

Data File : VW005899.D
Acq On : 08 Oct 2018 16:51
Operator : SY/AP
Sample : J5164-02LOQ
Misc : 5.00G/5ML/MSVOA_W/SOIL
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2018

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	302572	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	436814	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	393273	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	218308	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	141830	48.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.58%	
35) Dibromofluoromethane	7.88	113	139840	50.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.28%	
50) Toluene-d8	10.33	98	543739	50.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.34%	
62) 4-Bromofluorobenzene	12.62	95	201272	49.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.60%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	2.01	85	12364	8.339	ug/l	91
3) Chloromethane	2.21	50	17491	10.029	ug/l	99
4) Vinyl Chloride	2.37	62	27697	10.003	ug/l	99
5) Bromomethane	2.79	94	22442	10.270	ug/l	95
6) Chloroethane	2.93	64	18109	10.265	ug/l	92
7) Trichlorofluoromethane	3.26	101	21951	9.987	ug/l	96
8) Diethyl Ether	3.68	74	13433	9.931	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	4.06	101	26836	9.675	ug/l	98
10) Methyl Iodide	4.27	142	42014	9.262	ug/l	100
11) Tert butyl alcohol	5.23	59	10023	46.560	ug/l #	92
12) 1,1-Dichloroethene	4.04	96	24560	9.221	ug/l	95
13) Acrolein	3.90	56	9206	47.989	ug/l	91
14) Allyl chloride	4.67	41	40020	8.811	ug/l	100
15) Acrylonitrile	5.38	53	28489	48.395	ug/l	99
16) Acetone	4.14	43	32067	54.656	ug/l	100
17) Carbon Disulfide	4.37	76	69528	8.634	ug/l	100
18) Methyl Acetate	4.68	43	13965	9.432	ug/l	99
19) Methyl tert-butyl Ether	5.43	73	40628	9.804	ug/l	97
20) Methylene Chloride	4.92	84	32555	11.075	ug/l	98
21) trans-1,2-Dichloroethene	5.42	96	27519	9.479	ug/l	93
22) Diisopropyl ether	6.31	45	77963	9.182	ug/l	95
23) Vinyl Acetate	6.26	43	245676	47.009	ug/l	99
24) 1,1-Dichloroethane	6.21	63	48175	9.271	ug/l	97
25) 2-Butanone	7.18	43	42383	50.789	ug/l	97
26) 2,2-Dichloropropane	7.16	77	36022	9.850	ug/l	100
27) cis-1,2-Dichloroethene	7.17	96	30921	9.418	ug/l	99
28) Bromochloromethane	7.51	49	18898	9.853	ug/l	98
29) Tetrahydrofuran	7.54	42	25376	48.105	ug/l	96
30) Chloroform	7.68	83	50679	9.495	ug/l	99
31) Cyclohexane	7.95	56	49659	9.657	ug/l #	90
32) 1,1,1-Trichloroethane	7.87	97	45112	9.491	ug/l	97
36) 1,1-Dichloropropene	8.09	75	39173	9.359	ug/l	98
37) Ethyl Acetate	7.26	43	15321	8.644	ug/l #	90
38) Carbon Tetrachloride	8.07	117	43524	9.679	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	52735	9.552	ug/l	99
40) Benzene	8.32	78	110444	9.641	ug/l	99
41) Methacrylonitrile	7.49	41	11110	10.012	ug/l	98
42) 1,2-Dichloroethane	8.40	62	32768	9.468	ug/l	98
43) Isopropyl Acetate	8.43	43	35817	9.674	ug/l	100
44) Trichloroethene	9.09	130	32266	9.708	ug/l	100
45) 1,2-Dichloropropane	9.37	63	26879	9.374	ug/l	99
46) Dibromomethane	9.46	93	15201	9.645	ug/l	98
47) Bromodichloromethane	9.65	83	37611	9.484	ug/l	96
48) Methyl methacrylate	9.44	41	17104	9.697	ug/l	99
49) 1,4-Dioxane	9.47	88	4705	196.545	ug/l #	93
51) 4-Methyl-2-Pentanone	10.21	43	91029	50.488	ug/l	99
52) Toluene	10.39	92	72477	9.631	ug/l	100
53) t-1,3-Dichloropropene	10.61	75	38845	9.373	ug/l	97
54) cis-1,3-Dichloropropene	10.08	75	43913	9.426	ug/l	95
55) 1,1,2-Trichloroethane	10.79	97	20984	9.613	ug/l	98
56) Ethyl methacrylate	10.65	69	28079	9.544	ug/l	98
57) 1,3-Dichloropropane	10.93	76	35228	9.593	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.93	63	58636	48.982	ug/l	100
59) 2-Hexanone	10.98	43	65238	50.464	ug/l	99
60) Dibromochloromethane	11.13	129	26858	9.535	ug/l	99
61) 1,2-Dibromoethane	11.24	107	21075	9.662	ug/l	98
64) Tetrachloroethene	10.87	164	27963	9.545	ug/l	99
65) Chlorobenzene	11.66	112	81547	9.680	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.73	131	30075	9.740	ug/l	98
67) Ethyl Benzene	11.73	91	143196	9.624	ug/l	100
68) m/p-Xylenes	11.84	106	110995	19.088	ug/l	100
69) o-Xylene	12.17	106	52569	9.443	ug/l	99
70) Styrene	12.18	104	88208	9.550	ug/l	99
71) Bromoform	12.35	173	17328	9.421	ug/l #	99
73) Isopropylbenzene	12.47	105	149658	9.387	ug/l	100
74) N-amyl acetate	12.27	43	35321	9.328	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.72	83	25399	9.719	ug/l	99
76) 1,2,3-Trichloropropane	12.77	75	34351	17.615	ug/l #	100
77) Bromobenzene	12.75	156	36886	9.765	ug/l	97
78) n-propylbenzene	12.81	91	178267	9.505	ug/l	99
79) 2-Chlorotoluene	12.90	91	98946	9.346	ug/l	99
80) 1,3,5-Trimethylbenzene	12.95	105	126726	9.415	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.52	75	8391	9.084	ug/l	97
82) 4-Chlorotoluene	12.99	91	104567	9.387	ug/l	99
83) tert-Butylbenzene	13.21	119	114356	9.552	ug/l	99
84) 1,2,4-Trimethylbenzene	13.26	105	128343	9.453	ug/l	99
85) sec-Butylbenzene	13.39	105	160565	9.555	ug/l	99
86) p-Isopropyltoluene	13.51	119	144570	9.566	ug/l	99
87) 1,3-Dichlorobenzene	13.51	146	73504	9.795	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	73427	9.847	ug/l	98
89) n-Butylbenzene	13.83	91	136072	9.552	ug/l	99
90) Hexachloroethane	14.10	117	25411	8.940	ug/l	96
91) 1,2-Dichlorobenzene	13.88	146	64990	9.755	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	4571	9.386	ug/l	94

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

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Quant Title : SW846 8260
QLast Update : Tue Oct 09 02:14:04 2018
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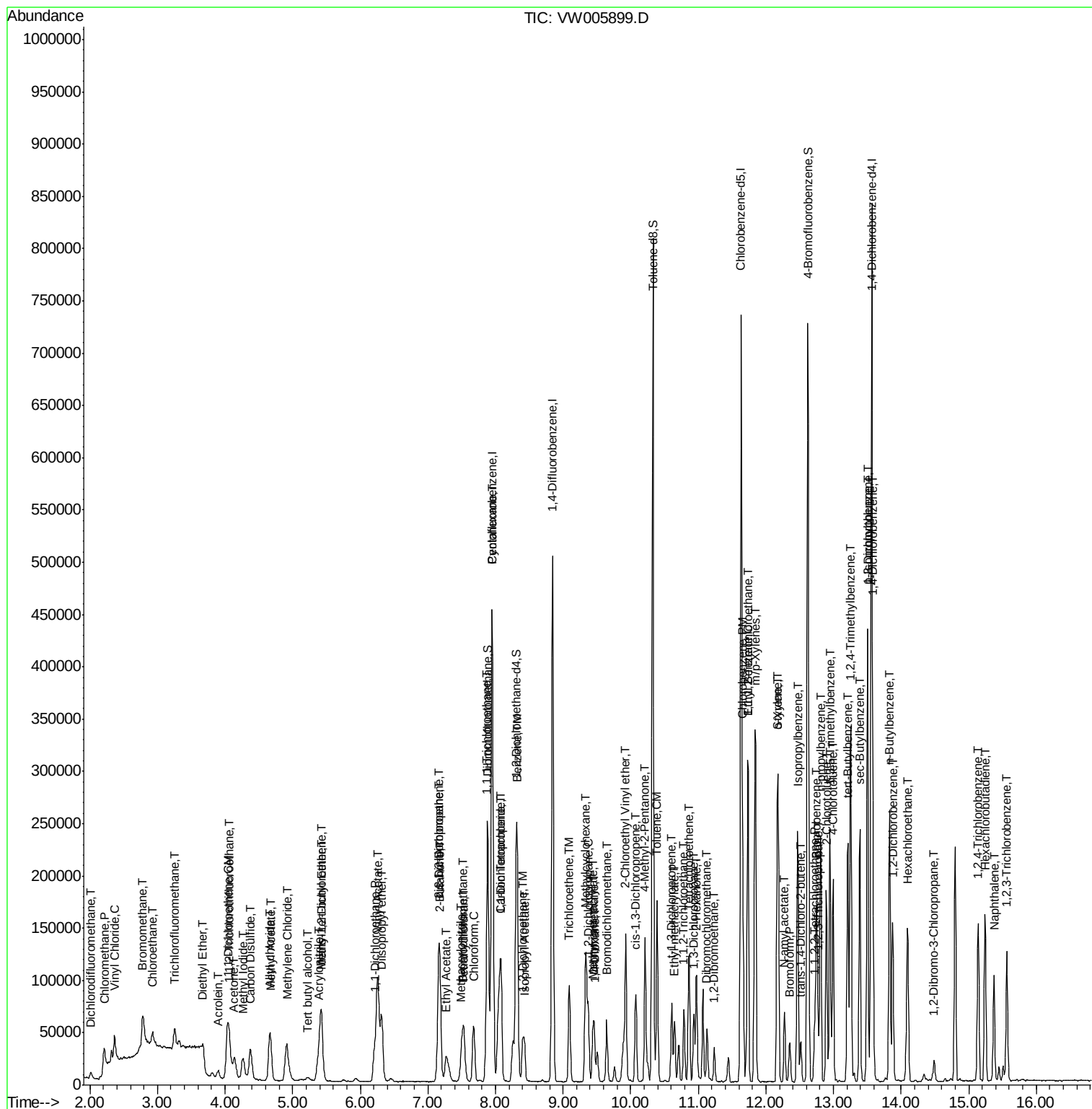
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	51249	9.921	ug/l	99
94) Hexachlorobutadiene	15.24	225	32290	10.014	ug/l	98
95) Naphthalene	15.38	128	89667	10.070	ug/l	100
96) 1,2,3-Trichlorobenzene	15.57	180	44203	9.882	ug/l	99

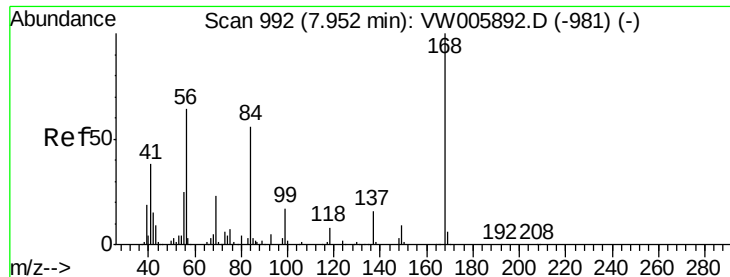
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

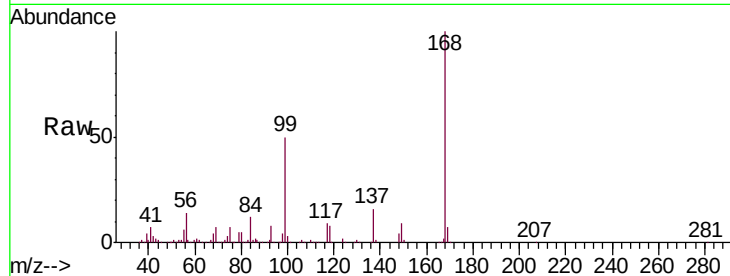
LOQ-SOIL-02-QT4-2018

Tgt Ion:168 Resp: 302572

Ion Ratio Lower Upper

168 100

99 50.3 40.9 61.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

150000

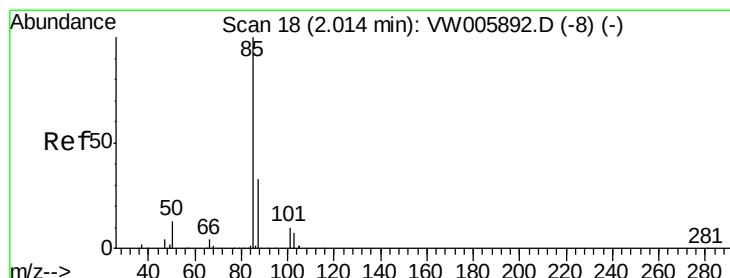
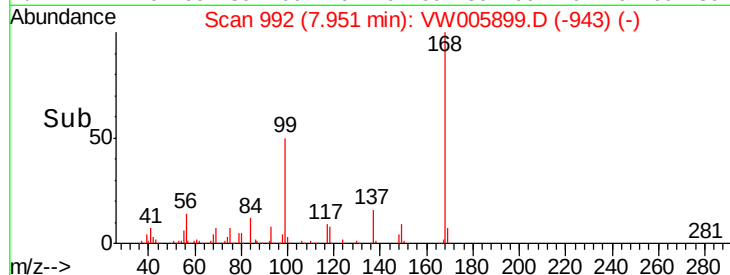
100000

50000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 8.339 ug/l

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW005899.D

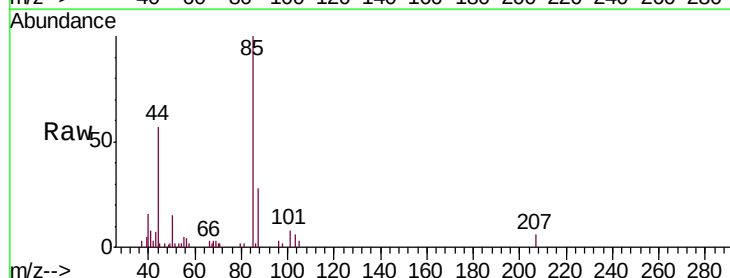
Acq: 08 Oct 2018 16:51

Tgt Ion: 85 Resp: 12364

Ion Ratio Lower Upper

85 100

87 28.2 16.6 49.8



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

4000

3000

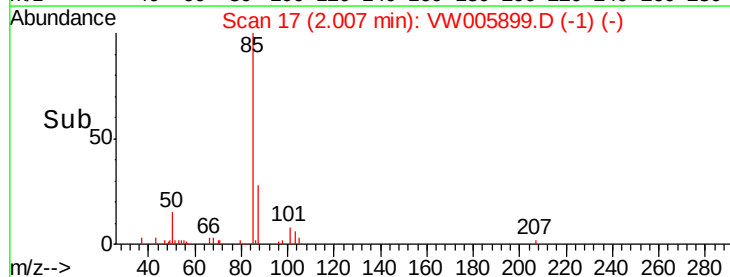
2000

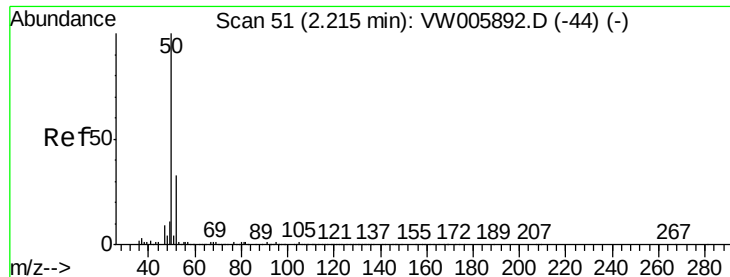
1000

0

1.90 1.95 2.00 2.05 2.10

Time-->

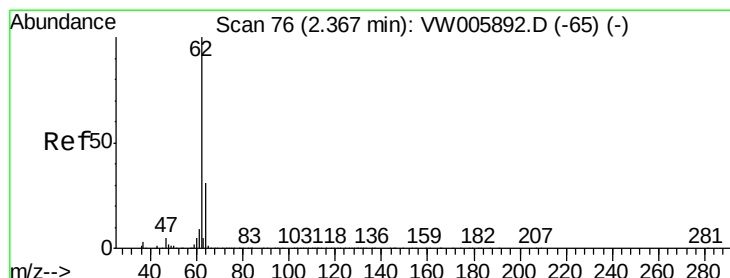
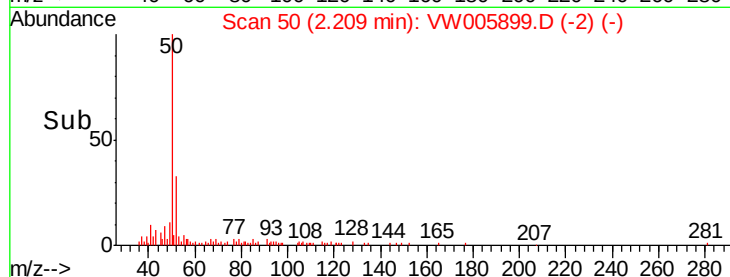
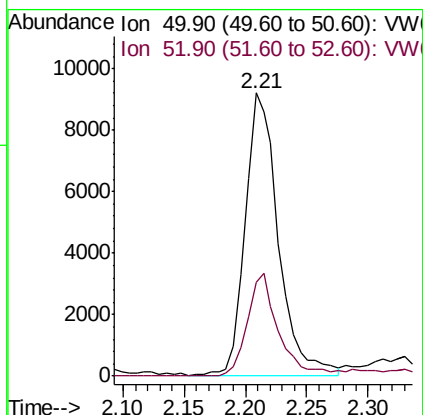
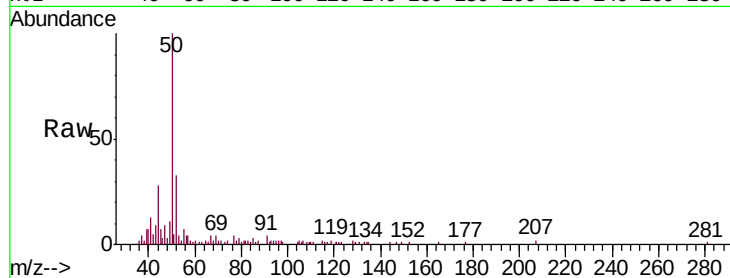




#3
Chloromethane
Concen: 10.029 ug/l
RT: 2.21 min Scan# 50
Delta R.T. -0.01 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

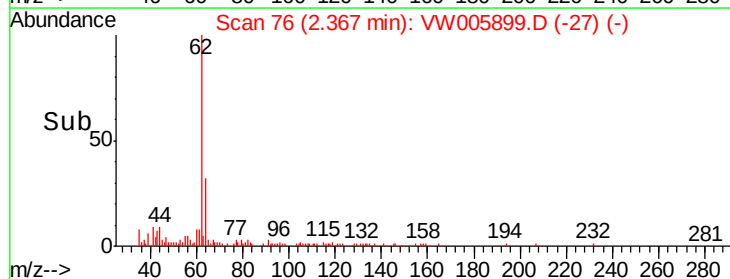
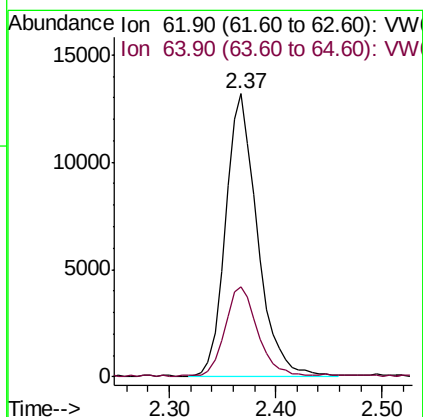
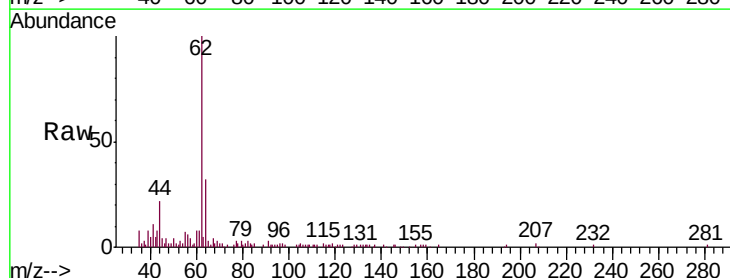
Instrument :
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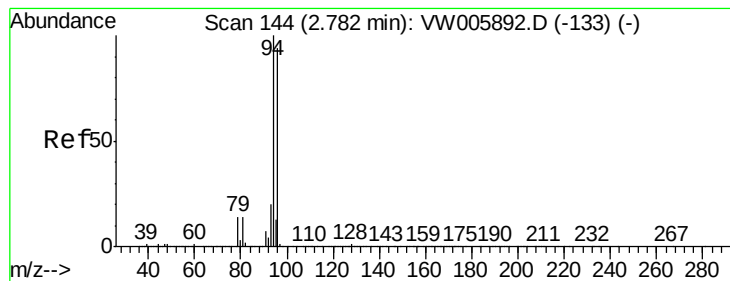
Tgt Ion: 50 Resp: 17491
Ion Ratio Lower Upper
50 100
52 33.1 26.7 40.1



#4
Vinyl Chloride
Concen: 10.003 ug/l
RT: 2.37 min Scan# 76
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Tgt Ion: 62 Resp: 27697
Ion Ratio Lower Upper
62 100
64 31.5 24.6 36.8





#5

Bromomethane

Concen: 10.270 ug/l

RT: 2.79 min Scan# 145

Delta R.T. 0.01 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

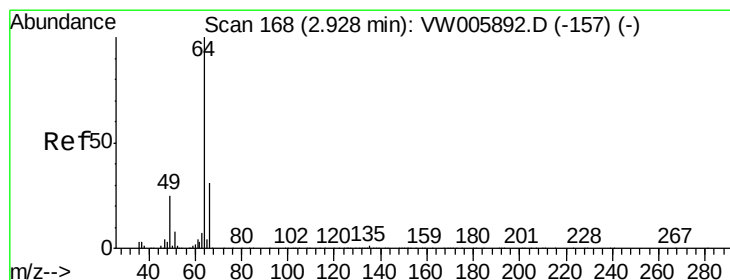
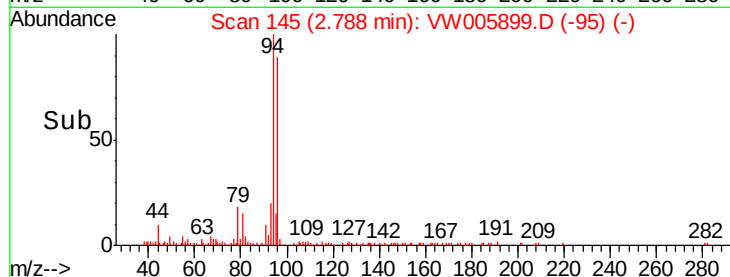
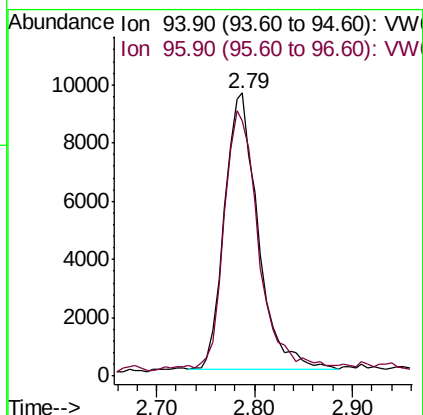
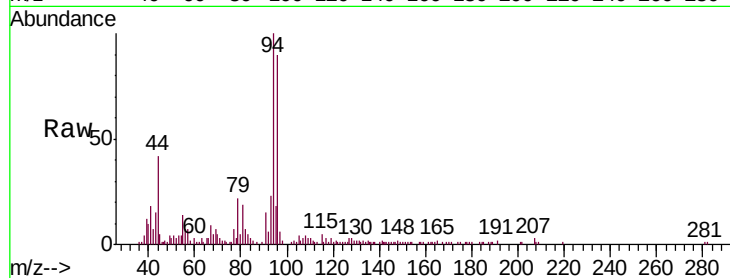
LOQ-SOIL-02-QT4-2018

Tgt Ion: 94 Resp: 22442

Ion Ratio Lower Upper

94 100

96 88.9 75.0 112.4



#6

Chloroethane

Concen: 10.265 ug/l

RT: 2.93 min Scan# 168

Delta R.T. -0.00 min

Lab File: VW005899.D

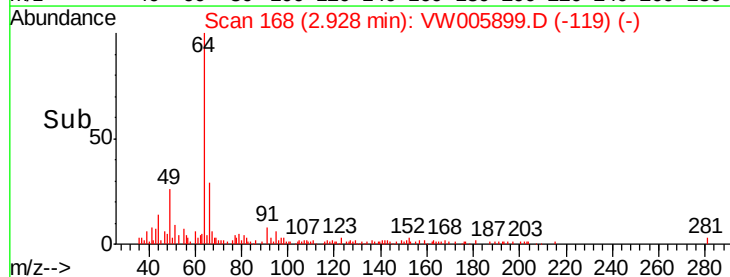
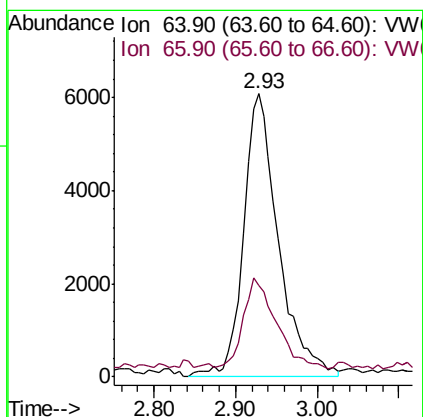
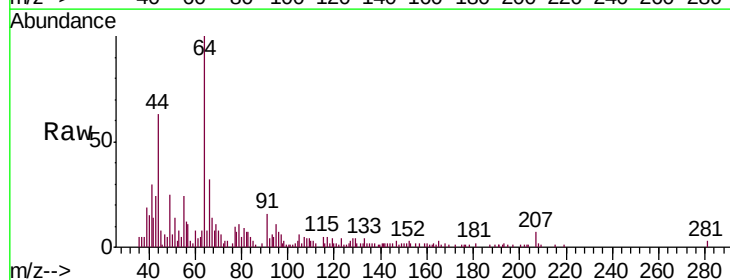
Acq: 08 Oct 2018 16:51

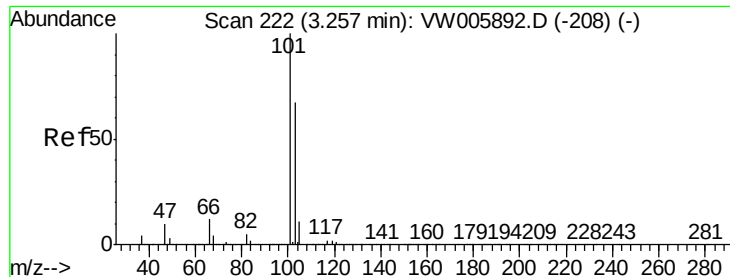
Tgt Ion: 64 Resp: 18109

Ion Ratio Lower Upper

64 100

66 27.0 25.0 37.4



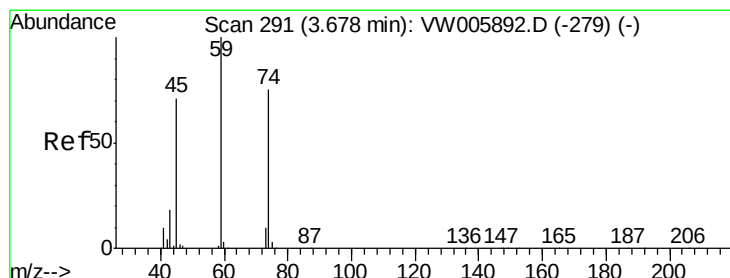
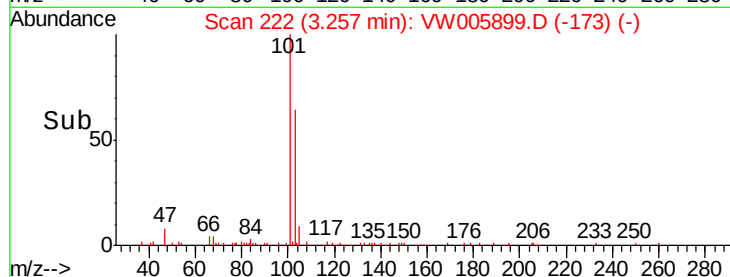
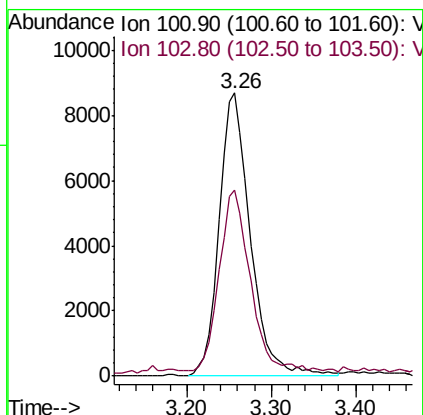
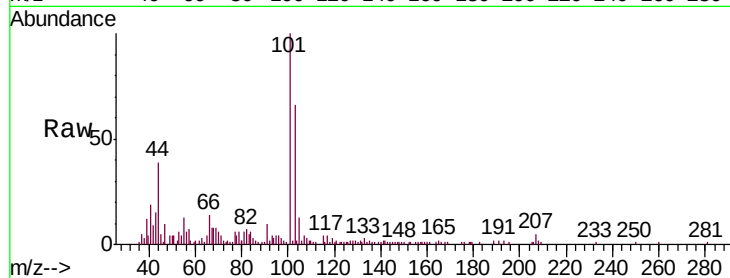


#7

Trichlorofluoromethane
 Concen: 9.987 ug/l
 RT: 3.26 min Scan# 222
 Delta R.T. -0.00 min
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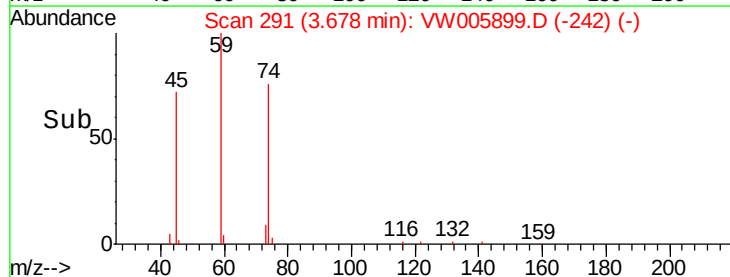
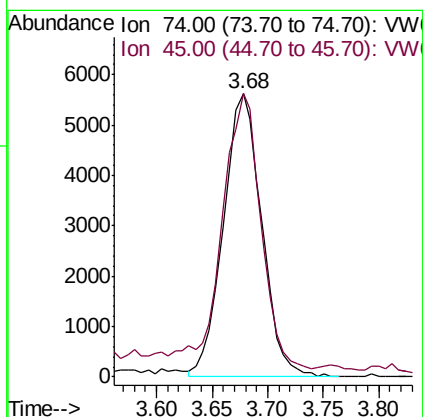
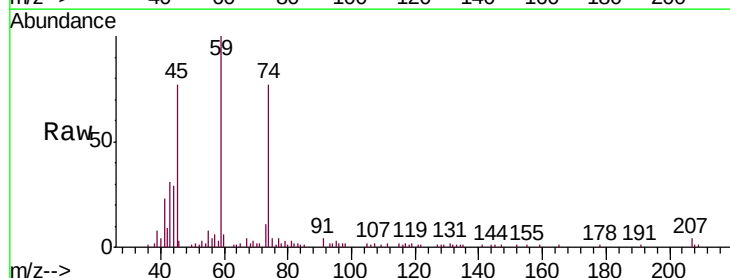
Tgt Ion: 101 Resp: 21951
 Ion Ratio Lower Upper
 101 100
 103 64.1 53.5 80.3

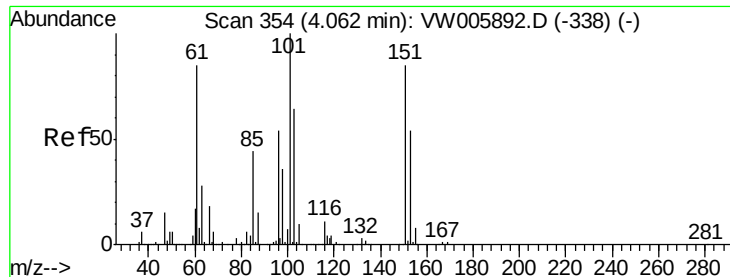


#8

Diethyl Ether
 Concen: 9.931 ug/l
 RT: 3.68 min Scan# 291
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Tgt Ion: 74 Resp: 13433
 Ion Ratio Lower Upper
 74 100
 45 98.6 46.8 140.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 9.675 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2018

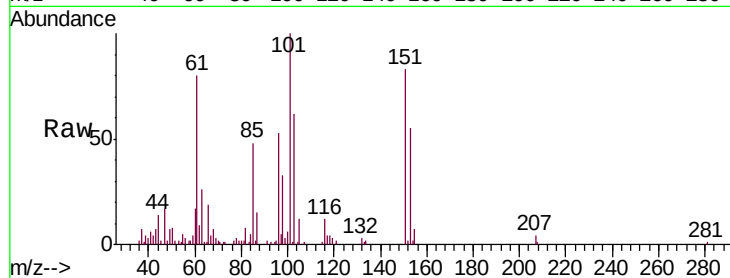
Tgt Ion:101 Resp: 26836

Ion Ratio Lower Upper

101 100

85 42.9 35.1 52.7

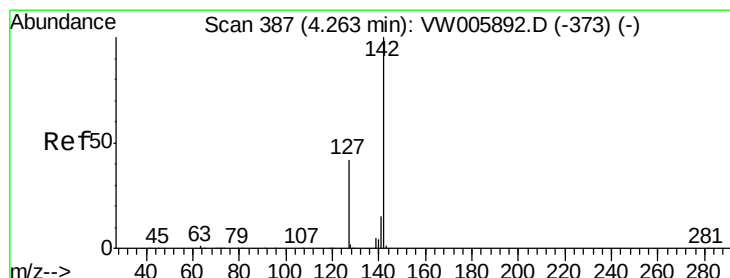
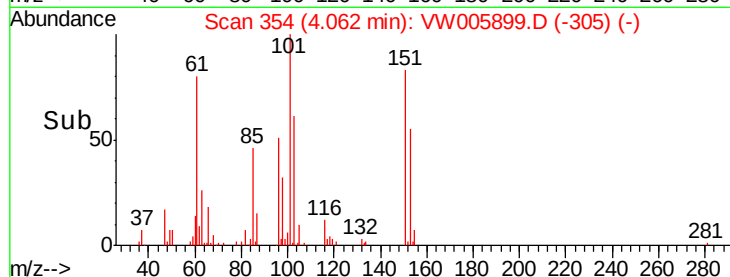
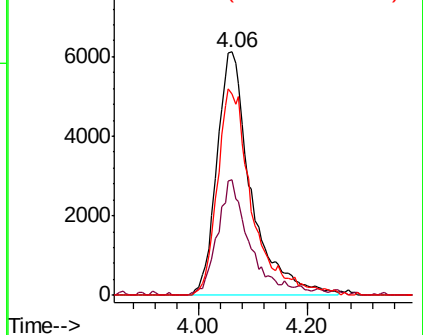
151 86.2 67.7 101.5



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 9.262 ug/l

RT: 4.27 min Scan# 388

Delta R.T. 0.01 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

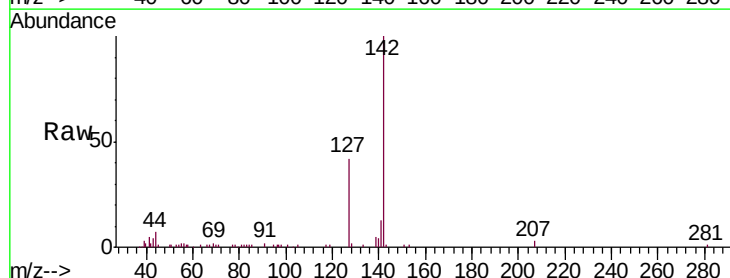
Tgt Ion:142 Resp: 42014

Ion Ratio Lower Upper

142 100

127 42.2 33.7 50.5

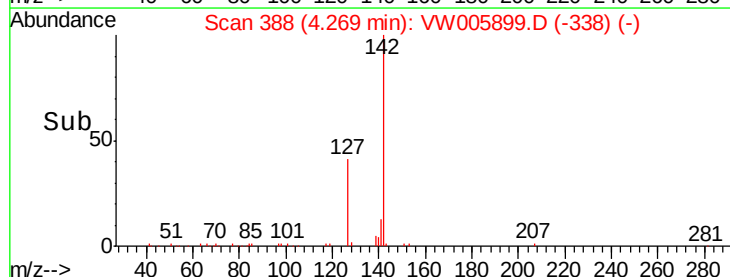
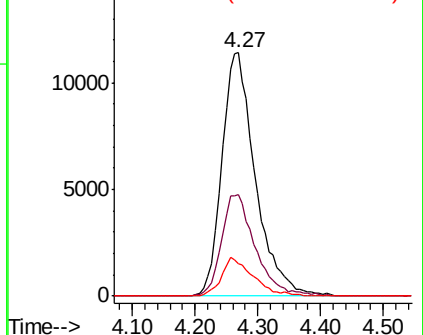
141 14.9 11.5 17.3

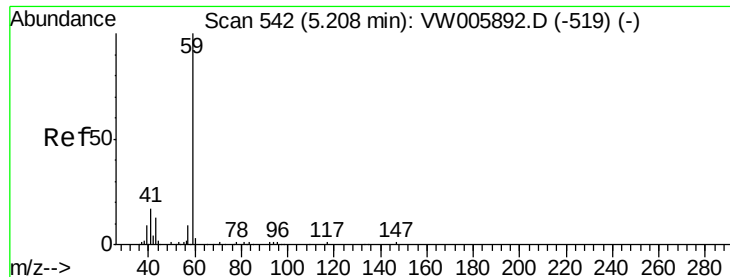


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

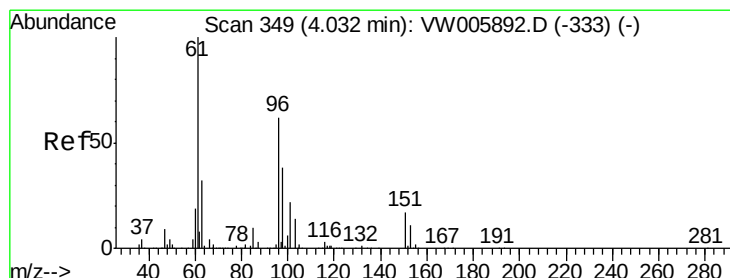
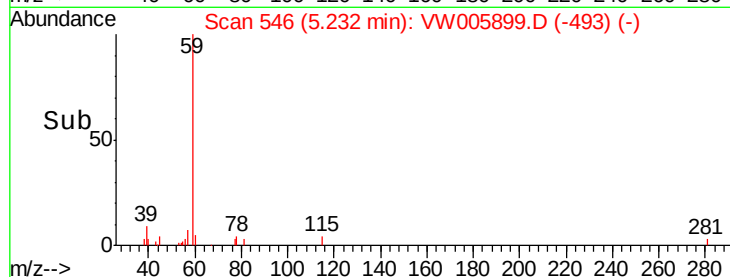
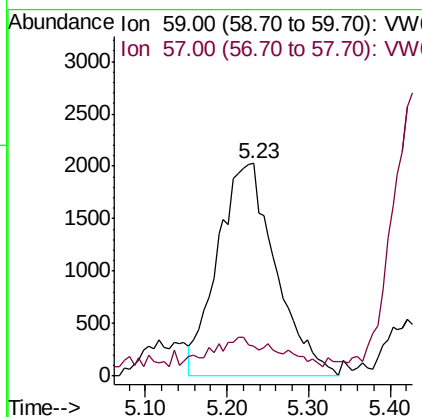
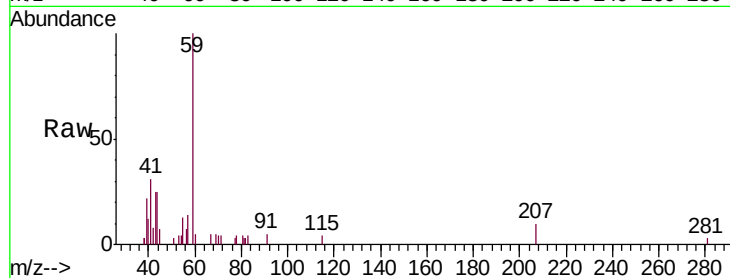




#11
Tert butyl alcohol
Concen: 46.560 ug/l
RT: 5.23 min Scan# 546
Delta R.T. 0.02 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

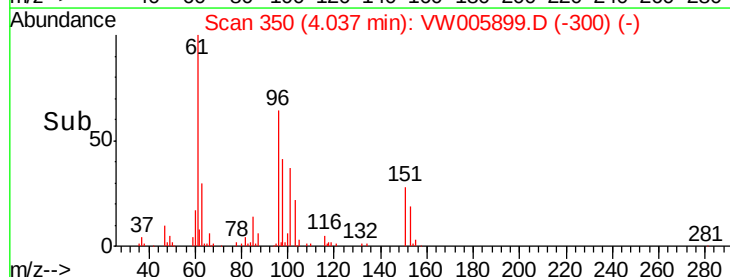
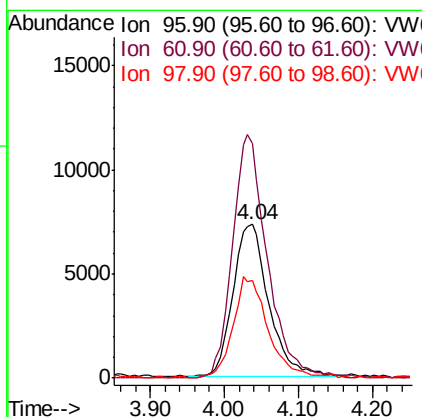
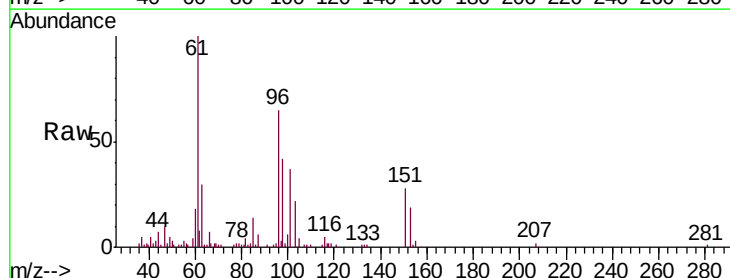
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2018

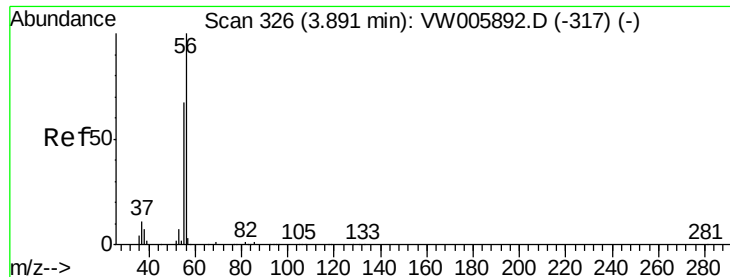
Tgt Ion: 59 Resp: 10023
Ion Ratio Lower Upper
59 100
57 6.8 7.7 11.5#



#12
1,1-Dichloroethene
Concen: 9.221 ug/l
RT: 4.04 min Scan# 350
Delta R.T. 0.01 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Tgt Ion: 96 Resp: 24560
Ion Ratio Lower Upper
96 100
61 154.5 128.6 193.0
98 64.7 49.4 74.0





#13

Acrolein

Concen: 47.989 ug/l

RT: 3.90 min Scan# 327

Delta R.T. 0.01 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

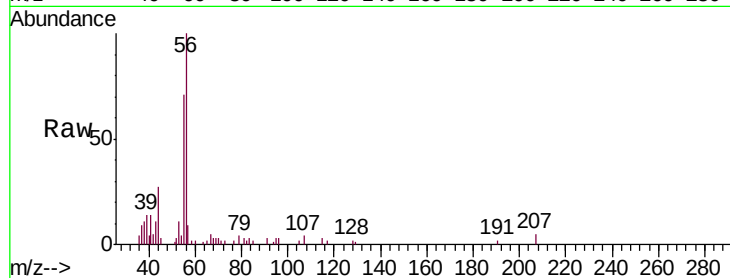
LOQ-SOIL-02-QT4-2018

Tgt Ion: 56 Resp: 9206

Ion Ratio Lower Upper

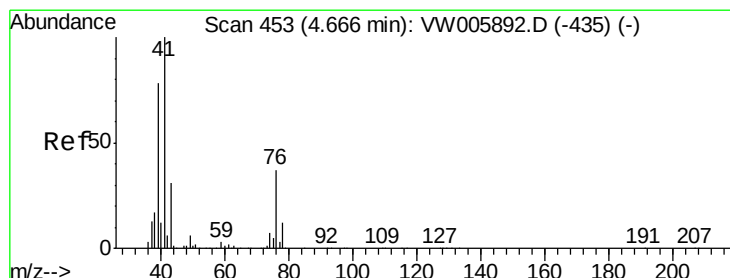
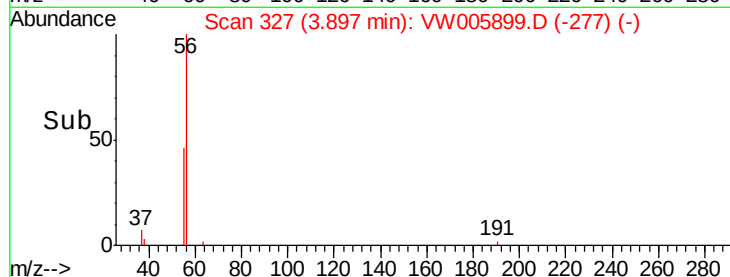
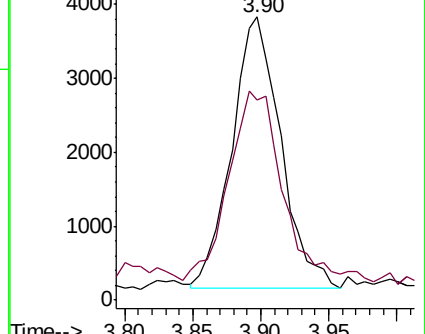
56 100

55 75.9 54.6 82.0



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#14

Allyl chloride

Concen: 8.811 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

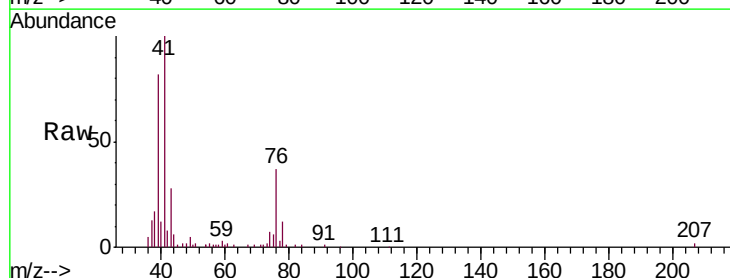
Tgt Ion: 41 Resp: 40020

Ion Ratio Lower Upper

41 100

39 75.6 60.8 91.2

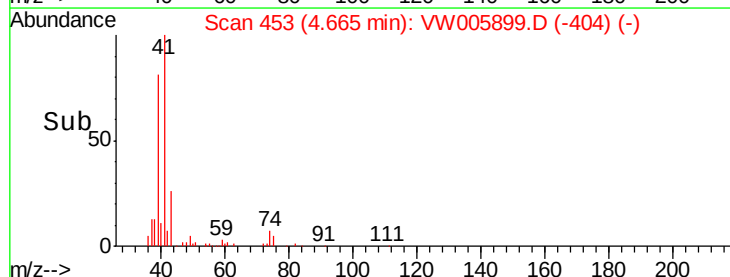
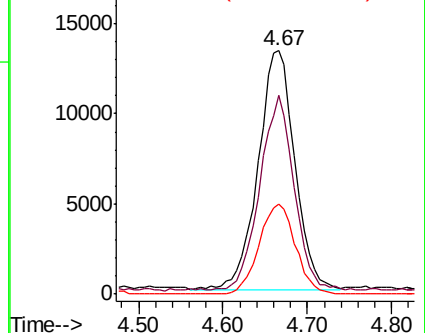
76 37.0 29.6 44.4

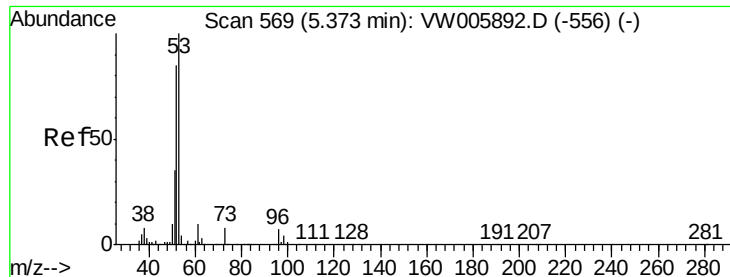


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 75.90 (75.60 to 76.60): VW





#15

Acrylonitrile

Concen: 48.395 ug/l

RT: 5.38 min Scan# 570

Delta R.T. 0.01 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2018

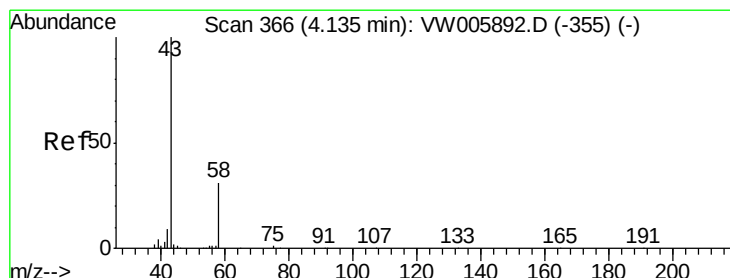
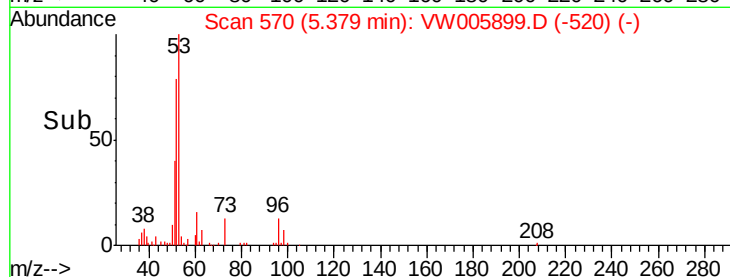
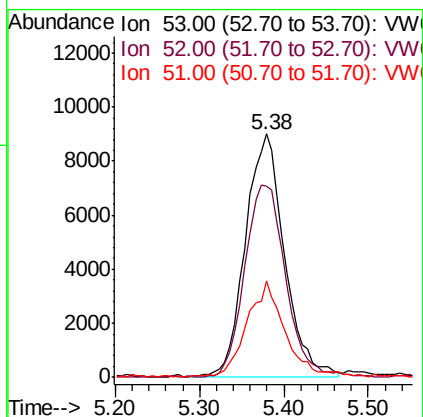
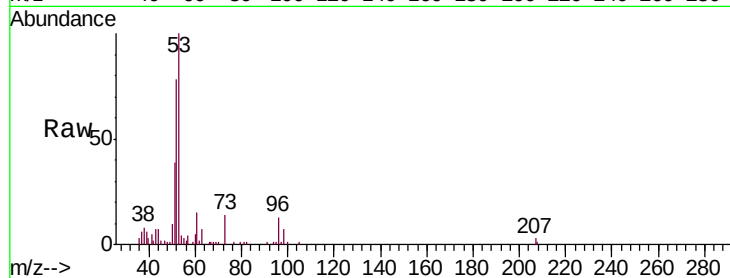
Tgt Ion: 53 Resp: 28489

Ion Ratio Lower Upper

53 100

52 83.1 66.8 100.2

51 39.0 29.8 44.6



#16

Acetone

Concen: 54.656 ug/l

RT: 4.14 min Scan# 367

Delta R.T. 0.01 min

Lab File: VW005899.D

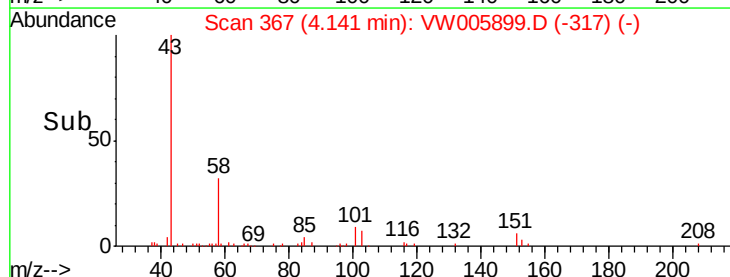
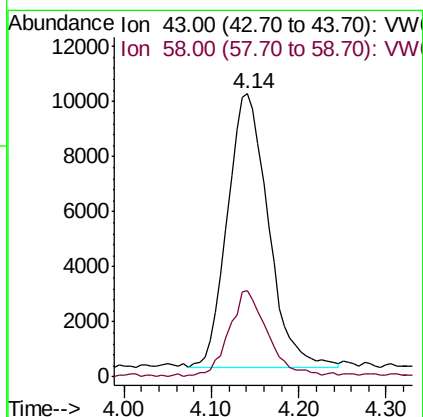
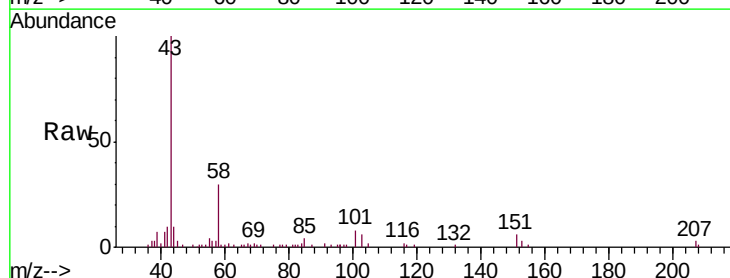
Acq: 08 Oct 2018 16:51

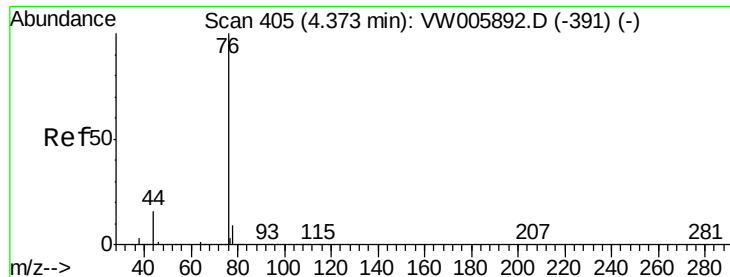
Tgt Ion: 43 Resp: 32067

Ion Ratio Lower Upper

43 100

58 30.8 24.7 37.1

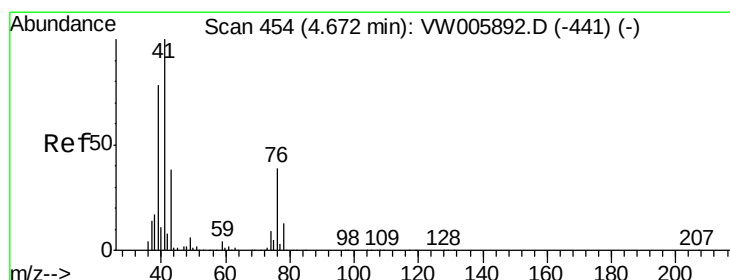
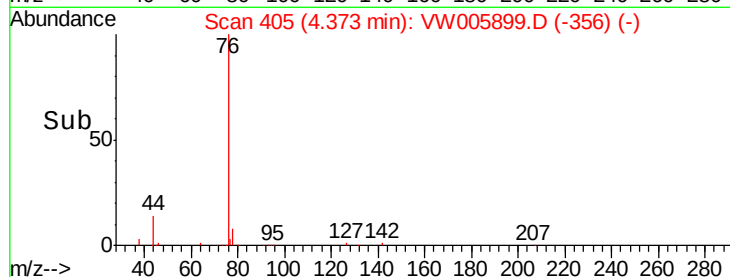
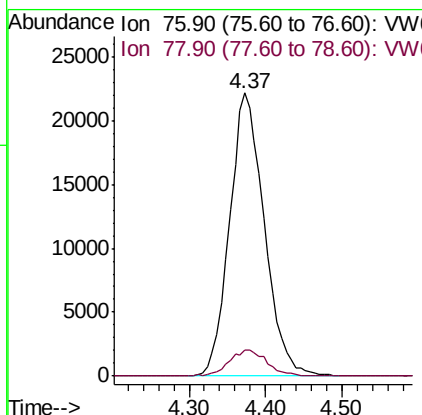
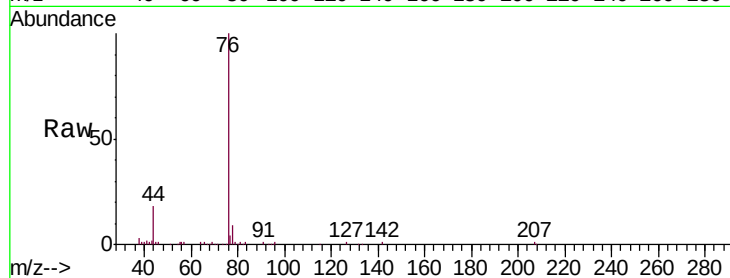




#17
Carbon Disulfide
Concen: 8.634 ug/l
RT: 4.37 min Scan# 405
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

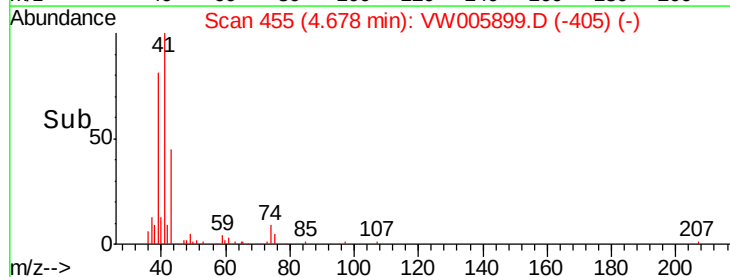
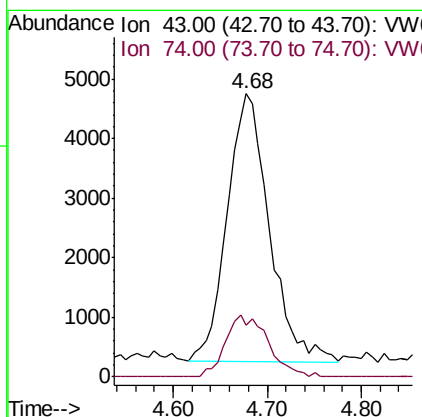
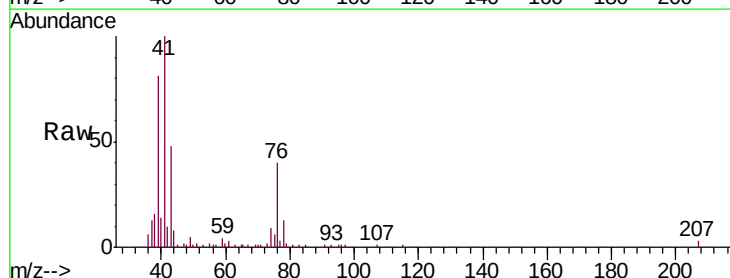
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2018

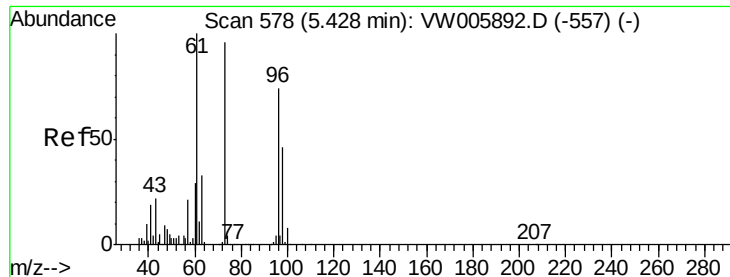
Tgt Ion: 76 Resp: 69528
Ion Ratio Lower Upper
76 100
78 9.1 7.4 11.0



#18
Methyl Acetate
Concen: 9.432 ug/l
RT: 4.68 min Scan# 455
Delta R.T. 0.01 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Tgt Ion: 43 Resp: 13965
Ion Ratio Lower Upper
43 100
74 23.5 19.2 28.8



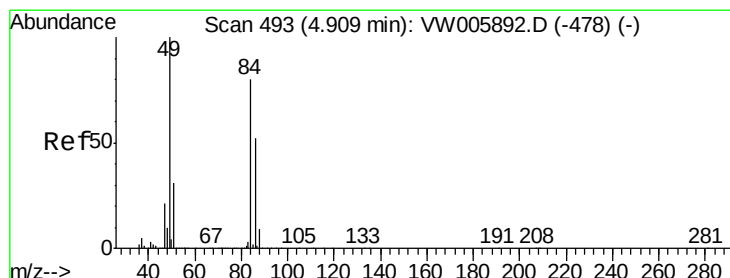
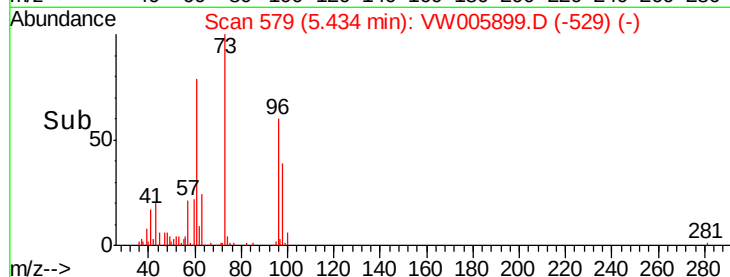
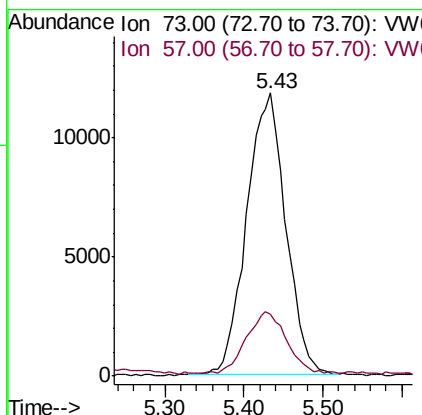
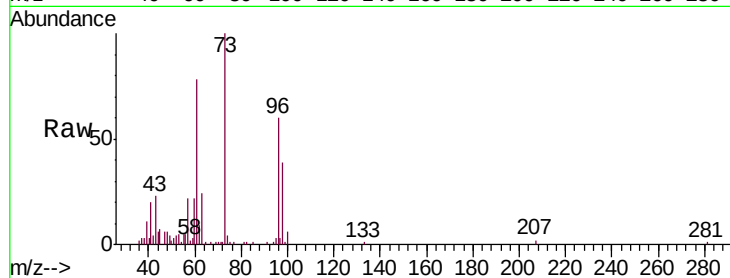


#19

Methyl tert-butyl Ether
 Concen: 9.804 ug/l
 RT: 5.43 min Scan# 579
 Delta R.T. 0.01 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

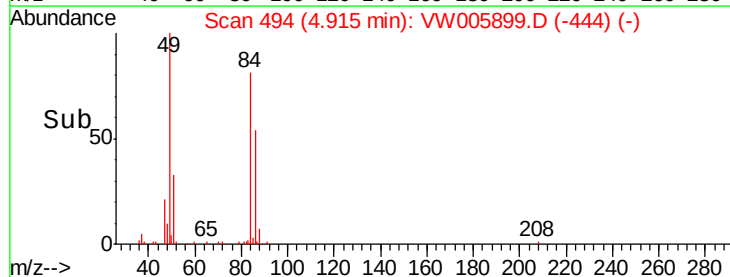
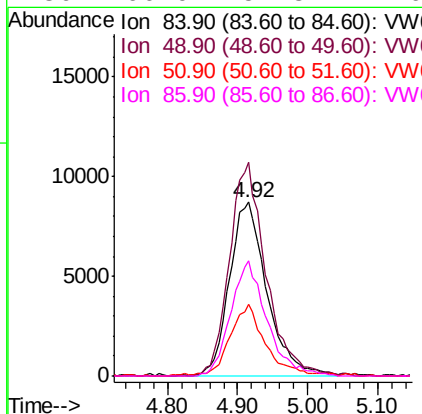
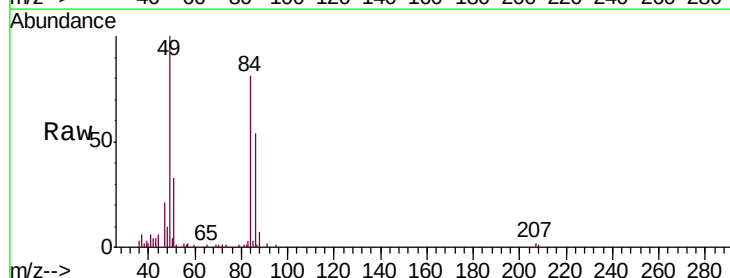
Tgt Ion: 73 Resp: 40628
 Ion Ratio Lower Upper
 73 100
 57 20.7 17.7 26.5

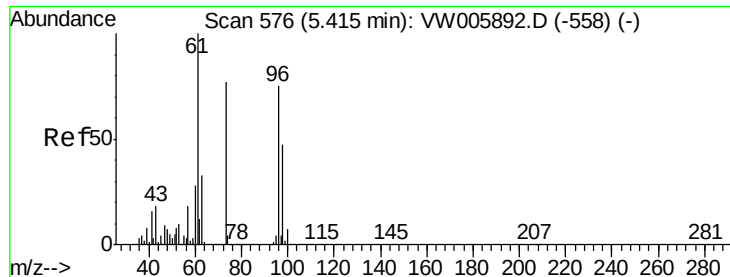


#20

Methylene Chloride
 Concen: 11.075 ug/l
 RT: 4.92 min Scan# 494
 Delta R.T. 0.01 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Tgt Ion: 84 Resp: 32555
 Ion Ratio Lower Upper
 84 100
 49 123.0 99.9 149.9
 51 41.1 31.1 46.7
 86 66.0 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 9.479 ug/l

RT: 5.42 min Scan# 576

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2018

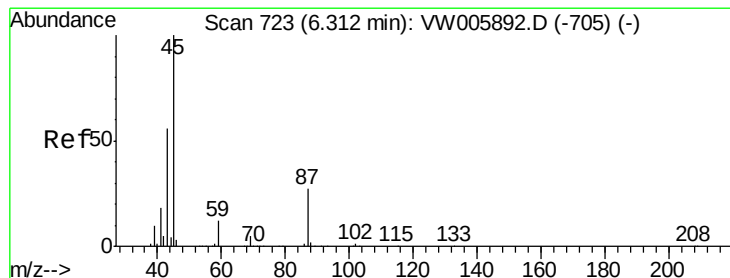
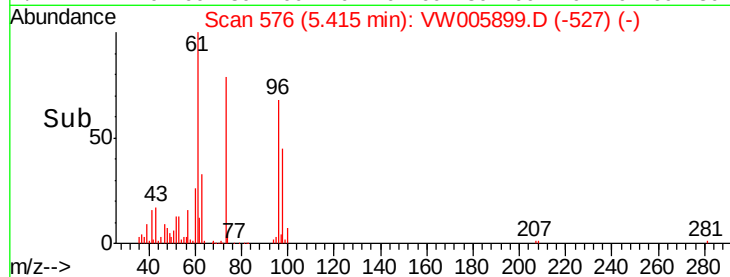
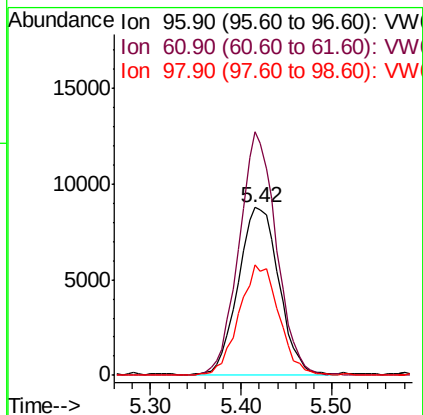
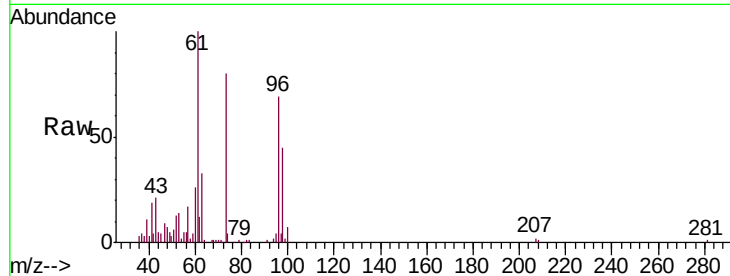
Tgt Ion: 96 Resp: 27519

Ion Ratio Lower Upper

96 100

61 145.3 107.4 161.0

98 66.1 50.8 76.2



#22

Diisopropyl ether

Concen: 9.182 ug/l

RT: 6.31 min Scan# 723

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Tgt Ion: 45 Resp: 77963

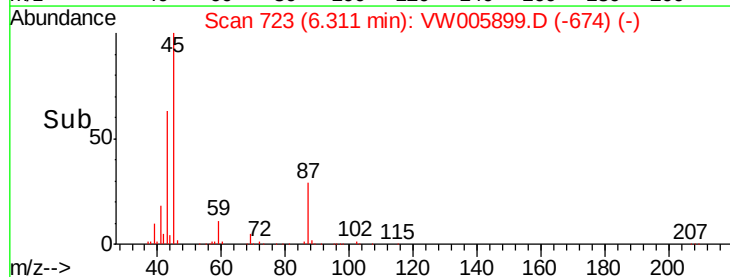
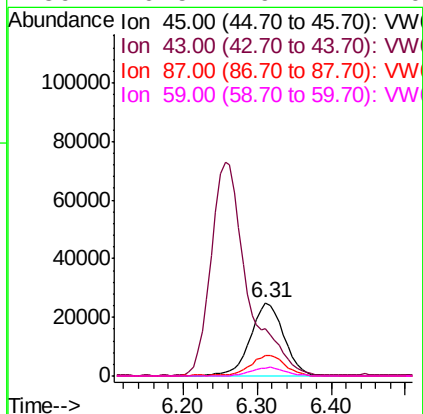
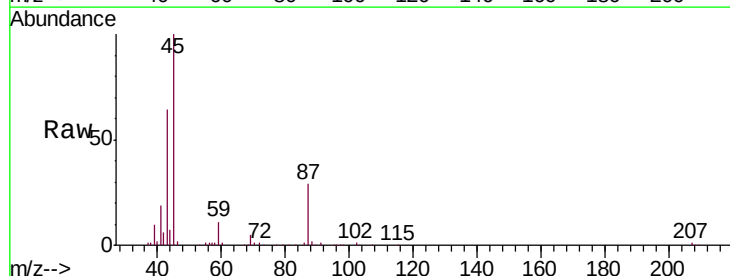
Ion Ratio Lower Upper

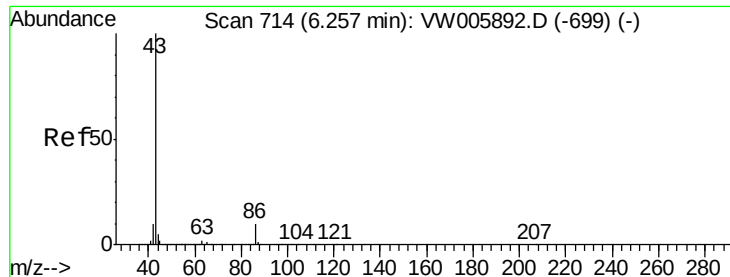
45 100

43 62.8 45.9 68.9

87 28.9 22.2 33.4

59 10.5 9.4 14.0





#23

Vinyl Acetate

Concen: 47.009 ug/l

RT: 6.26 min Scan# 714

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

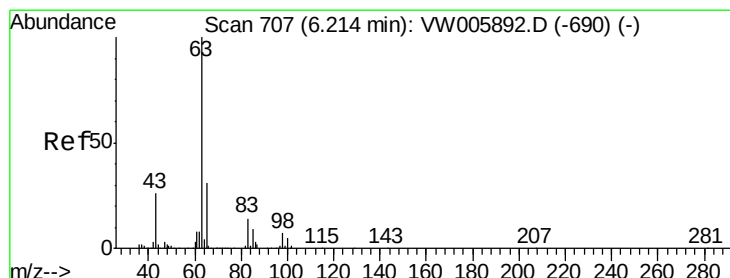
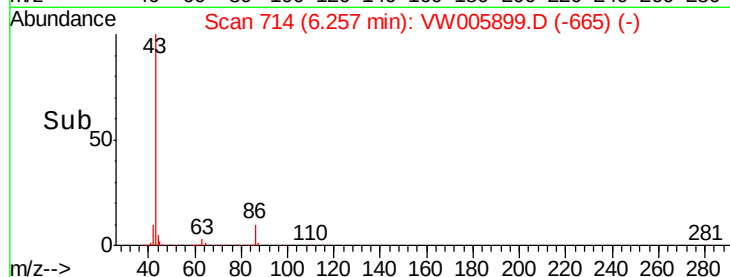
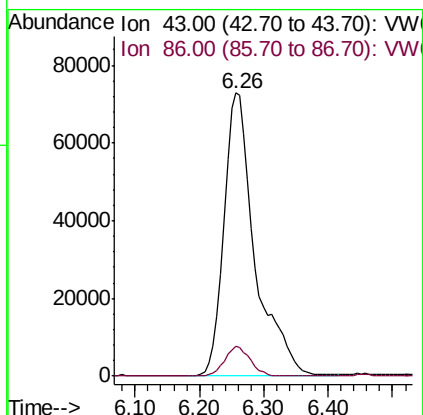
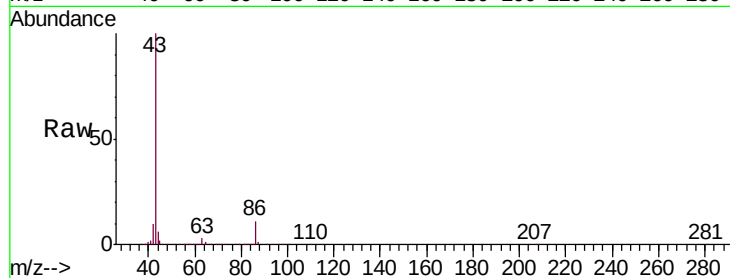
LOQ-SOIL-02-QT4-2018

Tgt Ion: 43 Resp: 245676

Ion Ratio Lower Upper

43 100

86 10.6 8.2 12.4



#24

1,1-Dichloroethane

Concen: 9.271 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

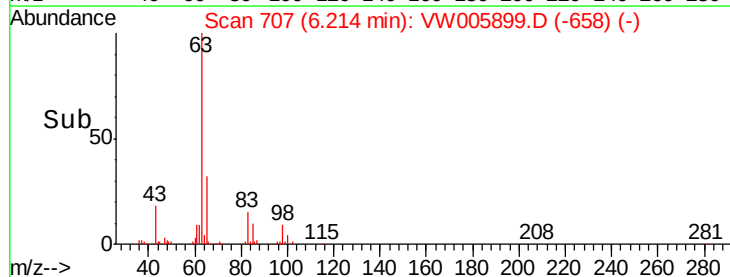
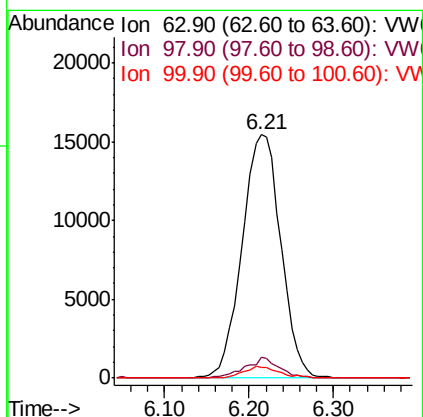
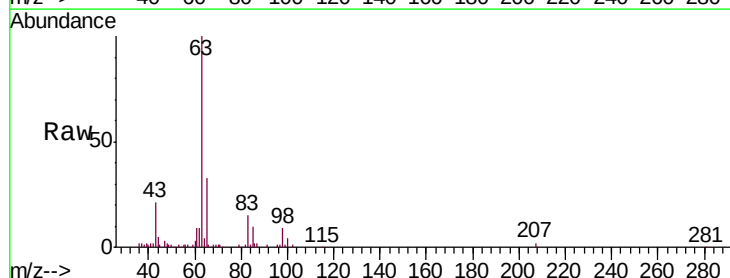
Tgt Ion: 63 Resp: 48175

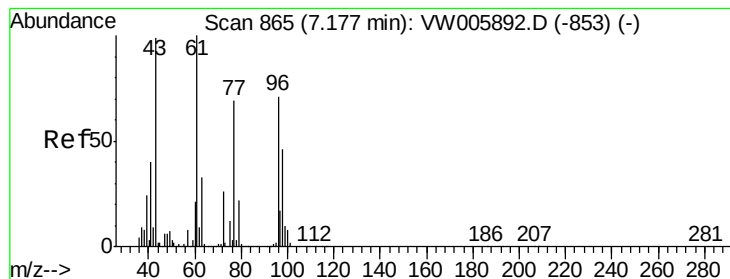
Ion Ratio Lower Upper

63 100

98 8.6 3.5 10.6

100 4.5 2.4 7.1





#25

2-Butanone

Concen: 50.789 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

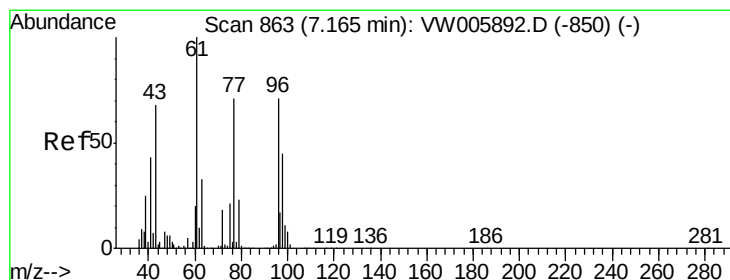
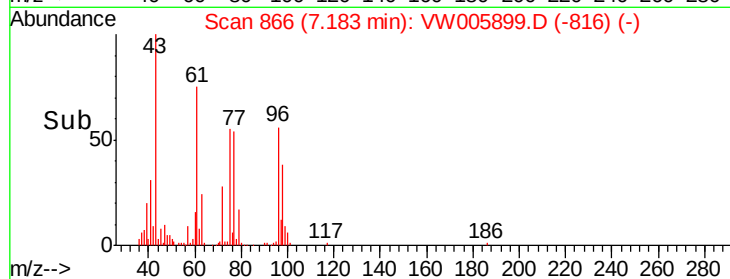
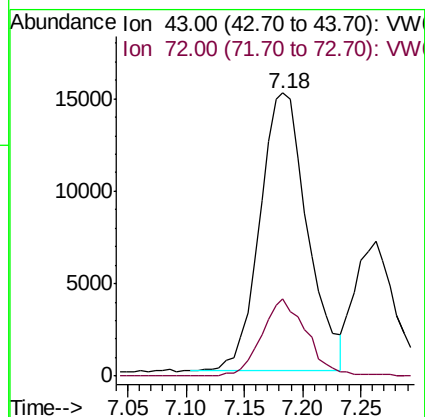
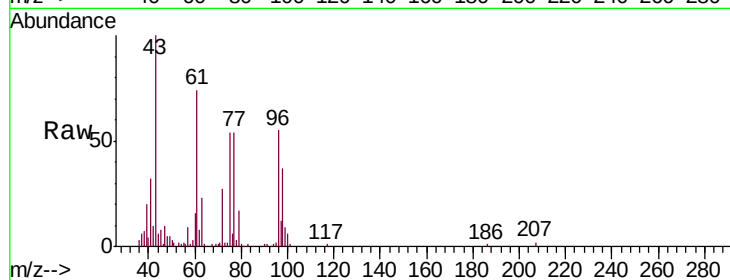
LOQ-SOIL-02-QT4-2018

Tgt Ion: 43 Resp: 42383

Ion Ratio Lower Upper

43 100

72 27.6 21.0 31.4



#26

2,2-Dichloropropane

Concen: 9.850 ug/l

RT: 7.16 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW005899.D

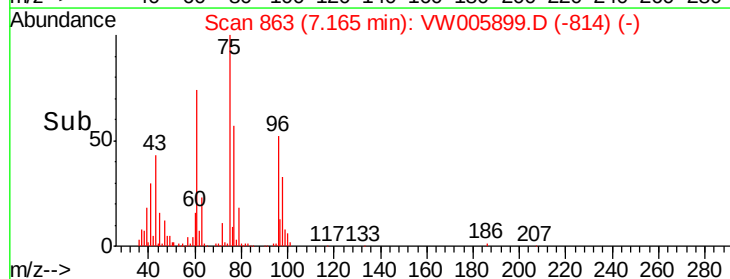
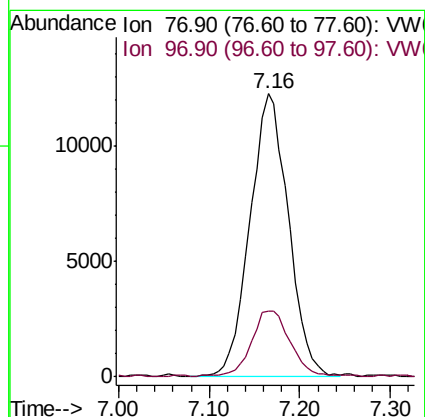
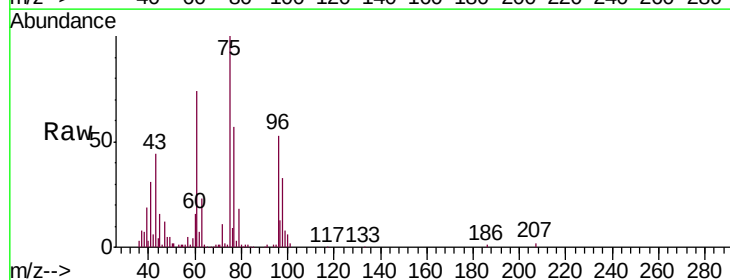
Acq: 08 Oct 2018 16:51

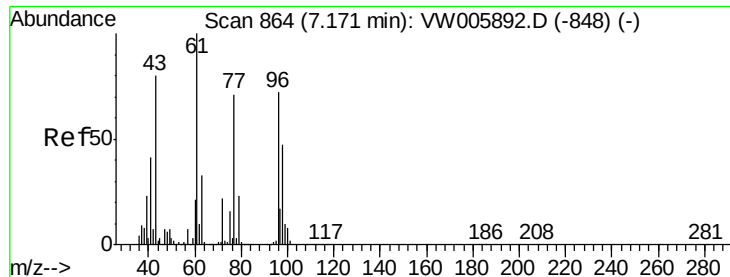
Tgt Ion: 77 Resp: 36022

Ion Ratio Lower Upper

77 100

97 23.8 11.9 35.7



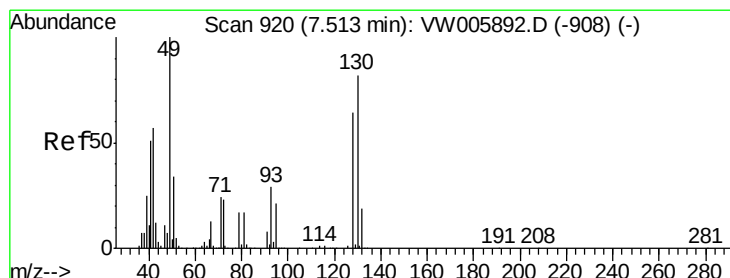
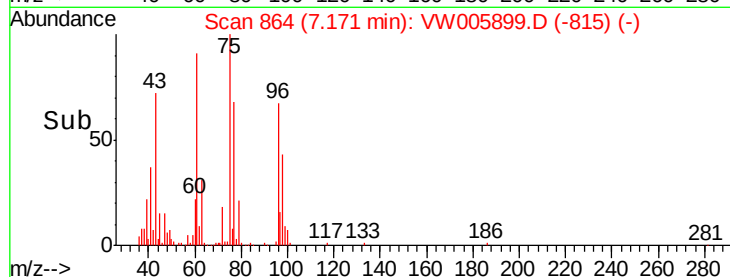
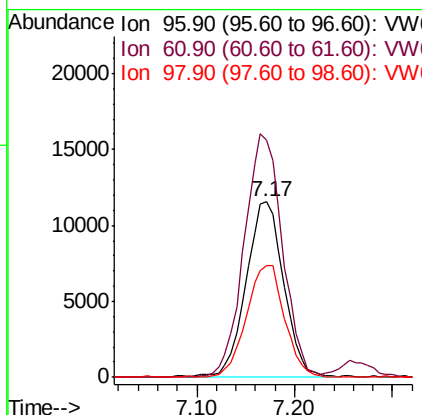
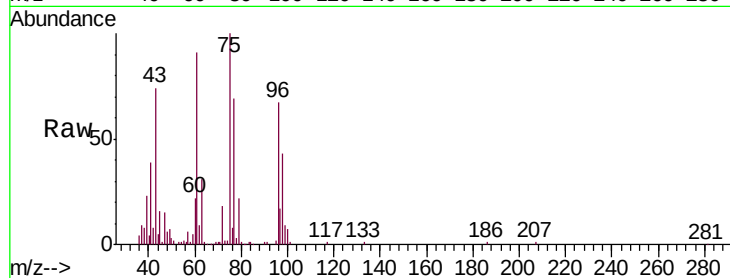


#27

cis-1,2-Dichloroethene
 Concen: 9.418 ug/l
 RT: 7.17 min Scan# 864
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

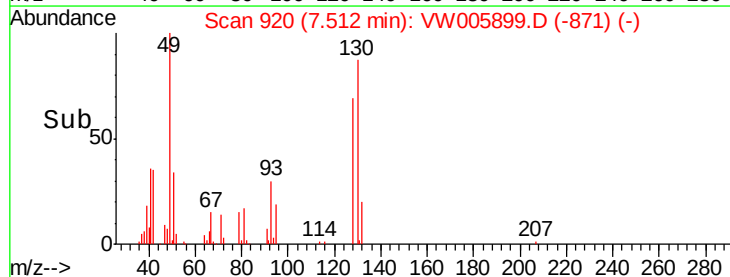
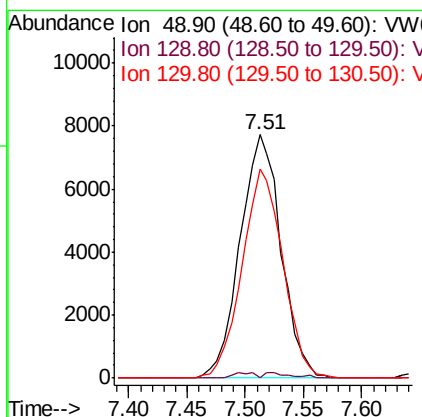
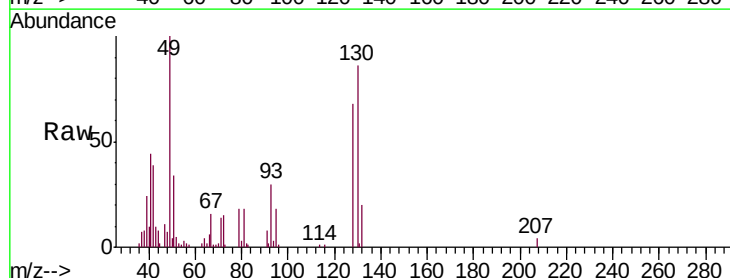
Tgt Ion: 96 Resp: 30921
 Ion Ratio Lower Upper
 96 100
 61 140.4 0.0 284.0
 98 64.9 0.0 129.8

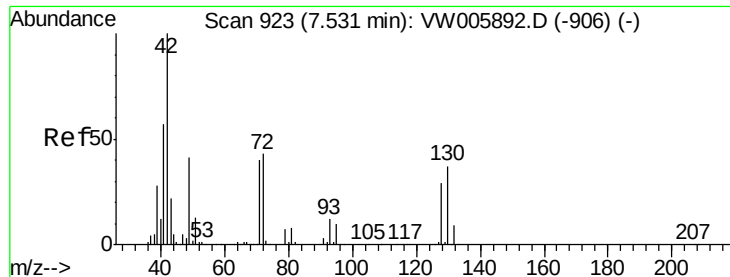


#28

Bromochloromethane
 Concen: 9.853 ug/l
 RT: 7.51 min Scan# 920
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Tgt Ion: 49 Resp: 18898
 Ion Ratio Lower Upper
 49 100
 129 1.1 0.0 5.0
 130 85.6 66.9 100.3





#29

Tetrahydrofuran

Concen: 48.105 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2018

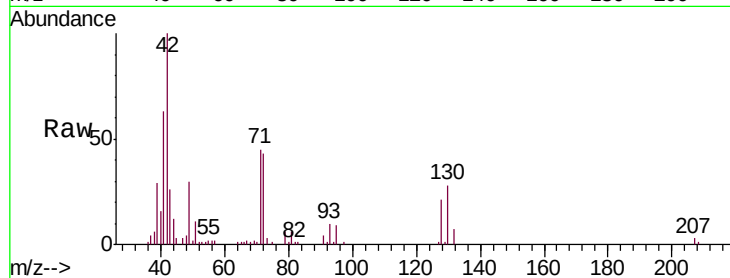
Tgt Ion: 42 Resp: 25376

Ion Ratio Lower Upper

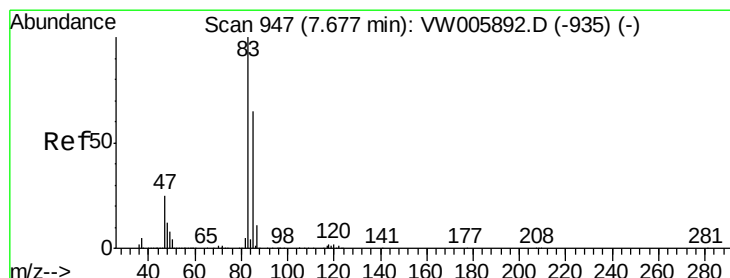
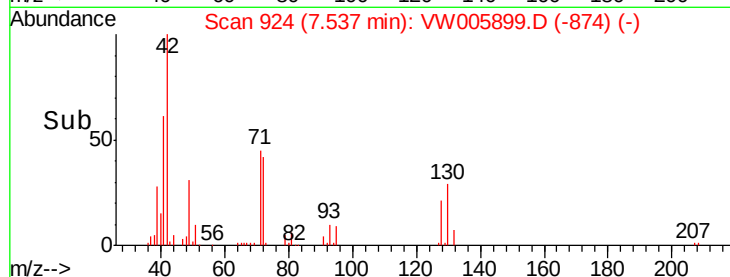
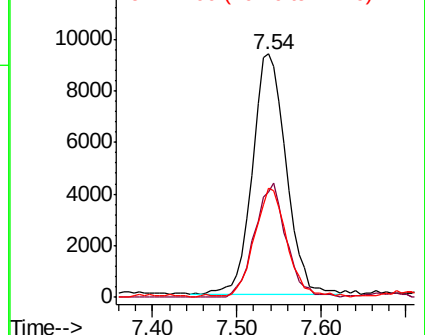
42 100

72 44.7 34.6 51.8

71 44.4 32.6 49.0



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



#30

Chloroform

Concen: 9.495 ug/l

RT: 7.68 min Scan# 947

Delta R.T. -0.00 min

Lab File: VW005899.D

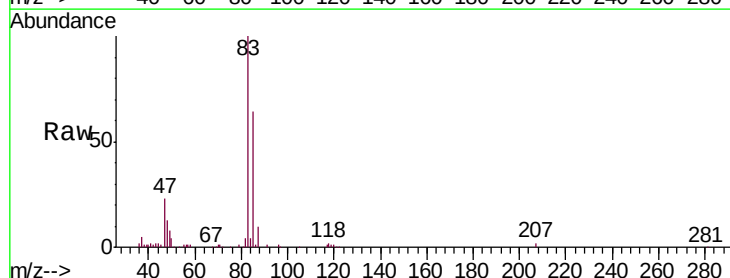
Acq: 08 Oct 2018 16:51

Tgt Ion: 83 Resp: 50679

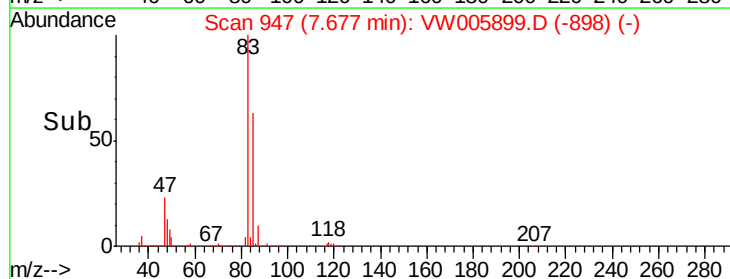
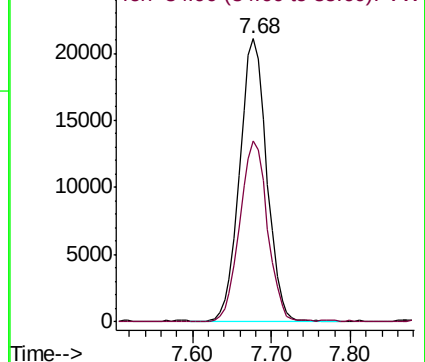
Ion Ratio Lower Upper

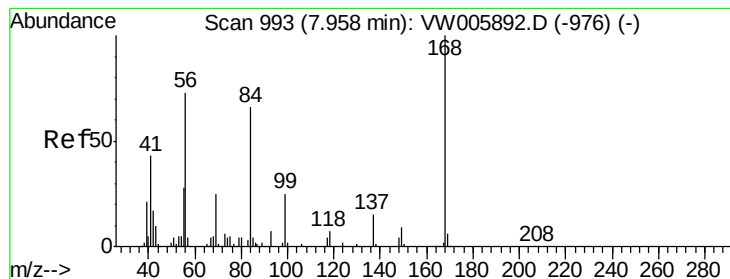
83 100

85 63.8 51.6 77.4



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





#31

Cyclohexane

Concen: 9.657 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2018

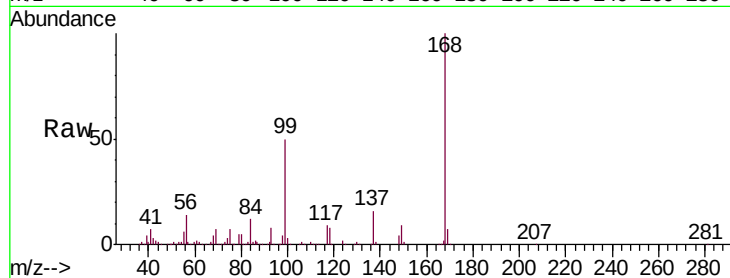
Tgt Ion: 56 Resp: 49659

Ion Ratio Lower Upper

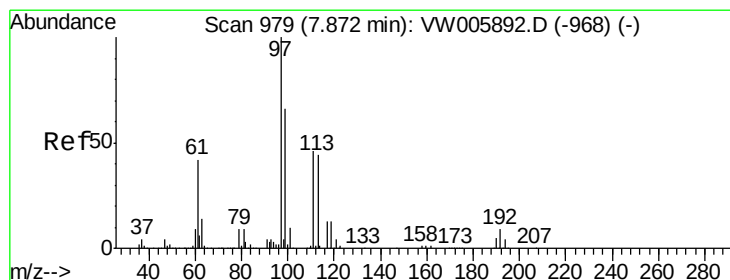
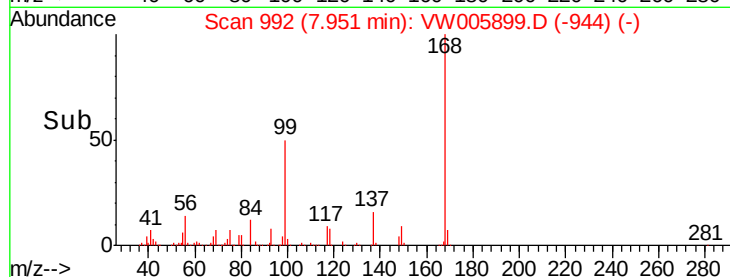
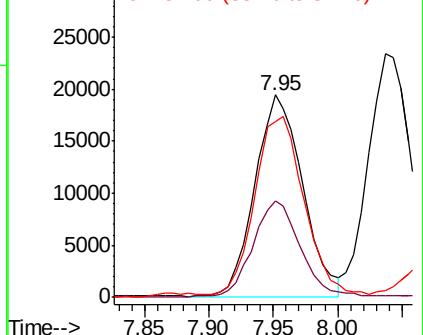
56 100

69 47.0 27.9 41.9#

84 85.6 72.3 108.5



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: 9.491 ug/l

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

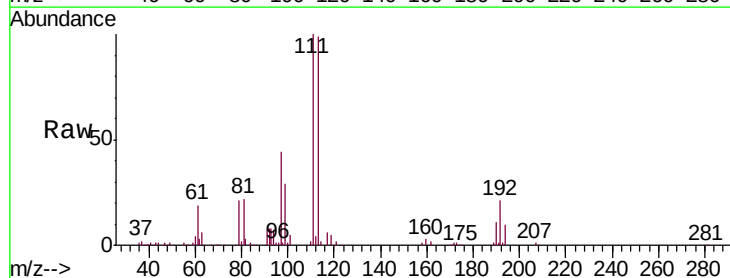
Tgt Ion: 97 Resp: 45112

Ion Ratio Lower Upper

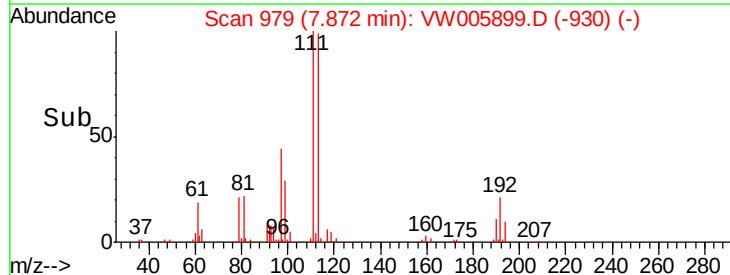
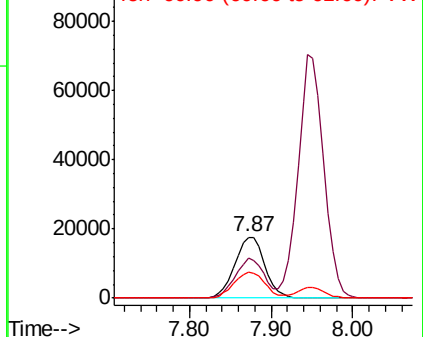
97 100

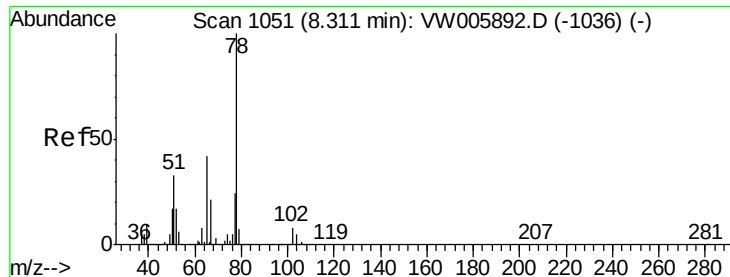
99 61.0 51.6 77.4

61 43.4 34.5 51.7



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

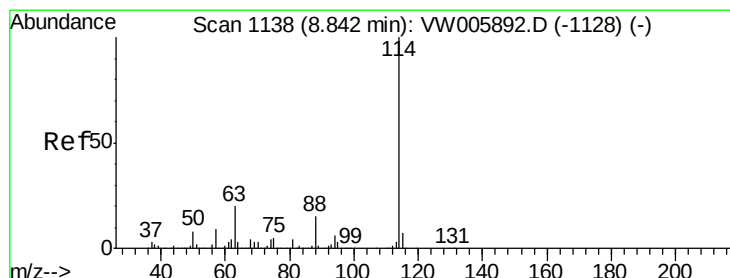
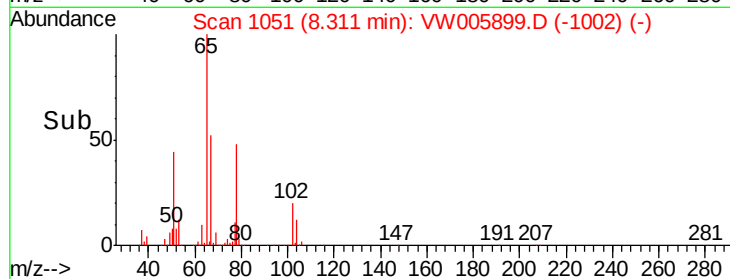
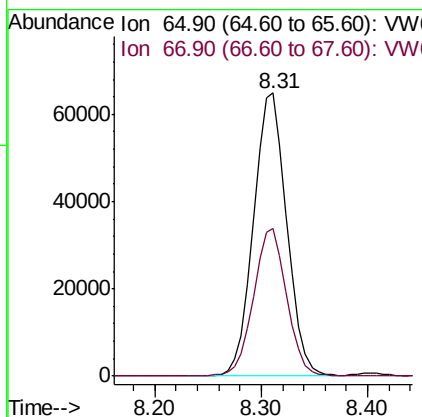
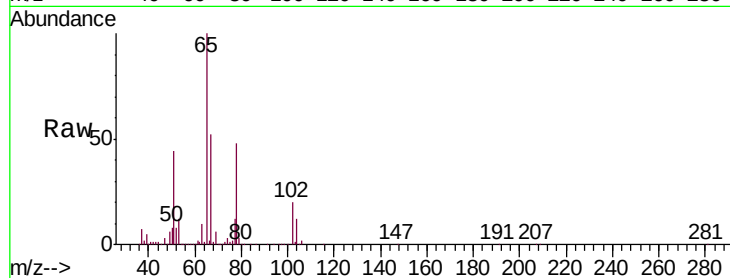




#33
 1,2-Dichloroethane-d4
 Concen: 48.286 ug/l
 RT: 8.31 min Scan# 1051
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

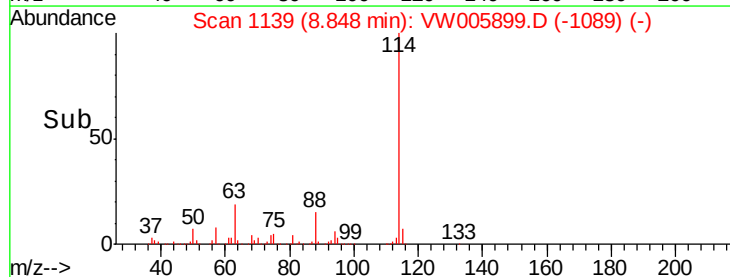
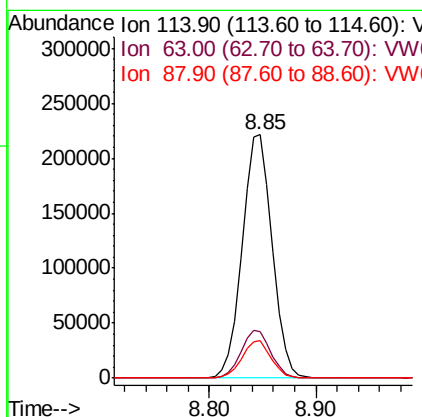
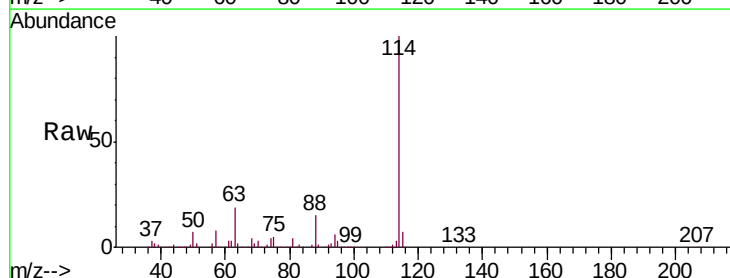
Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

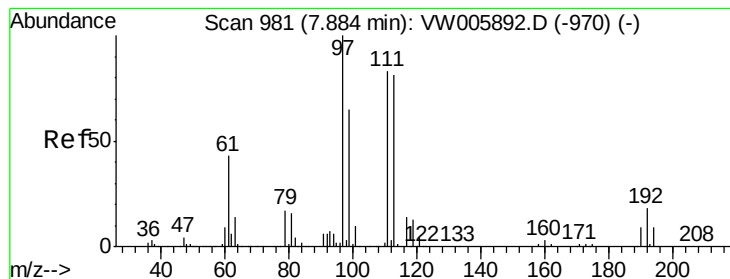
Tgt Ion: 65 Resp: 141830
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. 0.01 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Tgt Ion: 114 Resp: 436814
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 39.2
 88 15.4 0.0 30.8





#35

Dibromofluoromethane

Concen: 50.142 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2018

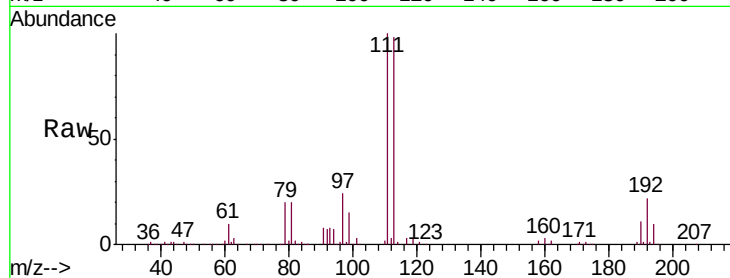
Tgt Ion:113 Resp: 139840

Ion Ratio Lower Upper

113 100

111 101.8 82.0 123.0

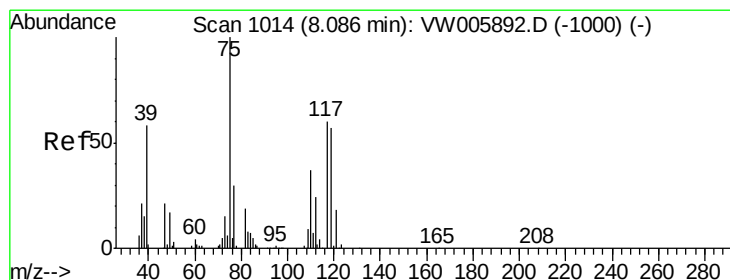
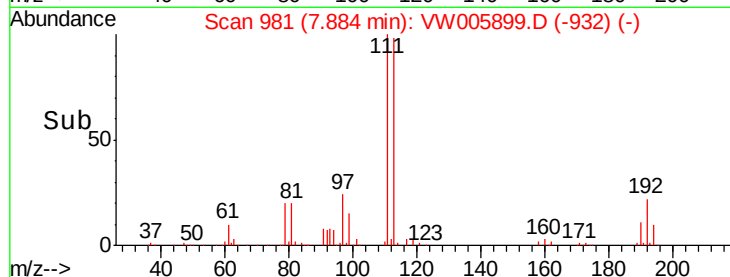
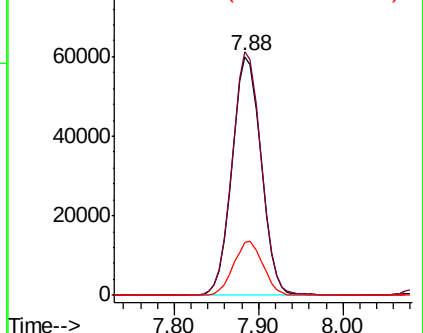
192 22.9 18.3 27.5



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 9.359 ug/l

RT: 8.09 min Scan# 1014

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

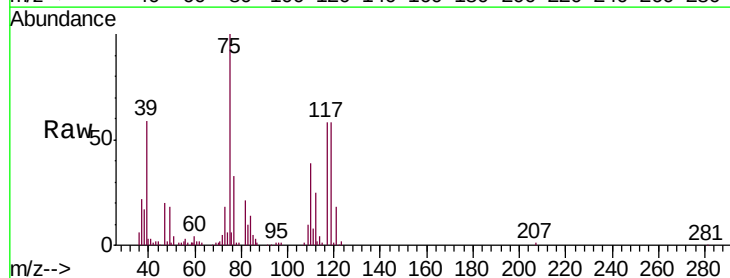
Tgt Ion: 75 Resp: 39173

Ion Ratio Lower Upper

75 100

110 37.9 18.6 56.0

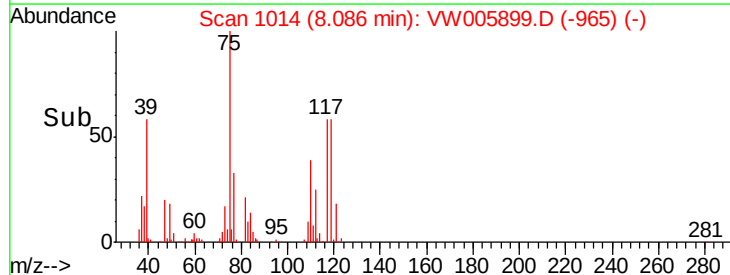
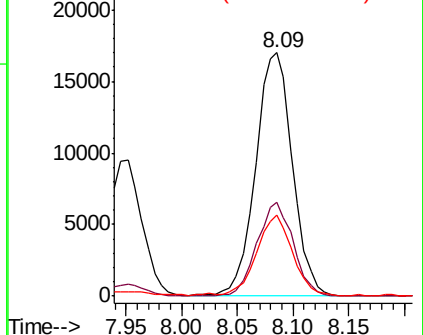
77 33.1 24.7 37.1

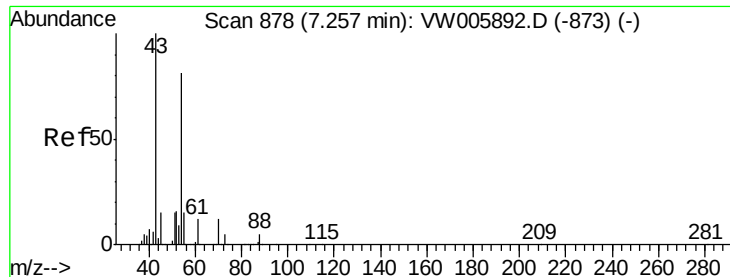


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

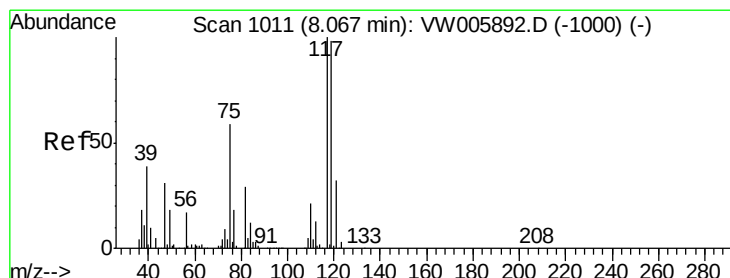
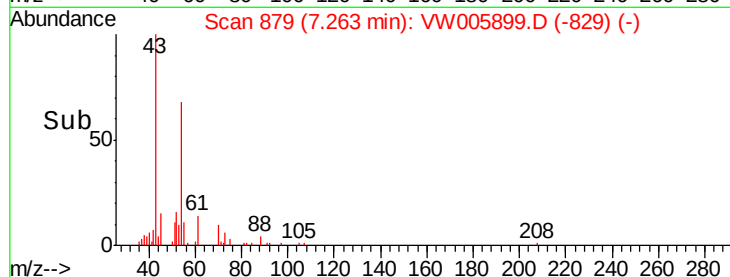
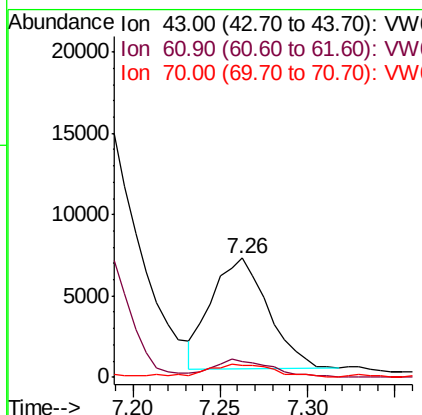
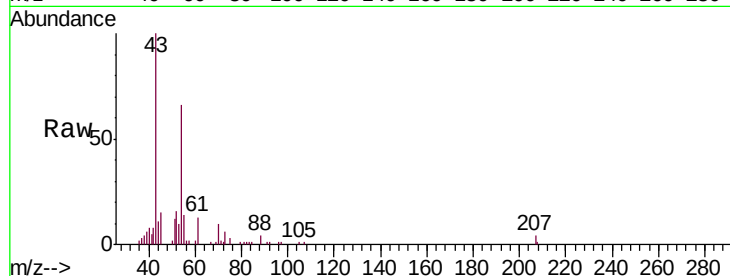




#37
Ethyl Acetate
Concen: 8.644 ug/l
RT: 7.26 min Scan# 879
Delta R.T. 0.01 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

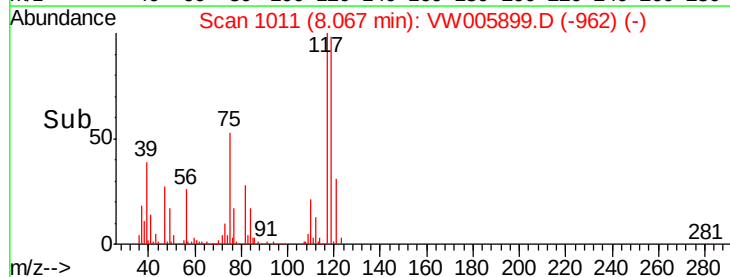
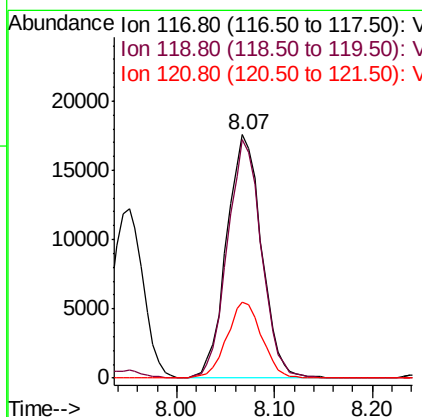
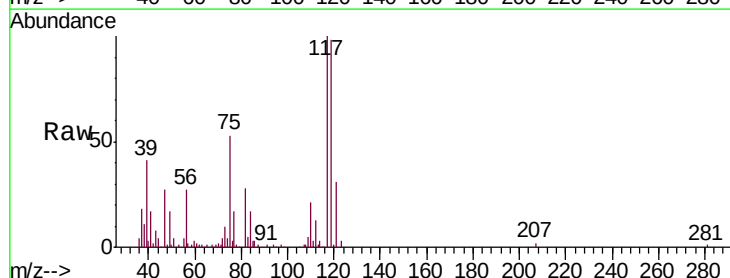
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2018

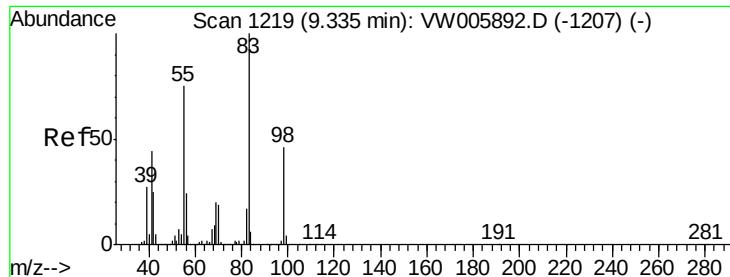
Tgt Ion: 43 Resp: 15321
Ion Ratio Lower Upper
43 100
61 17.2 10.6 16.0#
70 14.4 8.6 13.0#



#38
Carbon Tetrachloride
Concen: 9.679 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Tgt Ion: 117 Resp: 43524
Ion Ratio Lower Upper
117 100
119 97.9 78.6 117.8
121 31.2 25.3 37.9

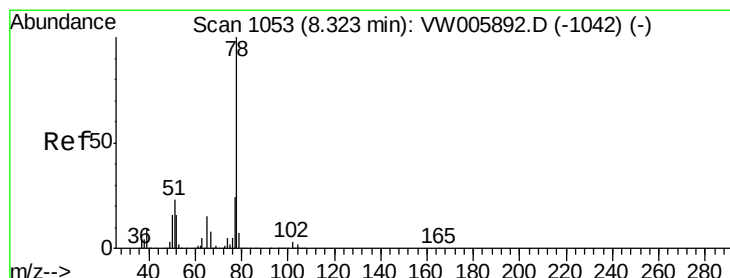
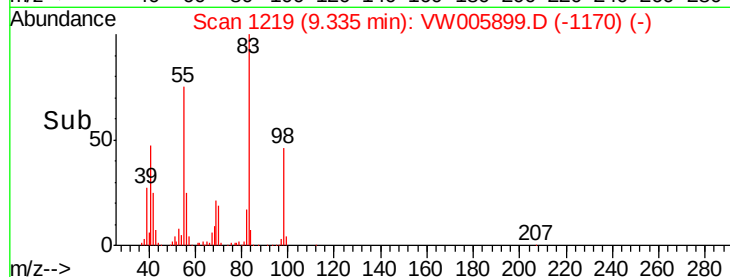
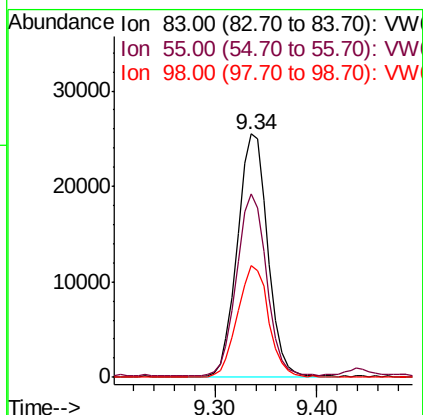
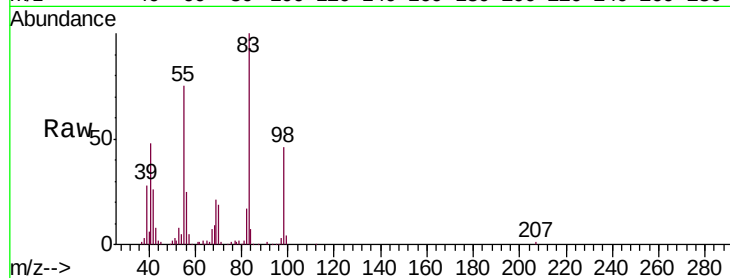




#39
Methylcyclohexane
Concen: 9.552 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

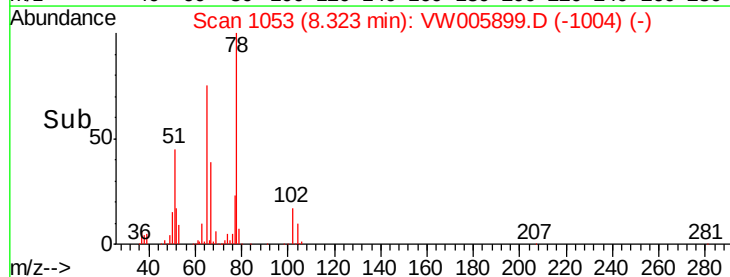
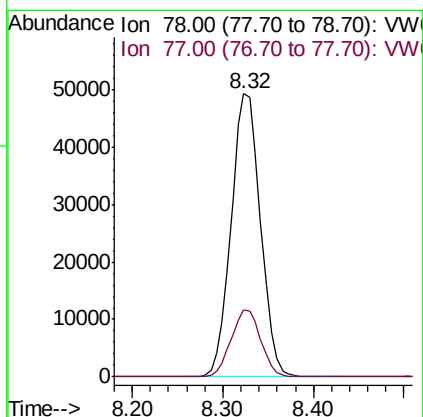
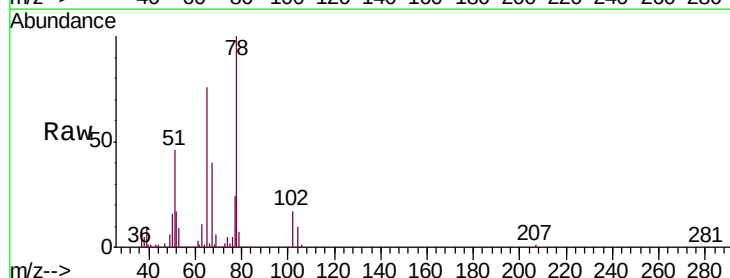
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2018

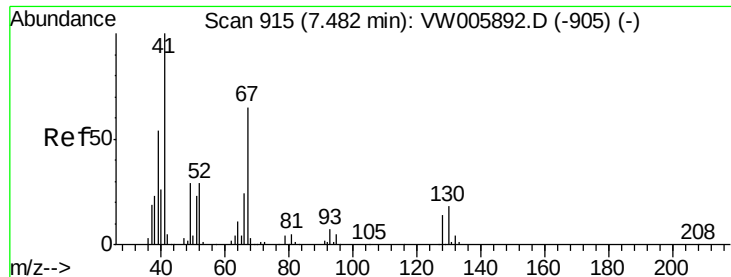
Tgt Ion: 83 Resp: 52735
Ion Ratio Lower Upper
83 100
55 74.4 59.8 89.6
98 45.5 37.1 55.7



#40
Benzene
Concen: 9.641 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Tgt Ion: 78 Resp: 110444
Ion Ratio Lower Upper
78 100
77 23.4 19.1 28.7

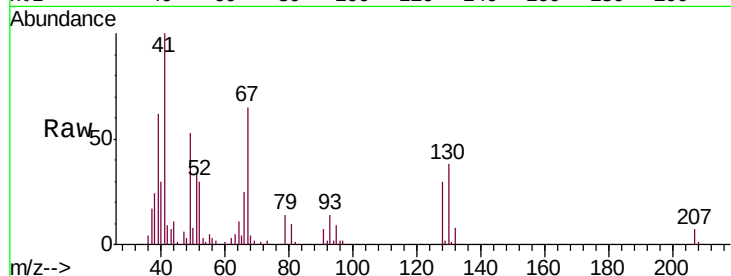




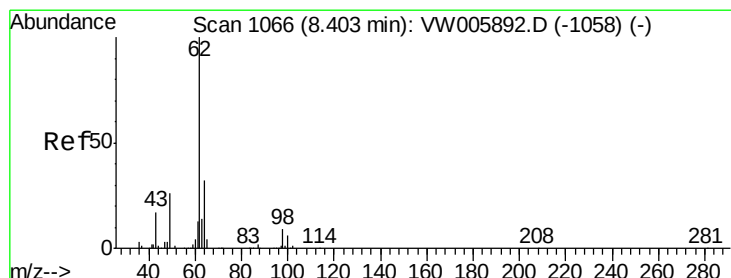
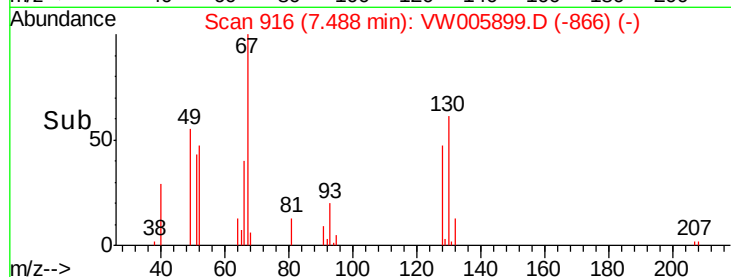
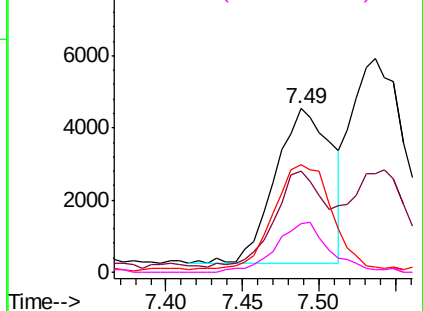
#41
Methacrylonitrile
Concen: 10.012 ug/l
RT: 7.49 min Scan# 916
Delta R.T. 0.01 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion:	41	Resp:	11110
Ion	Ratio	Lower	Upper
41	100		
39	53.0	45.0	67.4
67	69.7	55.8	83.8
52	30.3	25.3	37.9

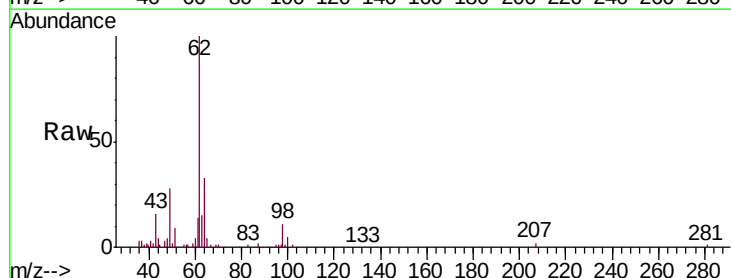


Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 67.00 (66.70 to 67.70): VW
Ion 52.00 (51.70 to 52.70): VW

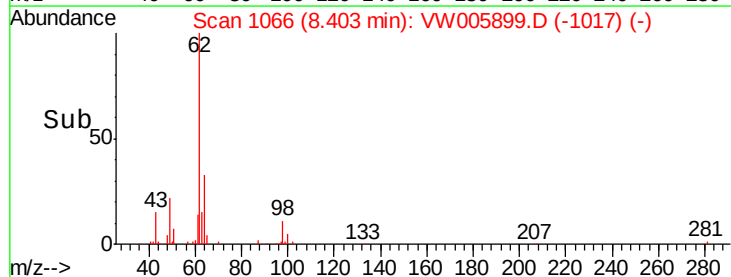
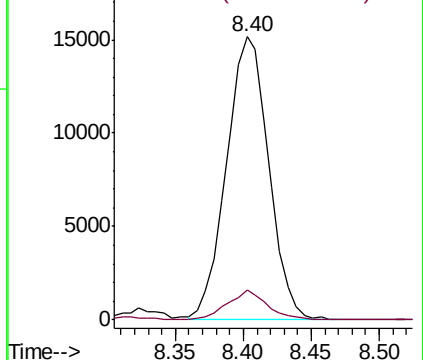


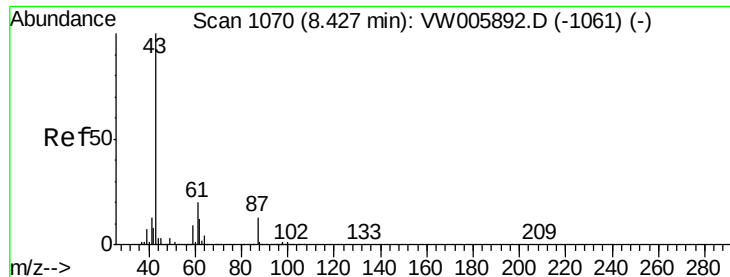
#42
1,2-Dichloroethane
Concen: 9.468 ug/l
RT: 8.40 min Scan# 1066
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Tgt Ion:	62	Resp:	32768
Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	18.0



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





#43

Isopropyl Acetate

Concen: 9.674 ug/l

RT: 8.43 min Scan# 1071

Delta R.T. 0.01 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2018

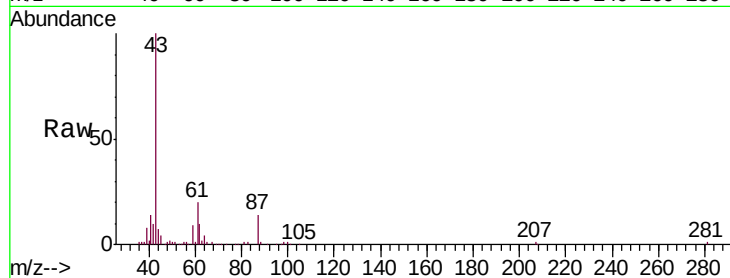
Tgt Ion: 43 Resp: 35817

Ion Ratio Lower Upper

43 100

61 28.9 23.1 34.7

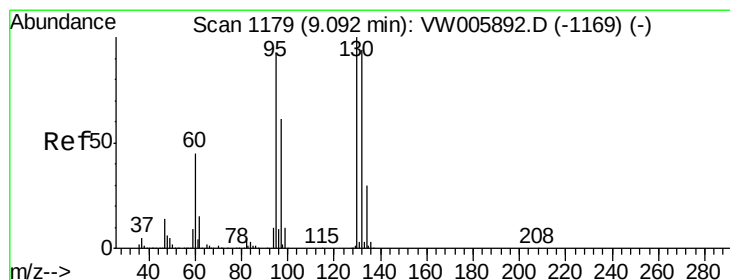
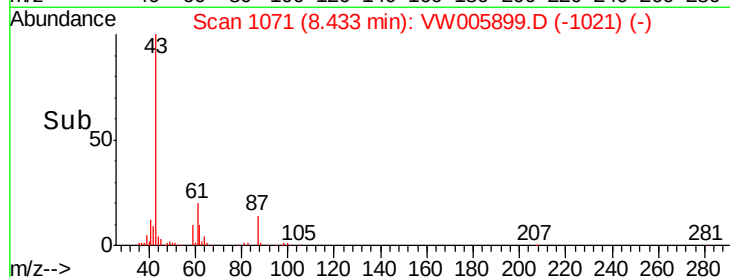
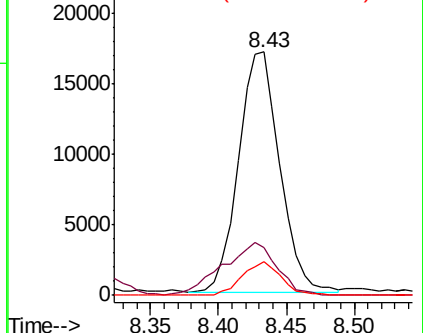
87 13.3 10.7 16.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 87.00 (86.70 to 87.70): VW



#44

Trichloroethene

Concen: 9.708 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW005899.D

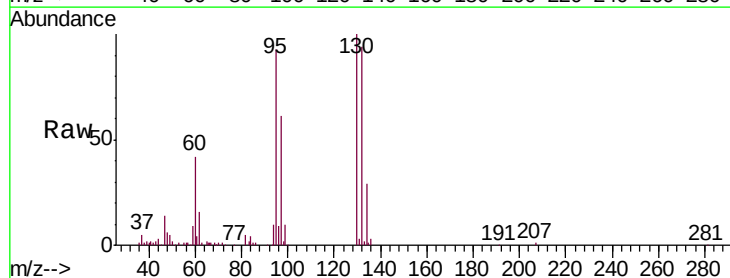
Acq: 08 Oct 2018 16:51

Tgt Ion: 130 Resp: 32266

Ion Ratio Lower Upper

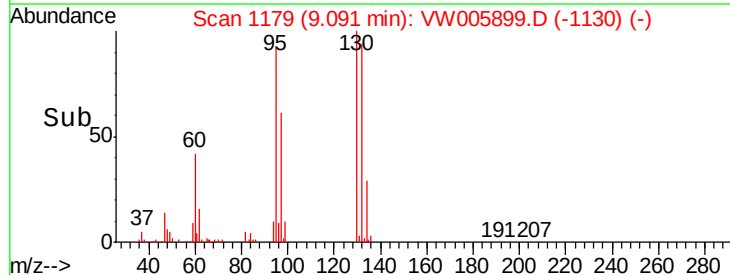
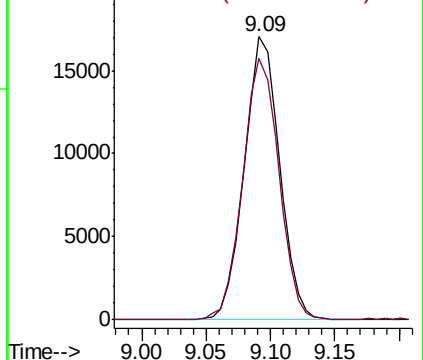
130 100

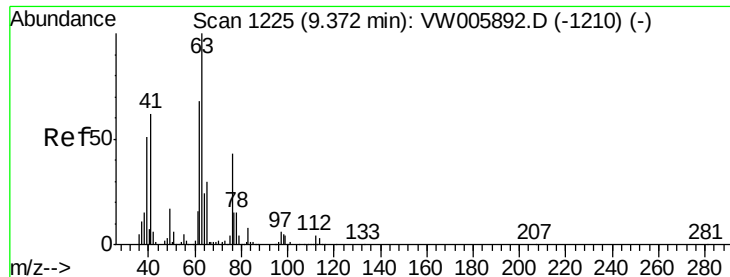
95 92.6 0.0 185.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW

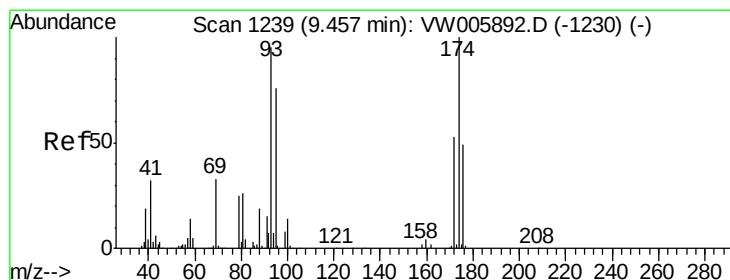
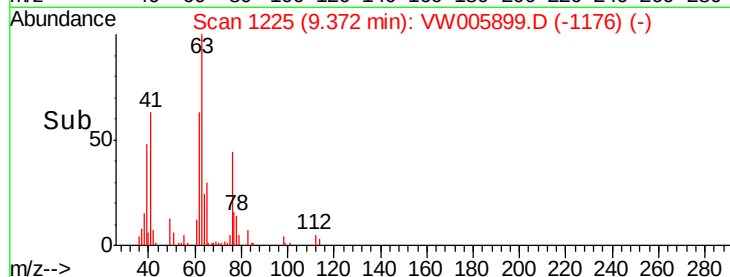
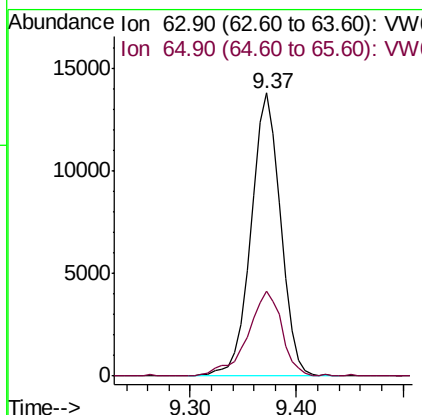
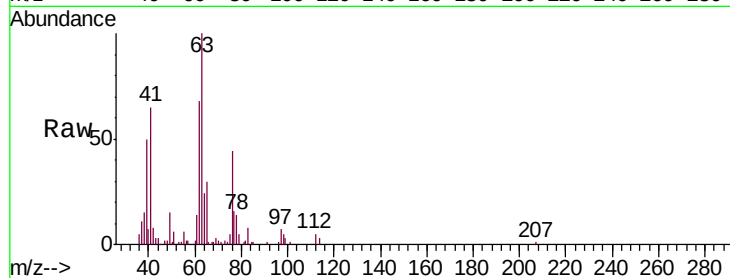




#45
 1,2-Dichloropropane
 Concen: 9.374 ug/l
 RT: 9.37 min Scan# 1225
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

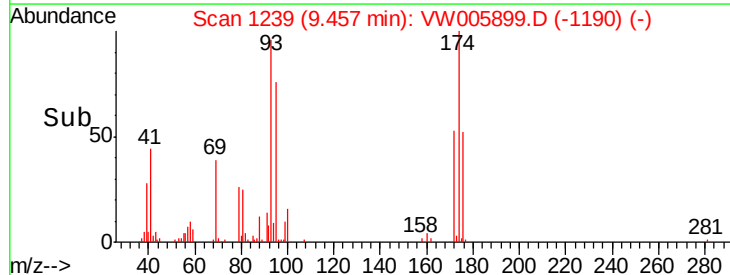
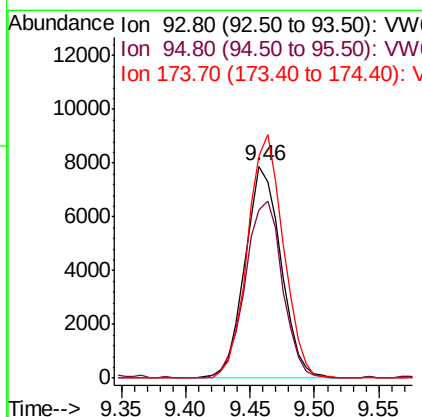
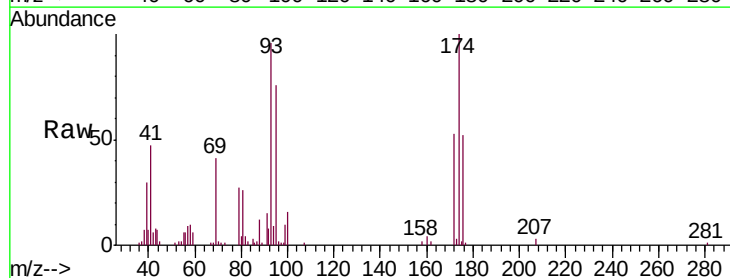
Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

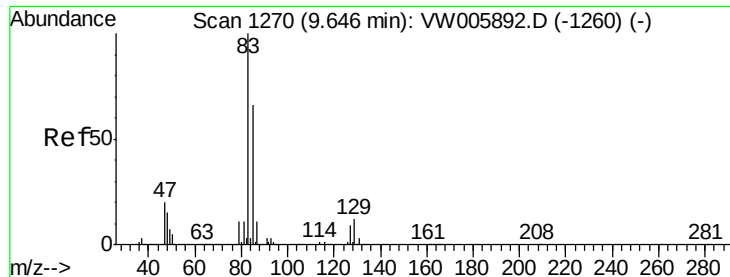
Tgt Ion: 63 Resp: 26879
 Ion Ratio Lower Upper
 63 100
 65 30.0 24.3 36.5



#46
 Dibromomethane
 Concen: 9.645 ug/l
 RT: 9.46 min Scan# 1239
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Tgt Ion: 93 Resp: 15201
 Ion Ratio Lower Upper
 93 100
 95 86.5 66.6 99.8
 174 113.9 90.4 135.6





#47

Bromodichloromethane

Concen: 9.484 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2018

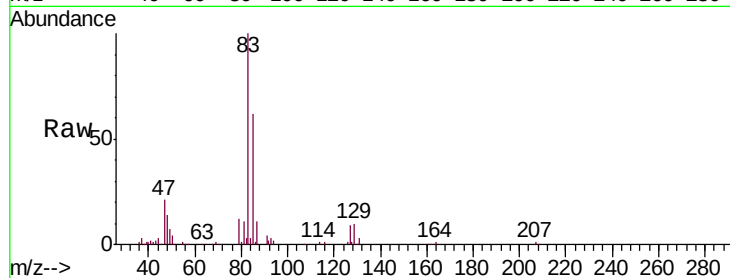
Tgt Ion: 83 Resp: 37611

Ion Ratio Lower Upper

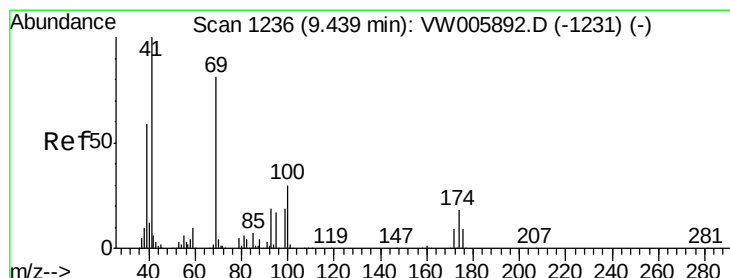
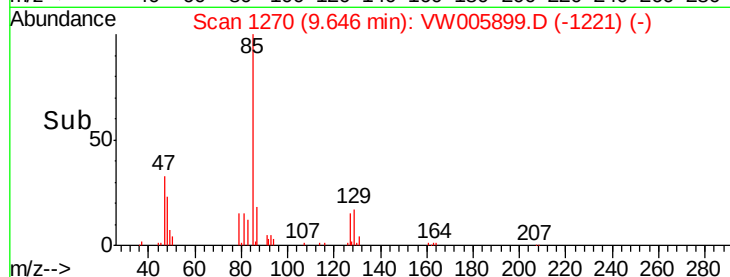
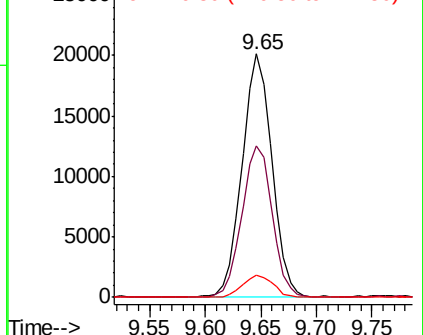
83 100

85 62.3 53.0 79.6

127 9.1 7.4 11.0



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



#48

Methyl methacrylate

Concen: 9.697 ug/l

RT: 9.44 min Scan# 1236

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

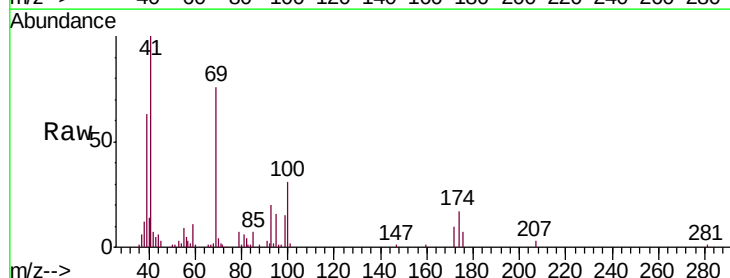
Tgt Ion: 41 Resp: 17104

Ion Ratio Lower Upper

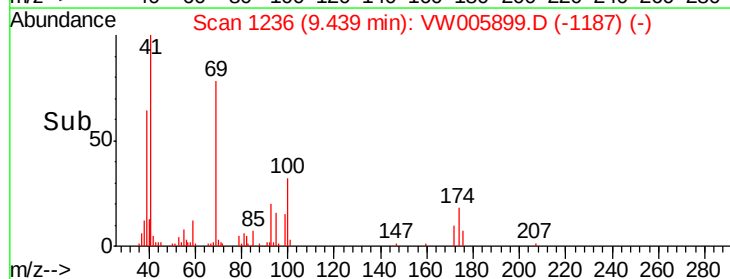
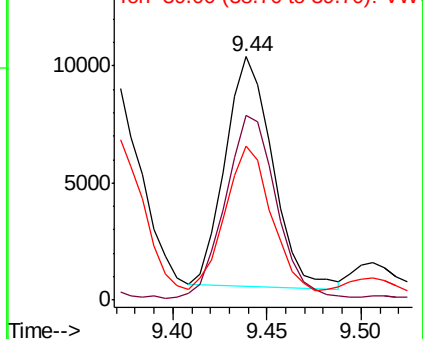
41 100

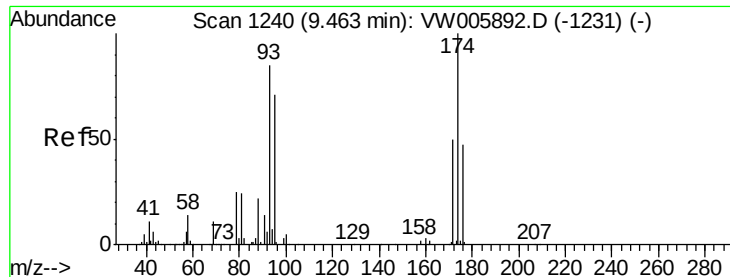
69 85.0 68.7 103.1

39 61.0 50.0 75.0



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





#49

1,4-Dioxane

Concen: 196.545 ug/l

RT: 9.47 min Scan# 1241

Delta R.T. 0.01 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2018

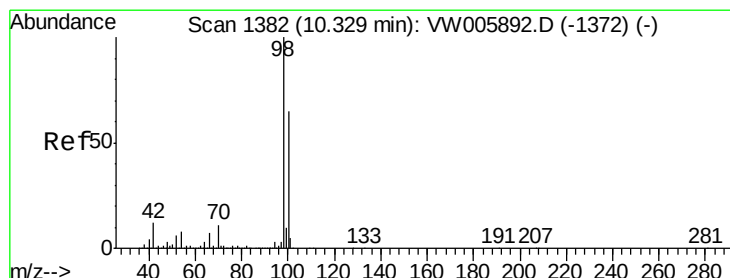
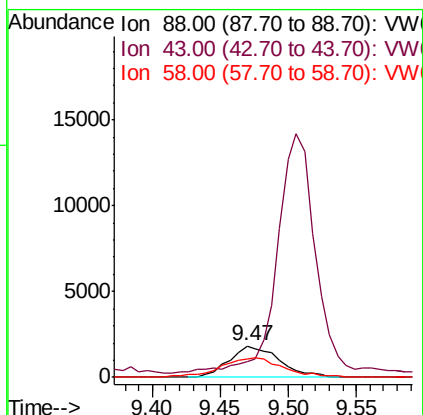
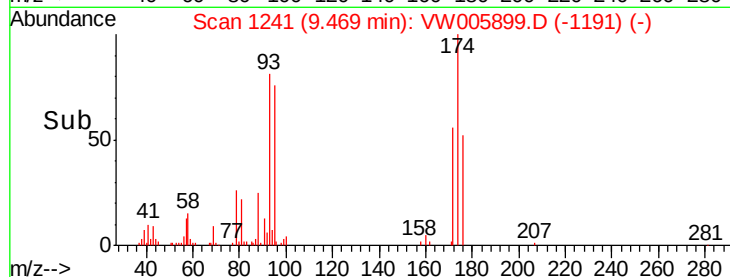
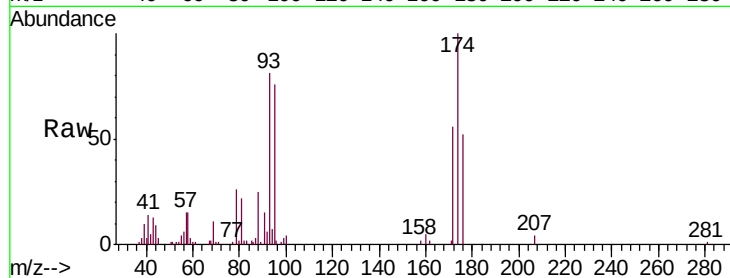
Tgt Ion: 88 Resp: 4705

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 77.7 57.7 86.5



#50

Toluene-d8

Concen: 50.675 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW005899.D

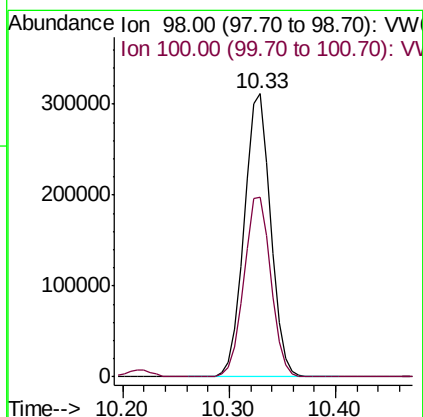
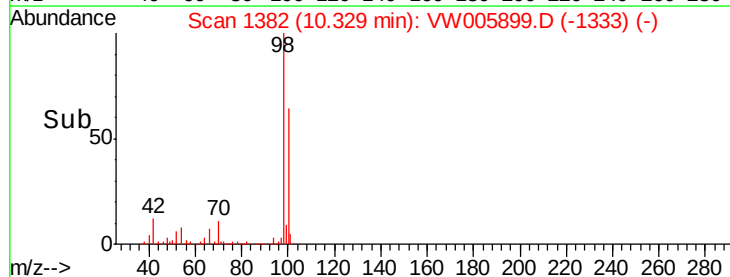
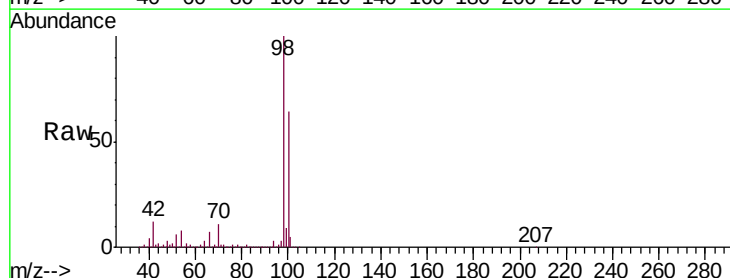
Acq: 08 Oct 2018 16:51

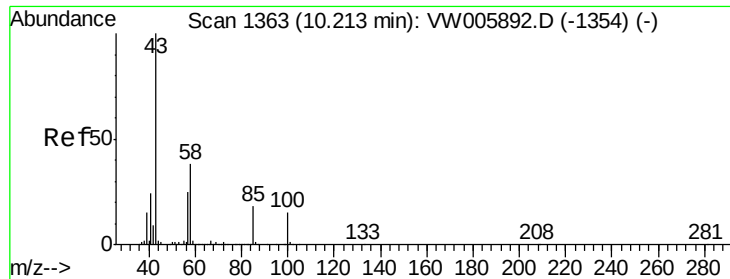
Tgt Ion: 98 Resp: 543739

Ion Ratio Lower Upper

98 100

100 64.8 51.9 77.9





#51

4-Methyl-2-Pentanone

Concen: 50.488 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

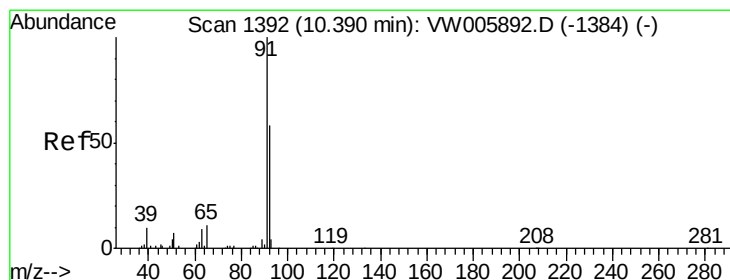
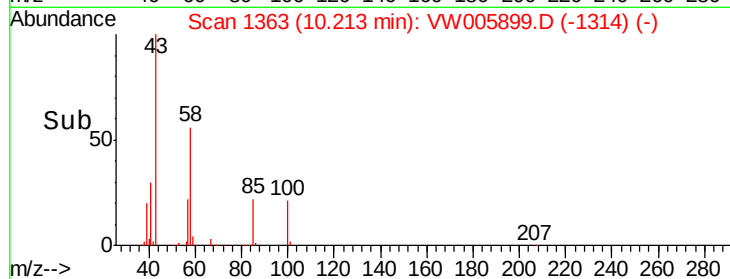
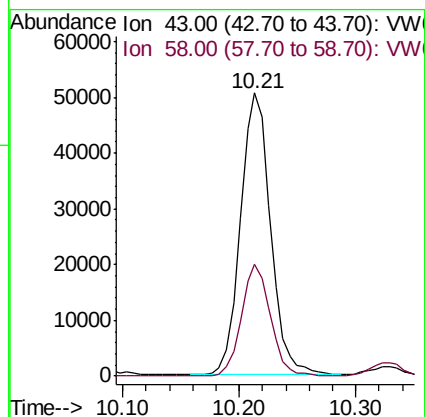
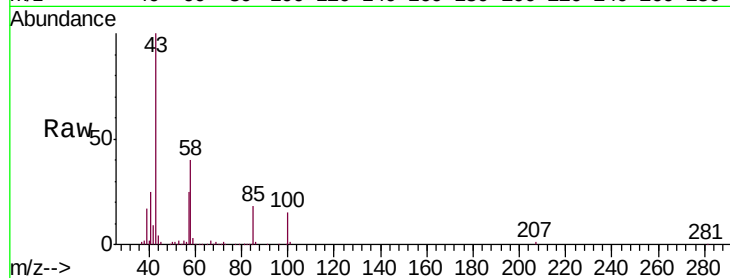
LOQ-SOIL-02-QT4-2018

Tgt Ion: 43 Resp: 91029

Ion Ratio Lower Upper

43 100

58 38.5 30.2 45.4



#52

Toluene

Concen: 9.631 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW005899.D

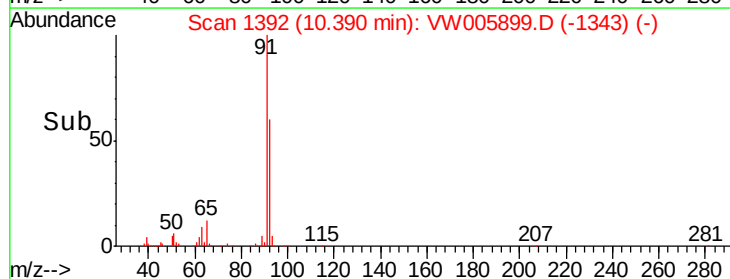
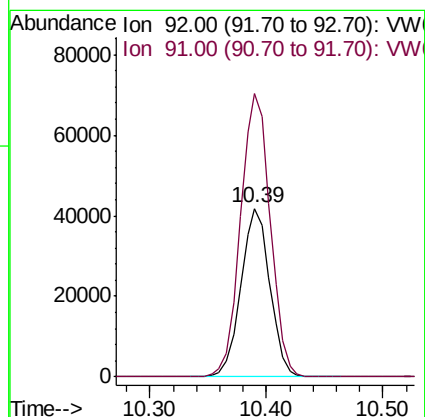
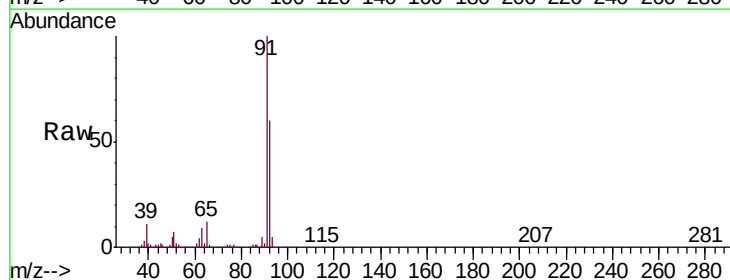
Acq: 08 Oct 2018 16:51

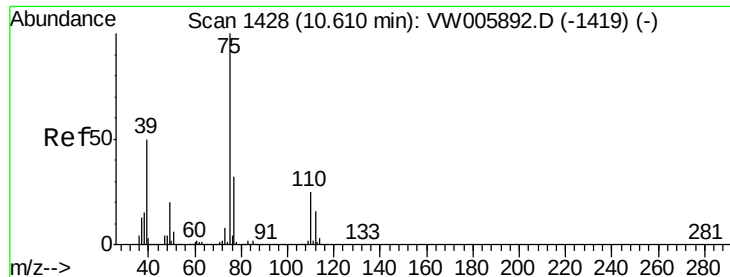
Tgt Ion: 92 Resp: 72477

Ion Ratio Lower Upper

92 100

91 172.2 138.2 207.4





#53

t-1,3-Dichloropropene

Concen: 9.373 ug/l

RT: 10.61 min Scan# 1428

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

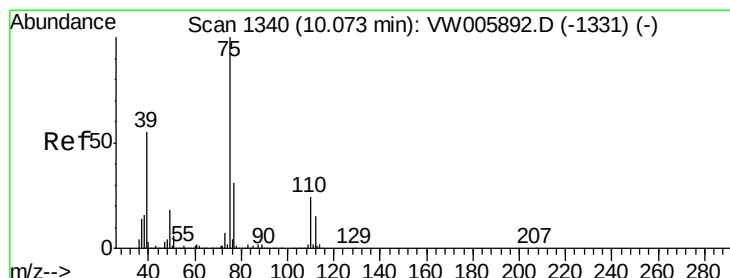
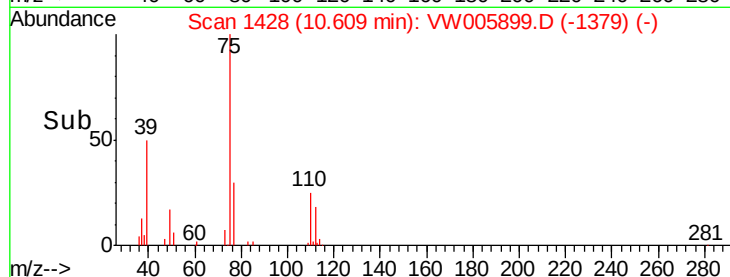
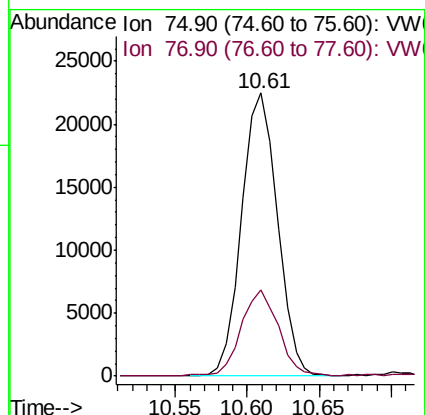
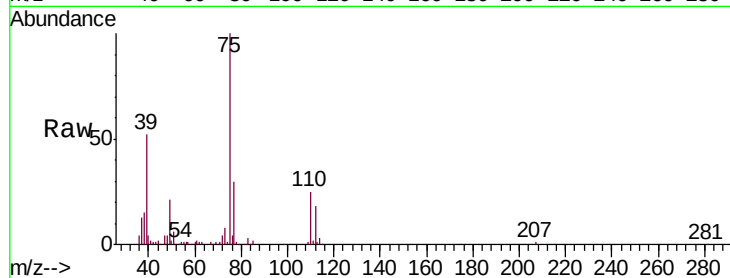
LOQ-SOIL-02-QT4-2018

Tgt Ion: 75 Resp: 38845

Ion Ratio Lower Upper

75 100

77 30.0 25.4 38.2



#54

cis-1,3-Dichloropropene

Concen: 9.426 ug/l

RT: 10.08 min Scan# 1341

Delta R.T. 0.01 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

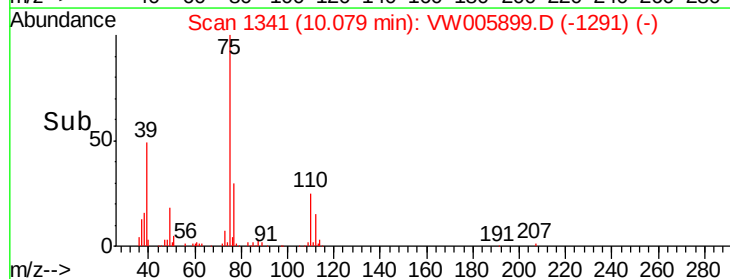
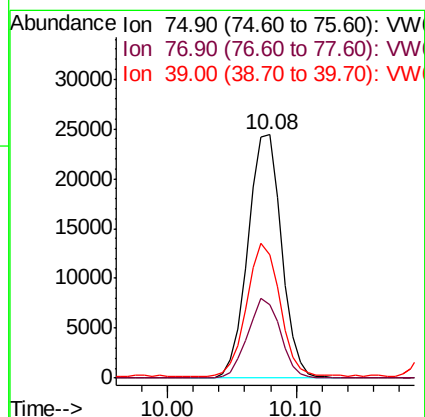
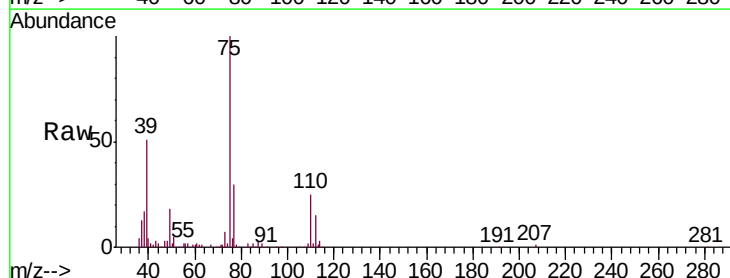
Tgt Ion: 75 Resp: 43913

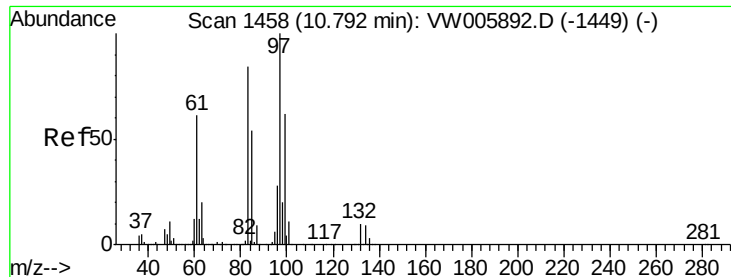
Ion Ratio Lower Upper

75 100

77 30.1 24.6 37.0

39 49.8 44.2 66.4

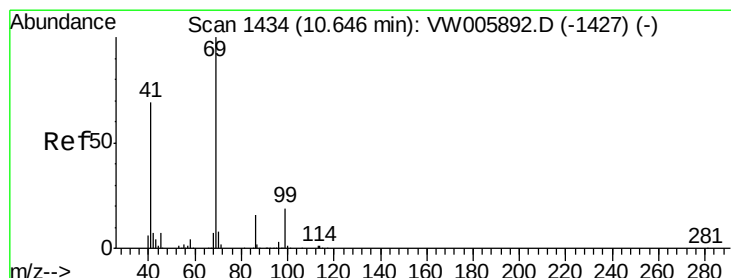
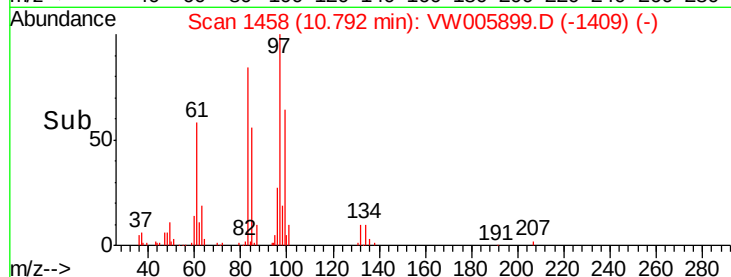
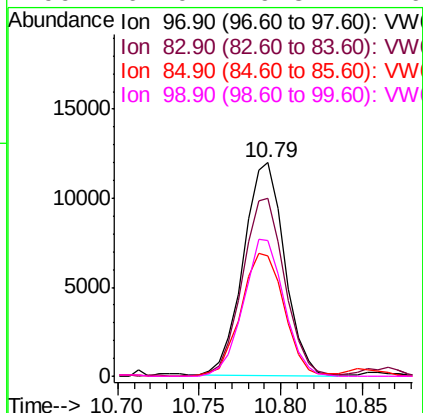
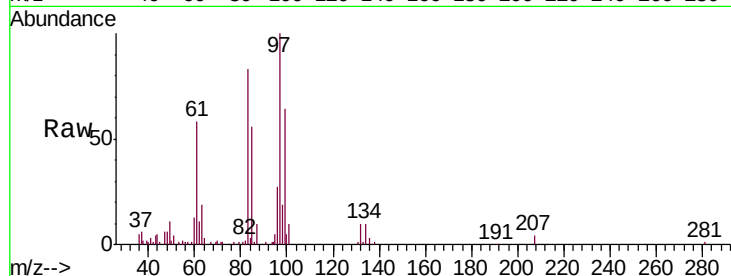




#55
 1,1,2-Trichloroethane
 Concen: 9.613 ug/l
 RT: 10.79 min Scan# 1458
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

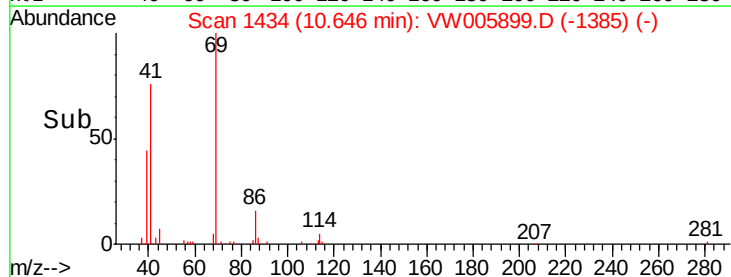
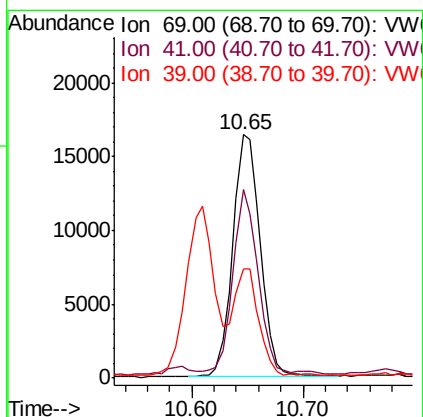
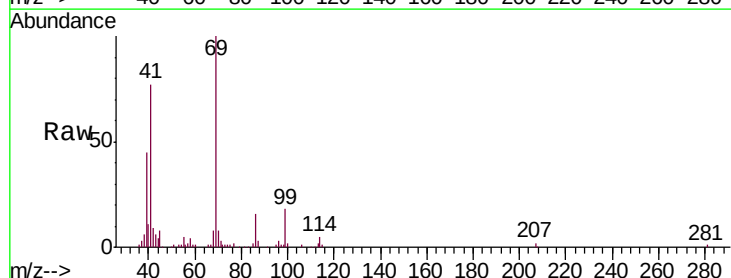
Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

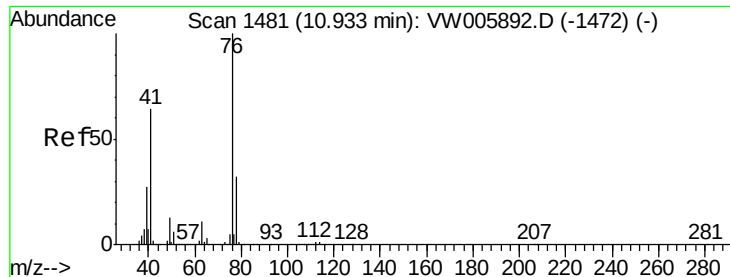
Tgt Ion:	97	Resp:	20984
Ion	Ratio	Lower	Upper
97	100		
83	83.2	66.9	100.3
85	56.8	43.4	65.0
99	64.0	49.8	74.6



#56
 Ethyl methacrylate
 Concen: 9.544 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Tgt Ion:	69	Resp:	28079
Ion	Ratio	Lower	Upper
69	100		
41	68.3	56.0	84.0
39	40.8	33.5	50.3





#57

1,3-Dichloropropane

Concen: 9.593 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

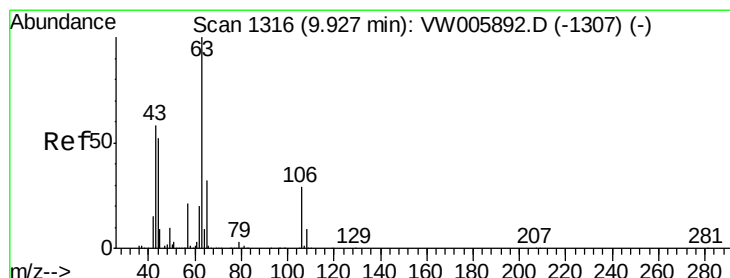
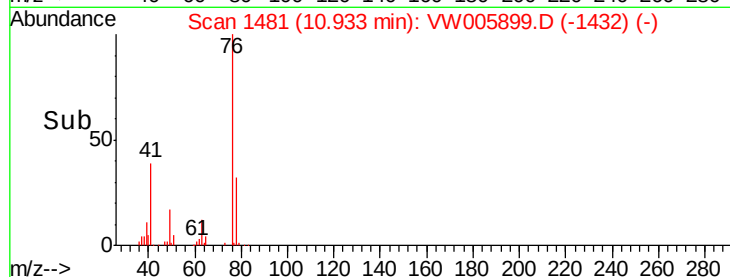
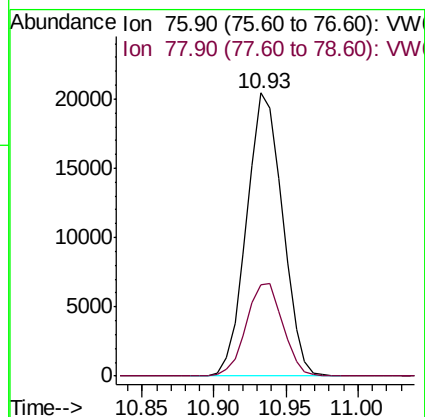
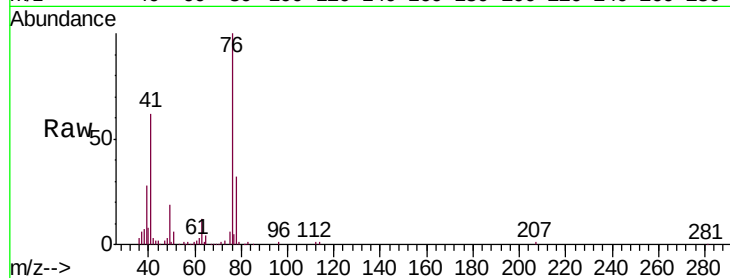
LOQ-SOIL-02-QT4-2018

Tgt Ion: 76 Resp: 35228

Ion Ratio Lower Upper

76 100

78 33.3 25.8 38.6



#58

2-Chloroethyl Vinyl ether

Concen: 48.982 ug/l

RT: 9.93 min Scan# 1316

Delta R.T. -0.00 min

Lab File: VW005899.D

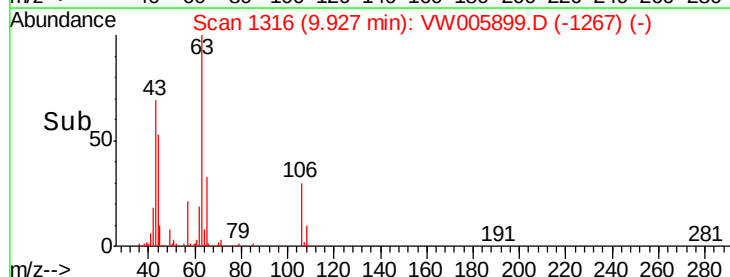
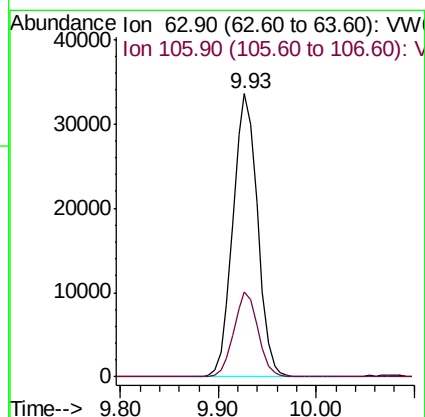
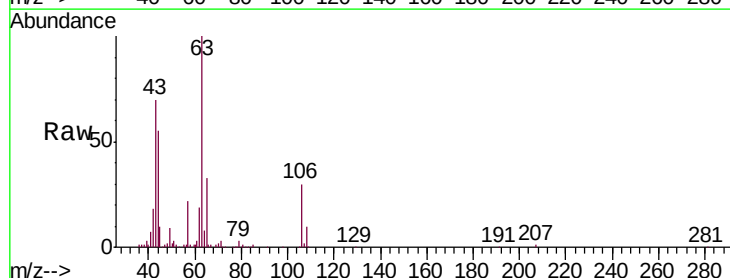
Acq: 08 Oct 2018 16:51

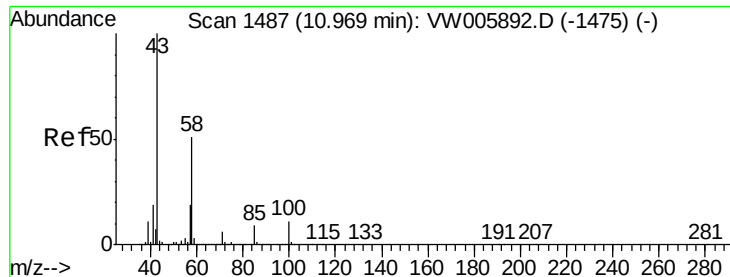
Tgt Ion: 63 Resp: 58636

Ion Ratio Lower Upper

63 100

106 29.2 23.6 35.4

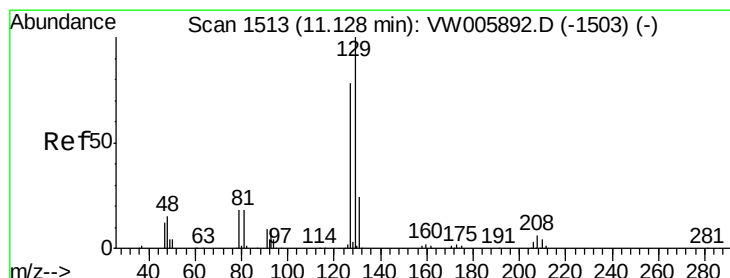
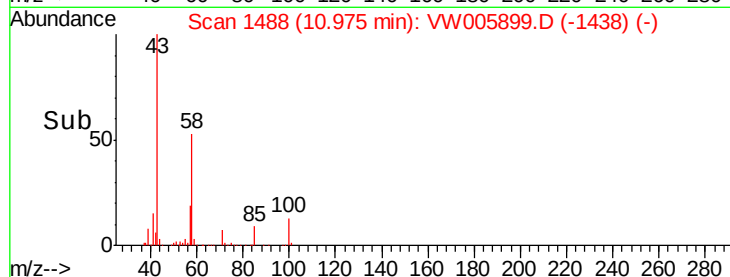
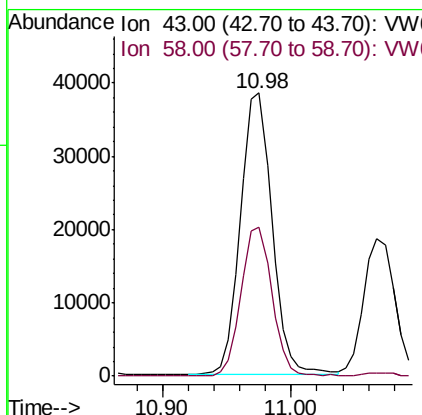
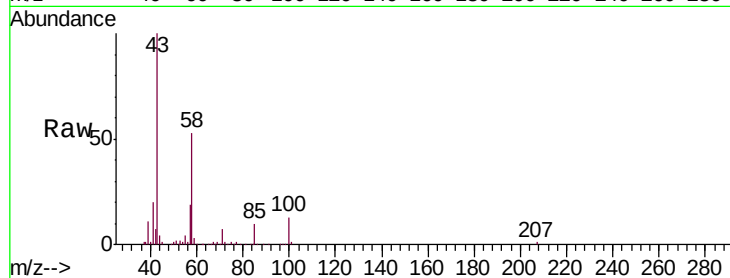




#59
2-Hexanone
Concen: 50.464 ug/l
RT: 10.98 min Scan# 1488
Delta R.T. 0.01 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

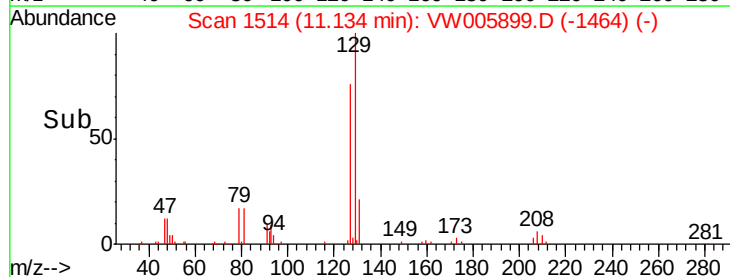
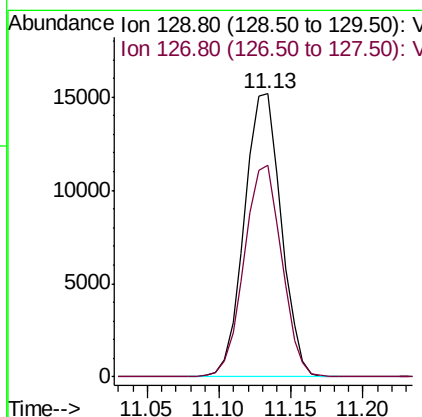
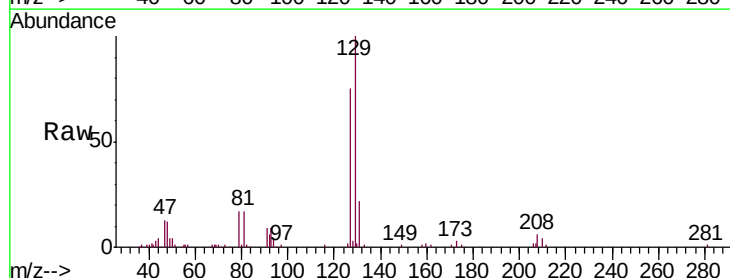
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2018

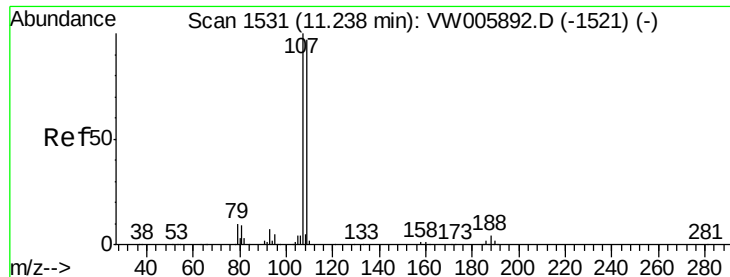
Tgt Ion: 43 Resp: 65238
Ion Ratio Lower Upper
43 100
58 52.3 25.7 77.1



#60
Dibromochloromethane
Concen: 9.535 ug/l
RT: 11.13 min Scan# 1514
Delta R.T. 0.01 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Tgt Ion: 129 Resp: 26858
Ion Ratio Lower Upper
129 100
127 76.2 38.5 115.5





#61

1,2-Dibromoethane

Concen: 9.662 ug/l

RT: 11.24 min Scan# 1531

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

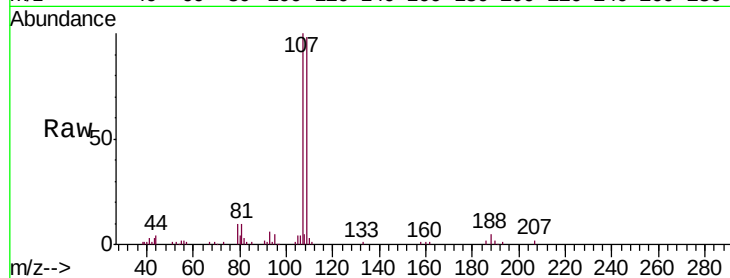
LOQ-SOIL-02-QT4-2018

Tgt Ion: 107 Resp: 21075

Ion Ratio Lower Upper

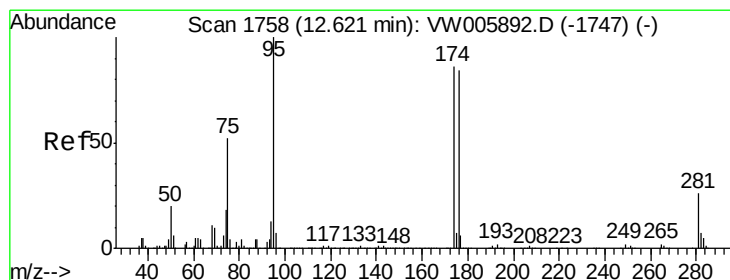
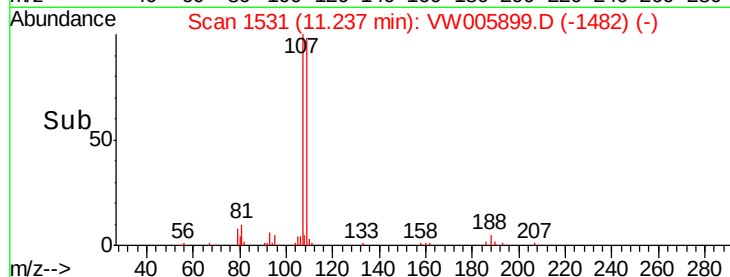
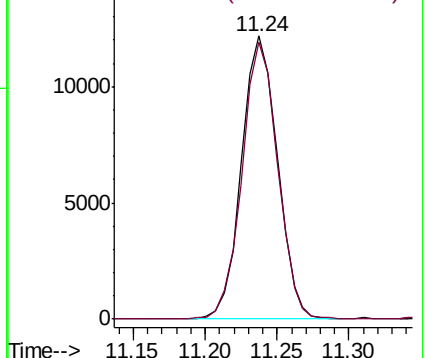
107 100

109 96.8 75.8 113.8



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 49.303 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

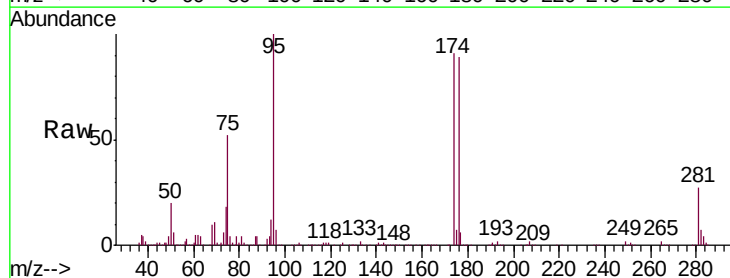
Tgt Ion: 95 Resp: 201272

Ion Ratio Lower Upper

95 100

174 92.0 0.0 176.4

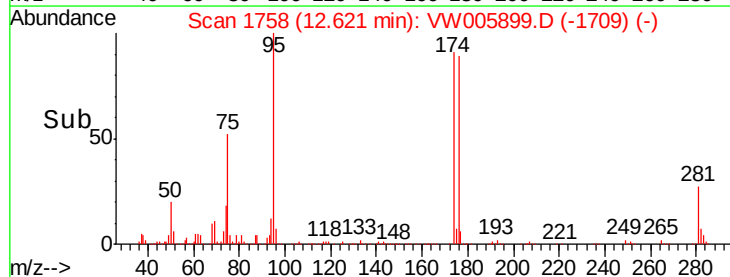
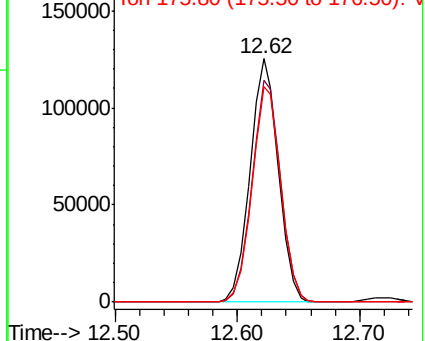
176 89.8 0.0 173.0

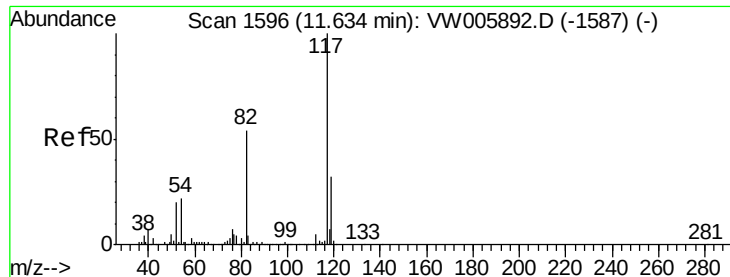


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

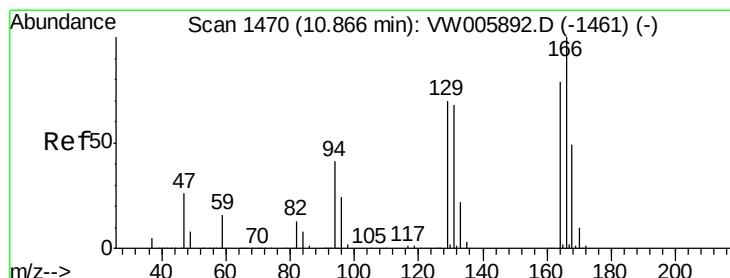
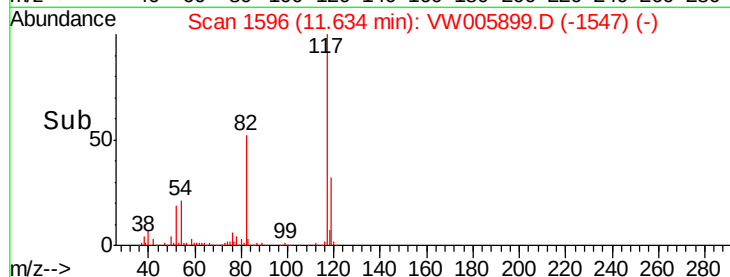
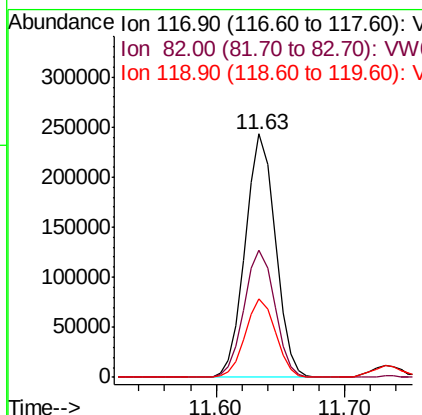
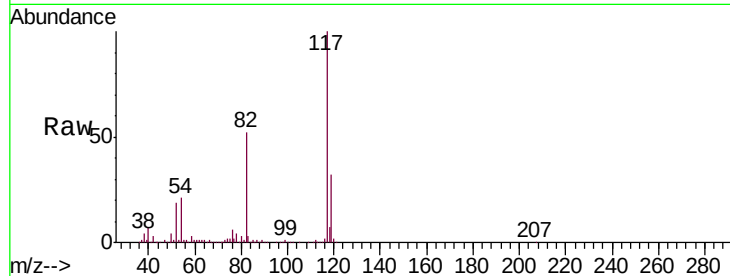




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

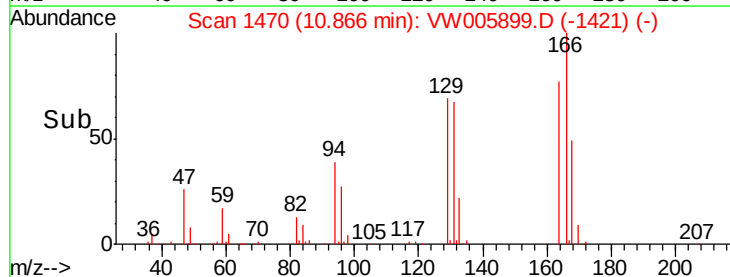
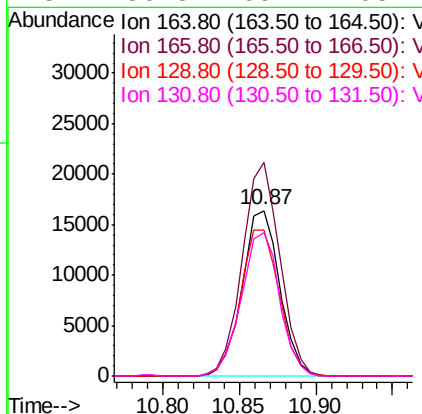
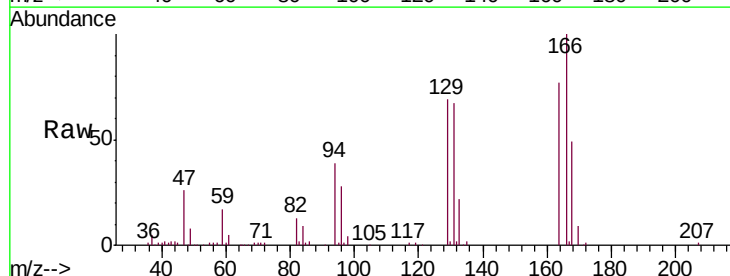
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2018

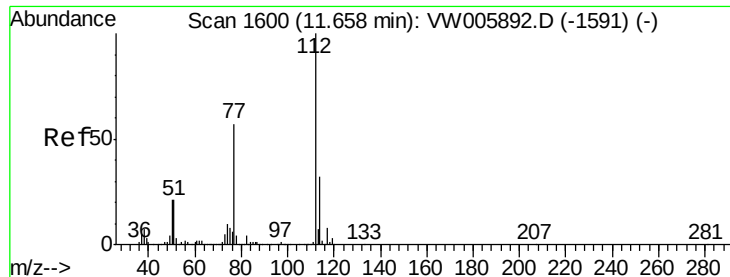
Tgt Ion:117 Resp: 393273
Ion Ratio Lower Upper
117 100
82 52.2 43.5 65.3
119 32.1 25.4 38.2



#64
Tetrachloroethene
Concen: 9.545 ug/l
RT: 10.87 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Tgt Ion:164 Resp: 27963
Ion Ratio Lower Upper
164 100
166 129.1 101.5 152.3
129 88.5 71.1 106.7
131 86.3 69.1 103.7





#65

Chlorobenzene

Concen: 9.680 ug/l

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

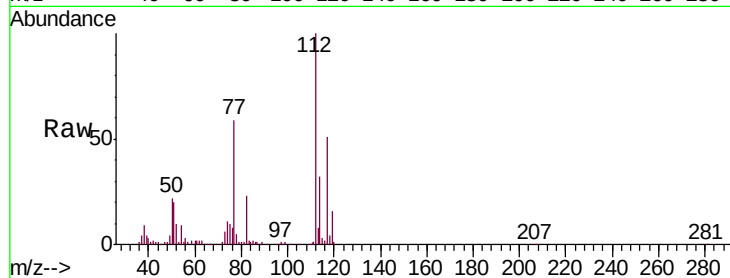
LOQ-SOIL-02-QT4-2018

Tgt Ion:112 Resp: 81547

Ion Ratio Lower Upper

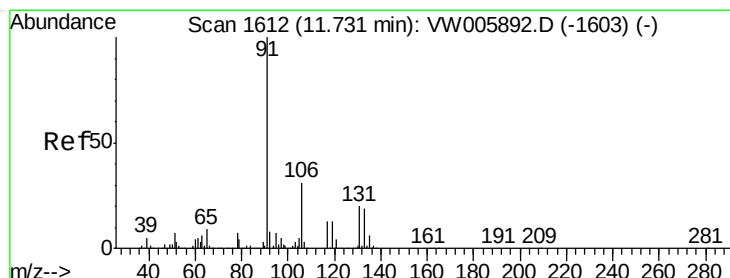
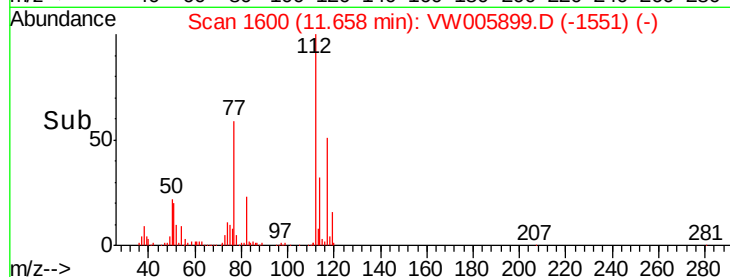
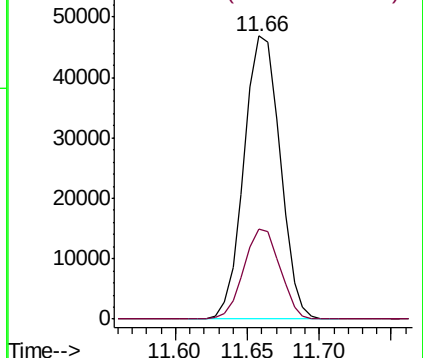
112 100

114 32.0 25.6 38.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 9.740 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

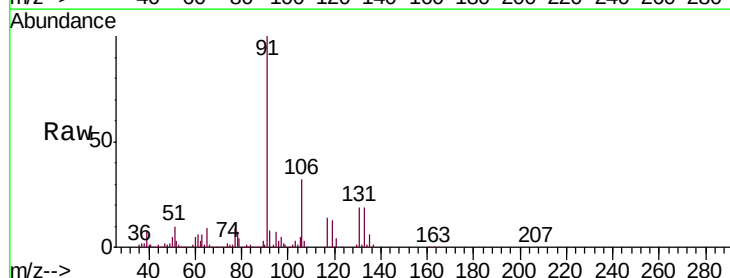
Tgt Ion:131 Resp: 30075

Ion Ratio Lower Upper

131 100

133 94.2 48.2 144.6

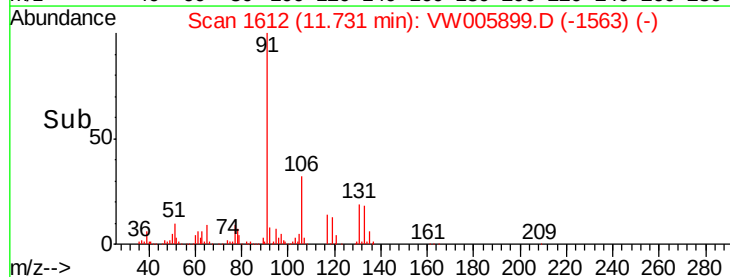
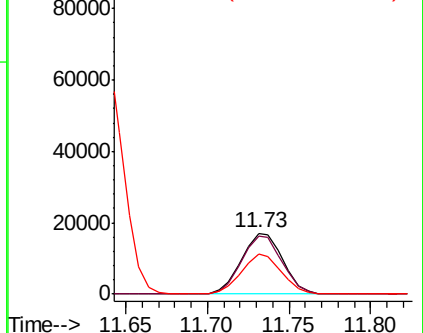
119 64.6 32.5 97.5

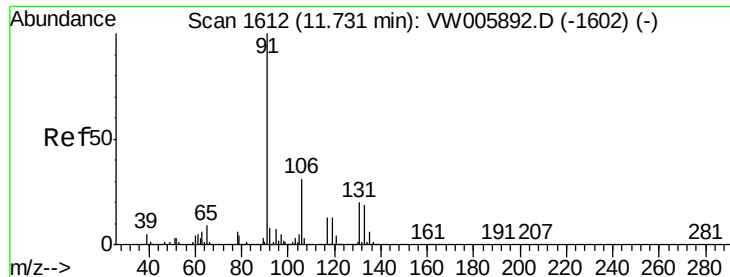


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

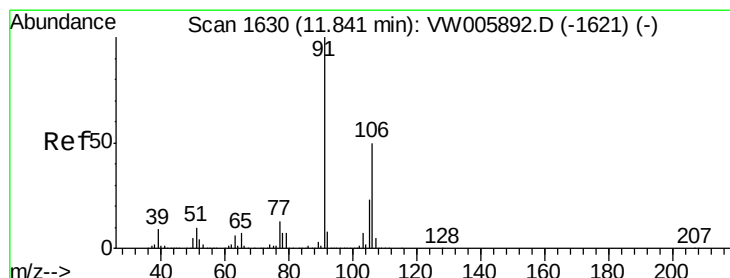
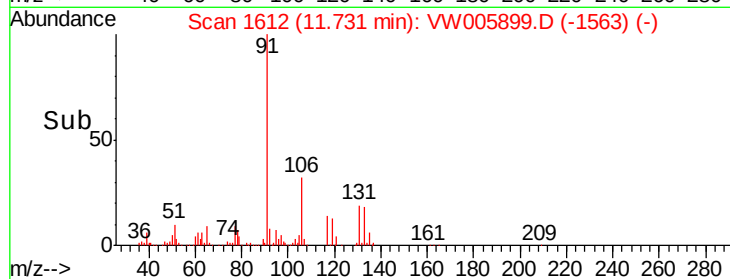
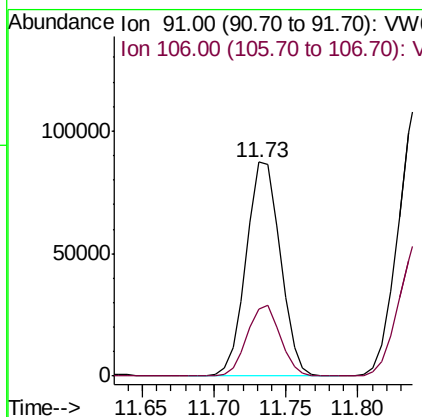
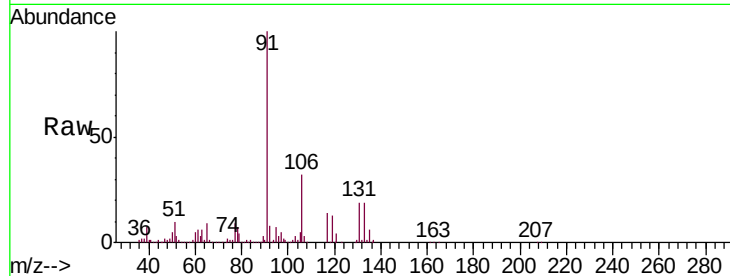




#67
Ethyl Benzene
Concen: 9.624 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

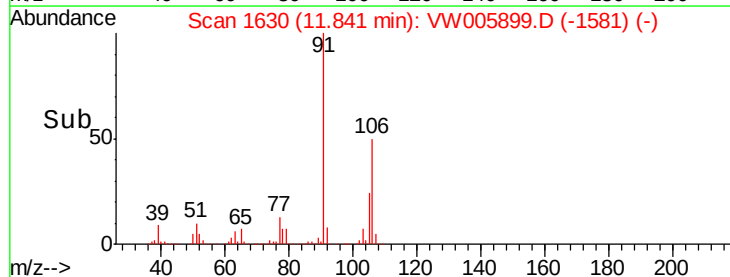
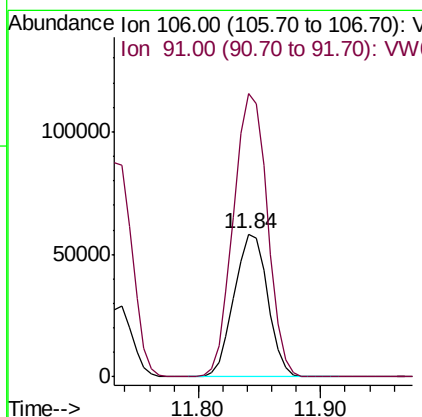
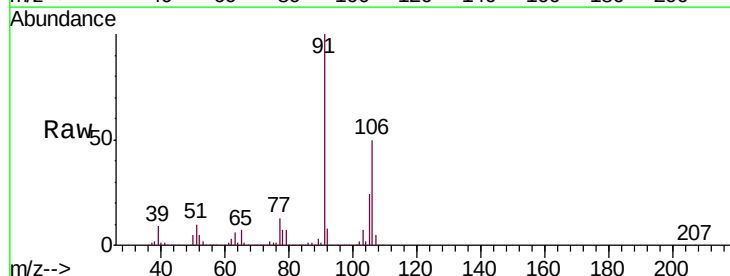
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2018

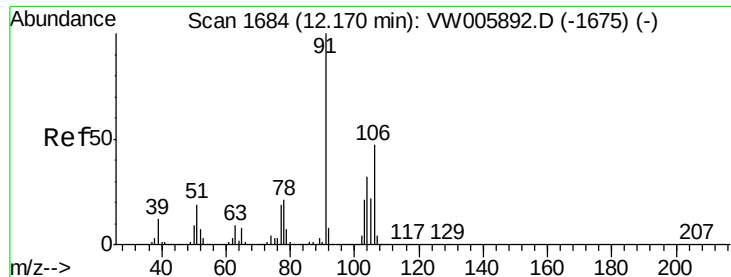
Tgt Ion: 91 Resp: 143196
Ion Ratio Lower Upper
91 100
106 31.6 25.0 37.6



#68
m/p-Xylenes
Concen: 19.088 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Tgt Ion: 106 Resp: 110995
Ion Ratio Lower Upper
106 100
91 200.9 160.2 240.2

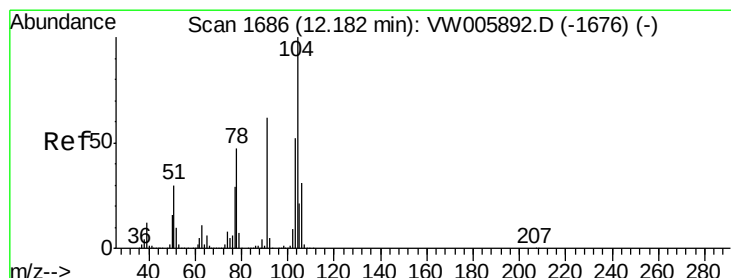
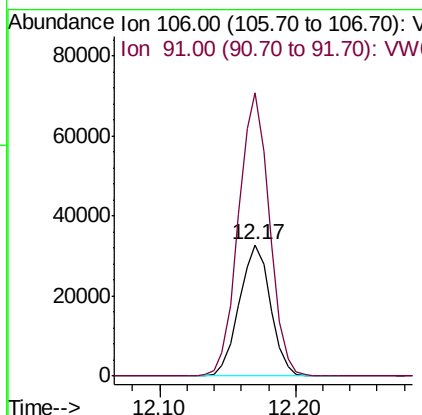
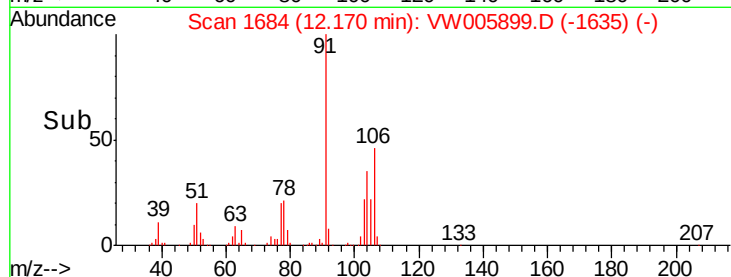
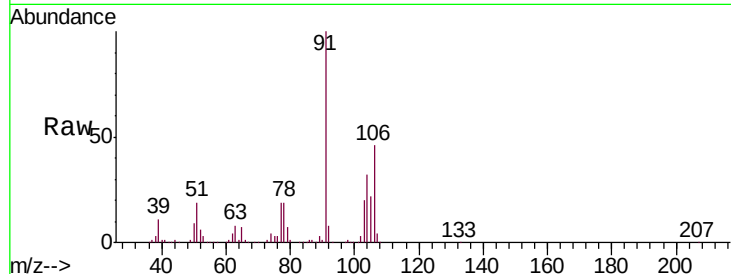




#69
o-Xylene
Concen: 9.443 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

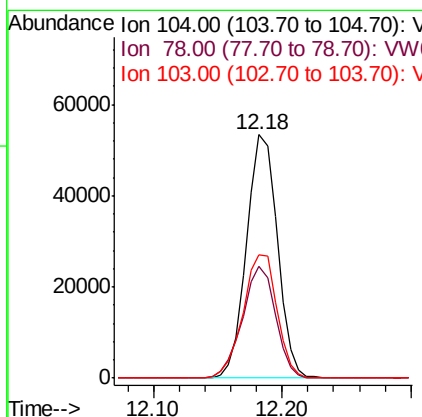
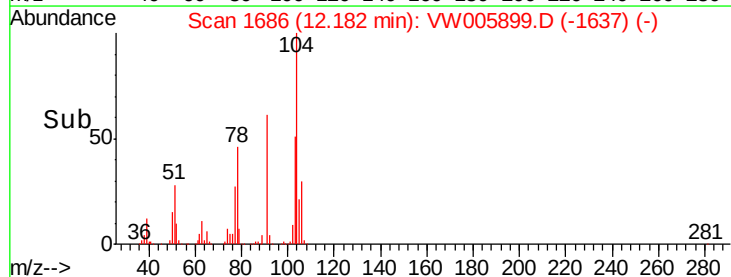
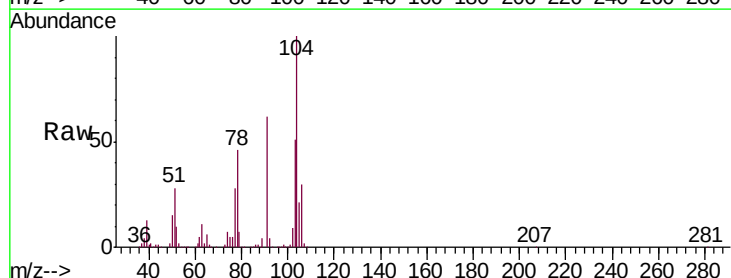
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2018

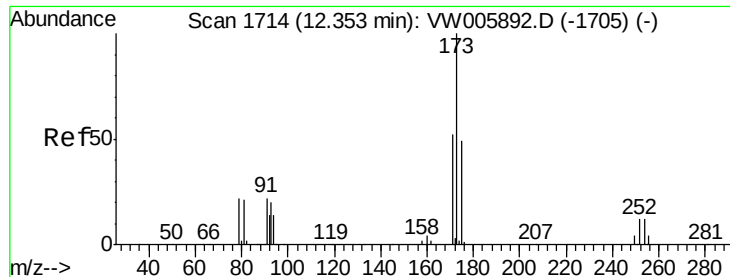
Tgt Ion:106 Resp: 52569
Ion Ratio Lower Upper
106 100
91 214.3 106.2 318.5



#70
Styrene
Concen: 9.550 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Tgt Ion:104 Resp: 88208
Ion Ratio Lower Upper
104 100
78 49.5 40.4 60.6
103 55.9 44.2 66.2





#71

Bromoform

Concen: 9.421 ug/l

RT: 12.35 min Scan# 1714

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2018

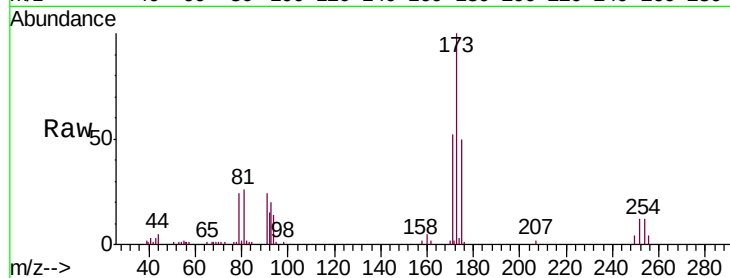
Tgt Ion:173 Resp: 17328

Ion Ratio Lower Upper

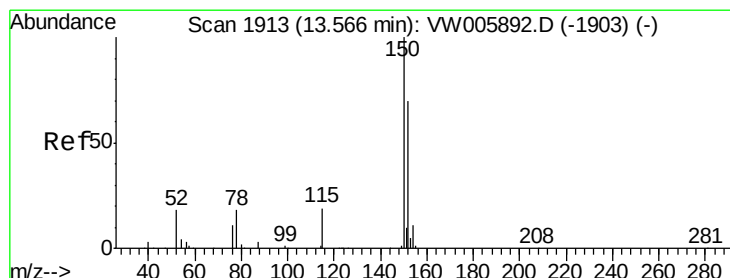
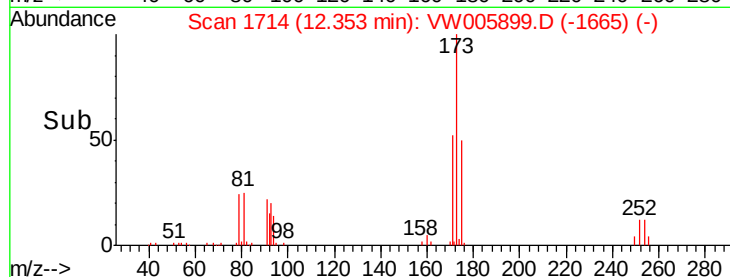
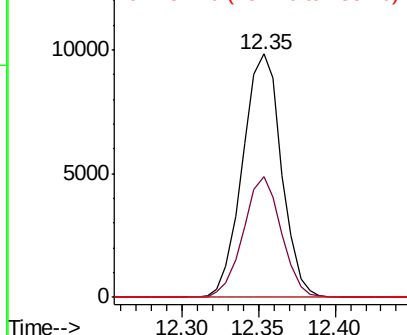
173 100

175 48.6 24.7 74.1

254 0.0 0.2 0.2#



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: 13.57 min Scan# 1913

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

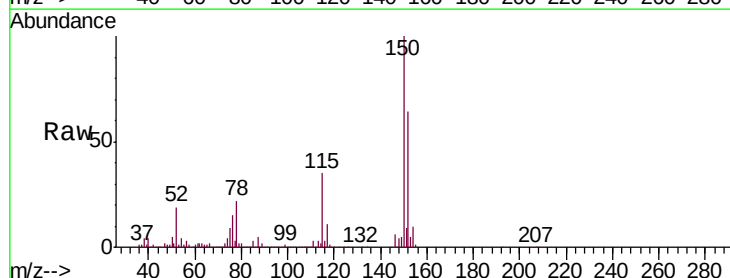
Tgt Ion:152 Resp: 218308

Ion Ratio Lower Upper

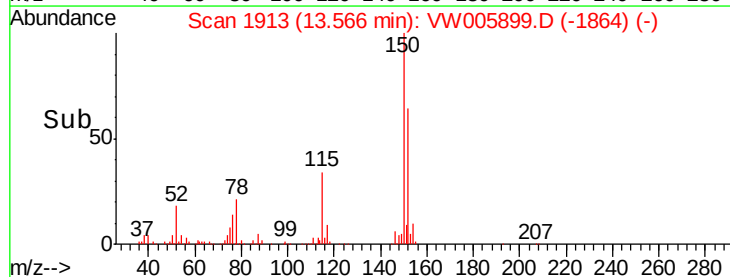
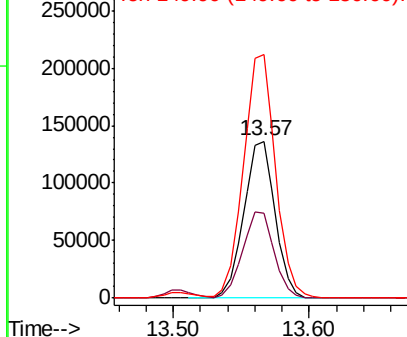
152 100

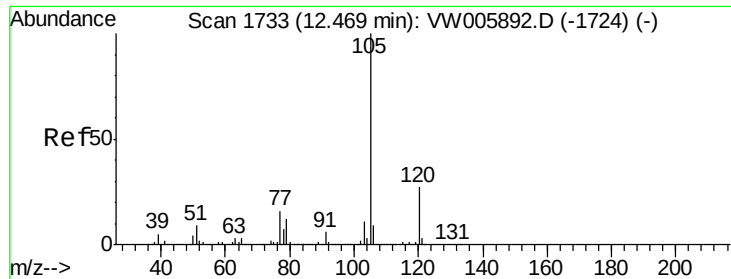
115 55.3 28.3 85.0

150 159.3 0.0 349.2



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

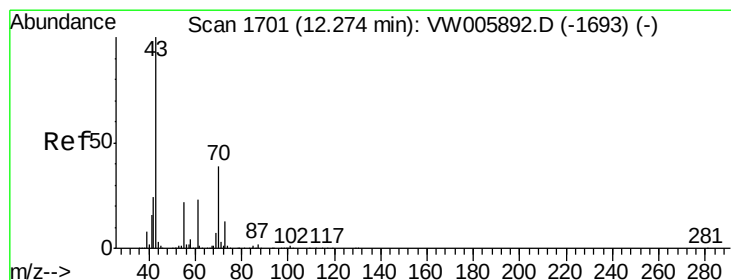
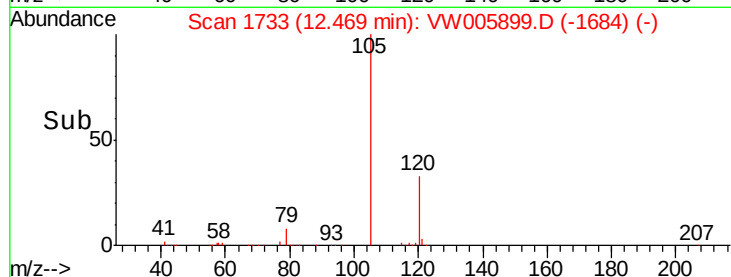
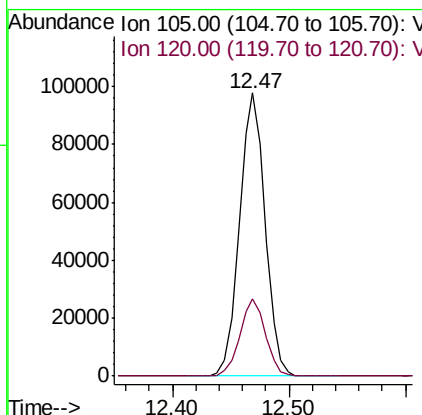
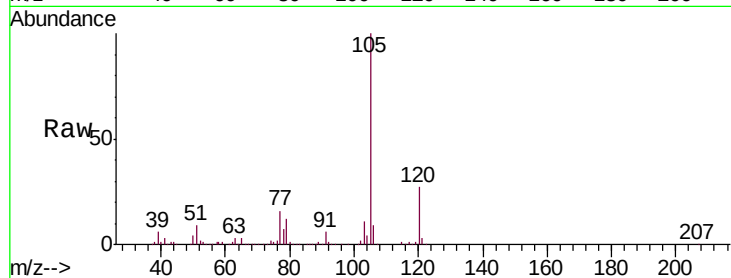




#73
Isopropylbenzene
Concen: 9.387 ug/l
RT: 12.47 min Scan# 1733
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

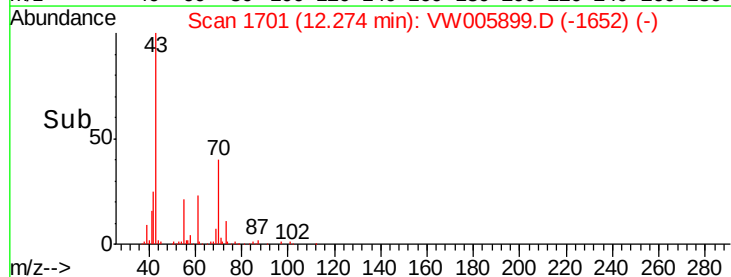
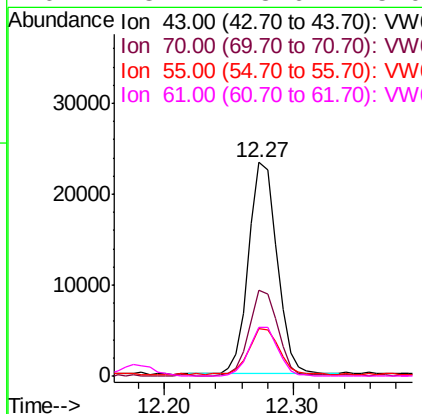
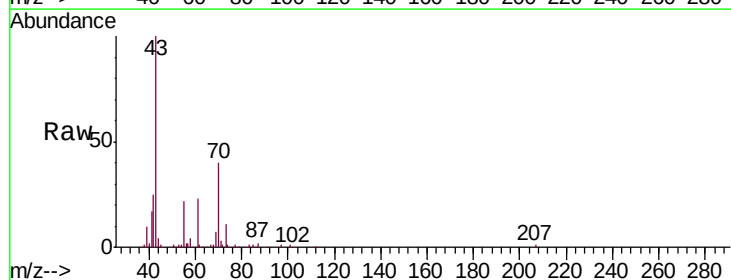
Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2018

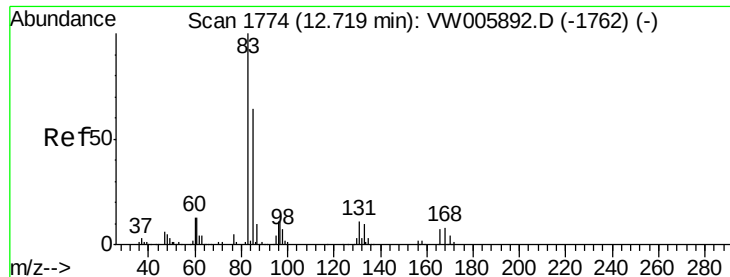
Tgt Ion: 105 Resp: 149658
Ion Ratio Lower Upper
105 100
120 27.2 13.6 40.8



#74
N-ethyl acetate
Concen: 9.328 ug/l
RT: 12.27 min Scan# 1701
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Tgt Ion: 43 Resp: 35321
Ion Ratio Lower Upper
43 100
70 40.2 31.6 47.4
55 24.1 17.9 26.9
61 23.4 18.6 28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 9.719 ug/l

RT: 12.72 min Scan# 1774

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2018

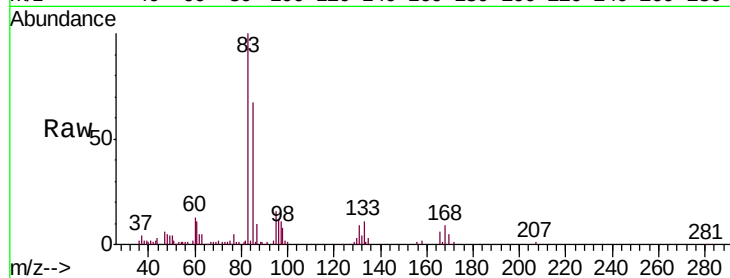
Tgt Ion: 83 Resp: 25399

Ion Ratio Lower Upper

83 100

131 11.7 5.8 17.3

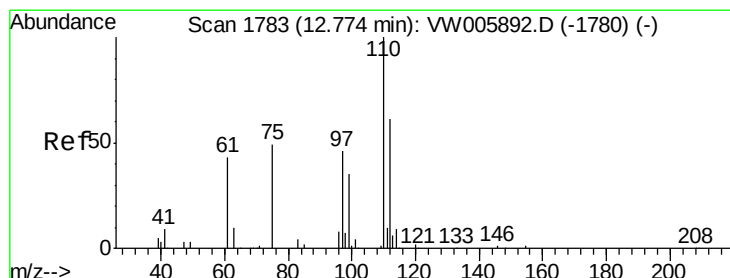
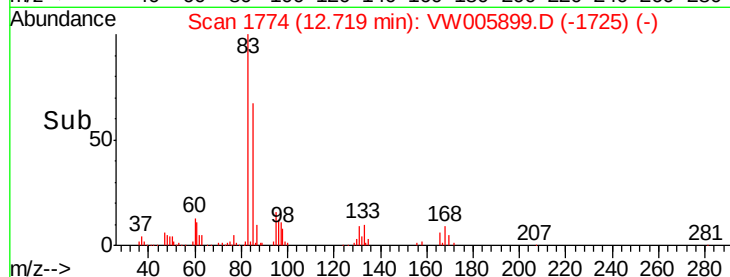
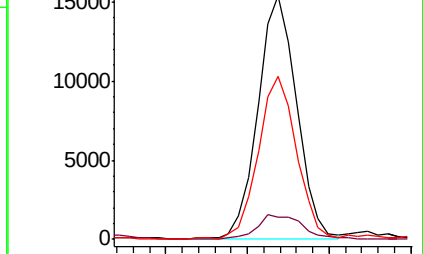
85 66.0 32.4 97.0



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 17.615 ug/l

RT: 12.77 min Scan# 1783

Delta R.T. -0.00 min

Lab File: VW005899.D

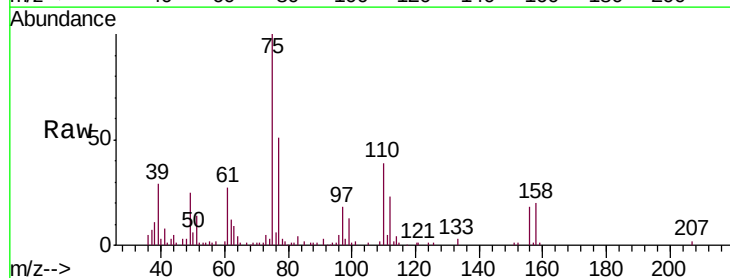
Acq: 08 Oct 2018 16:51

Tgt Ion: 75 Resp: 34351

Ion Ratio Lower Upper

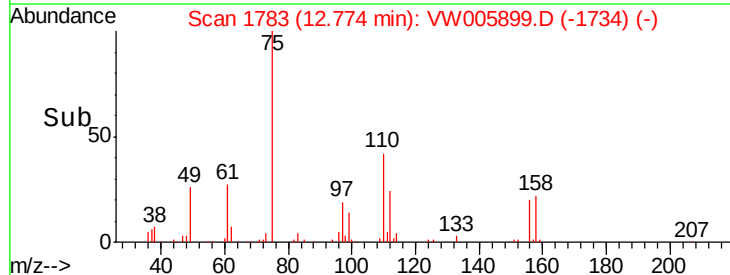
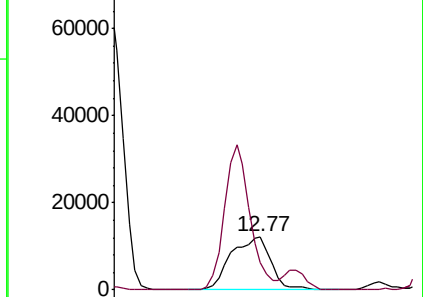
75 100

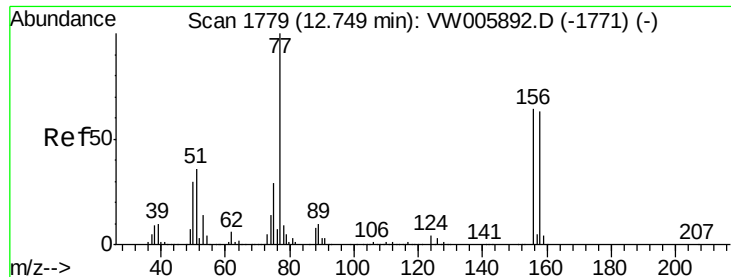
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 9.765 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2018

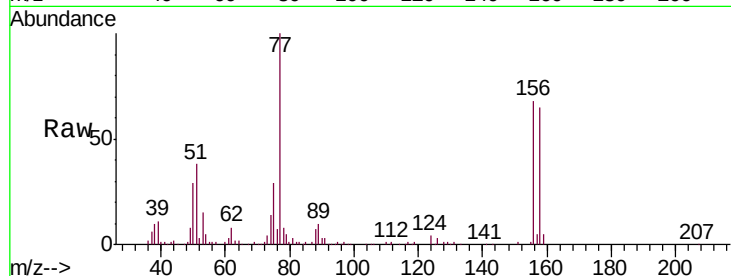
Tgt Ion:156 Resp: 36886

Ion Ratio Lower Upper

156 100

77 165.6 85.8 257.4

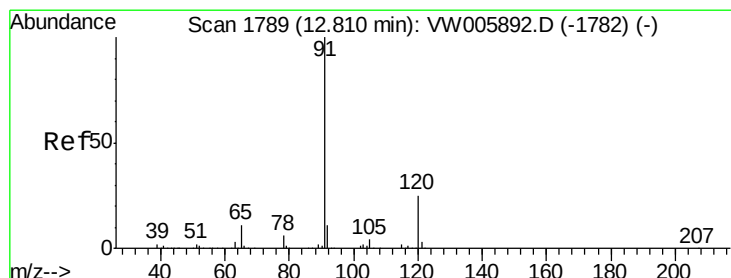
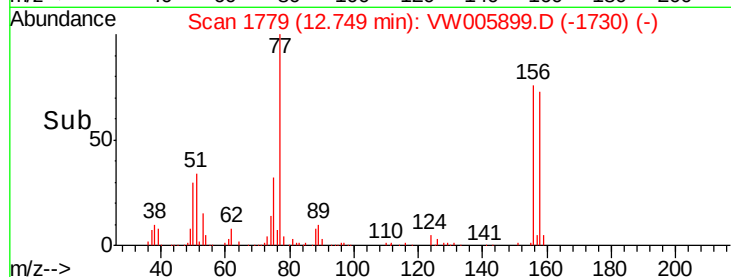
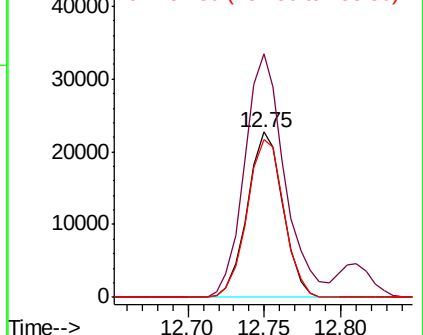
158 98.2 49.1 147.4



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 9.505 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VW005899.D

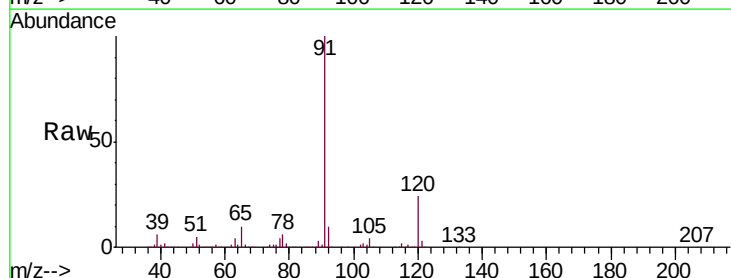
Acq: 08 Oct 2018 16:51

Tgt Ion: 91 Resp: 178267

Ion Ratio Lower Upper

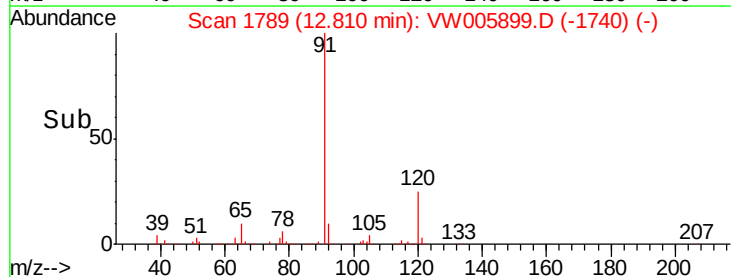
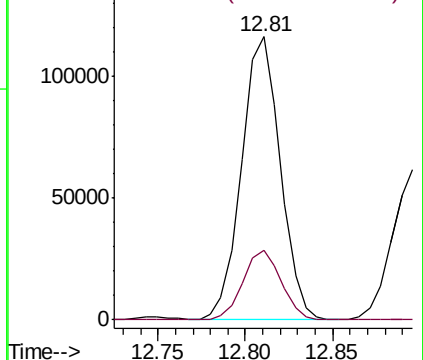
91 100

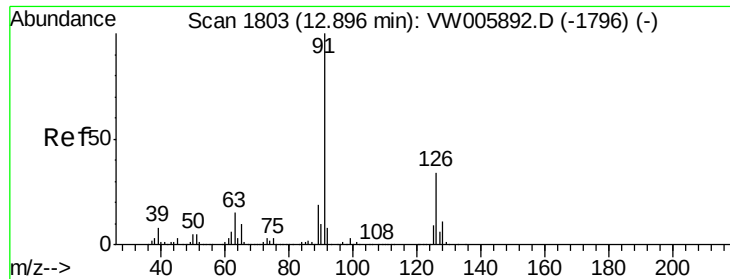
120 24.6 12.0 36.0



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 9.346 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

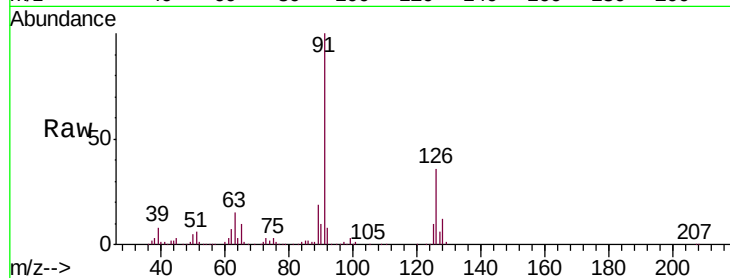
LOQ-SOIL-02-QT4-2018

Tgt Ion: 91 Resp: 98946

Ion Ratio Lower Upper

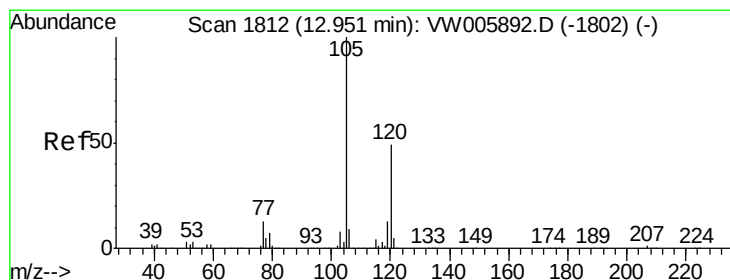
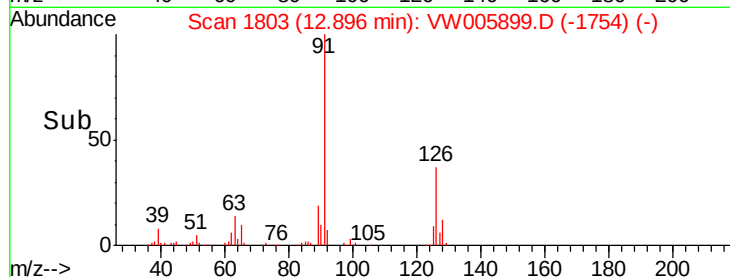
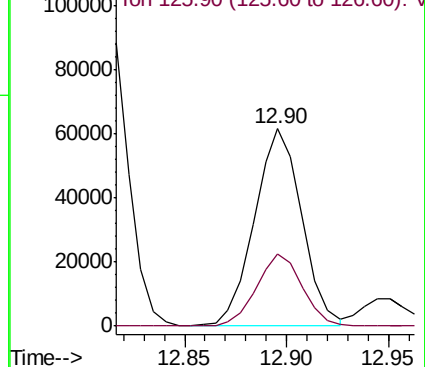
91 100

126 35.7 17.5 52.5



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 9.415 ug/l

RT: 12.95 min Scan# 1812

Delta R.T. -0.00 min

Lab File: VW005899.D

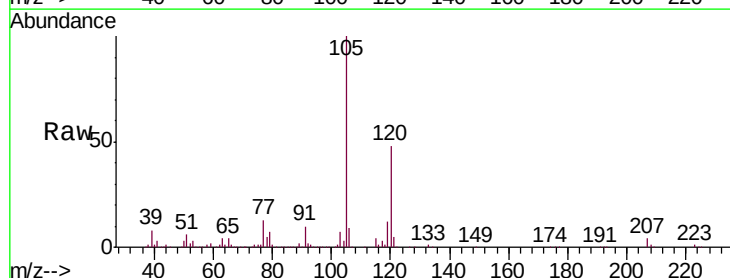
Acq: 08 Oct 2018 16:51

Tgt Ion: 105 Resp: 126726

Ion Ratio Lower Upper

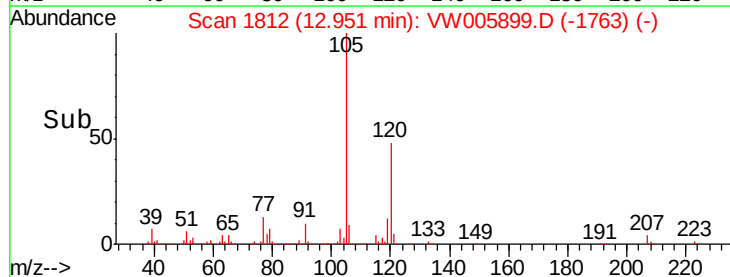
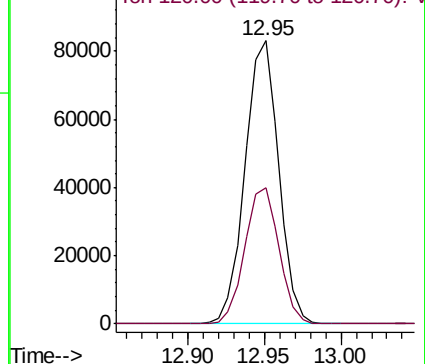
105 100

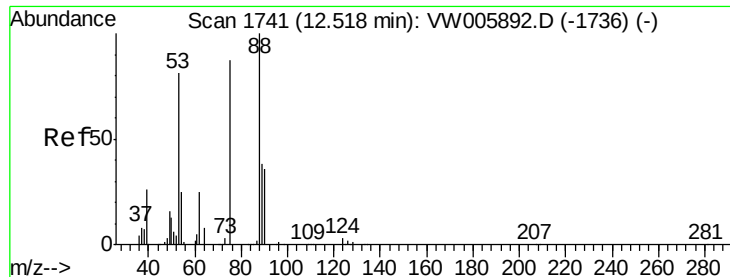
120 48.7 24.6 73.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 9.084 ug/l

RT: 12.52 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2018

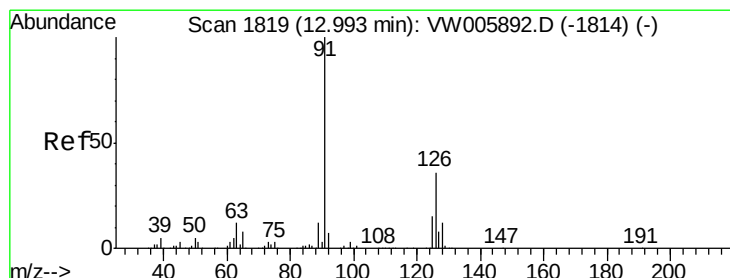
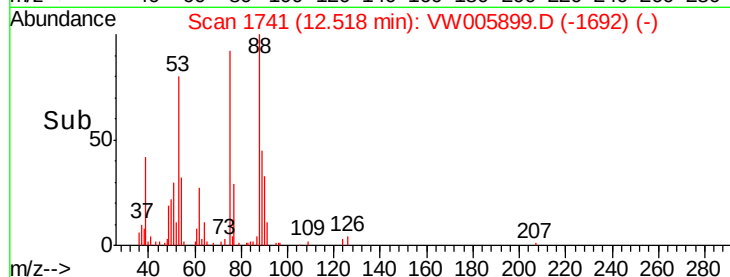
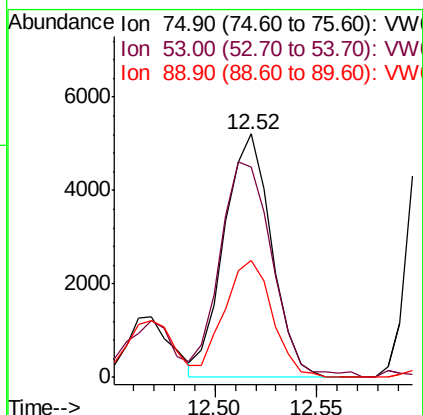
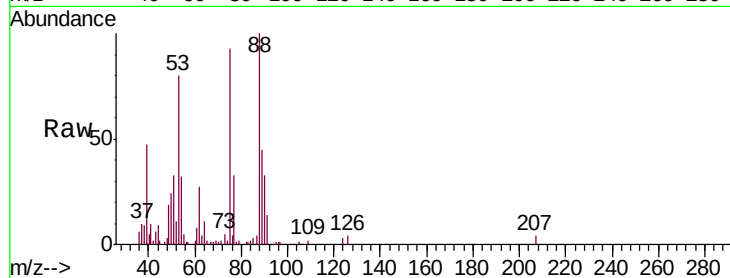
Tgt Ion: 75 Resp: 8391

Ion Ratio Lower Upper

75 100

53 97.8 76.5 114.7

89 49.3 37.6 56.4



#82

4-Chlorotoluene

Concen: 9.387 ug/l

RT: 12.99 min Scan# 1819

Delta R.T. -0.00 min

Lab File: VW005899.D

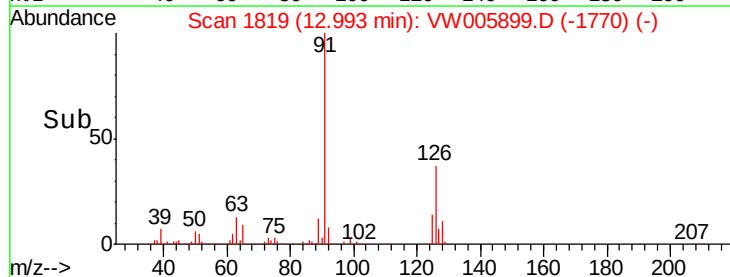
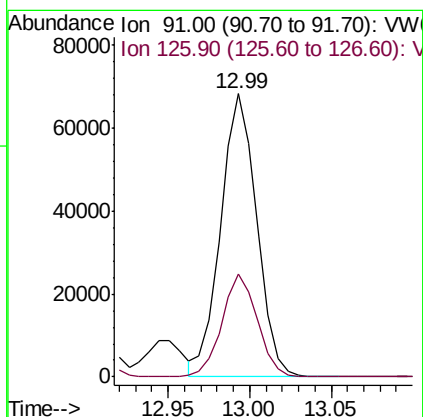
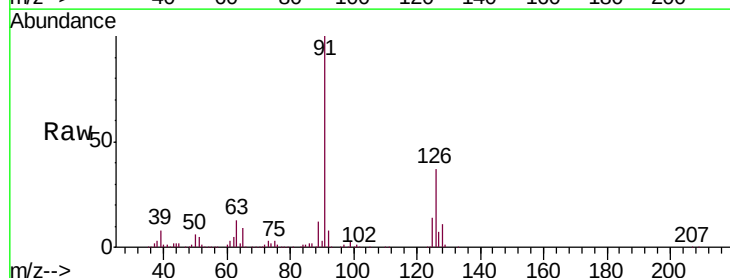
Acq: 08 Oct 2018 16:51

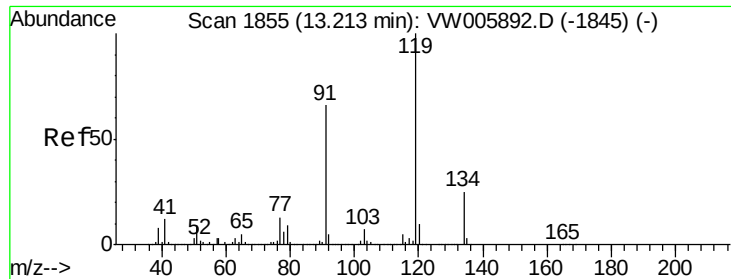
Tgt Ion: 91 Resp: 104567

Ion Ratio Lower Upper

91 100

126 35.7 17.4 52.2

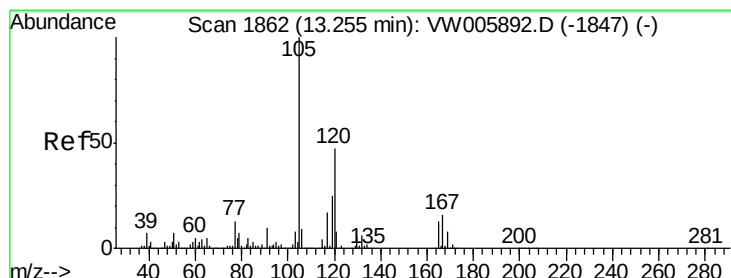
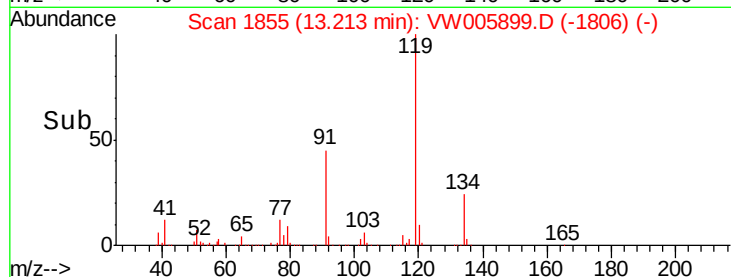
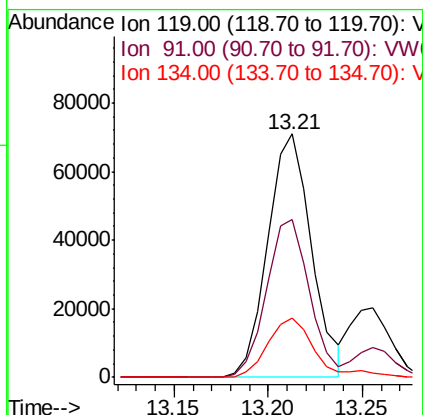
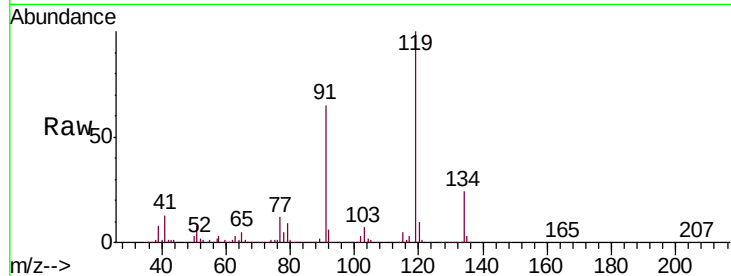




#83
 tert-Butylbenzene
 Concen: 9.552 ug/l
 RT: 13.21 min Scan# 1855
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

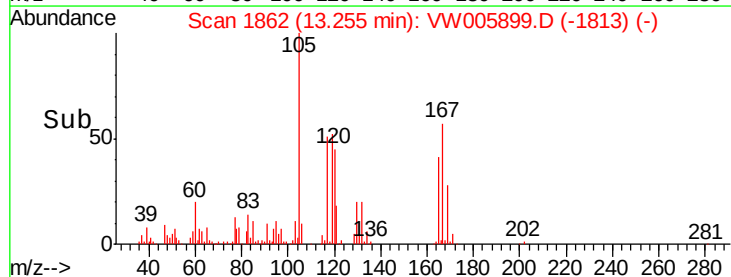
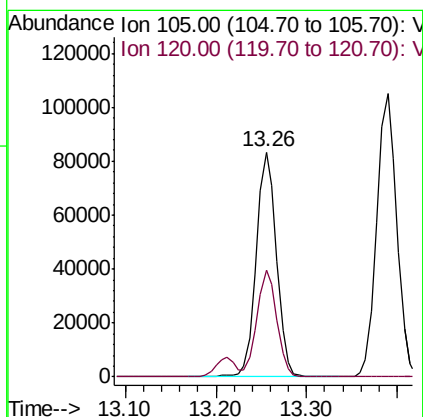
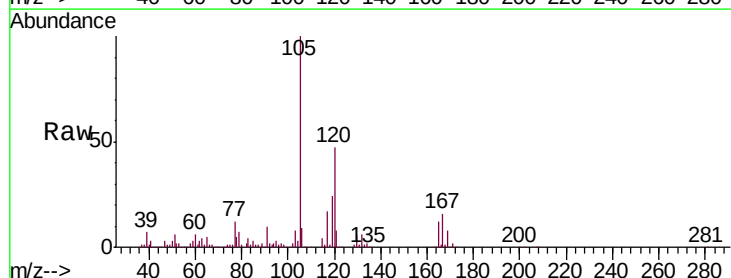
Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

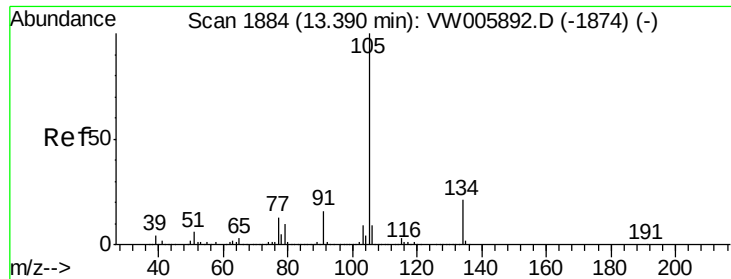
Tgt Ion:119 Resp: 114356
 Ion Ratio Lower Upper
 119 100
 91 63.7 32.4 97.0
 134 26.4 13.2 39.6



#84
 1,2,4-Trimethylbenzene
 Concen: 9.453 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Tgt Ion:105 Resp: 128343
 Ion Ratio Lower Upper
 105 100
 120 46.2 22.8 68.3

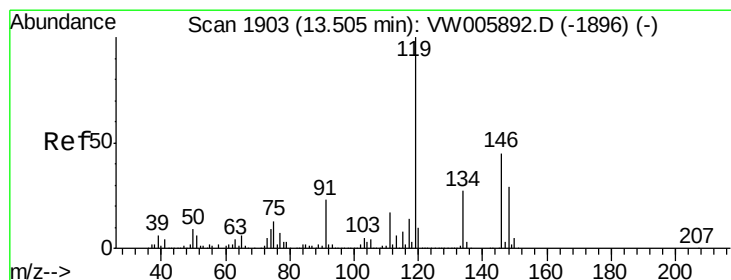
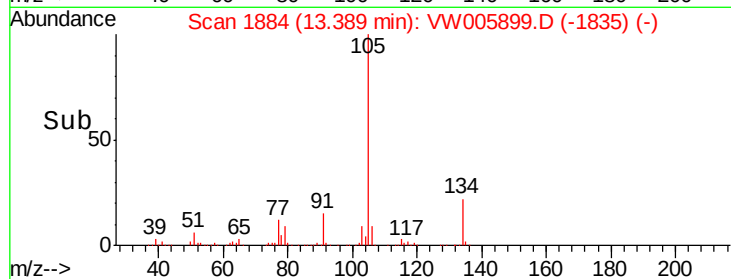
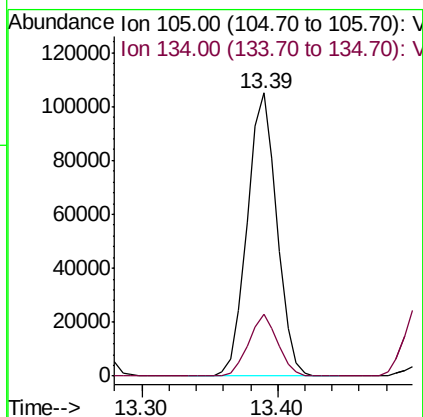
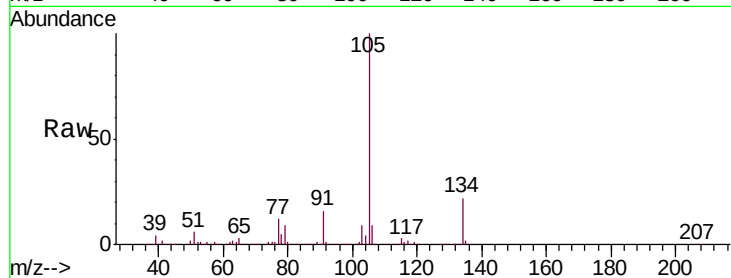




#85
 sec-Butylbenzene
 Concen: 9.555 ug/l
 RT: 13.39 min Scan# 1884
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

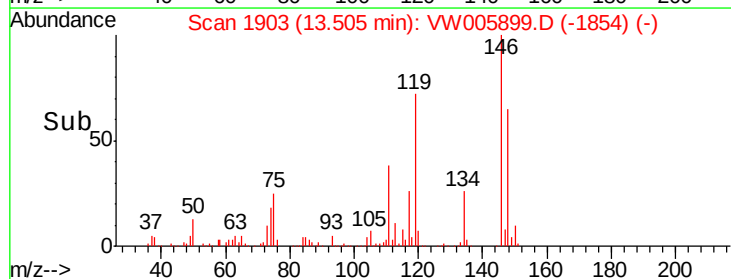
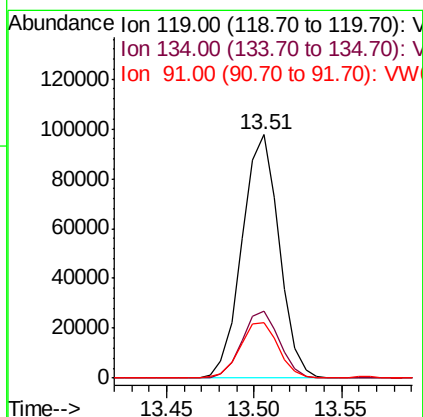
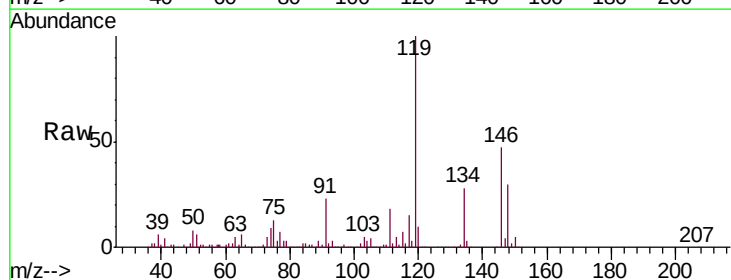
Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

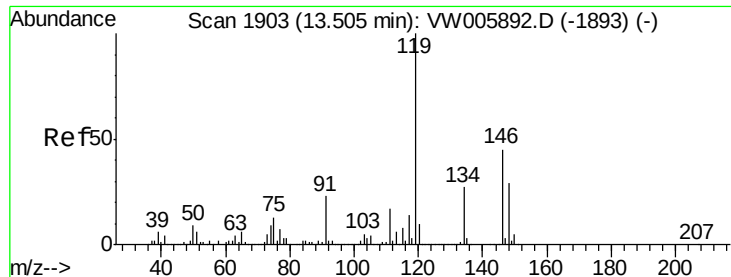
Tgt Ion:105 Resp: 160565
 Ion Ratio Lower Upper
 105 100
 134 21.3 10.4 31.4



#86
 p-Isopropyltoluene
 Concen: 9.566 ug/l
 RT: 13.51 min Scan# 1903
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Tgt Ion:119 Resp: 144570
 Ion Ratio Lower Upper
 119 100
 134 27.7 13.5 40.5
 91 23.3 11.9 35.5





#87

1,3-Dichlorobenzene

Concen: 9.795 ug/l

RT: 13.51 min Scan# 1903

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2018

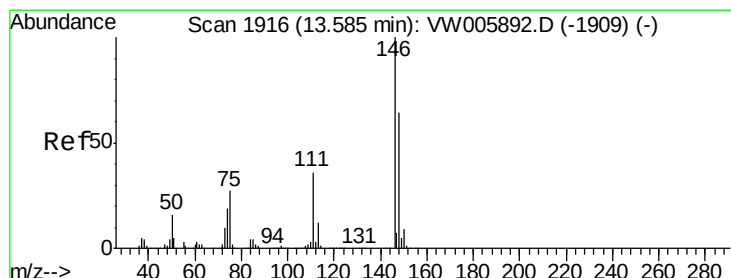
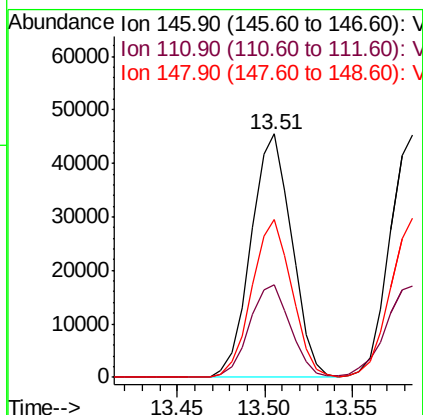
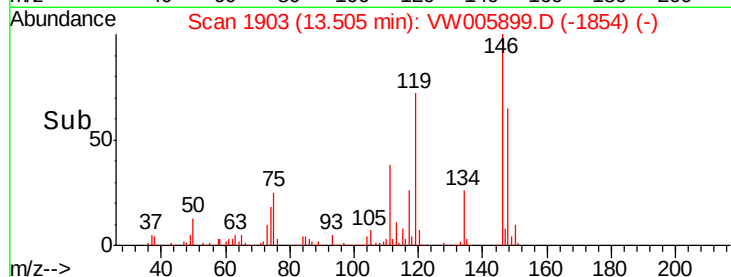
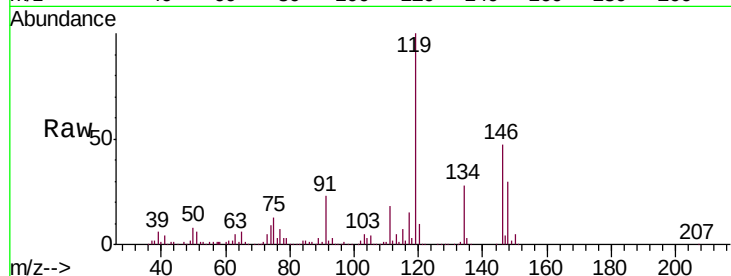
Tgt Ion:146 Resp: 73504

Ion Ratio Lower Upper

146 100

111 38.2 19.5 58.5

148 63.7 32.1 96.5



#88

1,4-Dichlorobenzene

Concen: 9.847 ug/l

RT: 13.58 min Scan# 1916

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

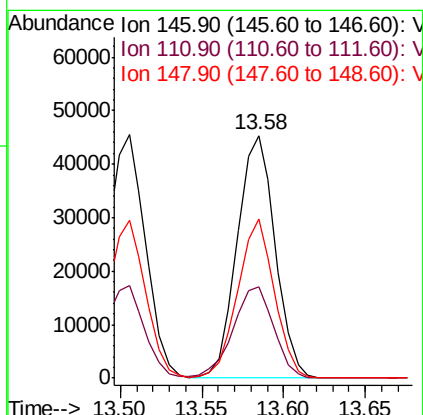
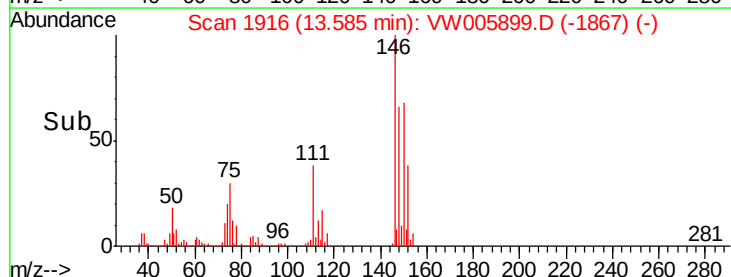
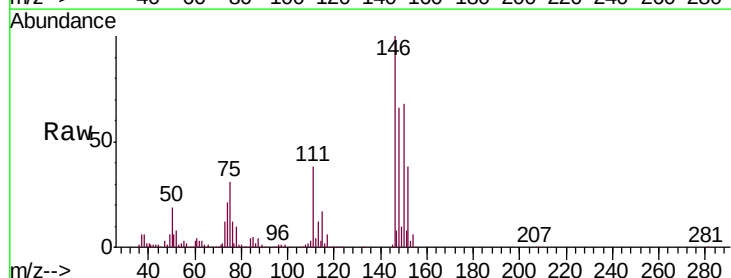
Tgt Ion:146 Resp: 73427

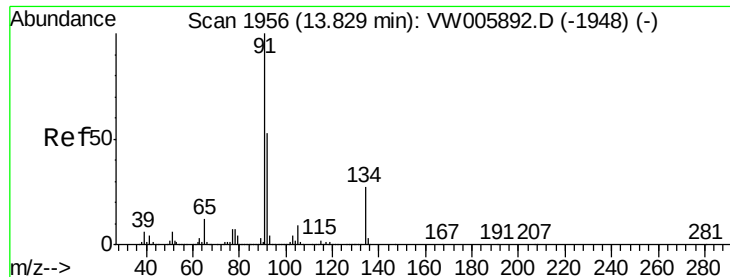
Ion Ratio Lower Upper

146 100

111 40.8 19.0 57.0

148 63.5 32.0 96.2





#89

n-Butylbenzene

Concen: 9.552 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. -0.00 min

Lab File: VW005899.D

Acq: 08 Oct 2018 16:51

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT4-2018

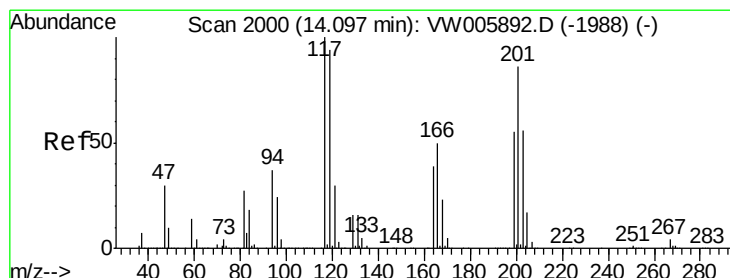
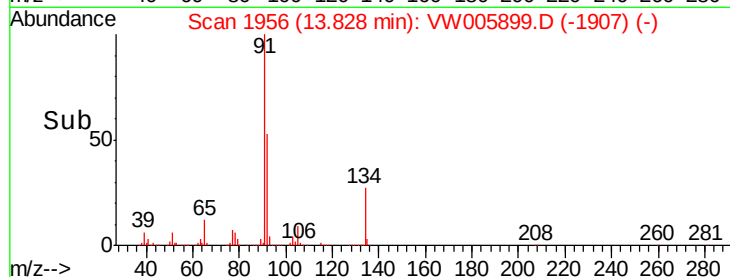
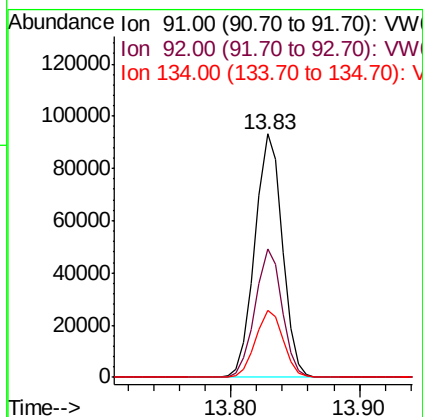
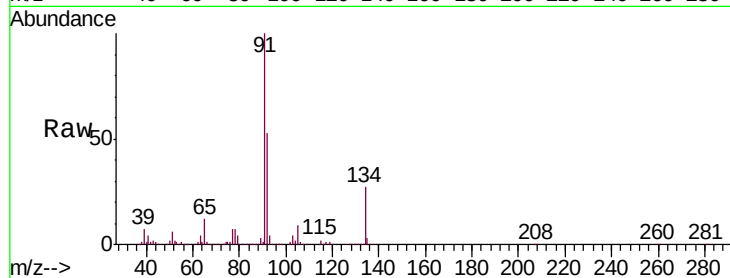
Tgt Ion: 91 Resp: 136072

Ion Ratio Lower Upper

91 100

92 52.0 26.6 79.8

134 27.6 13.8 41.4



#90

Hexachloroethane

Concen: 8.940 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. -0.00 min

Lab File: VW005899.D

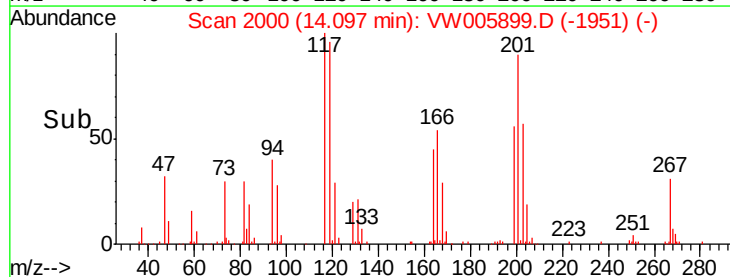
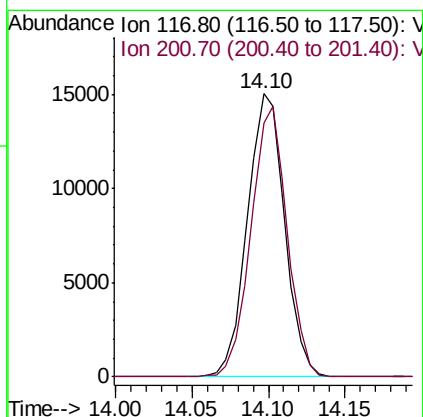
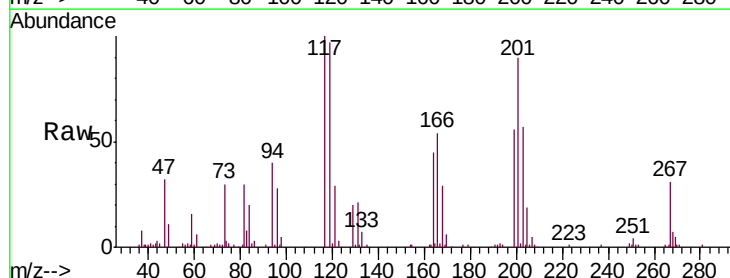
Acq: 08 Oct 2018 16:51

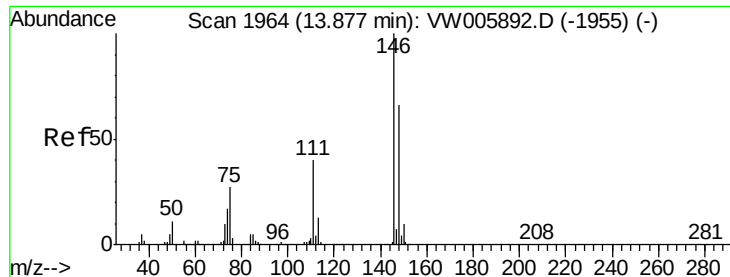
Tgt Ion: 117 Resp: 25411

Ion Ratio Lower Upper

117 100

201 92.5 44.5 133.5

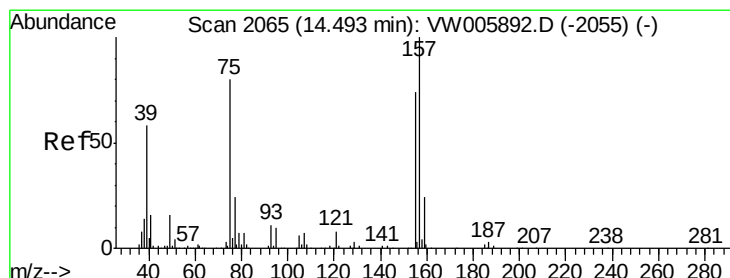
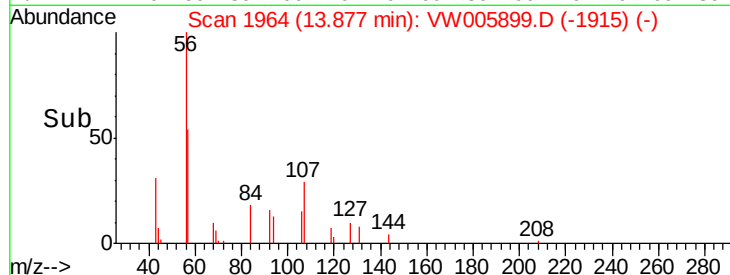
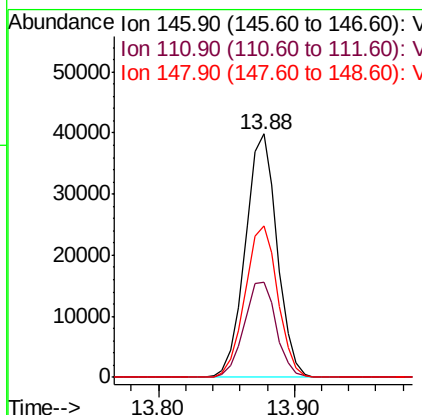
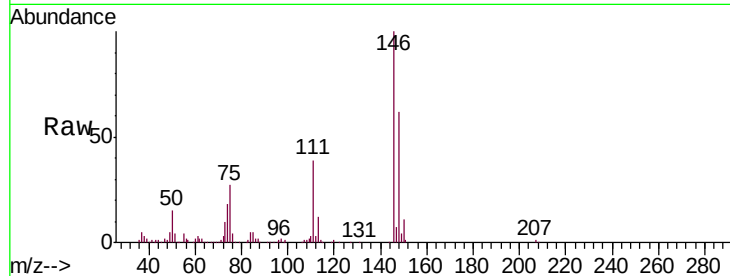




#91
 1,2-Dichlorobenzene
 Concen: 9.755 ug/l
 RT: 13.88 min Scan# 1964
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

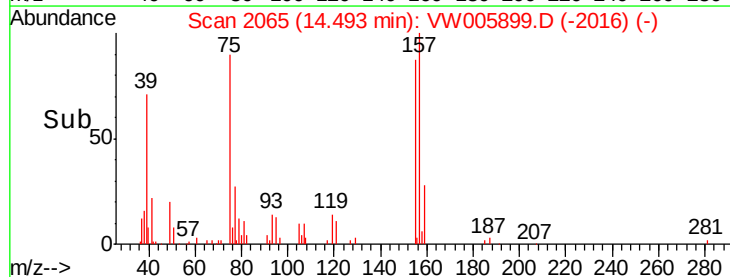
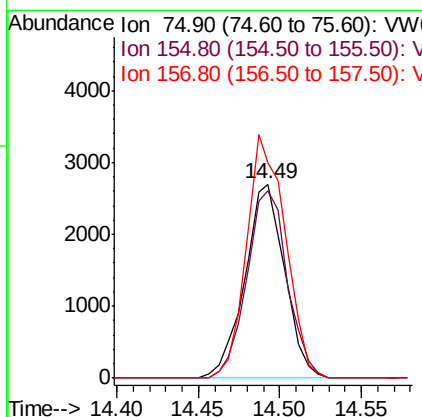
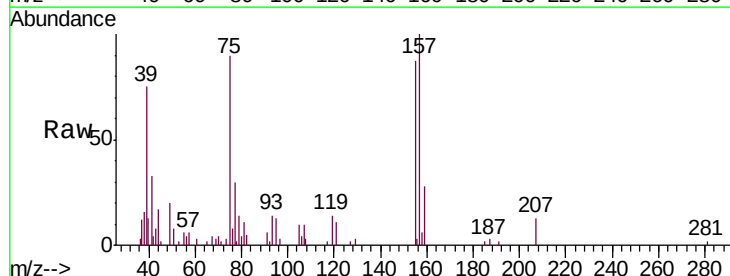
Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

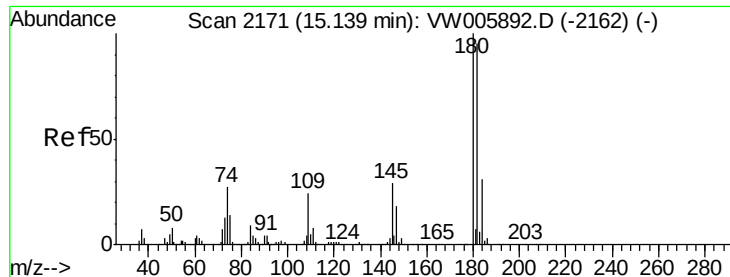
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.9	20.3	61.0
148	64.1	32.5	97.4



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 9.386 ug/l
 RT: 14.49 min Scan# 2065
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Tgt Ion	Ratio	Lower	Upper
75	100		
155	98.3	44.8	134.3
157	122.2	58.9	176.6

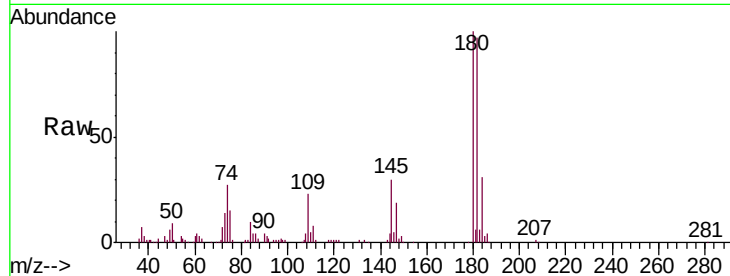




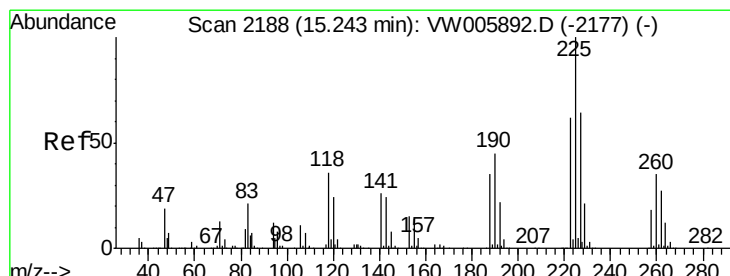
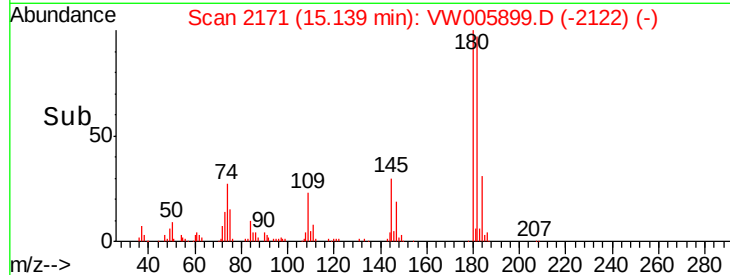
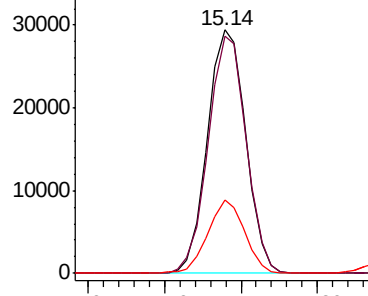
#93
 1,2,4-Trichlorobenzene
 Concen: 9.921 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Tgt Ion:180 Resp: 51249
 Ion Ratio Lower Upper
 180 100
 182 96.9 47.8 143.3
 145 28.9 14.5 43.6

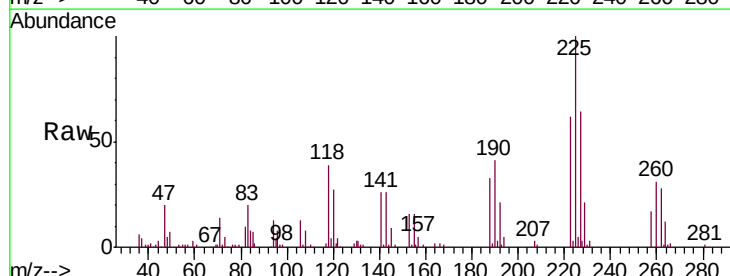


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

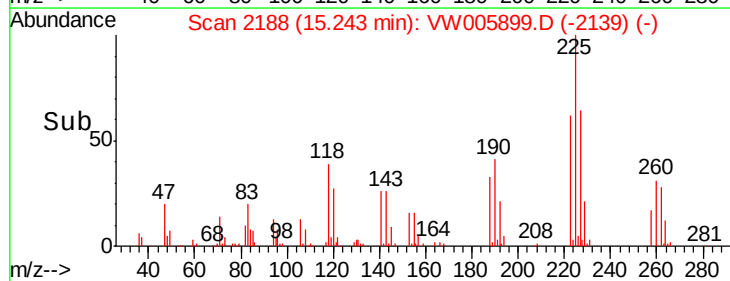
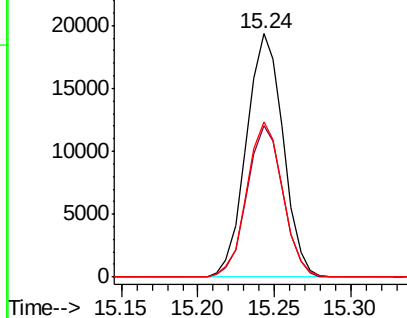


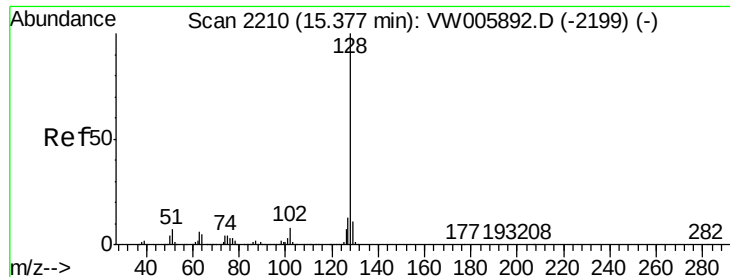
#94
 Hexachlorobutadiene
 Concen: 10.014 ug/l
 RT: 15.24 min Scan# 2188
 Delta R.T. -0.00 min
 Lab File: VW005899.D
 Acq: 08 Oct 2018 16:51

Tgt Ion:225 Resp: 32290
 Ion Ratio Lower Upper
 225 100
 223 61.0 31.2 93.6
 227 62.4 31.9 95.9



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V

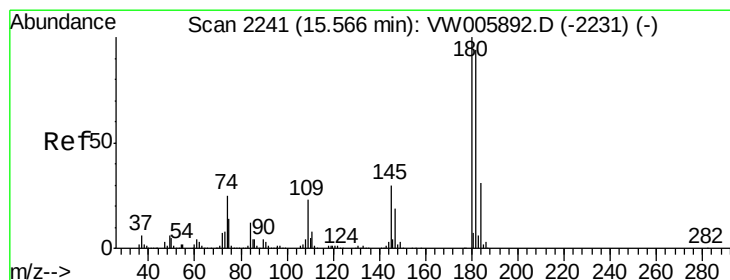
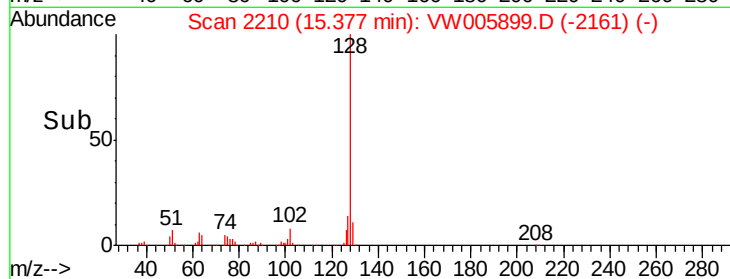
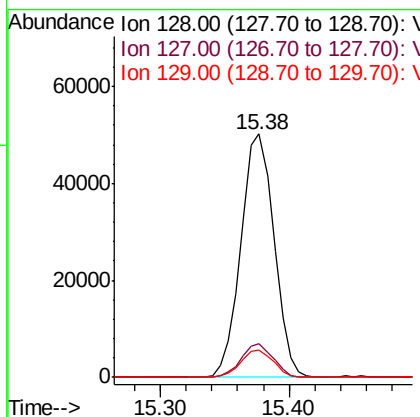
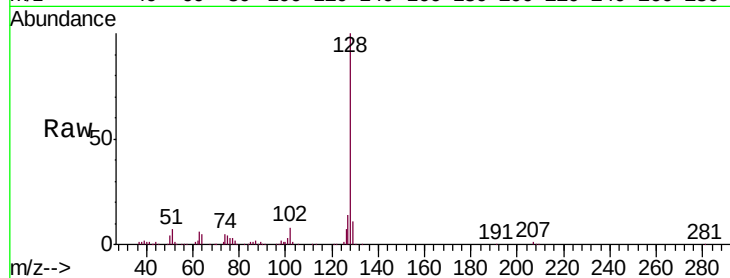




#95
Naphthalene
Concen: 10.070 ug/l
RT: 15.38 min Scan# 2210
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion	Resp	Lower	Upper
128	100		
127	13.2	10.5	15.7
129	11.0	8.9	13.3



#96
1,2,3-Trichlorobenzene
Concen: 9.882 ug/l
RT: 15.57 min Scan# 2241
Delta R.T. -0.00 min
Lab File: VW005899.D
Acq: 08 Oct 2018 16:51

Tgt Ion	Resp	Lower	Upper
180	100		
182	96.0	47.6	142.8
145	30.6	15.3	45.9

