

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070218\
 Data File : VD059519.D
 Acq On : 2 Jul 2018 23:46
 Operator : VA/AP
 Sample : J3762-02
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

Quant Time: Jul 03 09:08:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D070218S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 03 09:04:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.61	168	657979	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.66	114	849576	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.67	117	715414	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.90	152	370956	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.99	65	437348	50.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.78%	
35) Dibromofluoromethane	5.52	113	411364	57.57	ug/l	0.01
Spiked Amount	50.000		Recovery	=	115.14%	
50) Toluene-d8	8.68	98	962049	58.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.02%	
62) 4-Bromofluorobenzene	11.92	95	404199	57.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.38%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.32	85	74175	8.851	ug/l	99
3) Chloromethane	1.47	50	39247	9.884	ug/l	96
4) Vinyl Chloride	1.54	62	36600	9.239	ug/l	95
5) Bromomethane	1.77	94	17847	11.900	ug/l	95
6) Chloroethane	1.86	64	18915	10.612	ug/l	96
7) Trichlorofluoromethane	2.06	101	63158	9.638	ug/l	89
8) Diethyl Ether	2.31	74	11435	9.115	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	2.53	101	35761	8.970	ug/l #	87
10) Methyl Iodide	2.67	142	32955	8.293	ug/l	96
11) Tert butyl alcohol	3.24	59	13066	45.921	ug/l #	94
12) 1,1-Dichloroethene	2.52	96	29070	9.545	ug/l	95
13) Acrolein	2.44	56	9334	57.577	ug/l	83
14) Allyl chloride	2.89	41	56317	8.375	ug/l	94
15) Acrylonitrile	3.33	53	36387	46.266	ug/l	95
16) Acetone	2.59	43	55397	47.975	ug/l #	89
17) Carbon Disulfide	2.73	76	76278	9.885	ug/l	98
18) Methyl Acetate	2.91	43	21620	7.000	ug/l #	83
19) Methyl tert-butyl Ether	3.37	73	72722	9.236	ug/l #	89
20) Methylene Chloride	3.03	84	48016	10.733	ug/l	91
21) trans-1,2-Dichloroethene	3.36	96	32080	9.537	ug/l	95
22) Diisopropyl ether	4.04	45	240702	9.818	ug/l	98
23) Vinyl Acetate	3.98	43	635621	46.984	ug/l	99
24) 1,1-Dichloroethane	3.94	63	133967	9.651	ug/l	97
25) 2-Butanone	4.80	43	111496	46.423	ug/l	99
26) 2,2-Dichloropropane	4.76	77	102289	9.014	ug/l	97
27) cis-1,2-Dichloroethene	4.76	96	73277	10.061	ug/l	97
28) Bromochloromethane	5.11	49	57475	10.793	ug/l	95
29) Tetrahydrofuran	5.16	42	58543	47.865	ug/l	93
30) Chloroform	5.30	83	138439	9.455	ug/l	100
31) Cyclohexane	5.56	56	105267	8.664	ug/l	98
32) 1,1,1-Trichloroethane	5.47	97	109777	9.462	ug/l	98
36) 1,1-Dichloropropene	5.71	75	98590	10.807	ug/l	98
37) Ethyl Acetate	4.90	43	57815	11.393	ug/l	96
38) Carbon Tetrachloride	5.70	117	94734	10.564	ug/l	92

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.26	83	89437	10.763	ug/l	96
40) Benzene	5.99	78	213773	10.181	ug/l	98
41) Methacrylonitrile	5.09	41	29314	11.388	ug/l	98
42) 1,2-Dichloroethane	6.10	62	94410	10.051	ug/l	97
43) Isopropyl Acetate	7.60	43	68631	10.221	ug/l #	97
44) Trichloroethene	6.95	130	68581	10.761	ug/l	81
45) 1,2-Dichloropropane	7.32	63	58413	9.952	ug/l #	88
46) Dibromomethane	7.44	93	40242	10.132	ug/l	93
47) Bromodichloromethane	7.72	83	95677	10.349	ug/l	94
48) Methyl methacrylate	7.48	41	43365	10.355	ug/l	97
49) 1,4-Dioxane	7.46	88	7137	182.896	ug/l	92
51) 4-Methyl-2-Pentanone	8.57	43	229191	52.266	ug/l	93
52) Toluene	8.78	92	124484	10.740	ug/l	94
53) t-1,3-Dichloropropene	9.17	75	80431	9.989	ug/l	98
54) cis-1,3-Dichloropropene	8.34	75	95769	10.256	ug/l	95
55) 1,1,2-Trichloroethane	9.43	97	43177	10.158	ug/l	93
56) Ethyl methacrylate	9.29	69	56032	10.522	ug/l #	92
57) 1,3-Dichloropropane	9.65	76	76160	9.946	ug/l	91
58) 2-Chloroethyl Vinyl ether	8.16	63	139570	54.186	ug/l	98
59) 2-Hexanone	9.77	43	172047	53.343	ug/l	96
60) Dibromochloromethane	9.93	129	62147	10.476	ug/l	95
61) 1,2-Dibromoethane	10.07	107	46836	9.953	ug/l	99
64) Tetrachloroethene	9.49	164	64783	10.528	ug/l	91
65) Chlorobenzene	10.70	112	140387	10.186	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.83	131	58809	10.479	ug/l	98
67) Ethyl Benzene	10.84	91	275345	11.267	ug/l	99
68) m/p-Xylenes	11.00	106	175419	21.758	ug/l	100
69) o-Xylene	11.39	106	83656	10.769	ug/l	95
70) Styrene	11.42	104	139470	10.709	ug/l #	89
71) Bromoform	11.59	173	35564	8.395	ug/l	93
73) Isopropylbenzene	11.76	105	236934	10.688	ug/l	97
74) N-amyl acetate	11.64	43	92232	9.858	ug/l #	93
75) 1,1,2,2-Tetrachloroethane	12.06	83	58808	10.239	ug/l	95
76) 1,2,3-Trichloropropane	12.10	75	58364	9.750	ug/l	99
77) Bromobenzene	12.03	156	71094	10.218	ug/l	89
78) n-propylbenzene	12.14	91	311461	10.488	ug/l	99
79) 2-Chlorotoluene	12.21	91	178883	10.242	ug/l	95
80) 1,3,5-Trimethylbenzene	12.31	105	198824	11.034	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.83	75	11830	9.150	ug/l	96
82) 4-Chlorotoluene	12.32	91	218254	11.026	ug/l	88
83) tert-Butylbenzene	12.56	119	219829	10.725	ug/l	91
84) 1,2,4-Trimethylbenzene	12.61	105	195845	10.118	ug/l	99
85) sec-Butylbenzene	12.75	105	257513	10.948	ug/l	98
86) p-Isopropyltoluene	12.88	119	208071	10.545	ug/l	97
87) 1,3-Dichlorobenzene	12.83	146	116394	9.771	ug/l	98
88) 1,4-Dichlorobenzene	12.92	146	123220	10.538	ug/l	97
89) n-Butylbenzene	13.18	91	237897	11.822	ug/l	98
90) Hexachloroethane	13.39	117	47478	9.287	ug/l	91
91) 1,2-Dichlorobenzene	13.18	146	113609	11.337	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.76	75	9648	9.745	ug/l	90

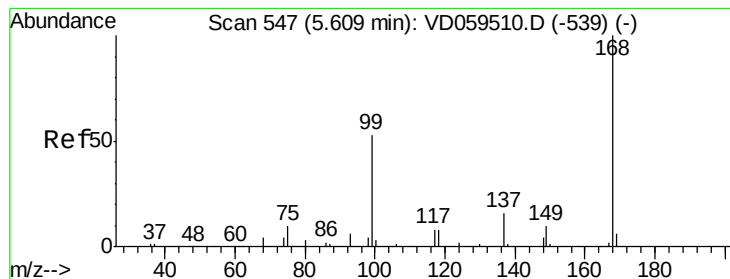
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.33	180	96408	10.854	ug/l	97
94) Hexachlorobutadiene	14.42	225	71850	10.575	ug/l	95
95) Naphthalene	14.50	128	134193	10.157	ug/l	98
96) 1,2,3-Trichlorobenzene	14.65	180	78684	10.074	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 547

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

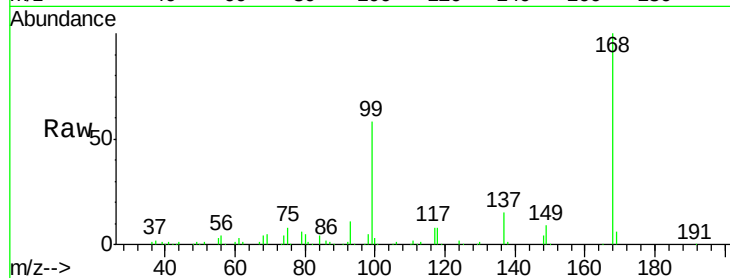
LOQ-SOIL-02-QT3-2018

Tot Ion:168 Resp: 657979

Ion Ratio Lower Upper

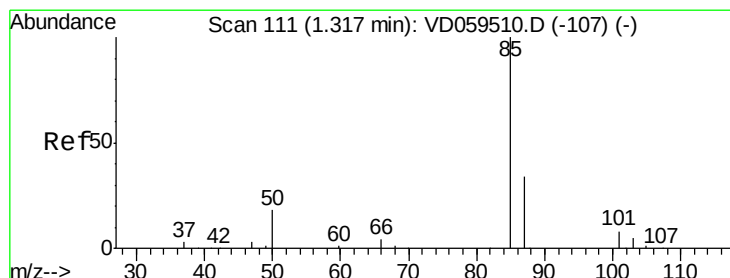
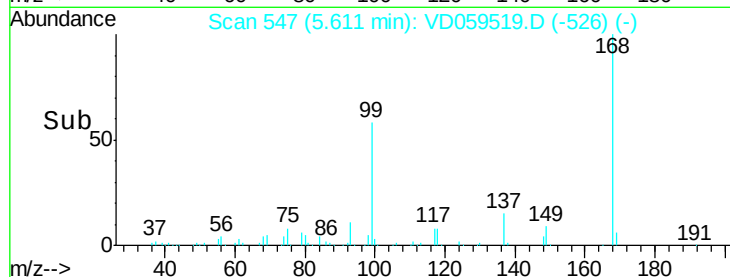
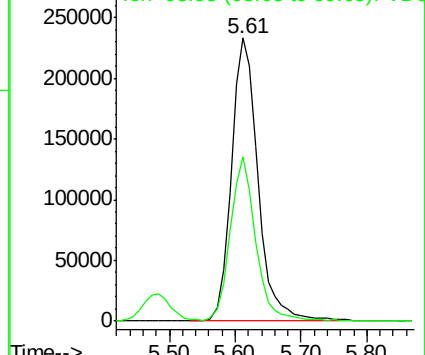
168 100

99 58.0 45.1 67.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 8.851 ug/l

RT: 1.32 min Scan# 111

Delta R.T. 0.00 min

Lab File: VD059519.D

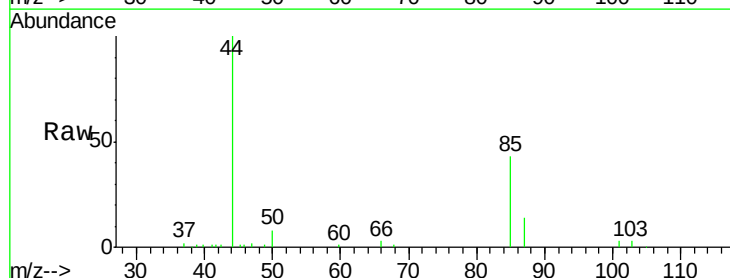
Acq: 2 Jul 2018 23:46

Tgt Ion: 85 Resp: 74175

Ion Ratio Lower Upper

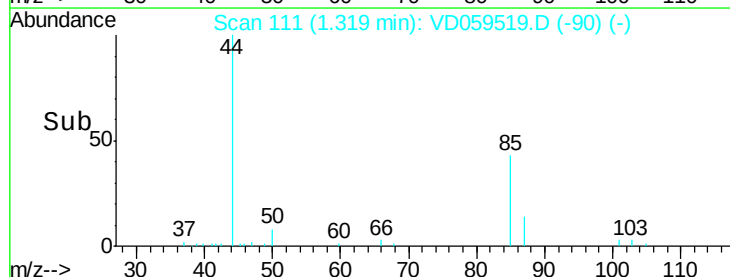
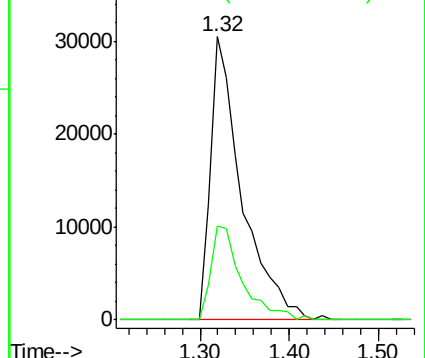
85 100

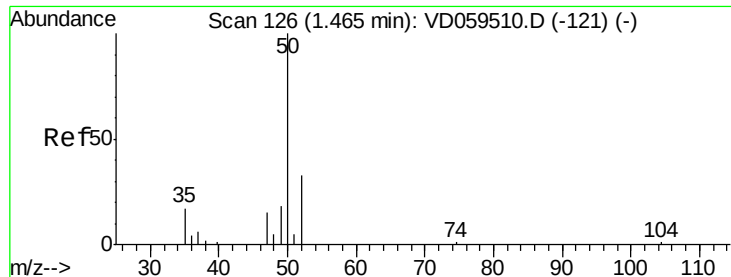
87 33.2 16.8 50.4



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 9.884 ug/l

RT: 1.47 min Scan# 126

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

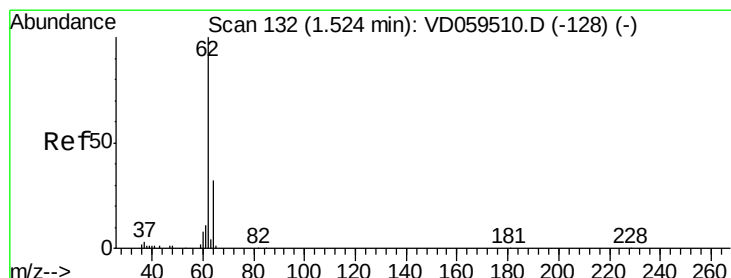
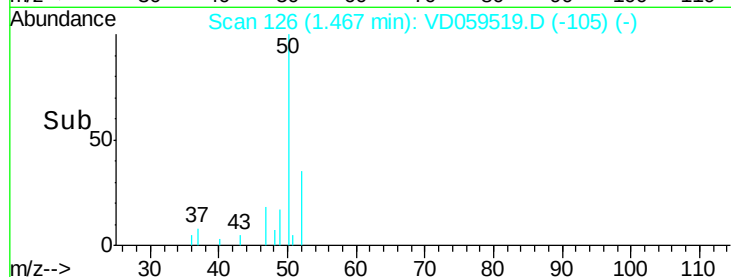
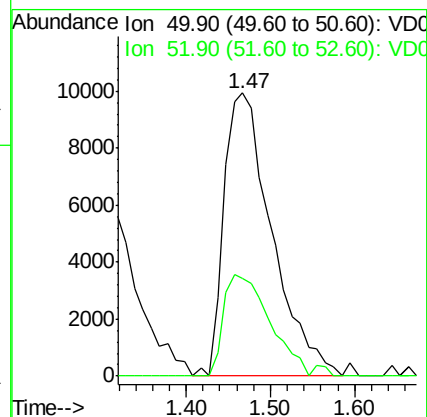
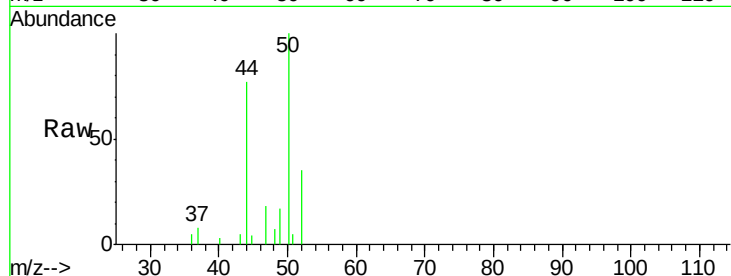
LOQ-SOIL-02-QT3-2018

Tot Ion: 50 Resp: 39247

Ion Ratio Lower Upper

50 100

52 34.7 25.8 38.6



#4

Vinyl Chloride

Concen: 9.239 ug/l

RT: 1.54 min Scan# 133

Delta R.T. 0.01 min

Lab File: VD059519.D

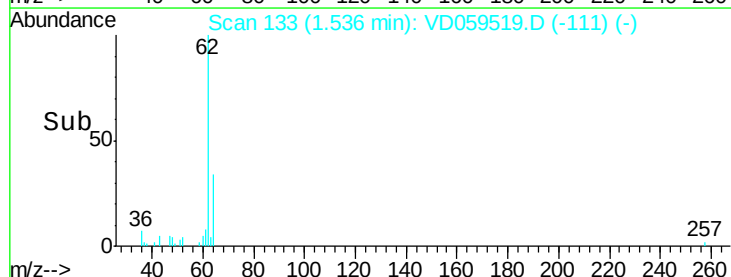
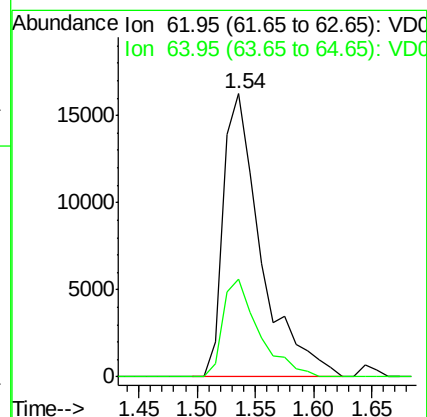
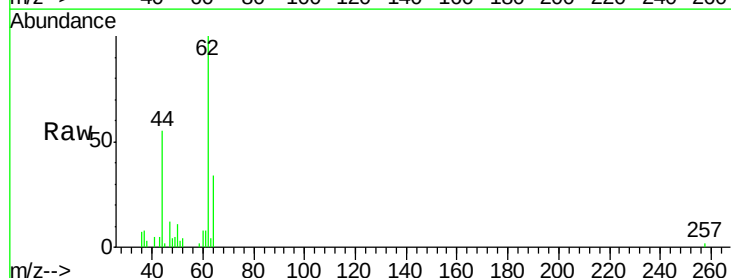
Acq: 2 Jul 2018 23:46

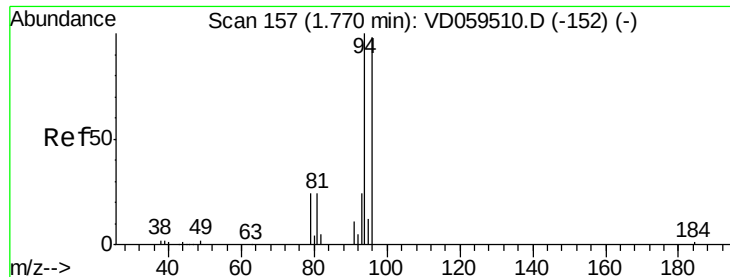
Tgt Ion: 62 Resp: 36600

Ion Ratio Lower Upper

62 100

64 34.5 25.4 38.2





#5

Bromomethane

Concen: 11.900 ug/l

RT: 1.77 min Scan# 157

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

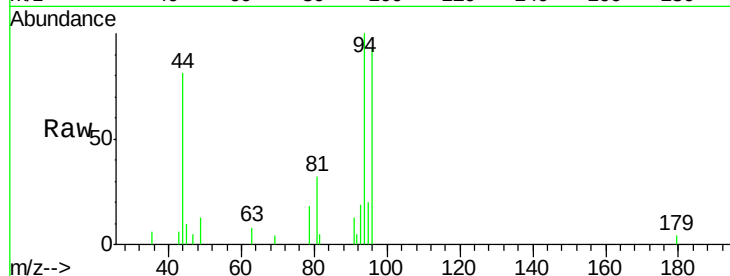
LOQ-SOIL-02-QT3-2018

Tot Ion: 94 Resp: 17847

Ion Ratio Lower Upper

94 100

96 93.3 78.2 117.4



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

1.77

8000

6000

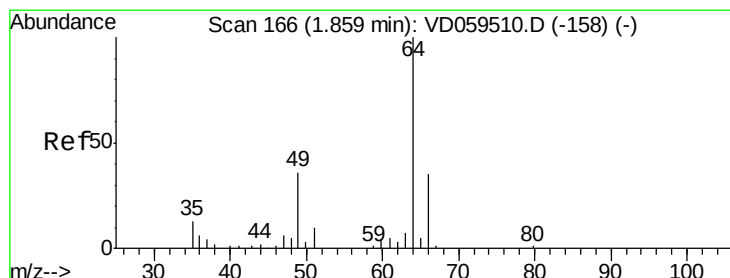
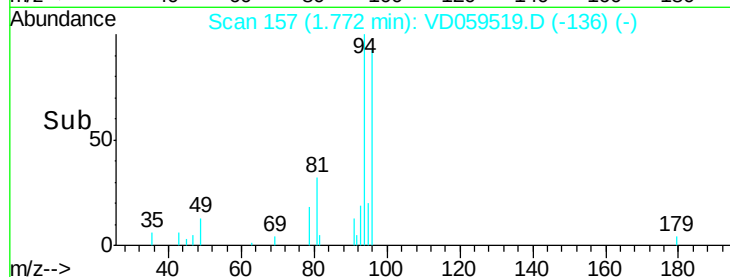
4000

2000

0

Time-->

1.70 1.80 1.90



#6

Chloroethane

Concen: 10.612 ug/l

RT: 1.86 min Scan# 166

Delta R.T. 0.00 min

Lab File: VD059519.D

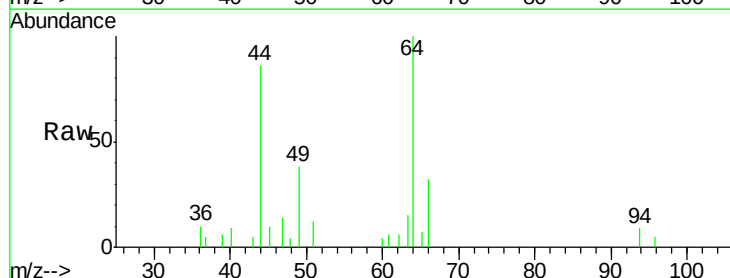
Acq: 2 Jul 2018 23:46

Tgt Ion: 64 Resp: 18915

Ion Ratio Lower Upper

64 100

66 32.0 27.6 41.4



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC

1.86

8000

6000

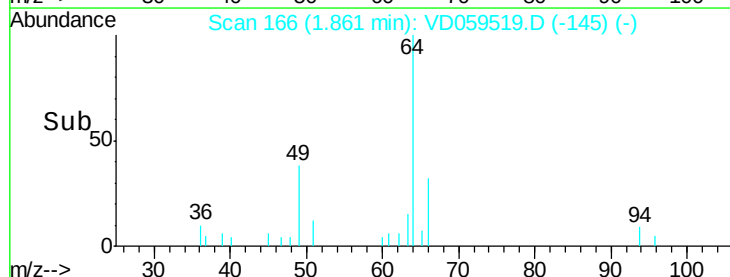
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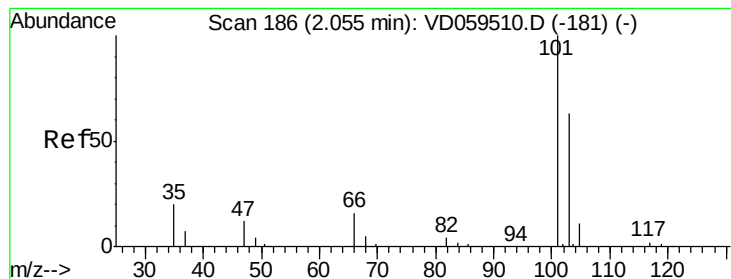
2000

0

Time-->

1.80 1.90 2.00



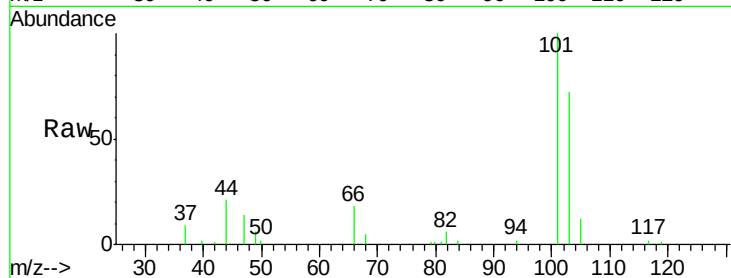


#7

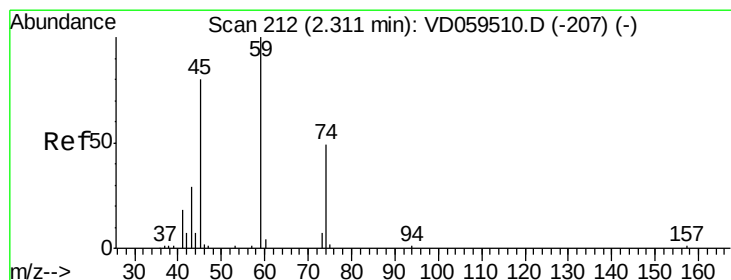
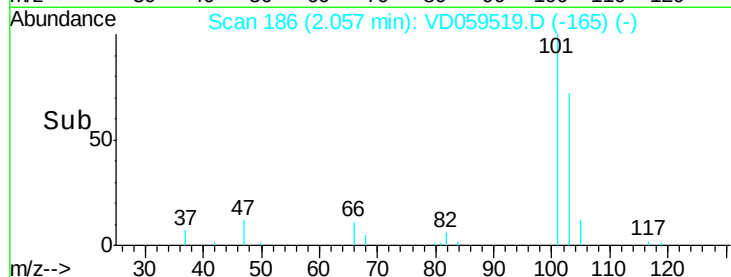
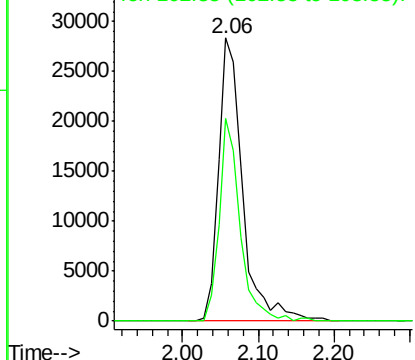
Trichlorofluoromethane
 Concen: 9.638 ug/l
 RT: 2.06 min Scan# 186
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

Tot Ion:101 Resp: 63158
 Ion Ratio Lower Upper
 101 100
 103 71.5 50.6 76.0



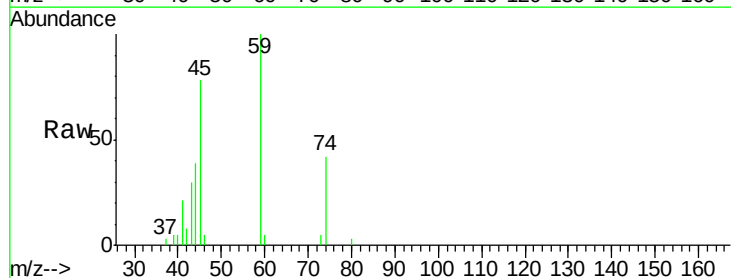
Abundance Ion 100.85 (100.55 to 101.55): V
 Ion 102.85 (102.55 to 103.55): V



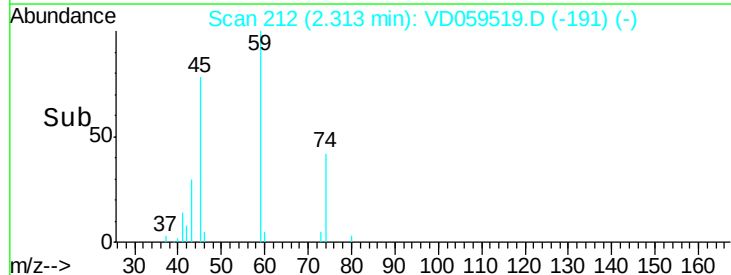
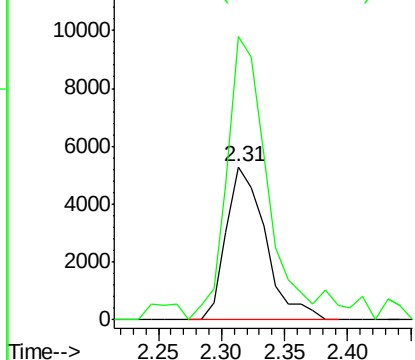
#8

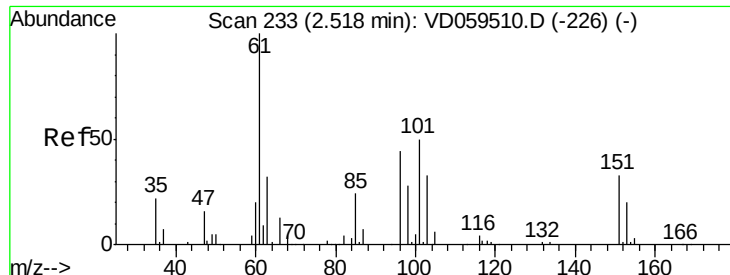
Diethyl Ether
 Concen: 9.115 ug/l
 RT: 2.31 min Scan# 212
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

Tgt Ion: 74 Resp: 11435
 Ion Ratio Lower Upper
 74 100
 45 184.9 83.5 250.3



Abundance Ion 74.00 (73.70 to 74.70): VDC
 Ion 45.05 (44.75 to 45.75): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 8.970 ug/l

RT: 2.53 min Scan# 234

Delta R.T. 0.01 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

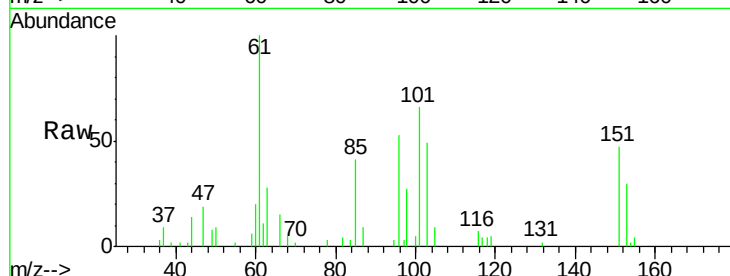
Tot Ion:101 Resp: 35761

Ion Ratio Lower Upper

101 100

85 62.3 38.8 58.2#

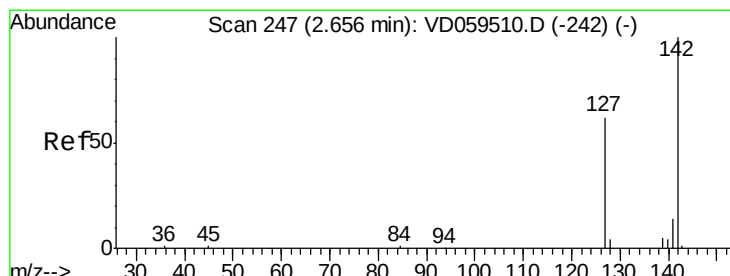
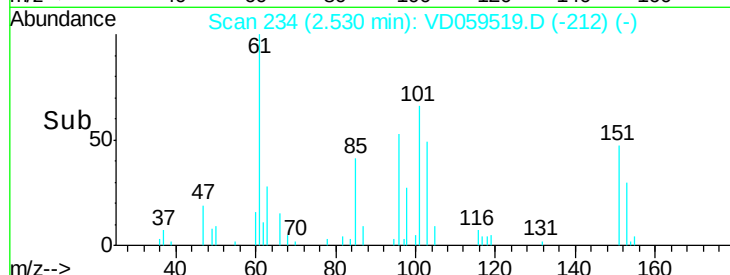
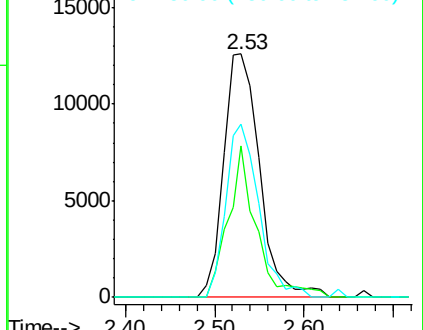
151 71.3 52.6 79.0



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 8.293 ug/l

RT: 2.67 min Scan# 248

Delta R.T. 0.01 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

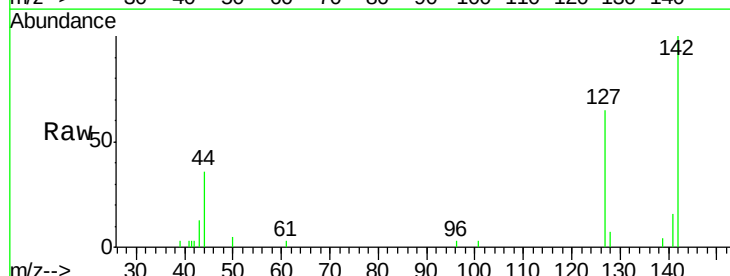
Tgt Ion:142 Resp: 32955

Ion Ratio Lower Upper

142 100

127 64.8 49.8 74.8

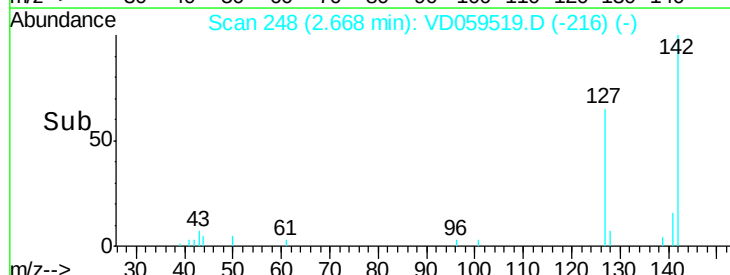
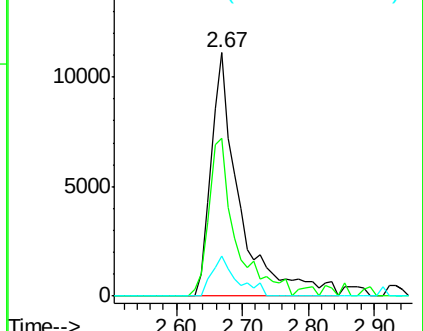
141 16.4 11.1 16.7

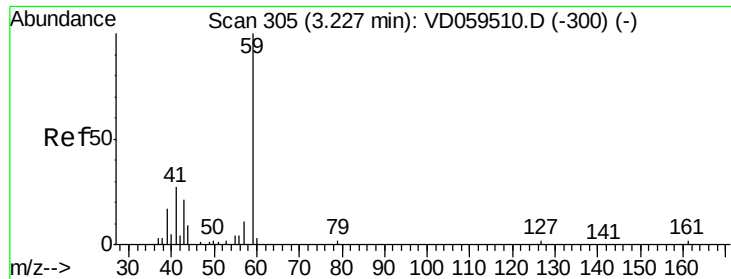


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



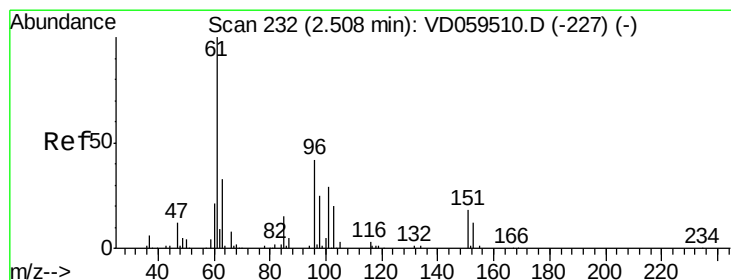
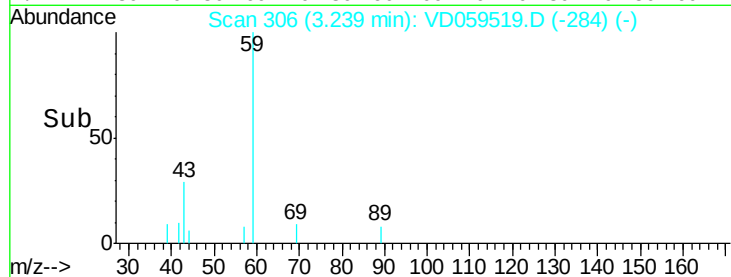
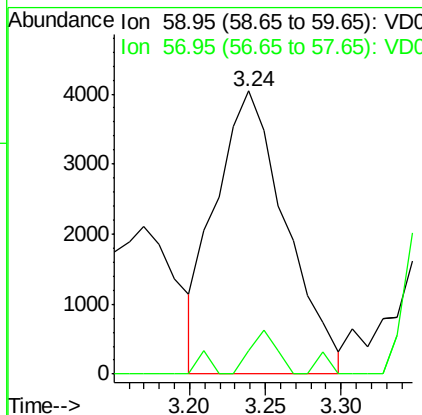
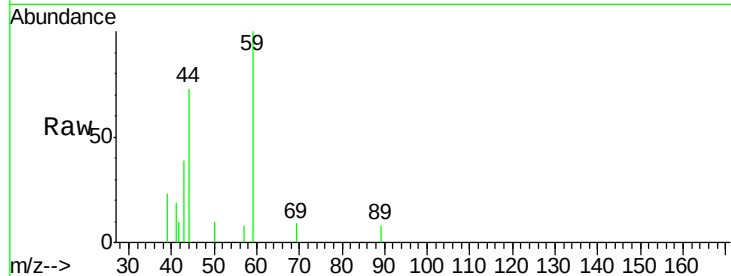


#11

Tert butyl alcohol
 Concen: 45.921 ug/l
 RT: 3.24 min Scan# 306
 Delta R.T. 0.01 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

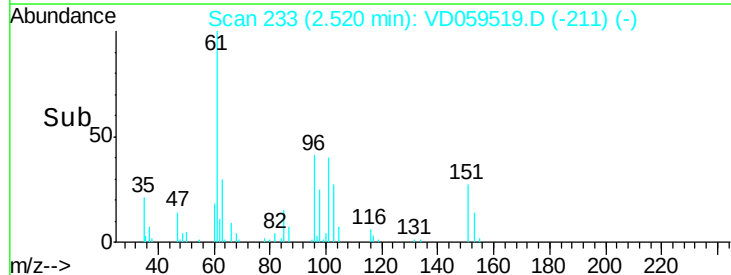
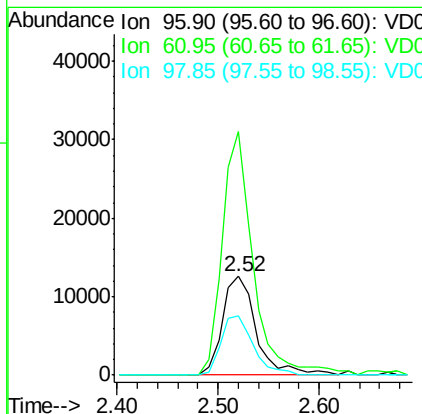
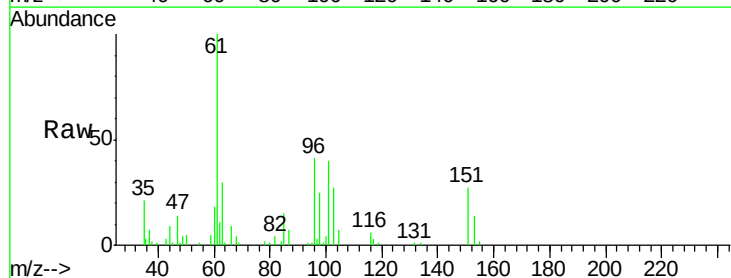
Tot Ion: 59 Resp: 13066
 Ion Ratio Lower Upper
 59 100
 57 8.5 8.6 12.8#

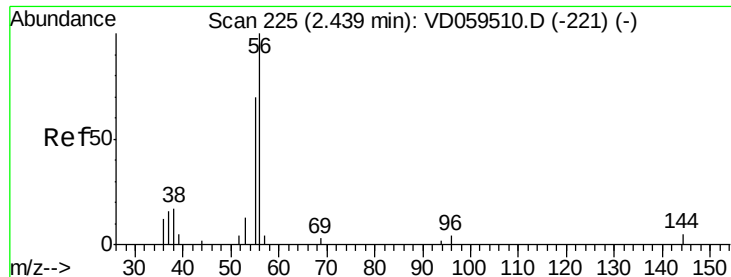


#12

1,1-Dichloroethene
 Concen: 9.545 ug/l
 RT: 2.52 min Scan# 233
 Delta R.T. 0.01 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

Tgt Ion: 96 Resp: 29070
 Ion Ratio Lower Upper
 96 100
 61 246.6 189.4 284.0
 98 60.5 47.9 71.9





#13

Acrolein

Concen: 57.577 ug/l

RT: 2.44 min Scan# 225

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

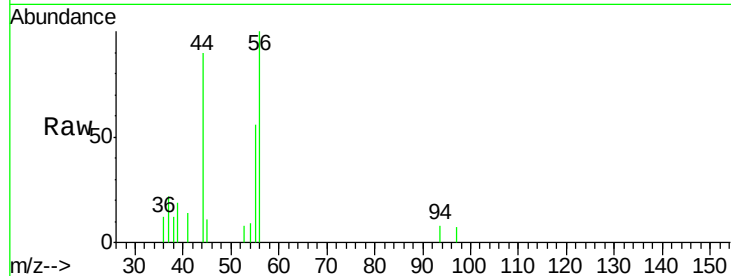
LOQ-SOIL-02-QT3-2018

Tot Ion: 56 Resp: 9334

Ion Ratio Lower Upper

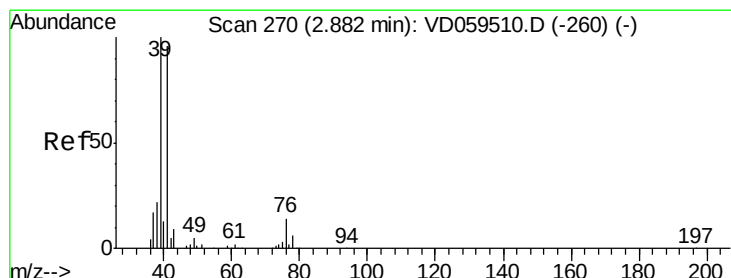
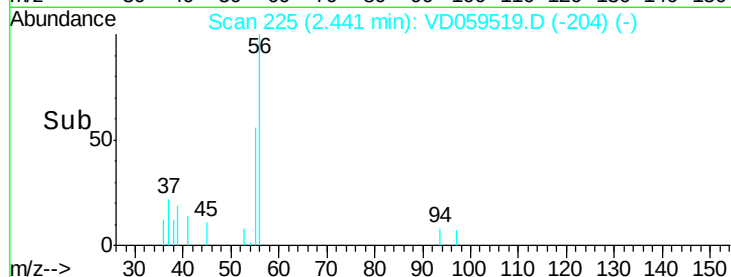
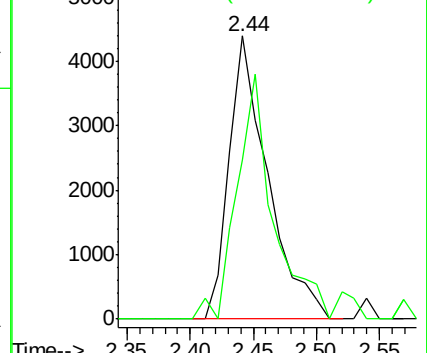
56 100

55 56.4 56.0 84.0



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 8.375 ug/l

RT: 2.89 min Scan# 271

Delta R.T. 0.01 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

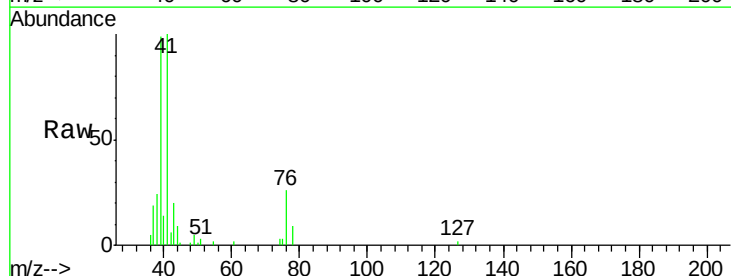
Tgt Ion: 41 Resp: 56317

Ion Ratio Lower Upper

41 100

39 98.8 83.8 125.8

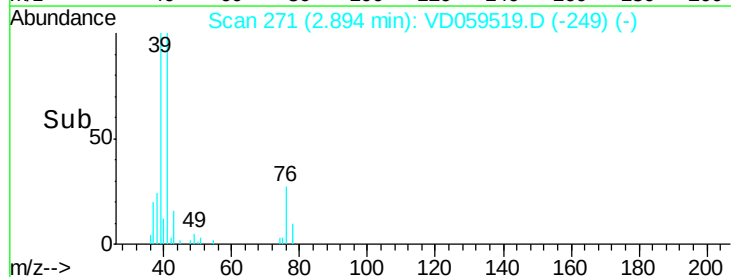
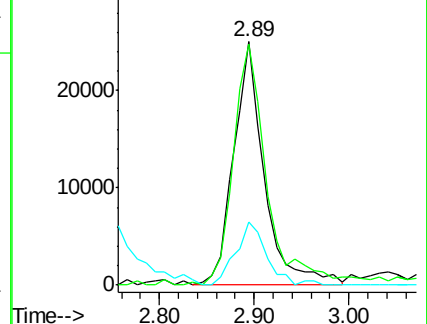
76 26.2 18.4 27.6

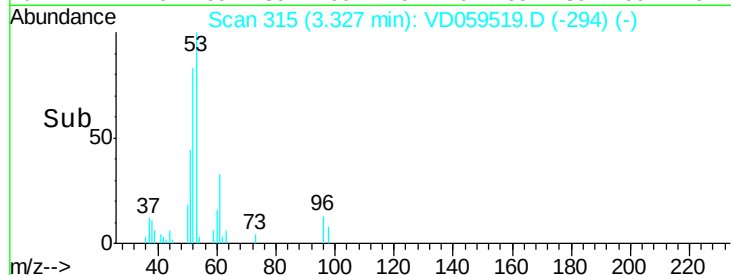
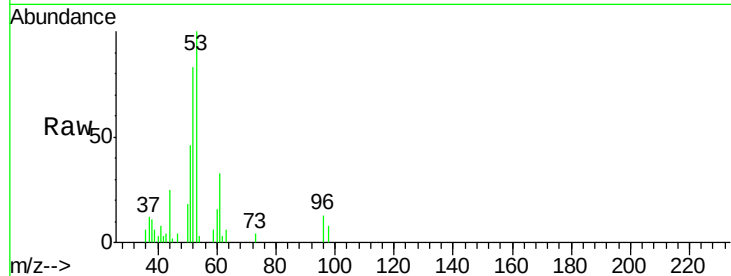
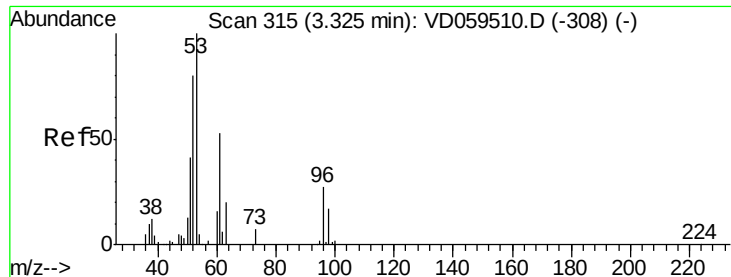


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 46.266 ug/l

RT: 3.33 min Scan# 315

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

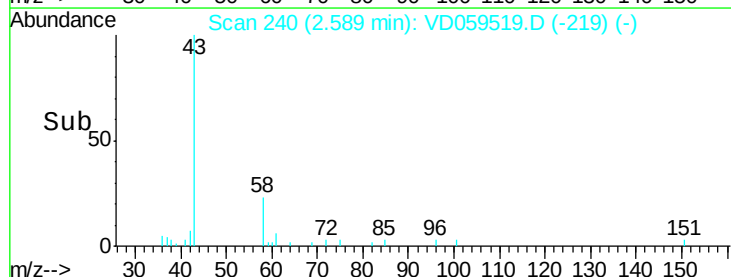
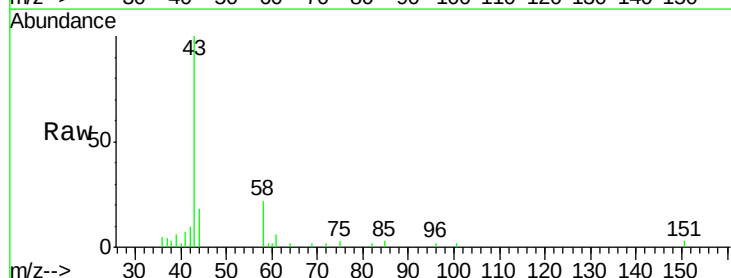
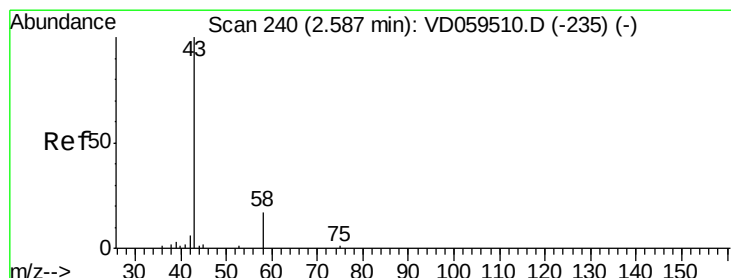
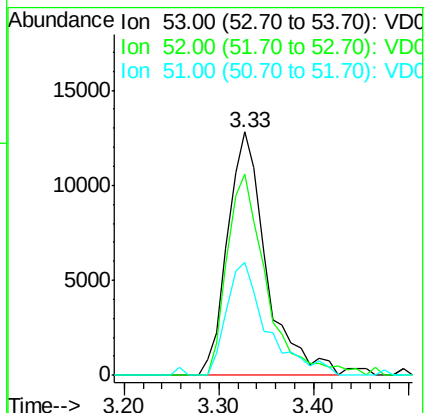
Tot Ion: 53 Resp: 36387

Ion Ratio Lower Upper

53 100

52 83.0 64.3 96.5

51 46.3 33.0 49.4



#16

Acetone

Concen: 47.975 ug/l

RT: 2.59 min Scan# 240

Delta R.T. 0.00 min

Lab File: VD059519.D

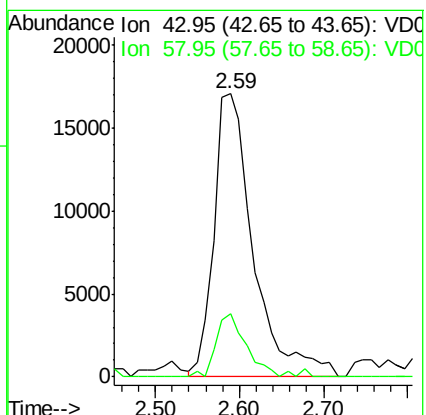
Acq: 2 Jul 2018 23:46

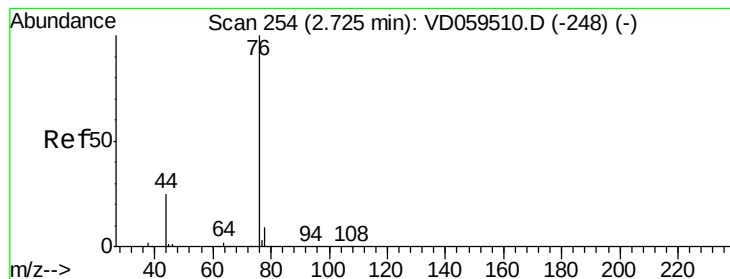
Tgt Ion: 43 Resp: 55397

Ion Ratio Lower Upper

43 100

58 22.2 13.8 20.8#





#17

Carbon Disulfide

Concen: 9.885 ug/l

RT: 2.73 min Scan# 254

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

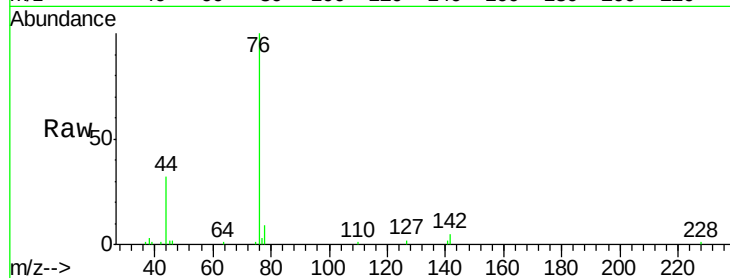
LOQ-SOIL-02-QT3-2018

Tot Ion: 76 Resp: 76278

Ion Ratio Lower Upper

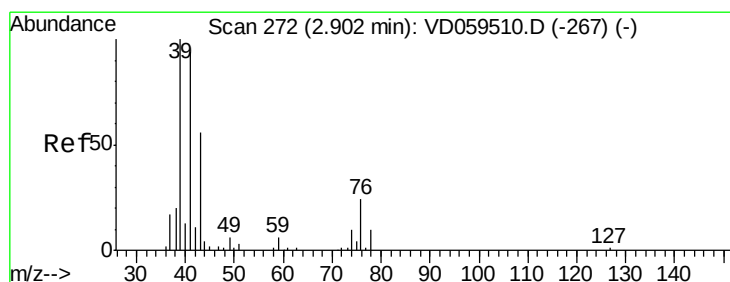
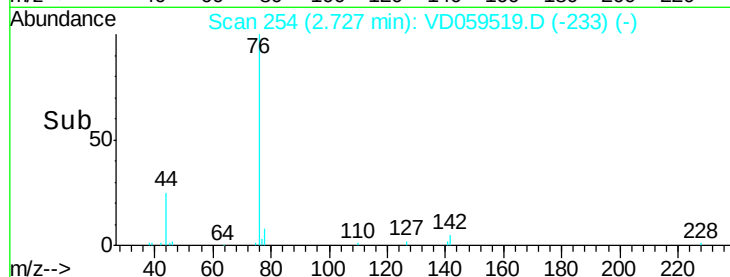
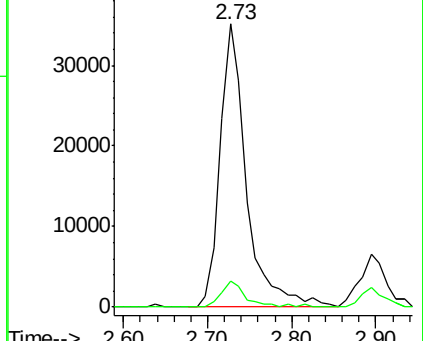
76 100

78 9.4 6.9 10.3



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 7.000 ug/l

RT: 2.91 min Scan# 273

Delta R.T. 0.01 min

Lab File: VD059519.D

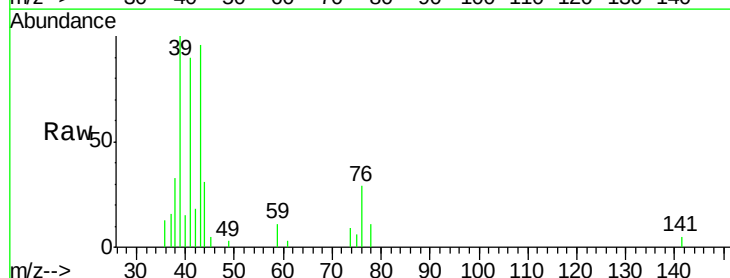
Acq: 2 Jul 2018 23:46

Tgt Ion: 43 Resp: 21620

Ion Ratio Lower Upper

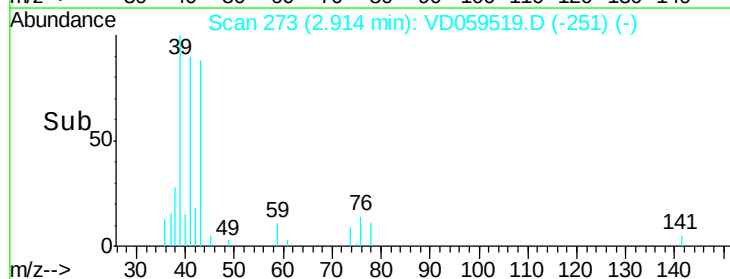
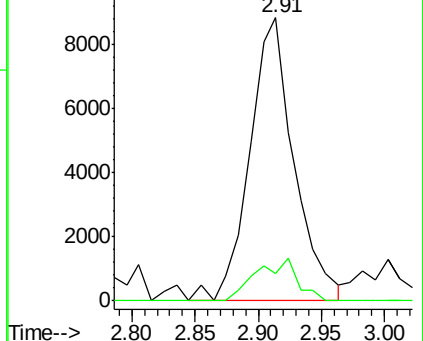
43 100

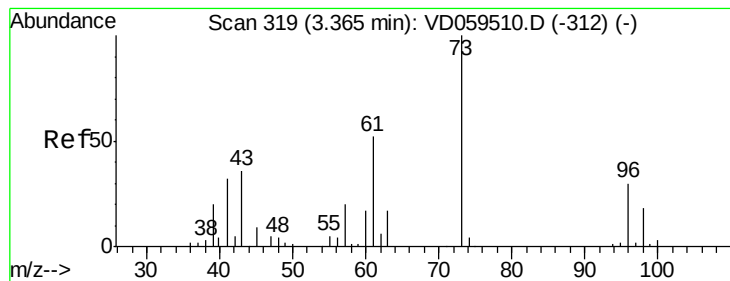
74 9.8 13.8 20.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#19

Methyl tert-butyl Ether

Concen: 9.236 ug/l

RT: 3.37 min Scan# 319

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

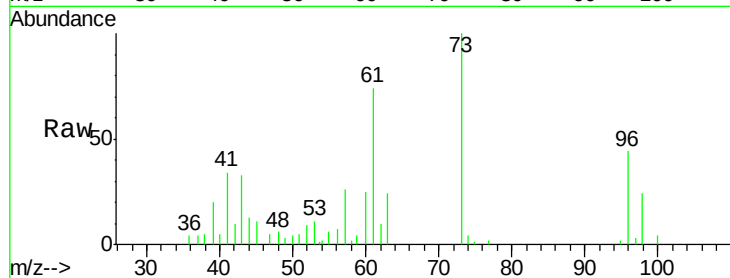
LOQ-SOIL-02-QT3-2018

Tot Ion: 73 Resp: 72722

Ion Ratio Lower Upper

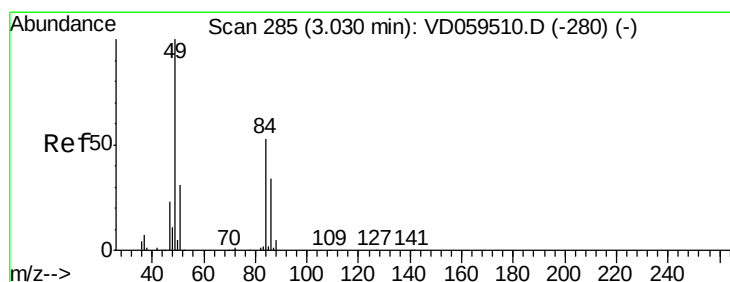
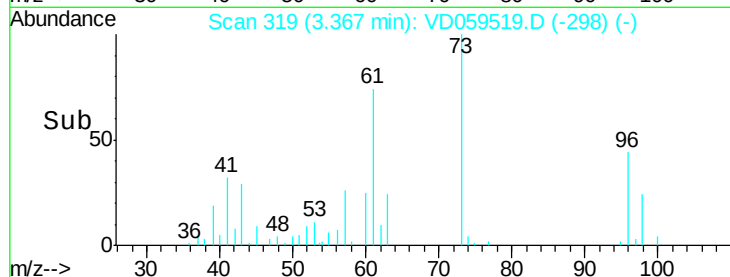
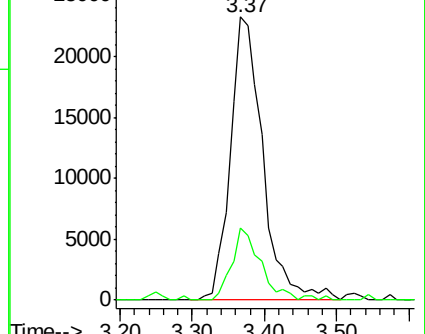
73 100

57 25.6 16.5 24.7#



Abundance Ion 73.00 (72.70 to 73.70): VDC

Ion 57.05 (56.75 to 57.75): VDC



#20

Methylene Chloride

Concen: 10.733 ug/l

RT: 3.03 min Scan# 285

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Tgt Ion: 84 Resp: 48016

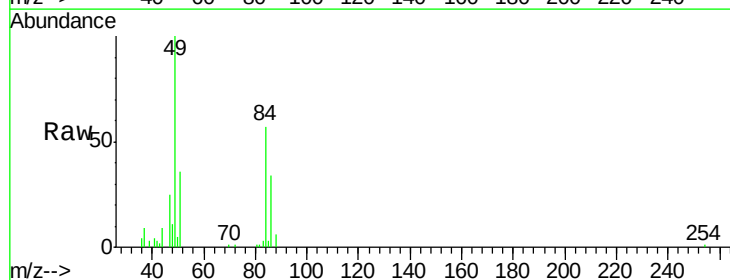
Ion Ratio Lower Upper

84 100

49 175.3 152.2 228.2

51 62.6 46.5 69.7

86 59.5 52.5 78.7

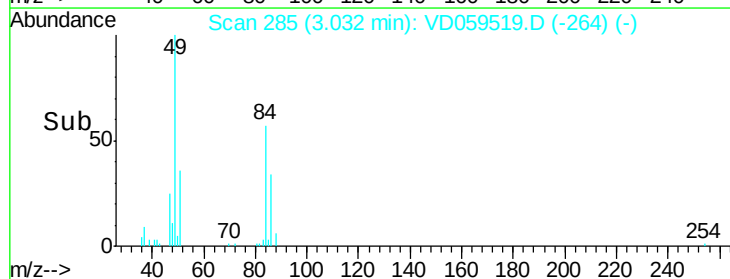
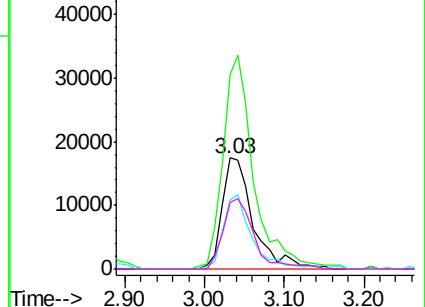


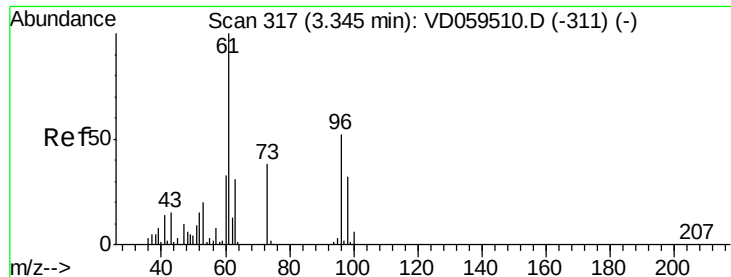
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#21

trans-1,2-Dichloroethene

Concen: 9.537 ug/l

RT: 3.36 min Scan# 318

Delta R.T. 0.01 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

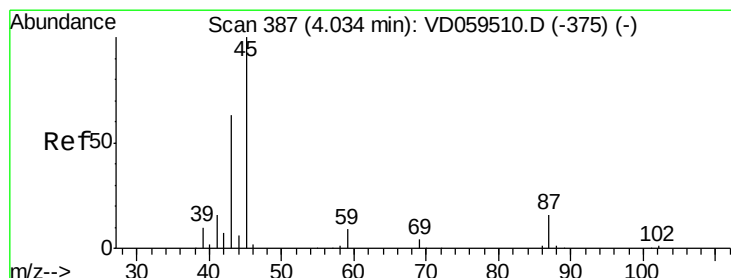
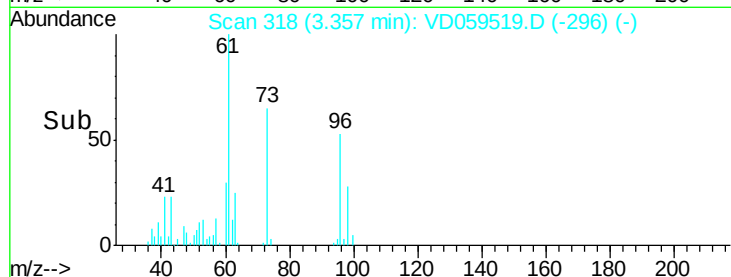
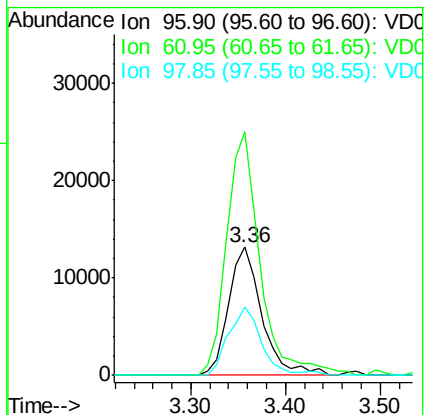
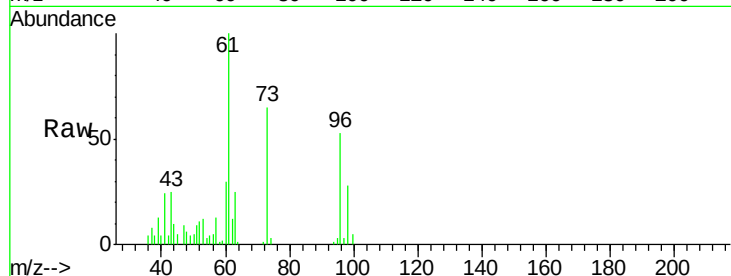
Tot Ion: 96 Resp: 32080

Ion Ratio Lower Upper

96 100

61 189.9 154.7 232.1

98 53.7 49.9 74.9



#22

Diisopropyl ether

Concen: 9.818 ug/l

RT: 4.04 min Scan# 387

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Tgt Ion: 45 Resp: 240702

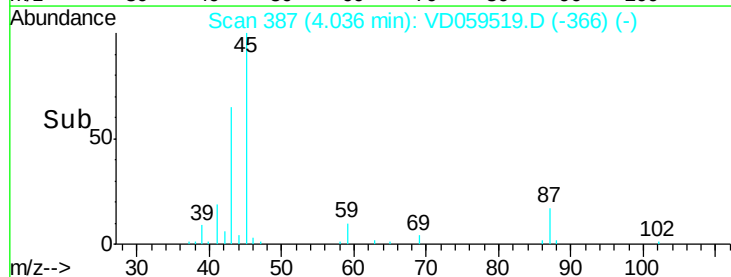
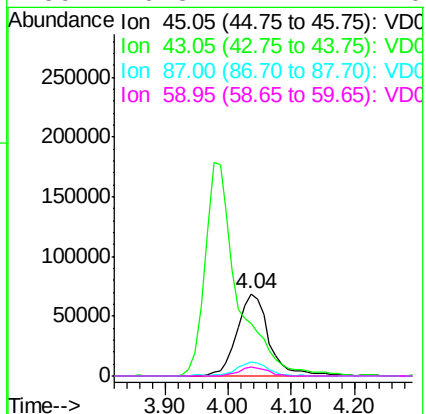
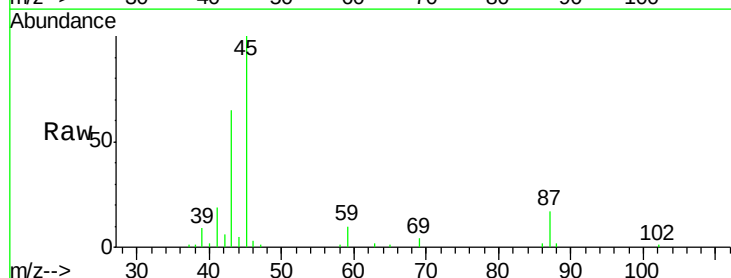
Ion Ratio Lower Upper

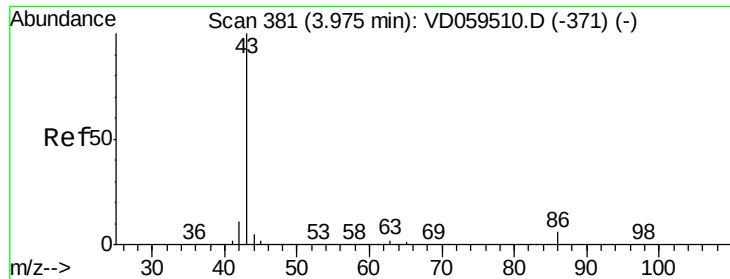
45 100

43 64.6 50.7 76.1

87 16.5 13.4 20.0

59 10.3 7.4 11.0





#23

Vinyl Acetate

Concen: 46.984 ug/l

RT: 3.98 min Scan# 381

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

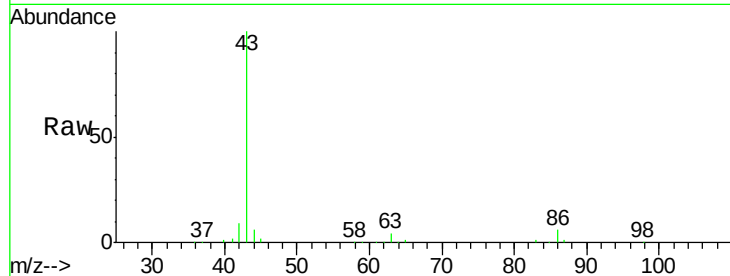
LOQ-SOIL-02-QT3-2018

Tot Ion: 43 Resp: 635621

Ion Ratio Lower Upper

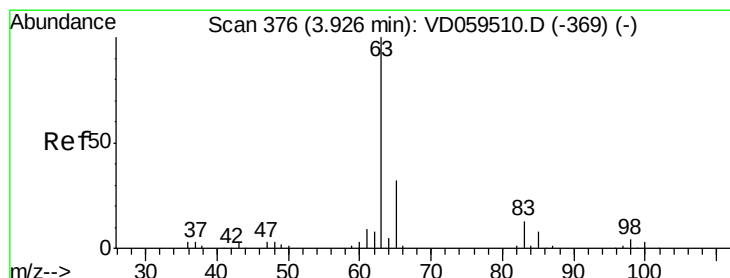
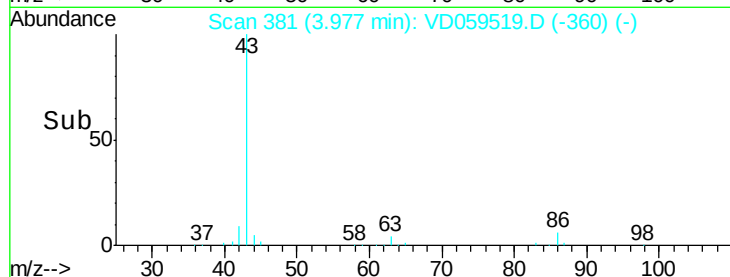
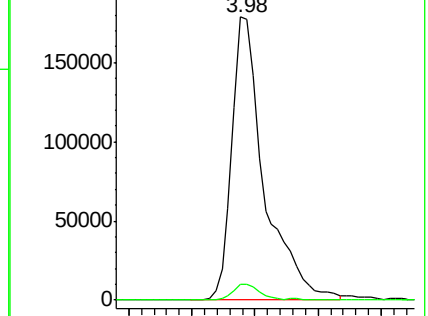
43 100

86 5.8 5.0 7.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 9.651 ug/l

RT: 3.94 min Scan# 377

Delta R.T. 0.01 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

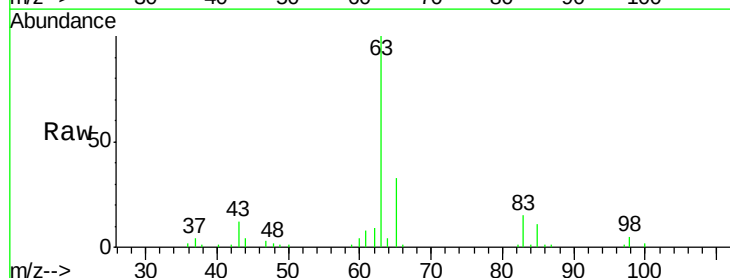
Tgt Ion: 63 Resp: 133967

Ion Ratio Lower Upper

63 100

98 4.8 2.0 5.8

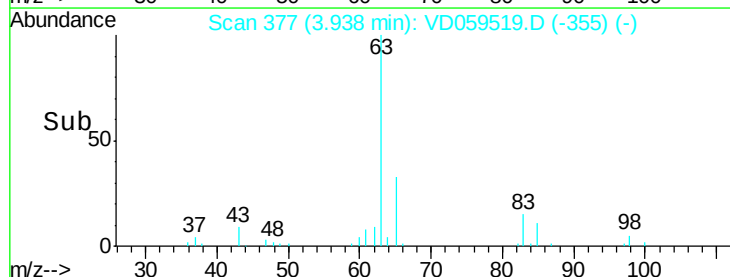
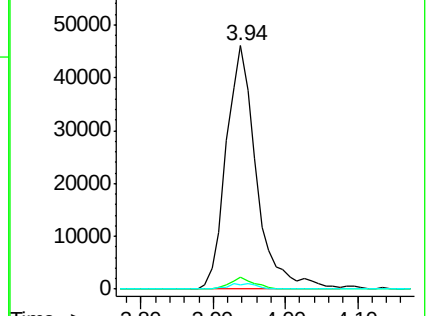
100 1.8 1.5 4.4

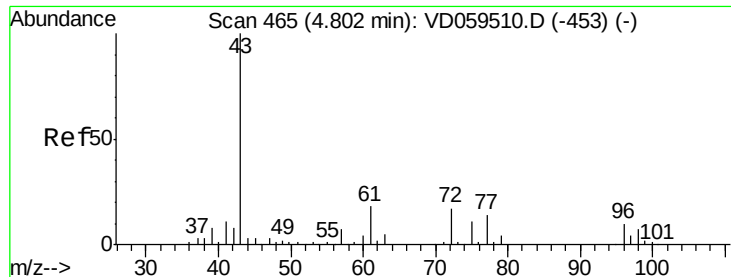


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 46.423 ug/l

RT: 4.80 min Scan# 465

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

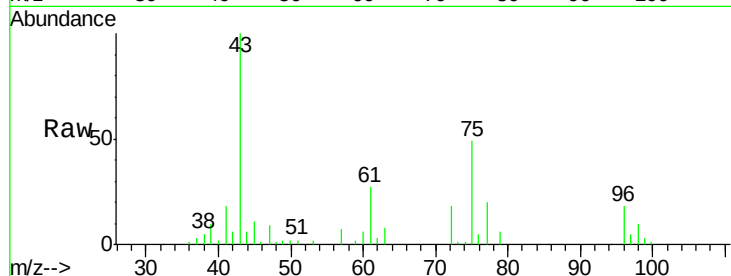
LOQ-SOIL-02-QT3-2018

Tot Ion: 43 Resp: 111496

Ion Ratio Lower Upper

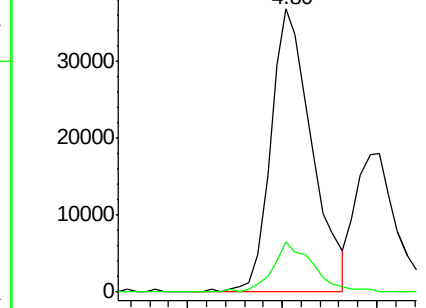
43 100

72 17.6 13.8 20.8

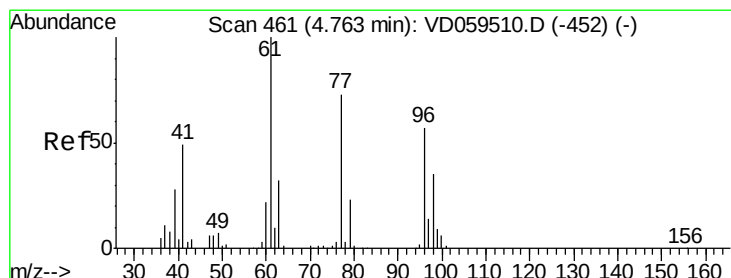
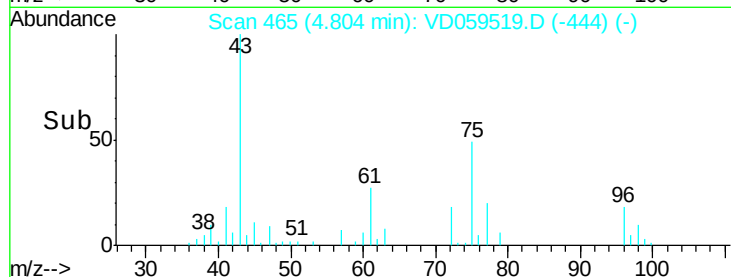


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



Time-->



#26

2,2-Dichloropropane

Concen: 9.014 ug/l

RT: 4.76 min Scan# 461

Delta R.T. 0.00 min

Lab File: VD059519.D

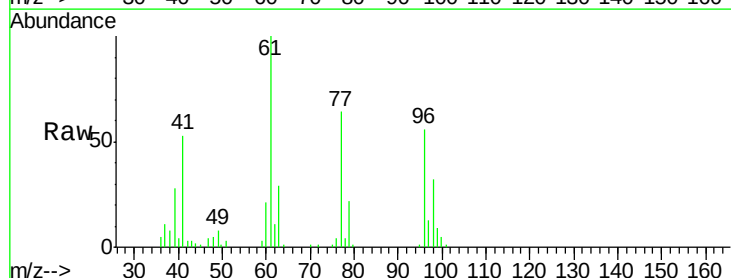
Acq: 2 Jul 2018 23:46

Tgt Ion: 77 Resp: 102289

Ion Ratio Lower Upper

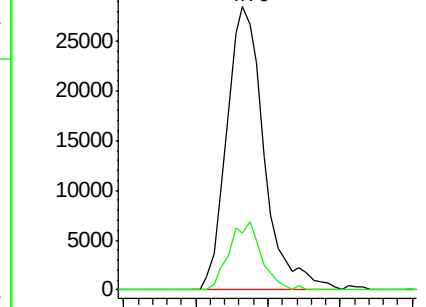
77 100

97 20.2 9.5 28.5

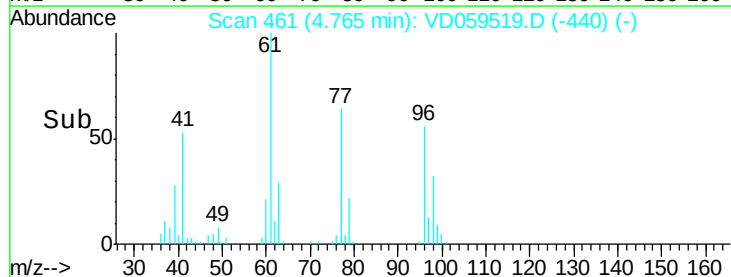


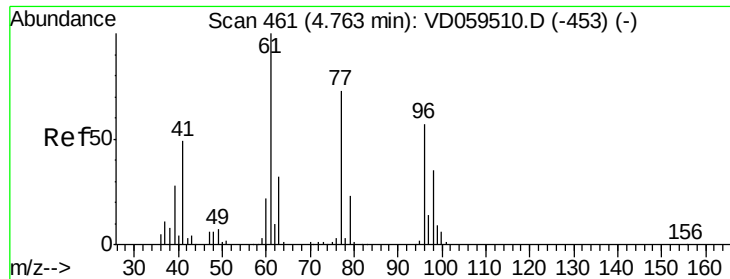
Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



Time-->



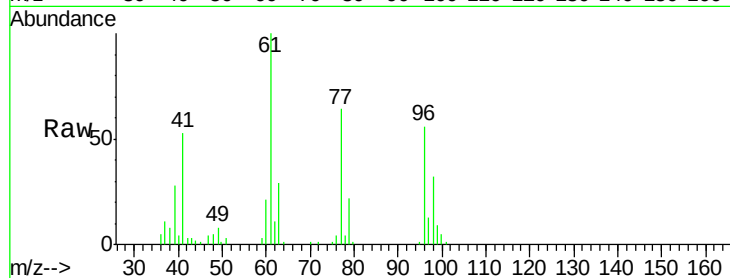


#27

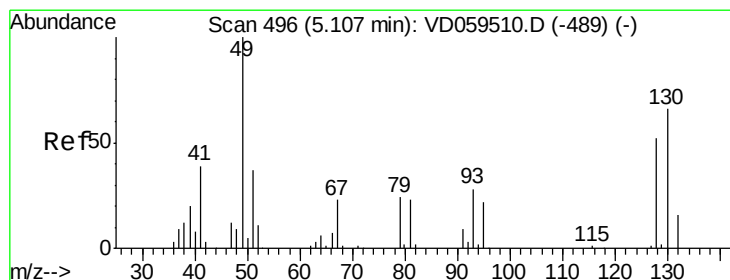
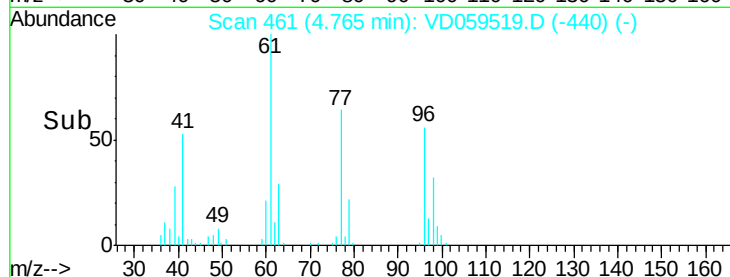
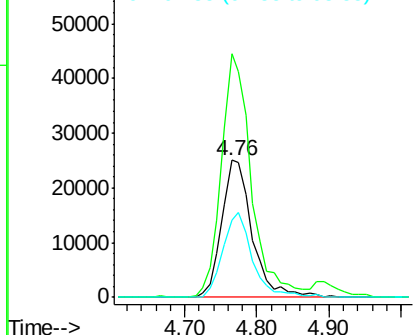
cis-1,2-Dichloroethene
Concen: 10.061 ug/l
RT: 4.76 min Scan# 461
Delta R.T. 0.00 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

Tot Ion: 96 Resp: 73277
Ion Ratio Lower Upper
96 100
61 177.3 0.0 350.8
98 56.4 0.0 123.4



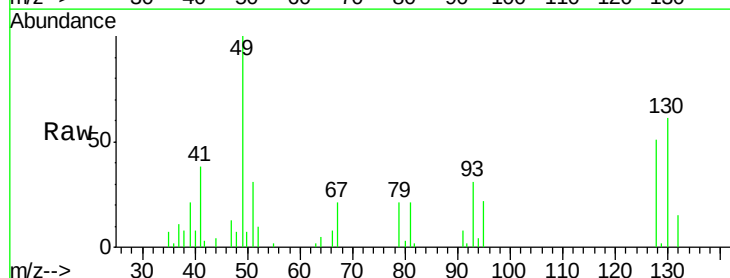
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



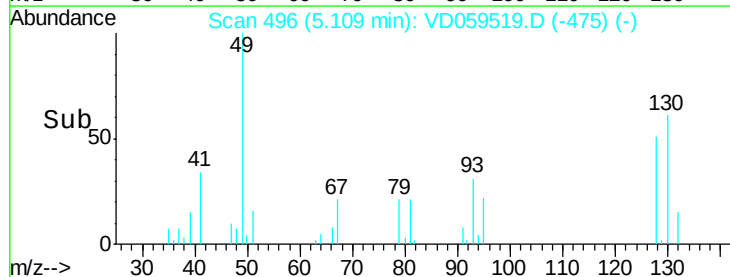
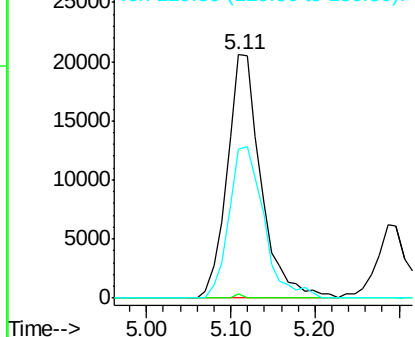
#28

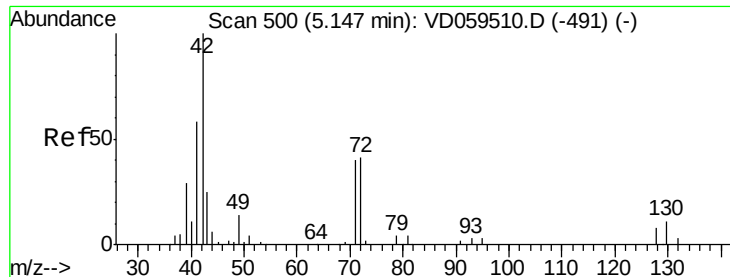
Bromochloromethane
Concen: 10.793 ug/l
RT: 5.11 min Scan# 496
Delta R.T. 0.00 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Tgt Ion: 49 Resp: 57475
Ion Ratio Lower Upper
49 100
129 1.6 0.0 4.4
130 61.4 52.6 78.8



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

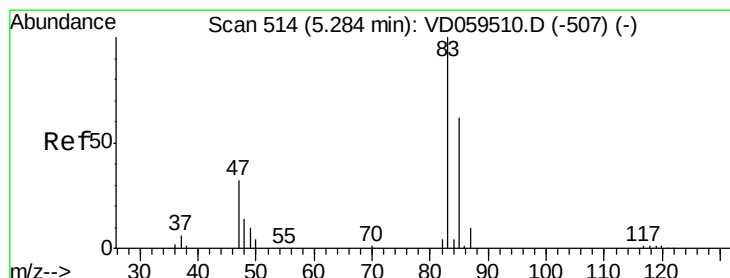
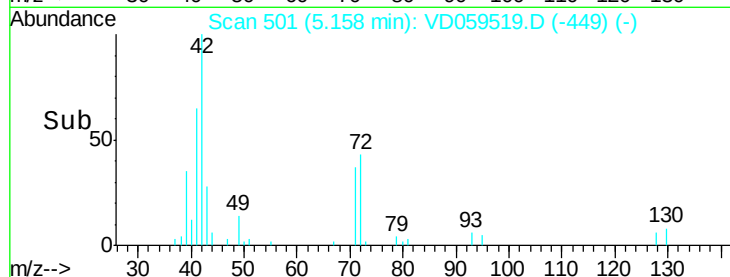
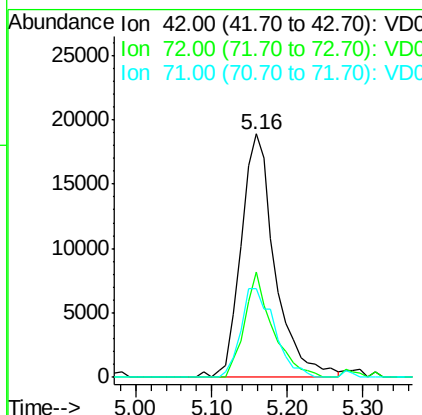
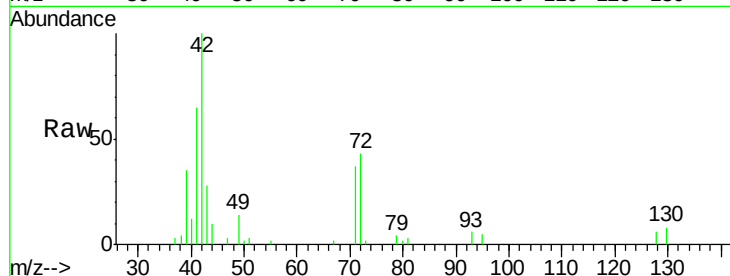




#29
Tetrahydrofuran
Concen: 47.865 ug/l
RT: 5.16 min Scan# 501
Delta R.T. 0.01 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

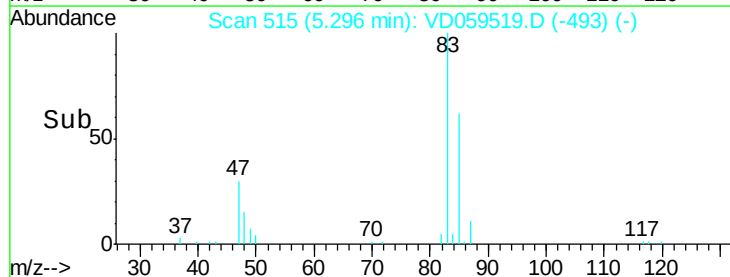
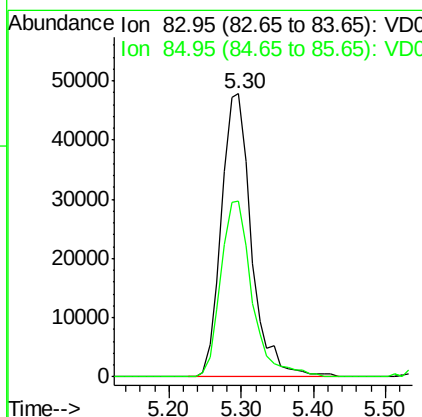
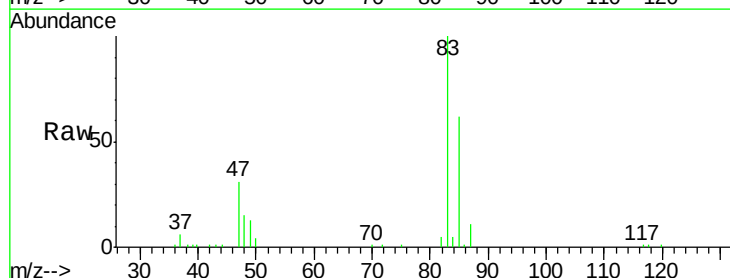
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

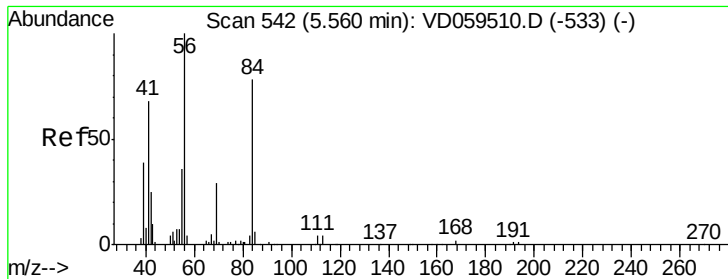
Tot Ion: 42 Resp: 58543
Ion Ratio Lower Upper
42 100
72 35.7 32.9 49.3
71 36.6 31.6 47.4



#30
Chloroform
Concen: 9.455 ug/l
RT: 5.30 min Scan# 515
Delta R.T. 0.01 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Tgt Ion: 83 Resp: 138439
Ion Ratio Lower Upper
83 100
85 62.0 49.8 74.6

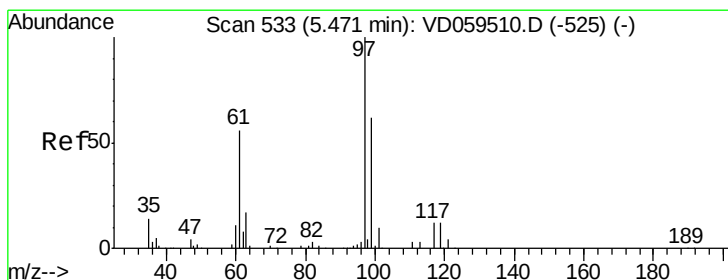
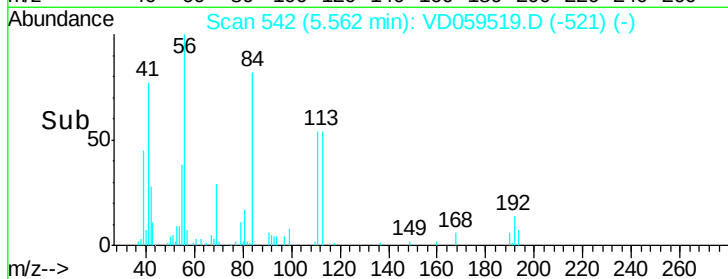
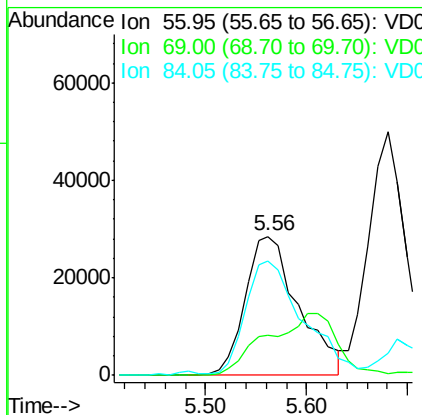
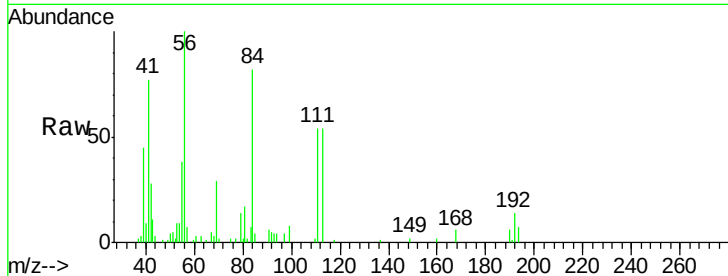




#31
Cyclohexane
Concen: 8.664 ug/l
RT: 5.56 min Scan# 542
Delta R.T. 0.00 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

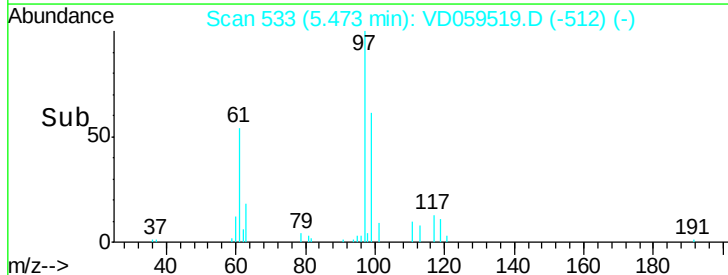
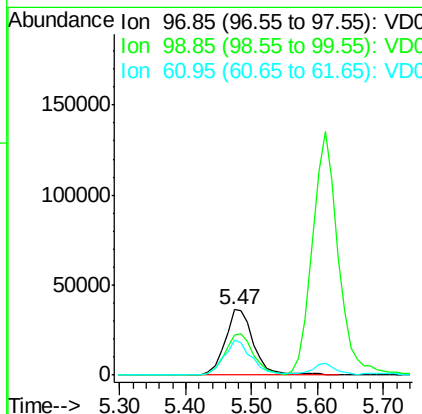
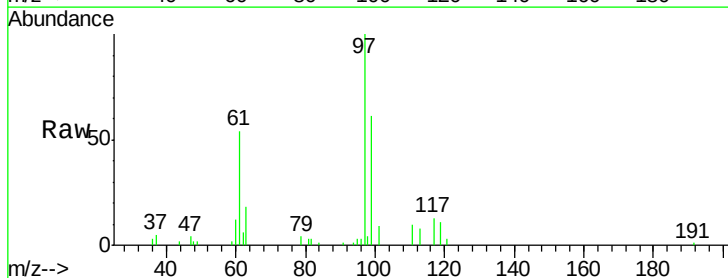
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

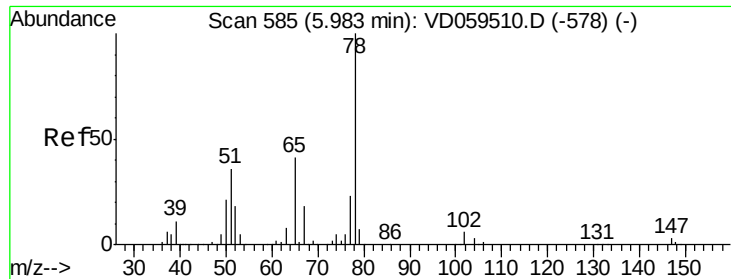
Tot Ion: 56 Resp: 105267
Ion Ratio Lower Upper
56 100
69 29.0 22.9 34.3
84 81.8 63.4 95.0



#32
1,1,1-Trichloroethane
Concen: 9.462 ug/l
RT: 5.47 min Scan# 533
Delta R.T. 0.00 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Tgt Ion: 97 Resp: 109777
Ion Ratio Lower Upper
97 100
99 60.8 49.6 74.4
61 54.0 44.8 67.2

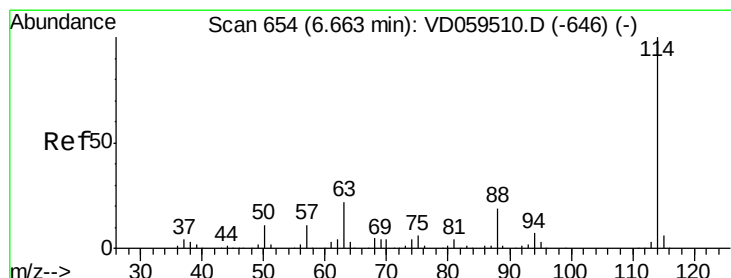
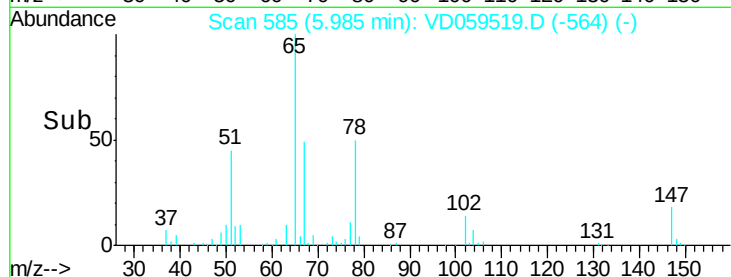
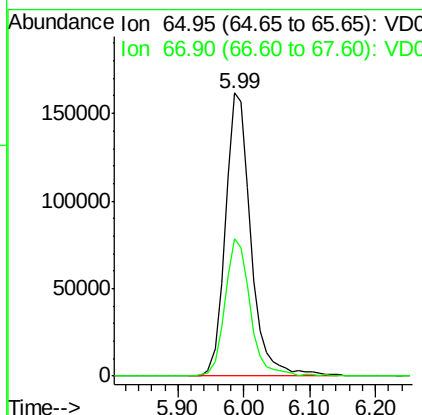
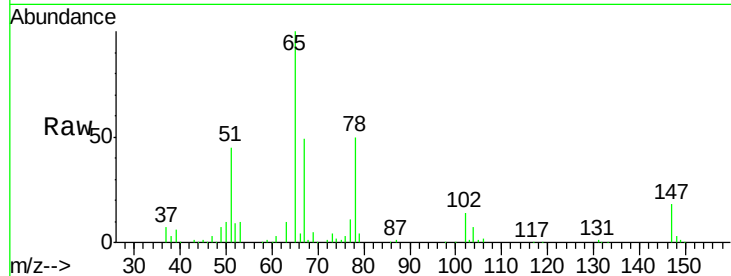




#33
 1,2-Dichloroethane-d4
 Concen: 9.462 ug/l
 RT: 5.99 min Scan# 585
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

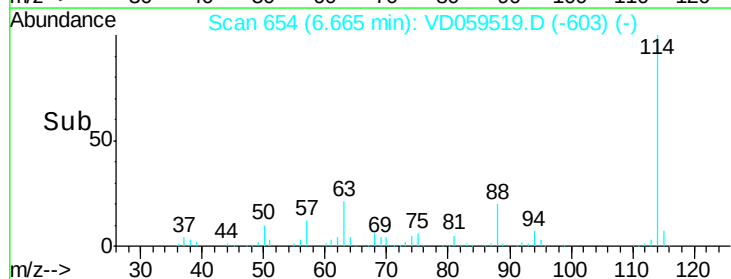
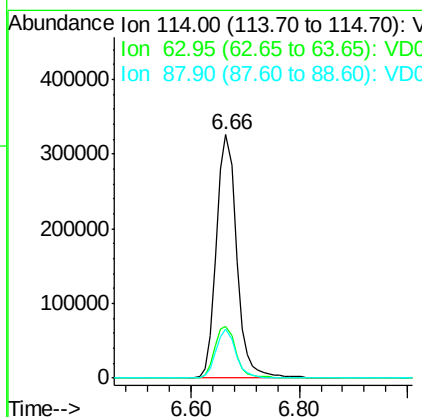
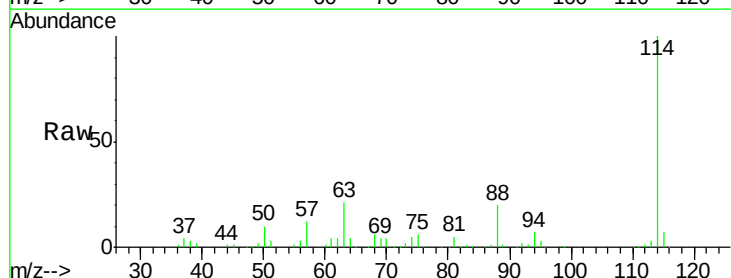
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

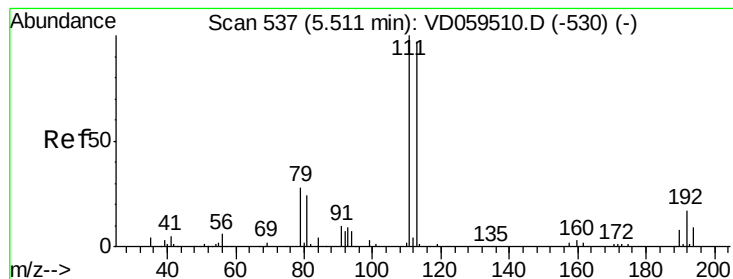
Tot Ion: 65 Resp: 437348
 Ion Ratio Lower Upper
 65 100
 67 48.5 0.0 90.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.66 min Scan# 654
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

Tgt Ion: 114 Resp: 849576
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 44.4
 88 19.9 0.0 37.8





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.52 min Scan# 538

Delta R.T. 0.01 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

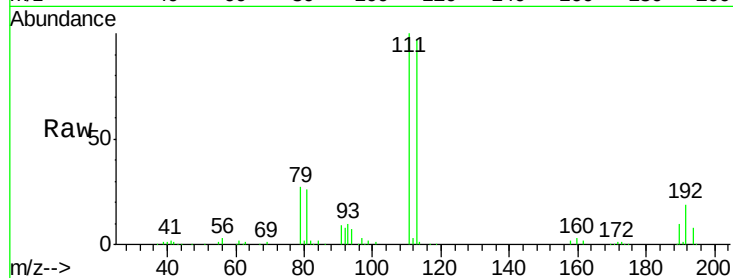
Tot Ion:113 Resp: 411364

Ion Ratio Lower Upper

113 100

111 102.9 82.7 124.1

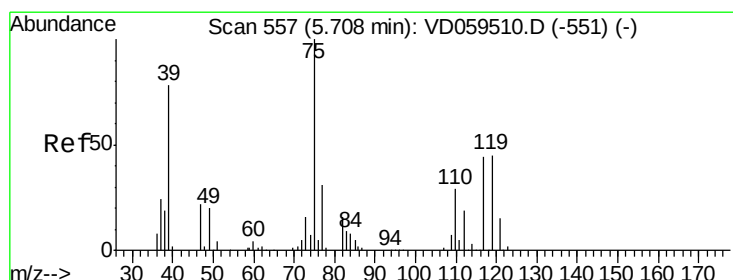
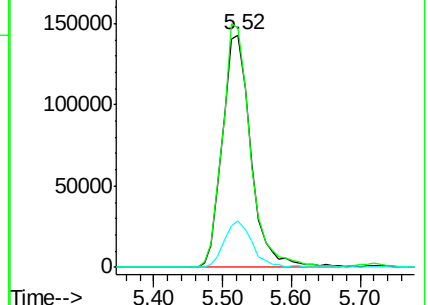
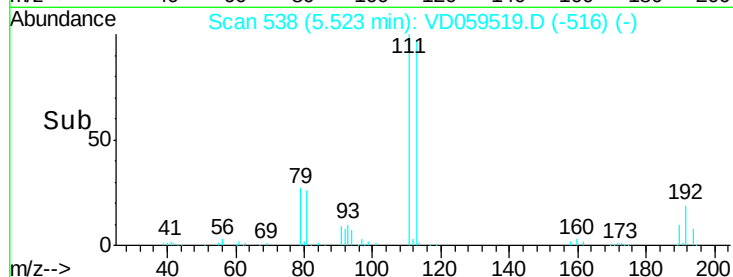
192 20.0 14.2 21.2



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 10.807 ug/l

RT: 5.71 min Scan# 557

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

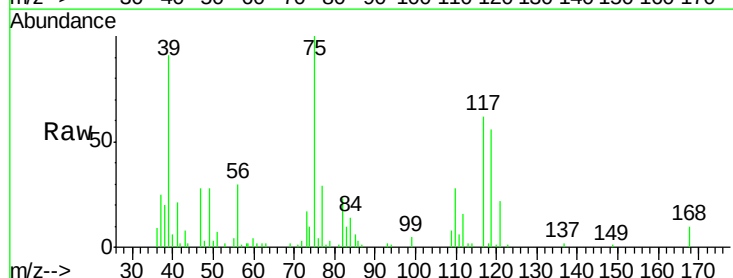
Tgt Ion: 75 Resp: 98590

Ion Ratio Lower Upper

75 100

110 28.3 14.4 43.4

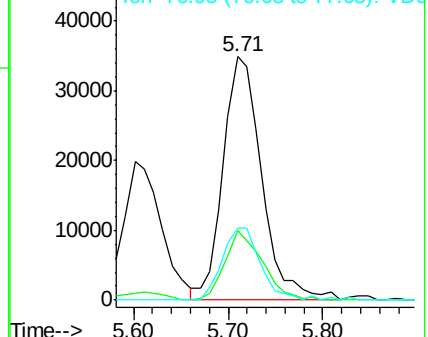
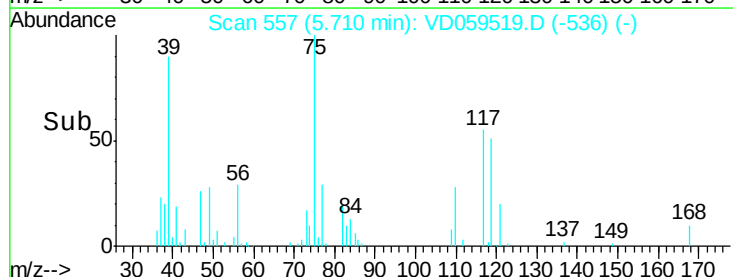
77 29.5 25.0 37.6

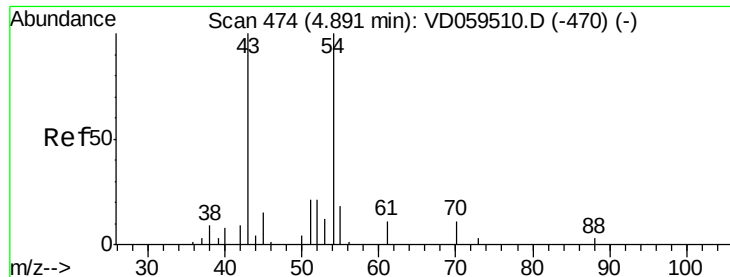


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

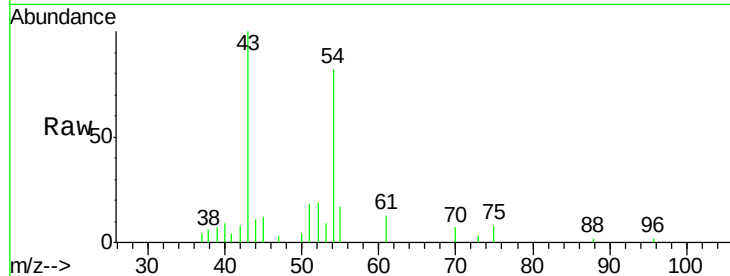




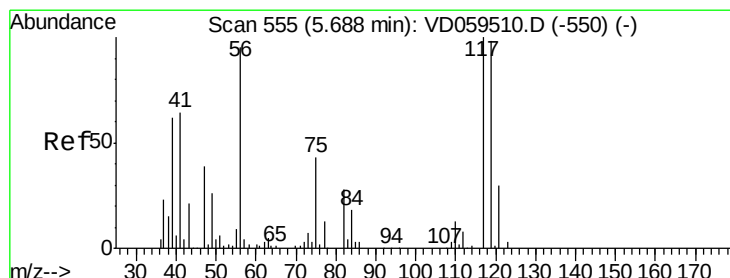
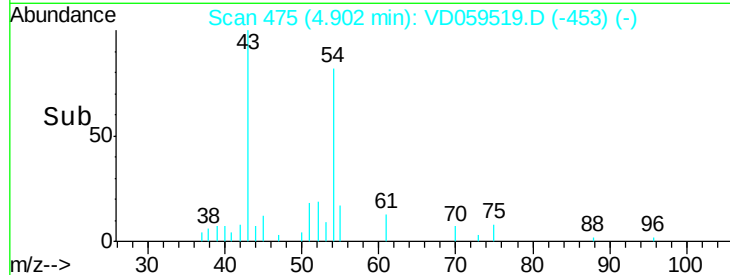
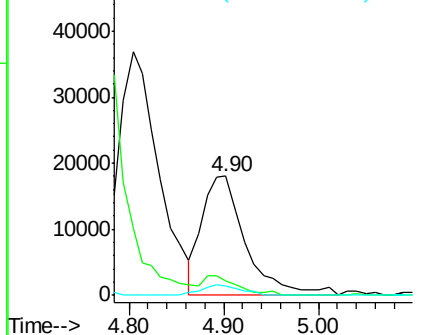
#37
Ethyl Acetate
Concen: 11.393 ug/l
RT: 4.90 min Scan# 475
Delta R.T. 0.01 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

Tot Ion: 43 Resp: 57815
Ion Ratio Lower Upper
43 100
61 12.5 11.5 17.3
70 7.5 6.8 10.2

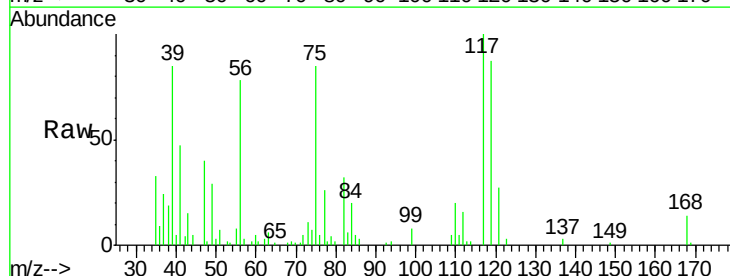


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

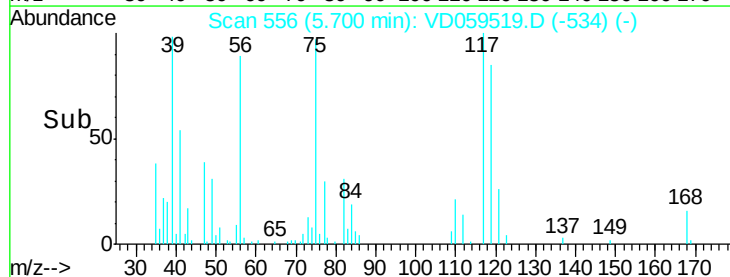
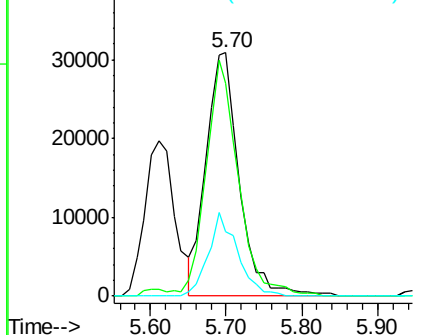


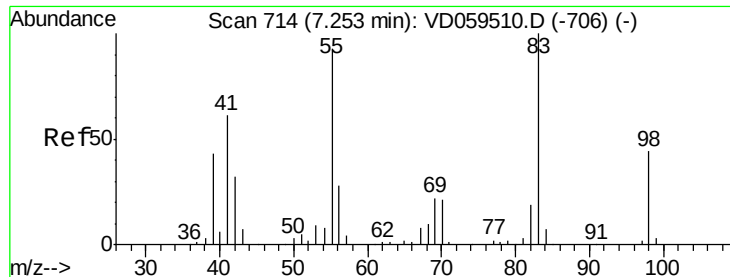
#38
Carbon Tetrachloride
Concen: 10.564 ug/l
RT: 5.70 min Scan# 556
Delta R.T. 0.01 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Tgt Ion: 117 Resp: 94734
Ion Ratio Lower Upper
117 100
119 87.2 76.4 114.6
121 26.6 23.9 35.9



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

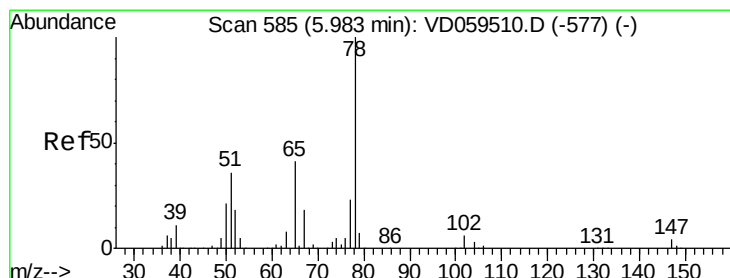
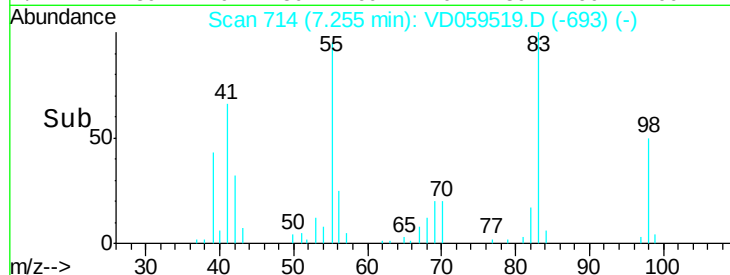
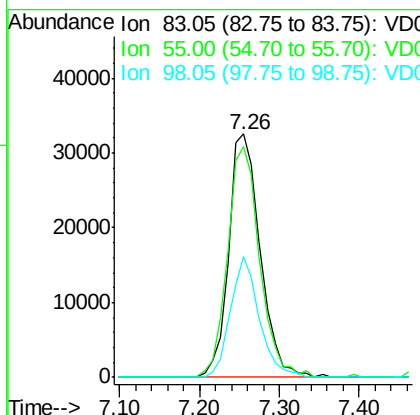
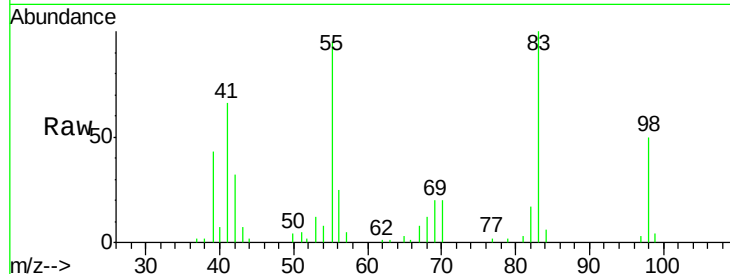




#39
Methylvlcyclohexane
Concen: 10.763 ug/l
RT: 7.26 min Scan# 714
Delta R.T. 0.00 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

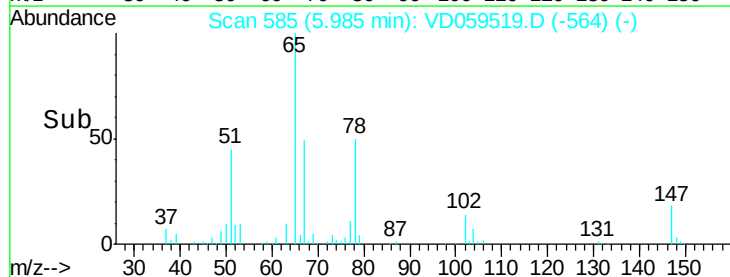
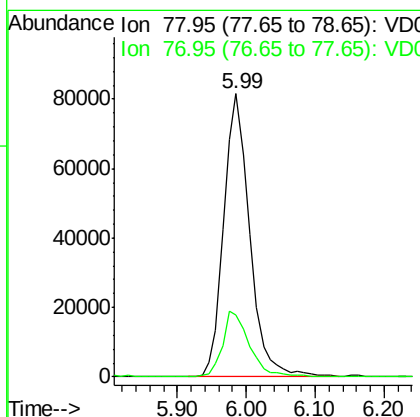
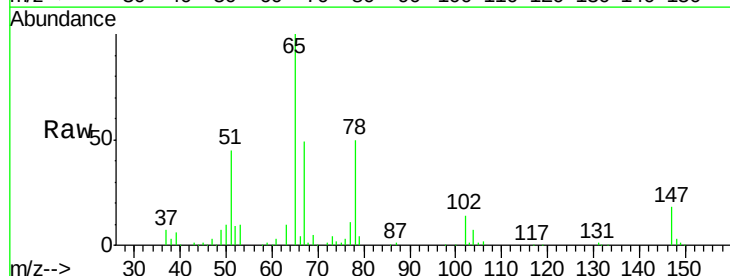
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

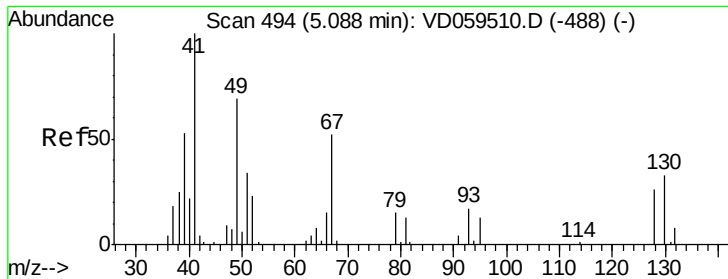
Tot Ion: 83 Resp: 89437
Ion Ratio Lower Upper
83 100
55 94.8 74.2 111.4
98 49.6 35.5 53.3



#40
Benzene
Concen: 10.181 ug/l
RT: 5.99 min Scan# 585
Delta R.T. 0.00 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Tgt Ion: 78 Resp: 213773
Ion Ratio Lower Upper
78 100
77 22.1 18.6 27.8





#41

Methacrylonitrile

Concen: 11.388 ug/l

RT: 5.09 min Scan# 494

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion: 41 Resp: 29314

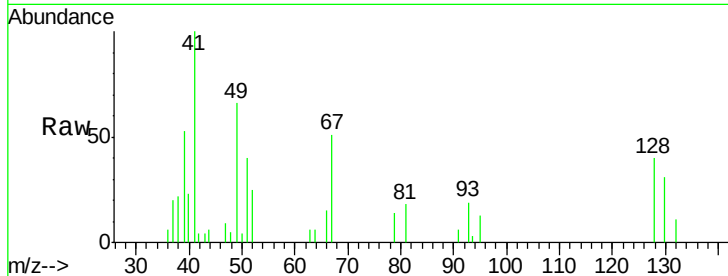
Ion Ratio Lower Upper

41 100

39 52.7 43.0 64.4

67 50.7 41.4 62.2

52 25.1 18.6 28.0

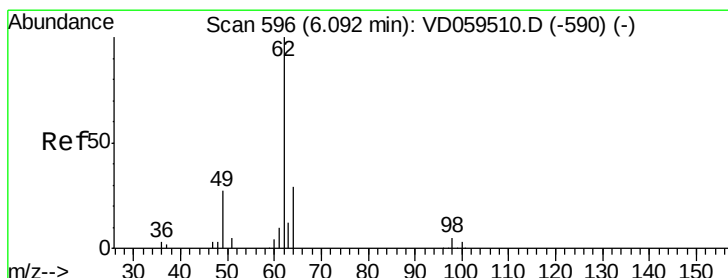
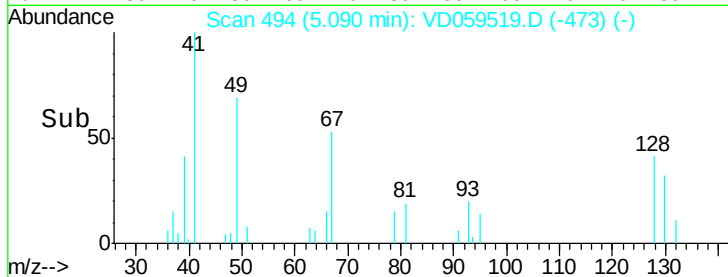
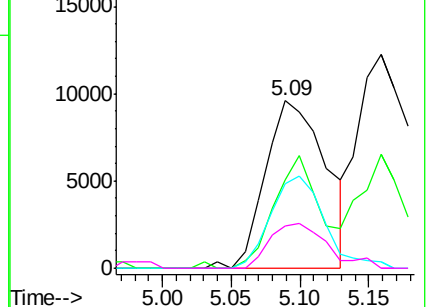


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 10.051 ug/l

RT: 6.10 min Scan# 597

Delta R.T. 0.01 min

Lab File: VD059519.D

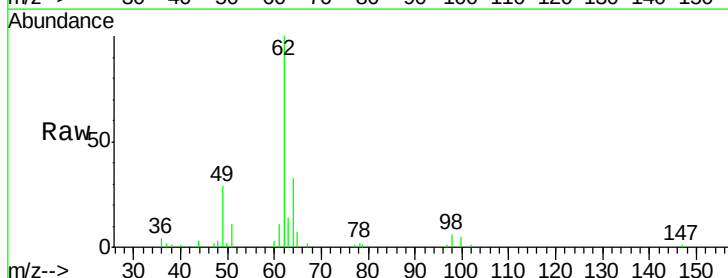
Acq: 2 Jul 2018 23:46

Tgt Ion: 62 Resp: 94410

Ion Ratio Lower Upper

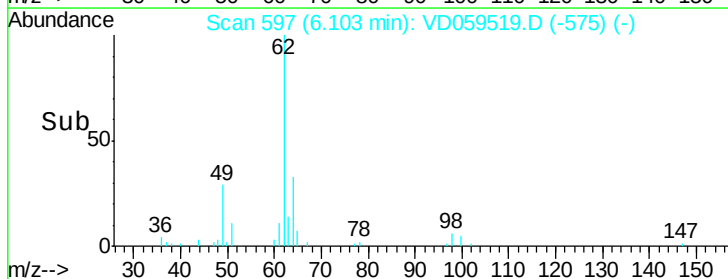
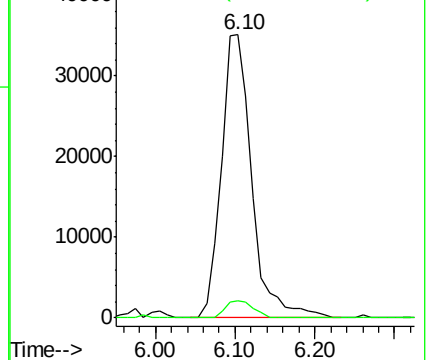
62 100

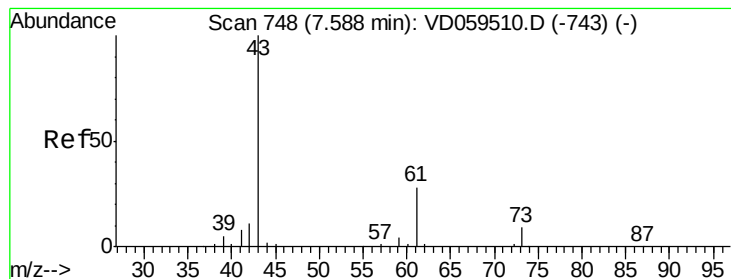
98 6.2 0.0 10.0



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 10.221 ug/l

RT: 7.60 min Scan# 749

Delta R.T. 0.01 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

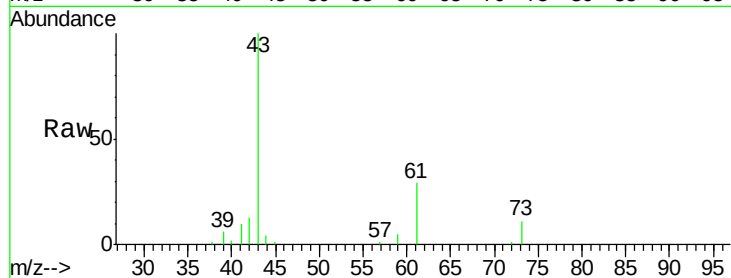
Tot Ion: 43 Resp: 68631

Ion Ratio Lower Upper

43 100

61 29.2 22.3 33.5

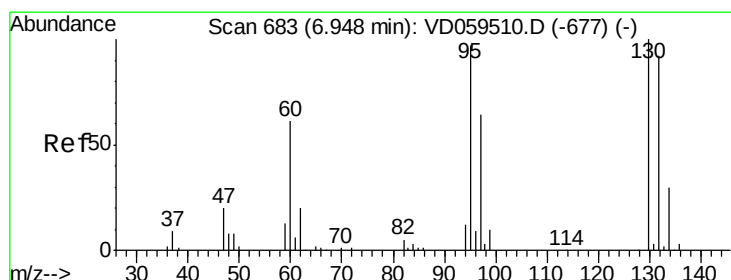
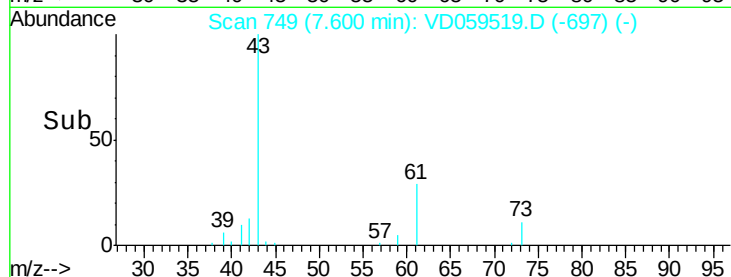
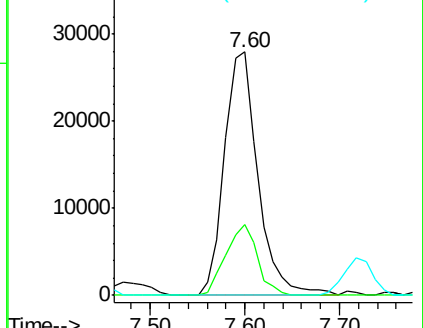
87 0.0 0.4 0.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 10.761 ug/l

RT: 6.95 min Scan# 683

Delta R.T. 0.00 min

Lab File: VD059519.D

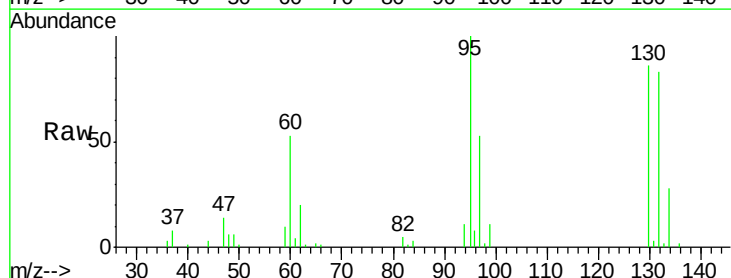
Acq: 2 Jul 2018 23:46

Tgt Ion:130 Resp: 68581

Ion Ratio Lower Upper

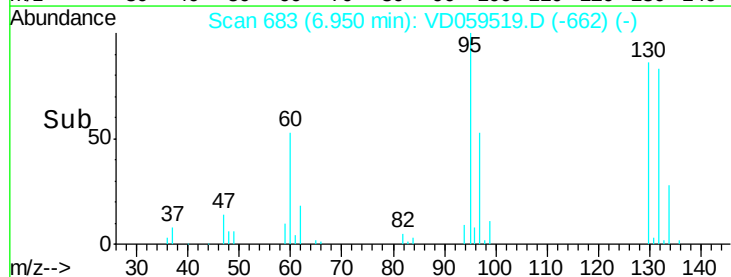
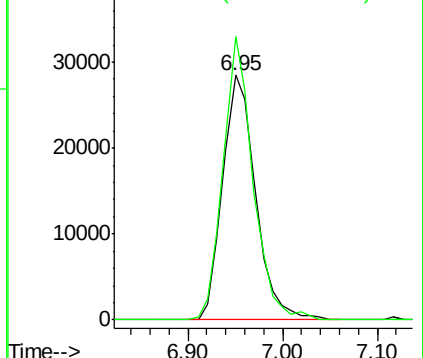
130 100

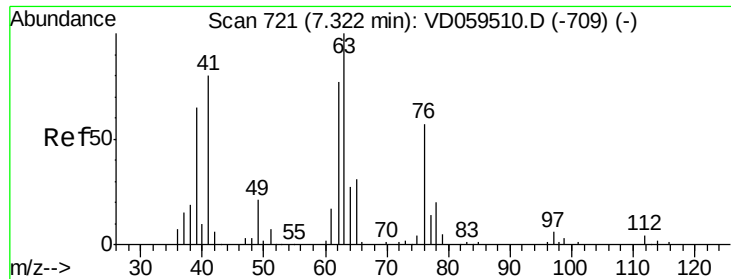
95 115.8 0.0 193.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC

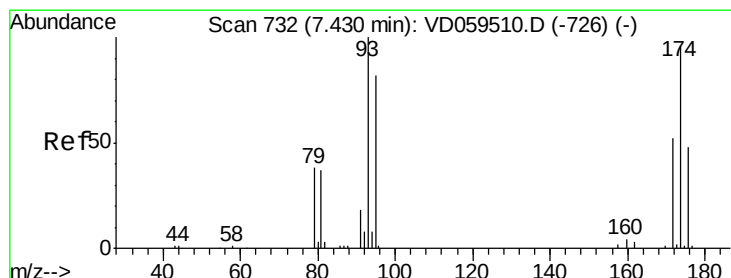
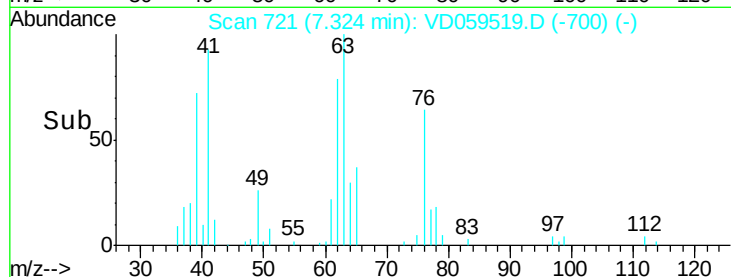
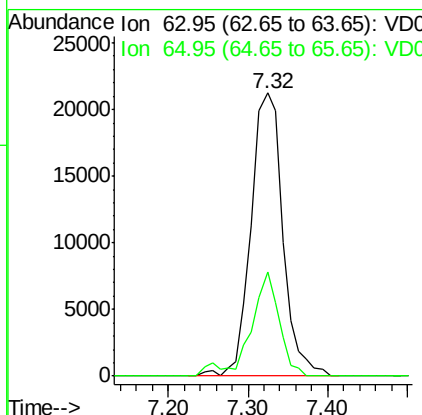
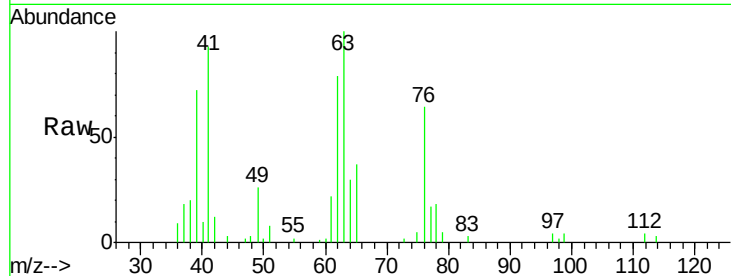




#45
 1,2-Dichloropropane
 Concen: 9.952 ug/l
 RT: 7.32 min Scan# 721
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

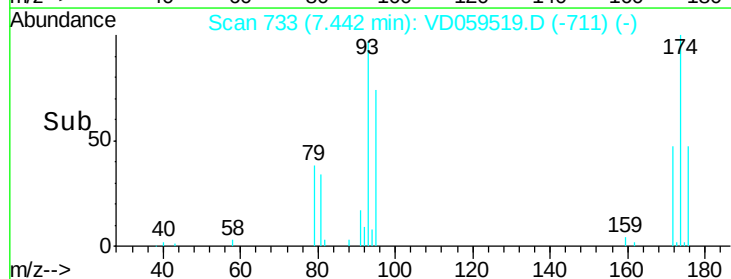
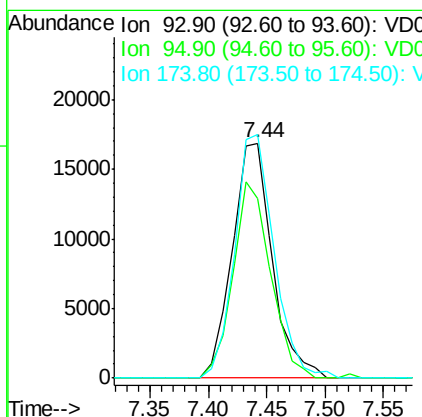
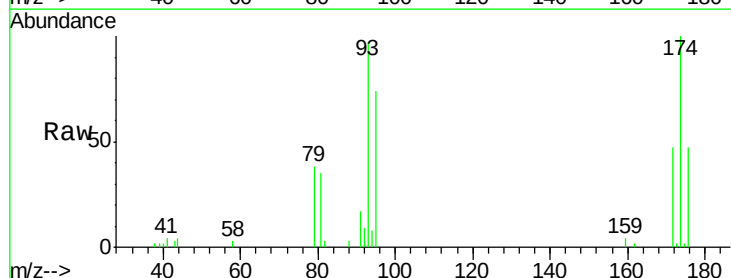
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

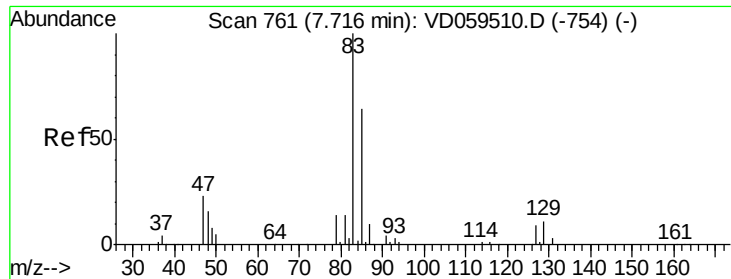
Tot Ion: 63 Resp: 58413
 Ion Ratio Lower Upper
 63 100
 65 37.0 24.4 36.6#



#46
 Dibromomethane
 Concen: 10.132 ug/l
 RT: 7.44 min Scan# 733
 Delta R.T. 0.01 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

Tgt Ion: 93 Resp: 40242
 Ion Ratio Lower Upper
 93 100
 95 76.2 65.7 98.5
 174 103.6 77.2 115.8





#47

Bromodichloromethane

Concen: 10.349 ug/l

RT: 7.72 min Scan# 761

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

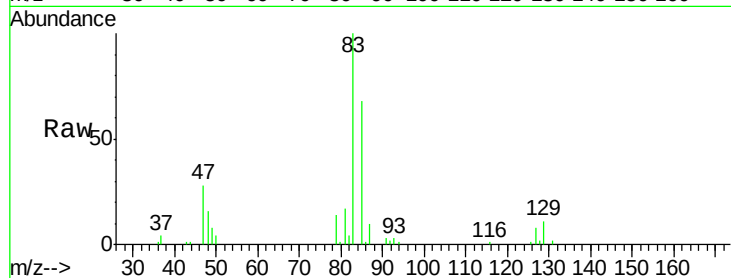
Tot Ion: 83 Resp: 95677

Ion Ratio Lower Upper

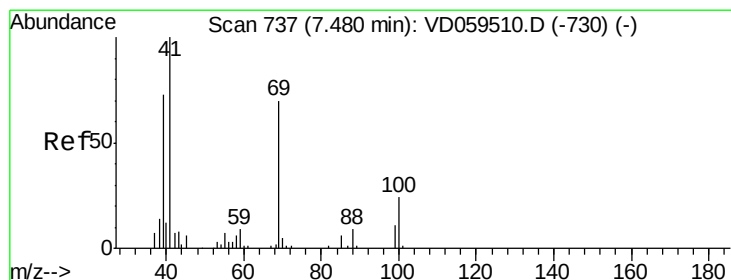
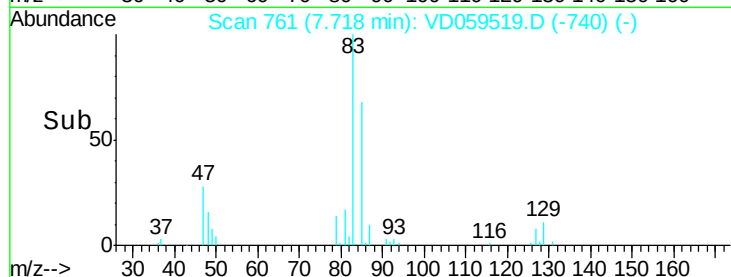
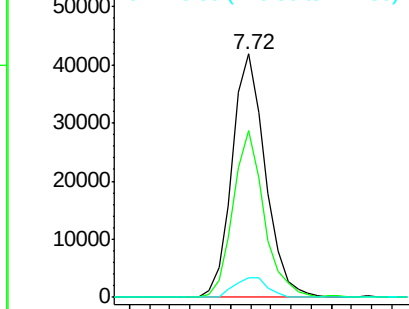
83 100

85 68.4 51.0 76.4

127 7.9 7.0 10.6



Abundance Ion 82.85 (82.55 to 83.55): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 126.80 (126.50 to 127.50): VDC



#48

Methyl methacrylate

Concen: 10.355 ug/l

RT: 7.48 min Scan# 737

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

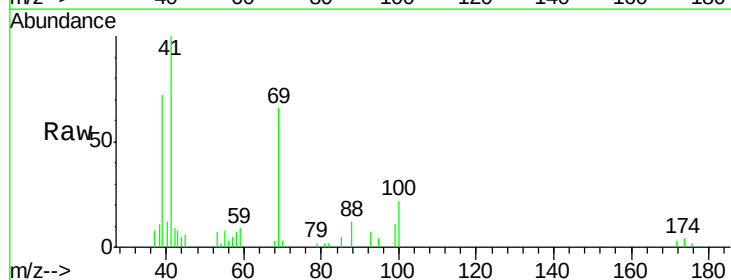
Tgt Ion: 41 Resp: 43365

Ion Ratio Lower Upper

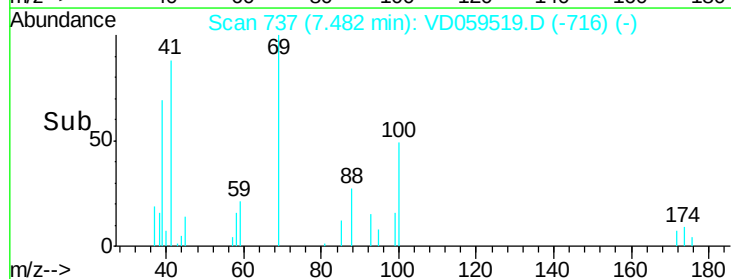
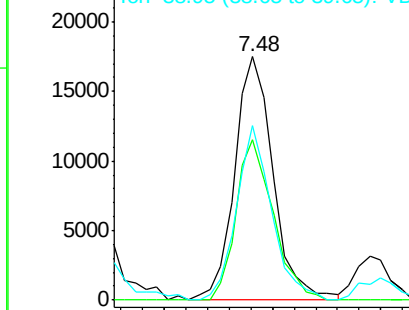
41 100

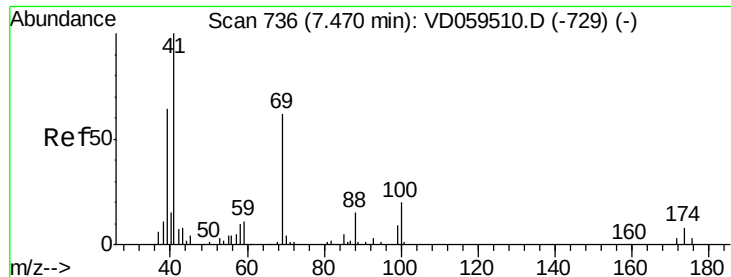
69 65.9 55.8 83.8

39 71.7 58.7 88.1



Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 38.95 (38.65 to 39.65): VDC

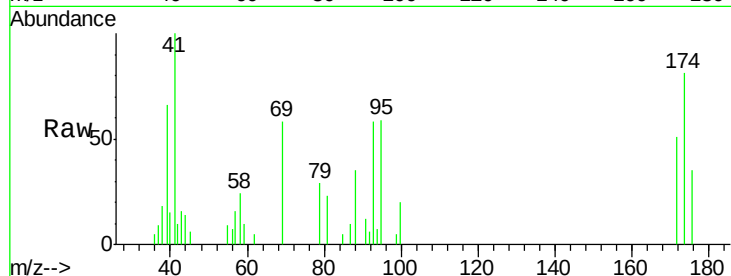




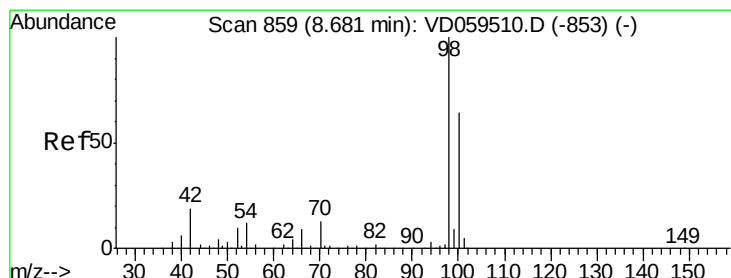
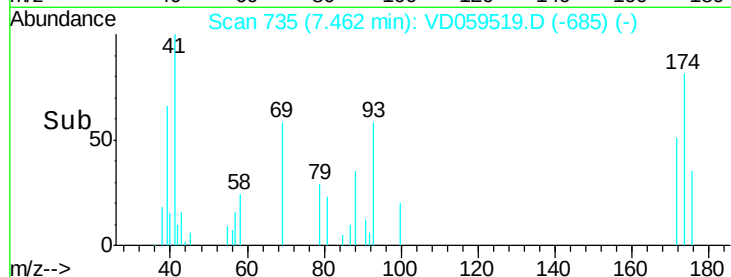
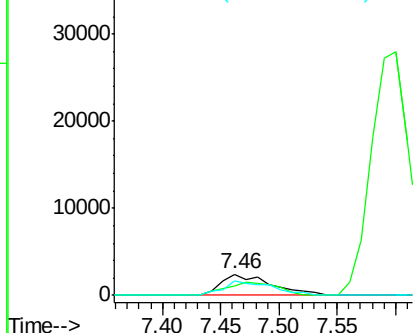
#49
1,4-Dioxane
Concen: 182.896 ug/l
RT: 7.46 min Scan# 735
Delta R.T. -0.01 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

Tot Ion: 88 Resp: 7137
Ion Ratio Lower Upper
88 100
43 47.0 41.4 62.0
58 69.1 49.4 74.2

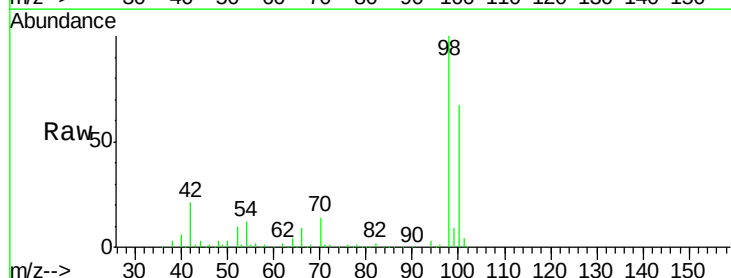


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

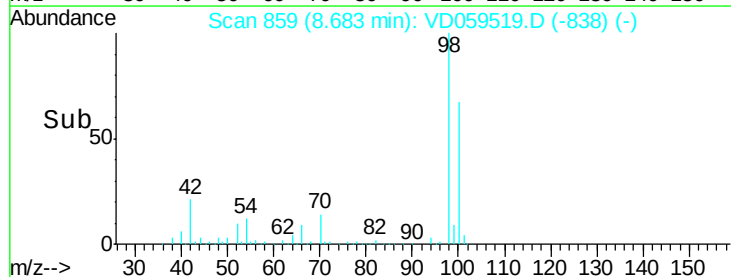
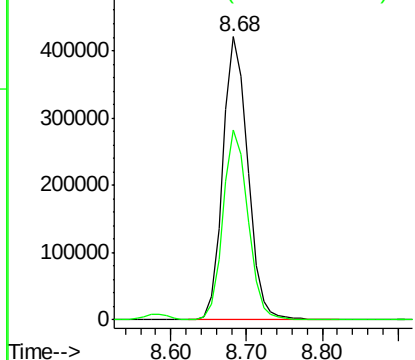


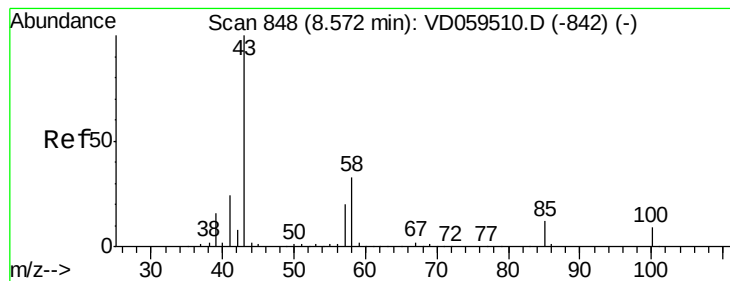
#50
Toluene-d8
Concen: 182.896 ug/l
RT: 8.68 min Scan# 859
Delta R.T. 0.00 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Tgt Ion: 98 Resp: 962049
Ion Ratio Lower Upper
98 100
100 67.0 51.8 77.8



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 52.266 ug/l

RT: 8.57 min Scan# 848

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

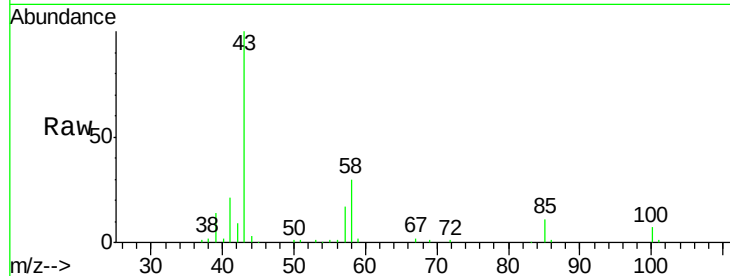
LOQ-SOIL-02-QT3-2018

Tot Ion: 43 Resp: 229191

Ion Ratio Lower Upper

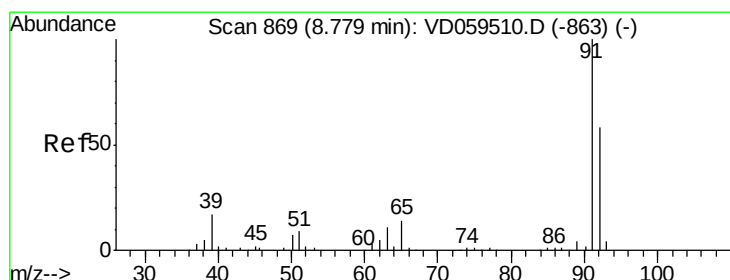
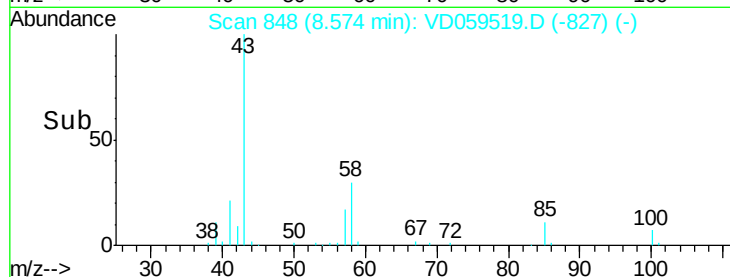
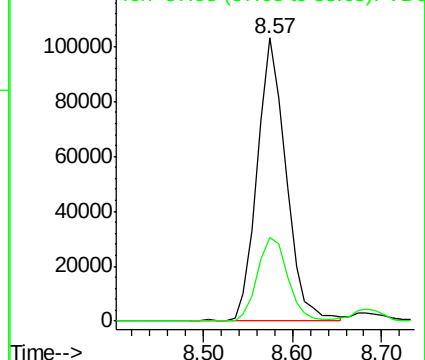
43 100

58 29.6 26.7 40.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 10.740 ug/l

RT: 8.78 min Scan# 869

Delta R.T. 0.00 min

Lab File: VD059519.D

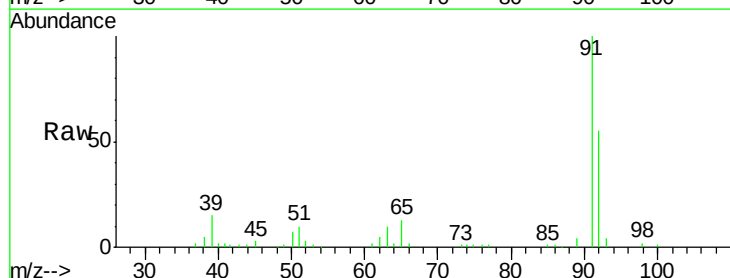
Acq: 2 Jul 2018 23:46

Tgt Ion: 92 Resp: 124484

Ion Ratio Lower Upper

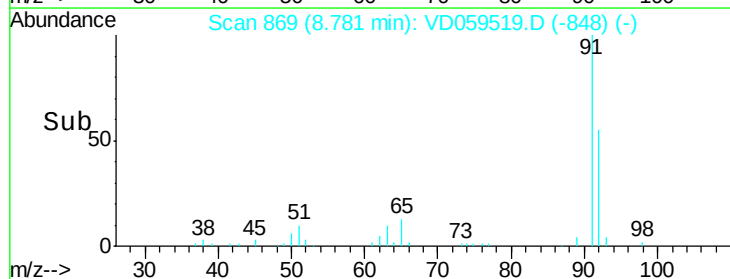
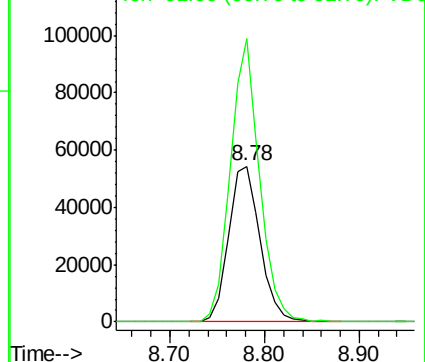
92 100

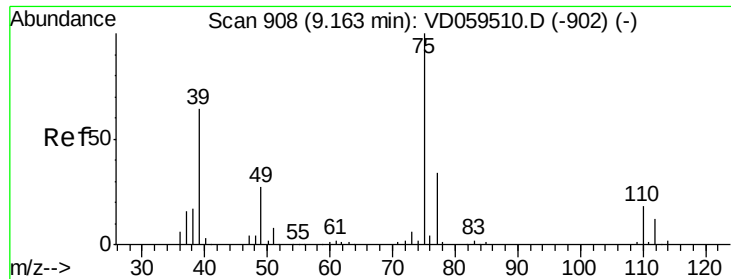
91 181.4 138.8 208.2



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

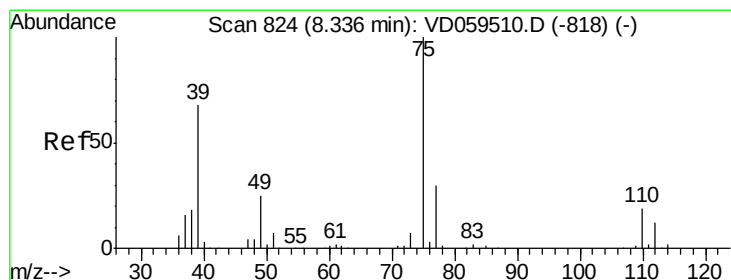
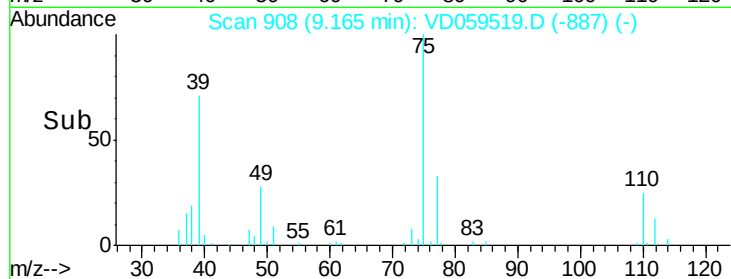
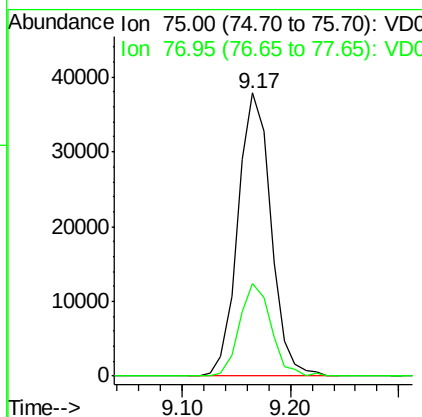
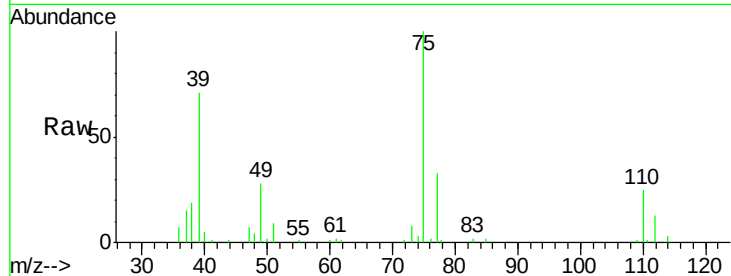




#53
t-1,3-Dichloropropene
Concen: 9.989 ug/l
RT: 9.17 min Scan# 908
Delta R.T. 0.00 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

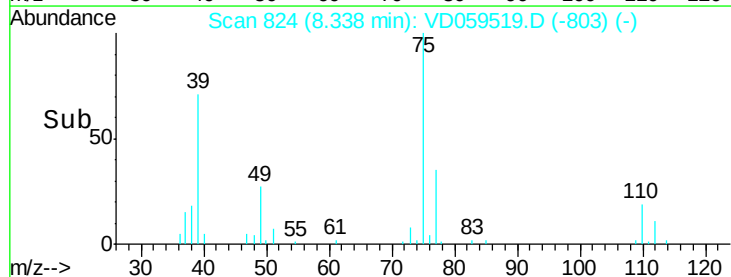
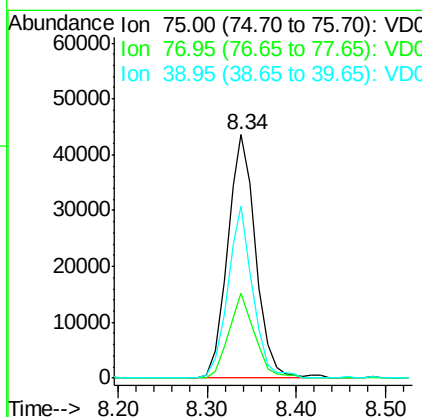
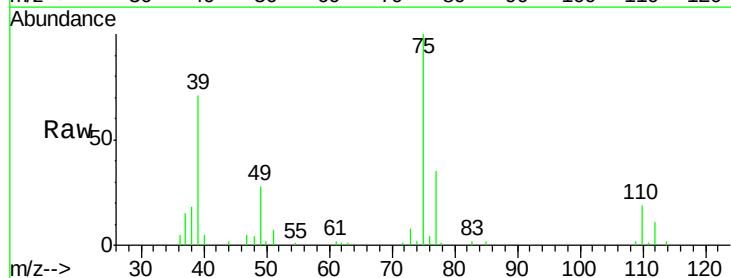
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

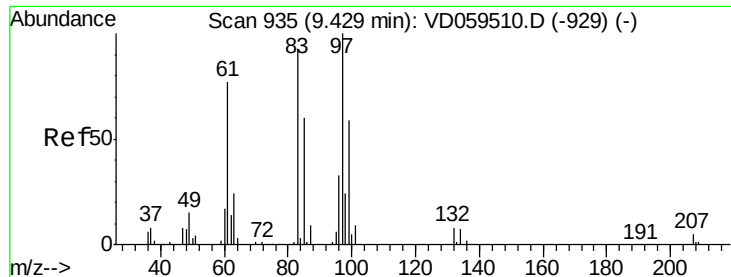
Tot Ion: 75 Resp: 80431
Ion Ratio Lower Upper
75 100
77 32.6 26.9 40.3



#54
cis-1,3-Dichloropropene
Concen: 10.256 ug/l
RT: 8.34 min Scan# 824
Delta R.T. 0.00 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Tgt Ion: 75 Resp: 95769
Ion Ratio Lower Upper
75 100
77 35.1 24.4 36.6
39 70.7 54.7 82.1





#55

1,1,2-Trichloroethane

Concen: 10.158 ug/l

RT: 9.43 min Scan# 935

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion: 97 Resp: 43177

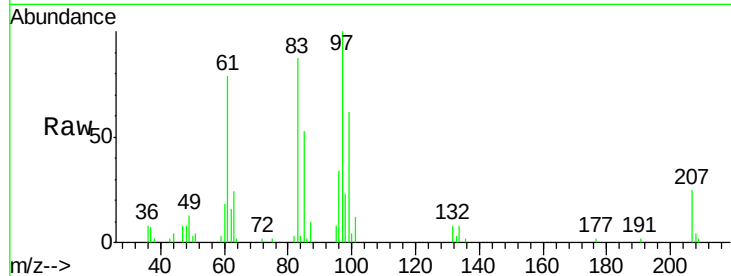
Ion	Ratio	Lower	Upper
97	100		
83	86.5	74.3	111.5
85	53.2	48.1	72.1
99	62.2	47.2	70.8

97 100

83 86.5 74.3 111.5

85 53.2 48.1 72.1

99 62.2 47.2 70.8

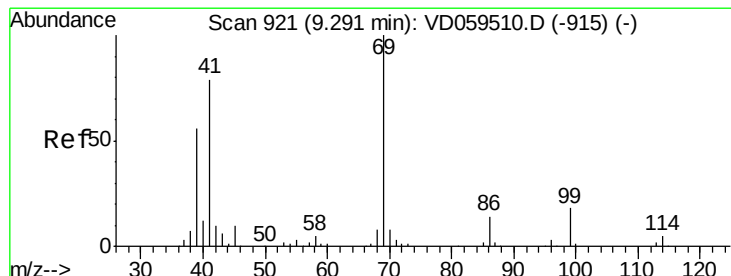
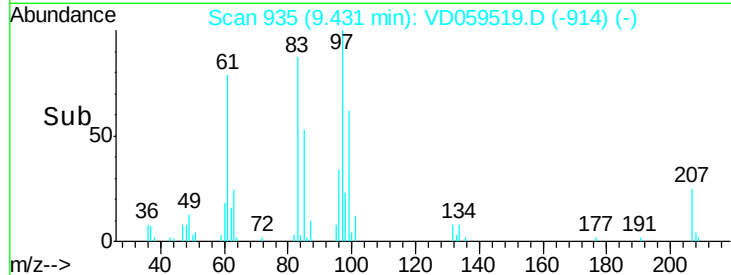
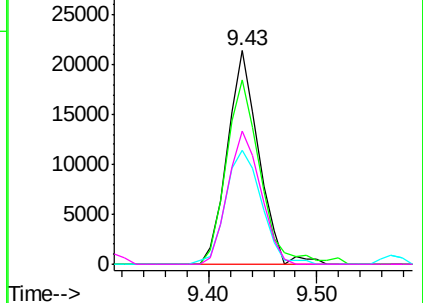


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#56

Ethyl methacrylate

Concen: 10.522 ug/l

RT: 9.29 min Scan# 921

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

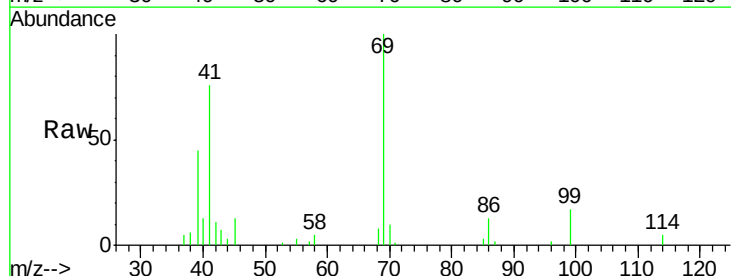
Tgt Ion: 69 Resp: 56032

Ion	Ratio	Lower	Upper
69	100		
41	76.3	63.4	95.0
39	44.9	45.0	67.6#

69 100

41 76.3 63.4 95.0

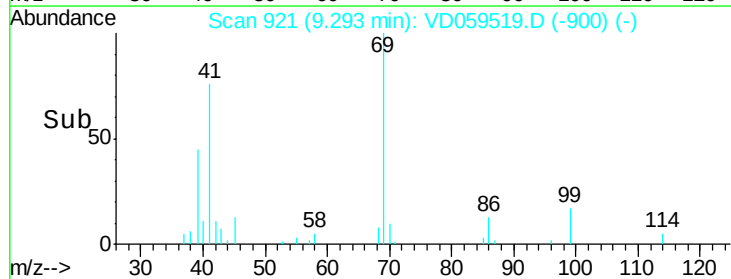
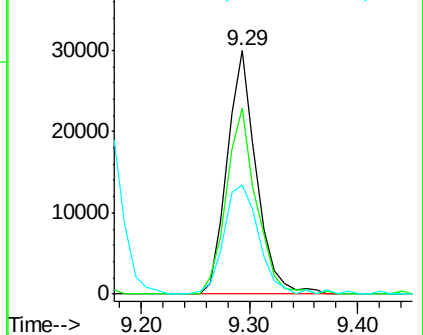
39 44.9 45.0 67.6#

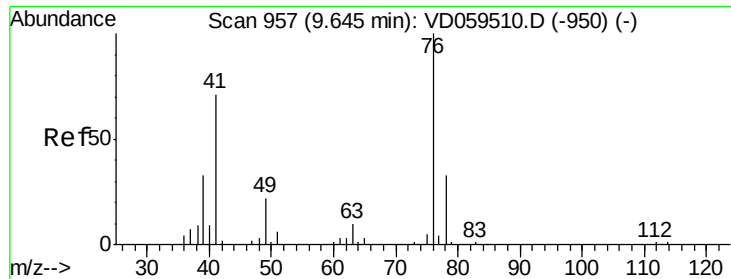


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

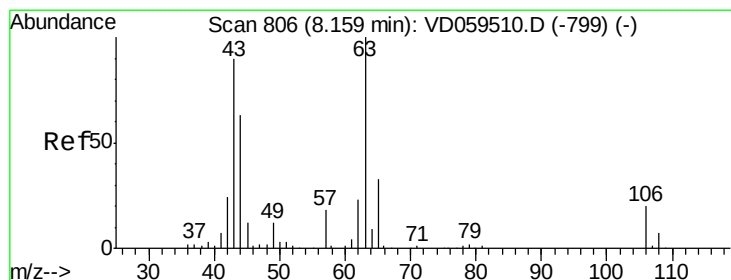
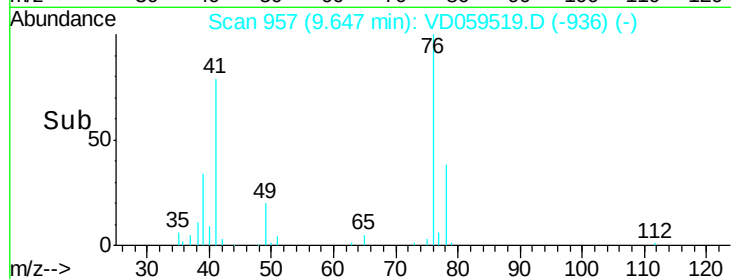
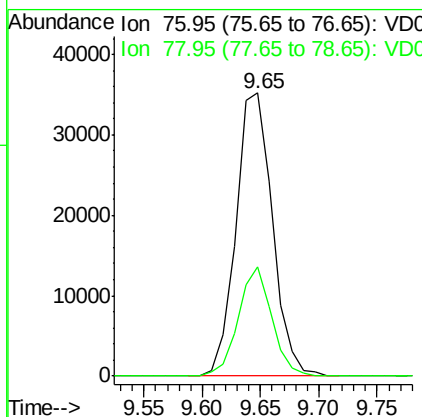
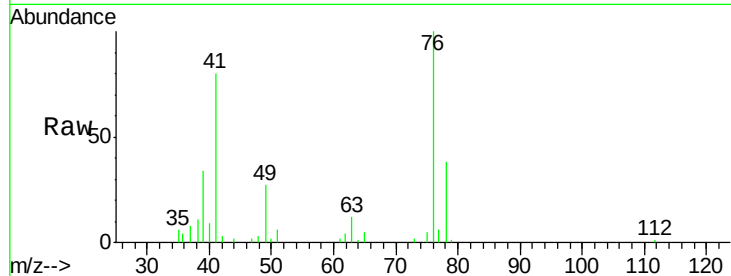




#57
 1,3-Dichloropropane
 Concen: 9.946 ug/l
 RT: 9.65 min Scan# 957
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

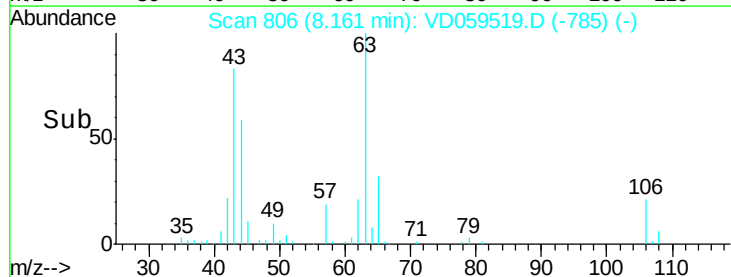
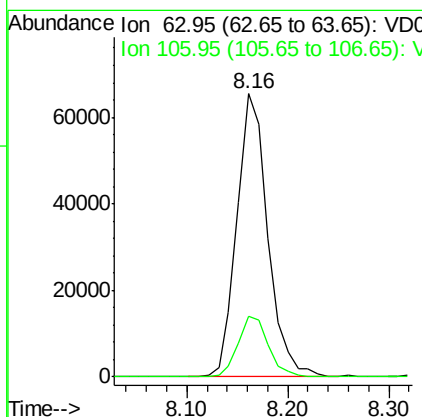
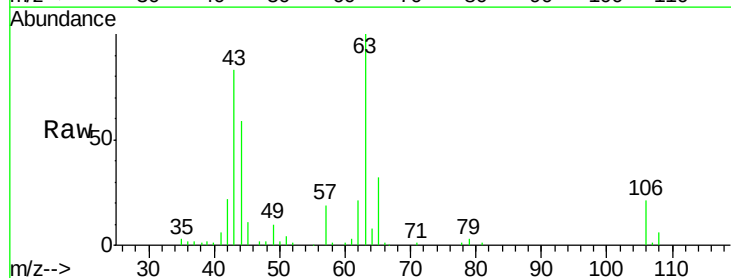
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

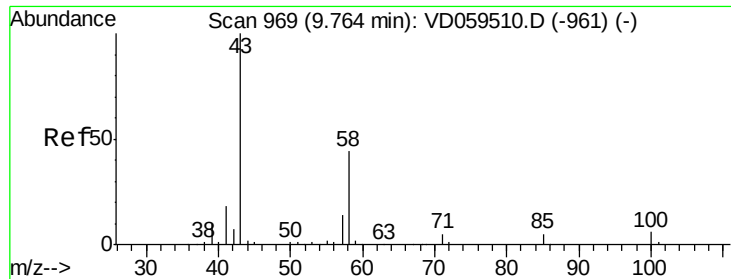
Tot Ion: 76 Resp: 76160
 Ion Ratio Lower Upper
 76 100
 78 38.4 26.5 39.7



#58
 2-Chloroethyl Vinyl ether
 Concen: 54.186 ug/l
 RT: 8.16 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

Tgt Ion: 63 Resp: 139570
 Ion Ratio Lower Upper
 63 100
 106 21.4 16.4 24.6

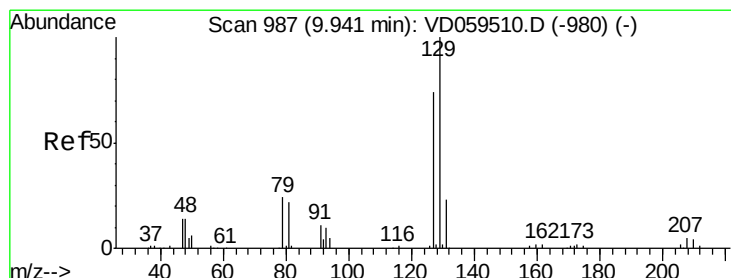
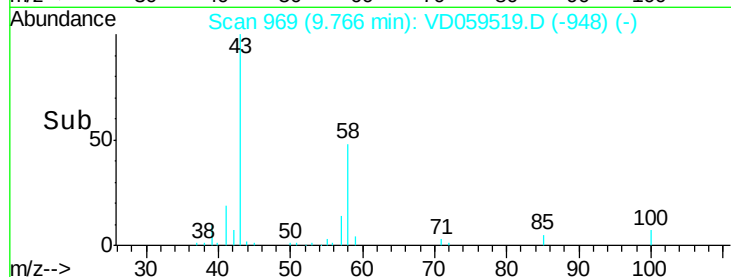
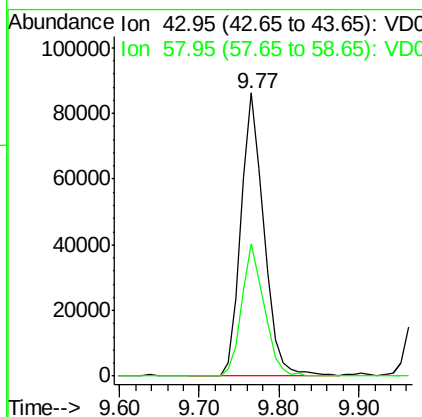
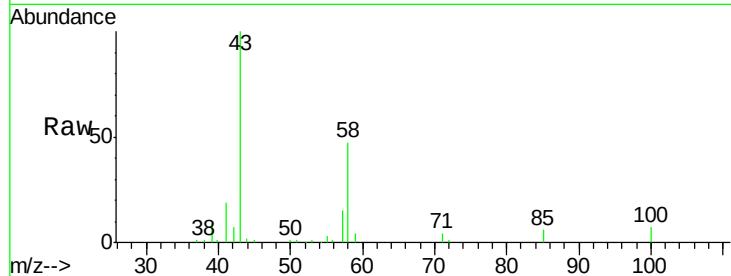




#59
2-Hexanone
Concen: 53.343 ug/l
RT: 9.77 min Scan# 969
Delta R.T. 0.00 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

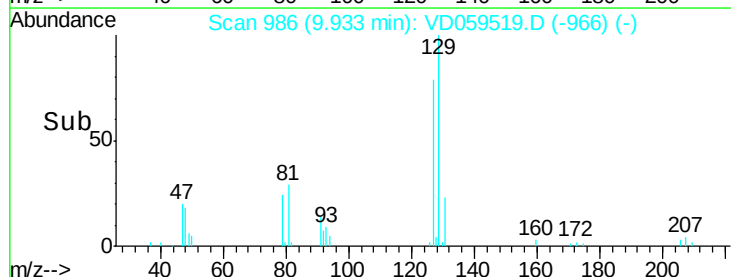
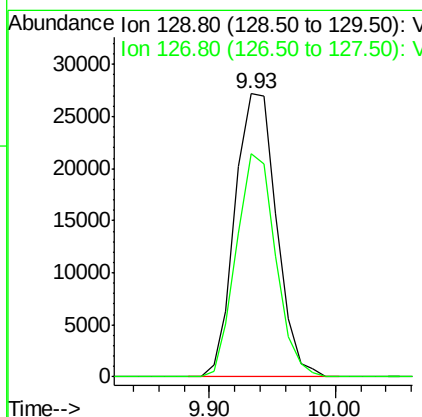
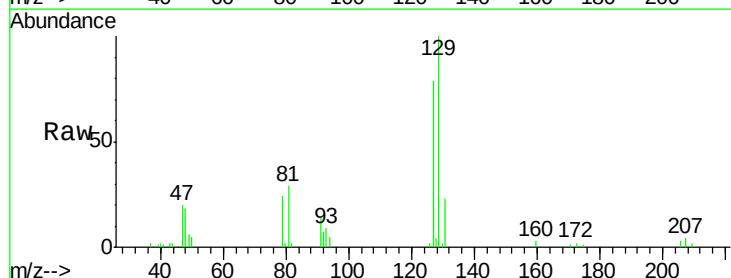
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

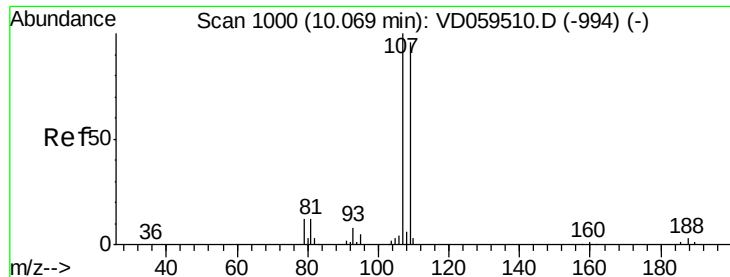
Tot Ion: 43 Resp: 172047
Ion Ratio Lower Upper
43 100
58 46.9 22.0 66.0



#60
Dibromochloromethane
Concen: 10.476 ug/l
RT: 9.93 min Scan# 986
Delta R.T. -0.01 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Tgt Ion: 129 Resp: 62147
Ion Ratio Lower Upper
129 100
127 79.0 37.2 111.6





#61

1,2-Dibromoethane

Concen: 9.953 ug/l

RT: 10.07 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

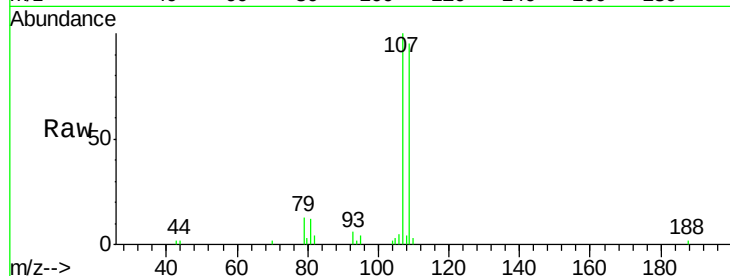
LOQ-SOIL-02-QT3-2018

Tot Ion:107 Resp: 46836

Ion Ratio Lower Upper

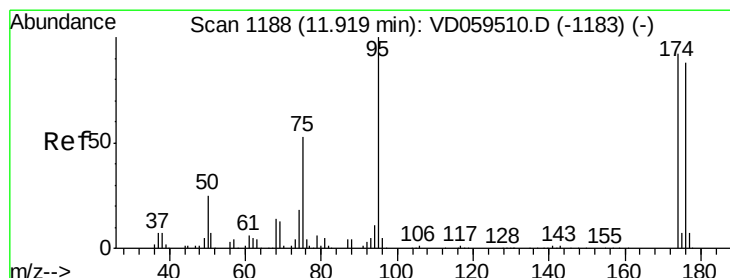
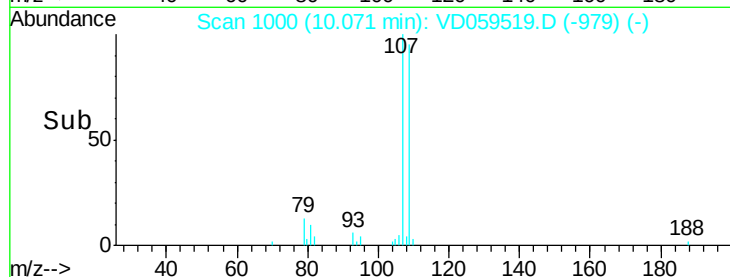
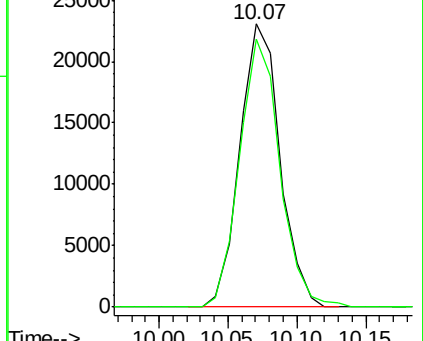
107 100

109 94.8 76.8 115.2



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 9.953 ug/l

RT: 11.92 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

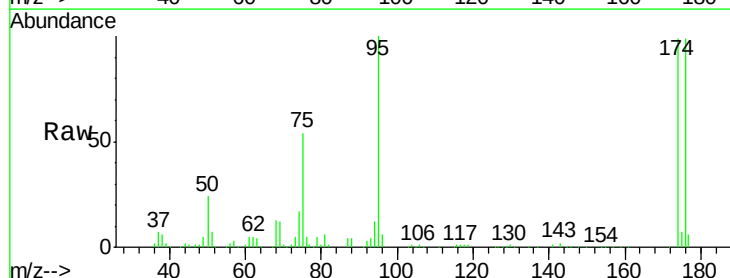
Tgt Ion: 95 Resp: 404199

Ion Ratio Lower Upper

95 100

174 99.4 0.0 183.0

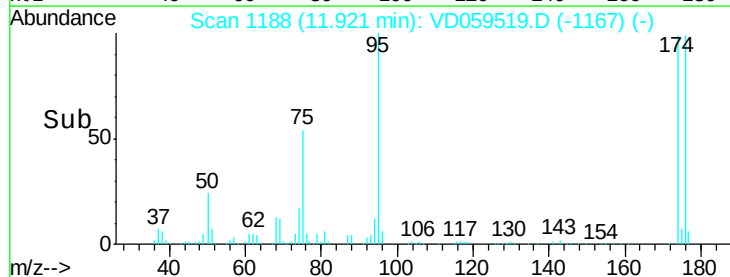
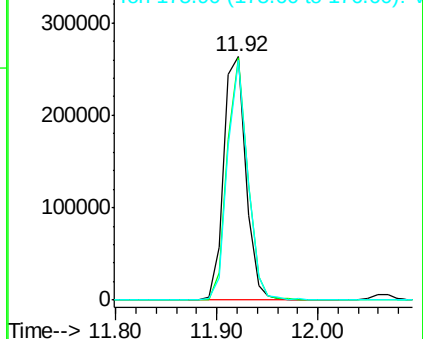
176 98.6 0.0 176.6

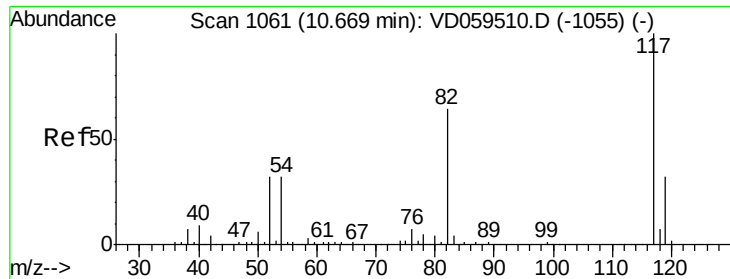


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

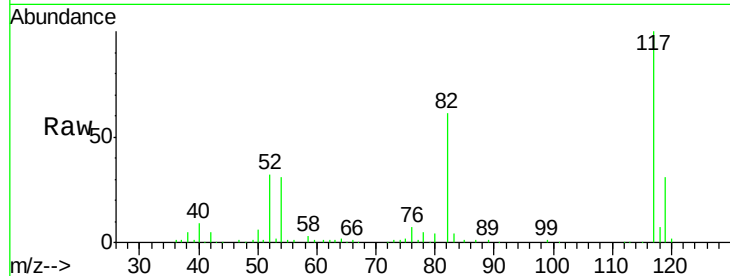




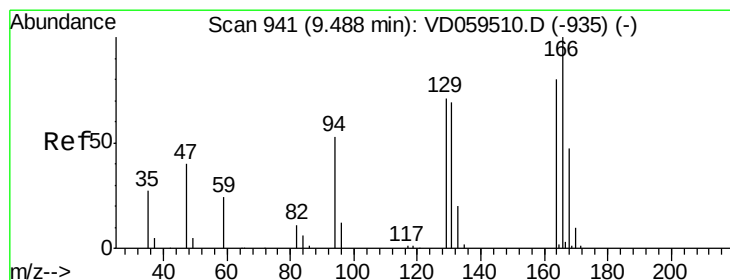
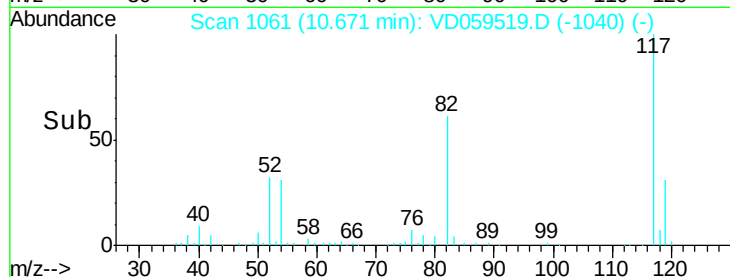
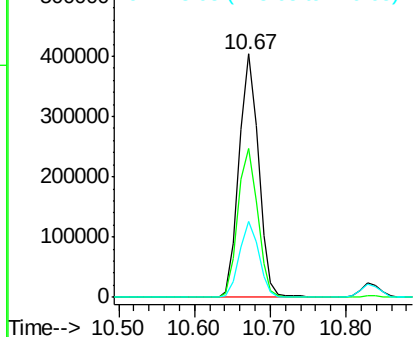
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.67 min Scan# 1061
Delta R.T. 0.00 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

Tot Ion:117 Resp: 715414
Ion Ratio Lower Upper
117 100
82 61.0 51.1 76.7
119 31.0 25.6 38.4

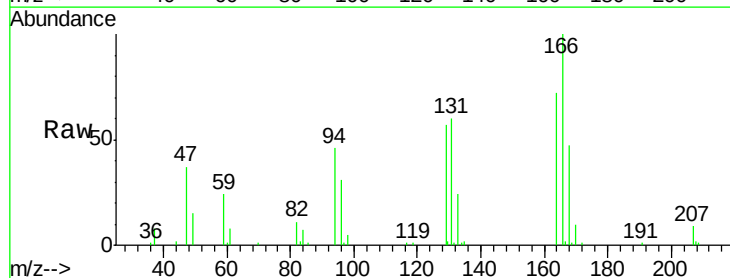


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

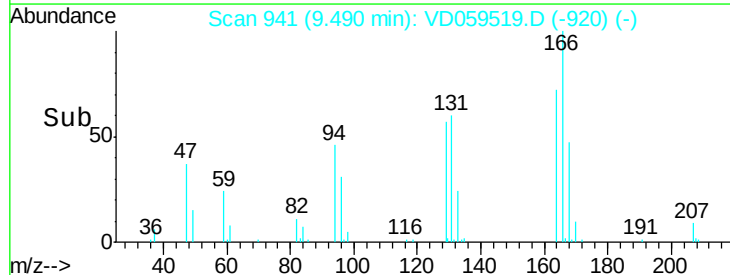
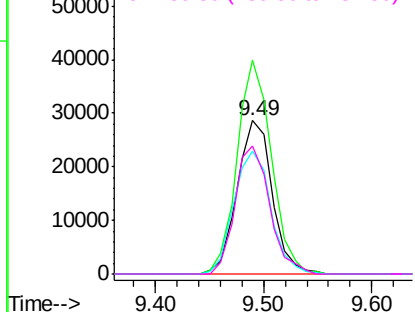


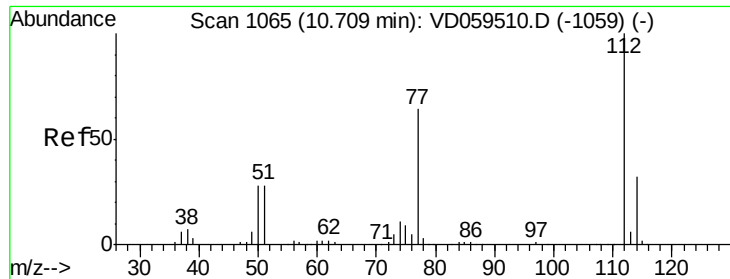
#64
Tetrachloroethene
Concen: 10.528 ug/l
RT: 9.49 min Scan# 941
Delta R.T. 0.00 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Tgt Ion:164 Resp: 64783
Ion Ratio Lower Upper
164 100
166 139.1 99.5 149.3
129 79.7 70.9 106.3
131 83.6 68.8 103.2



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

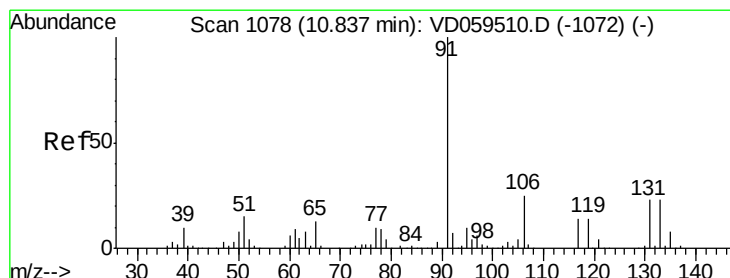
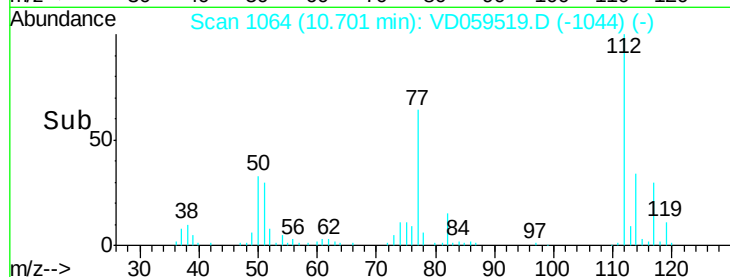
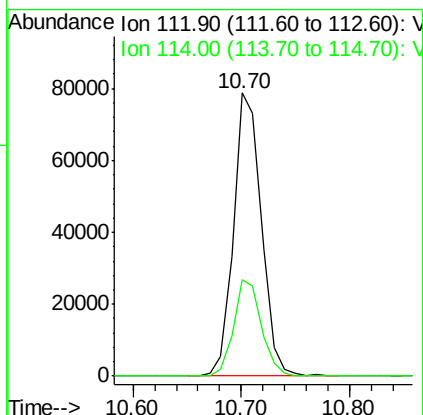
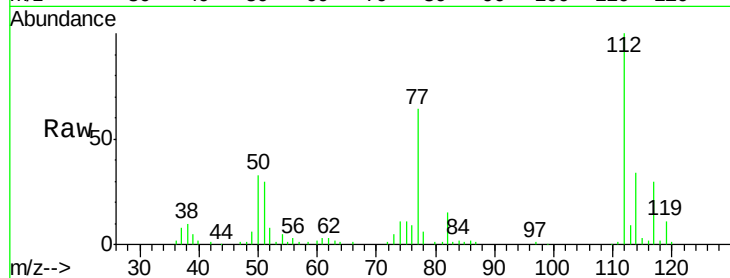




#65
Chlorobenzene
Concen: 10.186 ug/l
RT: 10.70 min Scan# 1064
Delta R.T. -0.01 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

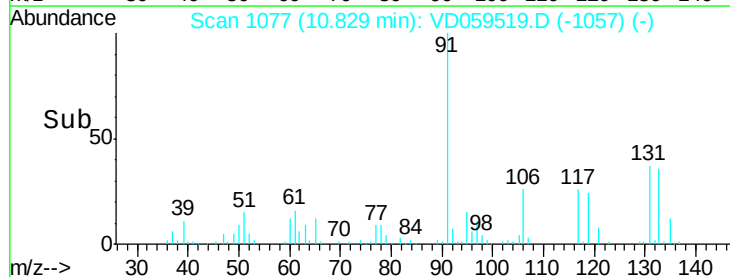
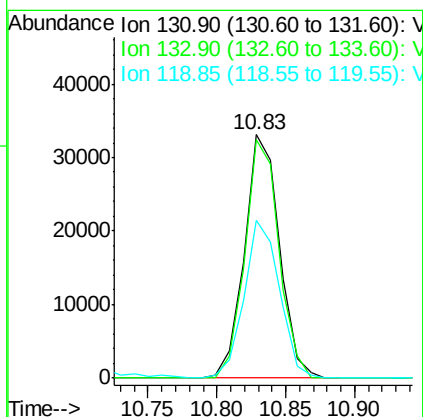
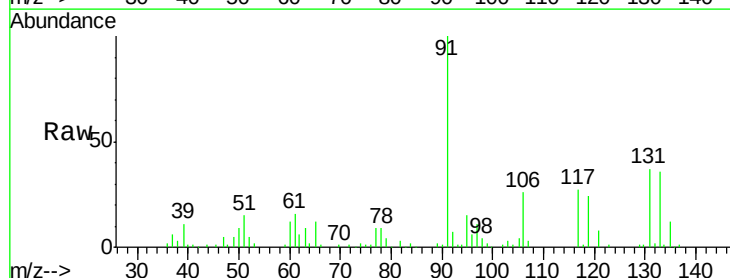
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

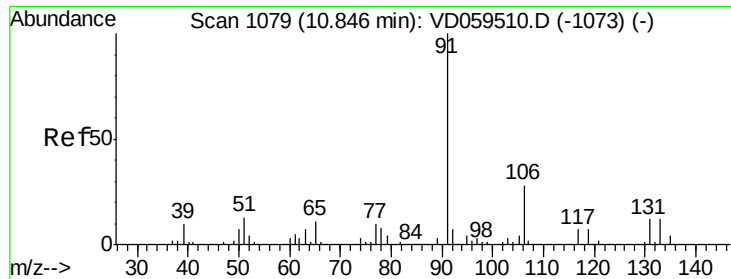
Tot Ion:112 Resp: 140387
Ion Ratio Lower Upper
112 100
114 34.0 25.4 38.2



#66
1,1,1,2-Tetrachloroethane
Concen: 10.479 ug/l
RT: 10.83 min Scan# 1077
Delta R.T. -0.01 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Tgt Ion:131 Resp: 58809
Ion Ratio Lower Upper
131 100
133 98.1 48.9 146.6
119 64.7 30.7 92.1





#67

Ethyl Benzene

Concen: 11.267 ug/l

RT: 10.84 min Scan# 1078

Delta R.T. -0.01 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

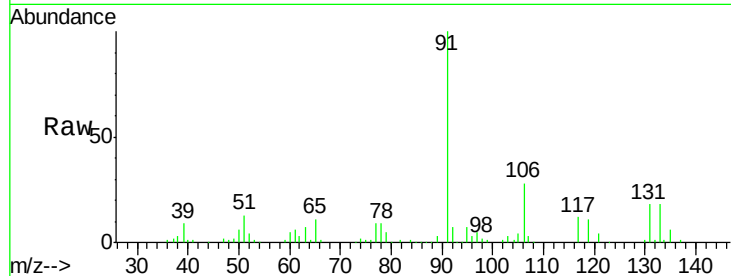
LOQ-SOIL-02-QT3-2018

Tot Ion: 91 Resp: 275345

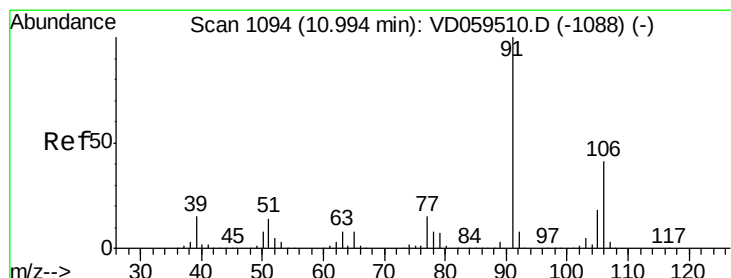
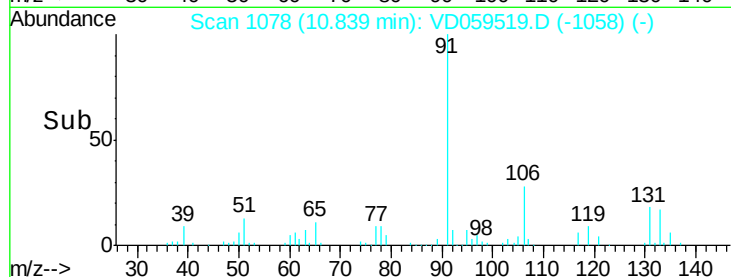
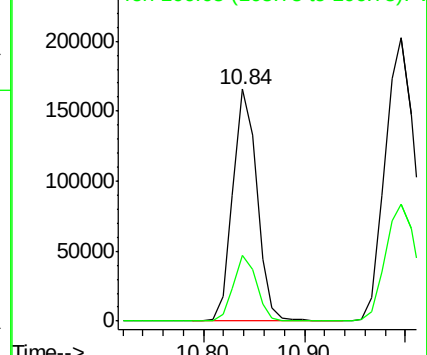
Ion Ratio Lower Upper

91 100

106 28.2 22.2 33.2



Abundance Ion 91.00 (90.70 to 91.70): V



#68

m/p-Xylenes

Concen: 21.758 ug/l

RT: 11.00 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VD059519.D

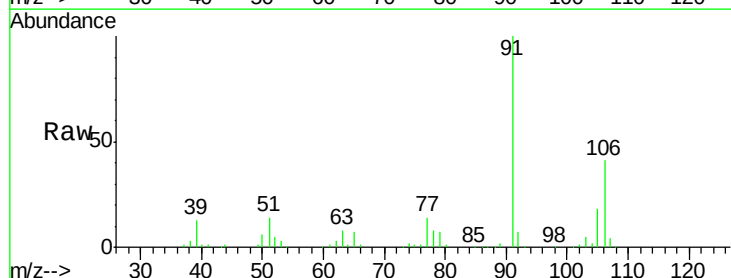
Acq: 2 Jul 2018 23:46

Tgt Ion:106 Resp: 175419

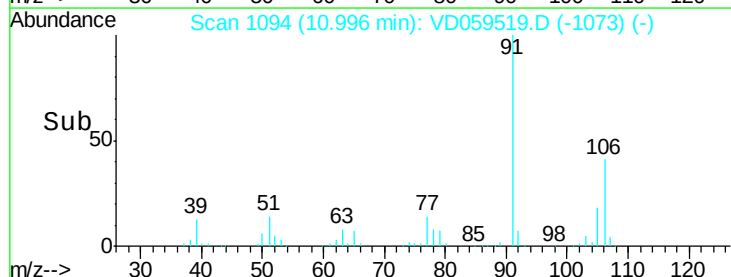
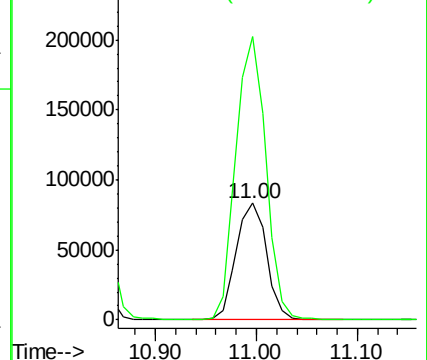
Ion Ratio Lower Upper

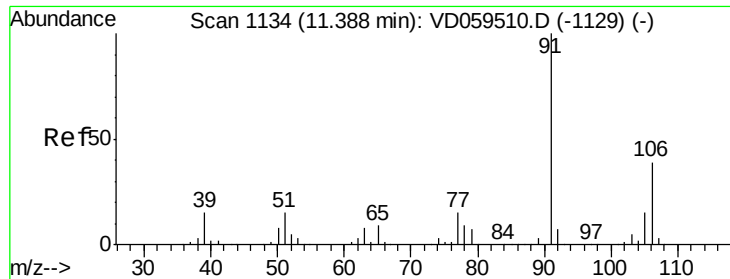
106 100

91 242.1 194.1 291.1



Abundance Ion 106.05 (105.75 to 106.75): V

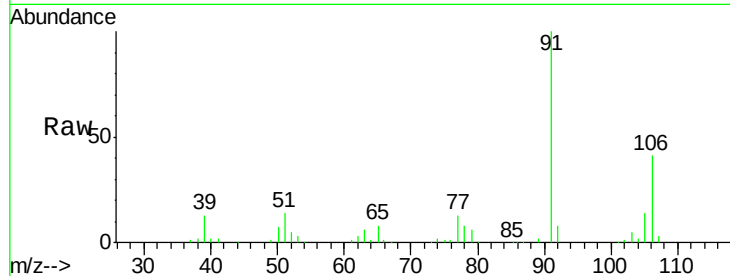




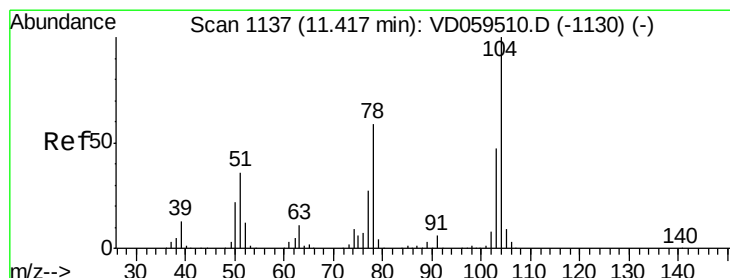
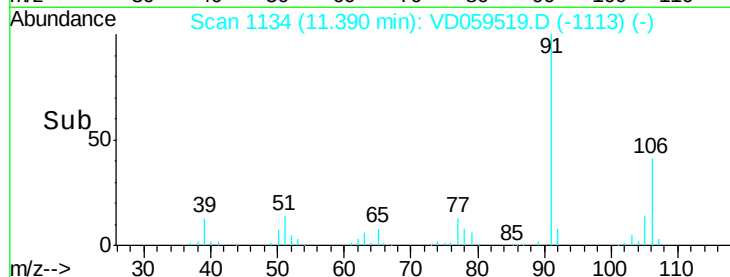
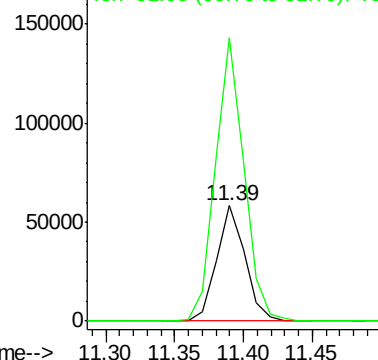
#69
o-Xylene
Concen: 10.769 ug/l
RT: 11.39 min Scan# 1134
Delta R.T. 0.00 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

Tot Ion:106 Resp: 83656
Ion Ratio Lower Upper
106 100
91 246.0 127.0 381.0

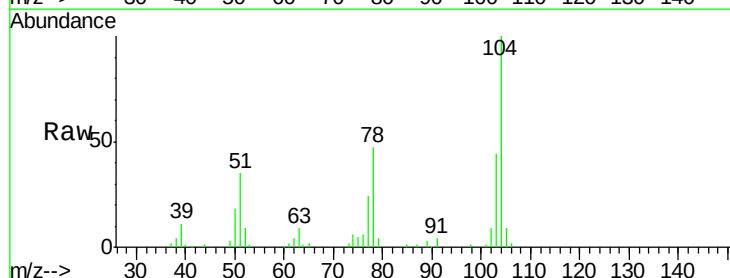


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

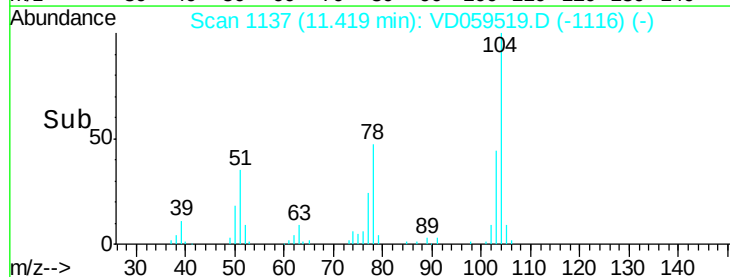
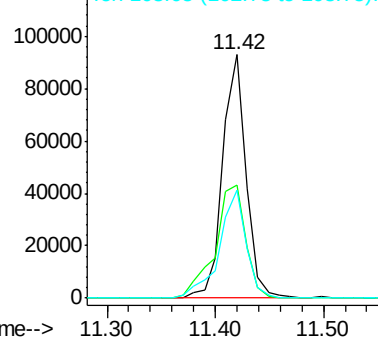


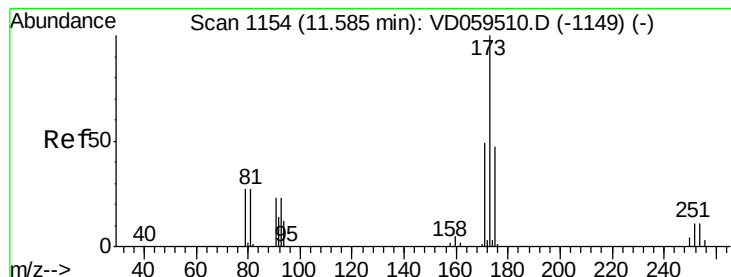
#70
Styrene
Concen: 10.709 ug/l
RT: 11.42 min Scan# 1137
Delta R.T. 0.00 min
Lab File: VD059519.D
Acq: 2 Jul 2018 23:46

Tgt Ion:104 Resp: 139470
Ion Ratio Lower Upper
104 100
78 46.7 47.6 71.4#
103 44.4 37.6 56.4



Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): VDC
Ion 103.05 (102.75 to 103.75): V





#71

Bromoform

Concen: 8.395 ug/l

RT: 11.59 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

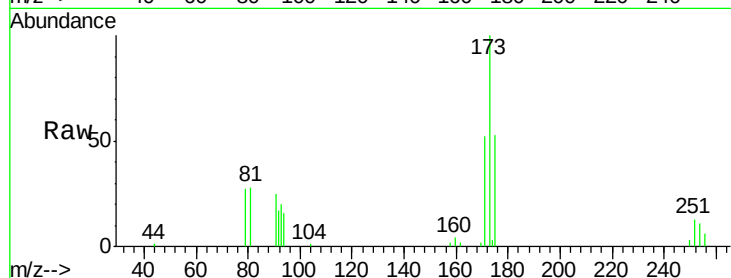
Tot Ion:173 Resp: 35564

Ion Ratio Lower Upper

173 100

175 52.6 23.3 69.8

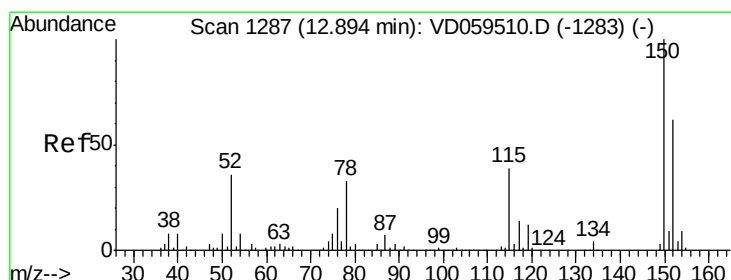
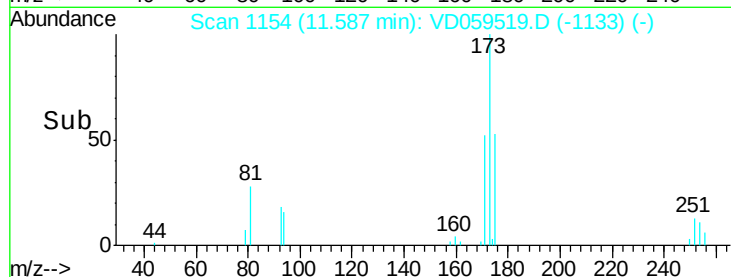
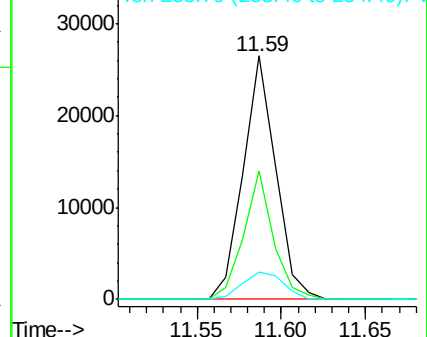
254 11.3 9.0 13.6



Abundance Ion 172.80 (172.50 to 173.50): V

Ion 174.80 (174.50 to 175.50): V

Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.90 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

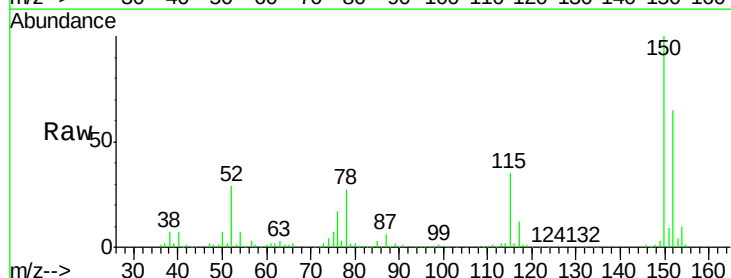
Tgt Ion:152 Resp: 370956

Ion Ratio Lower Upper

152 100

115 54.6 31.3 93.9

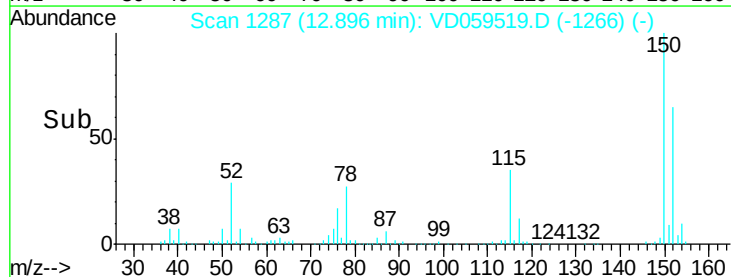
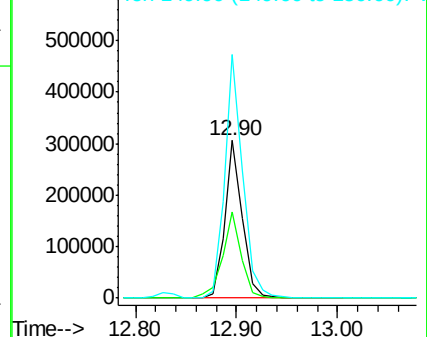
150 154.4 0.0 323.6

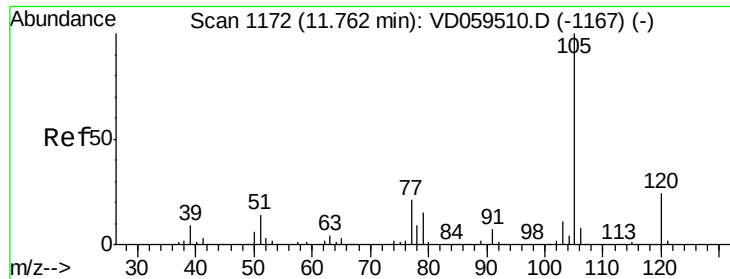


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 10.688 ug/l

RT: 11.76 min Scan# 1172

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

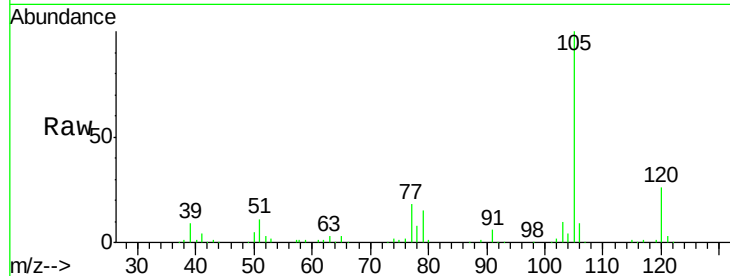
LOQ-SOIL-02-QT3-2018

Tot Ion:105 Resp: 236934

Ion Ratio Lower Upper

105 100

120 25.6 12.1 36.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

11.76

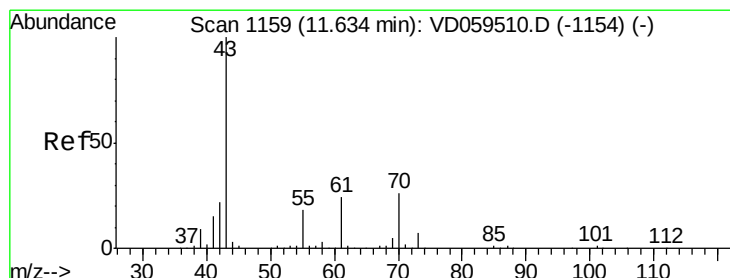
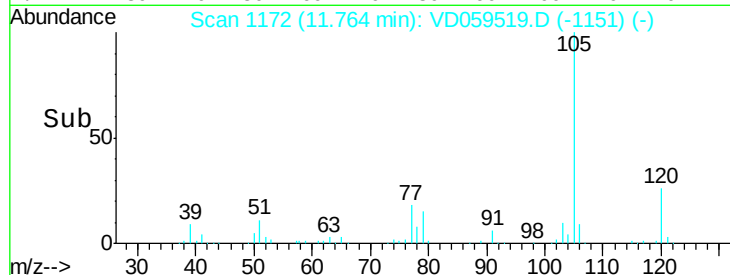
150000

100000

50000

0

Time-->



#74

N-amyl acetate

Concen: 9.858 ug/l

RT: 11.64 min Scan# 1159

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Tgt Ion: 43 Resp: 92232

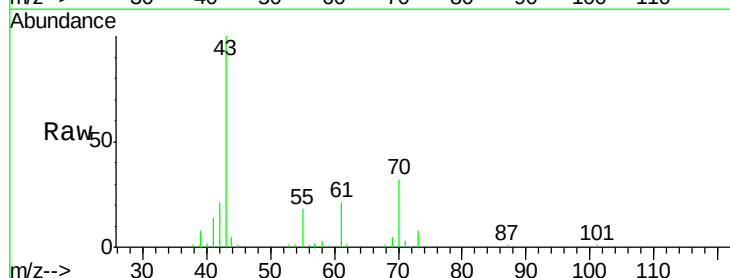
Ion Ratio Lower Upper

43 100

70 32.1 20.6 31.0#

55 18.3 14.4 21.6

61 21.5 19.2 28.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC

11.64

100000

80000

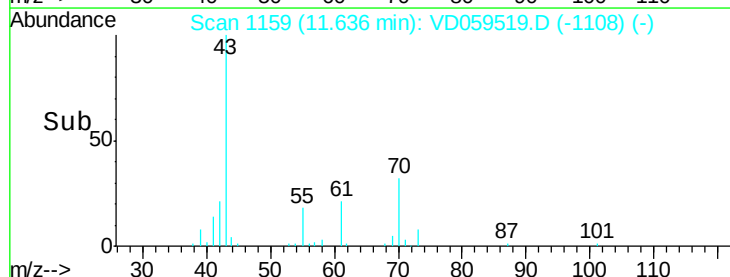
60000

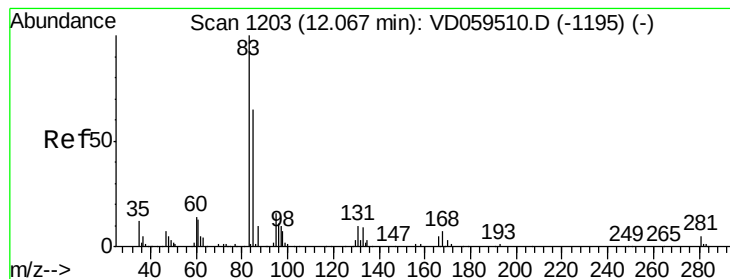
40000

20000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 10.239 ug/l

RT: 12.06 min Scan# 1202

Delta R.T. -0.01 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

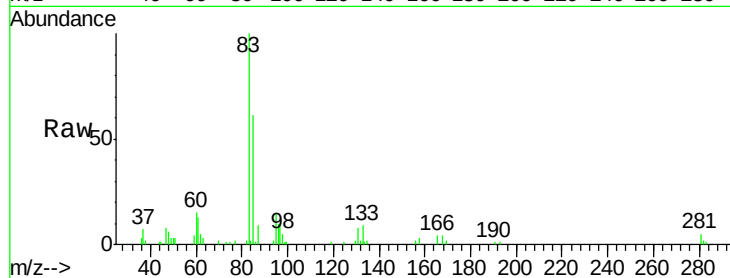
Tot Ion: 83 Resp: 58808

Ion Ratio Lower Upper

83 100

131 7.9 5.0 15.0

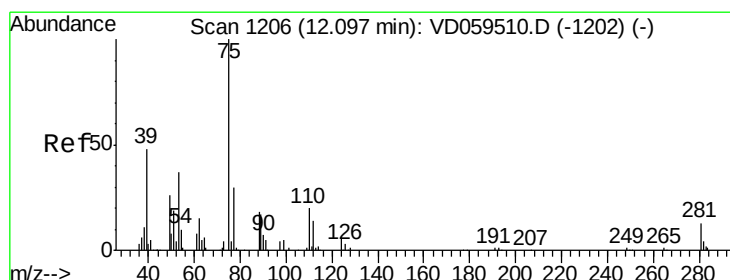
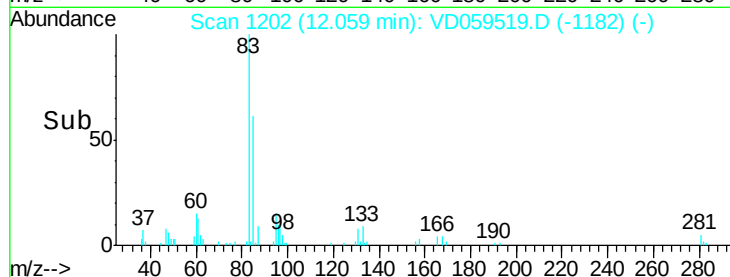
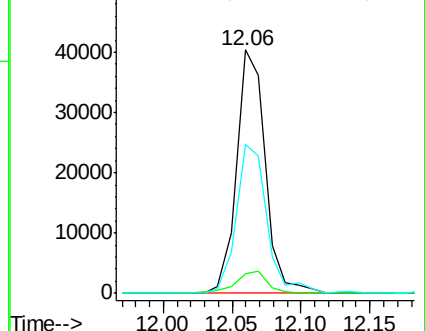
85 60.9 32.3 96.8



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 9.750 ug/l

RT: 12.10 min Scan# 1206

Delta R.T. 0.00 min

Lab File: VD059519.D

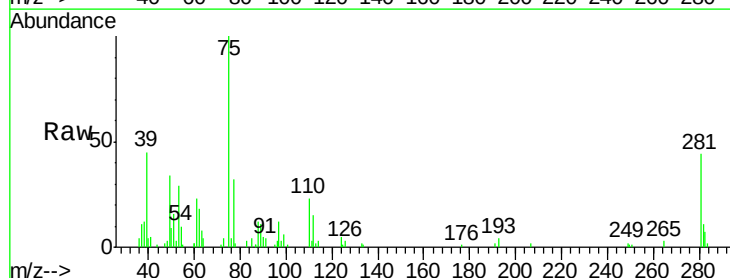
Acq: 2 Jul 2018 23:46

Tgt Ion: 75 Resp: 58364

Ion Ratio Lower Upper

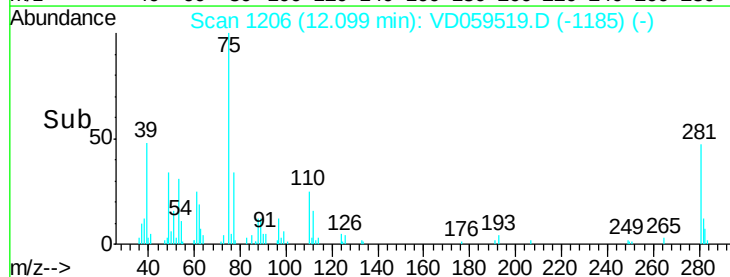
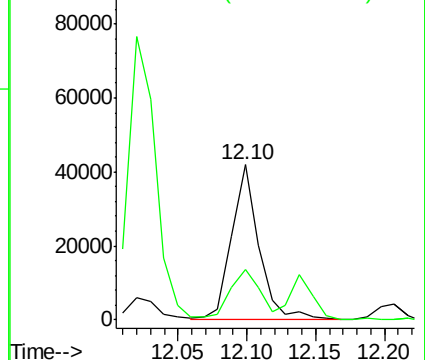
75 100

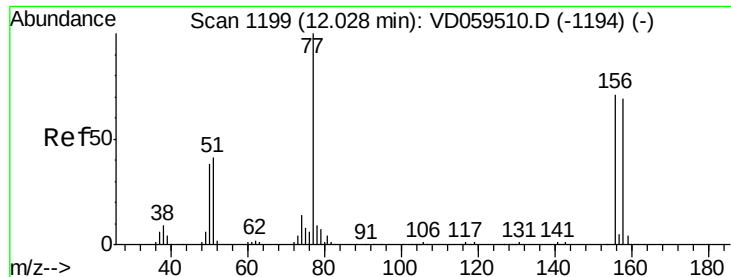
77 32.3 16.4 49.2



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 10.218 ug/l

RT: 12.03 min Scan# 1199

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

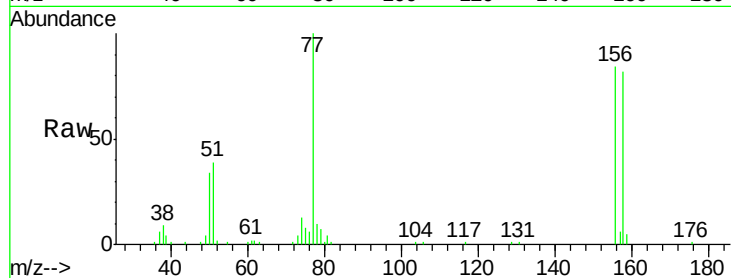
Tot Ion:156 Resp: 71094

Ion Ratio Lower Upper

156 100

77 118.6 70.0 210.0

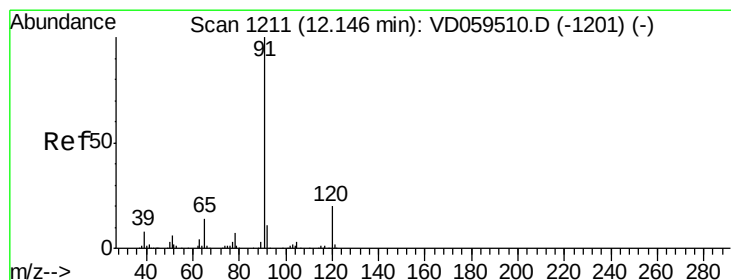
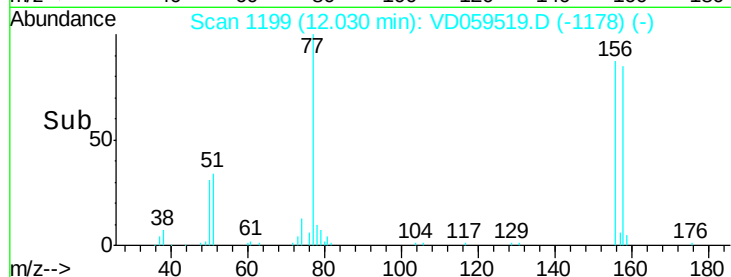
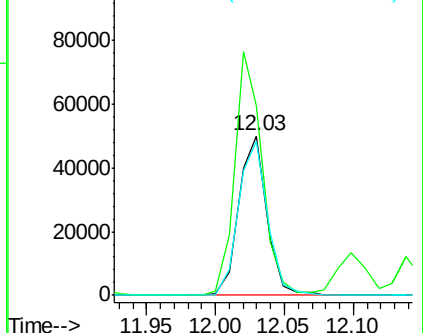
158 96.8 48.3 144.9



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 10.488 ug/l

RT: 12.14 min Scan# 1210

Delta R.T. -0.01 min

Lab File: VD059519.D

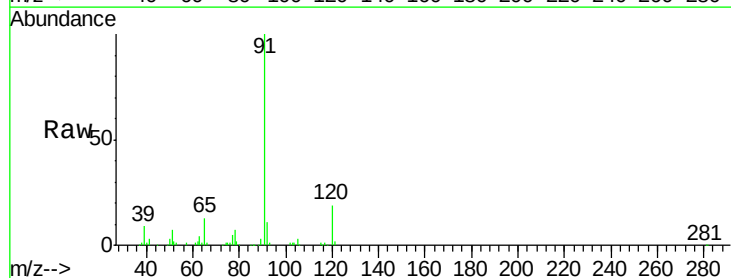
Acq: 2 Jul 2018 23:46

Tgt Ion: 91 Resp: 311461

Ion Ratio Lower Upper

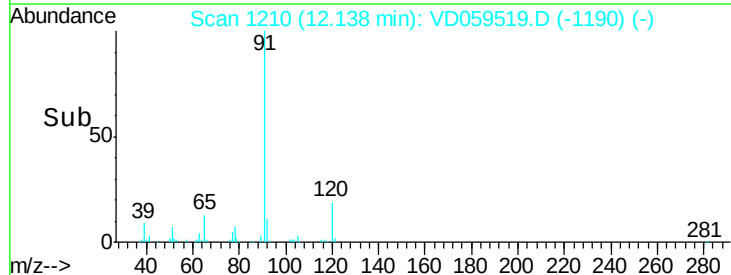
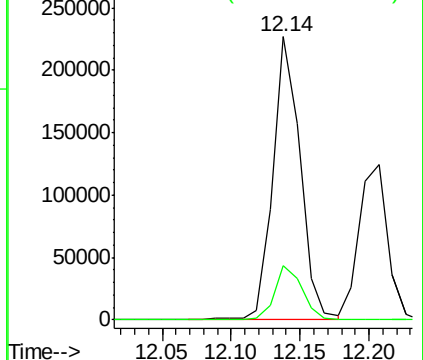
91 100

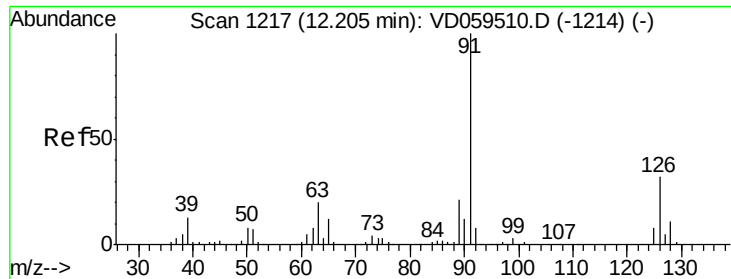
120 19.3 10.0 29.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

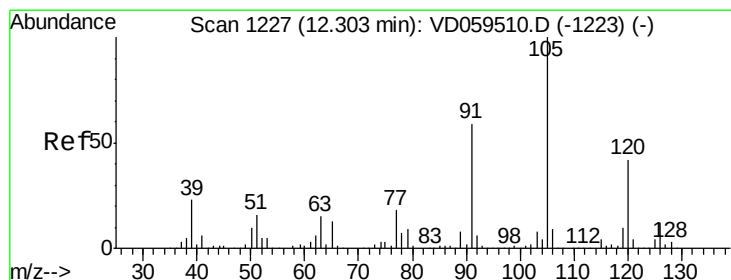
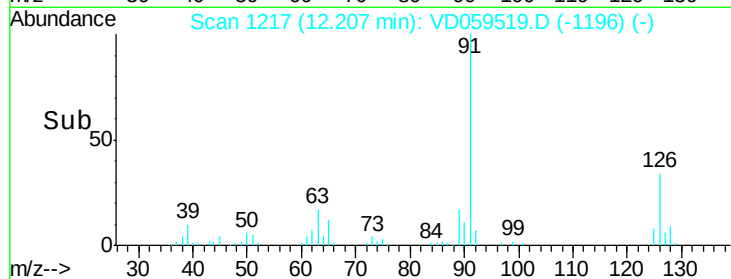
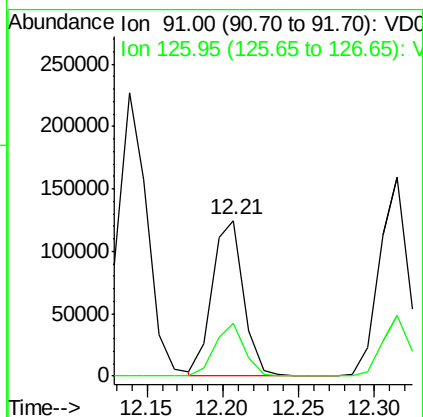
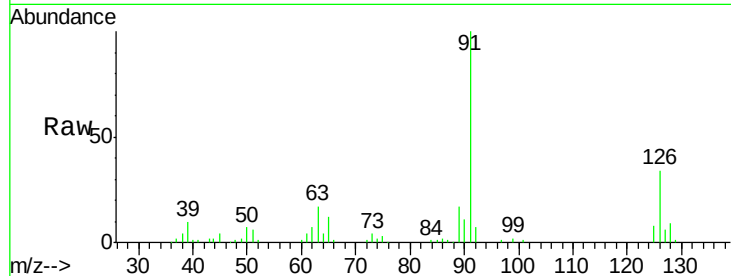




#79
 2-Chlorotoluene
 Concen: 10.242 ug/l
 RT: 12.21 min Scan# 1217
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

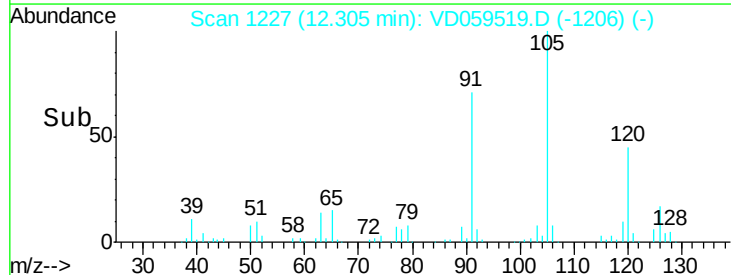
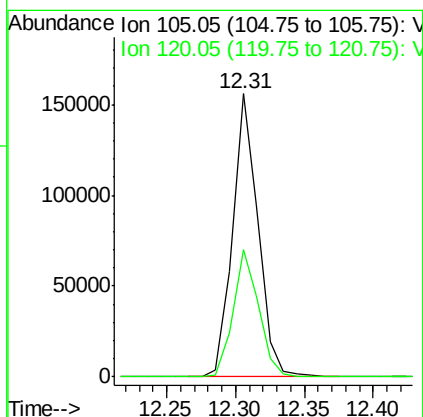
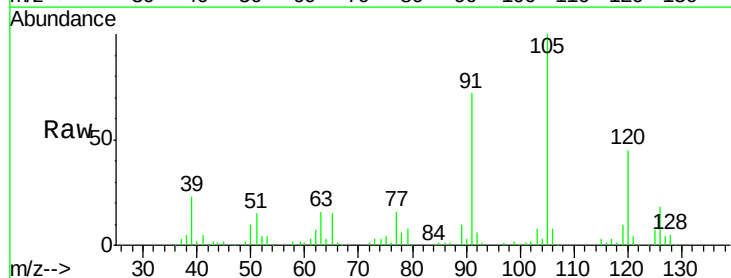
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

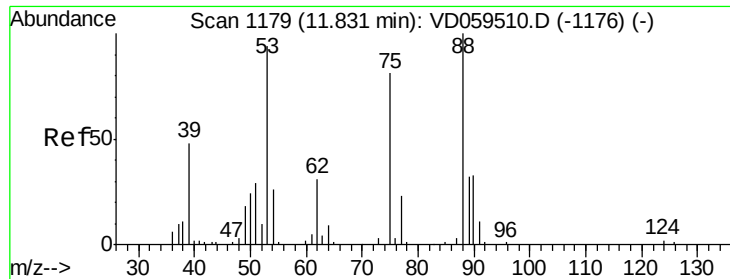
Tot Ion: 91 Resp: 178883
 Ion Ratio Lower Upper
 91 100
 126 34.2 15.9 47.6



#80
 1,3,5-Trimethylbenzene
 Concen: 11.034 ug/l
 RT: 12.31 min Scan# 1227
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

Tgt Ion: 105 Resp: 198824
 Ion Ratio Lower Upper
 105 100
 120 44.8 20.8 62.4





#81

trans-1,4-Dichloro-2-butene

Concen: 9.150 ug/l

RT: 11.83 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

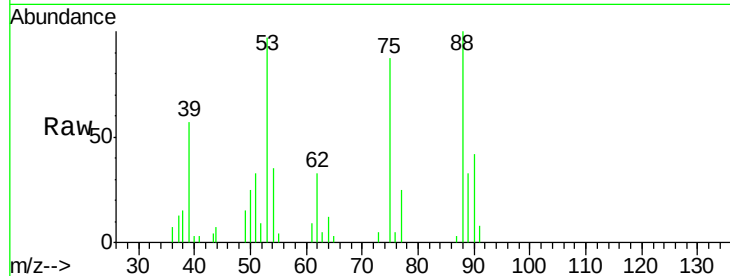
Tot Ion: 75 Resp: 11830

Ion Ratio Lower Upper

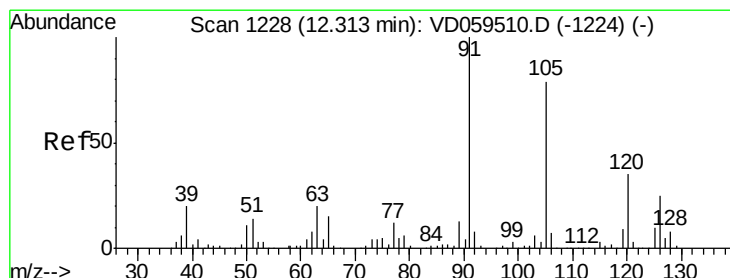
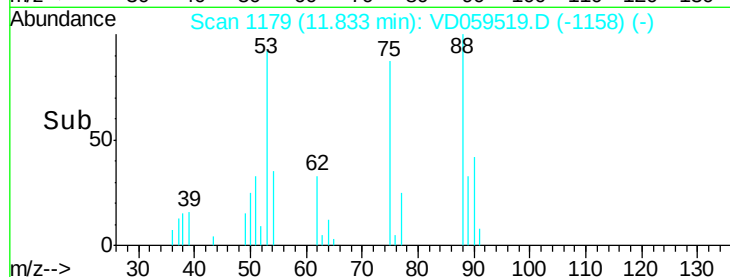
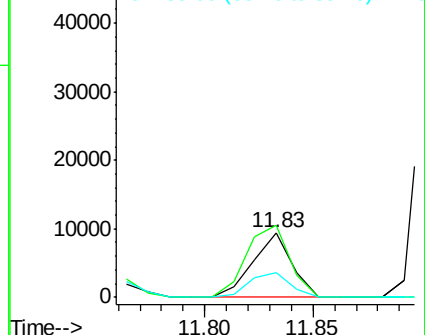
75 100

53 111.3 92.6 139.0

89 37.9 31.5 47.3



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 11.026 ug/l

RT: 12.32 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VD059519.D

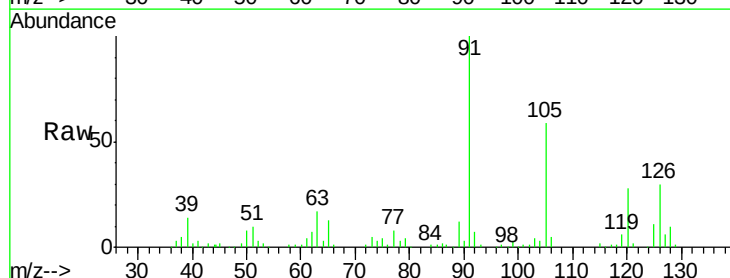
Acq: 2 Jul 2018 23:46

Tgt Ion: 91 Resp: 218254

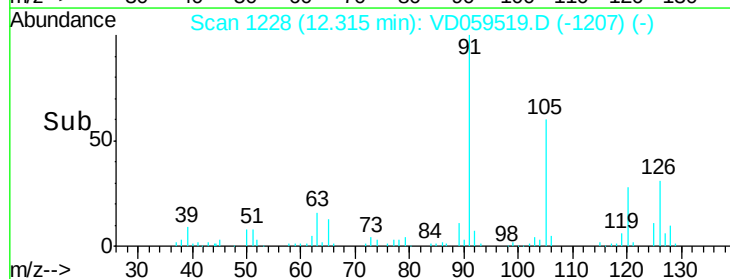
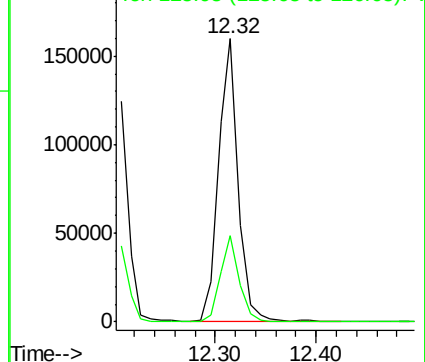
Ion Ratio Lower Upper

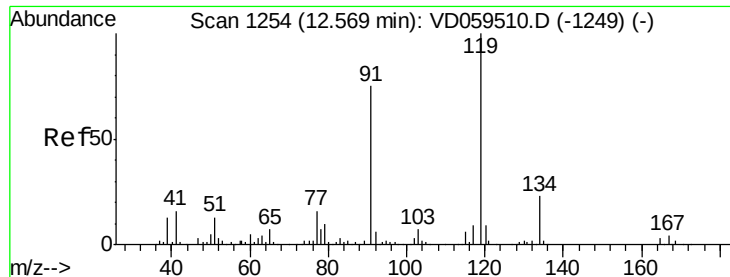
91 100

126 30.5 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V

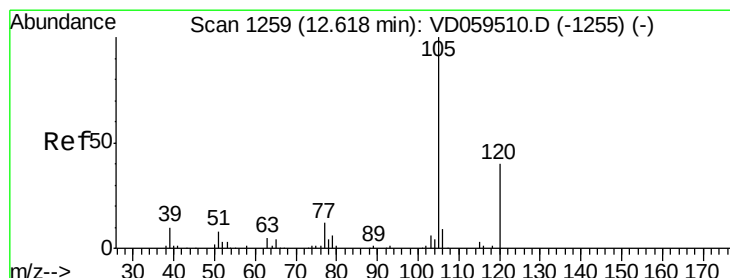
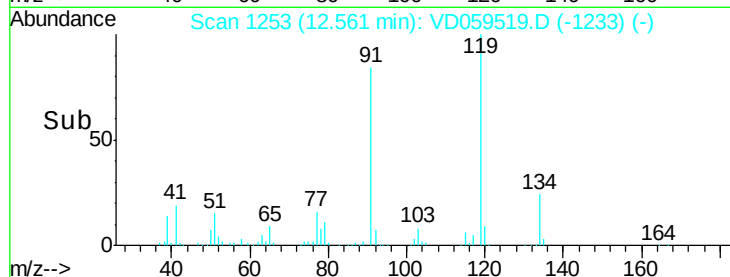
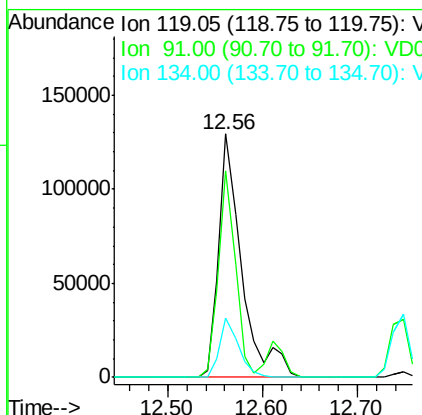
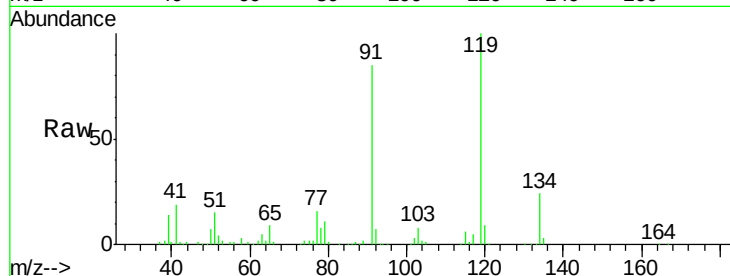




#83
 tert-Butylbenzene
 Concen: 10.725 ug/l
 RT: 12.56 min Scan# 1253
 Delta R.T. -0.01 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

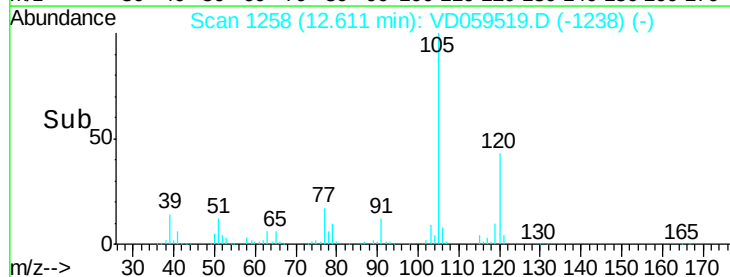
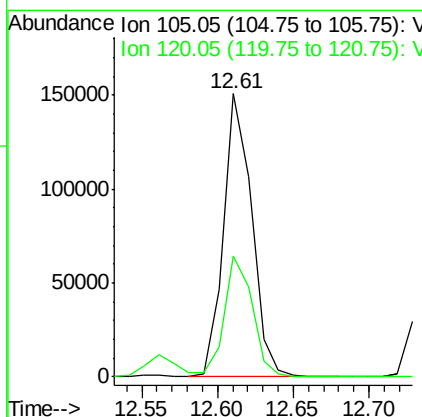
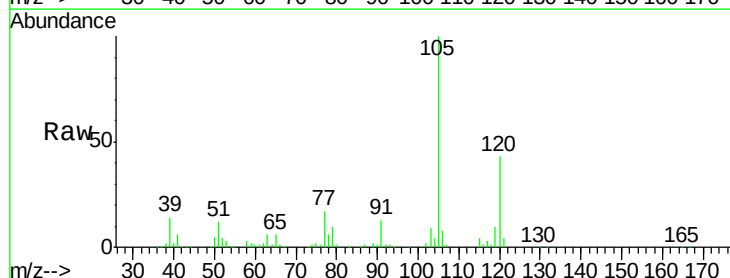
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

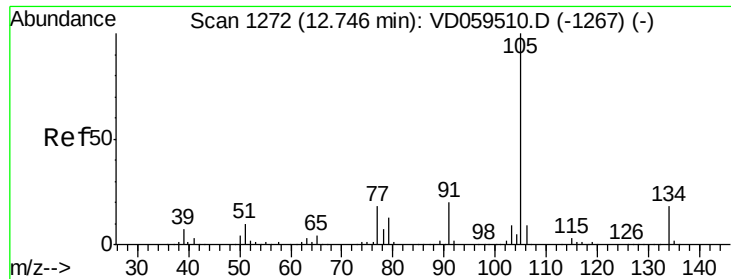
Tot Ion:119 Resp: 219829
 Ion Ratio Lower Upper
 119 100
 91 84.9 37.8 113.3
 134 24.4 11.5 34.4



#84
 1,2,4-Trimethylbenzene
 Concen: 10.118 ug/l
 RT: 12.61 min Scan# 1258
 Delta R.T. -0.01 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

Tgt Ion:105 Resp: 195845
 Ion Ratio Lower Upper
 105 100
 120 42.7 21.1 63.3

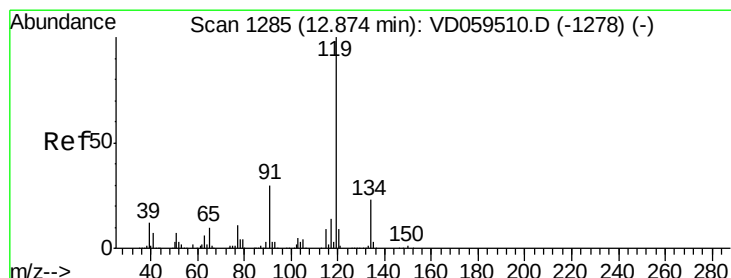
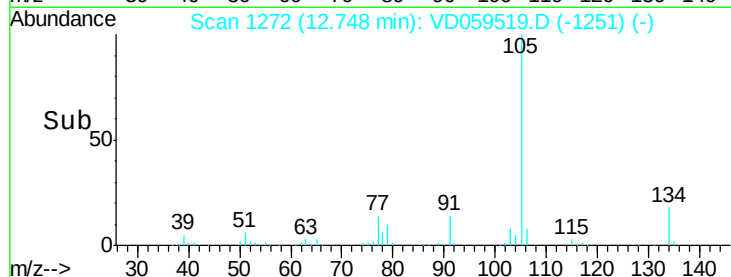
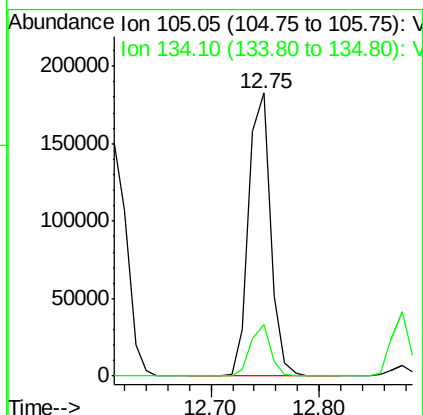
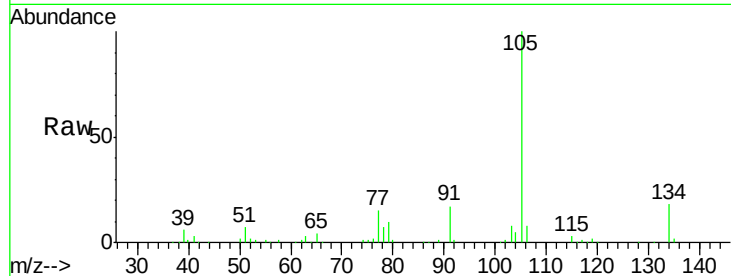




#85
 sec-Butylbenzene
 Concen: 10.948 ug/l
 RT: 12.75 min Scan# 1272
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

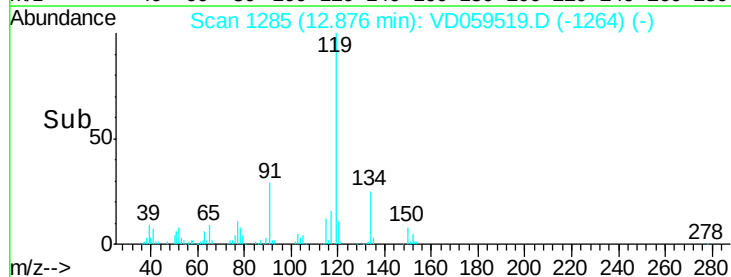
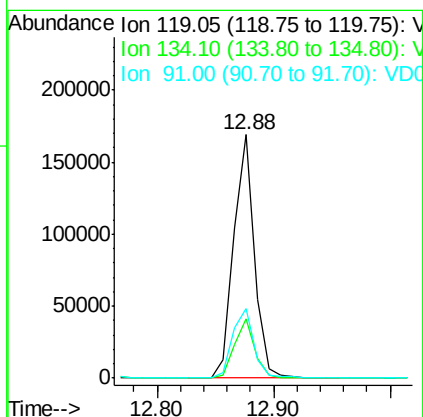
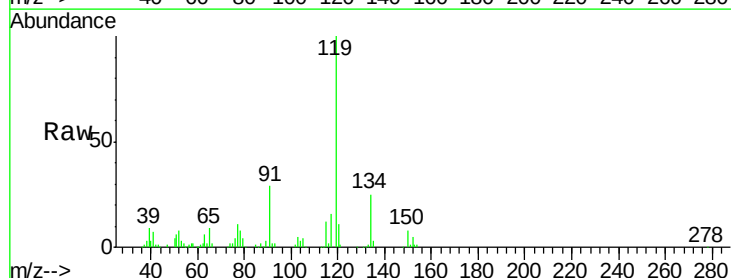
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

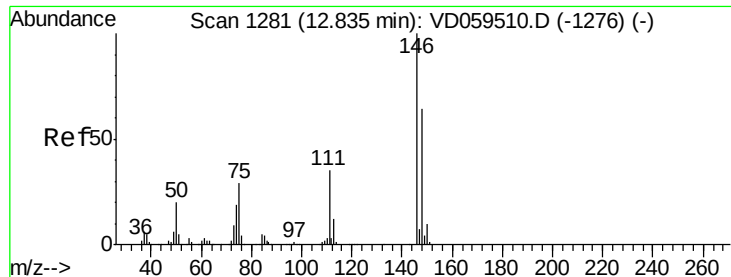
Tot Ion:105 Resp: 257513
 Ion Ratio Lower Upper
 105 100
 134 18.4 8.8 26.4



#86
 p-Isopropyltoluene
 Concen: 10.545 ug/l
 RT: 12.88 min Scan# 1285
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

Tgt Ion:119 Resp: 208071
 Ion Ratio Lower Upper
 119 100
 134 24.6 11.6 34.8
 91 28.7 15.3 45.8





#87

1,3-Dichlorobenzene

Concen: 9.771 ug/l

RT: 12.83 min Scan# 1280

Delta R.T. -0.01 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

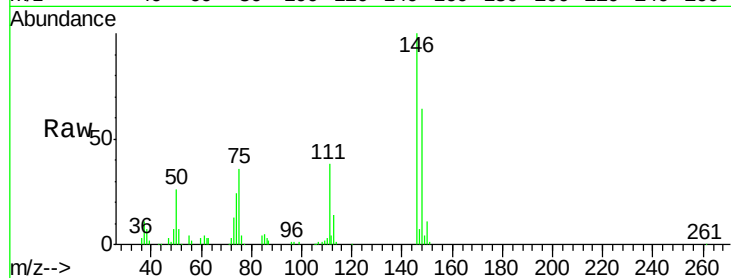
Tot Ion:146 Resp: 116394

Ion Ratio Lower Upper

146 100

111 38.4 17.6 52.9

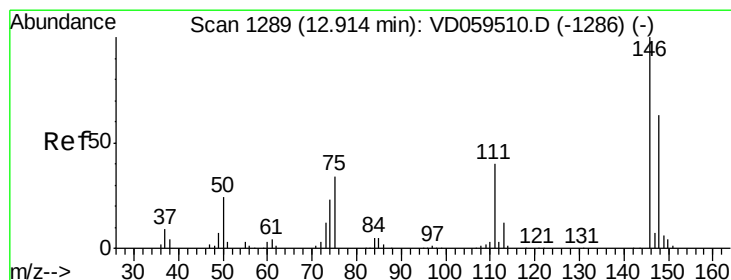
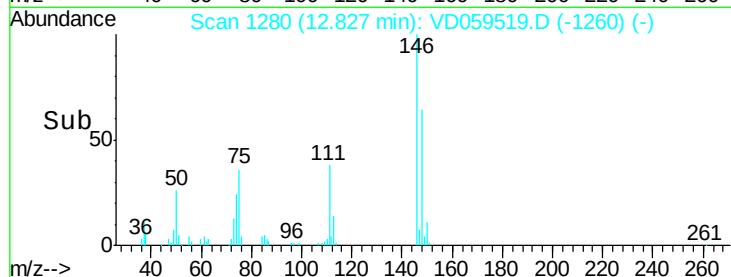
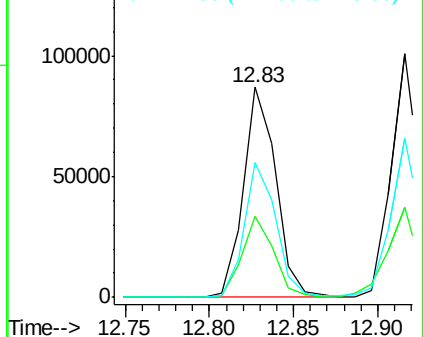
148 63.9 32.0 96.2



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 10.538 ug/l

RT: 12.92 min Scan# 1289

Delta R.T. 0.00 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

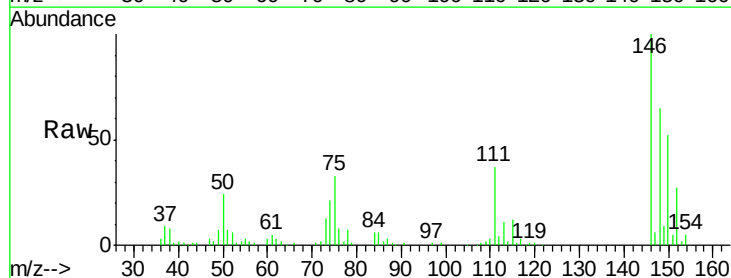
Tgt Ion:146 Resp: 123220

Ion Ratio Lower Upper

146 100

111 37.2 20.0 59.9

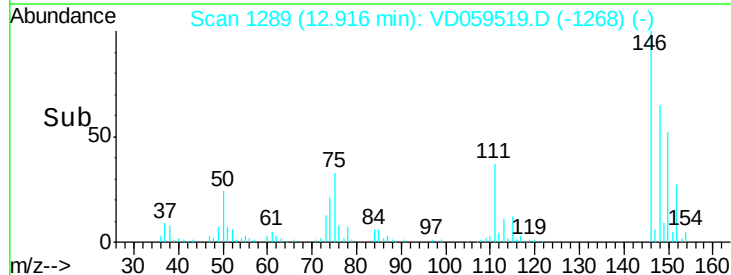
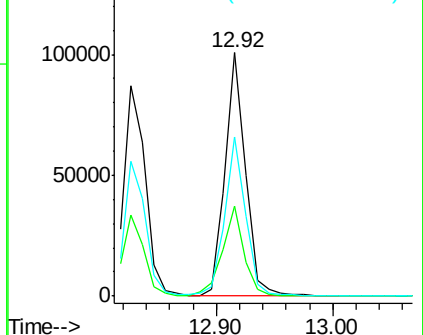
148 65.3 31.7 95.1

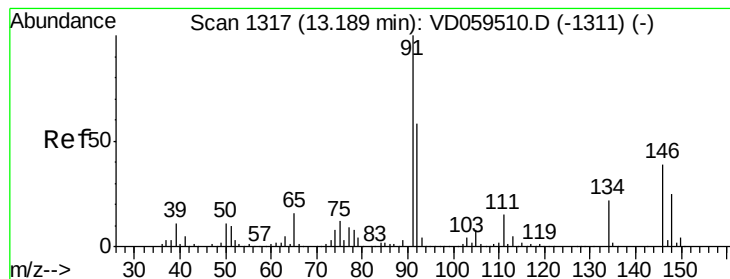


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 11.822 ug/l

RT: 13.18 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

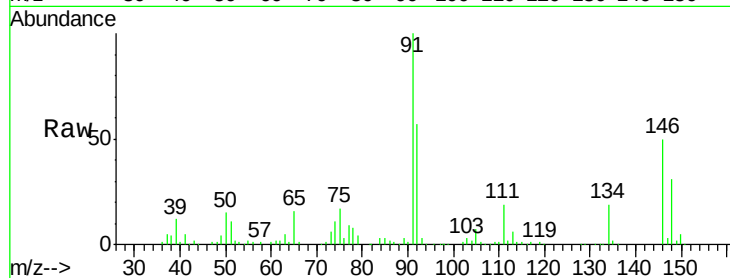
Tot Ion: 91 Resp: 237897

Ion Ratio Lower Upper

91 100

92 57.4 28.9 86.7

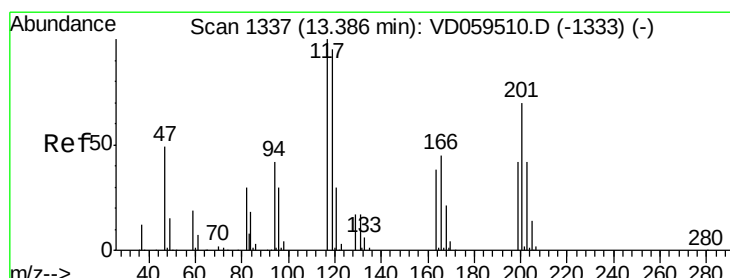
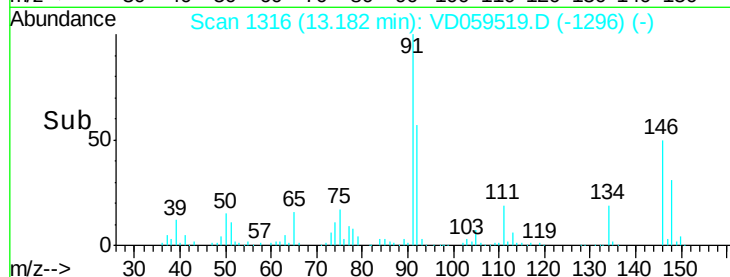
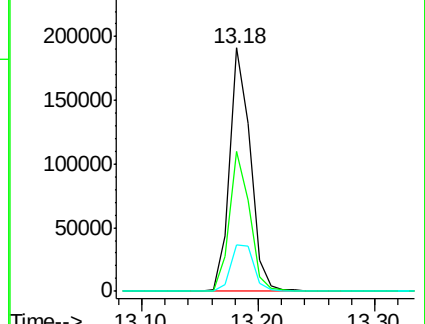
134 19.0 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.10 (133.80 to 134.80): VDC



#90

Hexachloroethane

Concen: 9.287 ug/l

RT: 13.39 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VD059519.D

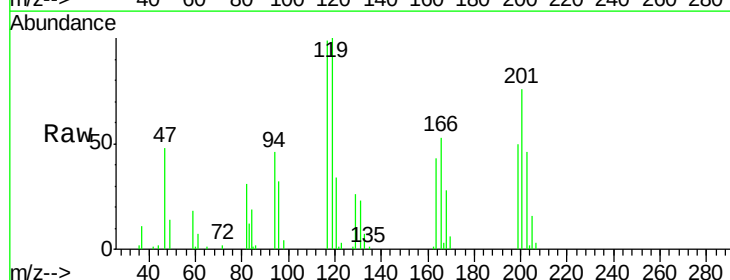
Acq: 2 Jul 2018 23:46

Tgt Ion: 117 Resp: 47478

Ion Ratio Lower Upper

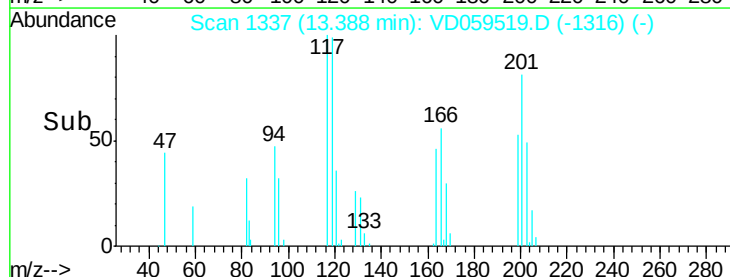
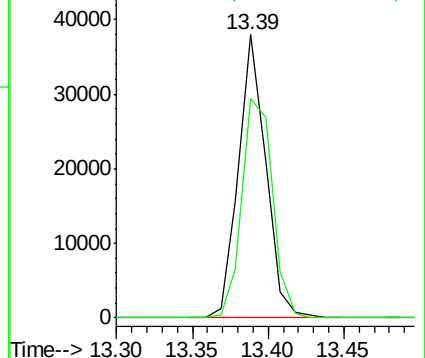
117 100

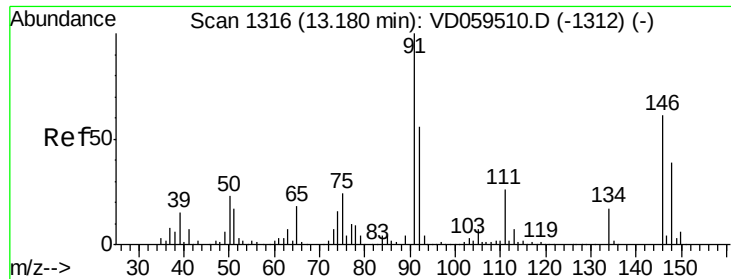
201 77.4 35.2 105.6



Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 200.75 (200.45 to 201.45): VDC

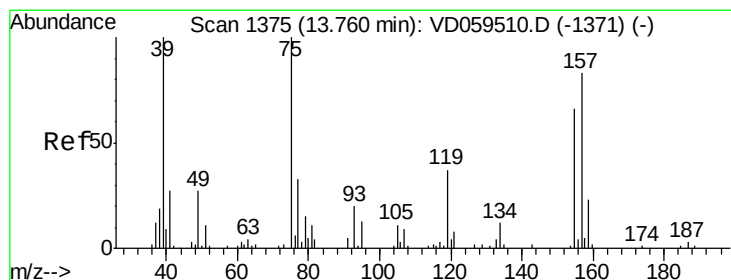
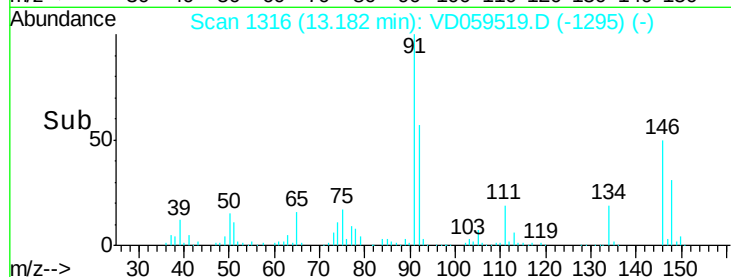
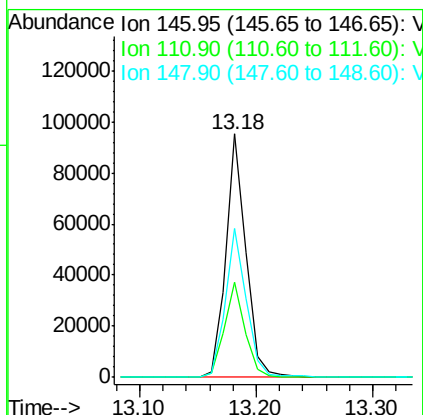
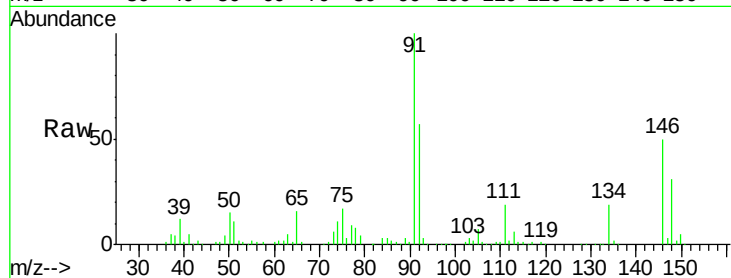




#91
 1,2-Dichlorobenzene
 Concen: 11.337 ug/l
 RT: 13.18 min Scan# 1316
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

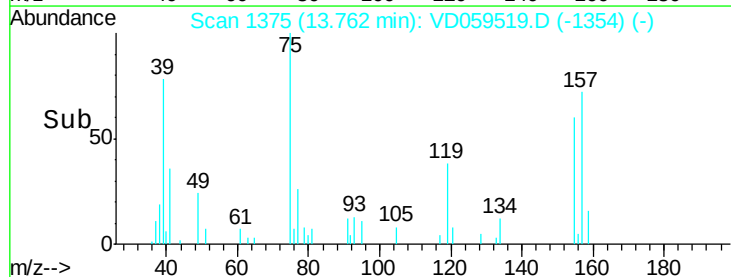
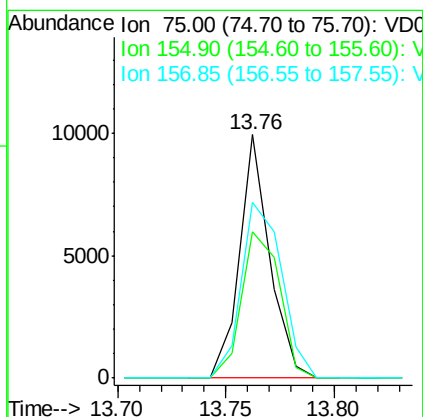
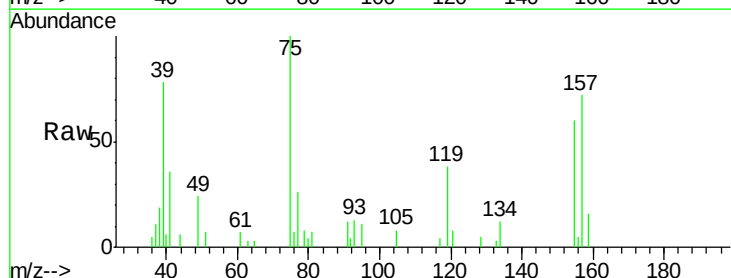
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

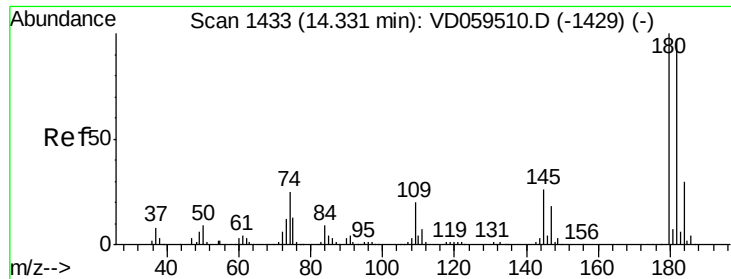
Tot Ion:146 Resp: 113609
 Ion Ratio Lower Upper
 146 100
 111 39.0 21.3 63.9
 148 61.3 32.4 97.0



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 9.745 ug/l
 RT: 13.76 min Scan# 1375
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

Tgt Ion: 75 Resp: 9648
 Ion Ratio Lower Upper
 75 100
 155 59.9 32.8 98.4
 157 72.3 41.5 124.5

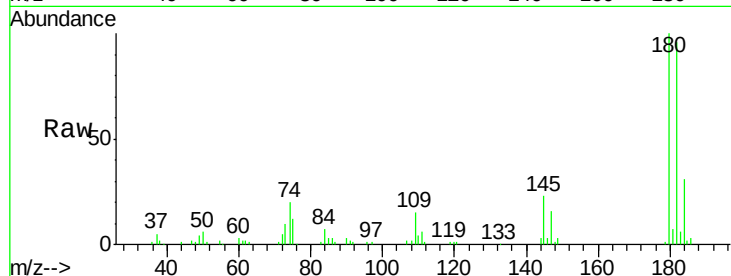




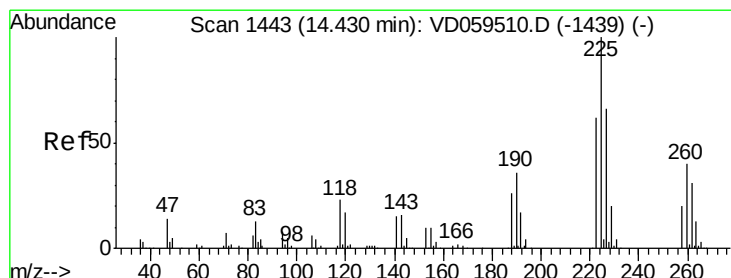
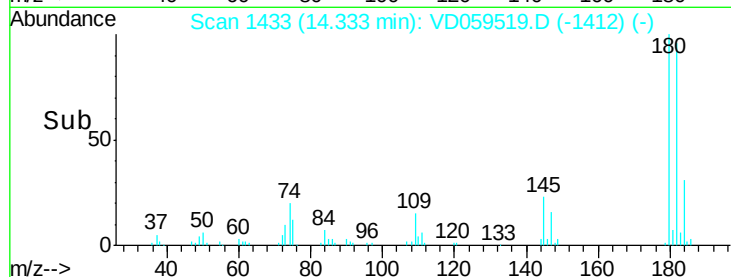
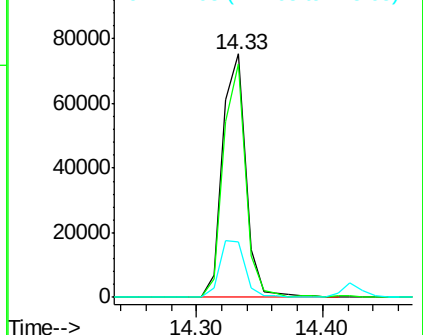
#93
 1,2,4-Trichlorobenzene
 Concen: 10.854 ug/l
 RT: 14.33 min Scan# 1433
 Delta R.T. 0.00 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

Tot Ion:180 Resp: 96408
 Ion Ratio Lower Upper
 180 100
 182 95.7 48.7 146.1
 145 22.9 13.2 39.6

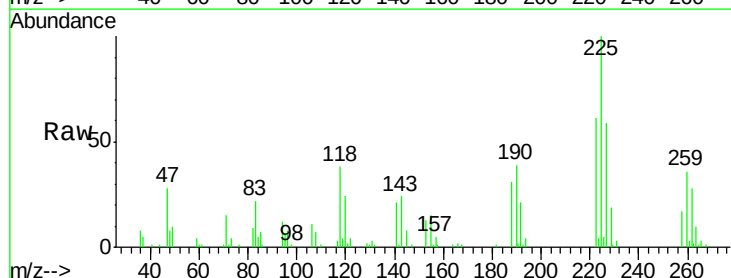


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

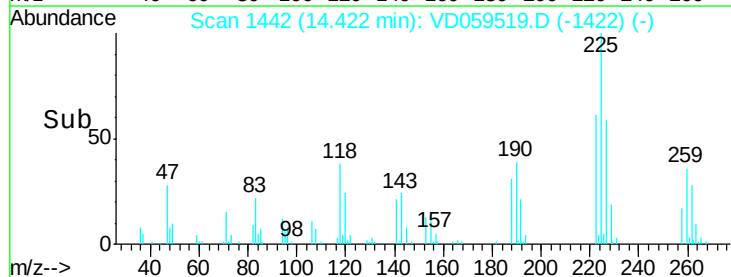
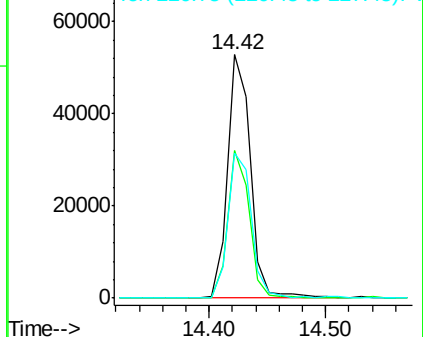


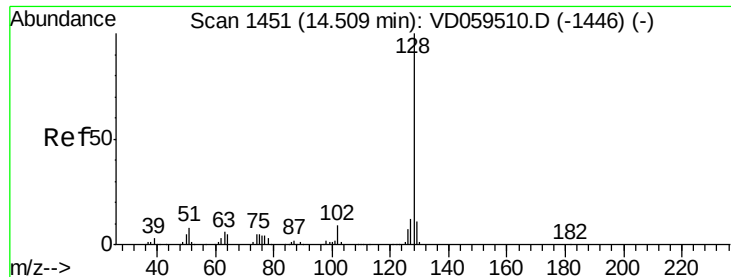
#94
 Hexachlorobutadiene
 Concen: 10.575 ug/l
 RT: 14.42 min Scan# 1442
 Delta R.T. -0.01 min
 Lab File: VD059519.D
 Acq: 2 Jul 2018 23:46

Tgt Ion:225 Resp: 71850
 Ion Ratio Lower Upper
 225 100
 223 60.6 31.0 93.0
 227 59.4 33.1 99.5



Abundance Ion 224.75 (224.45 to 225.45): V
 Ion 222.75 (222.45 to 223.45): V
 Ion 226.75 (226.45 to 227.45): V





#95

Naphthalene

Concen: 10.157 ug/l

RT: 14.50 min Scan# 1450

Delta R.T. -0.01 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

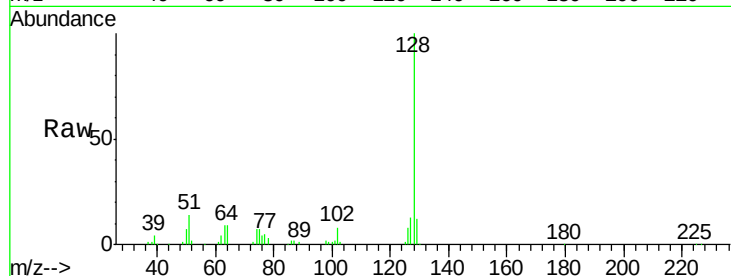
Tot Ion:128 Resp: 134193

Ion Ratio Lower Upper

128 100

127 13.1 9.8 14.8

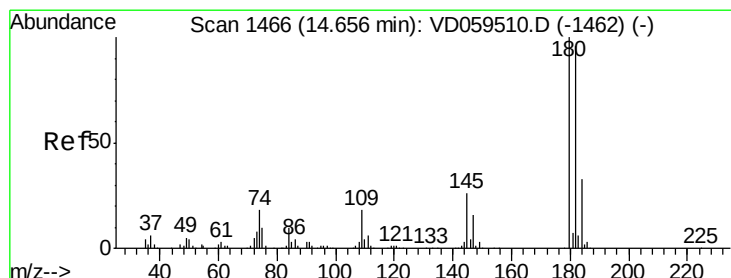
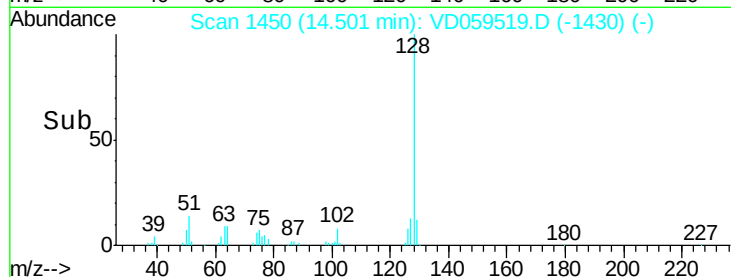
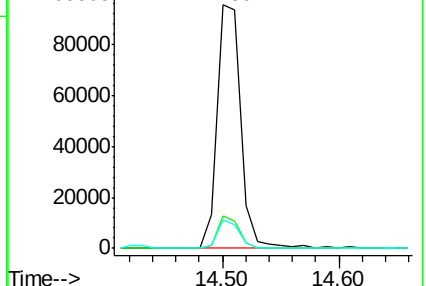
129 11.6 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 10.074 ug/l

RT: 14.65 min Scan# 1465

Delta R.T. -0.01 min

Lab File: VD059519.D

Acq: 2 Jul 2018 23:46

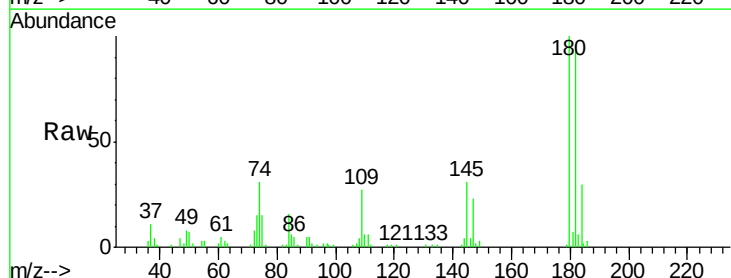
Tgt Ion:180 Resp: 78684

Ion Ratio Lower Upper

180 100

182 95.8 48.1 144.4

145 31.4 13.2 39.6



Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

