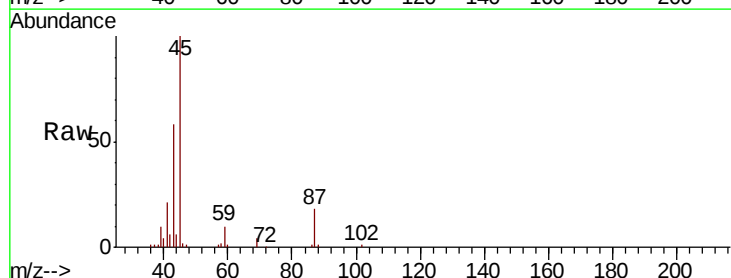
Ion Ratio Lower Upper

45 100

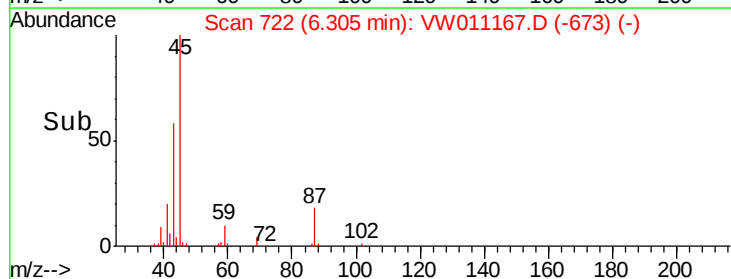
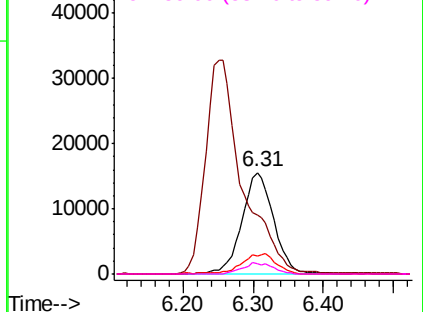
43 56.2 44.6 66.8

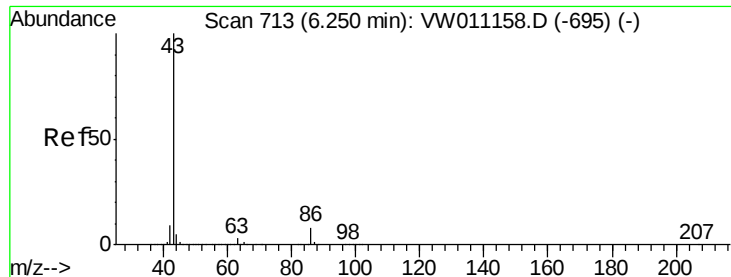
87 17.7 17.3 25.9

59 9.8 8.2 12.2



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





#23

Vinyl Acetate

Concen: 19.534 ug/l

RT: 6.25 min Scan# 713

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

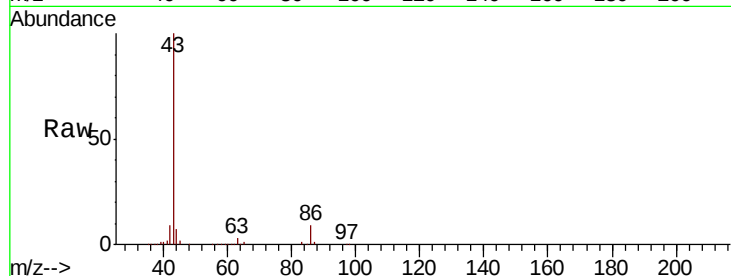
LOQ-SOIL-02-QT3-2019

Tot Ion: 43 Resp: 119795

Ion Ratio Lower Upper

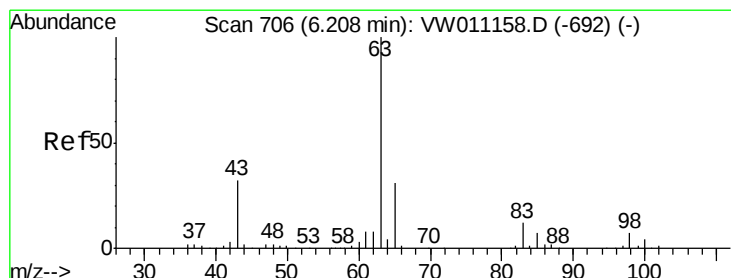
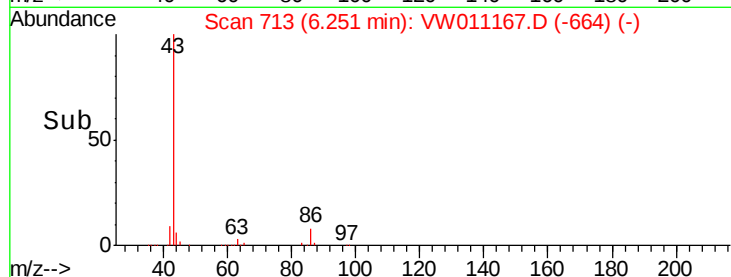
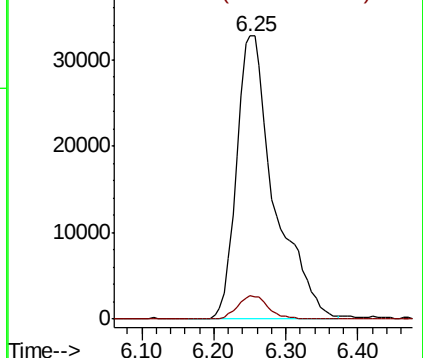
43 100

86 8.5 6.5 9.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 86.00 (85.70 to 86.70): VW



#24

1,1-Dichloroethane

Concen: 4.942 ug/l

RT: 6.21 min Scan# 706

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

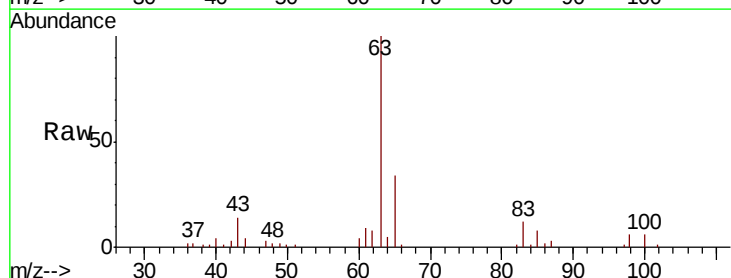
Tgt Ion: 63 Resp: 25718

Ion Ratio Lower Upper

63 100

98 6.1 3.3 9.9

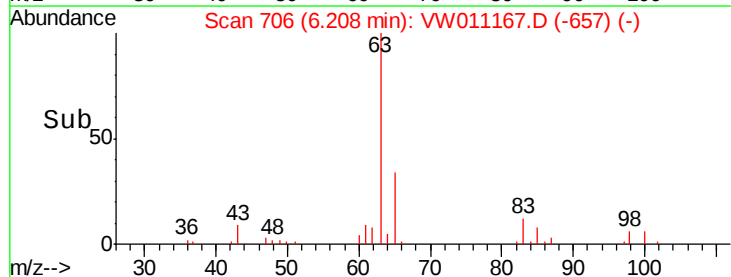
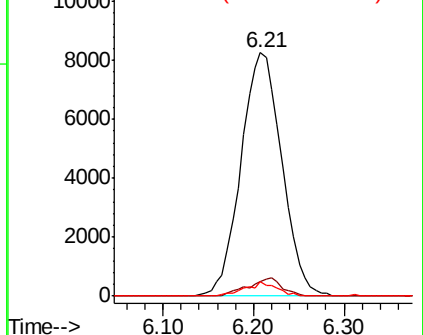
100 6.0 2.1 6.2

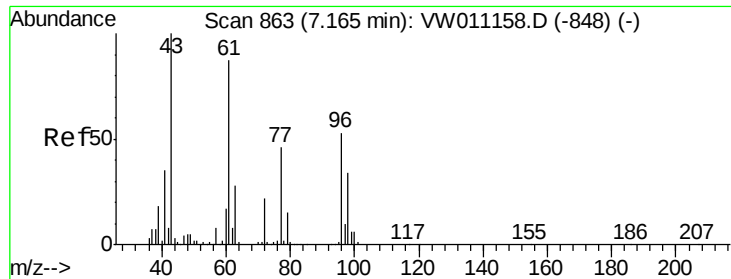


Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 97.90 (97.60 to 98.60): VW

Ion 99.90 (99.60 to 100.60): VW





#25

2-Butanone

Concen: 23.239 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

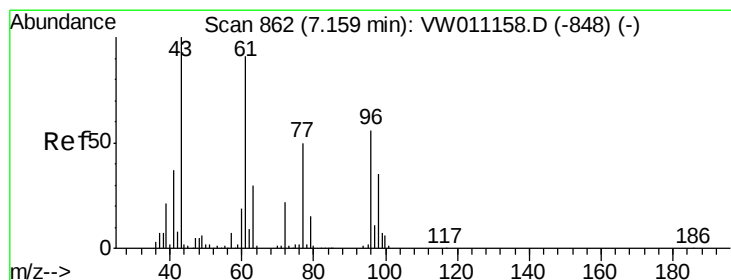
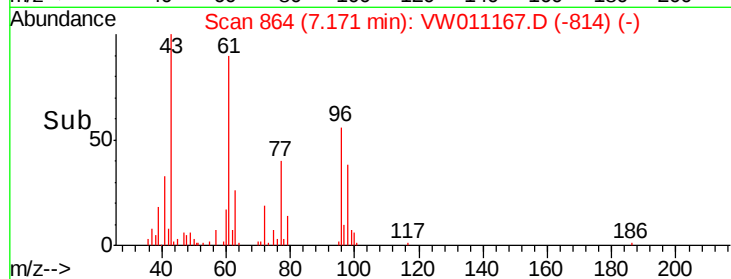
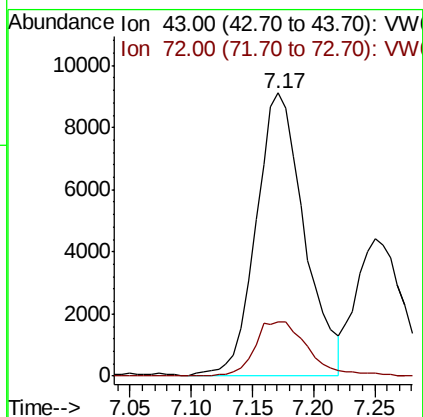
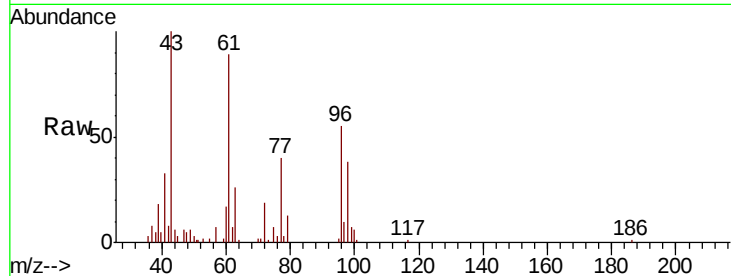
LOQ-SOIL-02-QT3-2019

Tot Ion: 43 Resp: 25084

Ion Ratio Lower Upper

43 100

72 19.0 17.6 26.4



#26

2,2-Dichloropropane

Concen: 4.734 ug/l

RT: 7.16 min Scan# 862

Delta R.T. 0.00 min

Lab File: VW011167.D

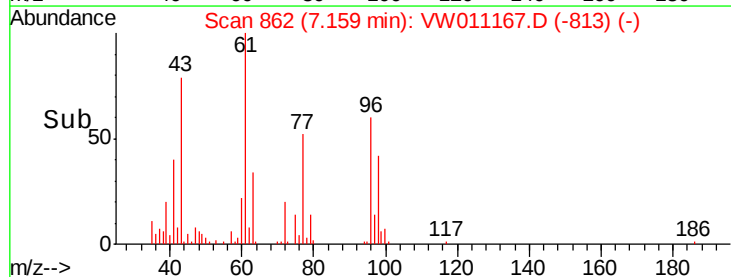
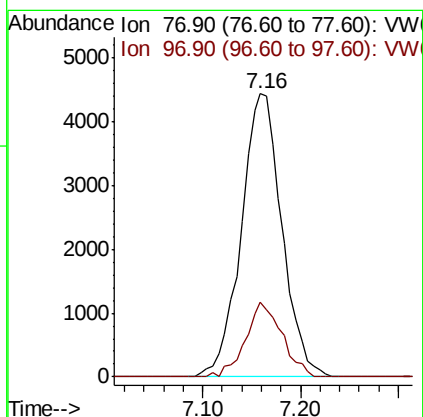
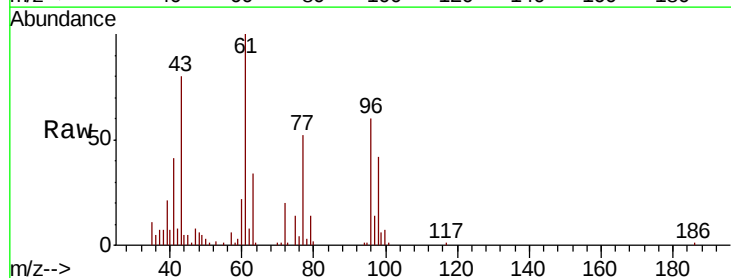
Acq: 08 Jul 2019 18:07

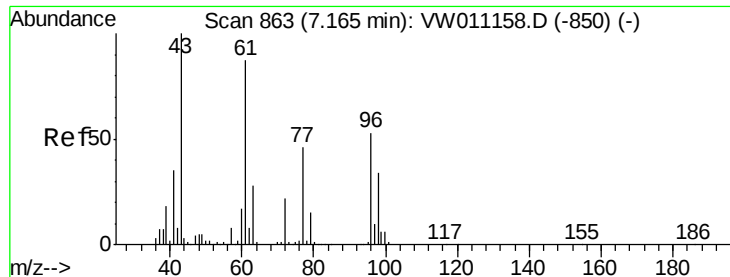
Tgt Ion: 77 Resp: 12804

Ion Ratio Lower Upper

77 100

97 23.6 11.2 33.5



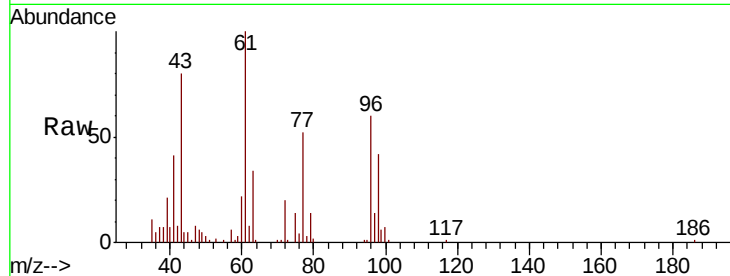


#27

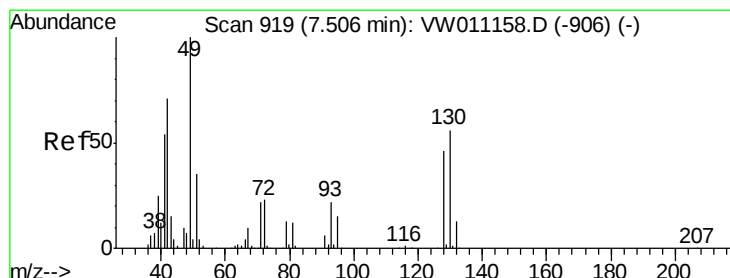
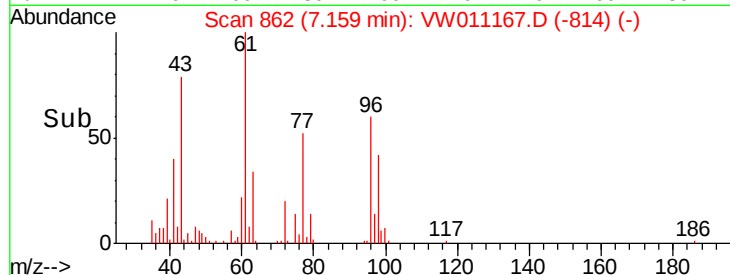
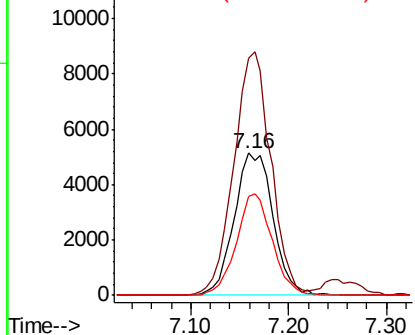
cis-1,2-Dichloroethene
Concen: 4.997 ug/l
RT: 7.16 min Scan# 862
Delta R.T. -0.01 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

Tot Ion: 96 Resp: 14151
Ion Ratio Lower Upper
96 100
61 163.4 0.0 325.6
98 65.6 0.0 128.2



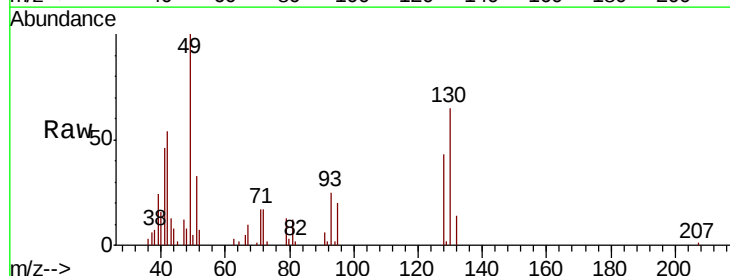
Abundance Ion 95.90 (95.60 to 96.60): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 97.90 (97.60 to 98.60): VW



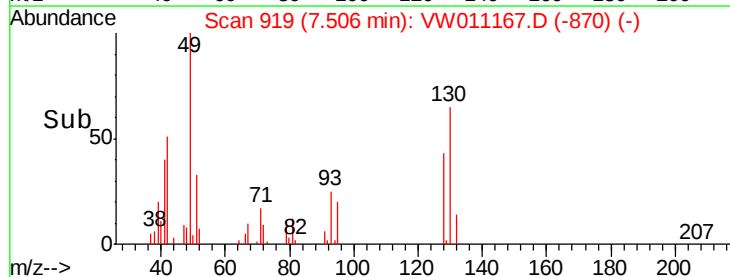
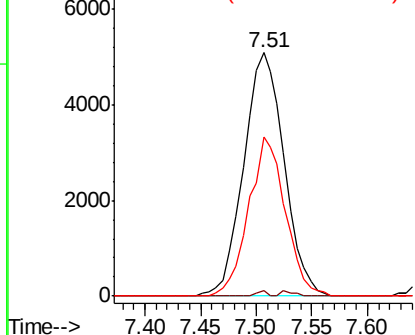
#28

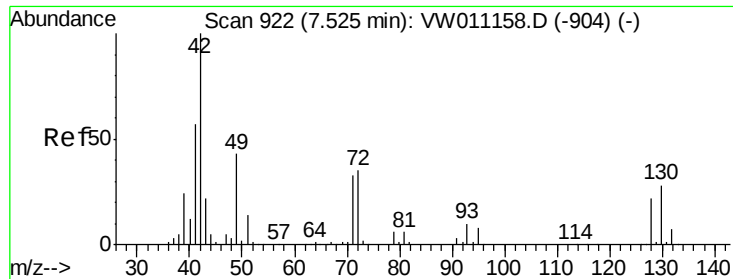
Bromochloromethane
Concen: 5.437 ug/l
RT: 7.51 min Scan# 919
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion: 49 Resp: 12865
Ion Ratio Lower Upper
49 100
129 0.5 0.0 1.4
130 59.5 45.8 68.8



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

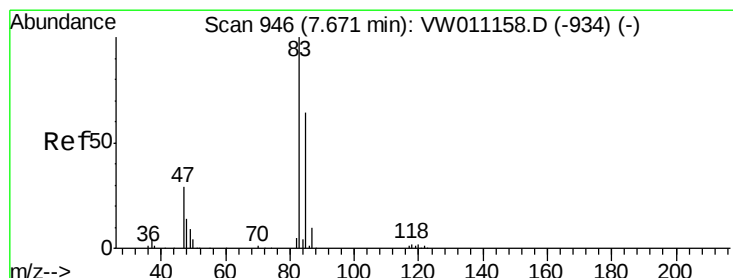
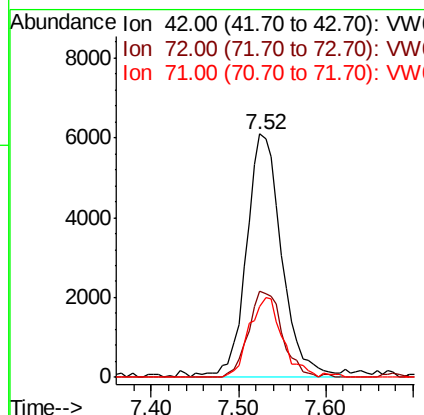
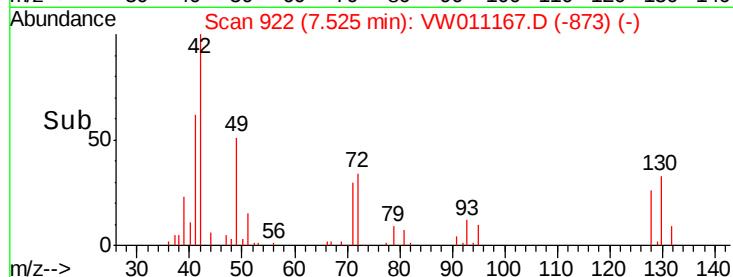
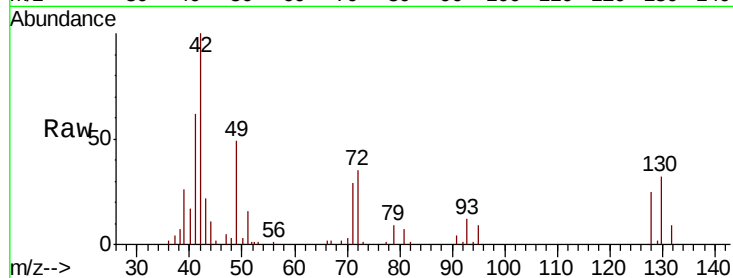




#29
Tetrahydrofuran
Concen: 24.165 ug/l
RT: 7.52 min Scan# 922
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

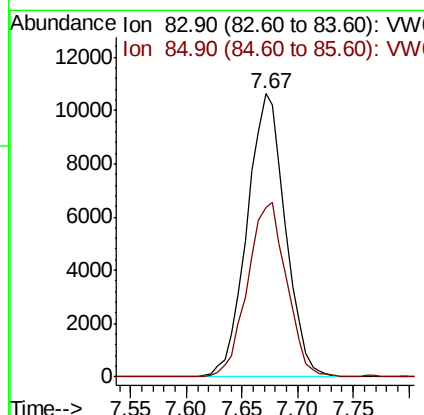
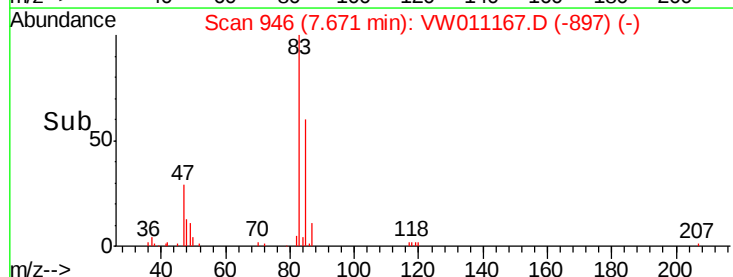
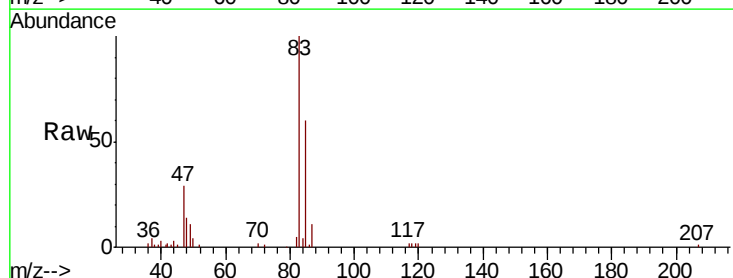
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

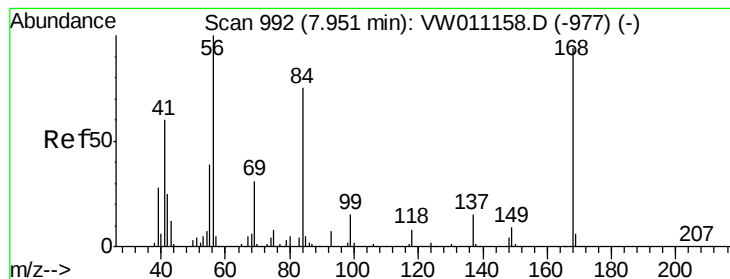
Tot Ion: 42 Resp: 17103
Ion Ratio Lower Upper
42 100
72 33.8 27.4 41.2
71 30.7 25.9 38.9



#30
Chloroform
Concen: 5.271 ug/l
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion: 83 Resp: 25403
Ion Ratio Lower Upper
83 100
85 60.0 51.4 77.2





#31

Cyclohexane

Concen: 5.544 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT3-2019

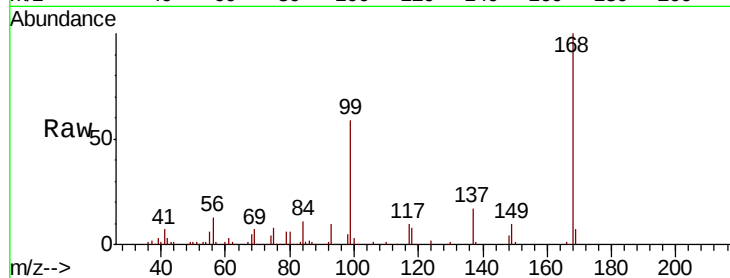
Tot Ion: 56 Resp: 30691

Ion Ratio Lower Upper

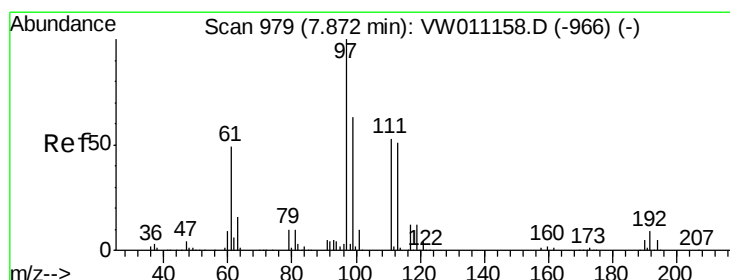
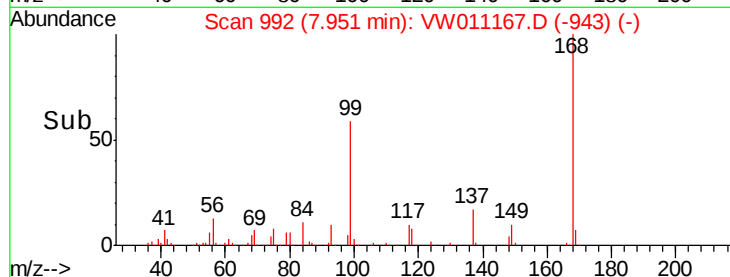
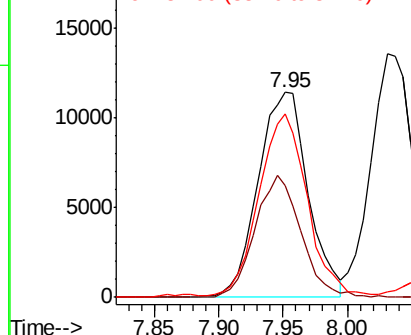
56 100

69 54.7 24.6 36.8#

84 88.5 60.1 90.1



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



#32

1,1,1-Trichloroethane

Concen: 4.931 ug/l

RT: 7.86 min Scan# 977

Delta R.T. -0.01 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

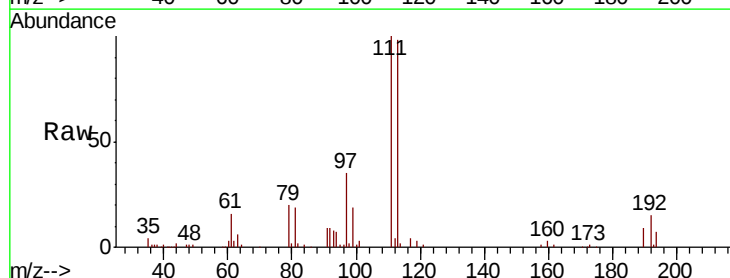
Tgt Ion: 97 Resp: 18078

Ion Ratio Lower Upper

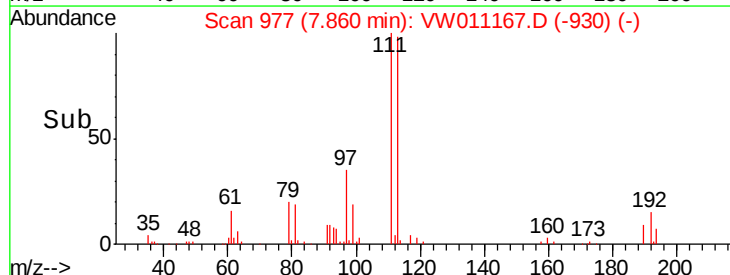
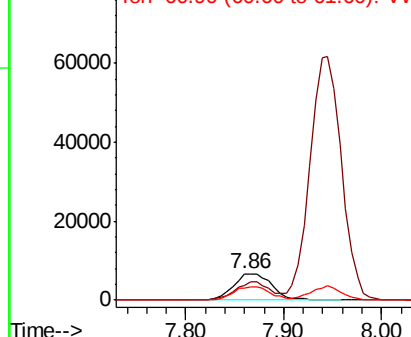
97 100

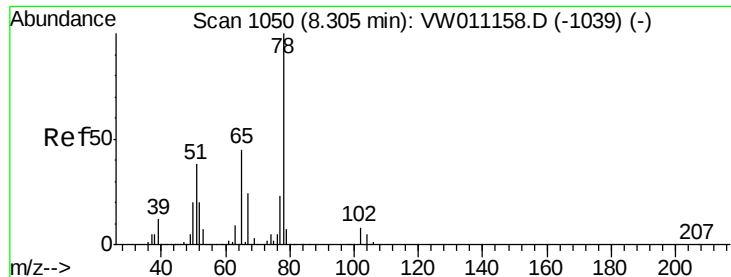
99 62.4 51.0 76.4

61 48.8 40.4 60.6



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

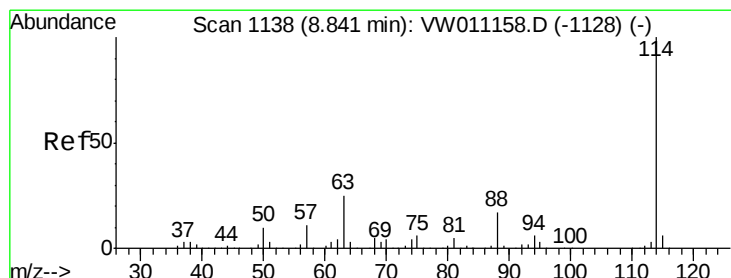
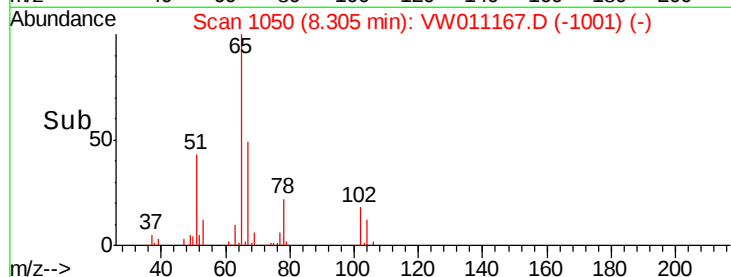
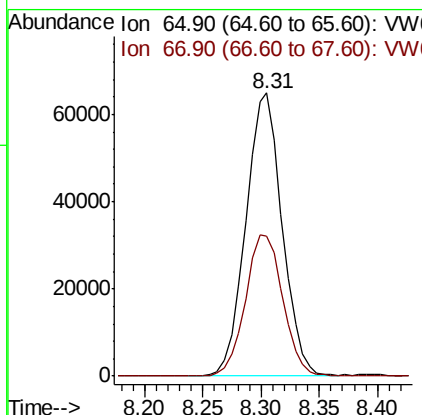
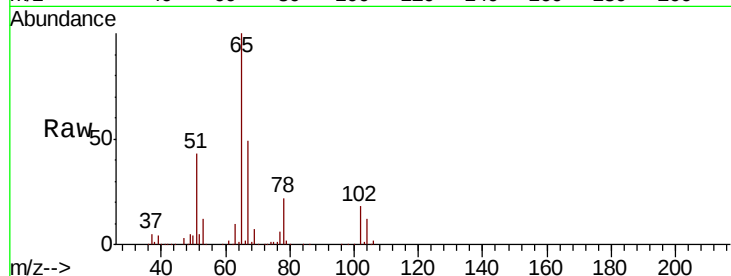




#33
 1,2-Dichloroethane-d4
 Concen: 49.141 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

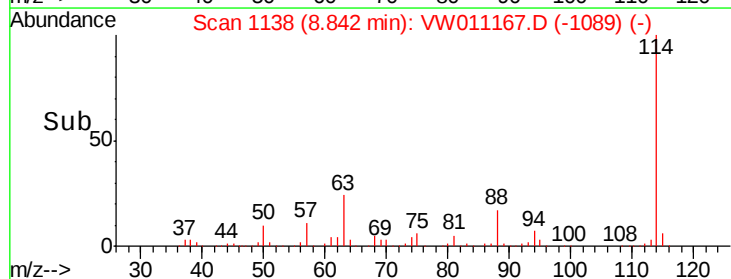
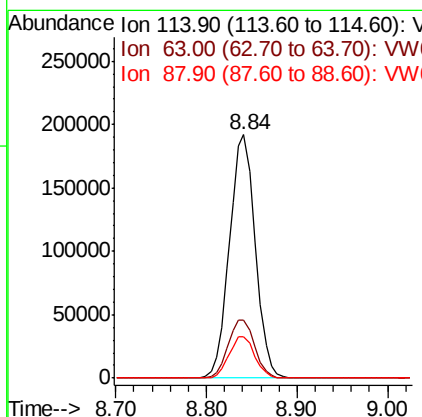
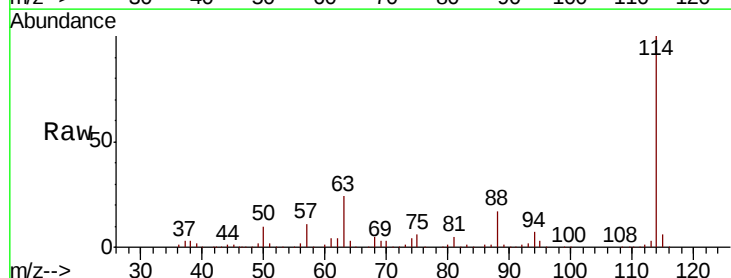
Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT3-2019

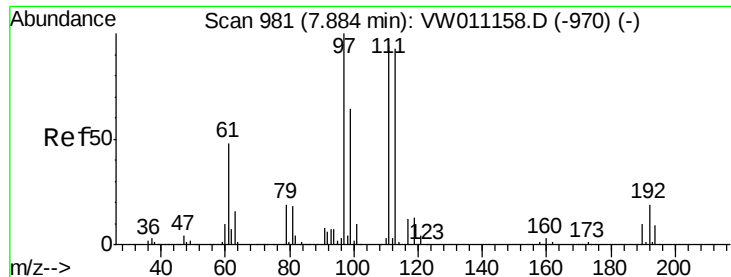
Tot Ion: 65 Resp: 140436
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

Tgt Ion: 114 Resp: 377070
 Ion Ratio Lower Upper
 114 100
 63 24.0 0.0 50.8
 88 16.8 0.0 34.2

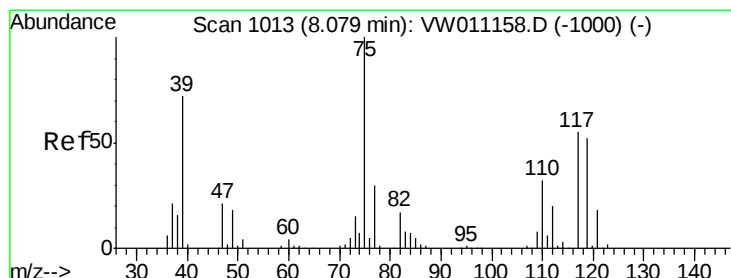
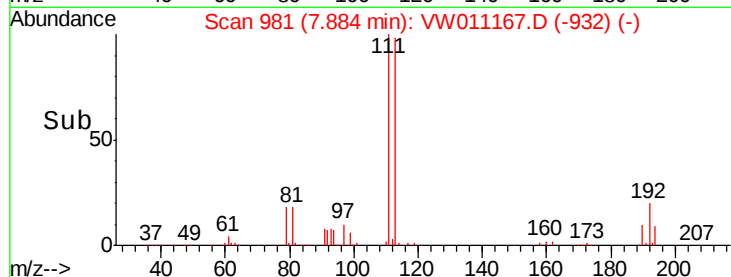
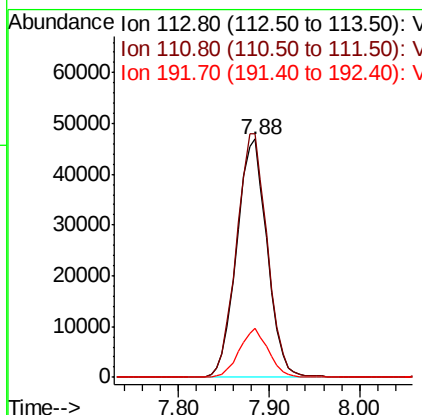
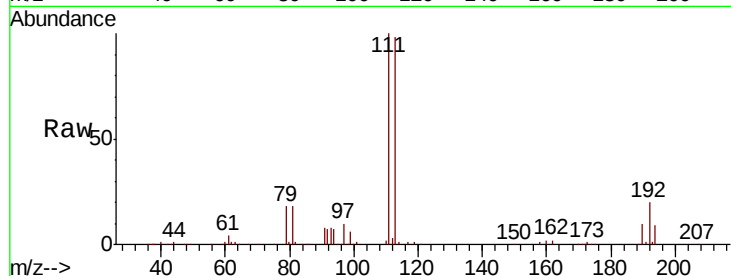




#35
 Dibromofluoromethane
 Concen: 48.431 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

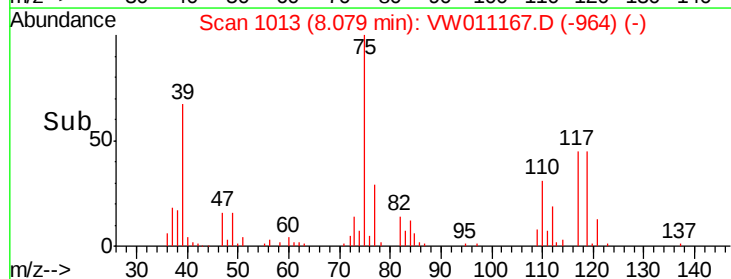
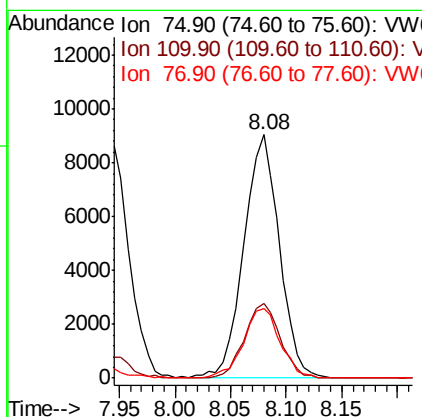
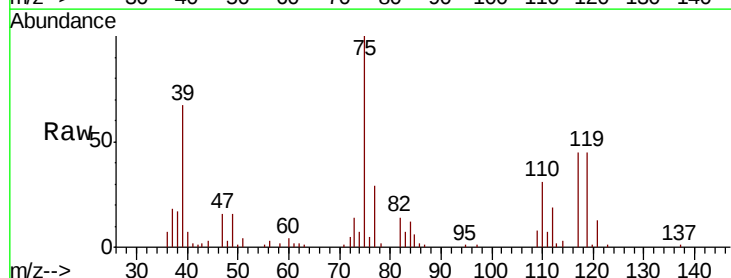
Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT3-2019

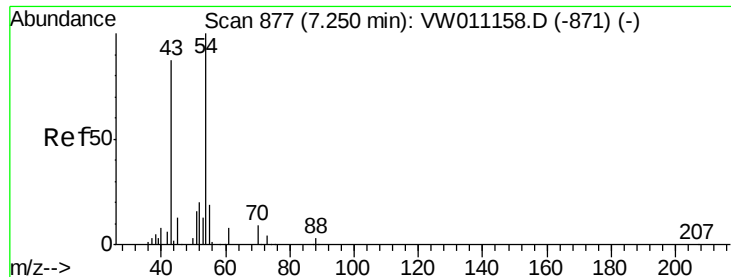
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.4	123.6
192	19.6	15.8	23.8



#36
 1,1-Dichloropropene
 Concen: 5.011 ug/l
 RT: 8.08 min Scan# 1013
 Delta R.T. 0.00 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

Tgt Ion	Ratio	Lower	Upper
75	100		
110	30.8	15.9	47.6
77	29.5	24.6	36.8

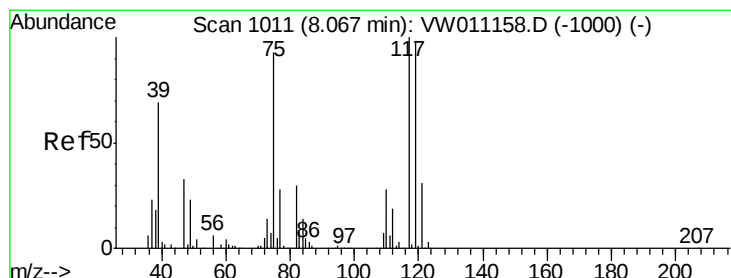
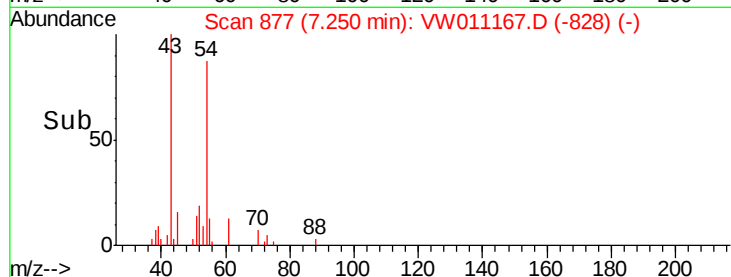
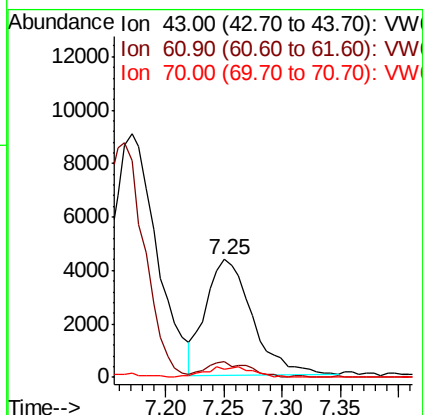
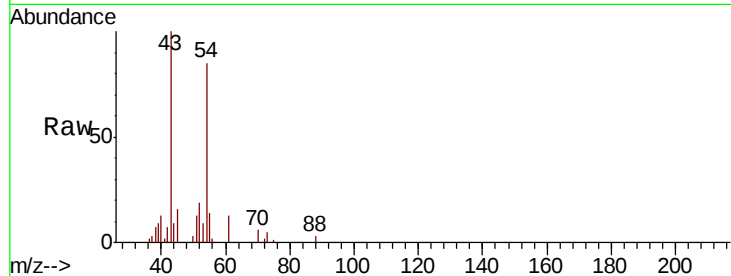




#37
Ethyl Acetate
Concen: 4.965 ug/l
RT: 7.25 min Scan# 877
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

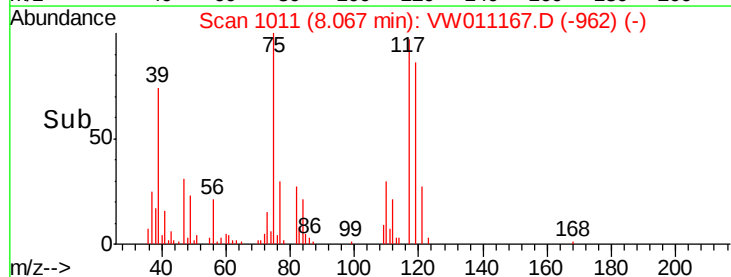
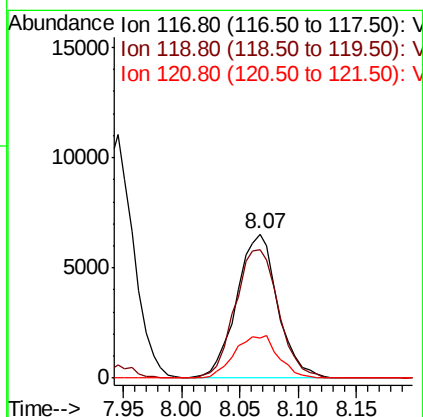
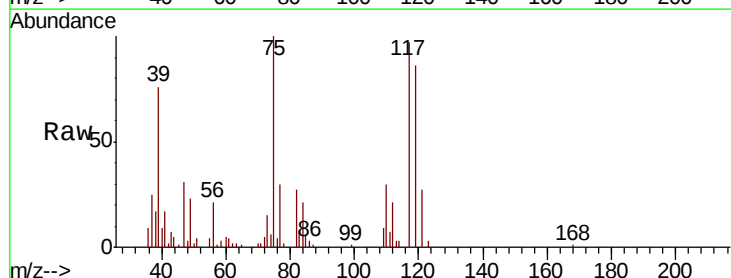
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

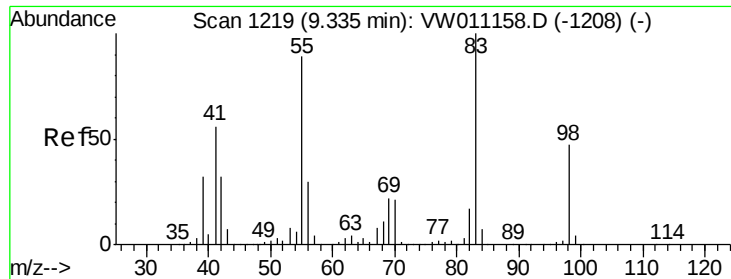
Tot Ion: 43 Resp: 11979
Ion Ratio Lower Upper
43 100
61 12.3 9.5 14.3
70 8.8 7.1 10.7



#38
Carbon Tetrachloride
Concen: 4.742 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion: 117 Resp: 16140
Ion Ratio Lower Upper
117 100
119 89.0 78.1 117.1
121 28.2 25.1 37.7

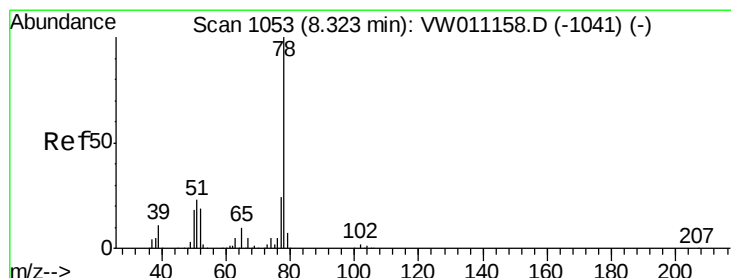
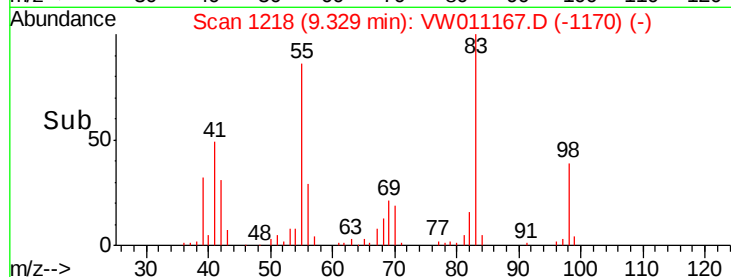
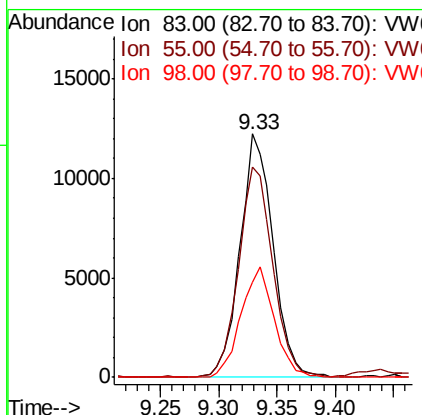
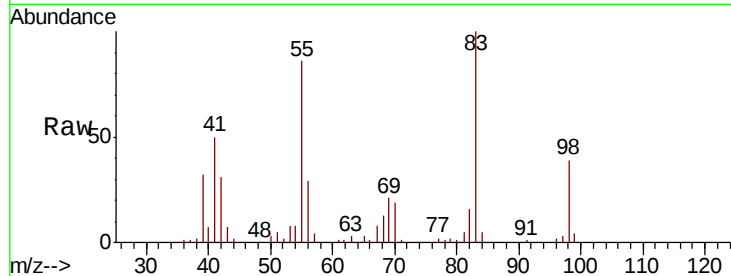




#39
Methvlcvclohexane
Concen: 4.980 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

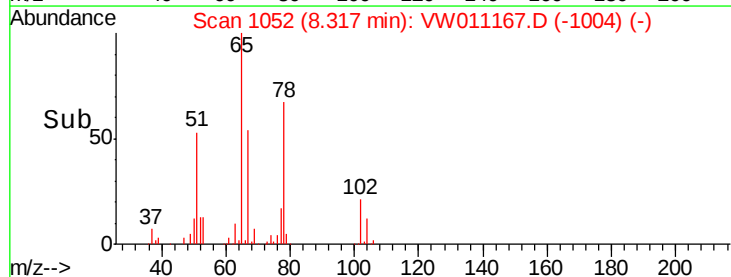
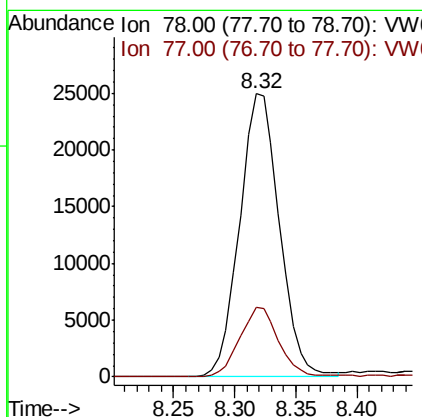
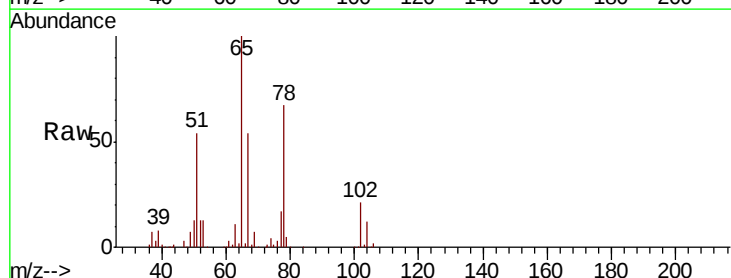
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

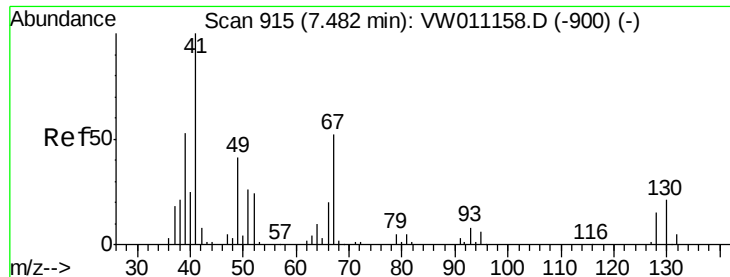
Tot Ion: 83 Resp: 24235
Ion Ratio Lower Upper
83 100
55 86.4 71.2 106.8
98 39.1 37.5 56.3



#40
Benzene
Concen: 5.096 ug/l
RT: 8.32 min Scan# 1052
Delta R.T. -0.01 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion: 78 Resp: 56552
Ion Ratio Lower Upper
78 100
77 24.8 19.0 28.6

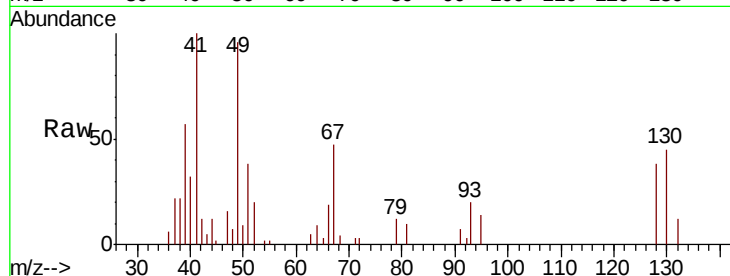




#41
Methacrylonitrile
Concen: 4.748 ug/l
RT: 7.49 min Scan# 916
Delta R.T. 0.01 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

Tot Ion:	41	Resp:	6552
Ion	Ratio	Lower	Upper
41	100		
39	62.8	48.0	72.0
67	59.2	49.7	74.5
52	27.7	23.4	35.0



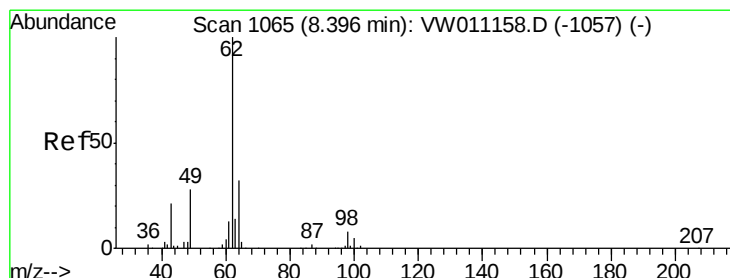
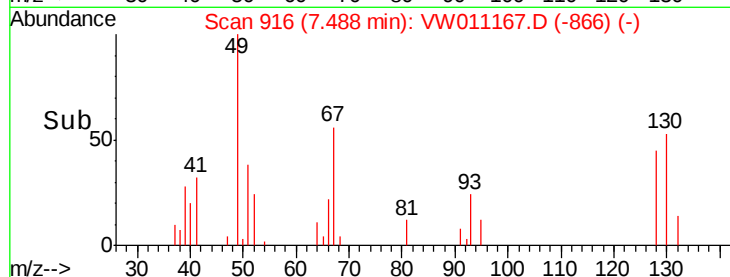
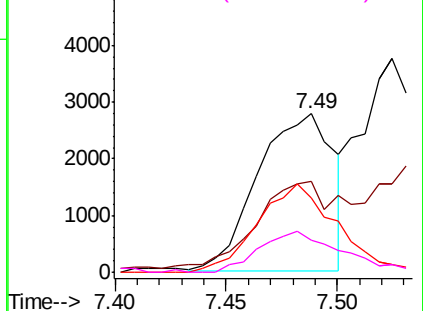
Abundance

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

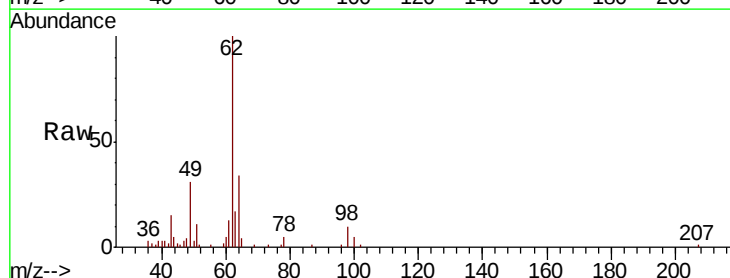
Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW



#42
1,2-Dichloroethane
Concen: 5.120 ug/l
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

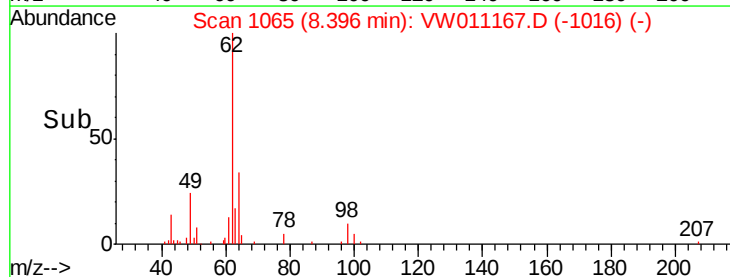
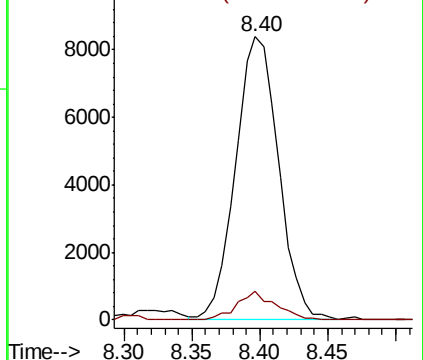
Tgt Ion:	62	Resp:	18432
Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	16.8

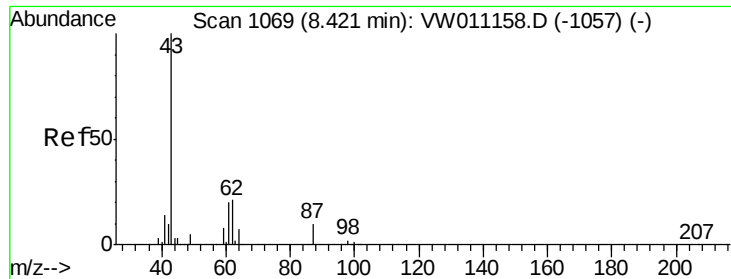


Abundance

Ion 61.90 (61.60 to 62.60): VW

Ion 97.90 (97.60 to 98.60): VW





#43

Isopropyl Acetate

Concen: 4.695 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT3-2019

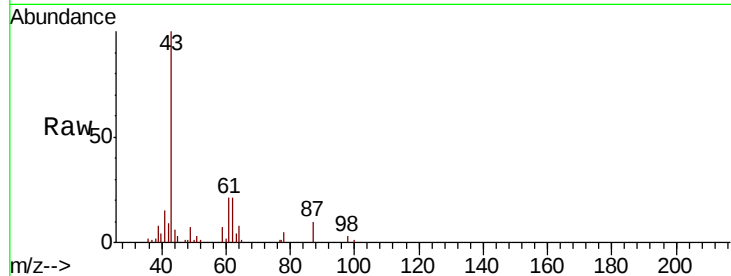
Tot Ion: 43 Resp: 21387

Ion Ratio Lower Upper

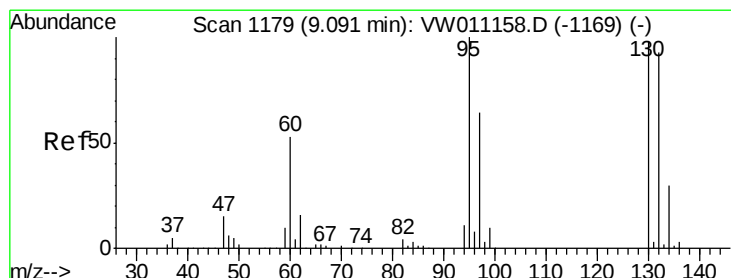
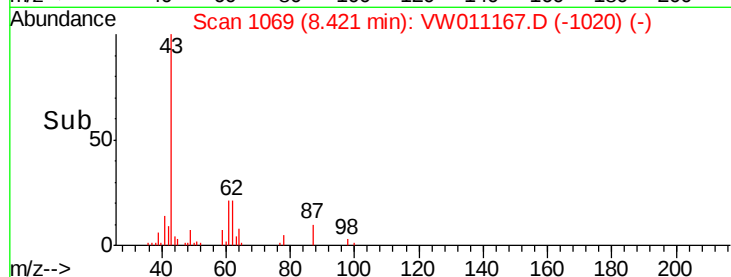
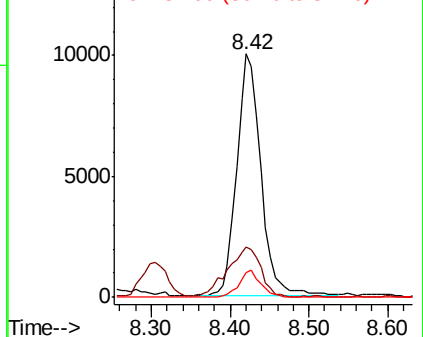
43 100

61 28.5 20.7 31.1

87 9.9 8.1 12.1



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 61.00 (60.70 to 61.70): VW
Ion 87.00 (86.70 to 87.70): VW



#44

Trichloroethene

Concen: 4.997 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW011167.D

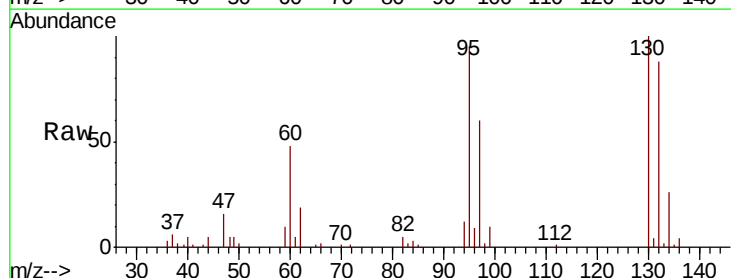
Acq: 08 Jul 2019 18:07

Tgt Ion:130 Resp: 13345

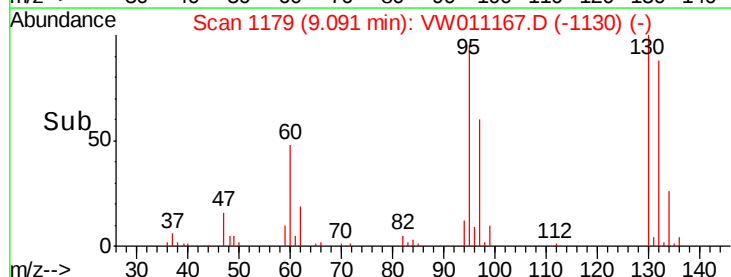
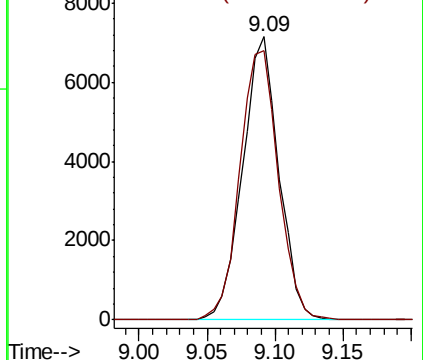
Ion Ratio Lower Upper

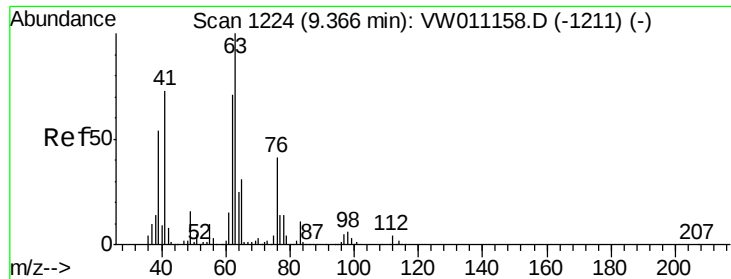
130 100

95 95.3 0.0 203.6



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VW





#45

1,2-Dichloropropane

Concen: 5.098 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

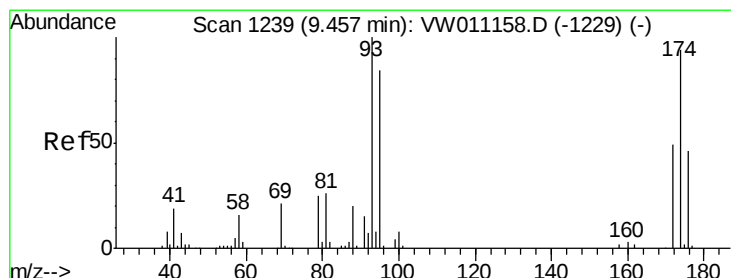
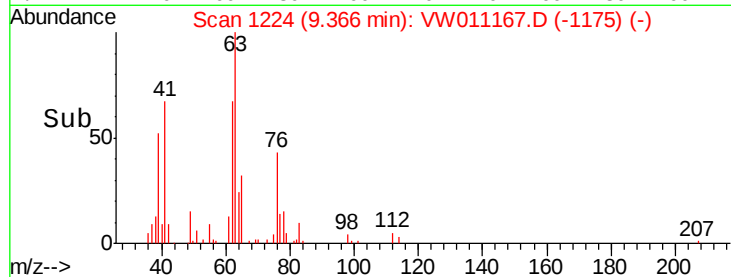
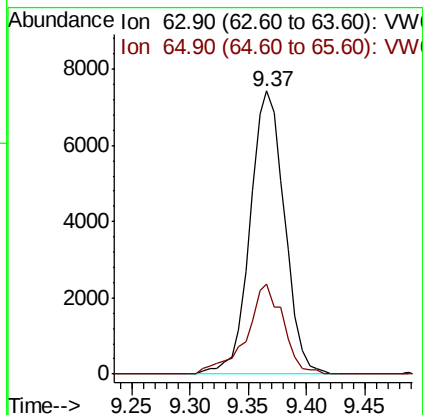
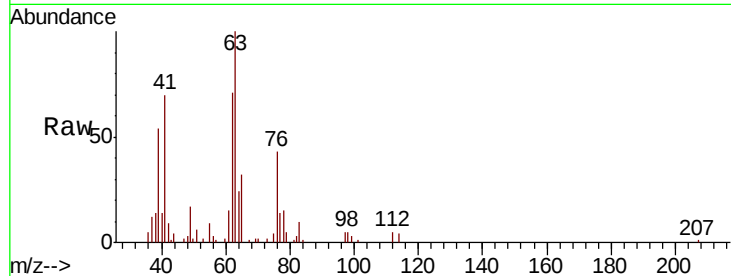
LOQ-SOIL-02-QT3-2019

Tot Ion: 63 Resp: 15319

Ion Ratio Lower Upper

63 100

65 32.0 24.4 36.6



#46

Dibromomethane

Concen: 5.006 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

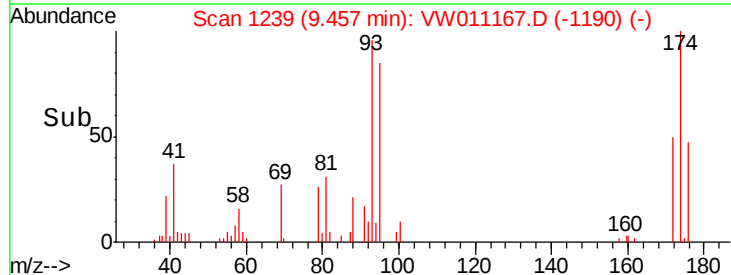
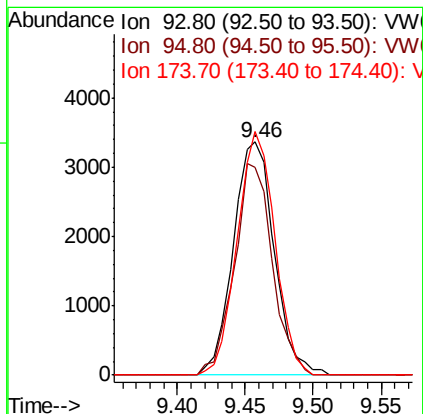
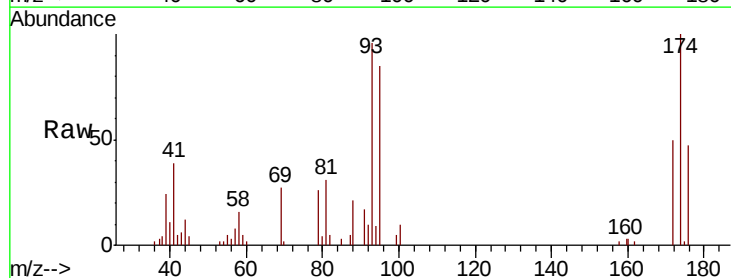
Tgt Ion: 93 Resp: 7066

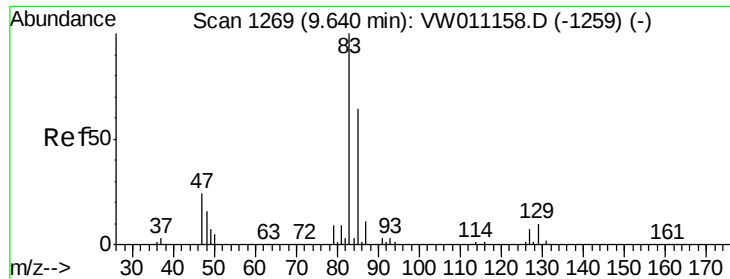
Ion Ratio Lower Upper

93 100

95 84.4 67.2 100.8

174 96.4 76.3 114.5





#47

Bromodichloromethane

Concen: 4.762 ug/l

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT3-2019

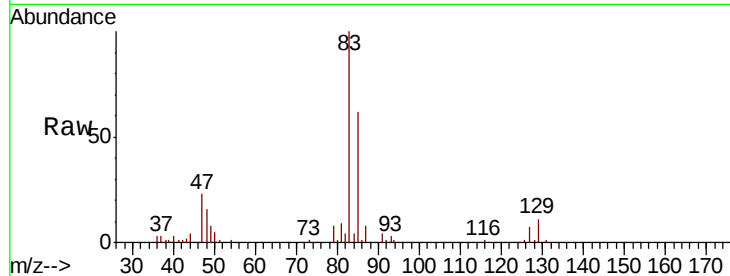
Tot Ion: 83 Resp: 17201

Ion Ratio Lower Upper

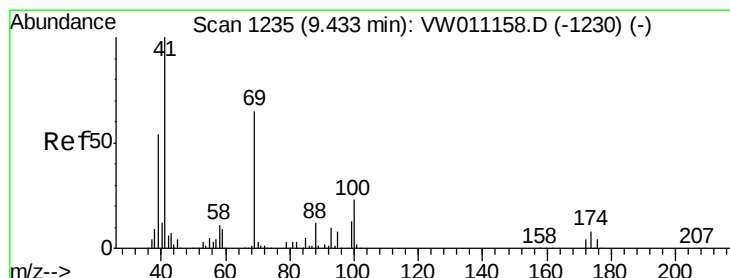
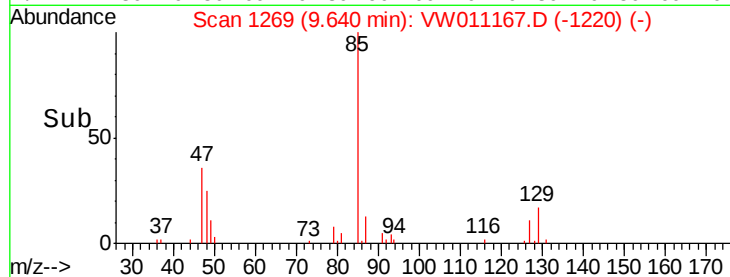
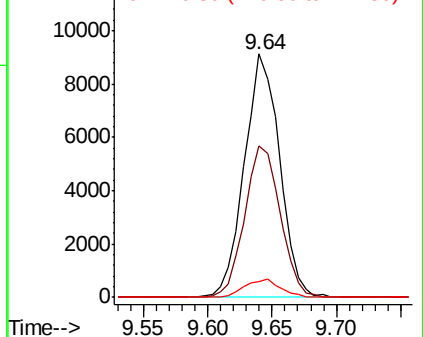
83 100

85 62.0 51.0 76.4

127 6.6 6.0 9.0



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



#48

Methyl methacrylate

Concen: 4.580 ug/l

RT: 9.44 min Scan# 1236

Delta R.T. 0.01 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

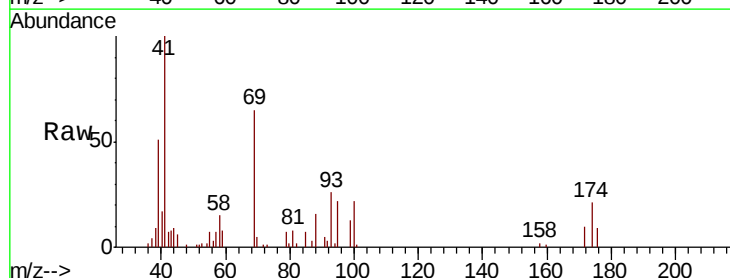
Tgt Ion: 41 Resp: 10037

Ion Ratio Lower Upper

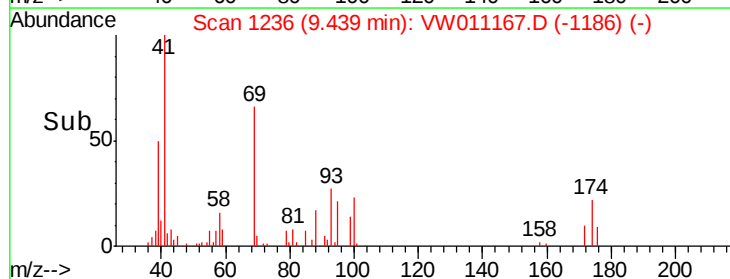
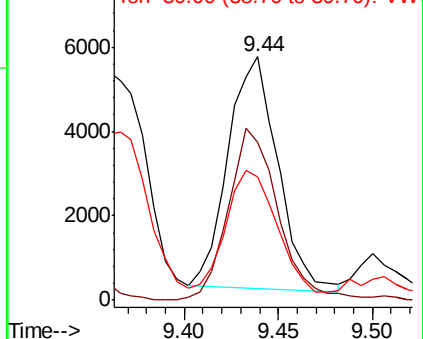
41 100

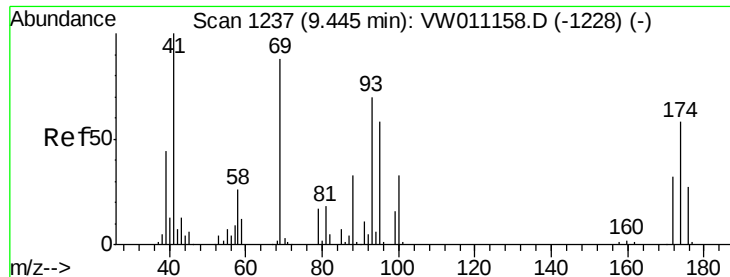
69 75.4 56.0 84.0

39 53.5 43.5 65.3



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





#49

1,4-Dioxane

Concen: 96.891 ug/l

RT: 9.45 min Scan# 1238

Delta R.T. 0.01 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT3-2019

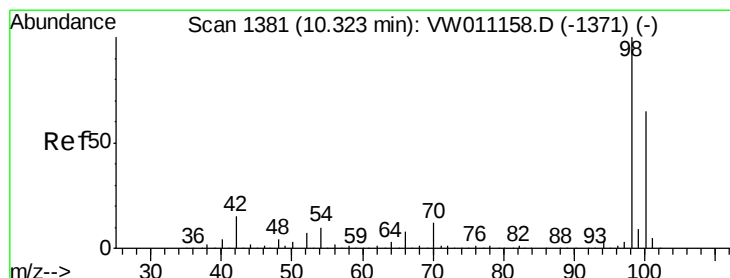
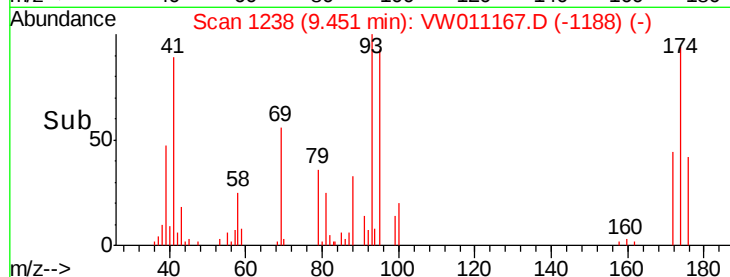
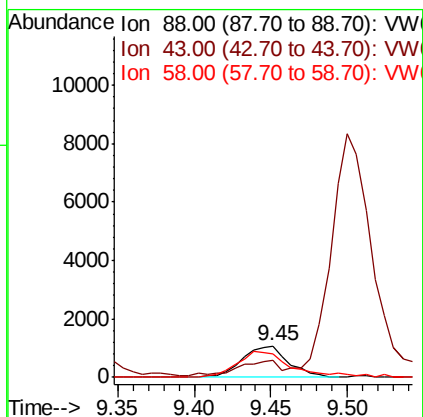
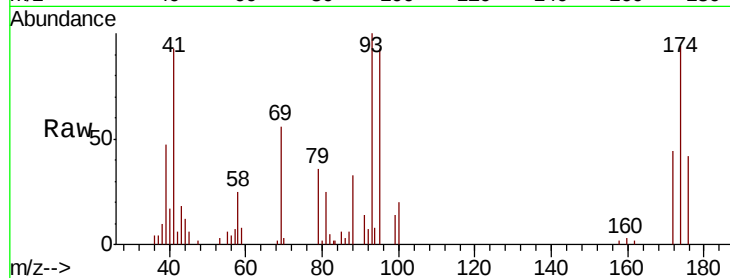
Tot Ion: 88 Resp: 2283

Ion Ratio Lower Upper

88 100

43 38.8 33.4 50.0

58 97.0 64.5 96.7#



#50

Toluene-d8

Concen: 48.979 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW011167.D

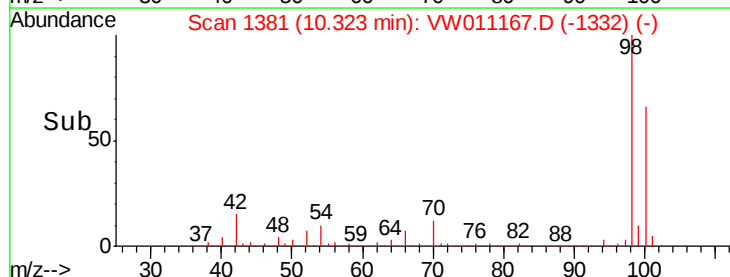
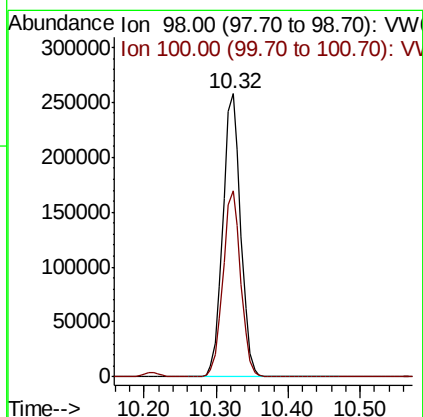
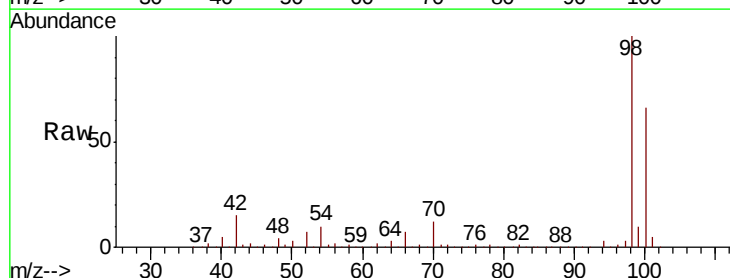
Acq: 08 Jul 2019 18:07

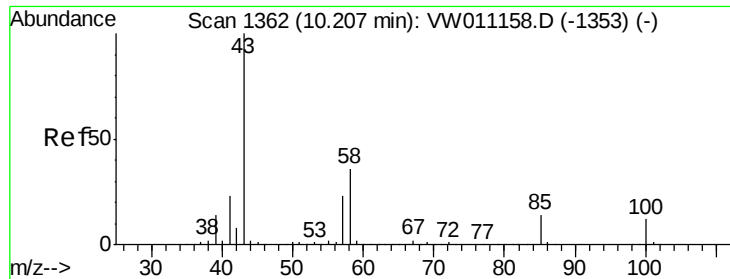
Tgt Ion: 98 Resp: 444965

Ion Ratio Lower Upper

98 100

100 65.4 52.4 78.6





#51

4-Methyl-2-Pentanone

Concen: 23.447 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

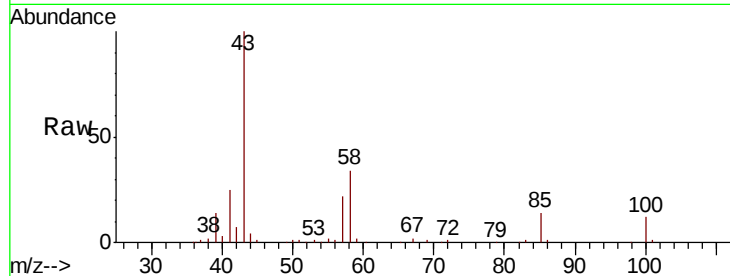
LOQ-SOIL-02-QT3-2019

Tot Ion: 43 Resp: 55789

Ion Ratio Lower Upper

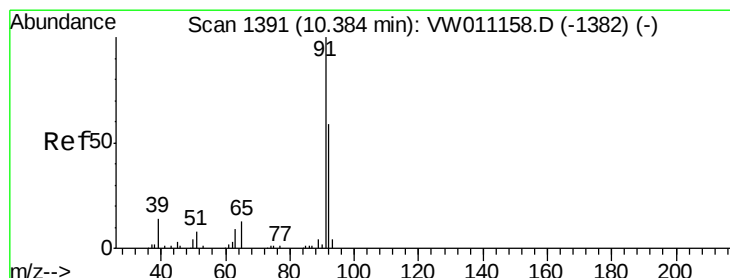
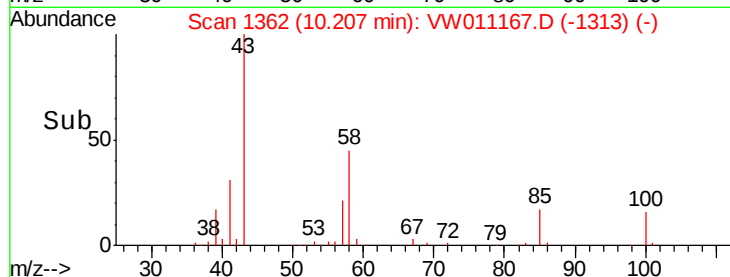
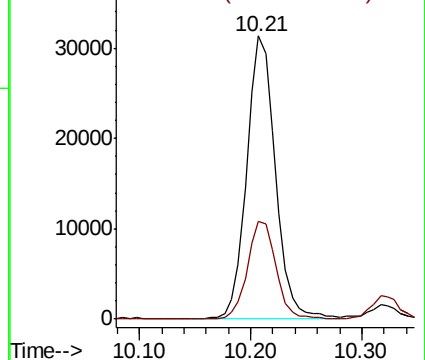
43 100

58 34.9 28.2 42.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#52

Toluene

Concen: 5.134 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW011167.D

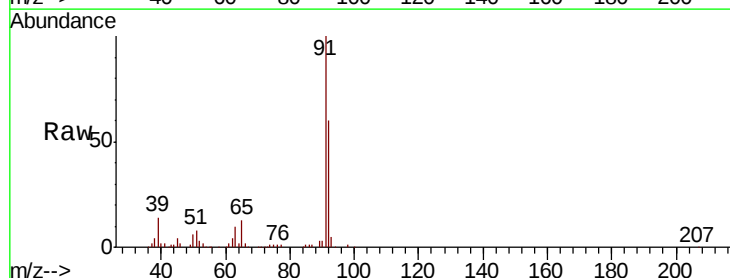
Acq: 08 Jul 2019 18:07

Tgt Ion: 92 Resp: 34559

Ion Ratio Lower Upper

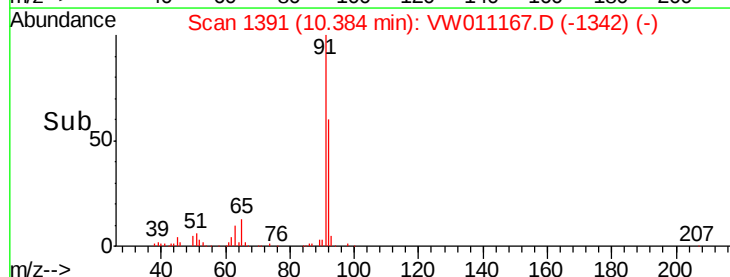
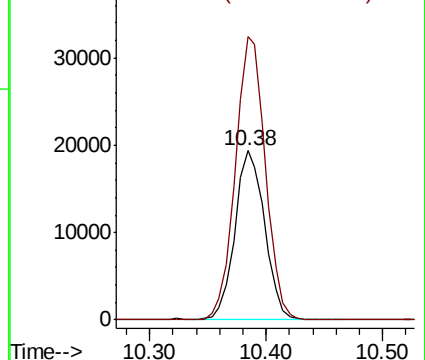
92 100

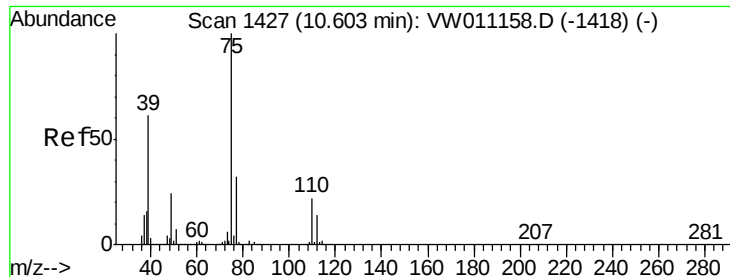
91 168.2 136.6 205.0



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW





#53

t-1,3-Dichloropropene

Concen: 4.383 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

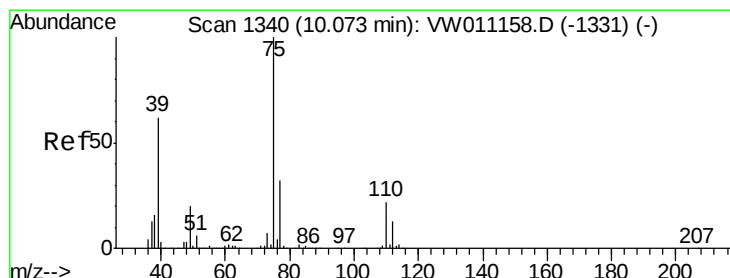
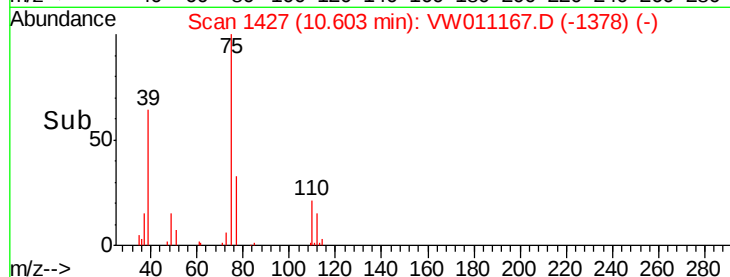
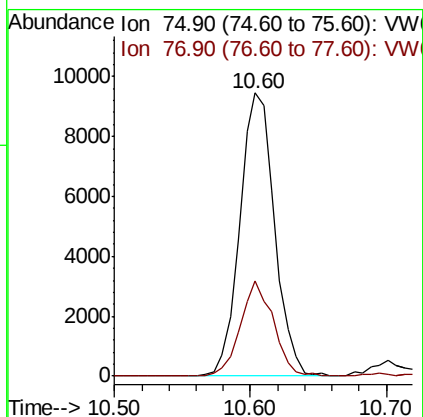
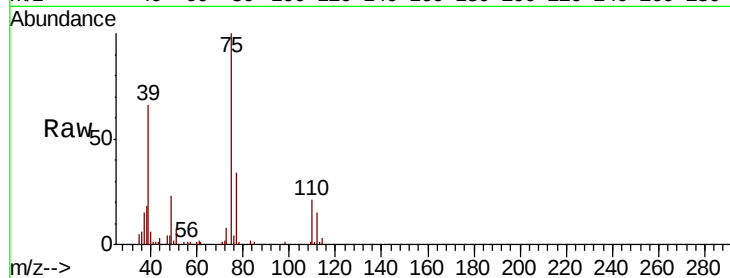
LOQ-SOIL-02-QT3-2019

Tot Ion: 75 Resp: 16850

Ion Ratio Lower Upper

75 100

77 33.7 25.4 38.0



#54

cis-1,3-Dichloropropene

Concen: 4.491 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

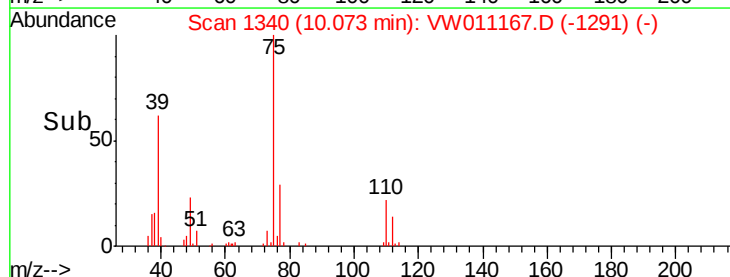
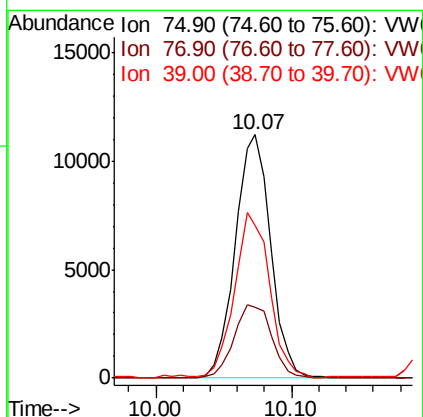
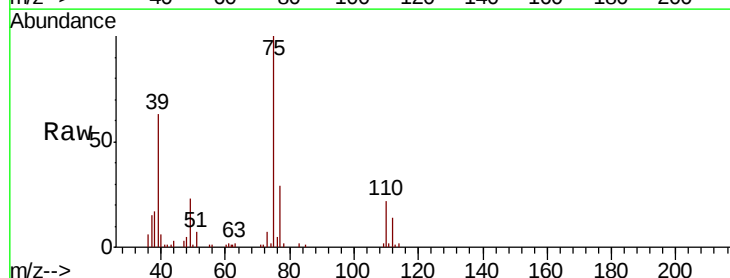
Tgt Ion: 75 Resp: 20324

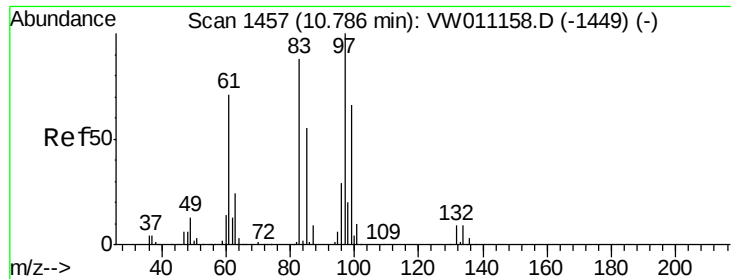
Ion Ratio Lower Upper

75 100

77 29.2 25.7 38.5

39 62.0 49.8 74.8





#55

1,1,2-Trichloroethane

Concen: 4.913 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT3-2019

Tot Ion: 97 Resp: 9838

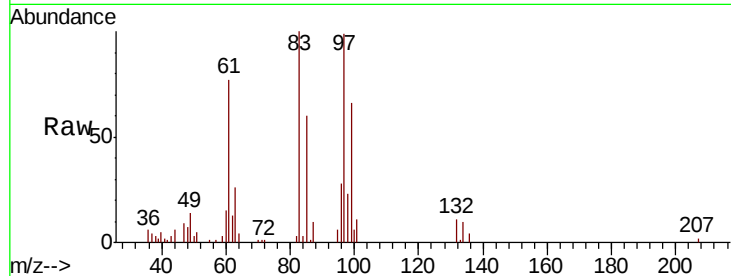
Ion Ratio Lower Upper

97 100

83 100.9 70.2 105.4

85 60.2 44.2 66.2

99 66.3 52.6 79.0



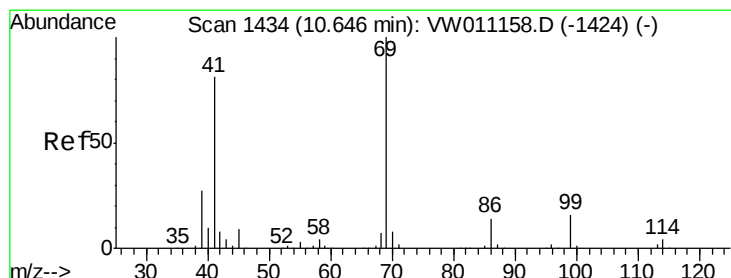
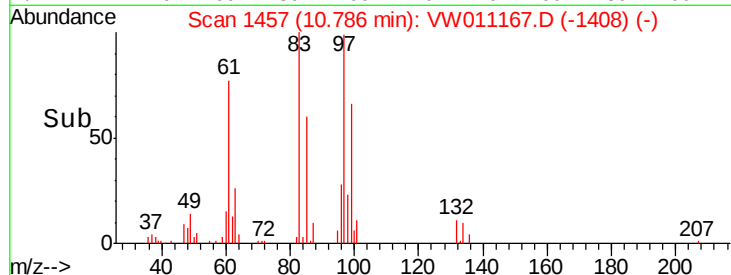
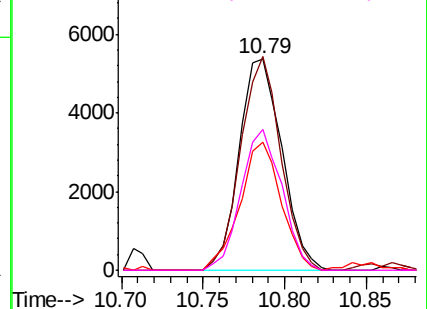
Abundance

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: 4.662 ug/l

RT: 10.65 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

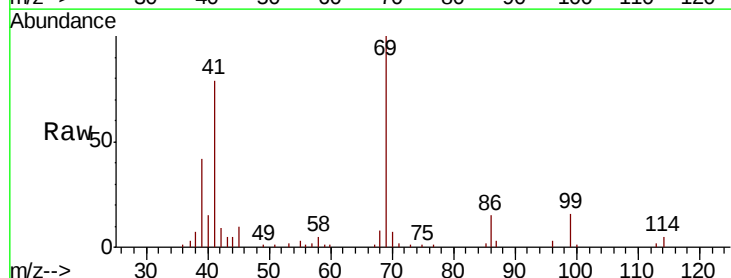
Tgt Ion: 69 Resp: 14213

Ion Ratio Lower Upper

69 100

41 79.4 66.5 99.7

39 41.9 32.5 48.7

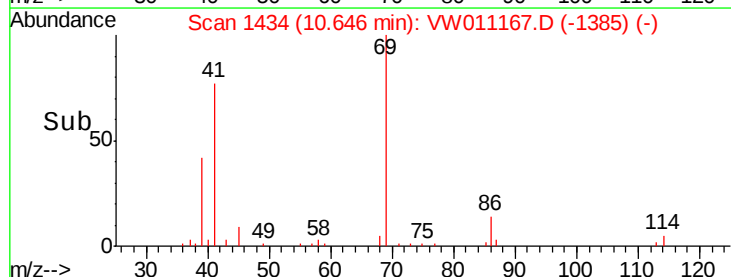
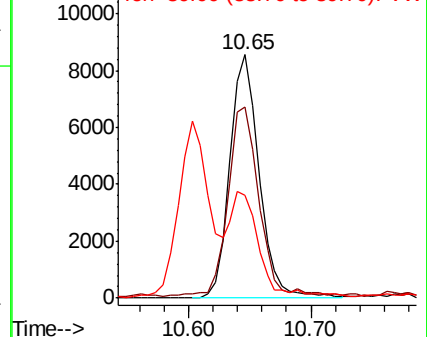


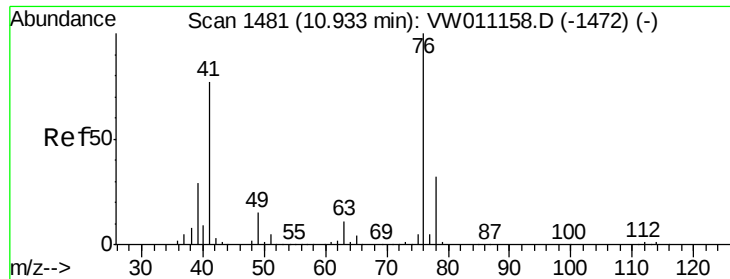
Abundance

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

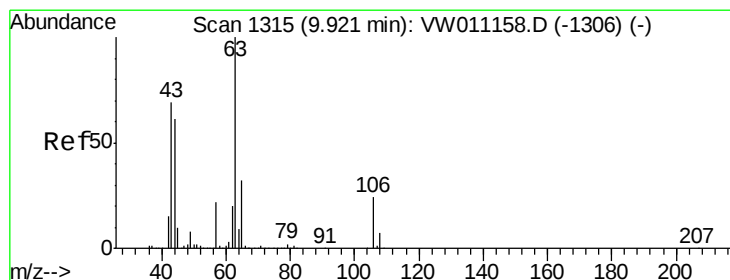
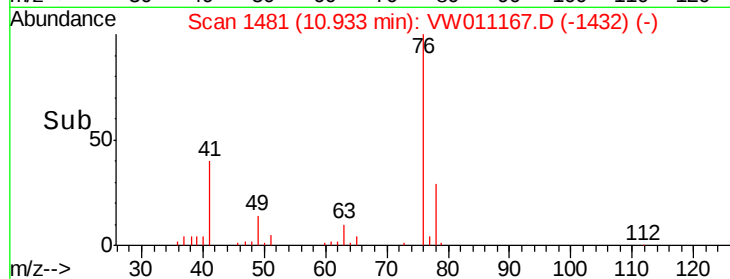
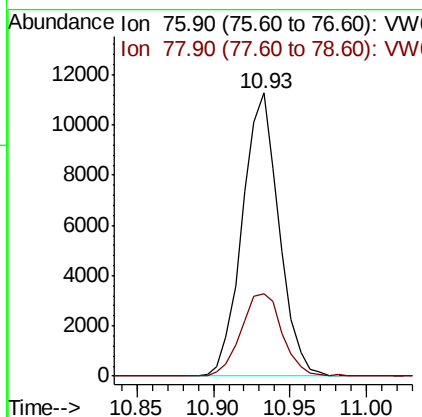
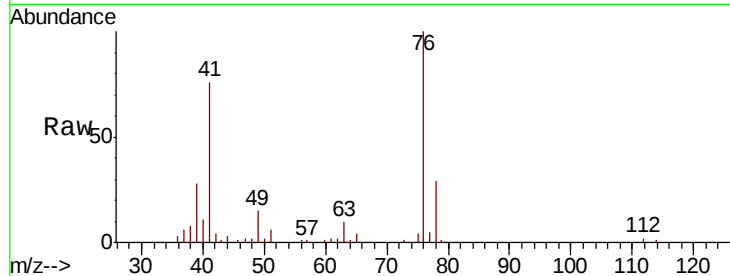




#57
 1,3-Dichloropropane
 Concen: 4.945 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. 0.00 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

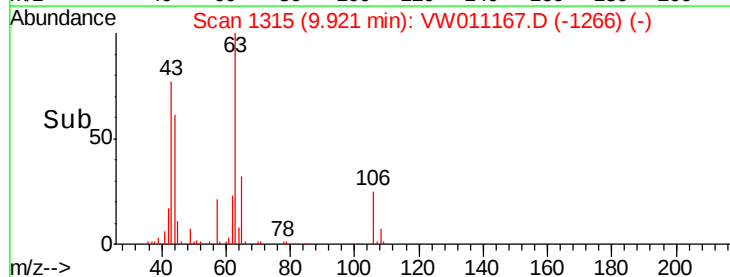
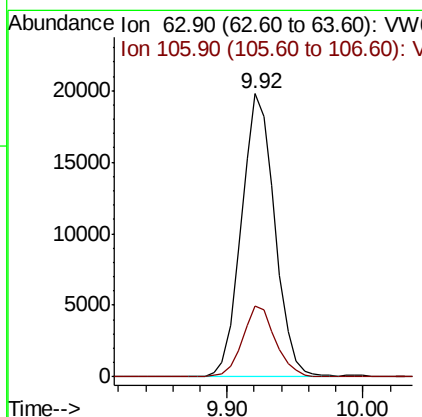
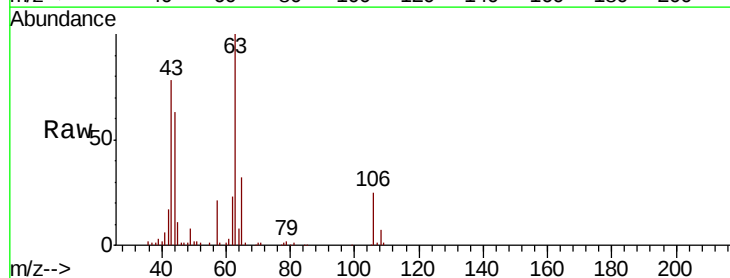
Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT3-2019

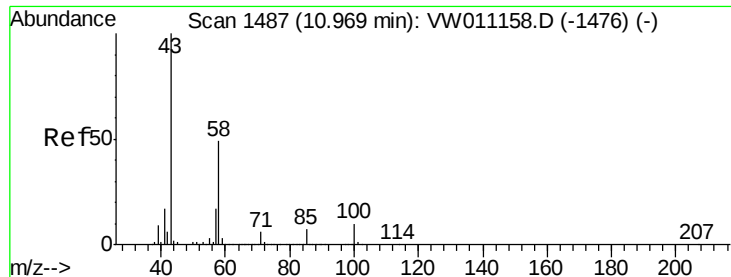
Tot Ion: 76 Resp: 18725
 Ion Ratio Lower Upper
 76 100
 78 32.7 26.2 39.2



#58
 2-Chloroethyl Vinyl ether
 Concen: 23.949 ug/l
 RT: 9.92 min Scan# 1315
 Delta R.T. 0.00 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

Tgt Ion: 63 Resp: 33852
 Ion Ratio Lower Upper
 63 100
 106 24.7 19.4 29.0

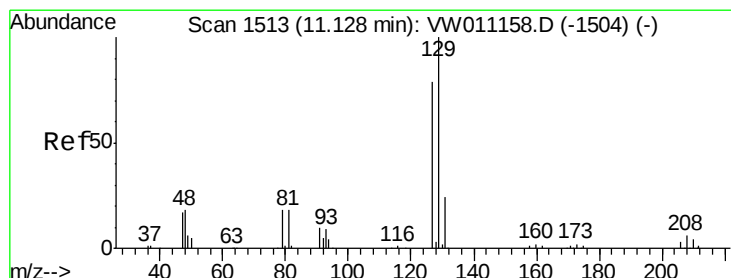
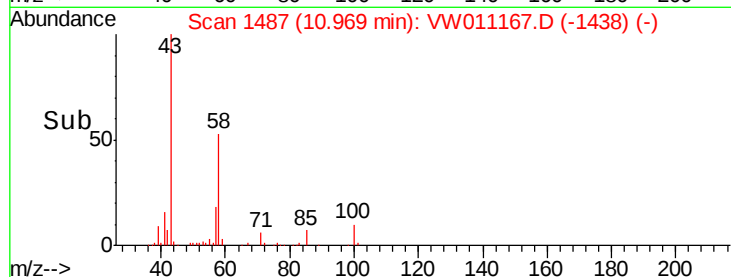
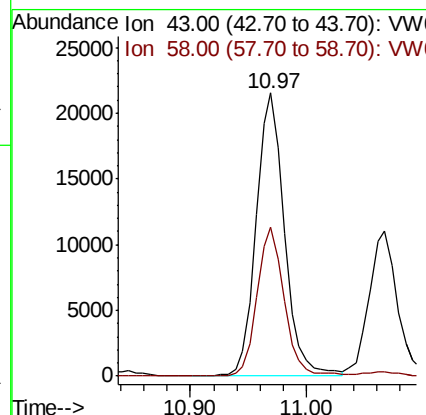
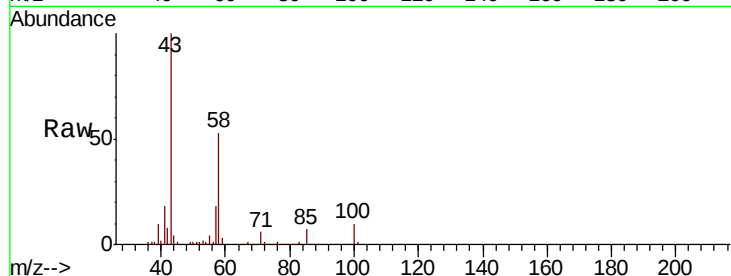




#59
2-Hexanone
Concen: 22.164 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

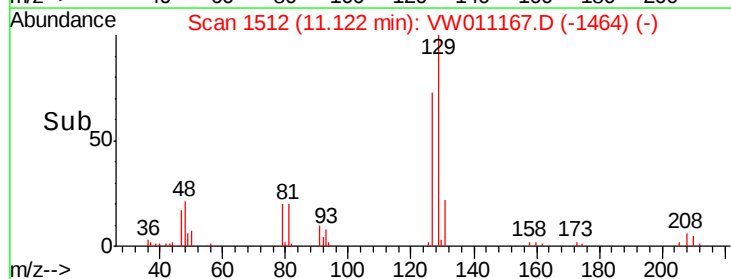
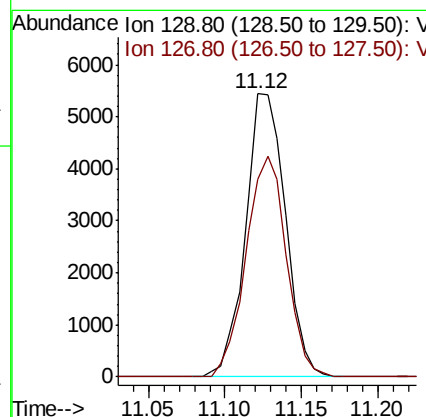
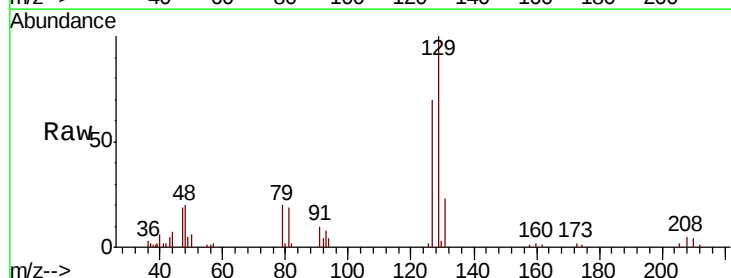
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

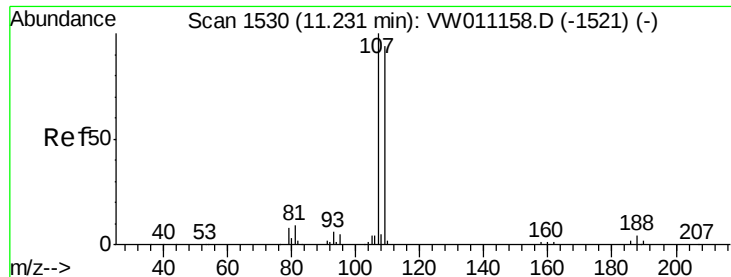
Tot Ion: 43 Resp: 36573
Ion Ratio Lower Upper
43 100
58 50.7 24.4 73.4



#60
Dibromochloromethane
Concen: 4.489 ug/l
RT: 11.12 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion: 129 Resp: 9858
Ion Ratio Lower Upper
129 100
127 78.8 39.1 117.3

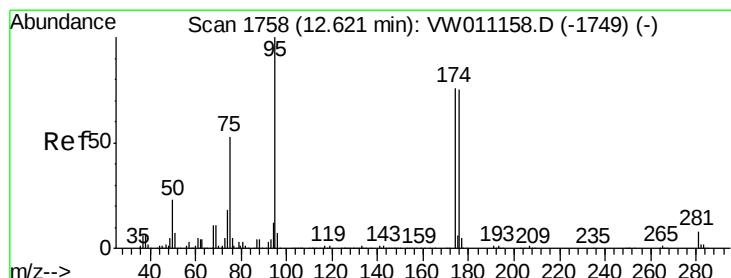
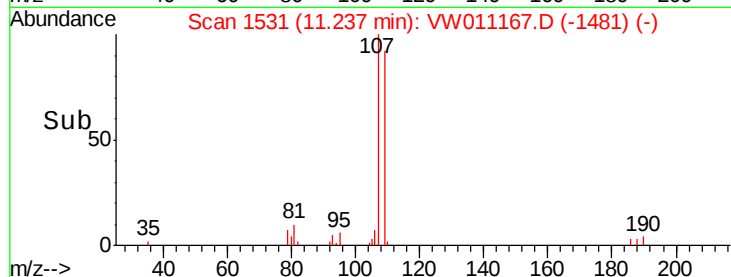
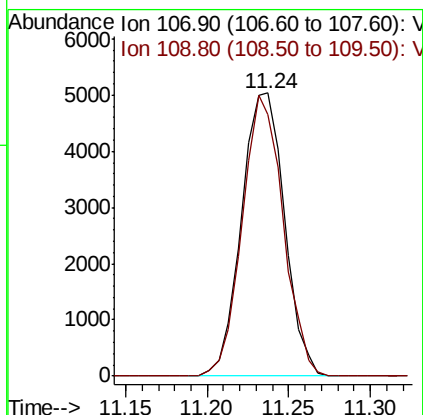
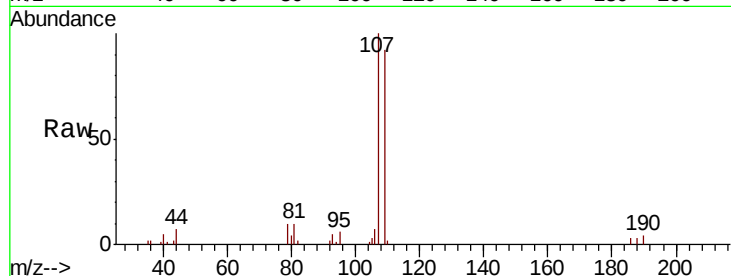




#61
1,2-Dibromoethane
Concen: 4.862 ug/l
RT: 11.24 min Scan# 1531
Delta R.T. 0.01 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

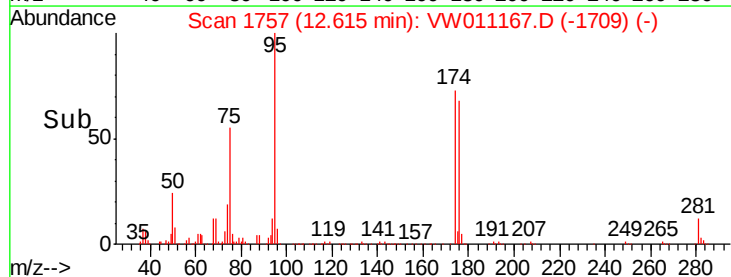
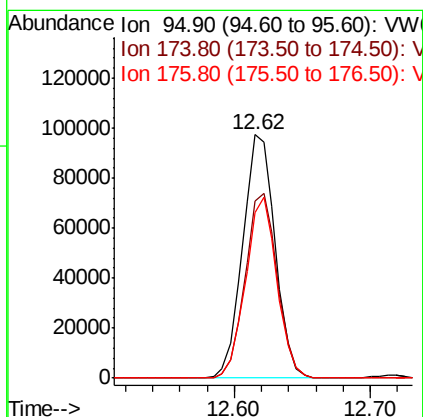
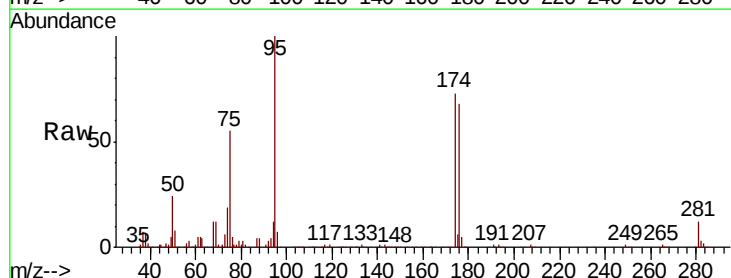
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

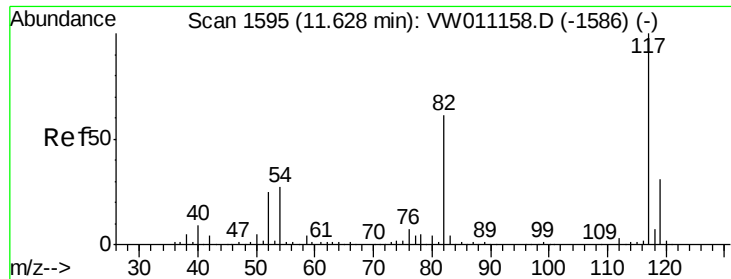
Tot Ion: 107 Resp: 9222
Ion Ratio Lower Upper
107 100
109 94.4 75.2 112.8



#62
4-Bromofluorobenzene
Concen: 48.647 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.01 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion: 95 Resp: 161989
Ion Ratio Lower Upper
95 100
174 75.4 0.0 147.6
176 71.8 0.0 144.6

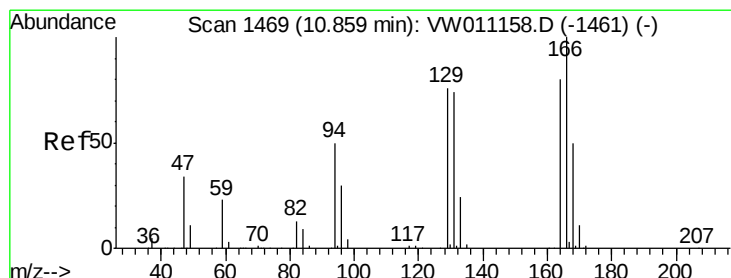
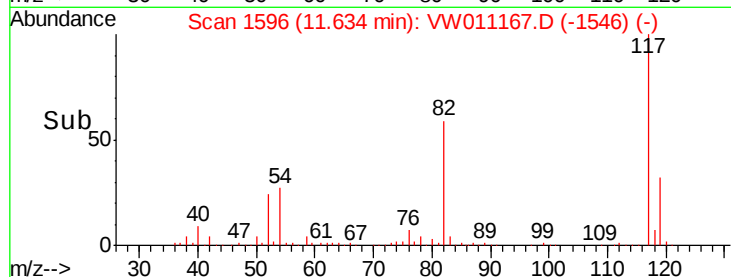
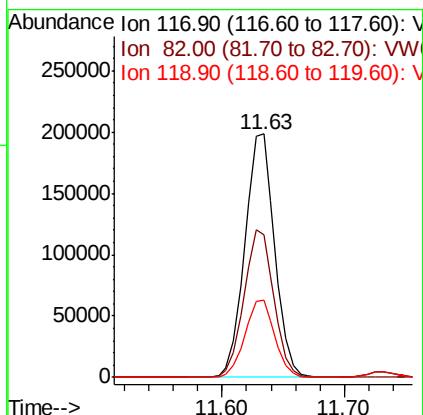
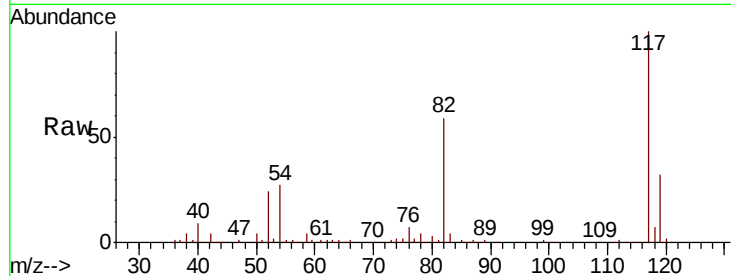




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.01 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

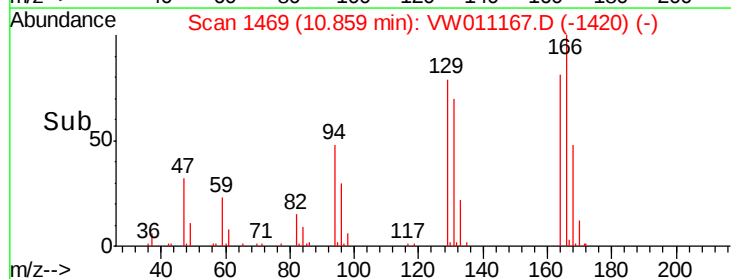
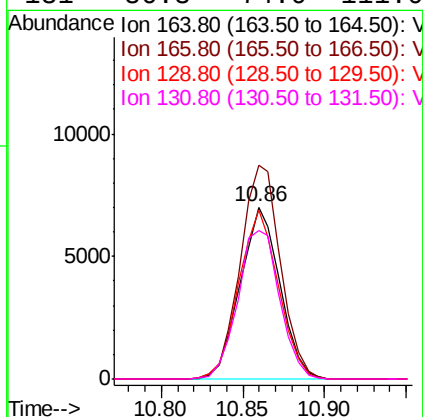
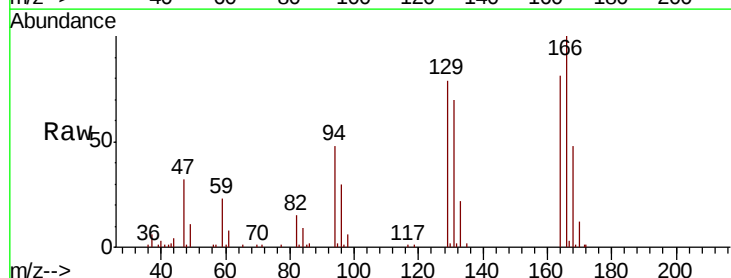
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

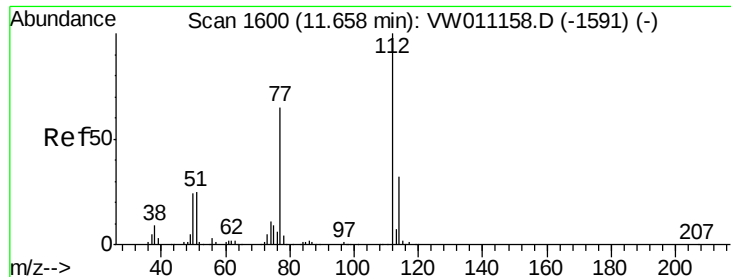
Tot Ion:117 Resp: 336435
Ion Ratio Lower Upper
117 100
82 58.7 48.9 73.3
119 31.9 25.0 37.6



#64
Tetrachloroethene
Concen: 5.240 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion:164 Resp: 11895
Ion Ratio Lower Upper
164 100
166 124.1 99.7 149.5
129 98.1 76.2 114.2
131 86.3 74.0 111.0

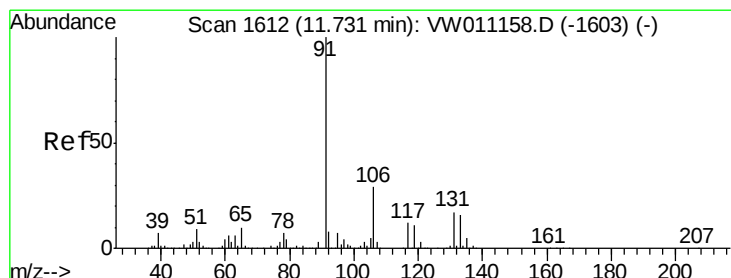
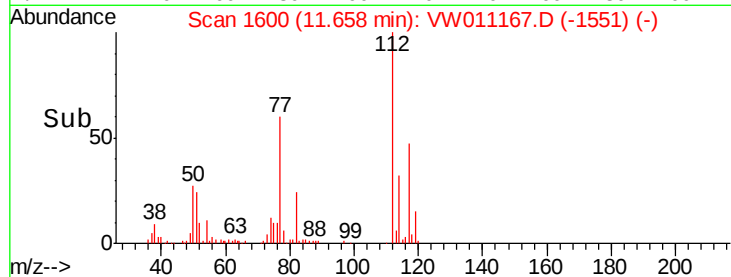
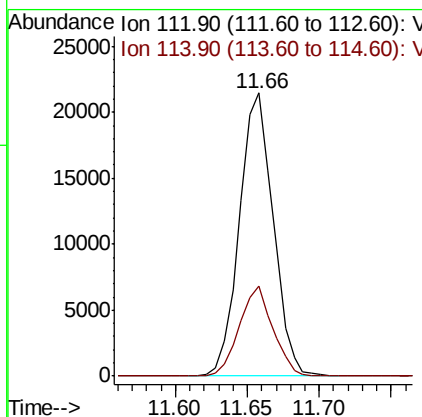
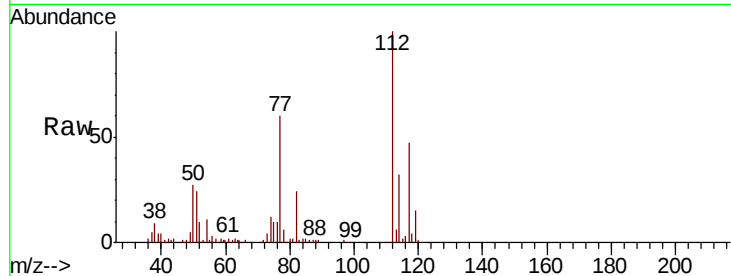




#65
Chlorobenzene
Concen: 5.094 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

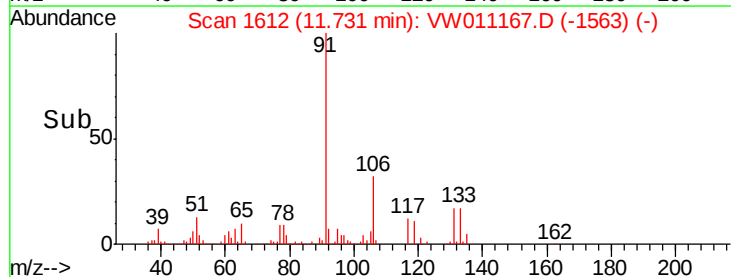
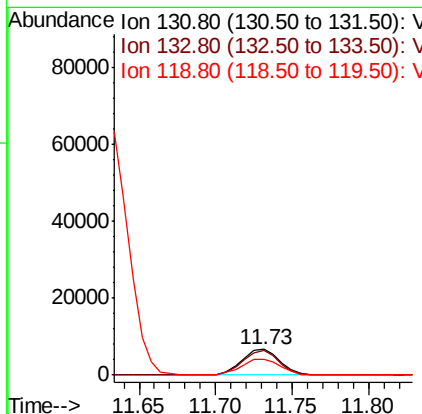
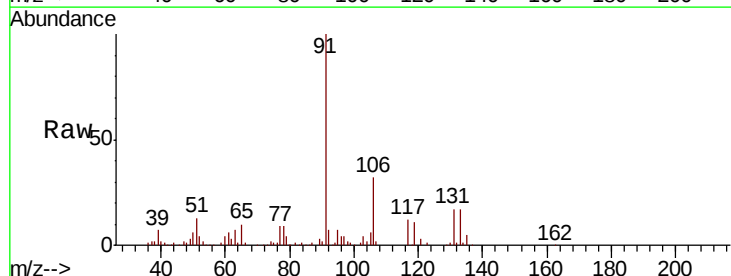
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

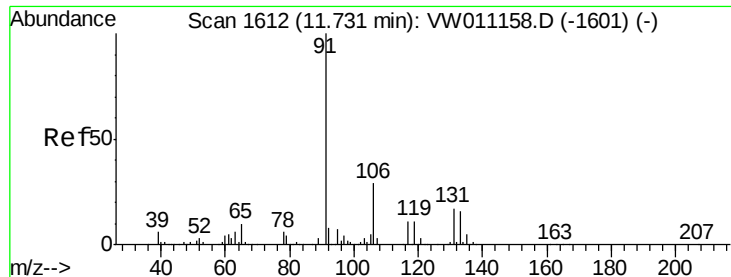
Tot Ion:112 Resp: 34845
Ion Ratio Lower Upper
112 100
114 31.7 25.5 38.3



#66
1,1,1,2-Tetrachloroethane
Concen: 4.817 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion:131 Resp: 11601
Ion Ratio Lower Upper
131 100
133 93.0 47.9 143.8
119 64.9 33.1 99.2

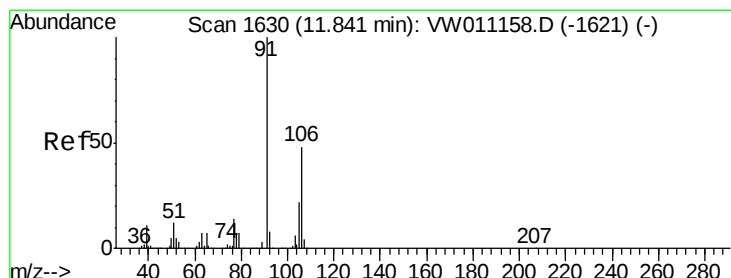
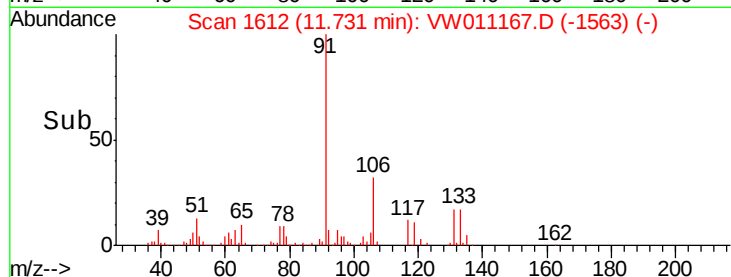
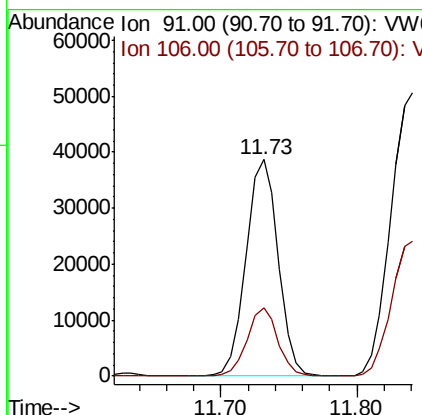
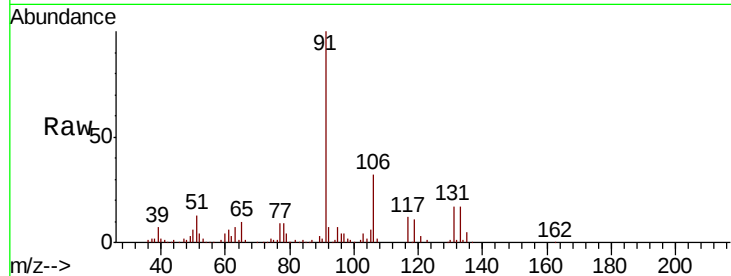




#67
Ethyl Benzene
Concen: 4.888 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

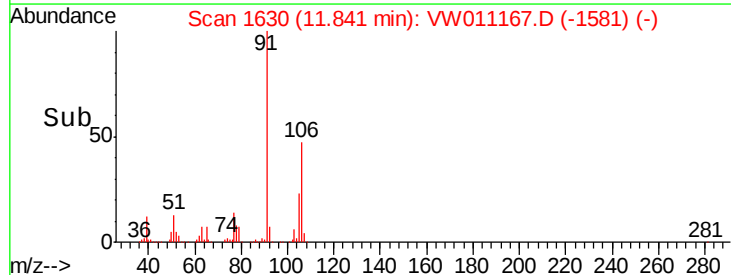
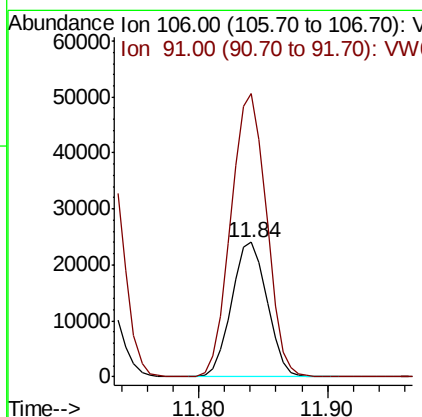
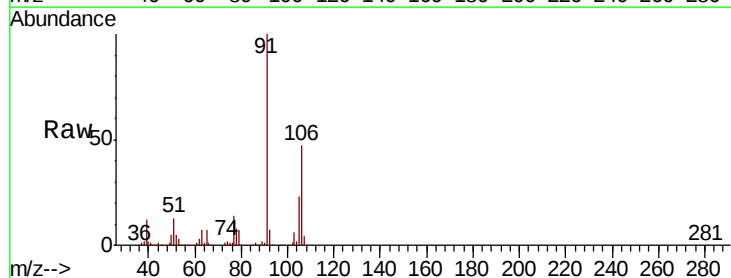
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

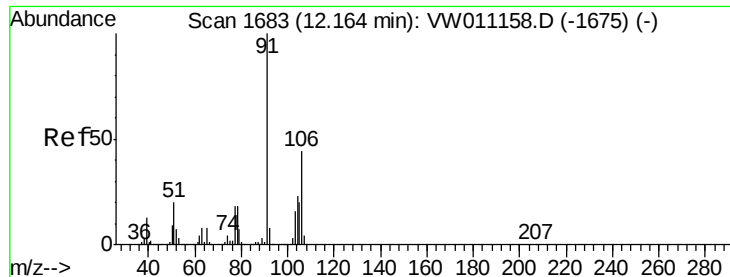
Tot Ion: 91 Resp: 64008
Ion Ratio Lower Upper
91 100
106 31.7 23.5 35.3



#68
m/p-Xylenes
Concen: 9.756 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion: 106 Resp: 46226
Ion Ratio Lower Upper
106 100
91 209.6 167.7 251.5

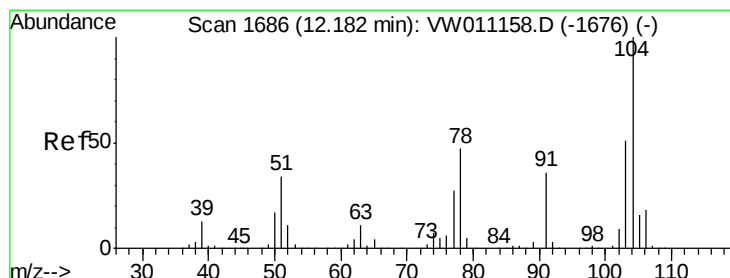
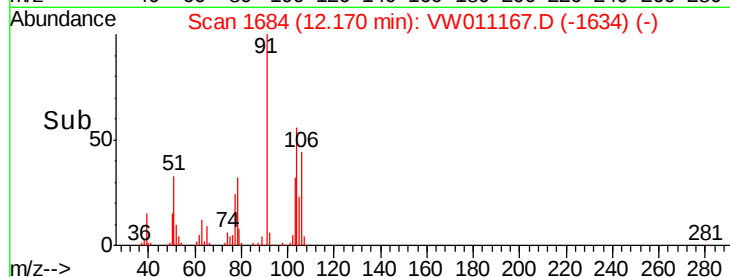
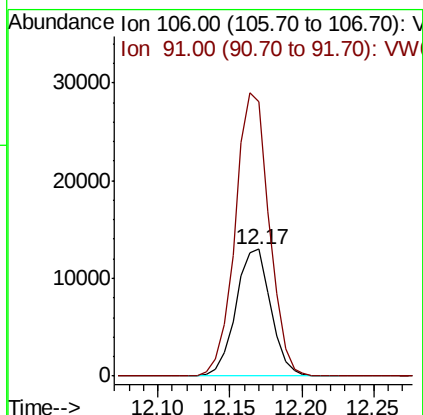
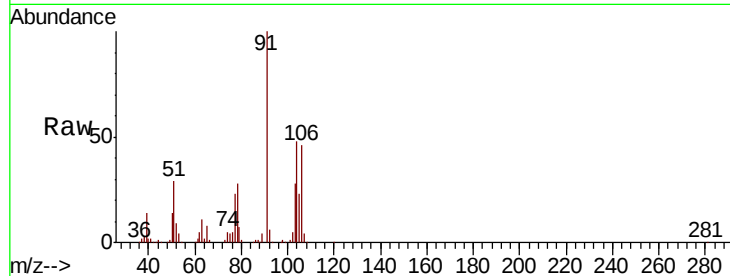




#69
o-Xylene
Concen: 4.885 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. 0.01 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

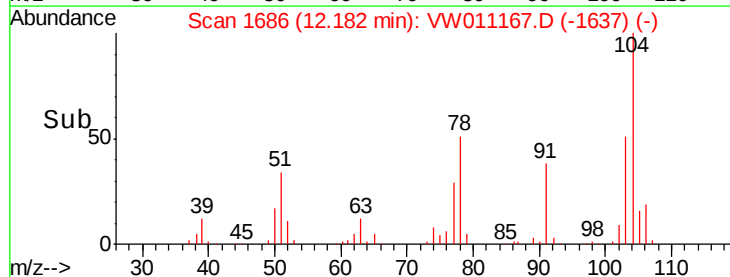
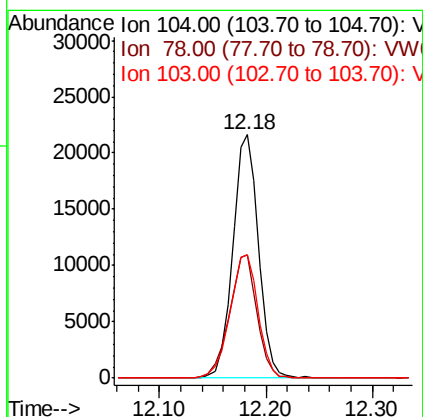
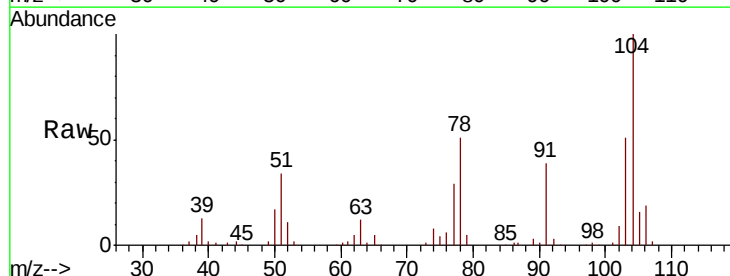
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

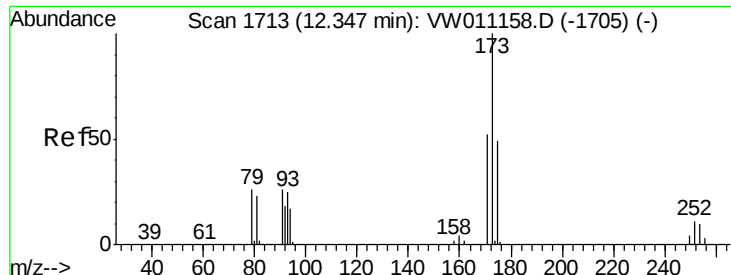
Tot Ion:106 Resp: 21815
Ion Ratio Lower Upper
106 100
91 217.9 110.7 332.1



#70
Styrene
Concen: 4.729 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion:104 Resp: 36444
Ion Ratio Lower Upper
104 100
78 54.2 43.1 64.7
103 55.3 44.1 66.1

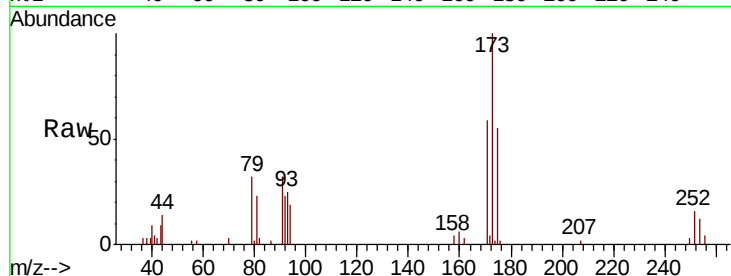




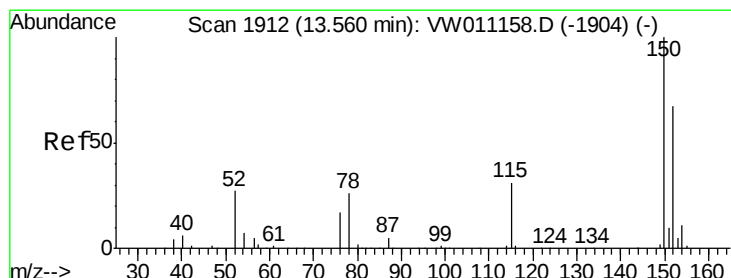
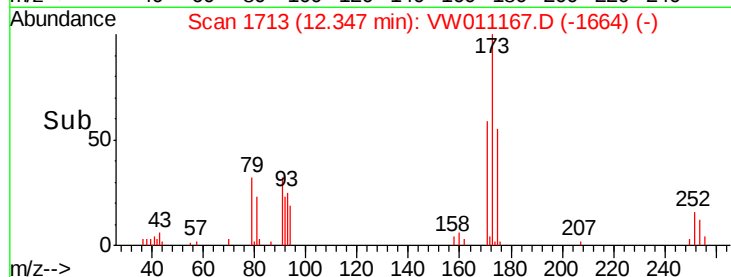
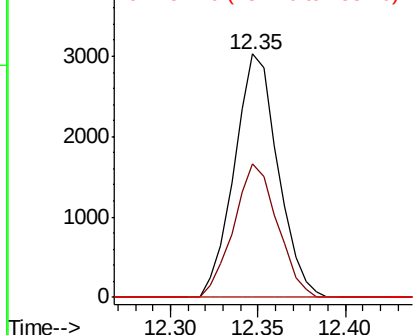
#71
Bromoform
Concen: 4.093 ug/l
RT: 12.35 min Scan# 1713
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

Tot Ion:173 Resp: 5241
Ion Ratio Lower Upper
173 100
175 55.0 24.8 74.3
254 0.0 0.0 0.0

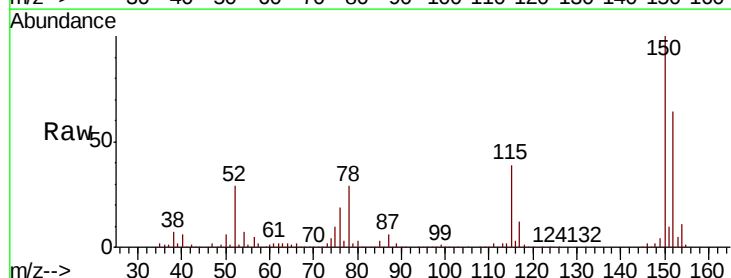


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

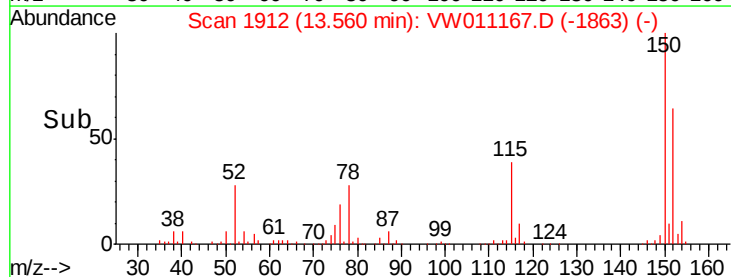
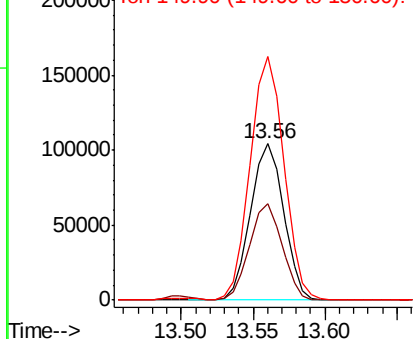


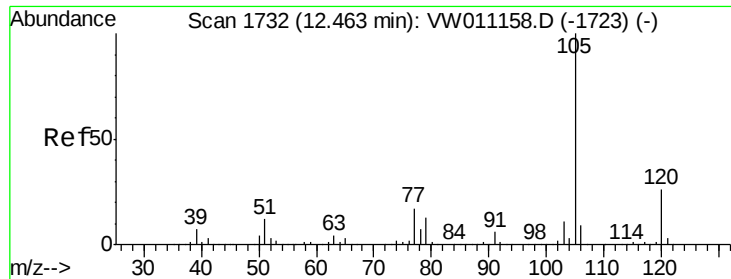
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion:152 Resp: 165853
Ion Ratio Lower Upper
152 100
115 60.8 30.1 90.3
150 158.7 0.0 346.0



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





#73

Isopropylbenzene

Concen: 4.724 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

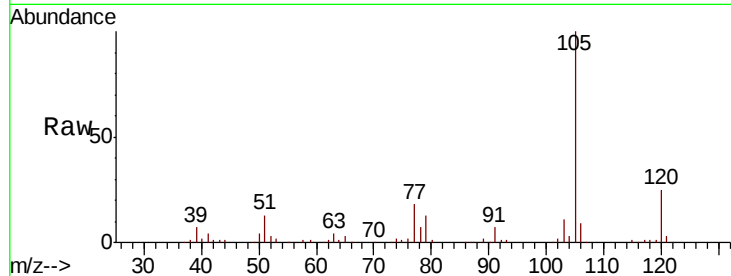
LOQ-SOIL-02-QT3-2019

Tot Ion:105 Resp: 58563

Ion Ratio Lower Upper

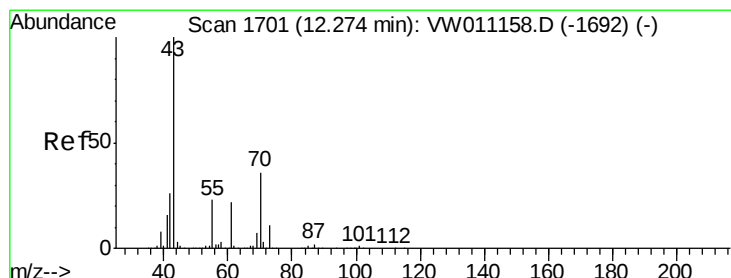
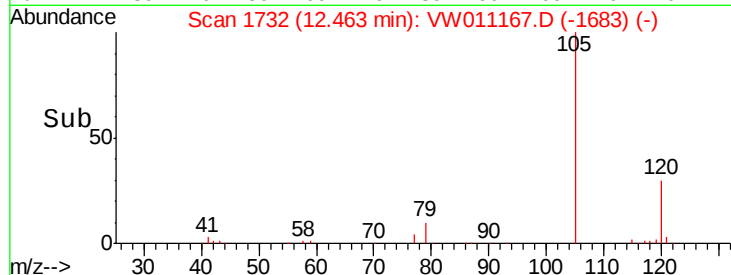
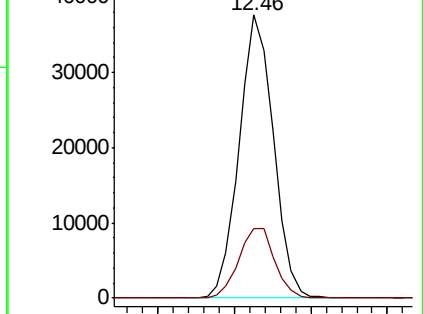
105 100

120 25.9 12.8 38.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 4.286 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Tgt Ion: 43 Resp: 18508

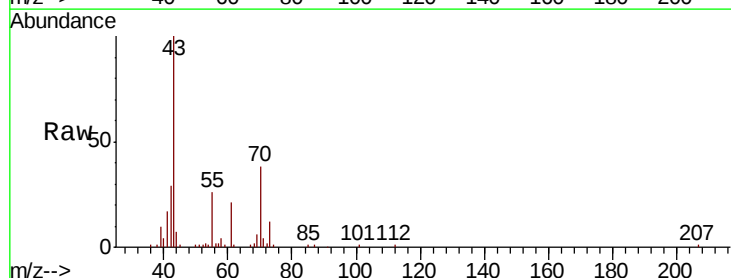
Ion Ratio Lower Upper

43 100

70 36.1 28.5 42.7

55 24.2 18.1 27.1

61 21.4 17.2 25.8

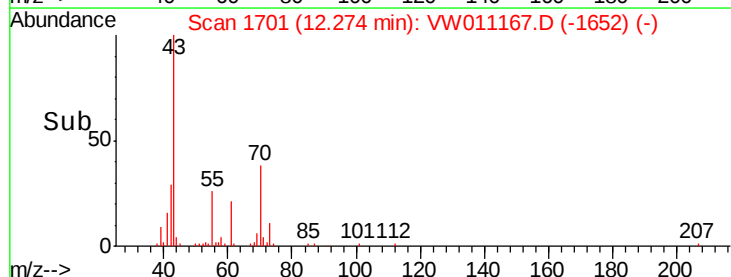
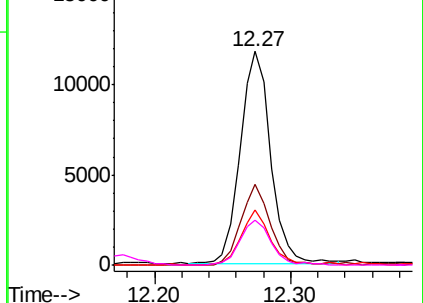


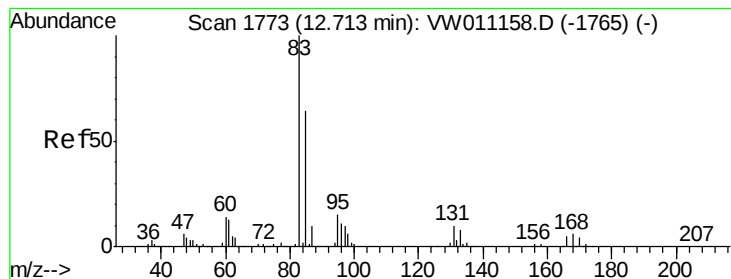
Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV





#75

1,1,2,2-Tetrachloroethane

Concen: 4.811 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT3-2019

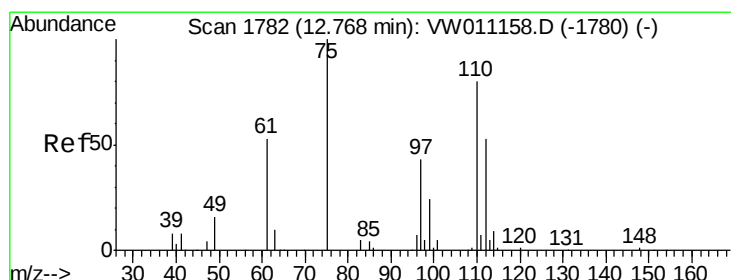
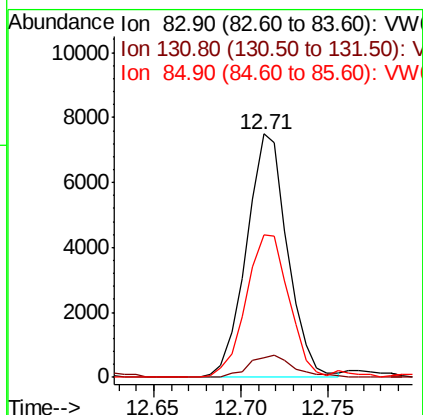
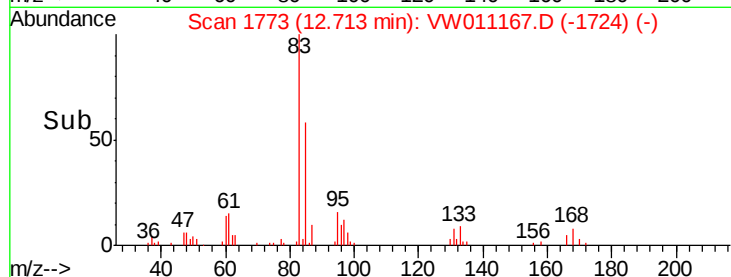
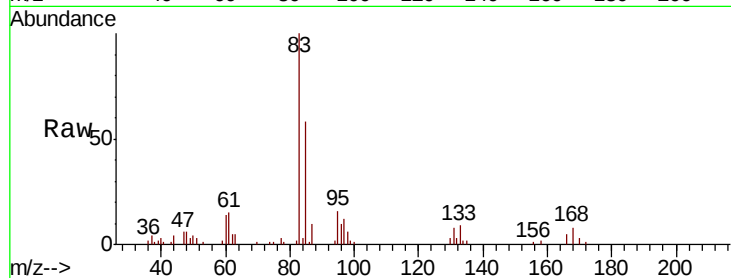
Tot Ion: 83 Resp: 12227

Ion Ratio Lower Upper

83 100

131 9.8 5.0 15.0

85 61.2 31.6 94.8



#76

1,2,3-Trichloropropane

Concen: 7.987 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW011167.D

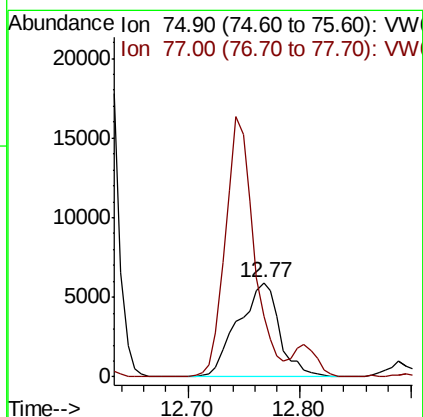
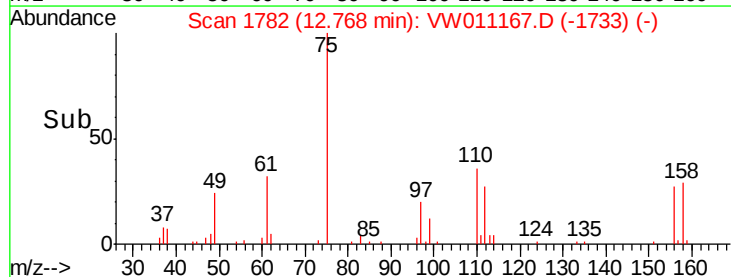
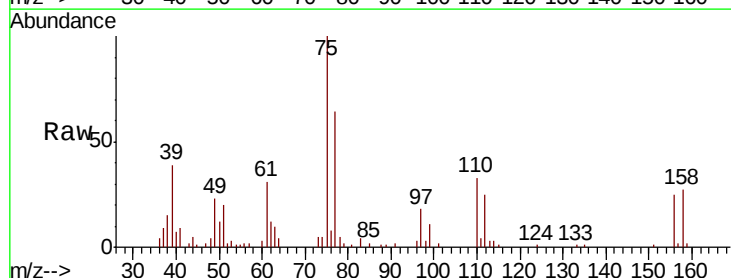
Acq: 08 Jul 2019 18:07

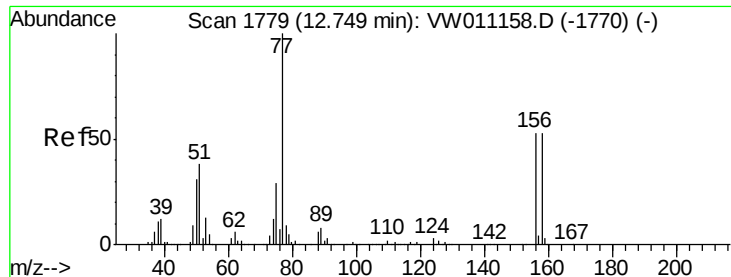
Tgt Ion: 75 Resp: 15308

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 4.853 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT3-2019

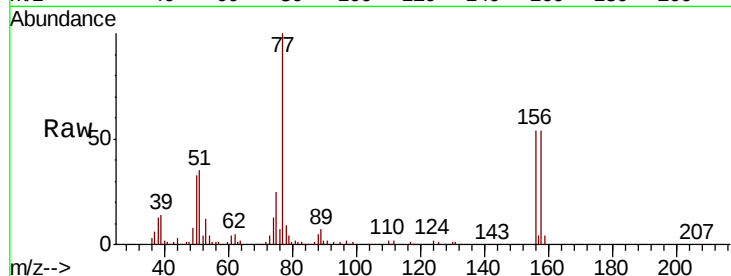
Tot Ion:156 Resp: 13502

Ion Ratio Lower Upper

156 100

77 217.4 109.0 327.0

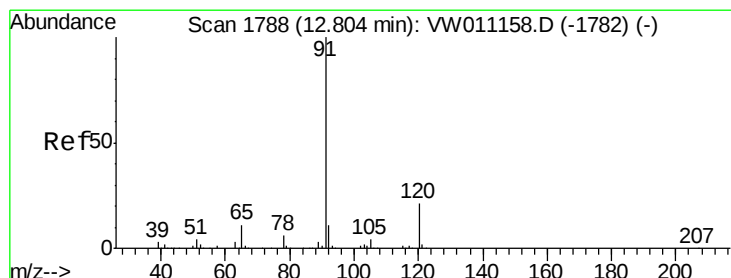
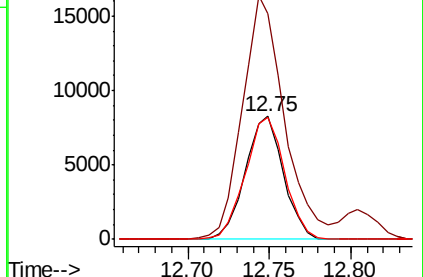
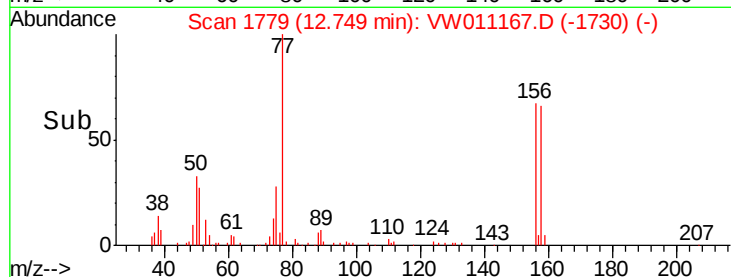
158 102.3 48.8 146.3



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 4.804 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. 0.00 min

Lab File: VW011167.D

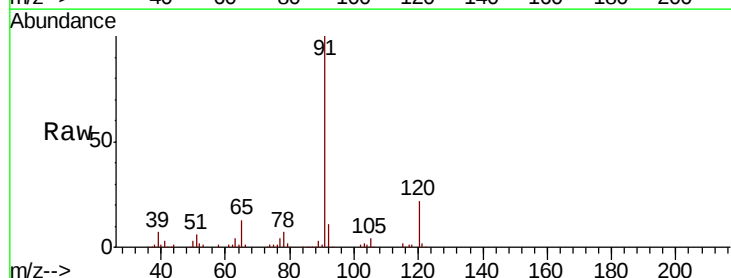
Acq: 08 Jul 2019 18:07

Tgt Ion: 91 Resp: 73365

Ion Ratio Lower Upper

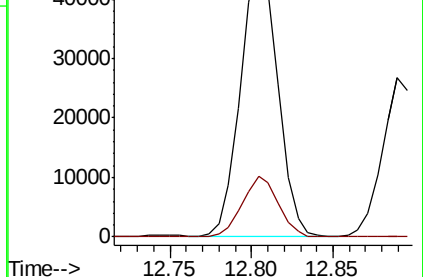
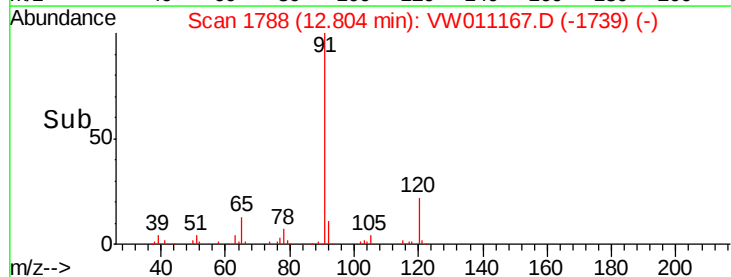
91 100

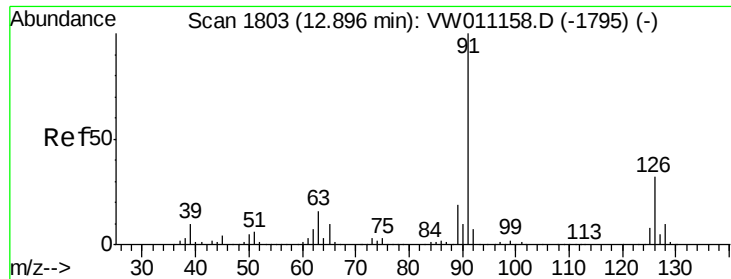
120 21.4 10.8 32.3



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V

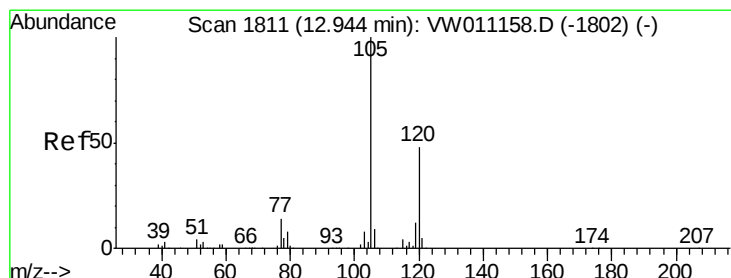
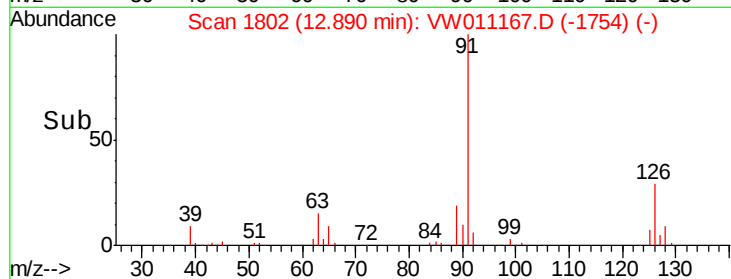
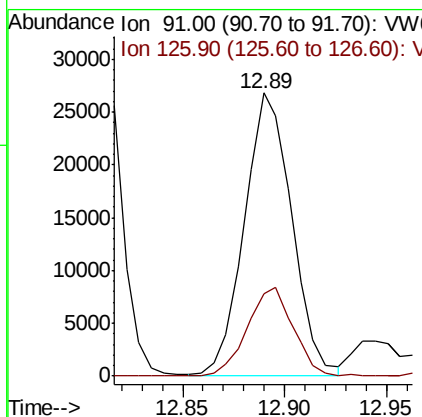
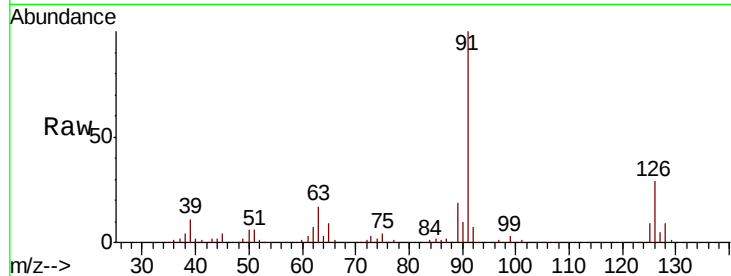




#79
 2-Chlorotoluene
 Concen: 4.906 ug/l
 RT: 12.89 min Scan# 1802
 Delta R.T. -0.01 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

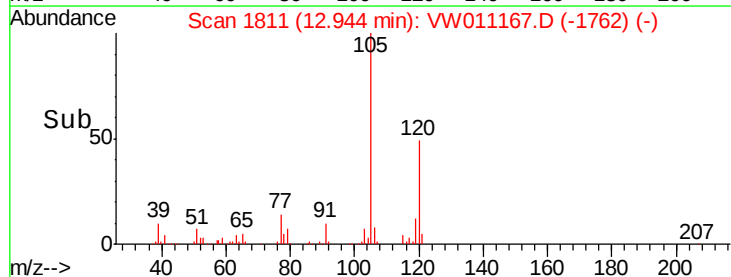
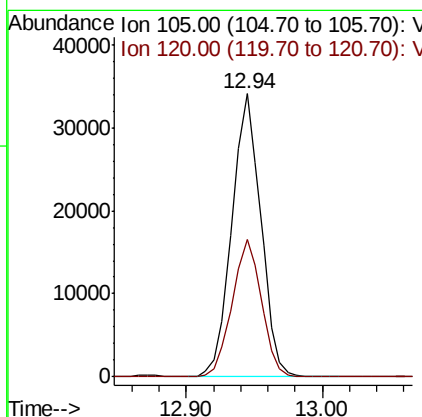
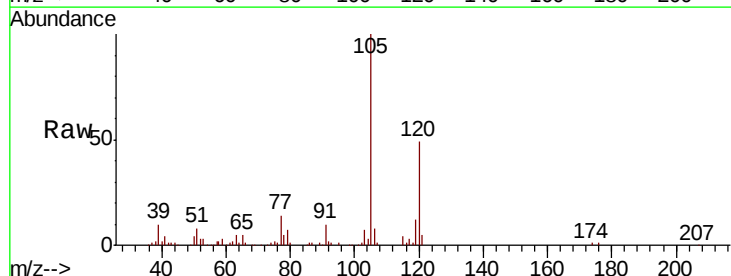
Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT3-2019

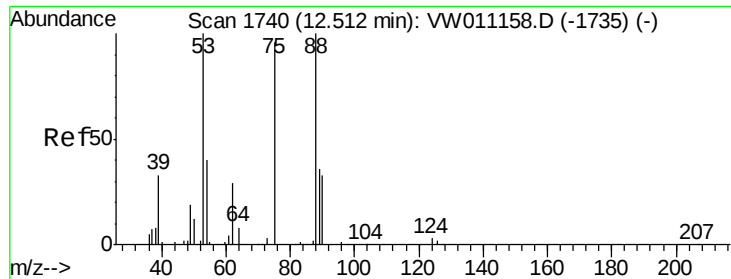
Tot Ion: 91 Resp: 43114
 Ion Ratio Lower Upper
 91 100
 126 30.7 15.8 47.3



#80
 1,3,5-Trimethylbenzene
 Concen: 4.800 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. 0.00 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

Tgt Ion:105 Resp: 50561
 Ion Ratio Lower Upper
 105 100
 120 49.1 24.1 72.2





#81

trans-1,4-Dichloro-2-butene

Concen: 3.822 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT3-2019

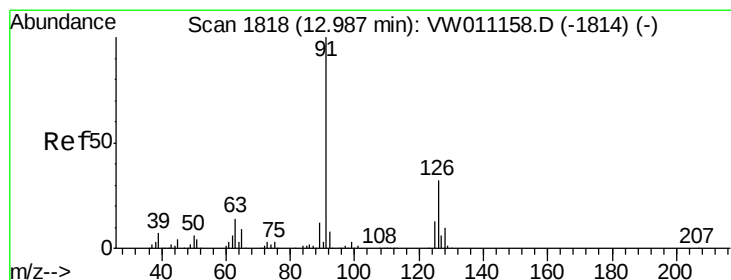
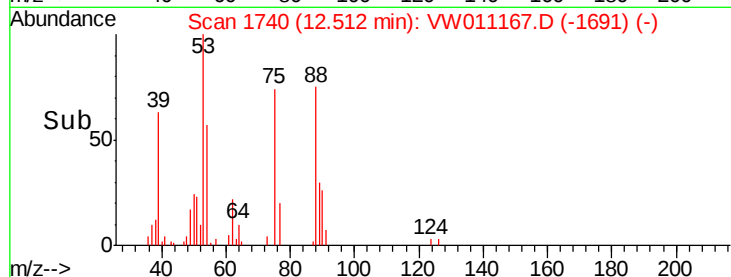
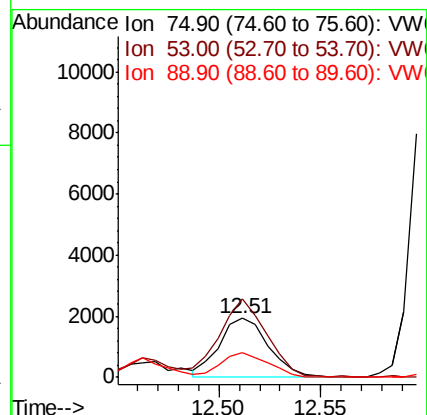
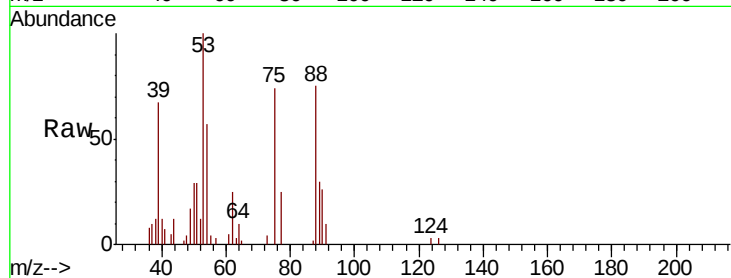
Tot Ion: 75 Resp: 3239

Ion Ratio Lower Upper

75 100

53 129.2 89.8 134.6

89 40.0 34.3 51.5



#82

4-Chlorotoluene

Concen: 4.955 ug/l

RT: 12.99 min Scan# 1818

Delta R.T. 0.00 min

Lab File: VW011167.D

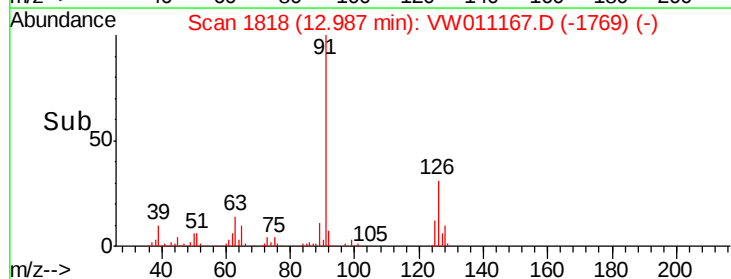
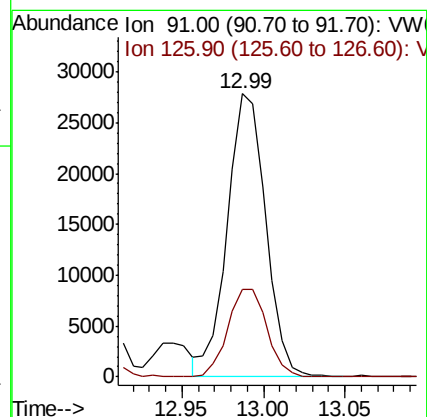
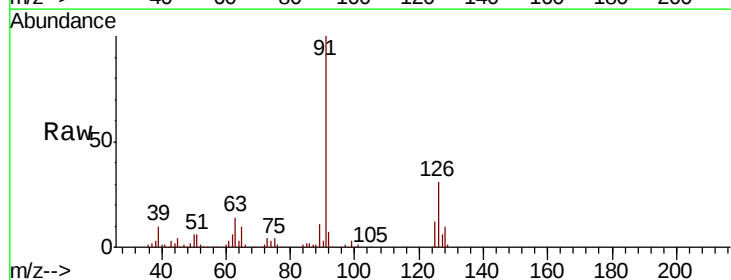
Acq: 08 Jul 2019 18:07

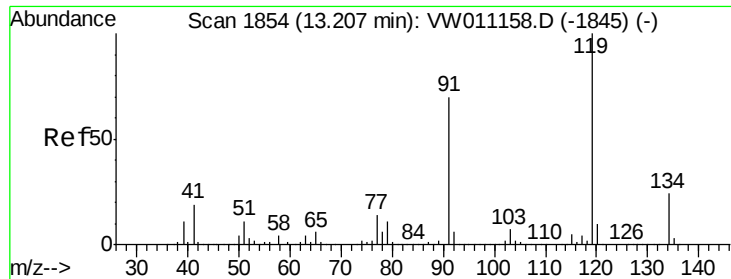
Tgt Ion: 91 Resp: 45355

Ion Ratio Lower Upper

91 100

126 32.0 15.7 47.1

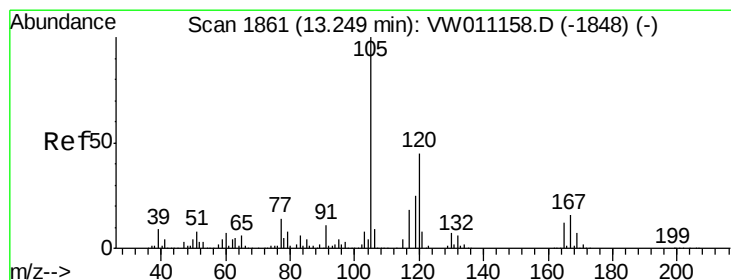
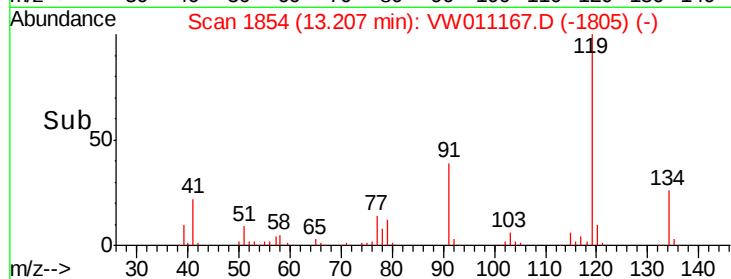
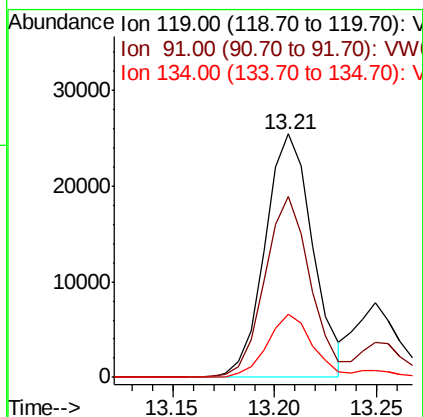
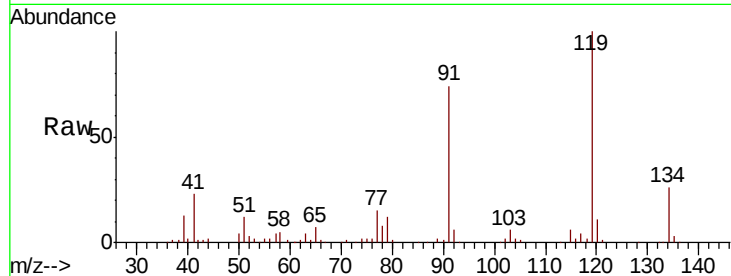




#83
tert-Butylbenzene
Concen: 4.730 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

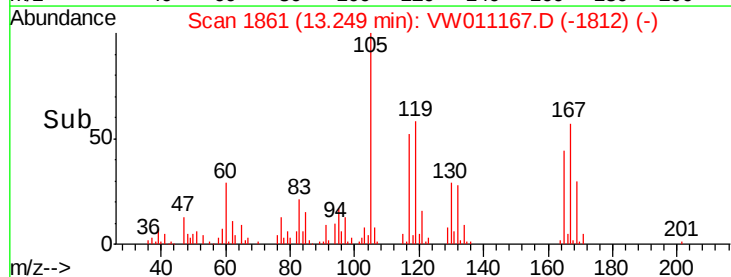
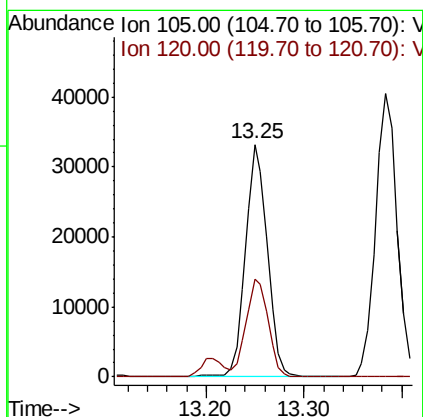
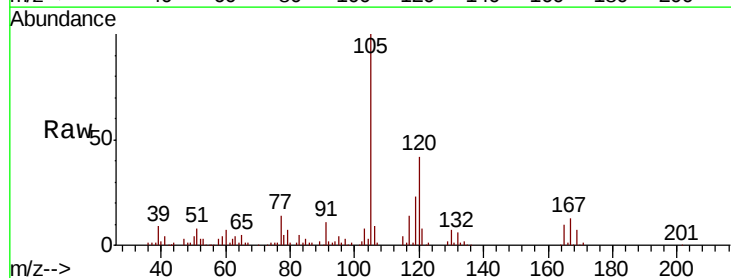
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

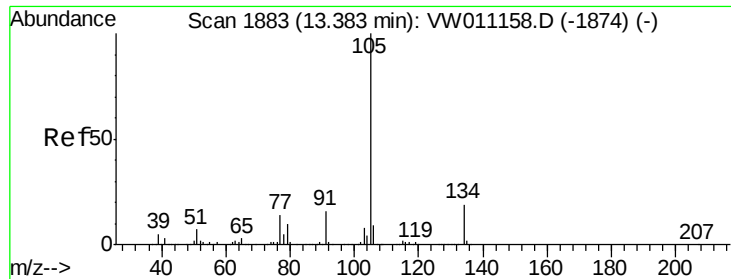
Tot Ion:119 Resp: 41547
Ion Ratio Lower Upper
119 100
91 72.1 35.4 106.3
134 24.8 13.4 40.2



#84
1,2,4-Trimethylbenzene
Concen: 4.870 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion:105 Resp: 51505
Ion Ratio Lower Upper
105 100
120 42.4 22.3 66.9





#85

sec-Butylbenzene

Concen: 4.844 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

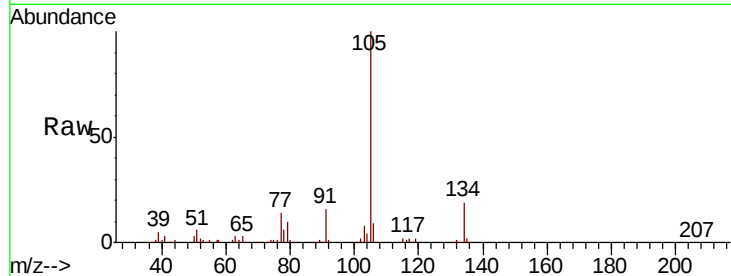
LOQ-SOIL-02-QT3-2019

Tot Ion:105 Resp: 61397

Ion Ratio Lower Upper

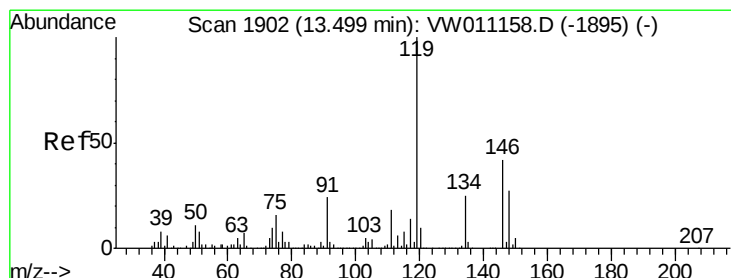
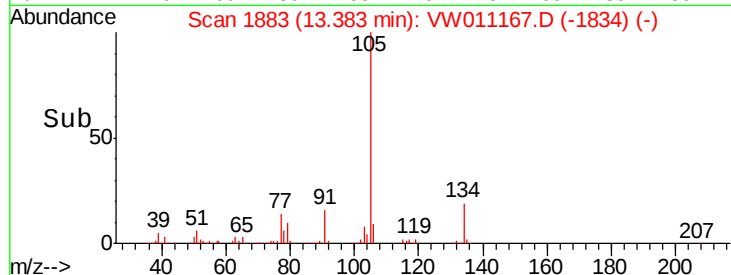
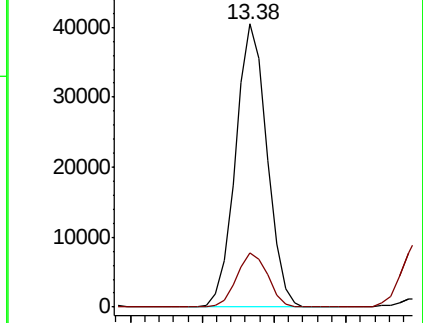
105 100

134 19.1 9.7 28.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 4.764 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

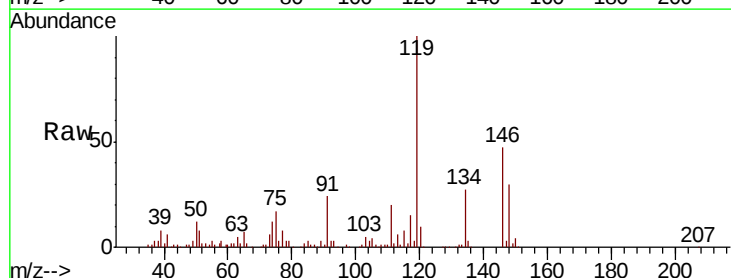
Tgt Ion:119 Resp: 54162

Ion Ratio Lower Upper

119 100

134 26.8 12.9 38.6

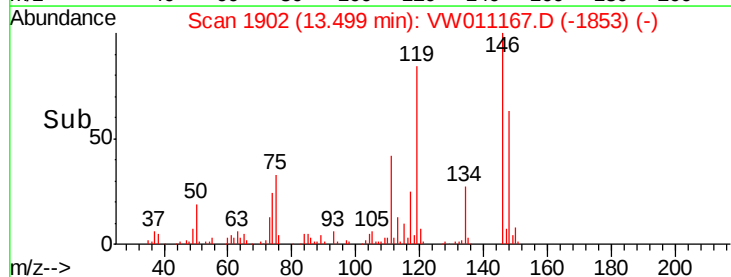
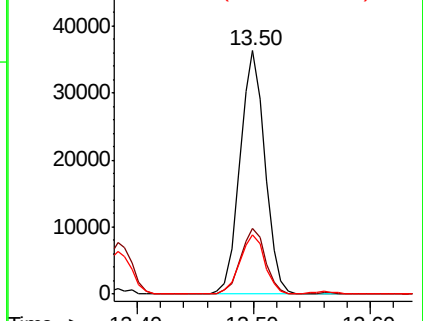
91 24.6 12.3 36.8

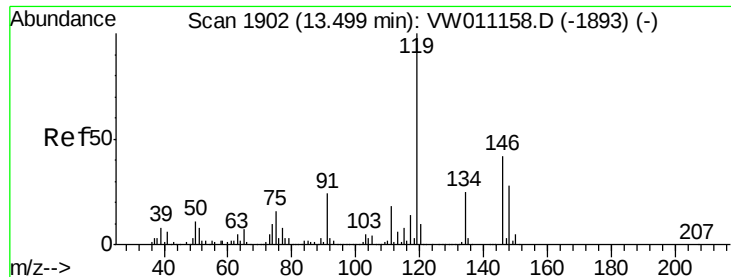


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

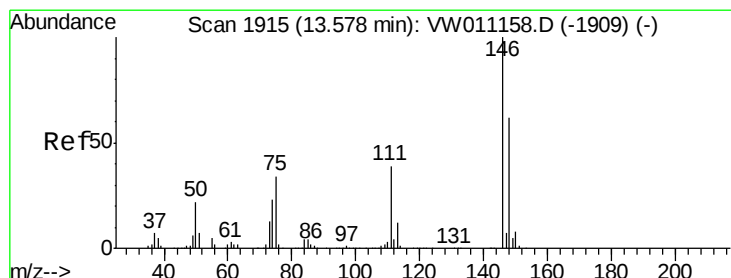
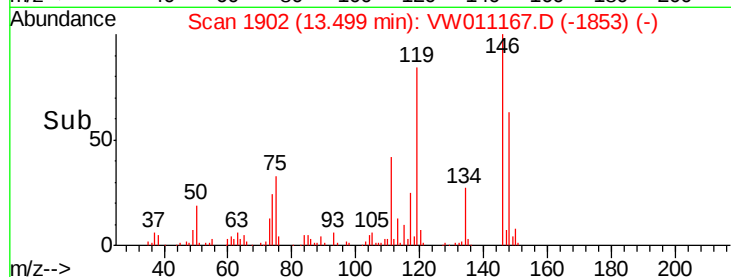
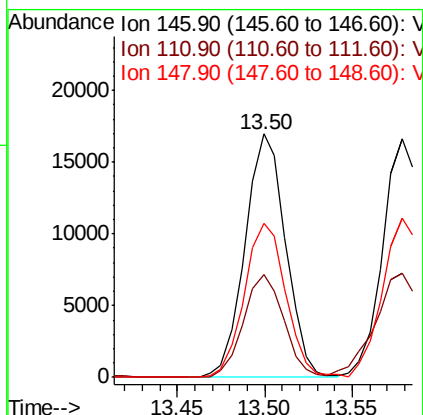
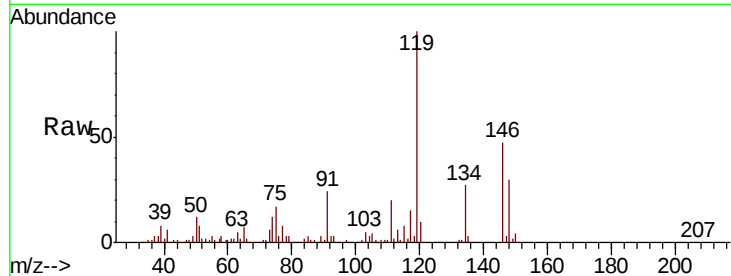




#87
 1,3-Dichlorobenzene
 Concen: 5.112 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

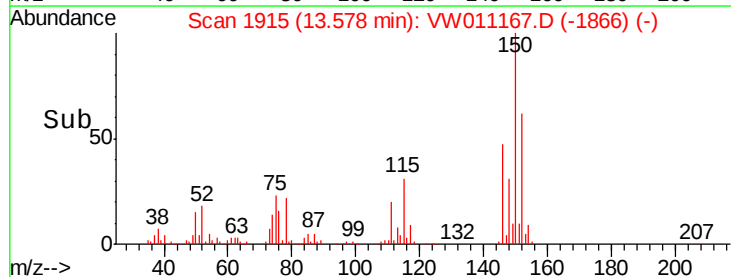
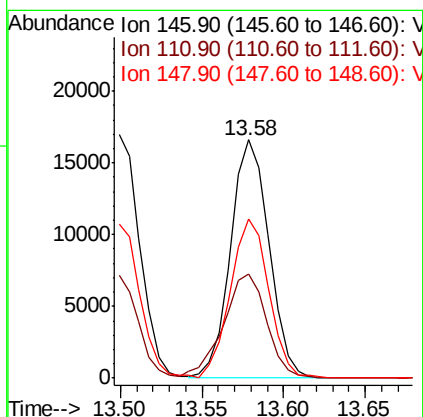
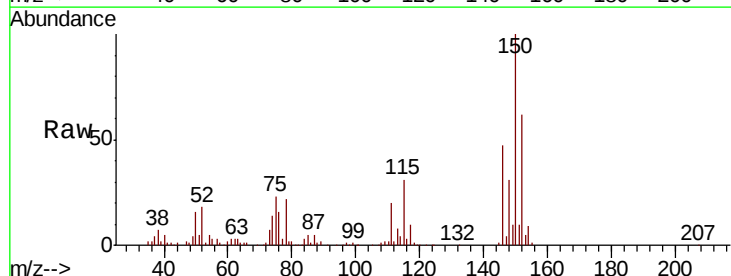
Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT3-2019

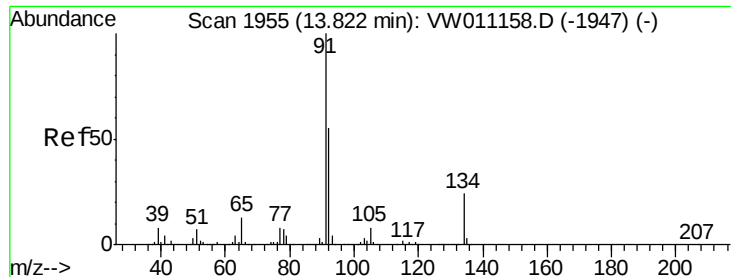
Tot Ion:146 Resp: 27364
 Ion Ratio Lower Upper
 146 100
 111 42.0 21.1 63.1
 148 64.6 32.6 97.7



#88
 1,4-Dichlorobenzene
 Concen: 5.059 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

Tgt Ion:146 Resp: 27272
 Ion Ratio Lower Upper
 146 100
 111 49.3 19.9 59.7
 148 66.9 31.5 94.5





#89

n-Butylbenzene

Concen: 4.813 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VW011167.D

Acq: 08 Jul 2019 18:07

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT3-2019

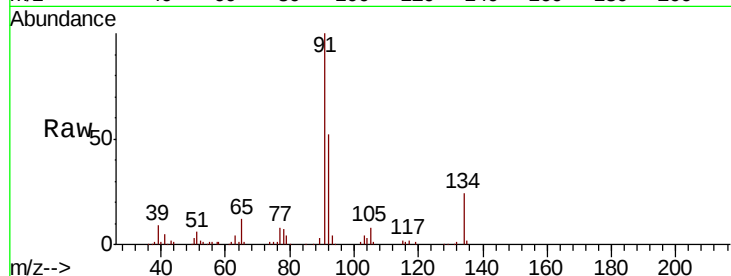
Tot Ion: 91 Resp: 54587

Ion Ratio Lower Upper

91 100

92 52.7 26.9 80.7

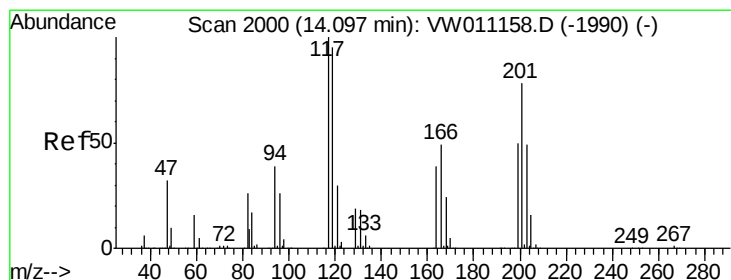
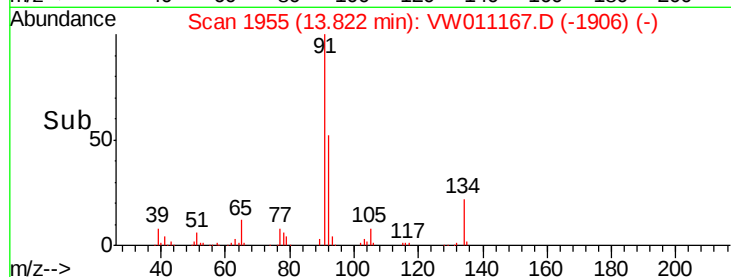
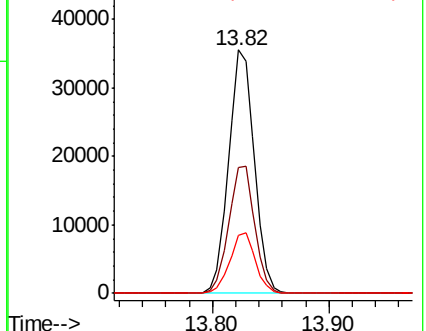
134 24.7 12.2 36.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 4.433 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. 0.00 min

Lab File: VW011167.D

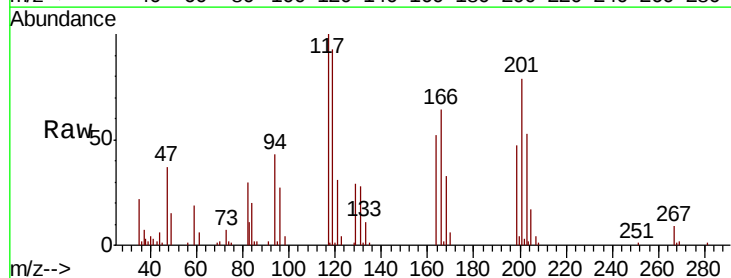
Acq: 08 Jul 2019 18:07

Tgt Ion: 117 Resp: 9210

Ion Ratio Lower Upper

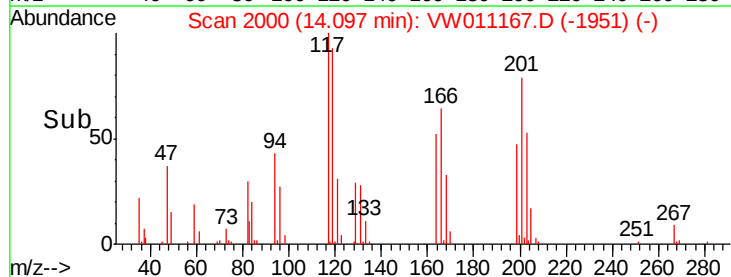
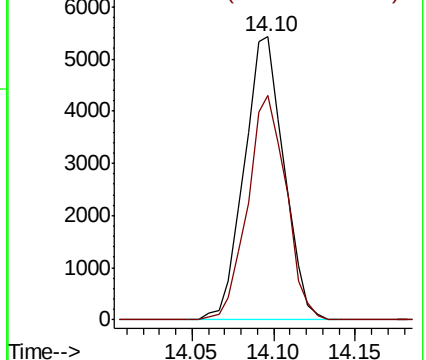
117 100

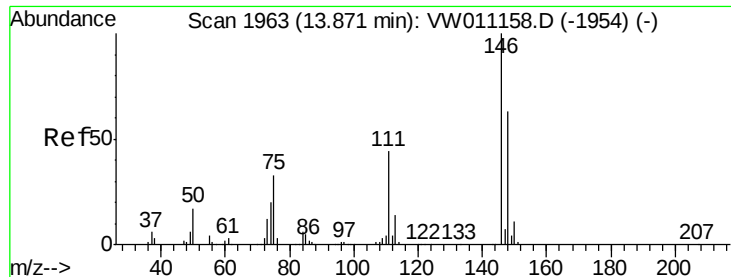
201 76.8 38.3 114.8



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

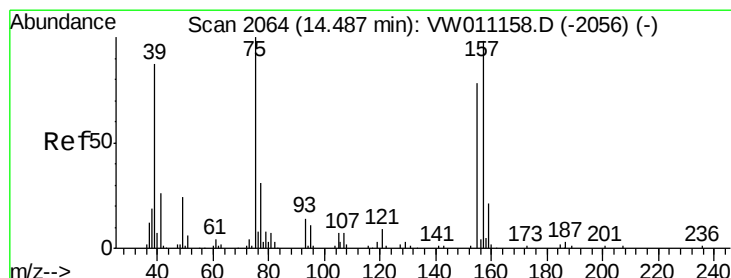
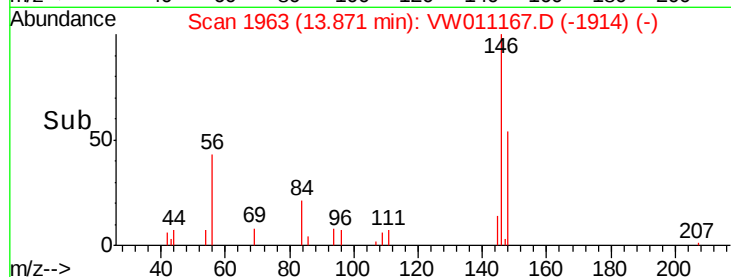
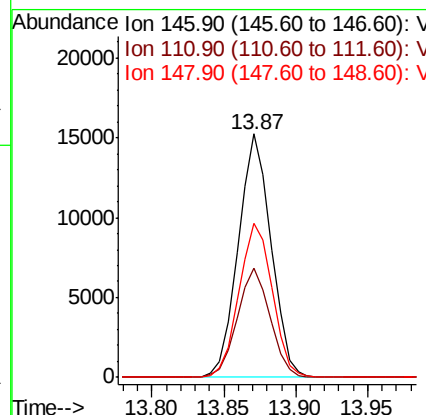
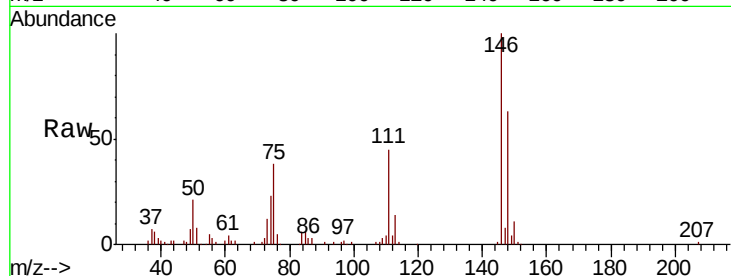




#91
 1,2-Dichlorobenzene
 Concen: 4.974 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. 0.00 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

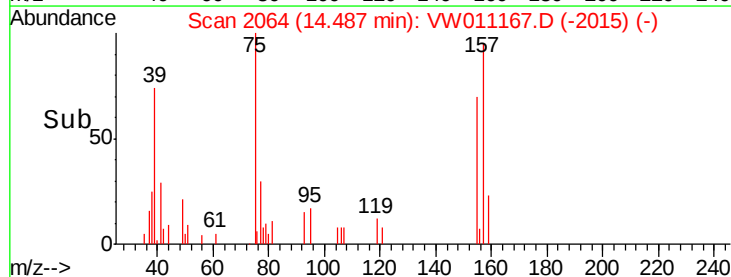
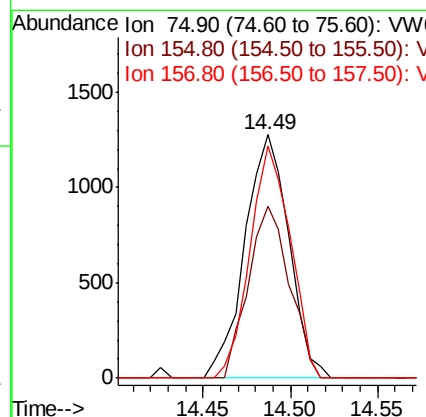
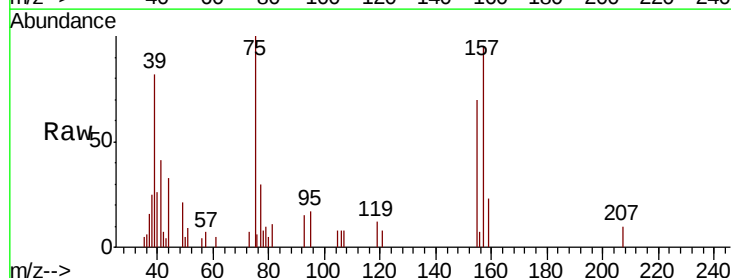
Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT3-2019

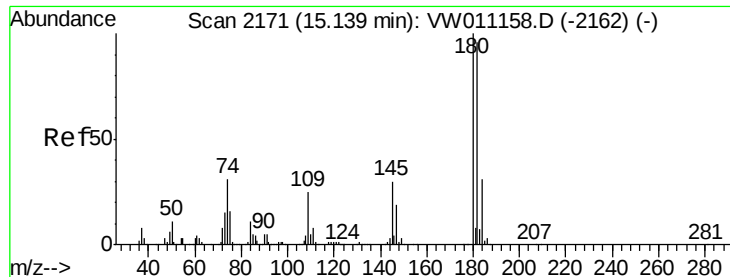
Tot Ion	Ratio	Lower	Upper
146	100		
111	44.7	21.6	65.0
148	64.2	31.9	95.5



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.956 ug/l
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

Tgt Ion	Ratio	Lower	Upper
75	100		
155	66.0	37.1	111.3
157	87.4	48.5	145.6

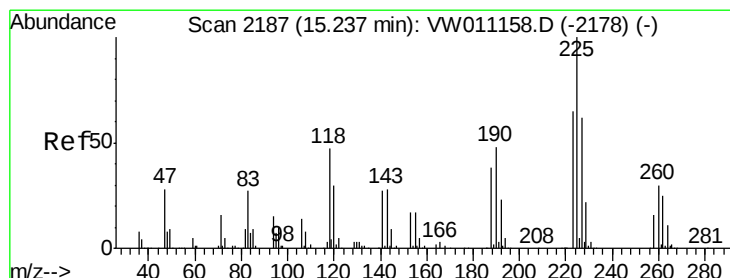
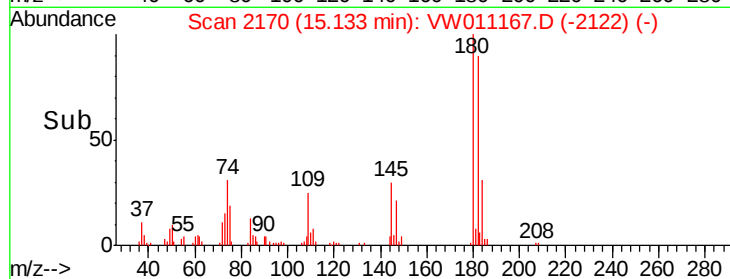
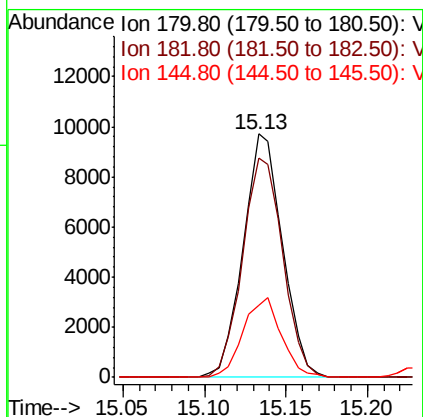
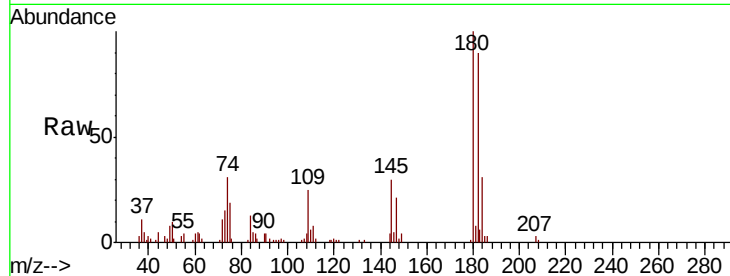




#93
 1,2,4-Trichlorobenzene
 Concen: 4.861 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.01 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

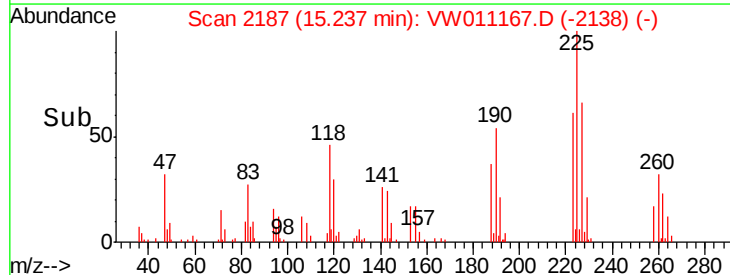
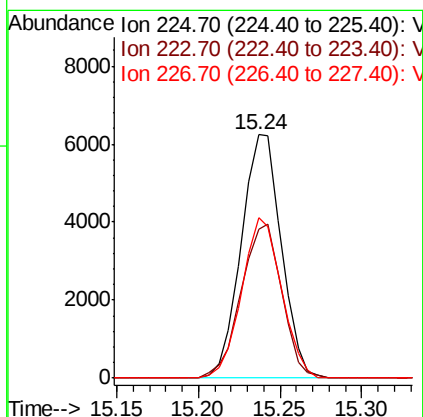
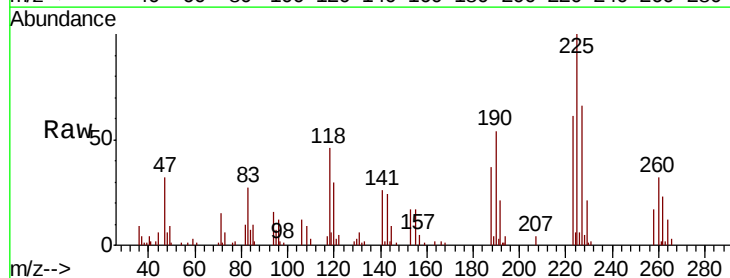
Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT3-2019

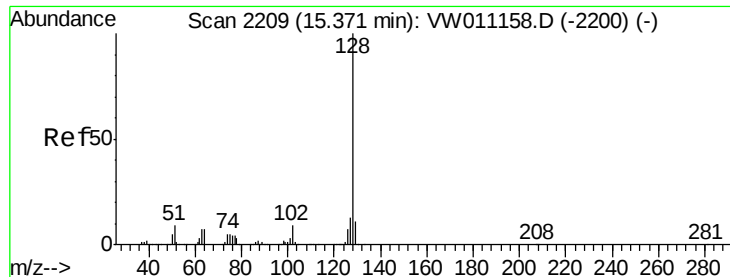
Tot Ion	Ratio	Lower	Upper
180	100		
182	92.8	48.3	144.9
145	31.9	15.5	46.5



#94
 Hexachlorobutadiene
 Concen: 5.192 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. 0.00 min
 Lab File: VW011167.D
 Acq: 08 Jul 2019 18:07

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.2	31.6	95.0
227	65.8	32.0	96.0

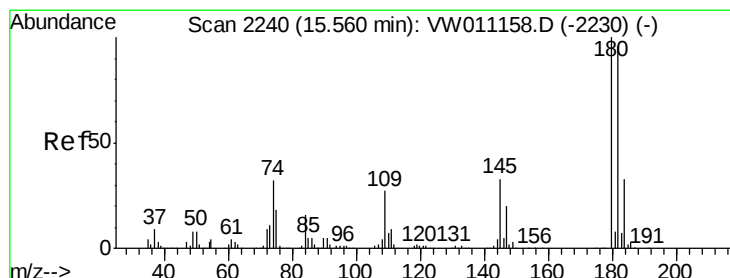
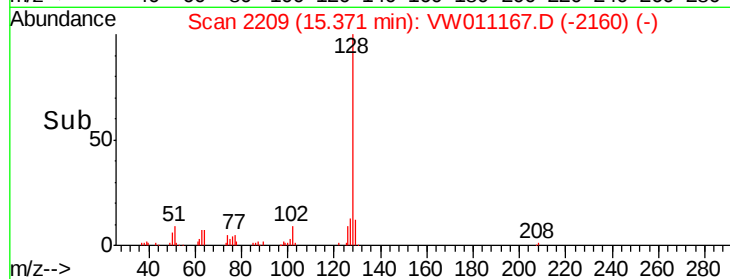
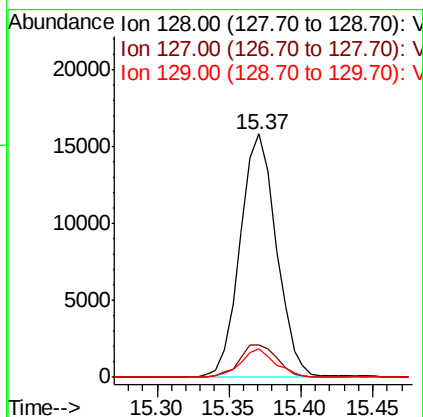
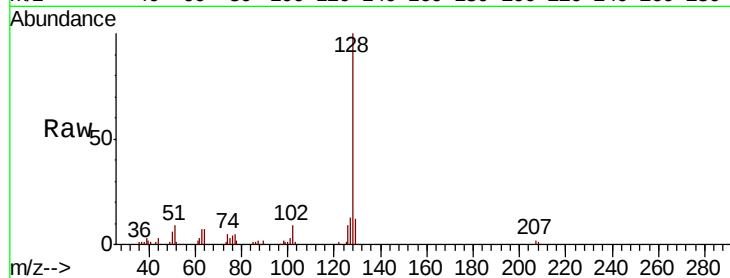




#95
Naphthalene
Concen: 4.330 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT3-2019

Tot Ion:128 Resp: 27753
Ion Ratio Lower Upper
128 100
127 14.1 10.6 16.0
129 11.1 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 4.810 ug/l
RT: 15.56 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VW011167.D
Acq: 08 Jul 2019 18:07

Tgt Ion:180 Resp: 14201
Ion Ratio Lower Upper
180 100
182 97.2 47.6 142.8
145 33.5 16.5 49.5

