

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081518\
 Data File : VD059792.D
 Acq On : 15 Aug 2018 5:33
 Operator : VA/AP
 Sample : J3762-02
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 36 Sample Multiplier: 1

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

Quant Time: Aug 15 17:51:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D081518S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 15 16:08:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	275617	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.70	114	376708	50.00	ug/l	0.01
63) Chlorobenzene-d5	10.69	117	308753	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.90	152	162824	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.02	65	192118	54.25	ug/l	0.00
Spiked Amount			Recovery	=	108.50%	
35) Dibromofluoromethane	5.55	113	172054	52.41	ug/l	0.01
Spiked Amount			Recovery	=	104.82%	
50) Toluene-d8	8.71	98	399435	51.37	ug/l	0.00
Spiked Amount			Recovery	=	102.74%	
62) 4-Bromofluorobenzene	11.93	95	175490	50.38	ug/l	0.00
Spiked Amount			Recovery	=	100.76%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.34	85	32272	9.61	ug/l	98
3) Chloromethane	1.49	50	19202	10.41	ug/l	90
4) Vinyl Chloride	1.56	62	19125	9.79	ug/l	97
5) Bromomethane	1.80	94	6898	11.09	ug/l	88
6) Chloroethane	1.89	64	8139	9.99	ug/l	98
7) Trichlorofluoromethane	2.09	101	31499	10.27	ug/l	97
8) Diethyl Ether	2.35	74	6029	10.22	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.56	101	17813	10.36	ug/l	93
10) Methyl Iodide	2.70	142	15858	10.24	ug/l	94
11) Tert butyl alcohol	3.26	59	7460	59.54	ug/l #	74
12) 1,1-Dichloroethene	2.55	96	11839	9.52	ug/l	98
13) Acrolein	2.48	56	3358	46.05	ug/l	88
14) Allyl chloride	2.93	41	31011	9.92	ug/l	97
15) Acrylonitrile	3.36	53	27085	61.70	ug/l	97
16) Acetone	2.61	43	28203	50.46	ug/l	99
17) Carbon Disulfide	2.76	76	38438	9.22	ug/l	97
18) Methyl Acetate	2.94	43	12322	10.32	ug/l	96
19) Methyl tert-butyl Ether	3.41	73	66254	10.92	ug/l	97
20) Methylene Chloride	3.07	84	23416	13.18	ug/l	91
21) trans-1,2-Dichloroethene	3.39	96	27218	11.11	ug/l	94
22) Diisopropyl ether	4.08	45	92992	11.03	ug/l	99
23) Vinyl Acetate	4.02	43	279233	58.49	ug/l	98
24) 1,1-Dichloroethane	3.97	63	54889	10.98	ug/l	99
25) 2-Butanone	4.85	43	40702	47.59	ug/l	99
26) 2,2-Dichloropropane	4.81	77	46502	10.17	ug/l	96
27) cis-1,2-Dichloroethene	4.82	96	28930	10.78	ug/l	89
28) Bromochloromethane	5.15	49	21485	10.95	ug/l	97
29) Tetrahydrofuran	5.19	42	20943	57.39	ug/l	99
30) Chloroform	5.33	83	61627	10.26	ug/l	99
31) Cyclohexane	5.59	56	40688	11.31	ug/l	95
32) 1,1,1-Trichloroethane	5.51	97	54740	10.37	ug/l	96
36) 1,1-Dichloropropene	5.75	75	40302	10.43	ug/l	94
37) Ethyl Acetate	4.92	43	23337	12.07	ug/l #	97
38) Carbon Tetrachloride	5.73	117	46030	9.87	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.29	83	35762	10.70	ug/l	98
40) Benzene	6.02	78	86242	10.52	ug/l	97
41) Methacrylonitrile	5.13	41	10559	11.42	ug/l	90
42) 1,2-Dichloroethane	6.13	62	45735	10.31	ug/l	99
43) Isopropyl Acetate	7.62	43	26586	10.89	ug/l	99
44) Trichloroethene	6.98	130	29121	10.37	ug/l	99
45) 1,2-Dichloropropane	7.35	63	23819	11.18	ug/l	97
46) Dibromomethane	7.46	93	16875	9.68	ug/l #	71
47) Bromodichloromethane	7.75	83	43361	10.15	ug/l	95
48) Methyl methacrylate	7.50	41	18169	11.41	ug/l	99
49) 1,4-Dioxane	7.50	88	2656	189.34	ug/l	90
51) 4-Methyl-2-Pentanone	8.59	43	92160	49.95	ug/l	98
52) Toluene	8.80	92	53984	10.28	ug/l	99
53) t-1,3-Dichloropropene	9.18	75	36230	10.23	ug/l	95
54) cis-1,3-Dichloropropene	8.36	75	38063	9.95	ug/l	91
55) 1,1,2-Trichloroethane	9.45	97	21155	10.91	ug/l	97
56) Ethyl methacrylate	9.31	69	21944	10.45	ug/l	97
57) 1,3-Dichloropropane	9.67	76	32528	10.71	ug/l	95
58) 2-Chloroethyl Vinyl ether	8.19	63	58608	56.47	ug/l	95
59) 2-Hexanone	9.78	43	66835	50.51	ug/l	98
60) Dibromochloromethane	9.96	129	30738	10.92	ug/l	91
61) 1,2-Dibromoethane	10.09	107	23611	10.99	ug/l	93
64) Tetrachloroethene	9.51	164	29472	11.08	ug/l	96
65) Chlorobenzene	10.72	112	68845	11.01	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.85	131	27516	10.92	ug/l	83
67) Ethyl Benzene	10.86	91	124267	11.54	ug/l	96
68) m/p-Xylenes	11.01	106	81301	22.28	ug/l	97
69) o-Xylene	11.41	106	39378	11.24	ug/l	85
70) Styrene	11.43	104	67182	10.82	ug/l	98
71) Bromoform	11.60	173	18115	9.89	ug/l	95
73) Isopropylbenzene	11.77	105	117712	11.42	ug/l	97
74) N-amyl acetate	11.64	43	34226	10.83	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.08	83	24842	11.87	ug/l	99
76) 1,2,3-Trichloropropane	12.12	75	26271	11.37	ug/l	93
77) Bromobenzene	12.04	156	34055	11.56	ug/l	83
78) n-propylbenzene	12.15	91	148976	11.58	ug/l	99
79) 2-Chlorotoluene	12.21	91	87875	11.33	ug/l	95
80) 1,3,5-Trimethylbenzene	12.32	105	92602	11.22	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.84	75	5683	10.51	ug/l	91
82) 4-Chlorotoluene	12.32	91	99879	11.35	ug/l	97
83) tert-Butylbenzene	12.58	119	100557	11.02	ug/l	93
84) 1,2,4-Trimethylbenzene	12.63	105	97567	10.97	ug/l	99
85) sec-Butylbenzene	12.75	105	122225	11.56	ug/l	98
86) p-Isopropyltoluene	12.88	119	97794	11.05	ug/l	96
87) 1,3-Dichlorobenzene	12.84	146	59629	11.29	ug/l	94
88) 1,4-Dichlorobenzene	12.92	146	58266	11.12	ug/l	96
89) n-Butylbenzene	13.20	91	101166	11.31	ug/l	96
90) Hexachloroethane	13.40	117	24281	10.94	ug/l	87
91) 1,2-Dichlorobenzene	13.19	146	53697	12.36	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.77	75	4167	11.16	ug/l	83

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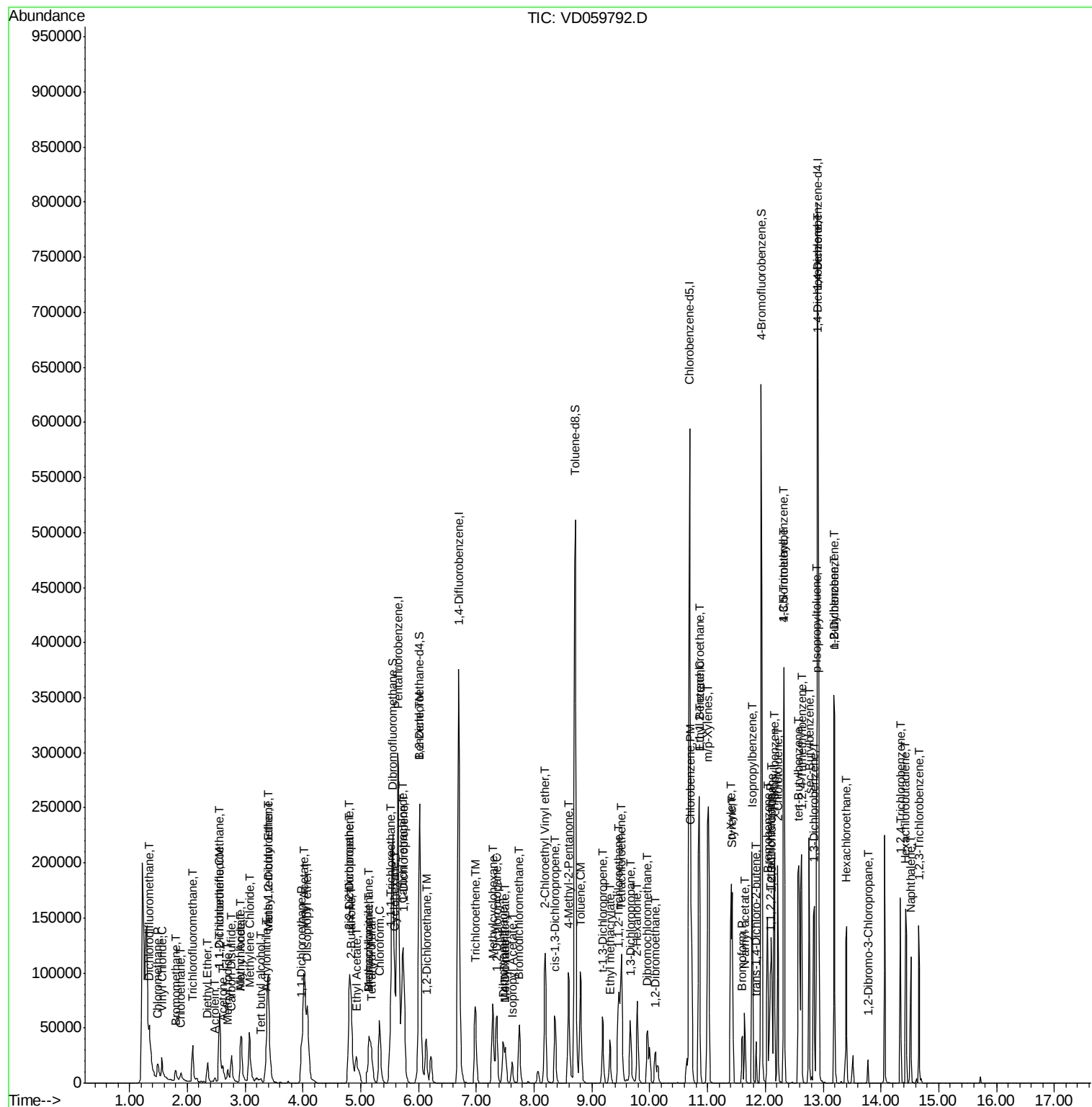
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.34	180	41663	11.47	ug/l	93
94) Hexachlorobutadiene	14.44	225	26450	9.86	ug/l	99
95) Naphthalene	14.52	128	64531	11.60	ug/l	99
96) 1,2,3-Trichlorobenzene	14.66	180	33569	10.47	ug/l	97

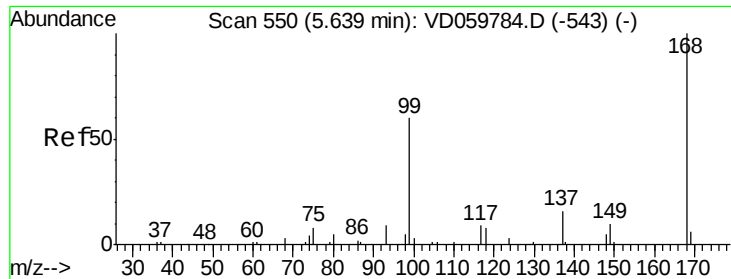
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.65 min Scan# 552

Delta R.T. 0.01 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Instrument :

MSVOA_D

ClientSampleId :

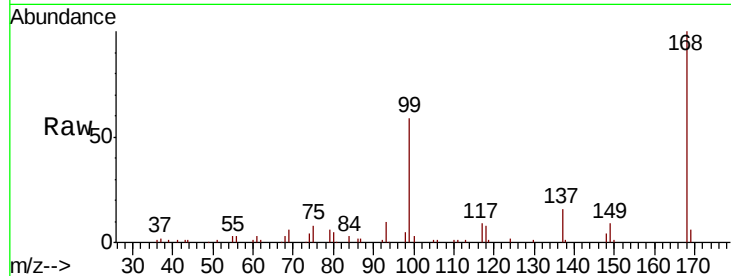
LOQ-SOIL-02-QT3-2018

Tot Ion:168 Resp: 275617

Ion Ratio Lower Upper

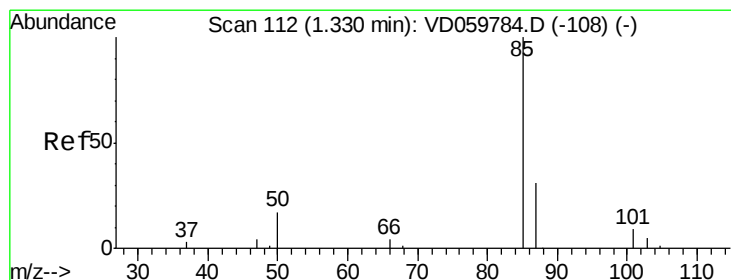
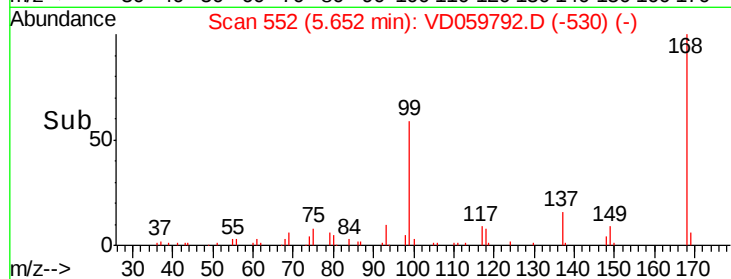
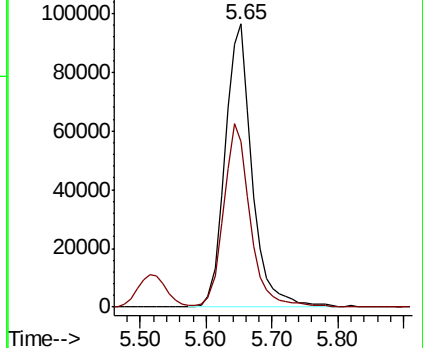
168 100

99 58.7 50.3 75.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 9.61 ug/l

RT: 1.34 min Scan# 114

Delta R.T. 0.01 min

Lab File: VD059792.D

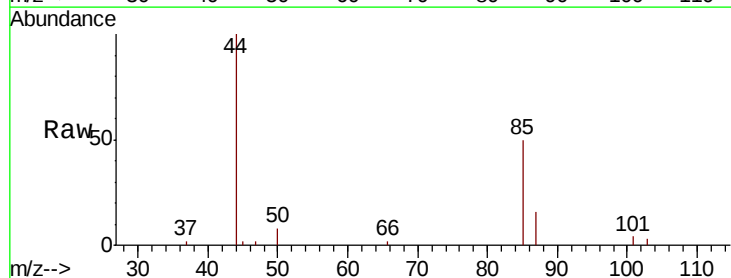
Acq: 15 Aug 2018 5:33

Tgt Ion: 85 Resp: 32272

Ion Ratio Lower Upper

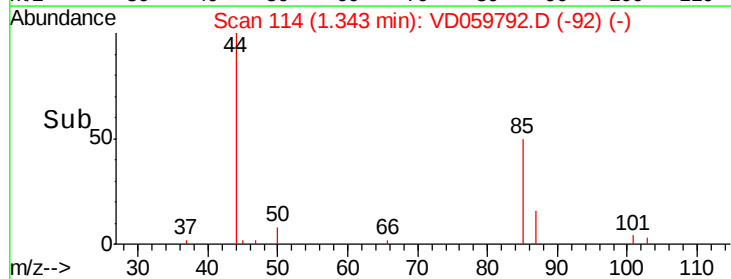
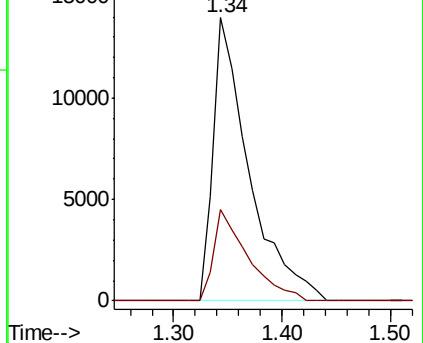
85 100

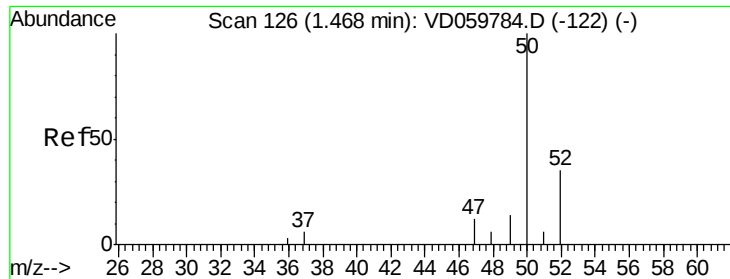
87 32.5 15.7 47.1



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 10.41 ug/l

RT: 1.49 min Scan# 129

Delta R.T. 0.02 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Instrument :

MSVOA_D

ClientSampleId :

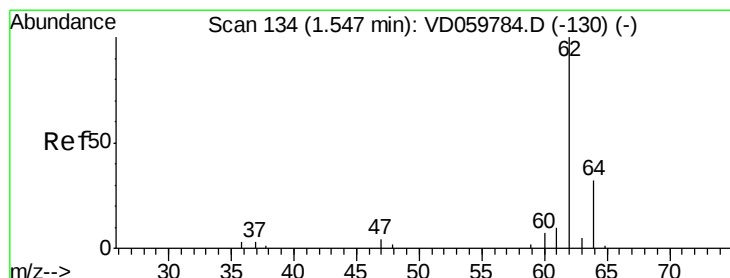
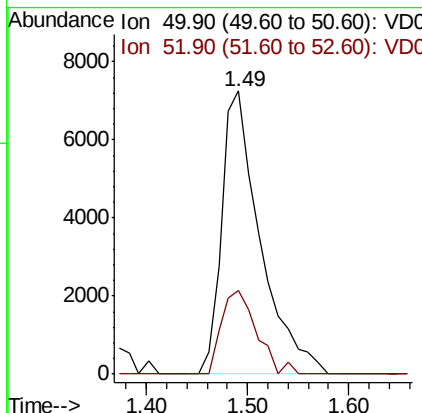
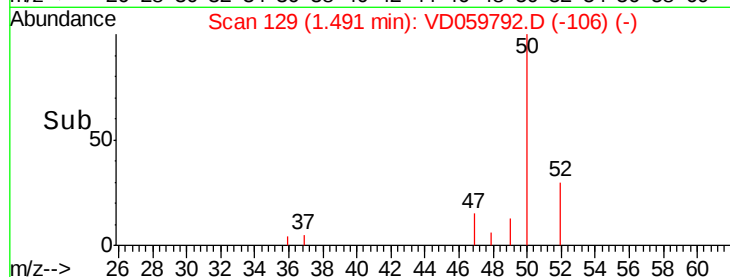
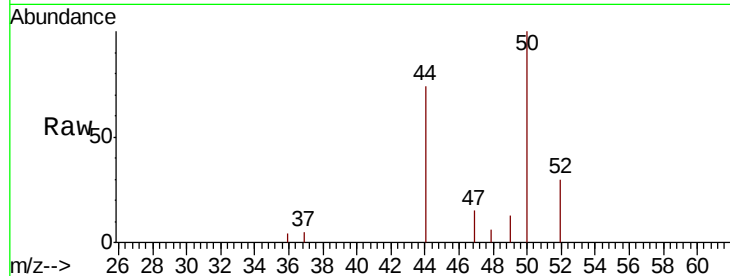
LOQ-SOIL-02-QT3-2018

Tot Ion: 50 Resp: 19202

Ion Ratio Lower Upper

50 100

52 29.7 28.4 42.6



#4

Vinyl Chloride

Concen: 9.79 ug/l

RT: 1.56 min Scan# 136

Delta R.T. 0.01 min

Lab File: VD059792.D

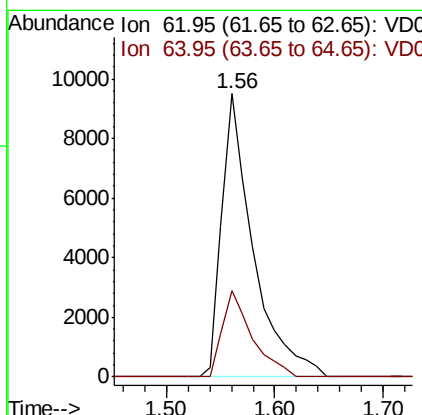
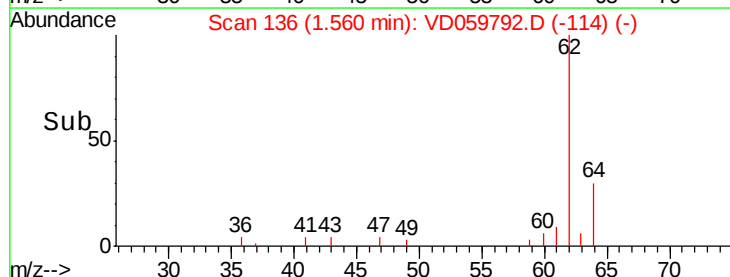
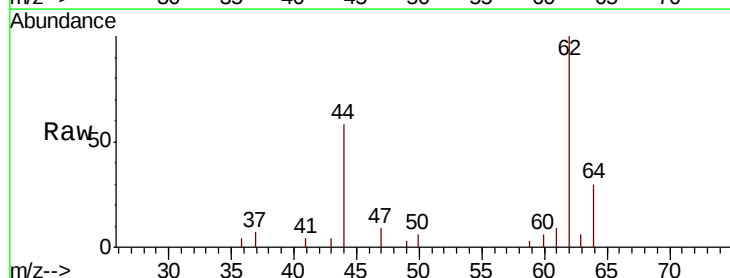
Acq: 15 Aug 2018 5:33

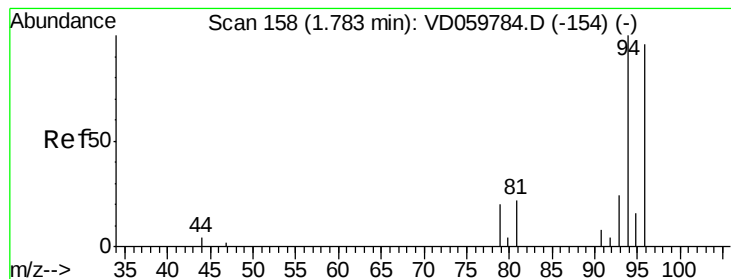
Tgt Ion: 62 Resp: 19125

Ion Ratio Lower Upper

62 100

64 30.5 25.5 38.3





#5

Bromomethane

Concen: 11.09 ug/l

RT: 1.80 min Scan# 160

Delta R.T. 0.01 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Instrument :

MSVOA_D

ClientSampleId :

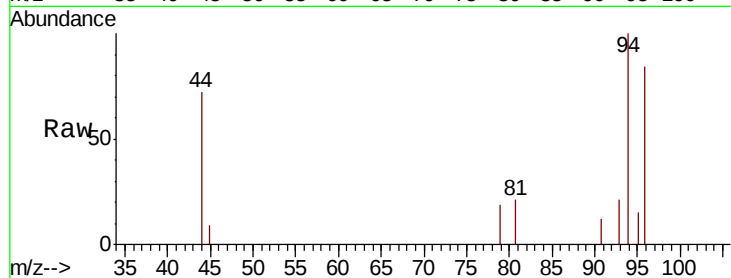
LOQ-SOIL-02-QT3-2018

Tot Ion: 94 Resp: 6898

Ion Ratio Lower Upper

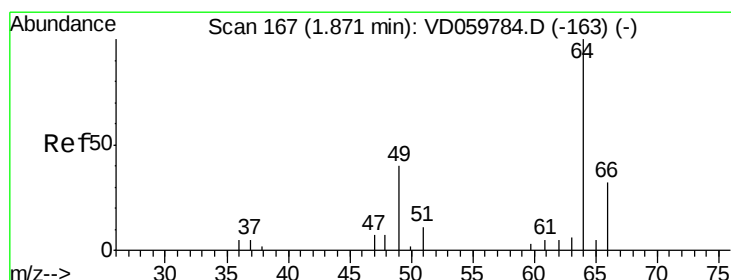
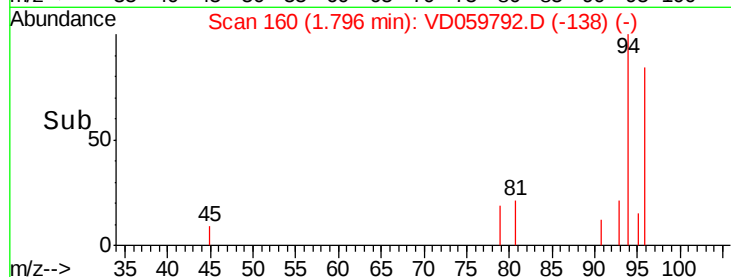
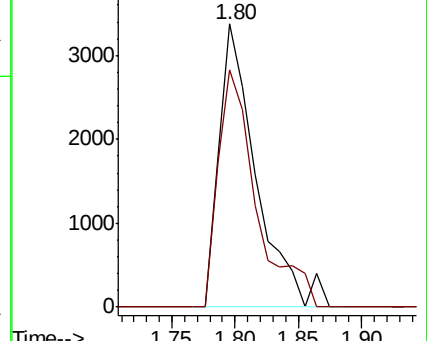
94 100

96 83.8 76.7 115.1



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 9.99 ug/l

RT: 1.89 min Scan# 170

Delta R.T. 0.02 min

Lab File: VD059792.D

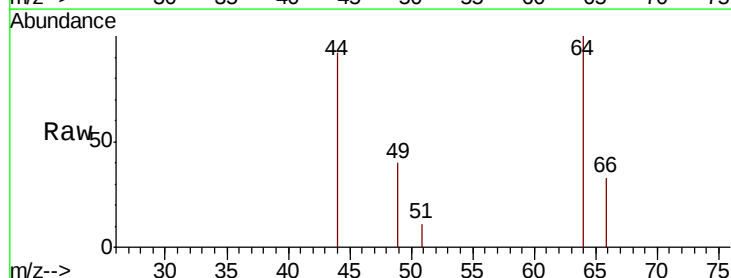
Acq: 15 Aug 2018 5:33

Tgt Ion: 64 Resp: 8139

Ion Ratio Lower Upper

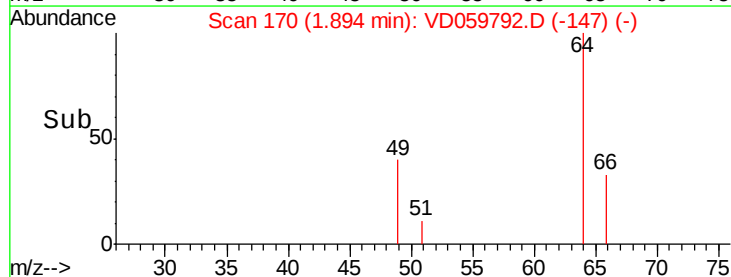
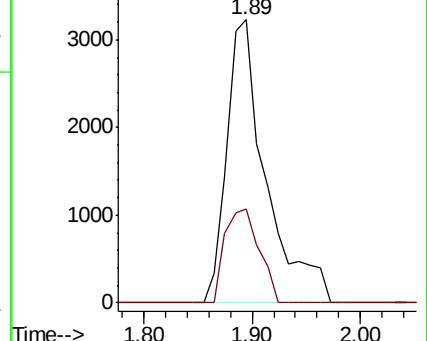
64 100

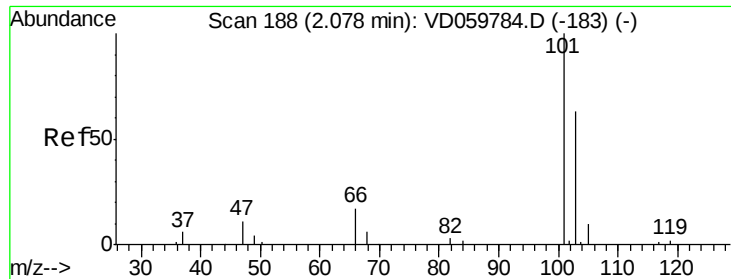
66 33.1 25.4 38.2



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

Trichlorofluoromethane

Concen: 10.27 ug/l

RT: 2.09 min Scan# 190

Delta R.T. 0.01 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Instrument :

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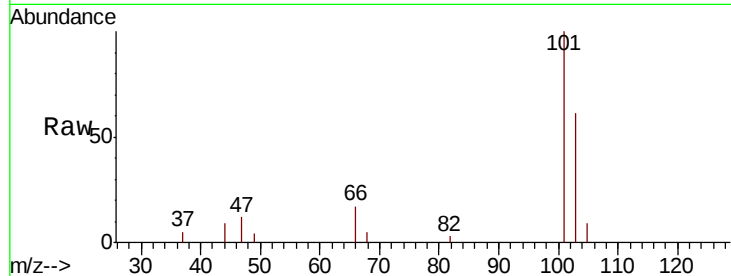
LOQ-SOIL-02-QT3-2018

Tot Ion:101 Resp: 31499

Ion Ratio Lower Upper

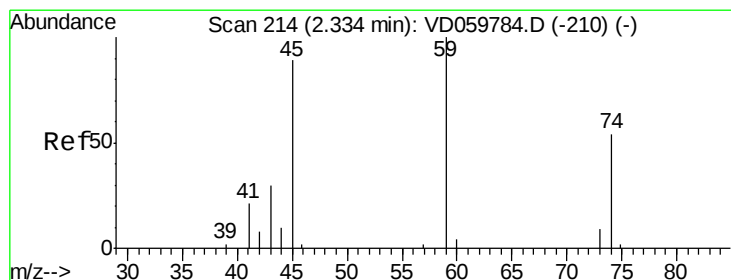
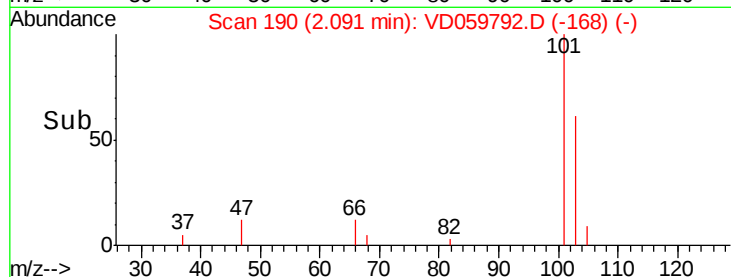
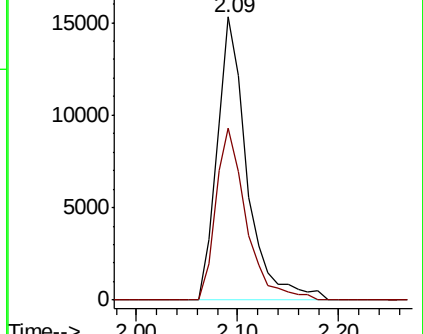
101 100

103 60.8 50.4 75.6



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 102.85 (102.55 to 103.55): V



#8

Diethyl Ether

Concen: 10.22 ug/l

RT: 2.35 min Scan# 216

Delta R.T. 0.01 min

Lab File: VD059792.D

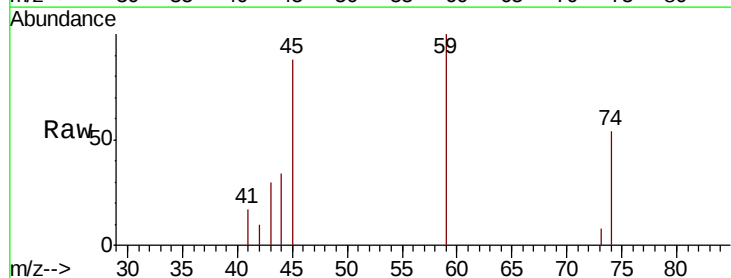
Acq: 15 Aug 2018 5:33

Tgt Ion: 74 Resp: 6029

Ion Ratio Lower Upper

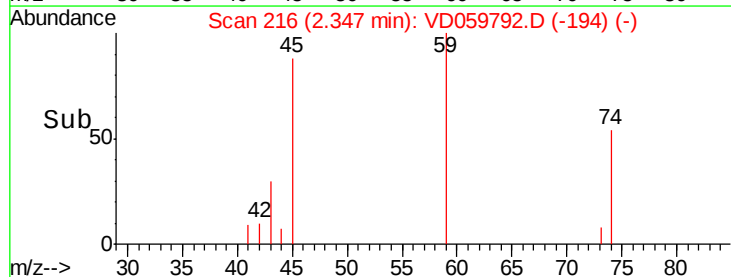
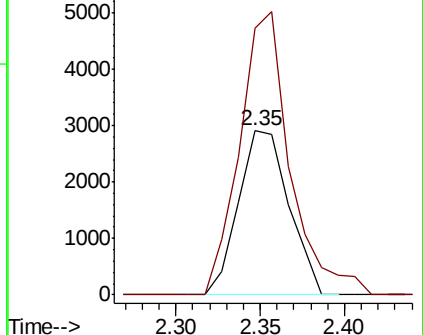
74 100

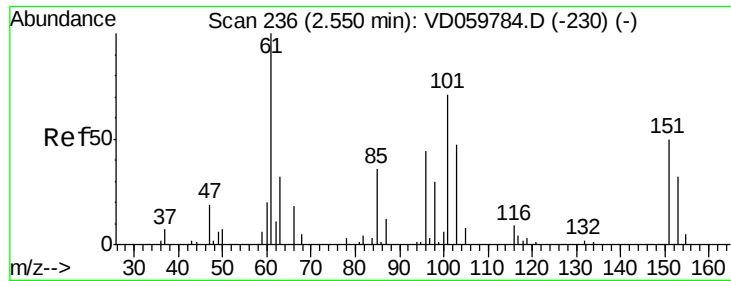
45 162.6 81.6 244.8



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: 10.36 ug/l

RT: 2.56 min Scan# 238

Delta R.T. 0.01 min

Lab File: VD059792.D

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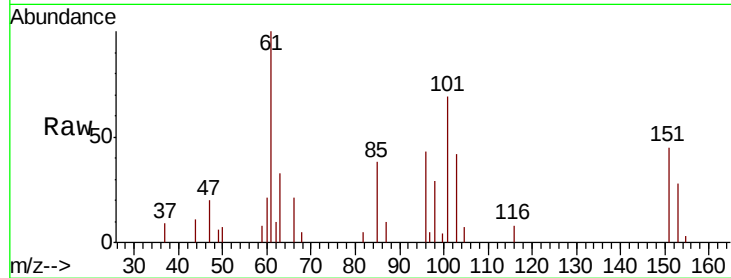
Tot Ion:101 Resp: 17813

Ion Ratio Lower Upper

101 100

85 55.4 40.6 61.0

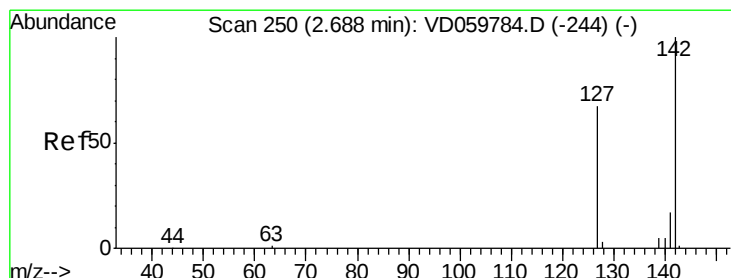
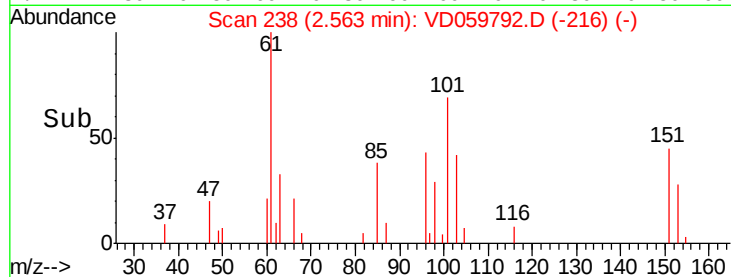
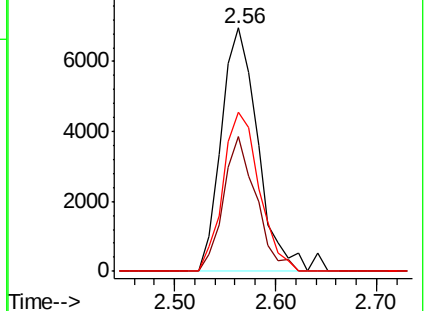
151 65.2 57.1 85.7



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: 10.24 ug/l

RT: 2.70 min Scan# 252

Delta R.T. 0.01 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

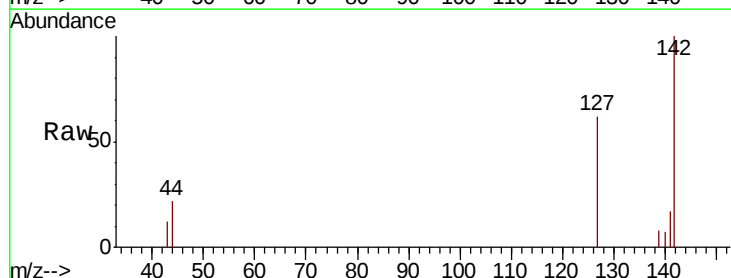
Tgt Ion:142 Resp: 15858

Ion Ratio Lower Upper

142 100

127 62.0 54.0 81.0

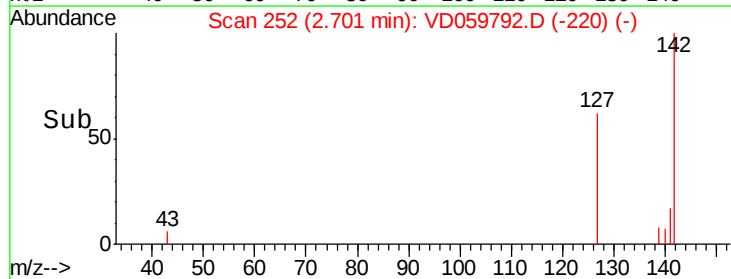
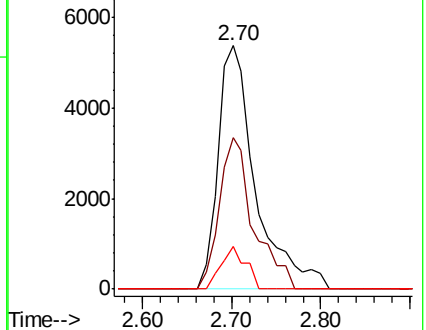
141 17.3 13.3 19.9

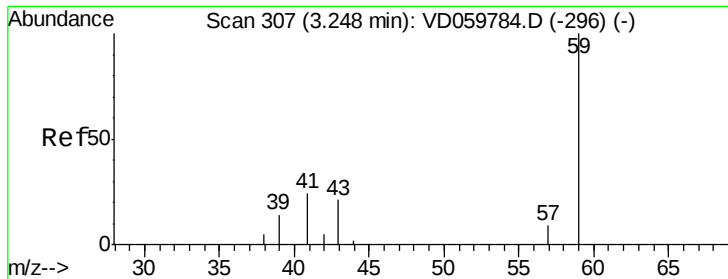


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

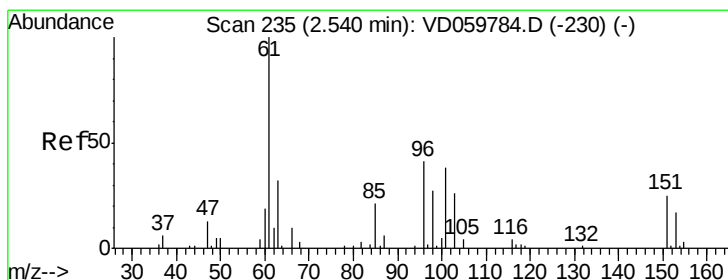
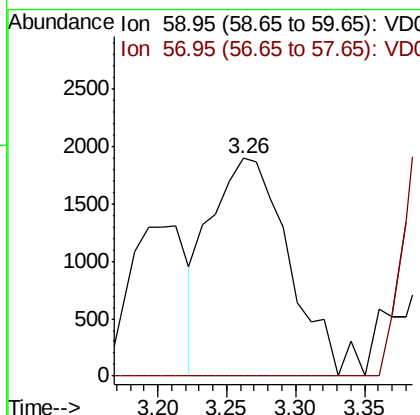
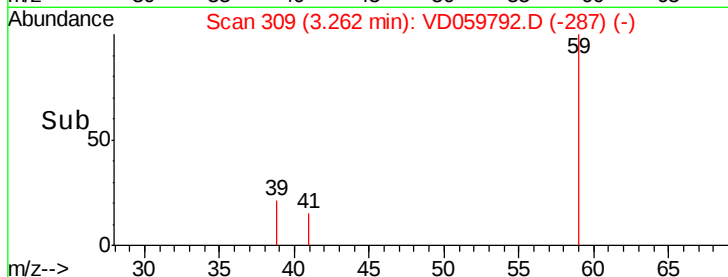
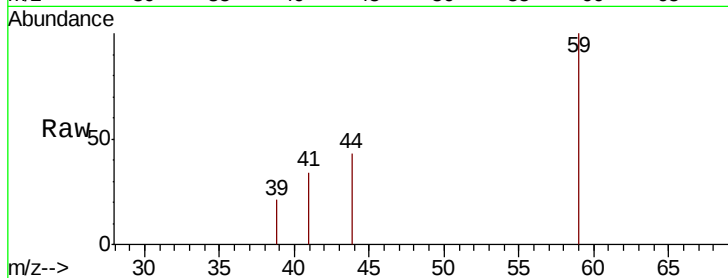




#11
Tert butyl alcohol
Concen: 59.54 ug/l
RT: 3.26 min Scan# 309
Delta R.T. 0.01 min
Lab File: VD059792.D
Acq: 15 Aug 2018 5:33

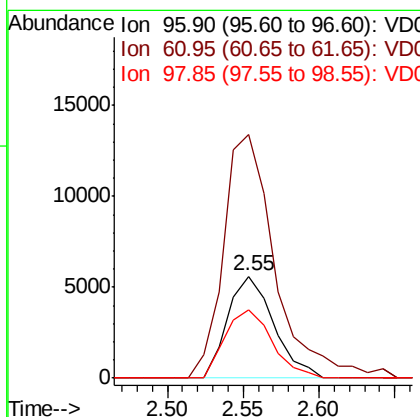
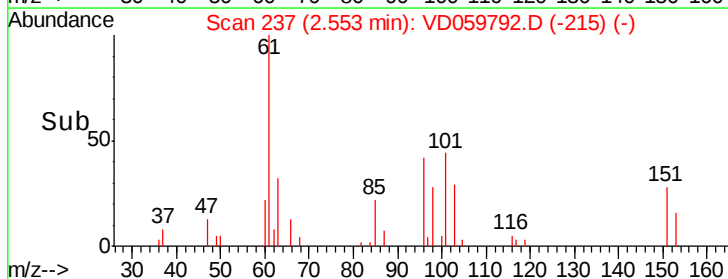
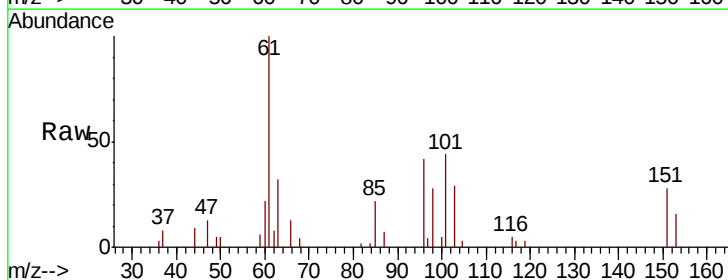
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

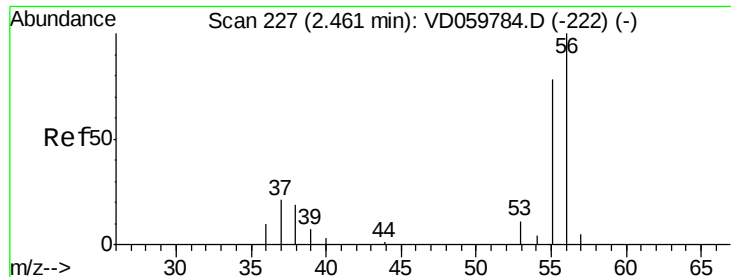
Tot Ion: 59 Resp: 7460
Ion Ratio Lower Upper
59 100
57 0.0 7.5 11.3#



#12
1,1-Dichloroethene
Concen: 9.52 ug/l
RT: 2.55 min Scan# 237
Delta R.T. 0.01 min
Lab File: VD059792.D
Acq: 15 Aug 2018 5:33

Tgt Ion: 96 Resp: 11839
Ion Ratio Lower Upper
96 100
61 239.0 194.1 291.1
98 66.6 52.3 78.5





#13

Acrolein

Concen: 46.05 ug/l

RT: 2.48 min Scan# 230

Delta R.T. 0.02 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Instrument :

MSVOA_D

ClientSampleId :

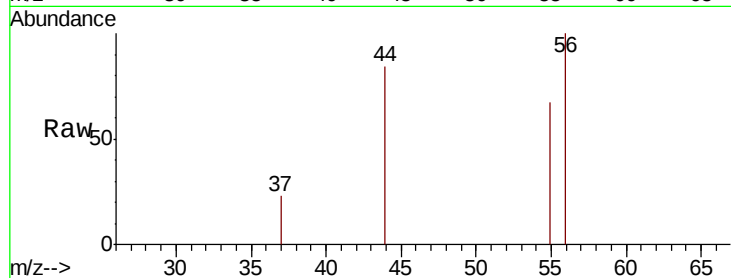
LOQ-SOIL-02-QT3-2018

Tot Ion: 56 Resp: 3358

Ion Ratio Lower Upper

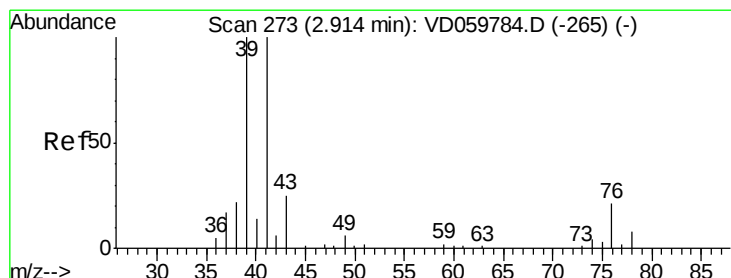
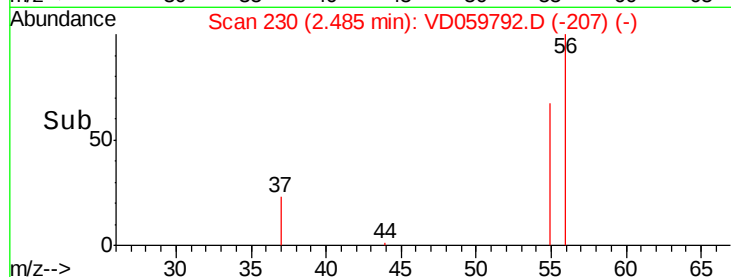
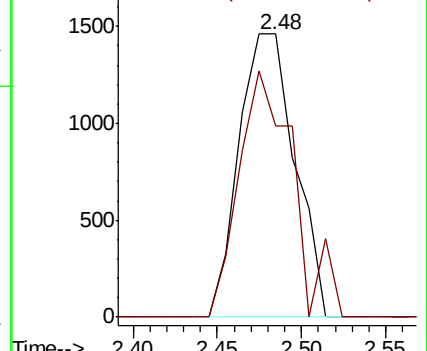
56 100

55 67.5 62.2 93.2



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 9.92 ug/l

RT: 2.93 min Scan# 275

Delta R.T. 0.01 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

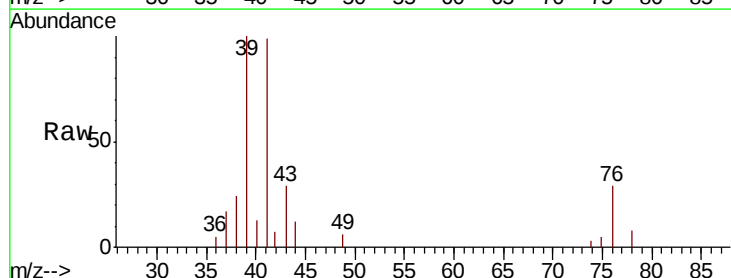
Tgt Ion: 41 Resp: 31011

Ion Ratio Lower Upper

41 100

39 101.5 79.8 119.6

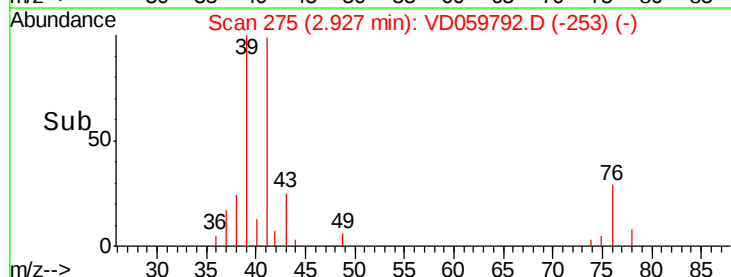
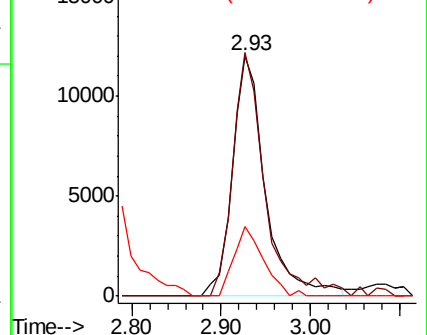
76 29.2 20.4 30.6

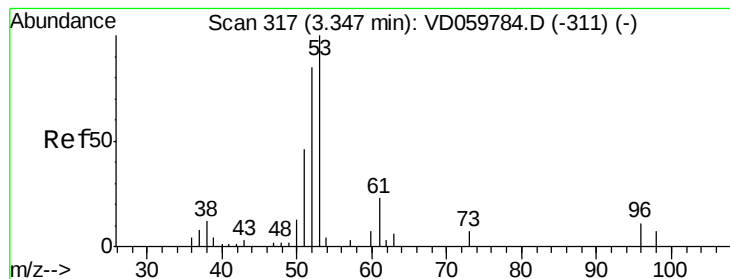


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 61.70 ug/l

RT: 3.36 min Scan# 319

Delta R.T. 0.01 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

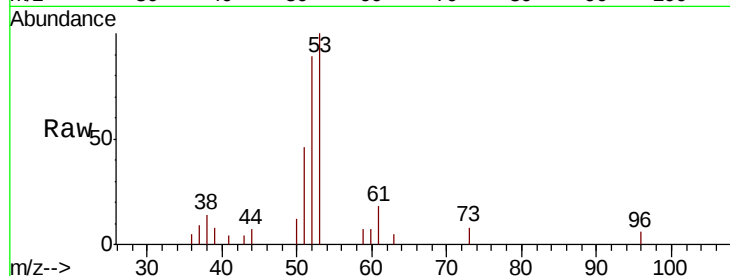
Tot Ion: 53 Resp: 27085

Ion Ratio Lower Upper

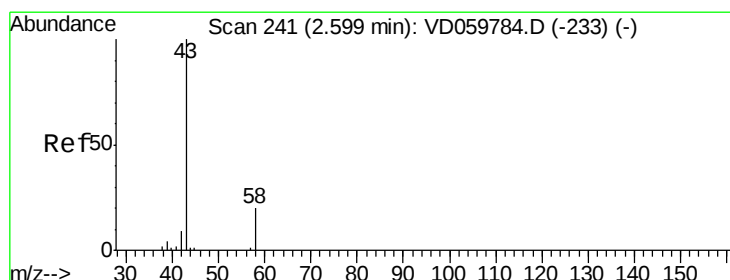
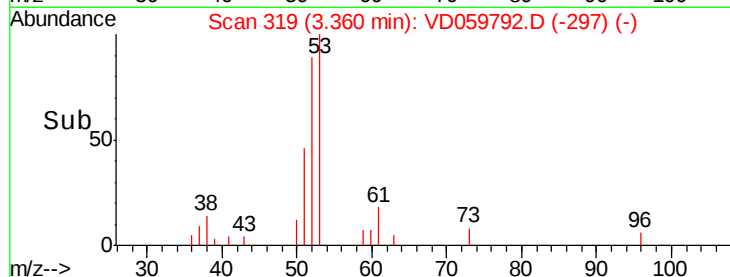
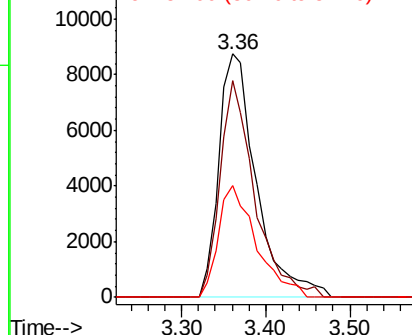
53 100

52 88.8 68.2 102.2

51 45.7 36.6 54.8



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



#16

Acetone

Concen: 50.46 ug/l

RT: 2.61 min Scan# 243

Delta R.T. 0.01 min

Lab File: VD059792.D

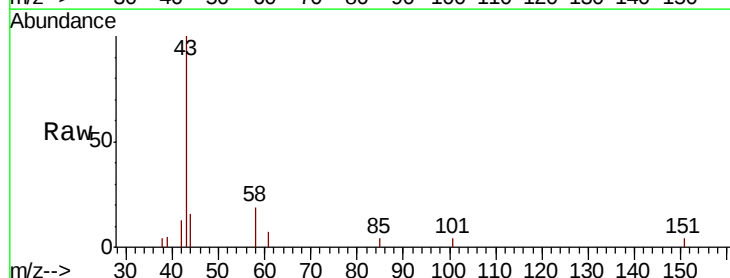
Acq: 15 Aug 2018 5:33

Tgt Ion: 43 Resp: 28203

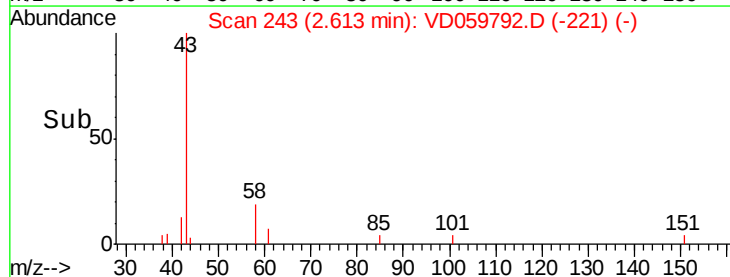
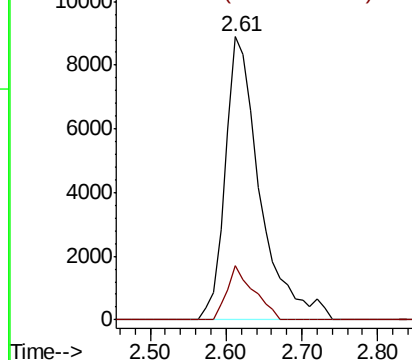
Ion Ratio Lower Upper

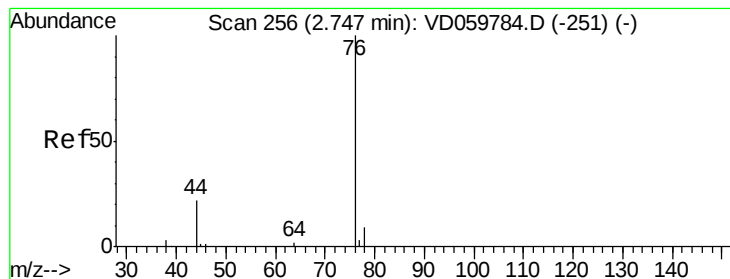
43 100

58 19.4 15.7 23.5



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 9.22 ug/l

RT: 2.76 min Scan# 258

Delta R.T. 0.01 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Instrument :

MSVOA_D

ClientSampleId :

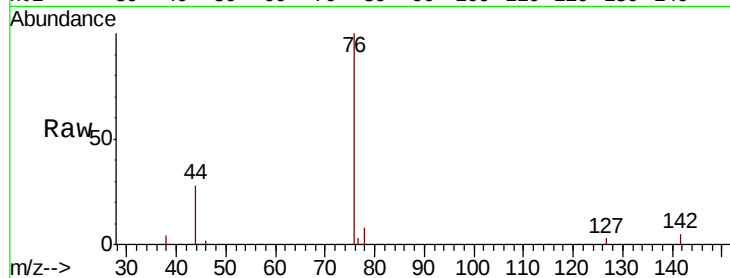
LOQ-SOIL-02-QT3-2018

Tot Ion: 76 Resp: 38438

Ion Ratio Lower Upper

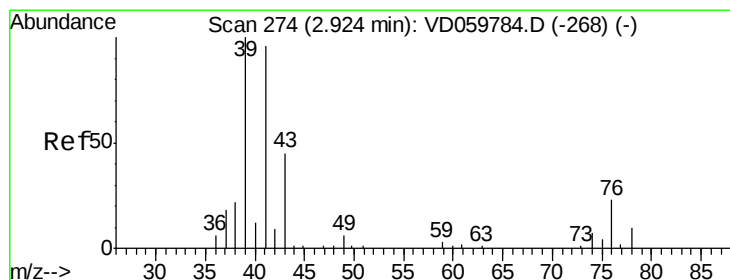
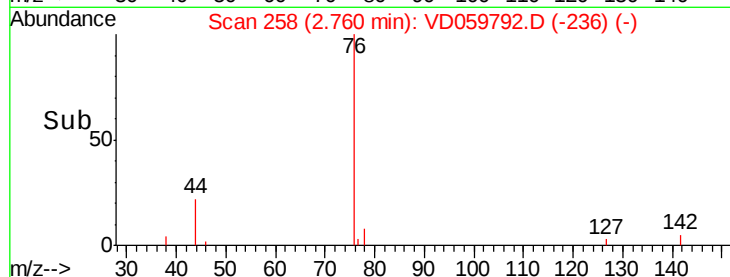
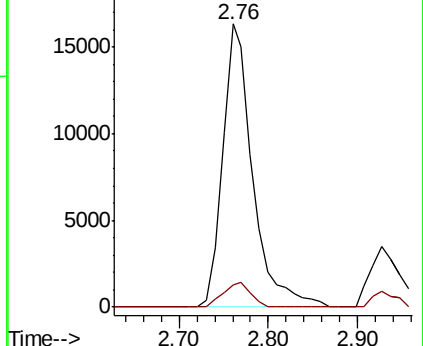
76 100

78 7.7 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: 10.32 ug/l

RT: 2.94 min Scan# 276

Delta R.T. 0.01 min

Lab File: VD059792.D

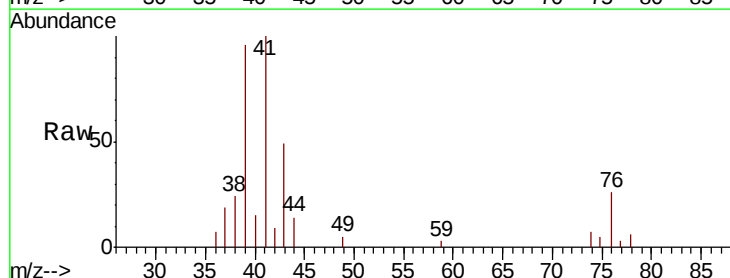
Acq: 15 Aug 2018 5:33

Tgt Ion: 43 Resp: 12322

Ion Ratio Lower Upper

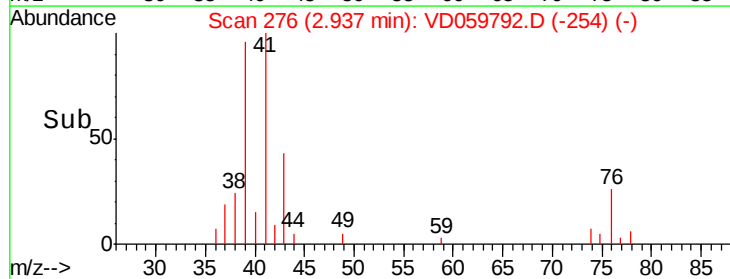
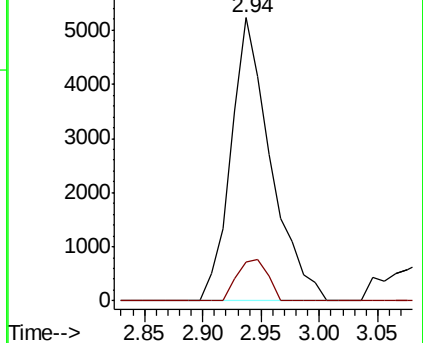
43 100

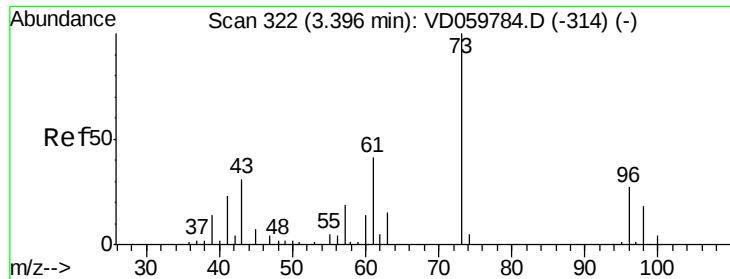
74 13.7 12.4 18.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

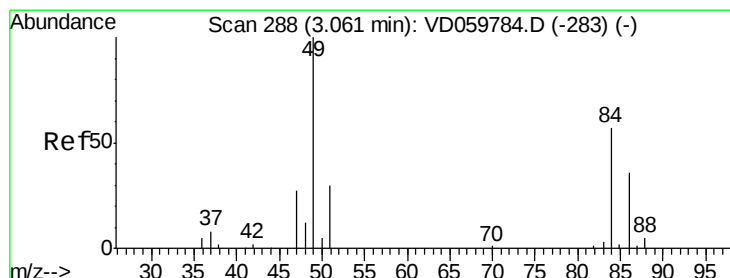
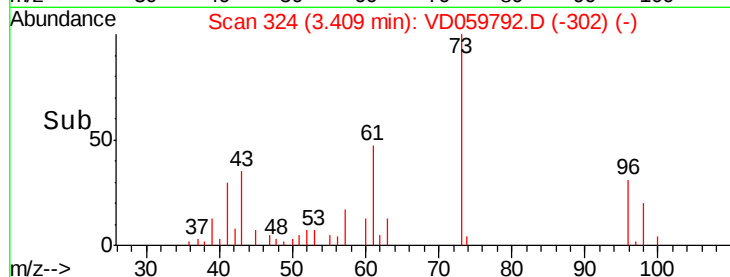
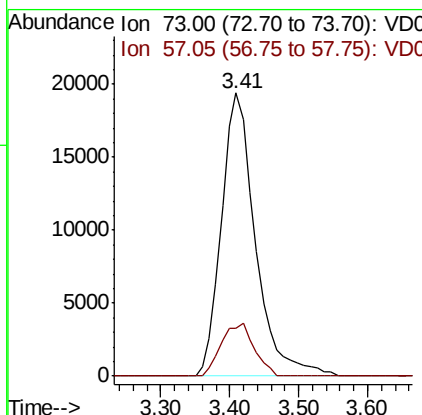
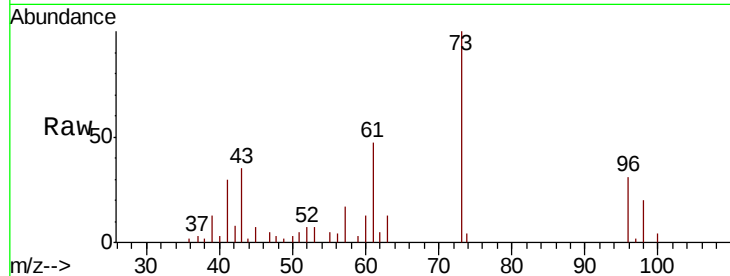




#19
Methvl tert-butvl Ether
Concen: 10.92 ug/l
RT: 3.41 min Scan# 324
Delta R.T. 0.01 min
Lab File: VD059792.D
Acq: 15 Aug 2018 5:33

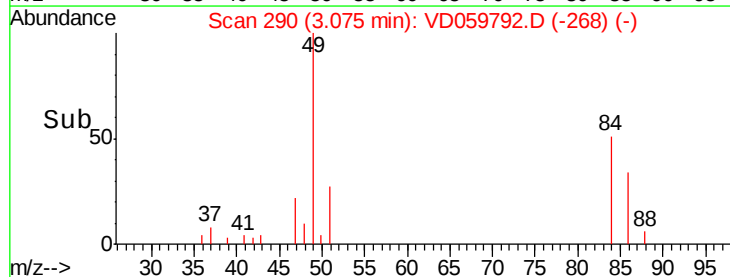
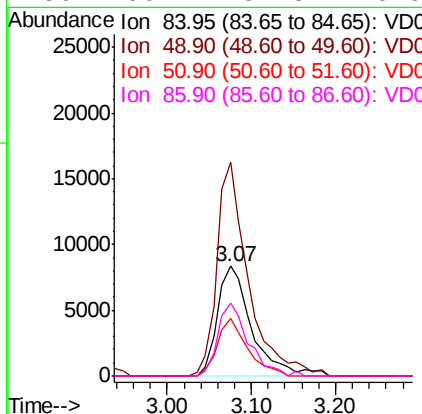
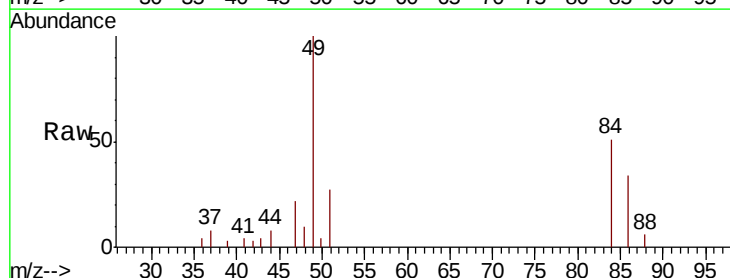
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

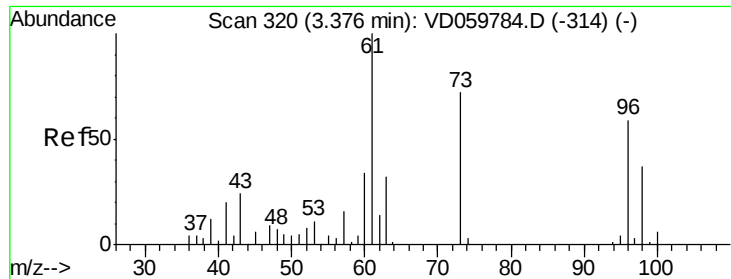
Tot Ion: 73 Resp: 66254
Ion Ratio Lower Upper
73 100
57 17.0 14.8 22.2



#20
Methylene Chloride
Concen: 13.18 ug/l
RT: 3.07 min Scan# 290
Delta R.T. 0.01 min
Lab File: VD059792.D
Acq: 15 Aug 2018 5:33

Tgt Ion: 84 Resp: 23416
Ion Ratio Lower Upper
84 100
49 194.6 140.9 211.3
51 52.1 42.8 64.2
86 66.1 51.3 76.9





#21

trans-1,2-Dichloroethene

Concen: 11.11 ug/l

RT: 3.39 min Scan# 322

Delta R.T. 0.01 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

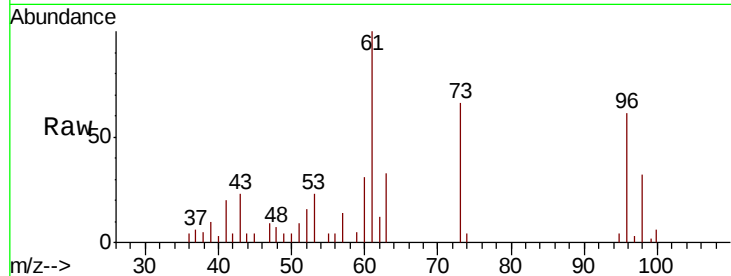
Tot Ion: 96 Resp: 27218

Ion Ratio Lower Upper

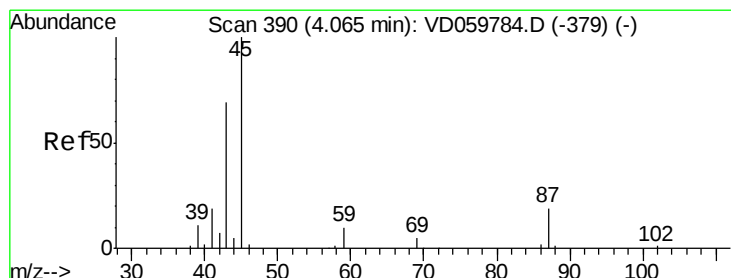
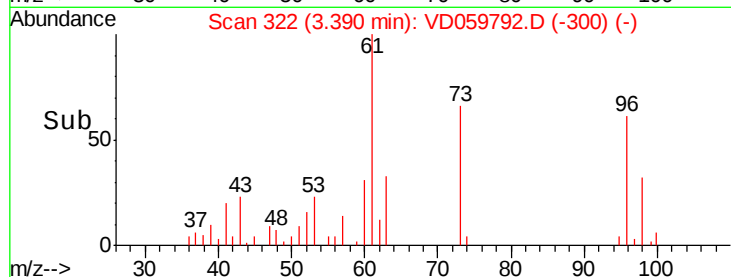
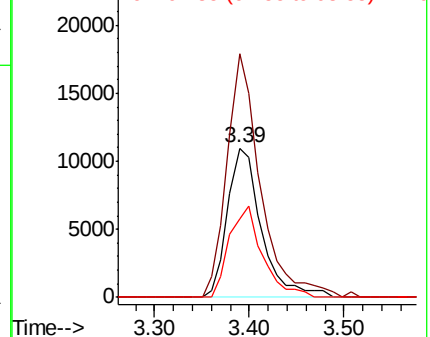
96 100

61 163.2 134.8 202.2

98 52.7 50.0 75.0



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



#22

Diisopropyl ether

Concen: 11.03 ug/l

RT: 4.08 min Scan# 392

Delta R.T. 0.01 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Tgt Ion: 45 Resp: 92992

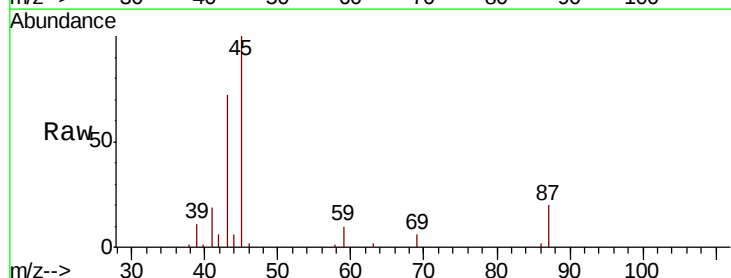
Ion Ratio Lower Upper

45 100

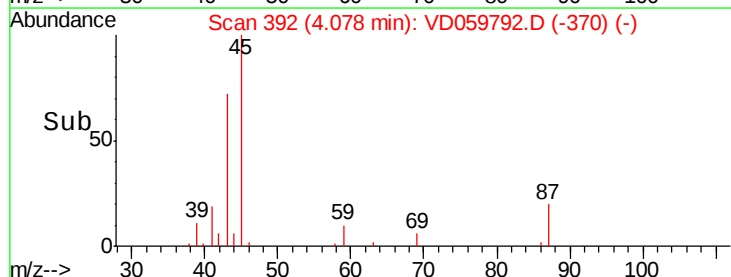
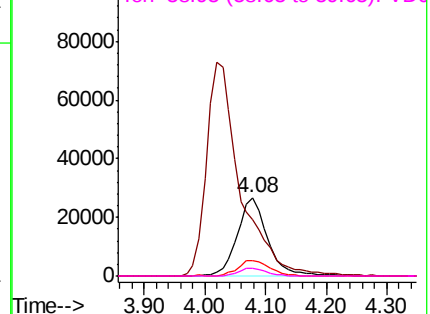
43 72.1 57.5 86.3

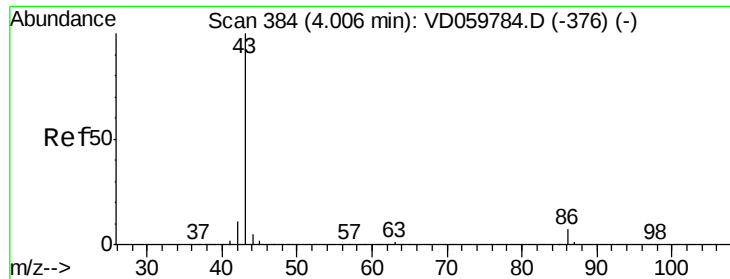
87 19.7 16.1 24.1

59 9.6 8.4 12.6



Abundance Ion 45.05 (44.75 to 45.75): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 58.95 (58.65 to 59.65): VDC

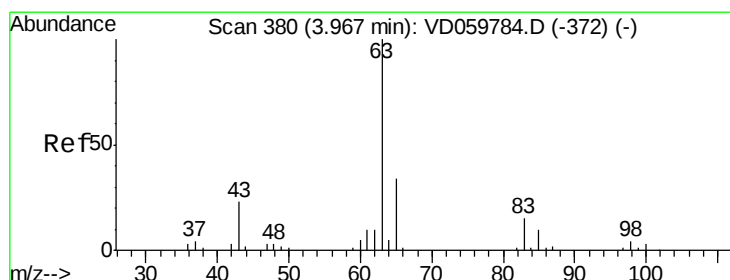
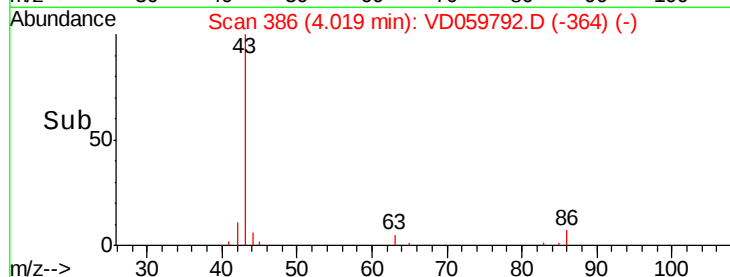
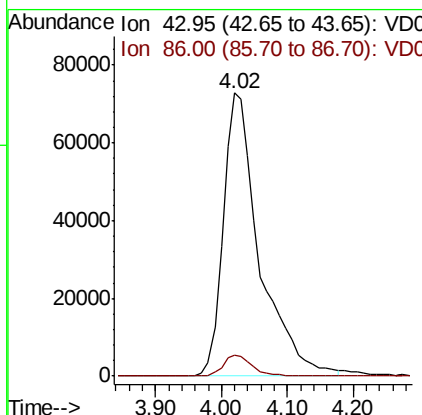
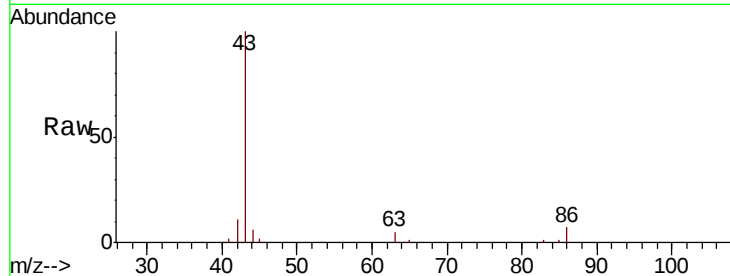




#23
 Vinyl Acetate
 Concen: 58.49 ug/l
 RT: 4.02 min Scan# 386
 Delta R.T. 0.01 min
 Lab File: VD059792.D
 Acq: 15 Aug 2018 5:33

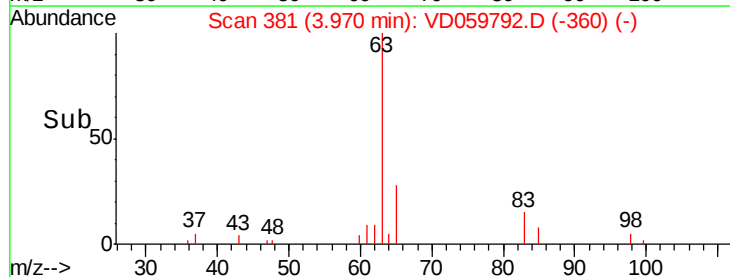
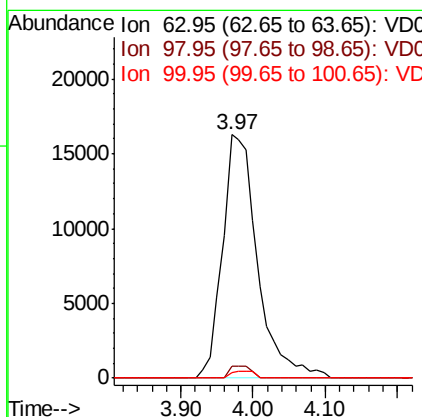
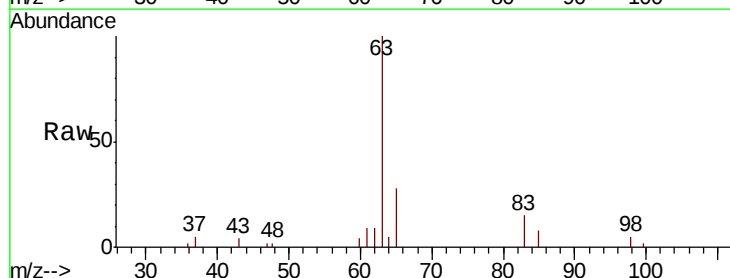
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

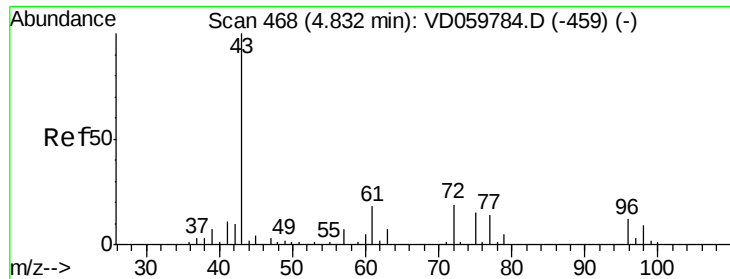
Tot Ion: 43 Resp: 279233
 Ion Ratio Lower Upper
 43 100
 86 7.5 5.4 8.0



#24
 1,1-Dichloroethane
 Concen: 10.98 ug/l
 RT: 3.97 min Scan# 381
 Delta R.T. 0.00 min
 Lab File: VD059792.D
 Acq: 15 Aug 2018 5:33

Tgt Ion: 63 Resp: 54889
 Ion Ratio Lower Upper
 63 100
 98 4.7 2.2 6.6
 100 2.4 1.6 4.7





#25

2-Butanone

Concen: 47.59 ug/l

RT: 4.85 min Scan# 470

Delta R.T. 0.01 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Instrument :

MSVOA_D

ClientSampleId :

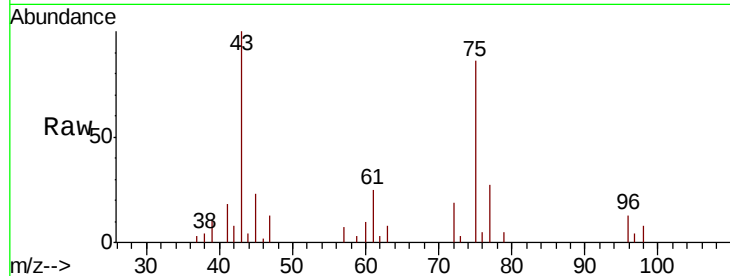
LOQ-SOIL-02-QT3-2018

Tot Ion: 43 Resp: 40702

Ion Ratio Lower Upper

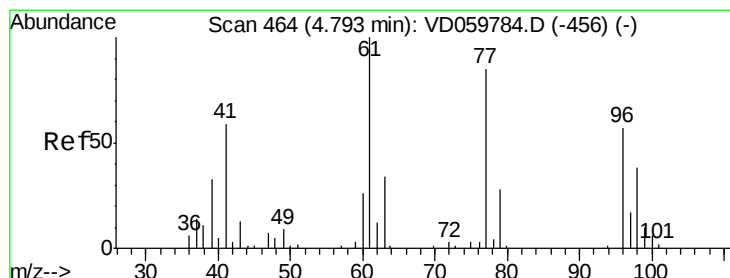
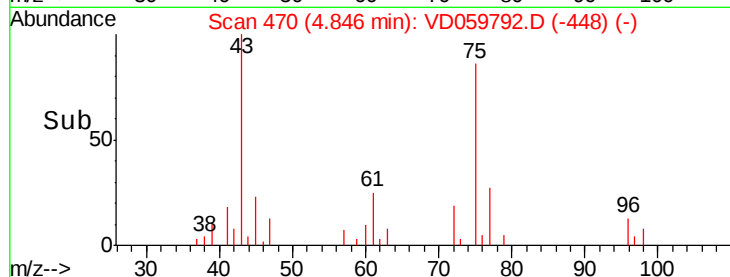
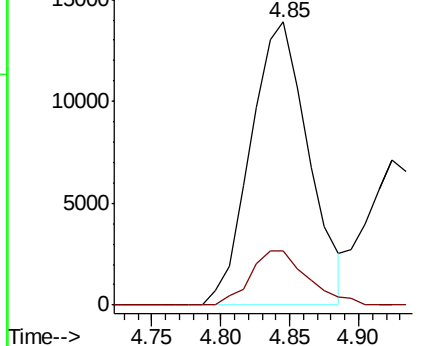
43 100

72 18.9 14.9 22.3



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 10.17 ug/l

RT: 4.81 min Scan# 466

Delta R.T. 0.01 min

Lab File: VD059792.D

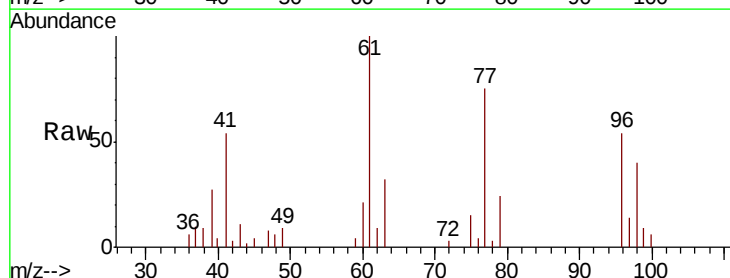
Acq: 15 Aug 2018 5:33

Tgt Ion: 77 Resp: 46502

Ion Ratio Lower Upper

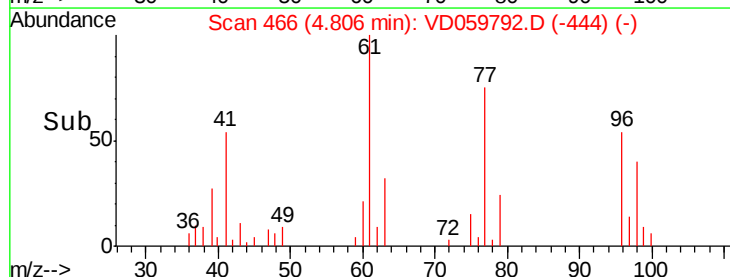
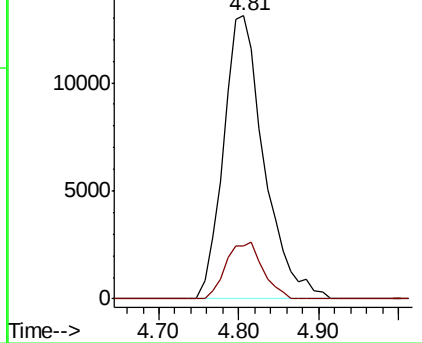
77 100

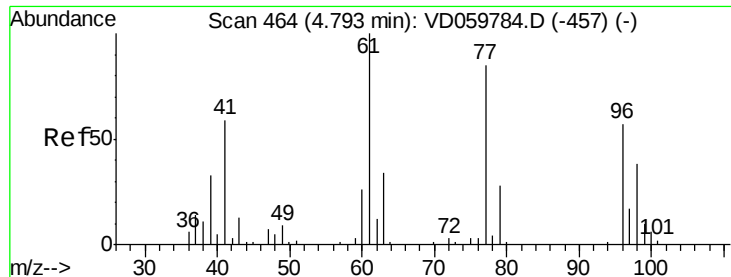
97 18.8 10.3 30.8



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

cis-1,2-Dichloroethene

Concen: 10.78 ug/l

RT: 4.82 min Scan# 467

Delta R.T. 0.02 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

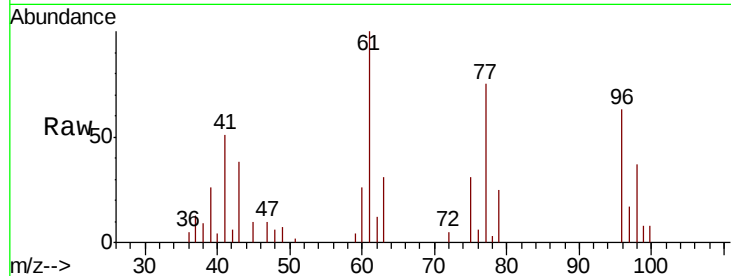
Tot Ion: 96 Resp: 28930

Ion Ratio Lower Upper

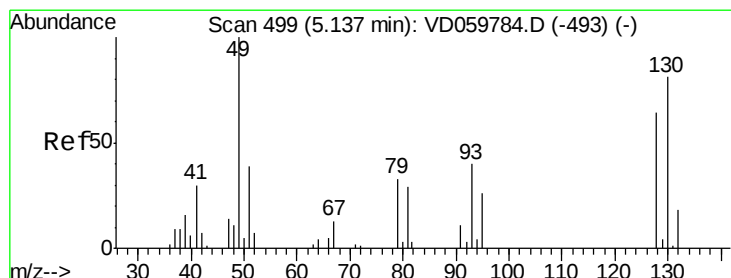
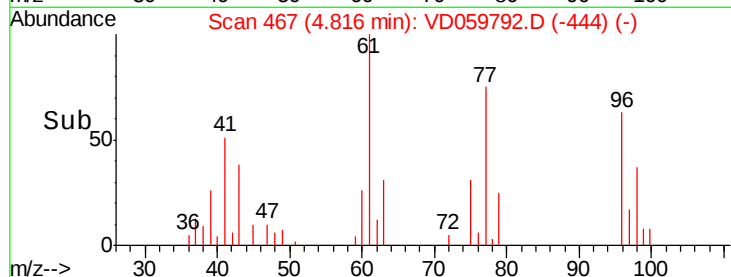
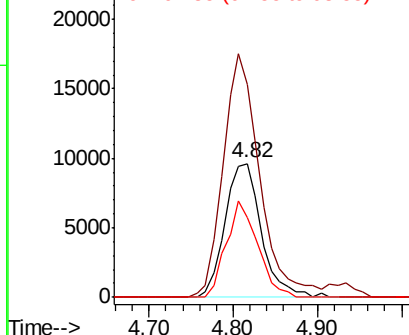
96 100

61 159.5 0.0 351.6

98 59.4 0.0 135.2



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: 10.95 ug/l

RT: 5.15 min Scan# 501

Delta R.T. 0.01 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

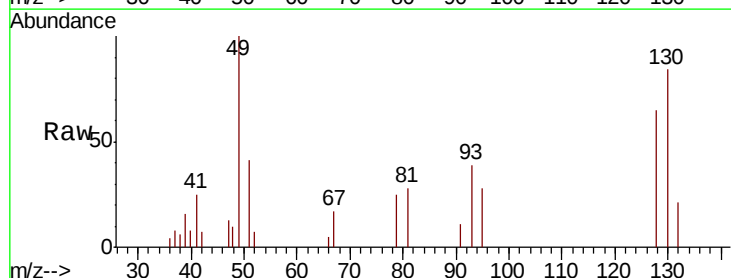
Tgt Ion: 49 Resp: 21485

Ion Ratio Lower Upper

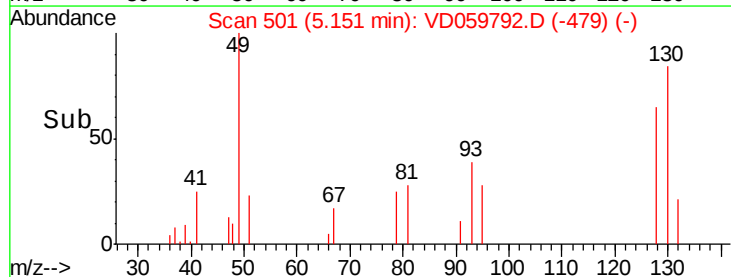
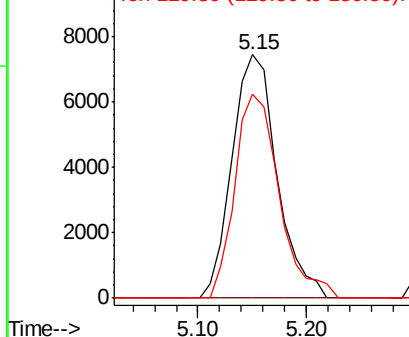
49 100

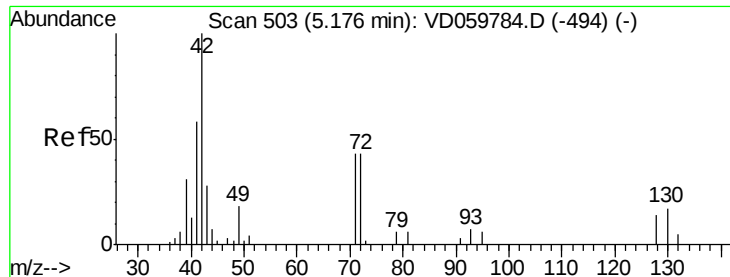
129 0.0 0.0 7.0

130 83.8 64.8 97.2



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: 57.39 ug/l

RT: 5.19 min Scan# 505

Delta R.T. 0.01 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

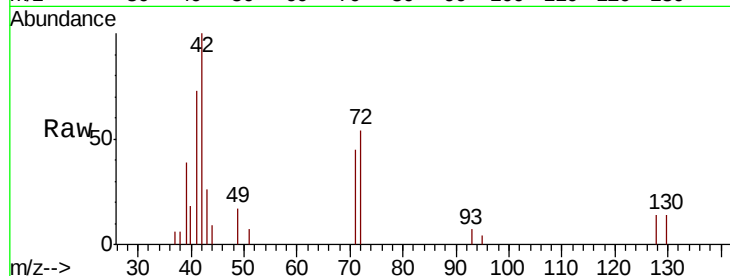
Tot Ion: 42 Resp: 20943

Ion Ratio Lower Upper

42 100

72 42.0 34.3 51.5

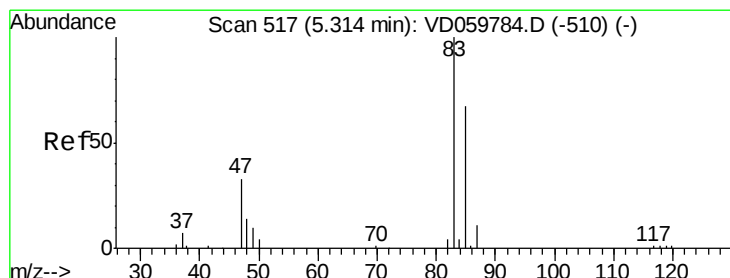
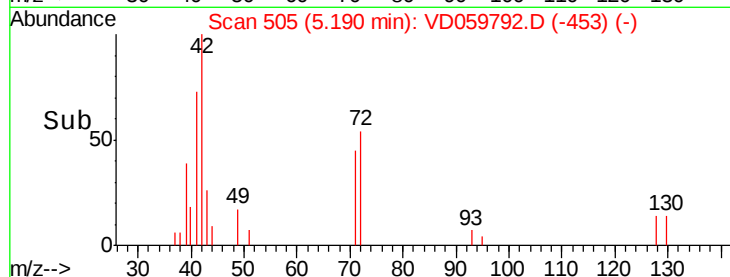
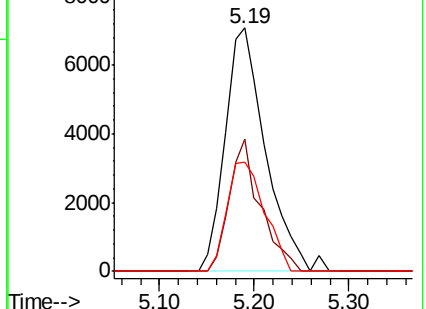
71 41.7 33.0 49.6



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#30

Chloroform

Concen: 10.26 ug/l

RT: 5.33 min Scan# 519

Delta R.T. 0.01 min

Lab File: VD059792.D

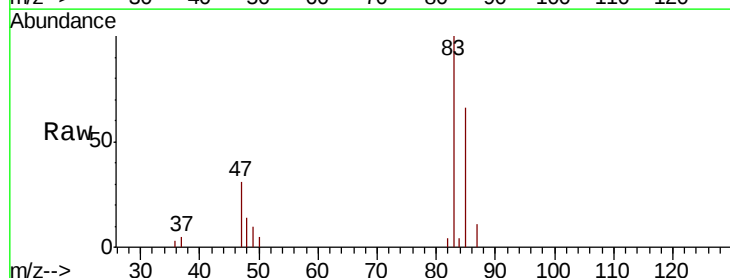
Acq: 15 Aug 2018 5:33

Tgt Ion: 83 Resp: 61627

Ion Ratio Lower Upper

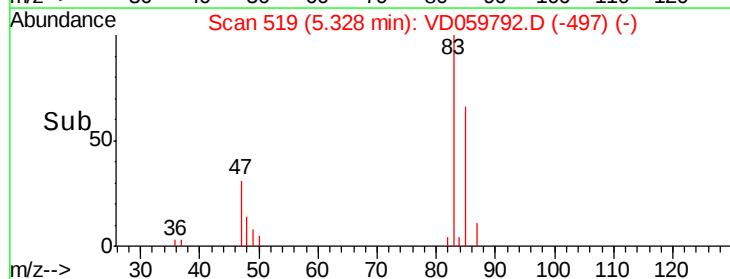
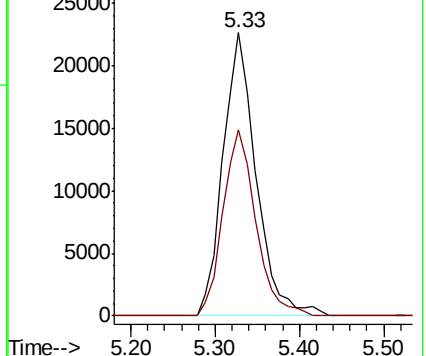
83 100

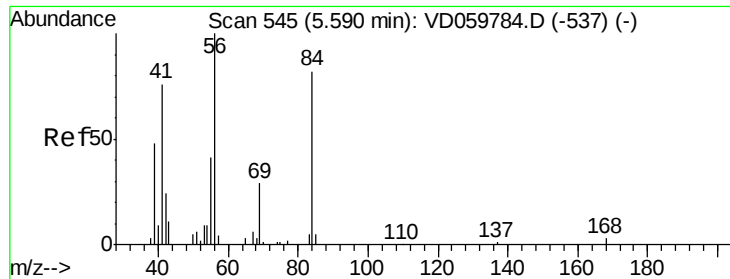
85 65.8 53.4 80.2



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

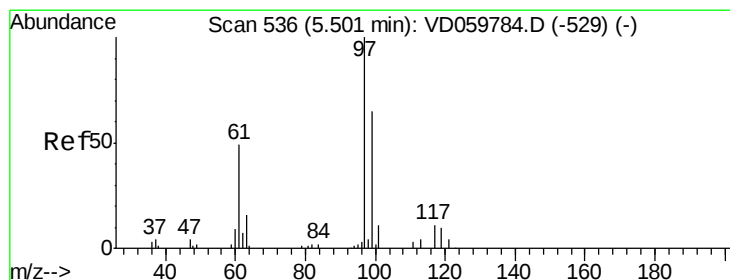
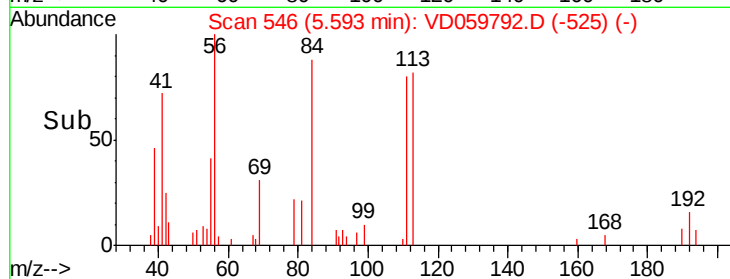
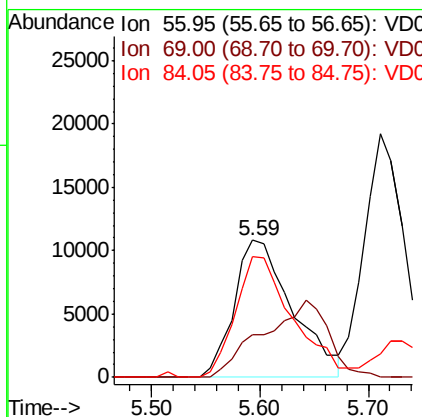
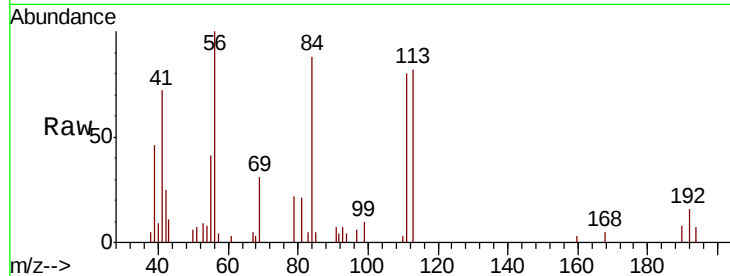




#31
Cyclohexane
Concen: 11.31 ug/l
RT: 5.59 min Scan# 546
Delta R.T. 0.00 min
Lab File: VD059792.D
Acq: 15 Aug 2018 5:33

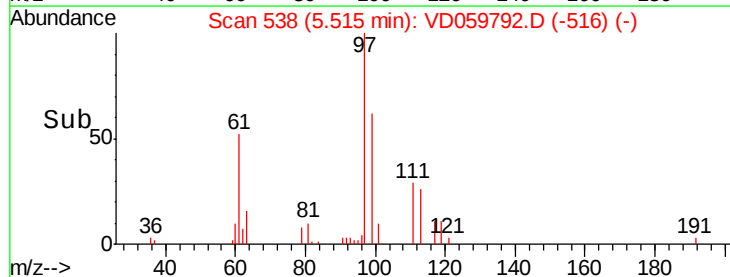
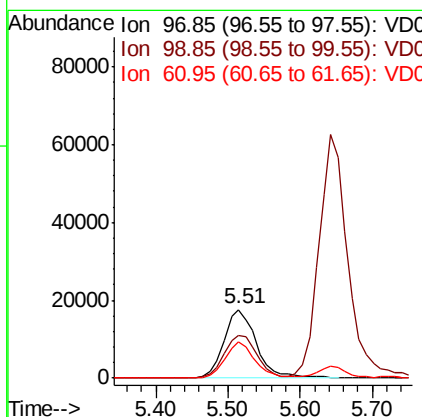
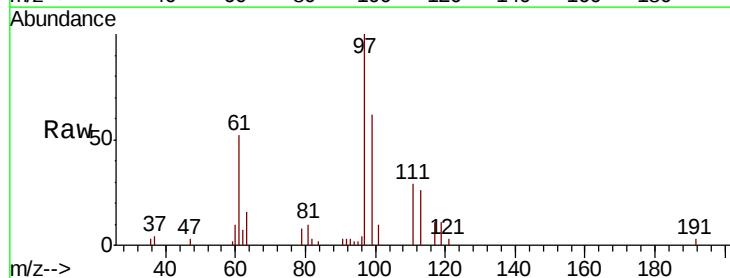
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

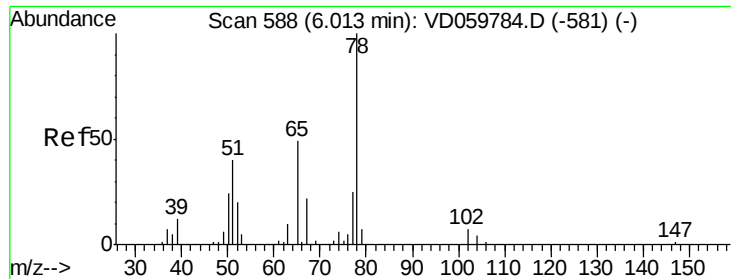
Tot Ion: 56 Resp: 40688
Ion Ratio Lower Upper
56 100
69 30.6 23.4 35.2
84 87.7 65.4 98.2



#32
1,1,1-Trichloroethane
Concen: 10.37 ug/l
RT: 5.51 min Scan# 538
Delta R.T. 0.01 min
Lab File: VD059792.D
Acq: 15 Aug 2018 5:33

Tgt Ion: 97 Resp: 54740
Ion Ratio Lower Upper
97 100
99 62.3 52.2 78.2
61 52.1 39.6 59.4

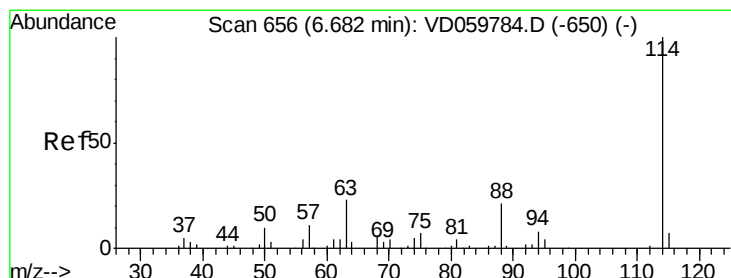
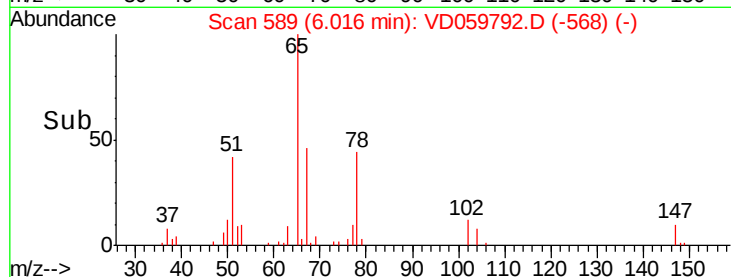
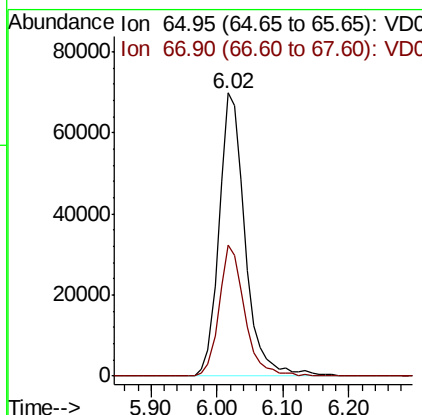
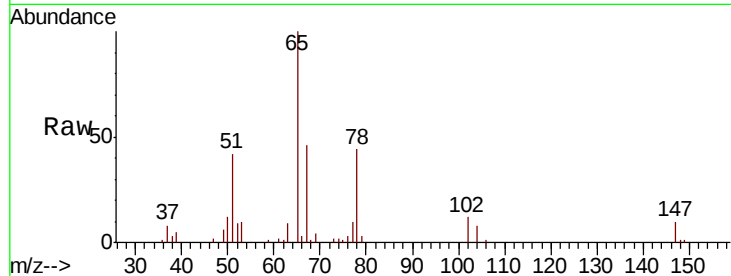




#33
 1,2-Dichloroethane-d4
 Concen: 10.37 ug/l
 RT: 6.02 min Scan# 589
 Delta R.T. 0.00 min
 Lab File: VD059792.D
 Acq: 15 Aug 2018 5:33

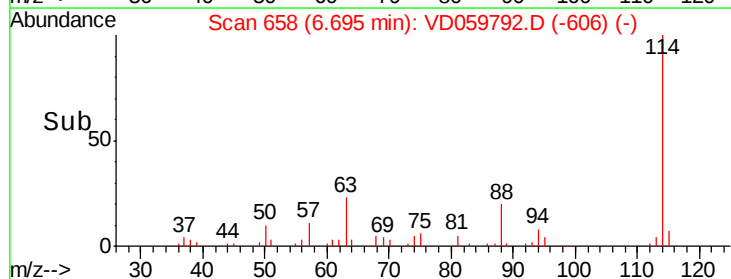
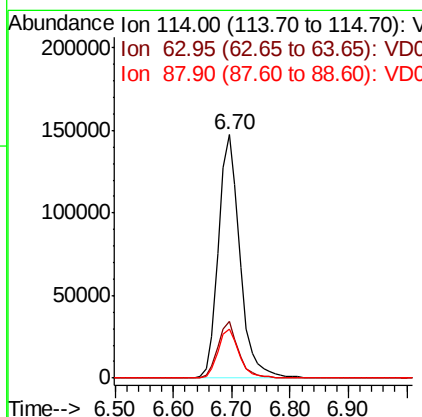
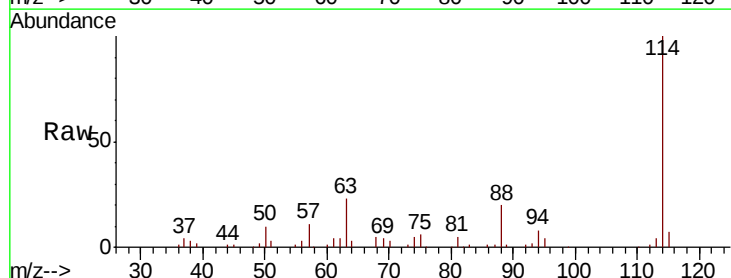
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

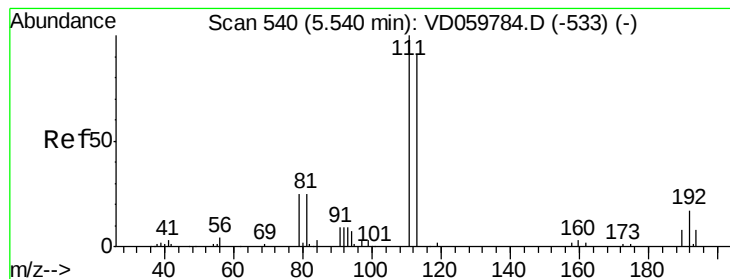
Tot Ion: 65 Resp: 192118
 Ion Ratio Lower Upper
 65 100
 67 46.1 0.0 87.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.70 min Scan# 658
 Delta R.T. 0.01 min
 Lab File: VD059792.D
 Acq: 15 Aug 2018 5:33

Tgt Ion: 114 Resp: 376708
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 45.0
 88 20.4 0.0 41.2





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 5.55 min Scan# 542

Delta R.T. 0.01 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

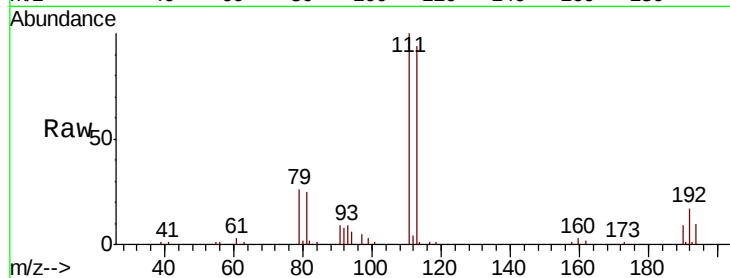
Tot Ion:113 Resp: 172054

Ion Ratio Lower Upper

113 100

111 106.2 87.7 131.5

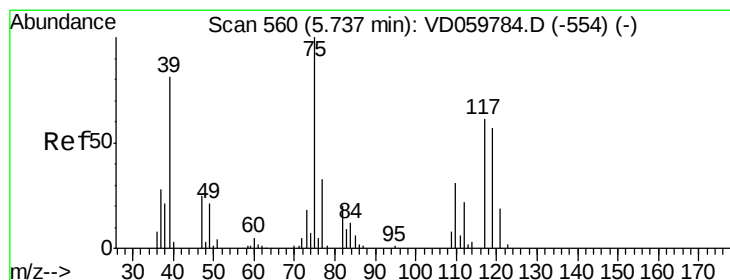
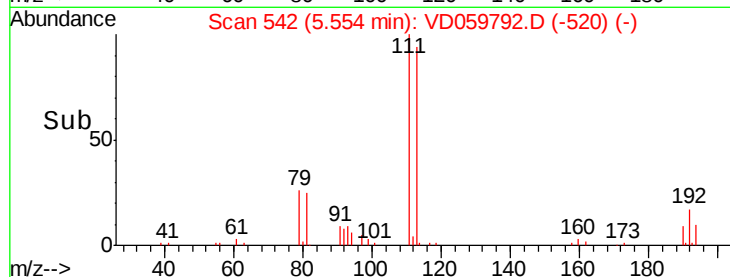
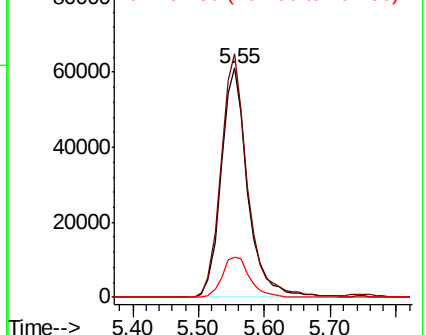
192 17.6 14.6 21.8



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: 10.43 ug/l

RT: 5.75 min Scan# 562

Delta R.T. 0.01 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

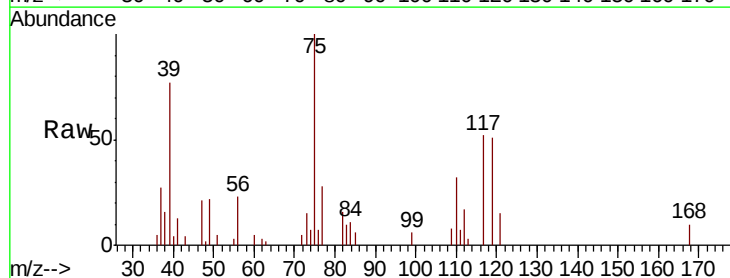
Tgt Ion: 75 Resp: 40302

Ion Ratio Lower Upper

75 100

110 32.2 15.3 45.8

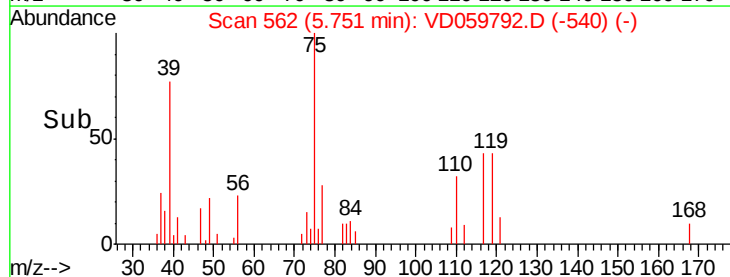
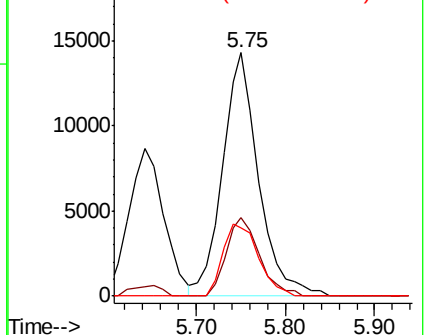
77 28.2 26.2 39.4

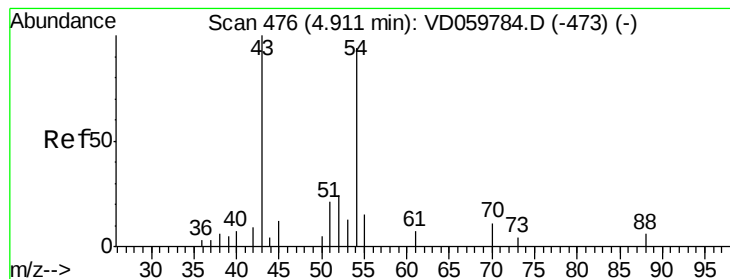


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#37

Ethyl Acetate

Concen: 12.07 ug/l

RT: 4.92 min Scan# 478

Delta R.T. 0.01 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

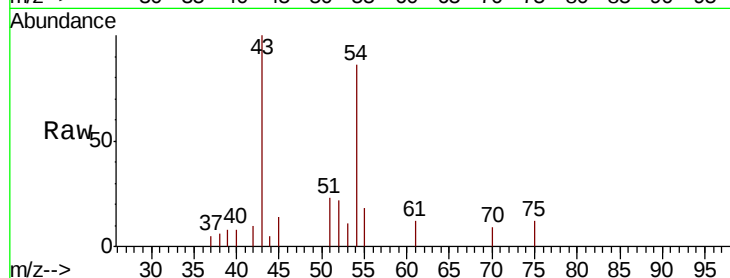
Tot Ion: 43 Resp: 23337

Ion Ratio Lower Upper

43 100

61 11.9 10.2 15.2

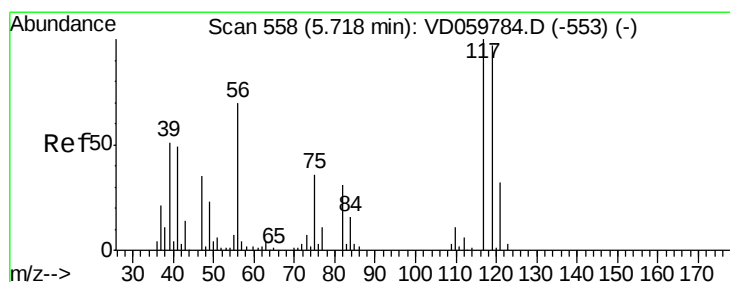
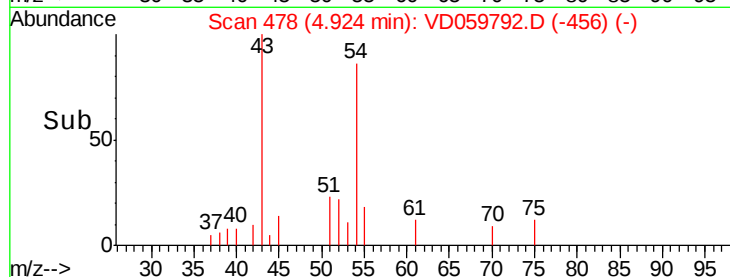
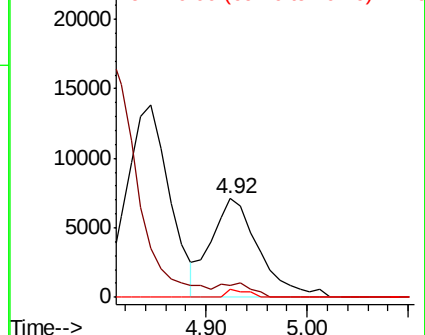
70 8.8 5.8 8.8#



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: 9.87 ug/l

RT: 5.73 min Scan# 560

Delta R.T. 0.01 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

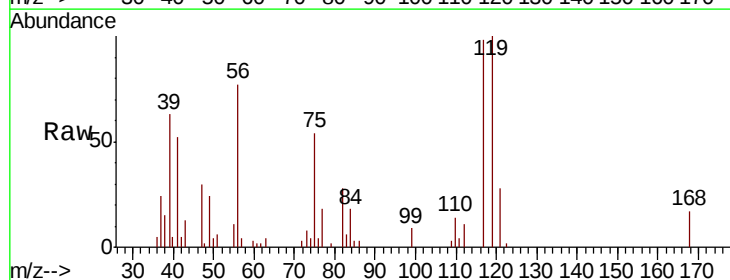
Tgt Ion: 117 Resp: 46030

Ion Ratio Lower Upper

117 100

119 101.8 75.7 113.5

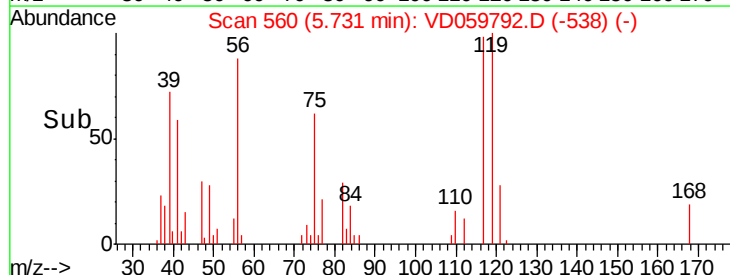
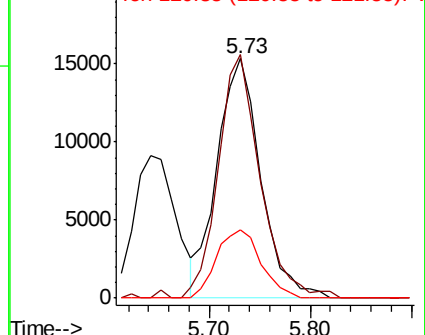
121 28.6 24.7 37.1

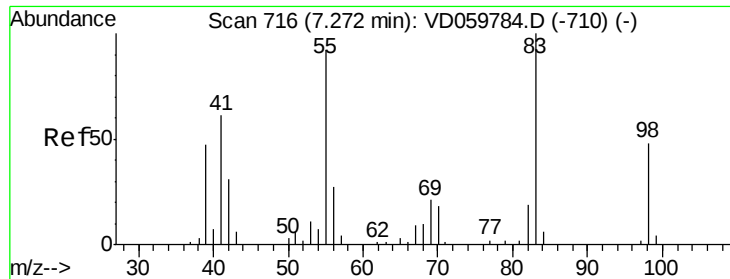


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

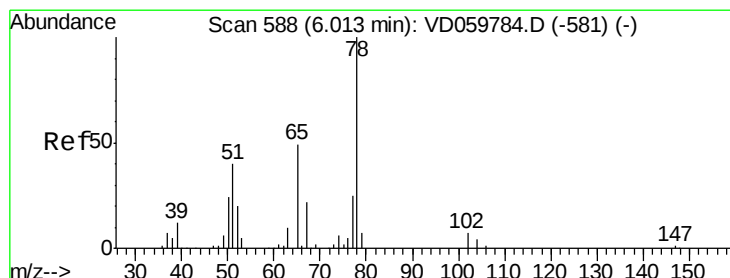
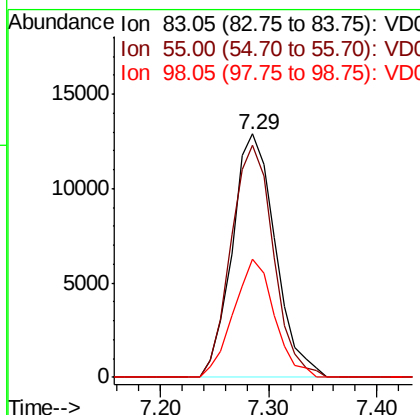
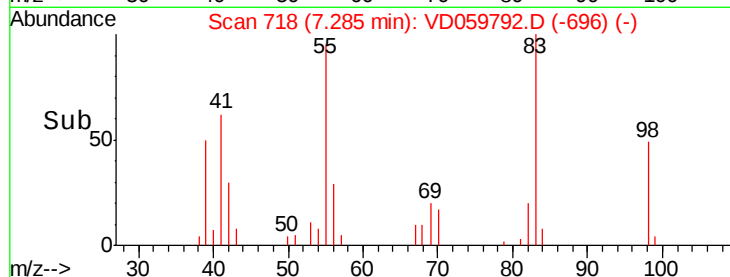
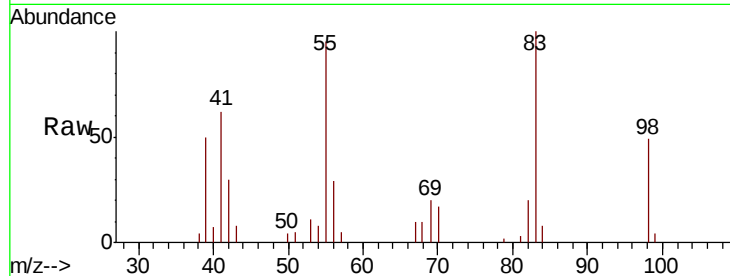




#39
Methvlcvclohexane
Concen: 10.70 ug/l
RT: 7.29 min Scan# 718
Delta R.T. 0.01 min
Lab File: VD059792.D
Acq: 15 Aug 2018 5:33

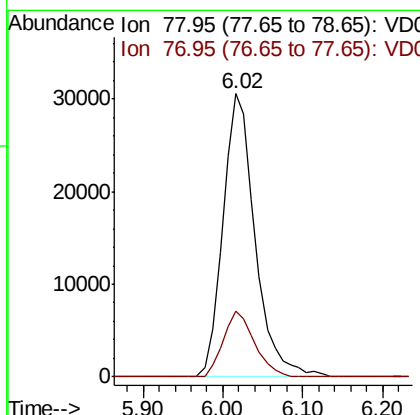
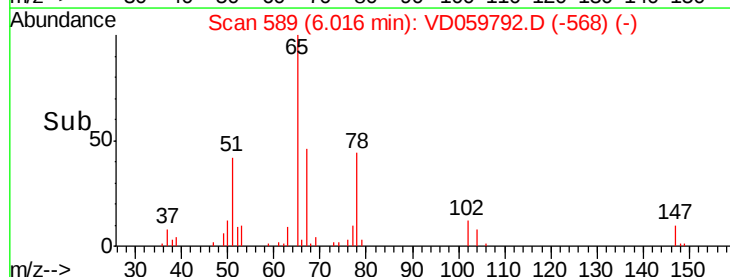
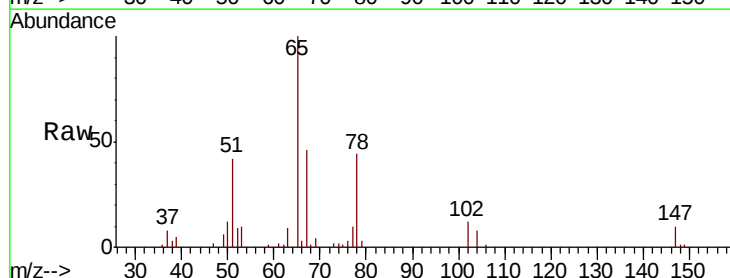
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

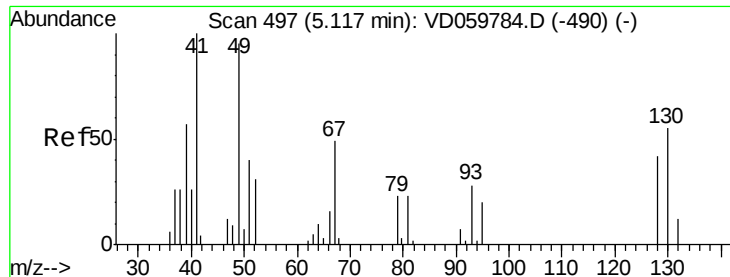
Tot Ion: 83 Resp: 35762
Ion Ratio Lower Upper
83 100
55 95.2 73.8 110.6
98 48.8 38.4 57.6



#40
Benzene
Concen: 10.52 ug/l
RT: 6.02 min Scan# 589
Delta R.T. 0.00 min
Lab File: VD059792.D
Acq: 15 Aug 2018 5:33

Tgt Ion: 78 Resp: 86242
Ion Ratio Lower Upper
78 100
77 23.1 19.6 29.4





#41

Methacrylonitrile

Concen: 11.42 ug/l

RT: 5.13 min Scan# 499

Delta R.T. 0.01 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion: 41 Resp: 10559

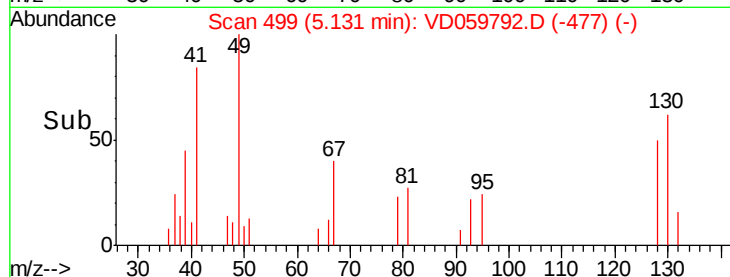
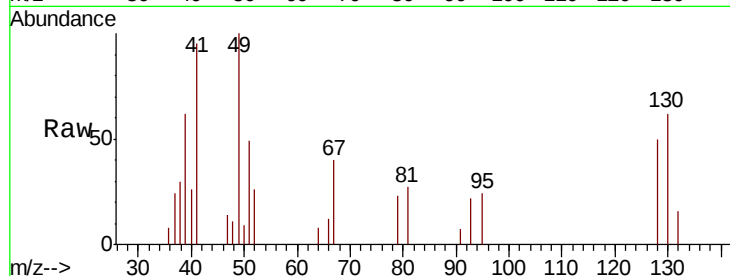
Ion Ratio Lower Upper

41 100

39 65.0 45.4 68.2

67 42.1 39.5 59.3

52 26.7 24.8 37.2

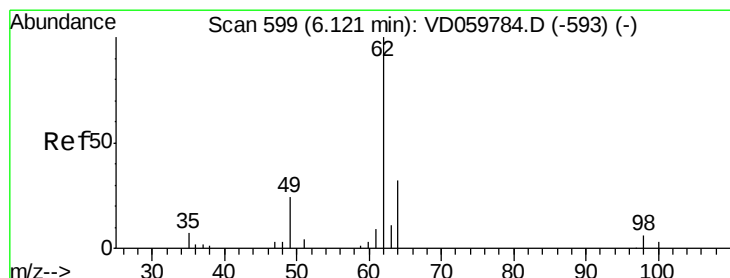
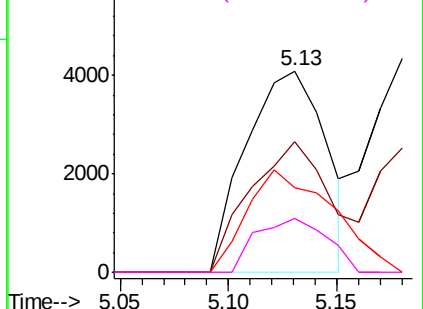


Abundance Ion 40.95 (40.65 to 41.65): VDC

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: 10.31 ug/l

RT: 6.13 min Scan# 601

Delta R.T. 0.01 min

Lab File: VD059792.D

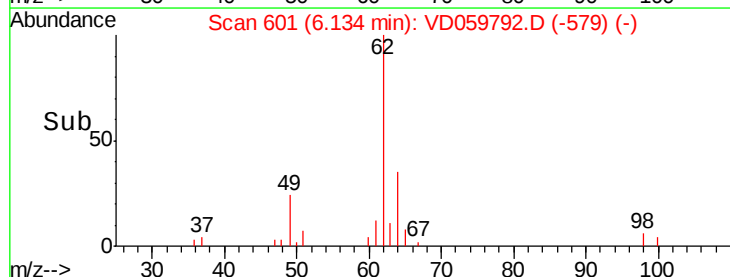
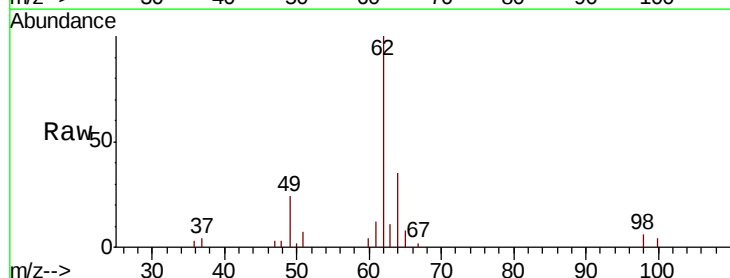
Acq: 15 Aug 2018 5:33

Tgt Ion: 62 Resp: 45735

Ion Ratio Lower Upper

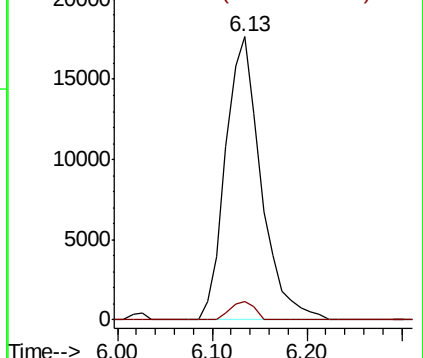
62 100

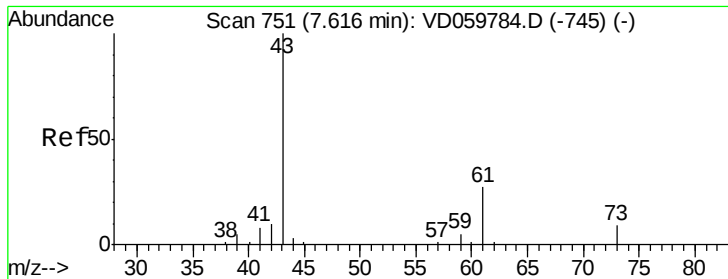
98 6.3 0.0 12.0



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



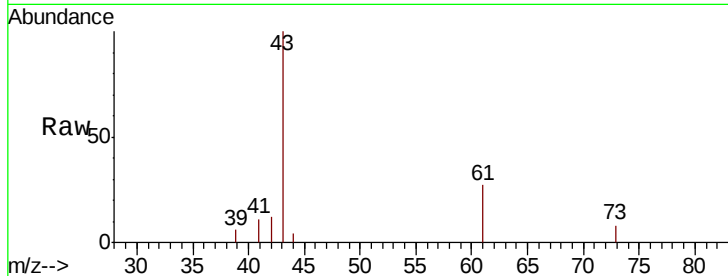


#43

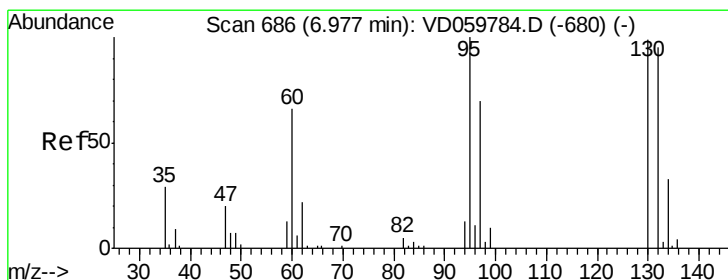
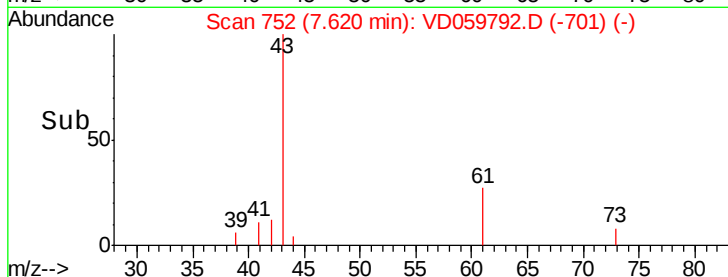
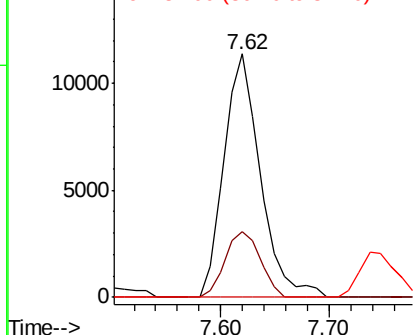
Isopropyl Acetate
 Concen: 10.89 ug/l
 RT: 7.62 min Scan# 752
 Delta R.T. 0.00 min
 Lab File: VD059792.D
 Acq: 15 Aug 2018 5:33

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

Tot Ion: 43 Resp: 26586
 Ion Ratio Lower Upper
 43 100
 61 27.2 21.2 31.8
 87 0.0 0.0 0.0



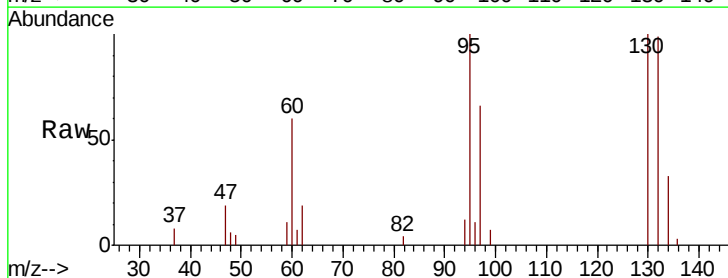
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



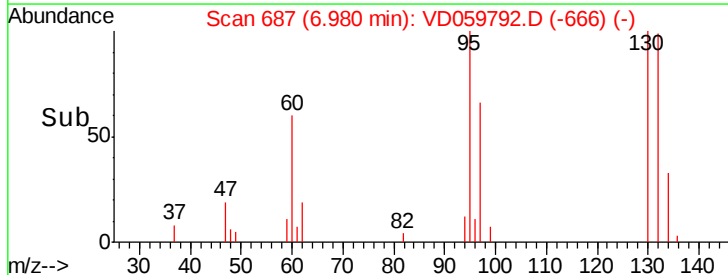
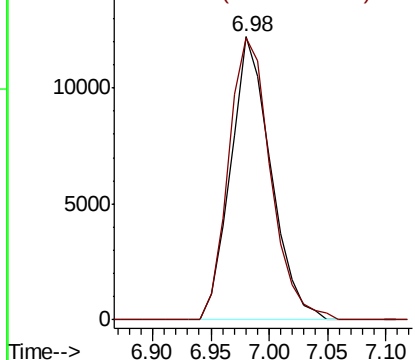
#44

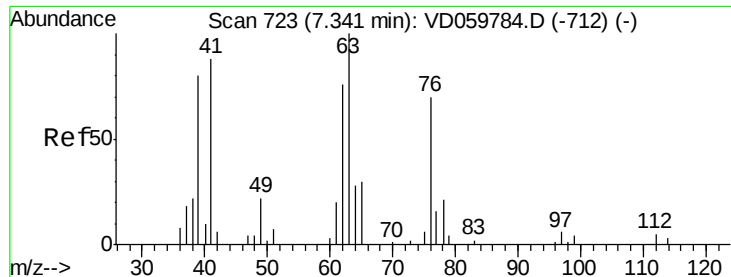
Trichloroethene
 Concen: 10.37 ug/l
 RT: 6.98 min Scan# 687
 Delta R.T. 0.00 min
 Lab File: VD059792.D
 Acq: 15 Aug 2018 5:33

Tgt Ion: 130 Resp: 29121
 Ion Ratio Lower Upper
 130 100
 95 99.8 0.0 201.2



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





#45

1,2-Dichloropropane

Concen: 11.18 ug/l

RT: 7.35 min Scan# 725

Delta R.T. 0.01 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Instrument :

MSVOA_D

ClientSampleId :

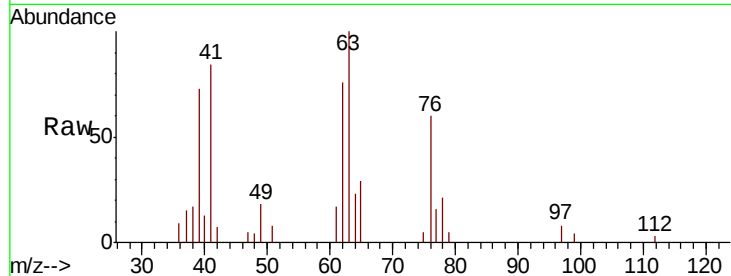
LOQ-SOIL-02-QT3-2018

Tot Ion: 63 Resp: 23819

Ion Ratio Lower Upper

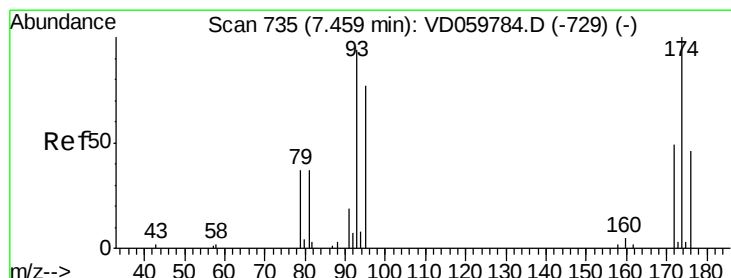
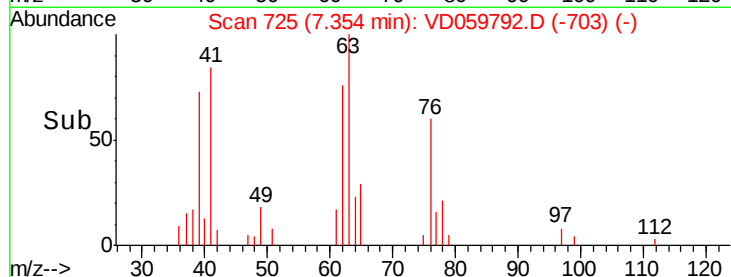
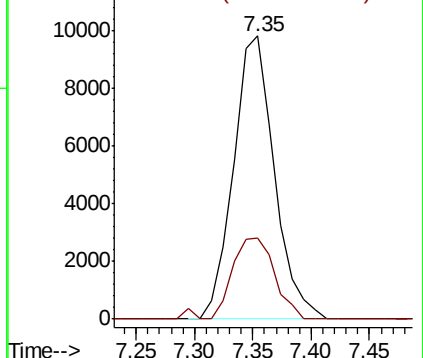
63 100

65 28.8 24.2 36.4



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 9.68 ug/l

RT: 7.46 min Scan# 736

Delta R.T. 0.00 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

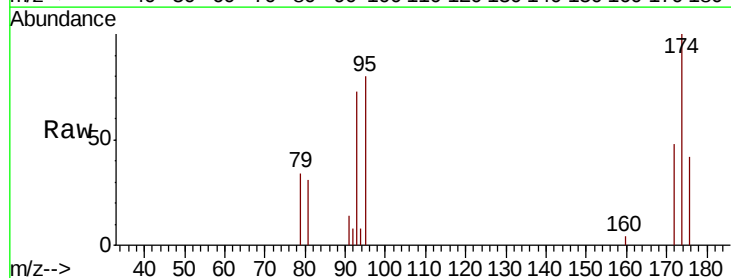
Tgt Ion: 93 Resp: 16875

Ion Ratio Lower Upper

93 100

95 109.7 66.2 99.4#

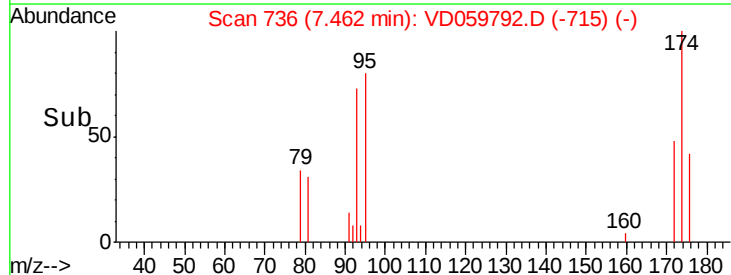
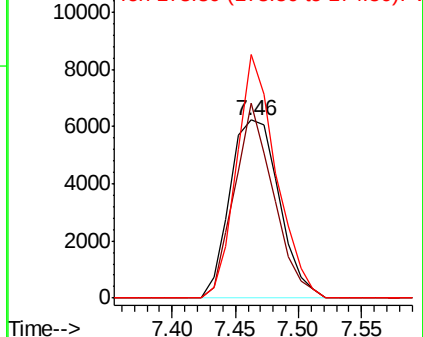
174 136.7 85.5 128.3#

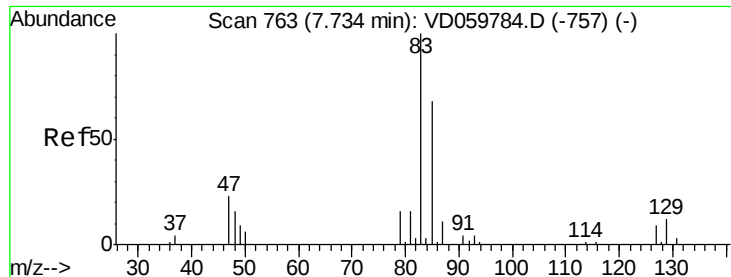


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 10.15 ug/l

RT: 7.75 min Scan# 765

Delta R.T. 0.01 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

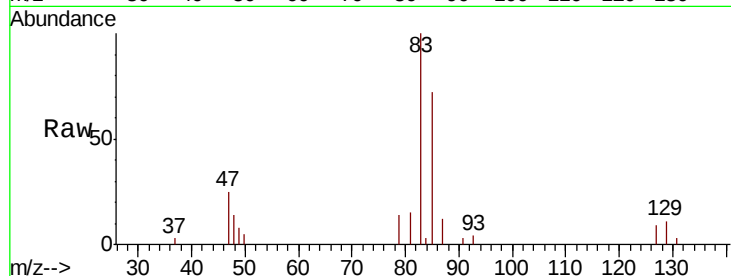
Tot Ion: 83 Resp: 43361

Ion Ratio Lower Upper

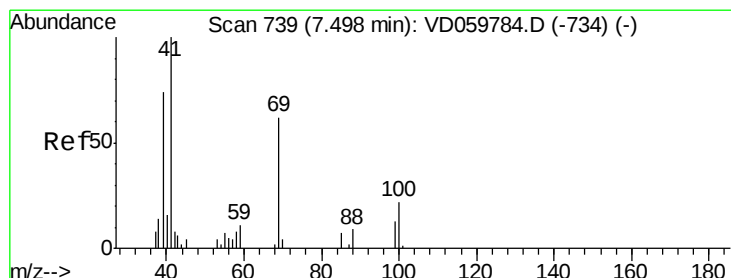
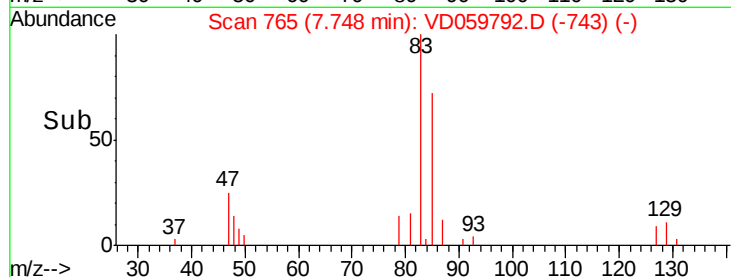
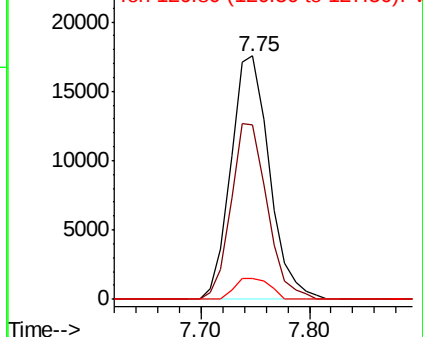
83 100

85 71.5 54.1 81.1

127 8.7 7.5 11.3



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: 11.41 ug/l

RT: 7.50 min Scan# 740

Delta R.T. 0.00 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

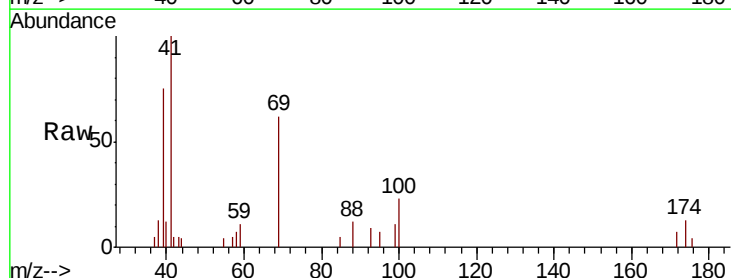
Tgt Ion: 41 Resp: 18169

Ion Ratio Lower Upper

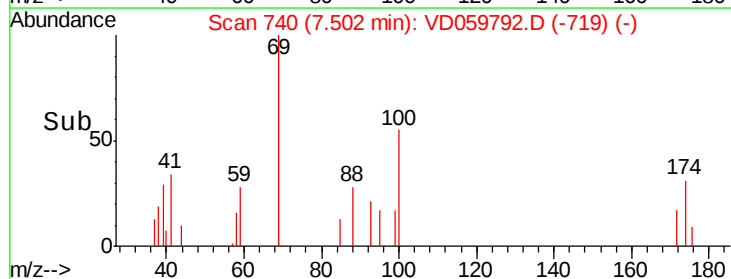
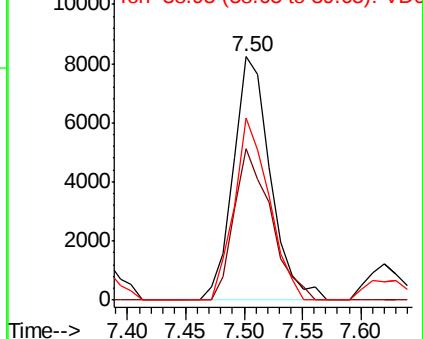
41 100

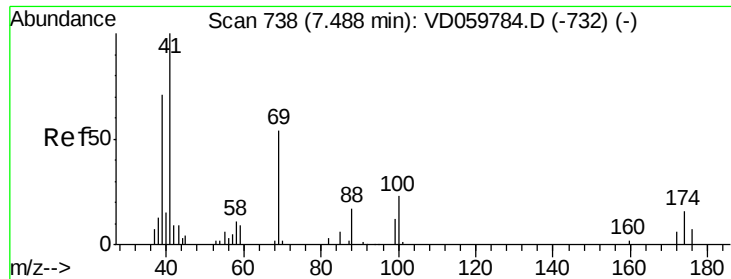
69 62.4 49.8 74.8

39 74.6 59.0 88.4



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

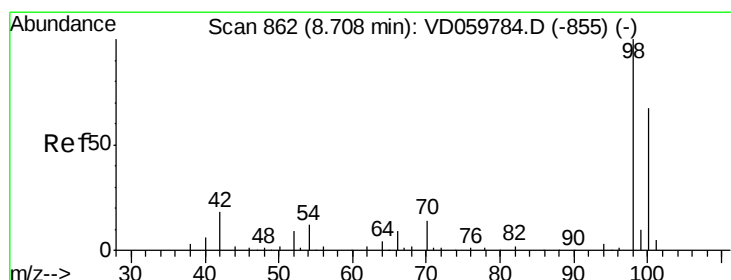
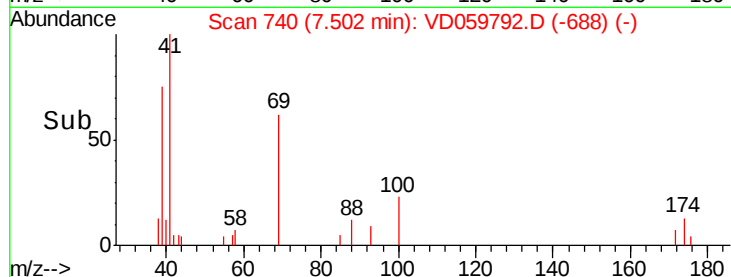
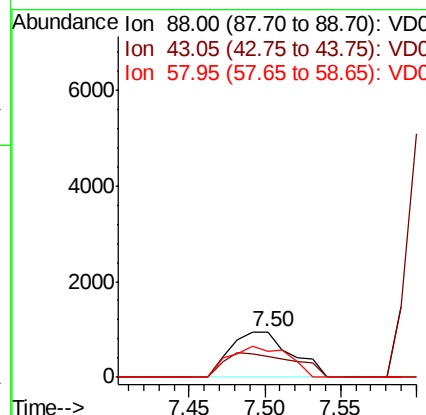
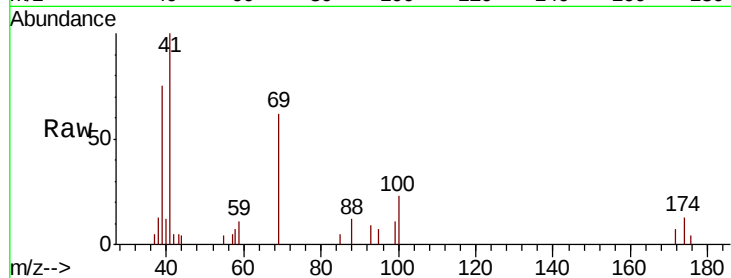




#49
1,4-Dioxane
Concen: 189.34 ug/l
RT: 7.50 min Scan# 740
Delta R.T. 0.01 min
Lab File: VD059792.D
Acq: 15 Aug 2018 5:33

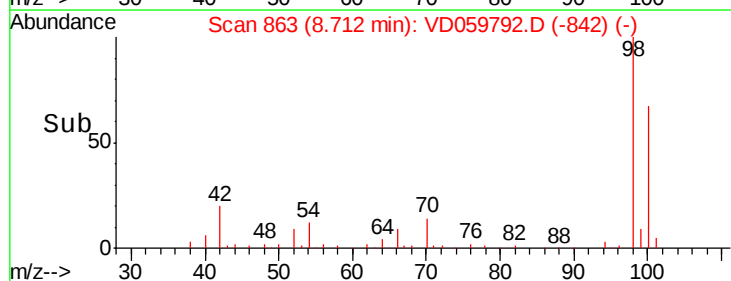
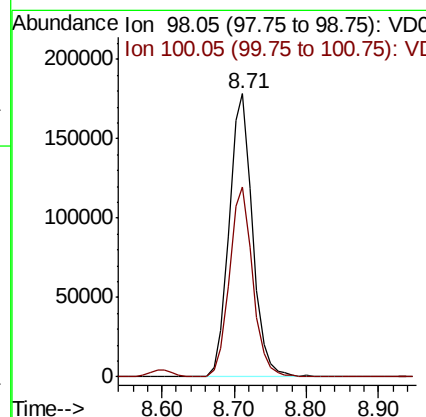
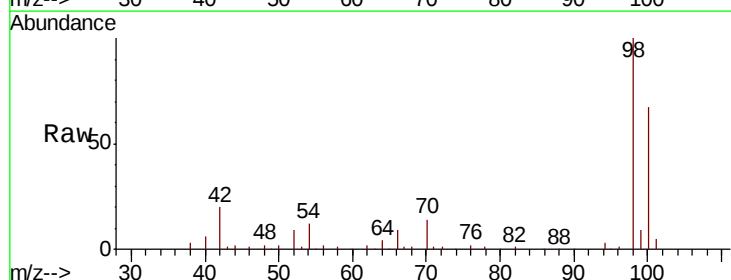
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

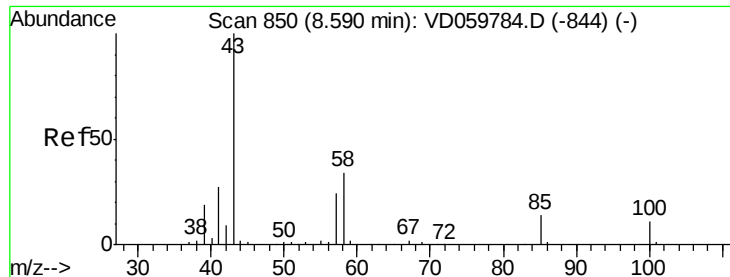
Tot Ion: 88 Resp: 2656
Ion Ratio Lower Upper
88 100
43 44.8 42.0 63.0
58 57.5 51.4 77.0



#50
Toluene-d8
Concen: 189.34 ug/l
RT: 8.71 min Scan# 863
Delta R.T. 0.00 min
Lab File: VD059792.D
Acq: 15 Aug 2018 5:33

Tgt Ion: 98 Resp: 399435
Ion Ratio Lower Upper
98 100
100 67.3 54.2 81.4





#51

4-Methyl-2-Pentanone

Concen: 49.95 ug/l

RT: 8.59 min Scan# 851

Delta R.T. 0.00 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Instrument :

MSVOA_D

ClientSampleId :

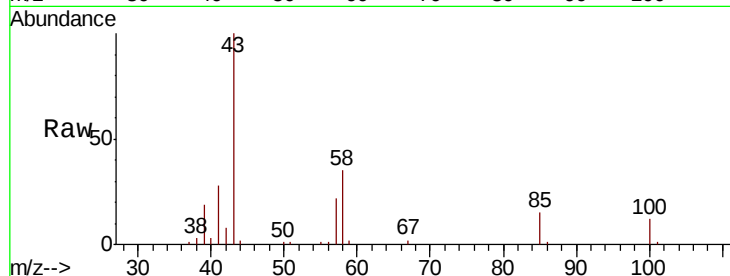
LOQ-SOIL-02-QT3-2018

Tot Ion: 43 Resp: 92160

Ion Ratio Lower Upper

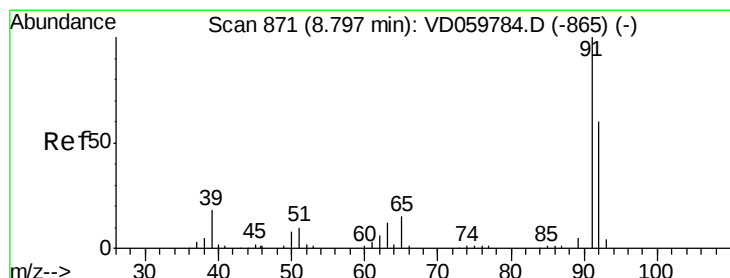
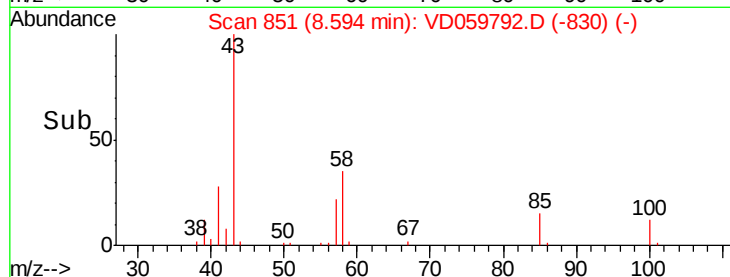
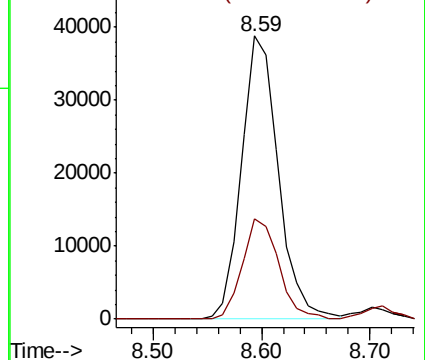
43 100

58 35.5 27.5 41.3



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 10.28 ug/l

RT: 8.80 min Scan# 872

Delta R.T. 0.00 min

Lab File: VD059792.D

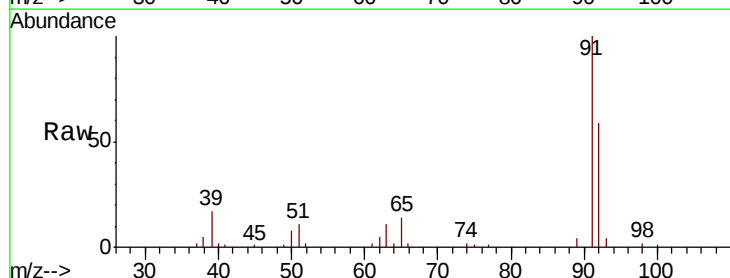
Acq: 15 Aug 2018 5:33

Tgt Ion: 92 Resp: 53984

Ion Ratio Lower Upper

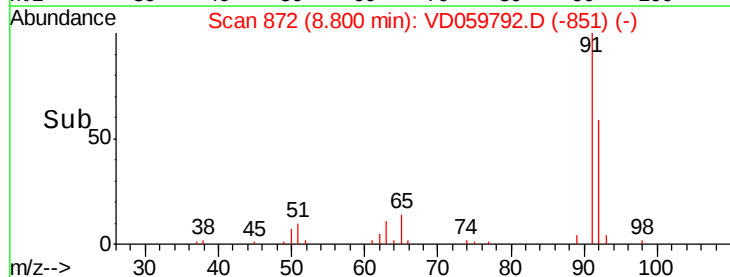
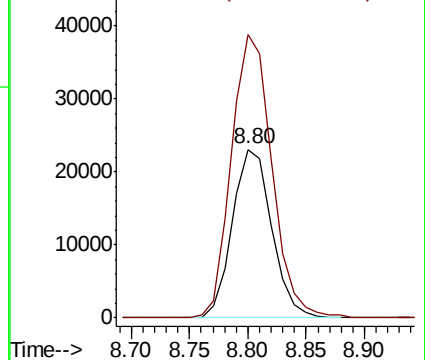
92 100

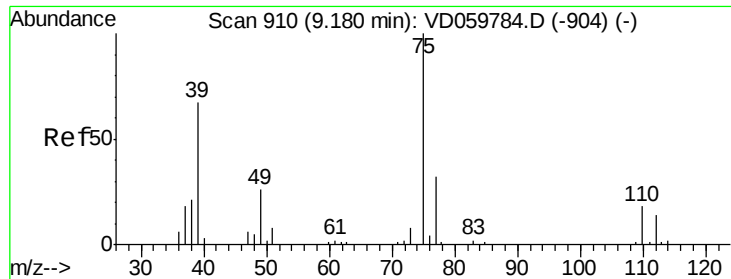
91 168.3 133.1 199.7



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

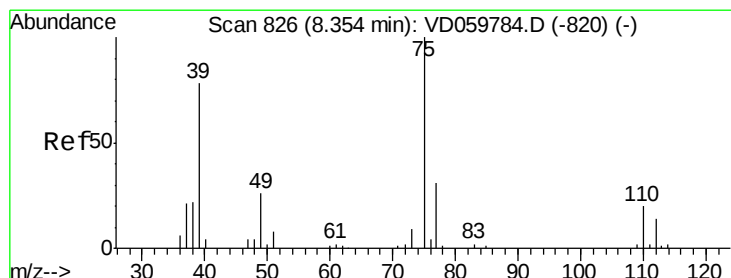
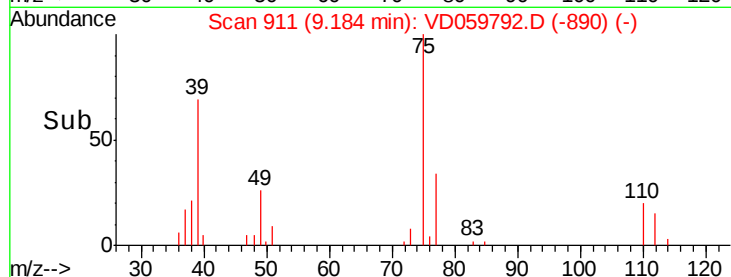
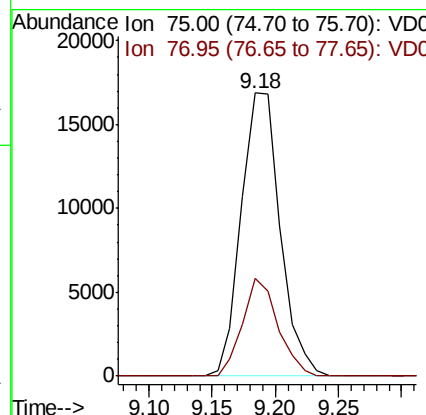
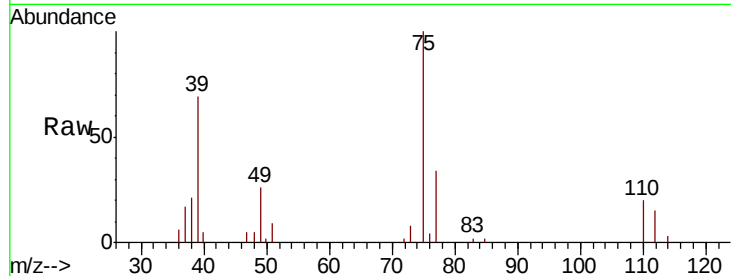




#53
 t-1,3-Dichloropropene
 Concen: 10.23 ug/l
 RT: 9.18 min Scan# 911
 Delta R.T. 0.00 min
 Lab File: VD059792.D
 Acq: 15 Aug 2018 5:33

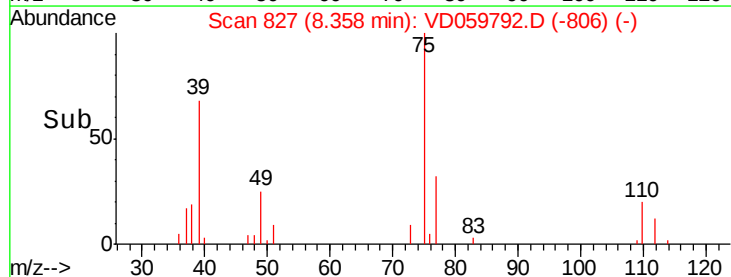
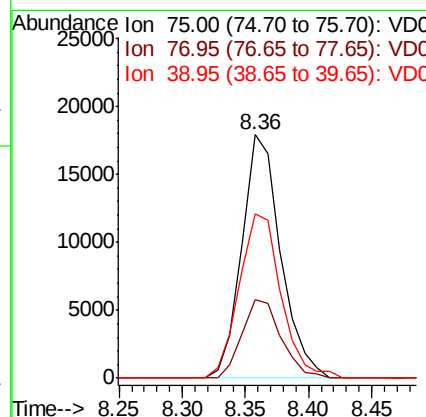
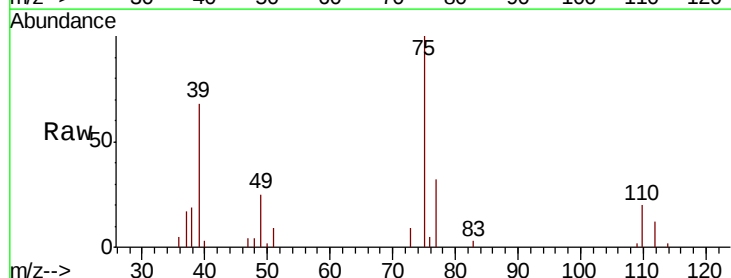
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

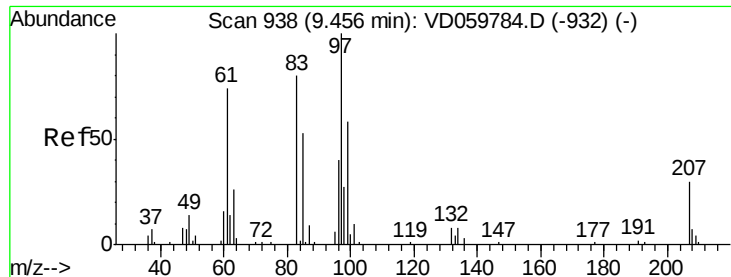
Tot Ion: 75 Resp: 36230
 Ion Ratio Lower Upper
 75 100
 77 34.4 25.4 38.2



#54
 cis-1,3-Dichloropropene
 Concen: 9.95 ug/l
 RT: 8.36 min Scan# 827
 Delta R.T. 0.00 min
 Lab File: VD059792.D
 Acq: 15 Aug 2018 5:33

Tgt Ion: 75 Resp: 38063
 Ion Ratio Lower Upper
 75 100
 77 32.0 24.8 37.2
 39 67.6 62.5 93.7





#55

1,1,2-Trichloroethane

Concen: 10.91 ug/l

RT: 9.45 min Scan# 938

Delta R.T. -0.01 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion: 97 Resp: 21155

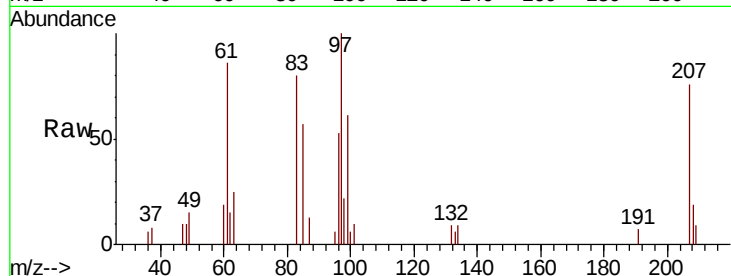
Ion Ratio Lower Upper

97 100

83 79.6 63.8 95.8

85 56.7 42.5 63.7

99 61.2 46.2 69.4

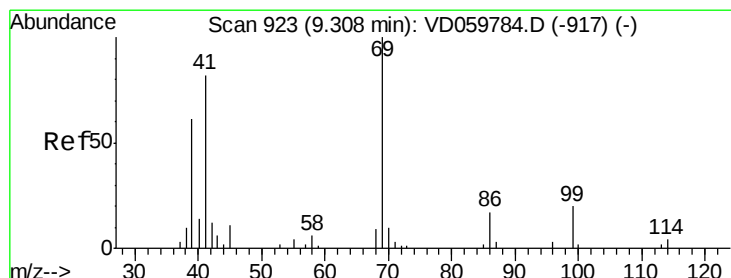
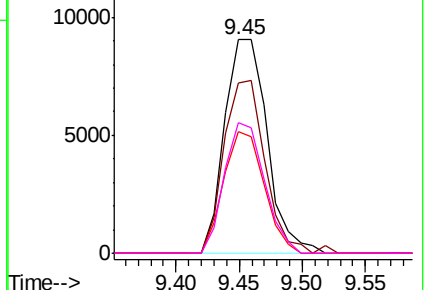
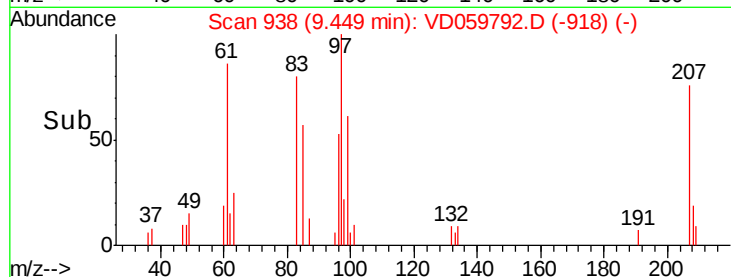


Abundance Ion 96.85 (96.55 to 97.55): VDC

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: 10.45 ug/l

RT: 9.31 min Scan# 924

Delta R.T. 0.00 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

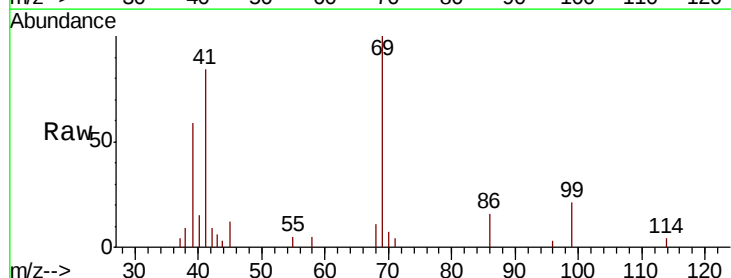
Tgt Ion: 69 Resp: 21944

Ion Ratio Lower Upper

69 100

41 84.0 65.8 98.8

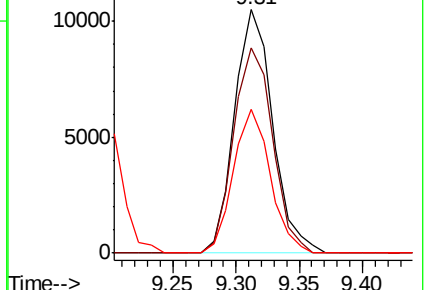
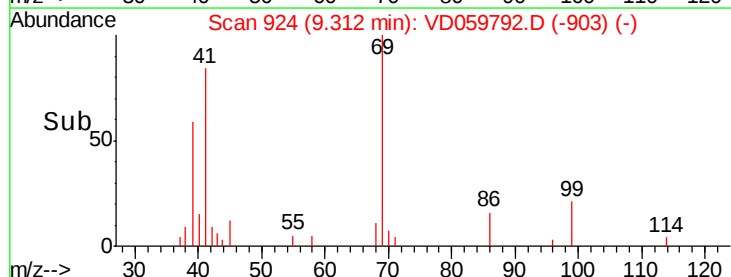
39 59.0 49.7 74.5

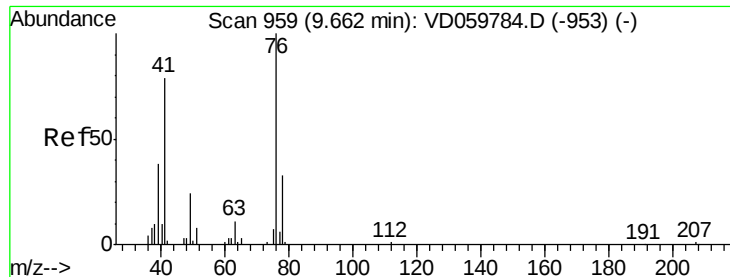


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 10.71 ug/l

RT: 9.67 min Scan# 960

Delta R.T. 0.00 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Instrument :

MSVOA_D

ClientSampleId :

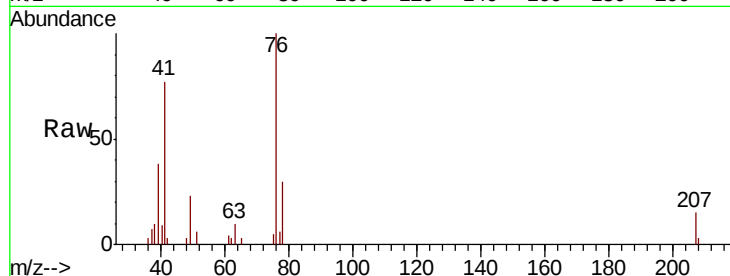
LOQ-SOIL-02-QT3-2018

Tot Ion: 76 Resp: 32528

Ion Ratio Lower Upper

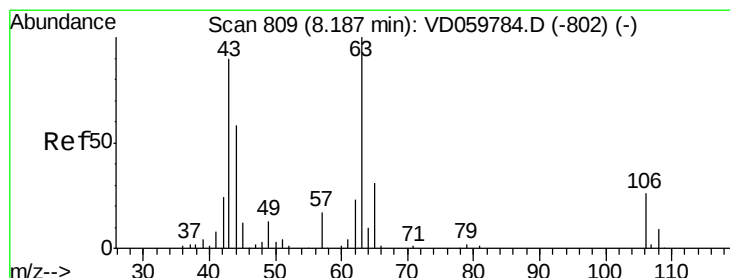
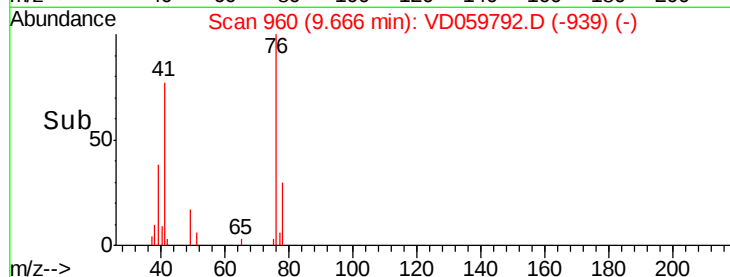
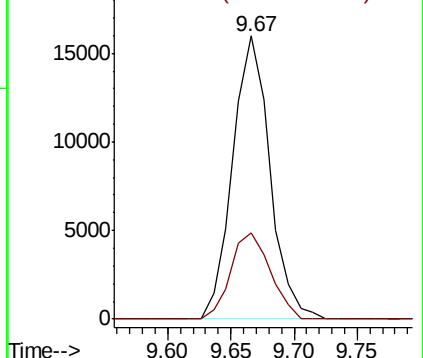
76 100

78 30.4 26.4 39.6



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 56.47 ug/l

RT: 8.19 min Scan# 810

Delta R.T. 0.00 min

Lab File: VD059792.D

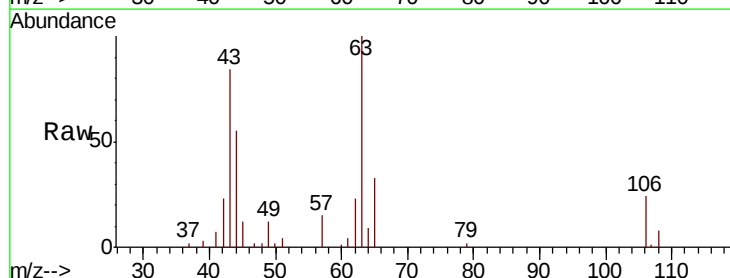
Acq: 15 Aug 2018 5:33

Tgt Ion: 63 Resp: 58608

Ion Ratio Lower Upper

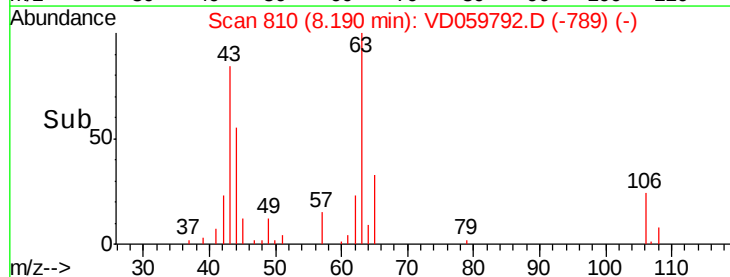
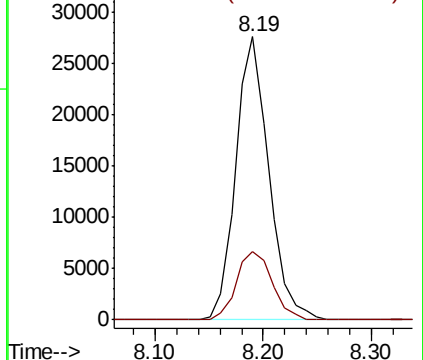
63 100

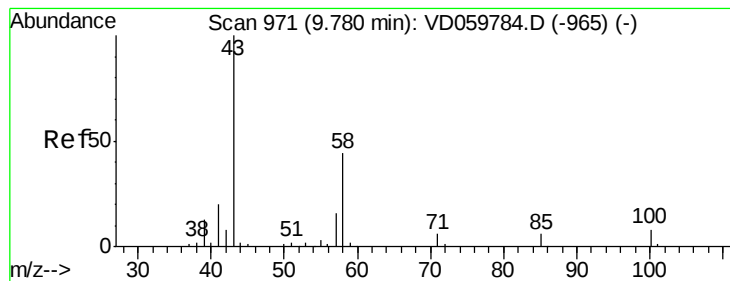
106 24.1 21.1 31.7



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): VDC





#59

2-Hexanone

Concen: 50.51 ug/l

RT: 9.78 min Scan# 972

Delta R.T. 0.00 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Instrument :

MSVOA_D

ClientSampleId :

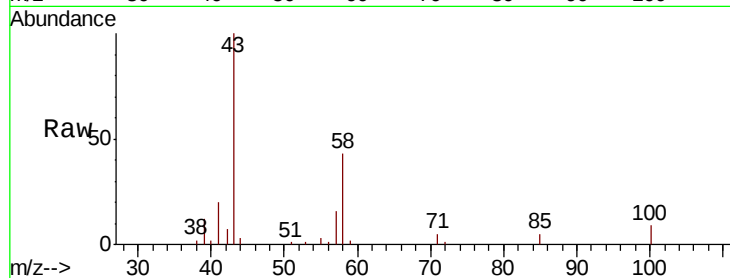
LOQ-SOIL-02-QT3-2018

Tot Ion: 43 Resp: 66835

Ion Ratio Lower Upper

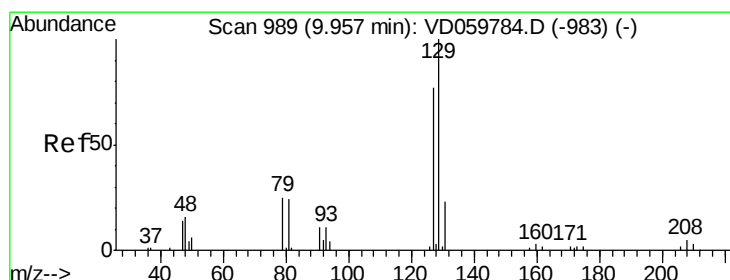
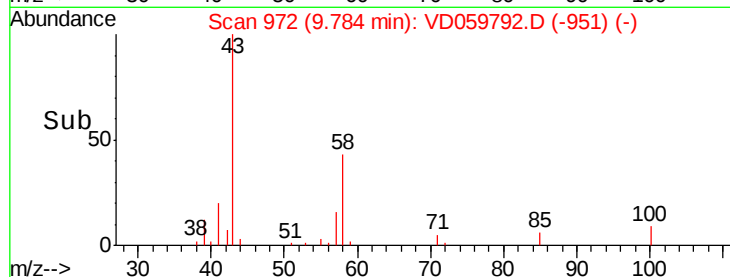
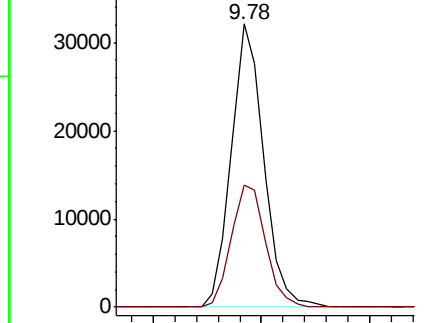
43 100

58 43.0 22.3 66.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#60

Dibromochloromethane

Concen: 10.92 ug/l

RT: 9.96 min Scan# 990

Delta R.T. 0.00 min

Lab File: VD059792.D

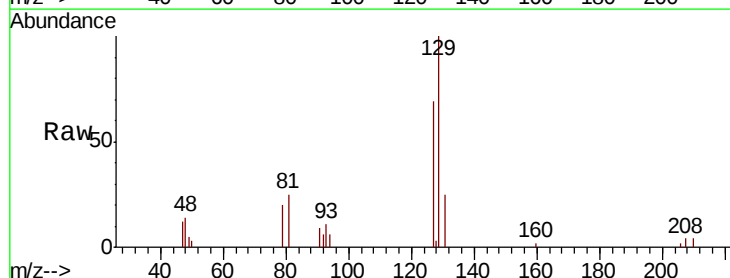
Acq: 15 Aug 2018 5:33

Tgt Ion:129 Resp: 30738

Ion Ratio Lower Upper

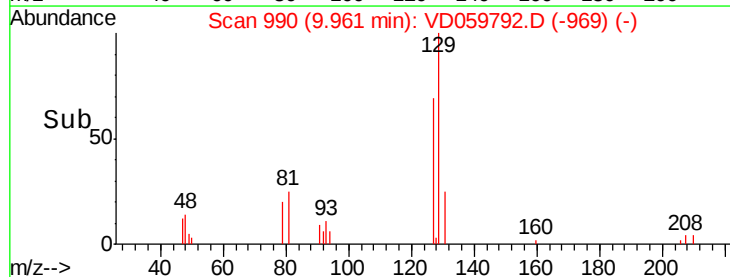
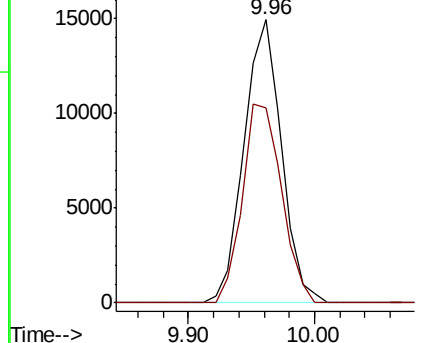
129 100

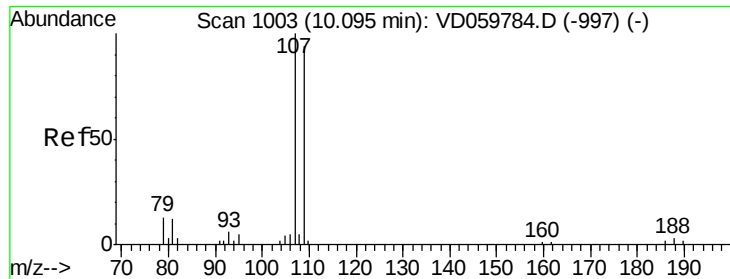
127 69.1 38.4 115.1



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#61

1,2-Dibromoethane

Concen: 10.99 ug/l

RT: 10.09 min Scan# 1003

Delta R.T. -0.01 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Instrument :

MSVOA_D

ClientSampleId :

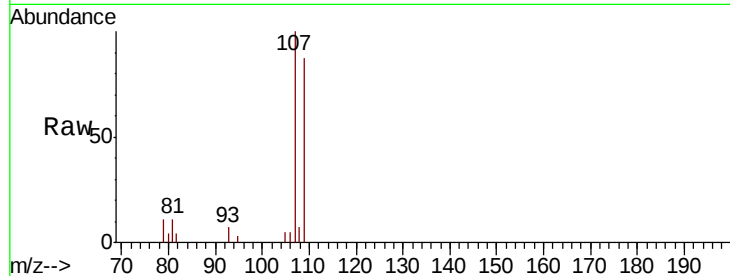
LOQ-SOIL-02-QT3-2018

Tot Ion:107 Resp: 23611

Ion Ratio Lower Upper

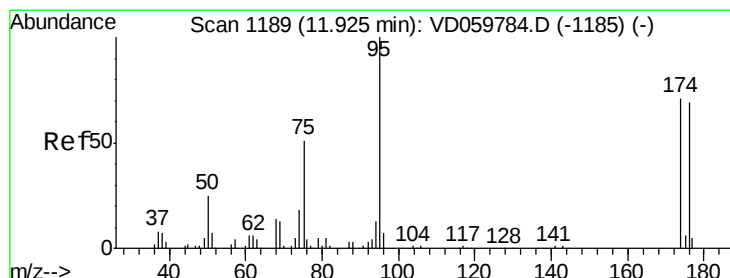
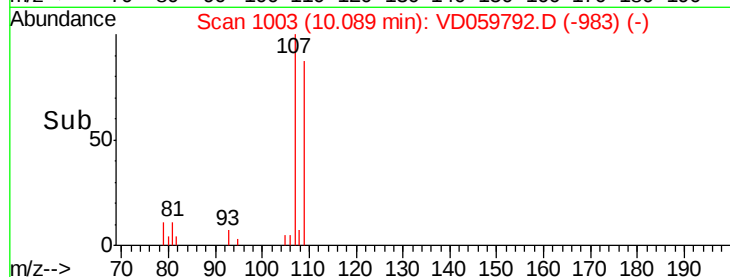
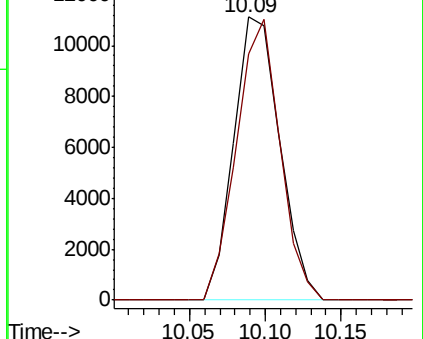
107 100

109 87.2 75.2 112.8



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 10.99 ug/l

RT: 11.93 min Scan# 1190

Delta R.T. 0.00 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

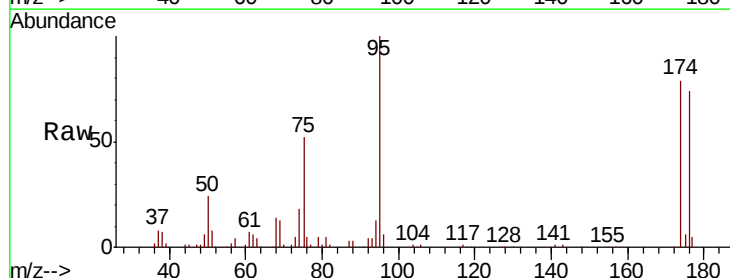
Tgt Ion: 95 Resp: 175490

Ion Ratio Lower Upper

95 100

174 78.9 0.0 142.2

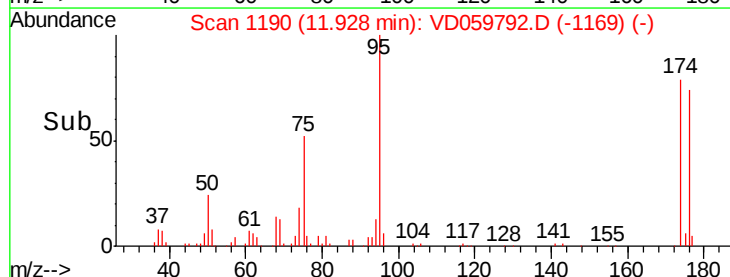
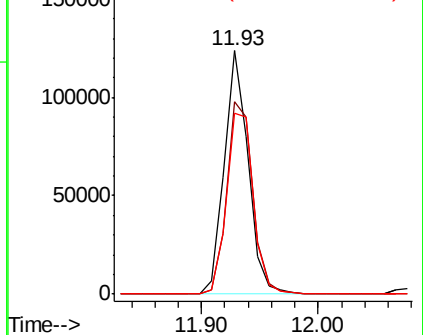
176 74.2 0.0 137.4

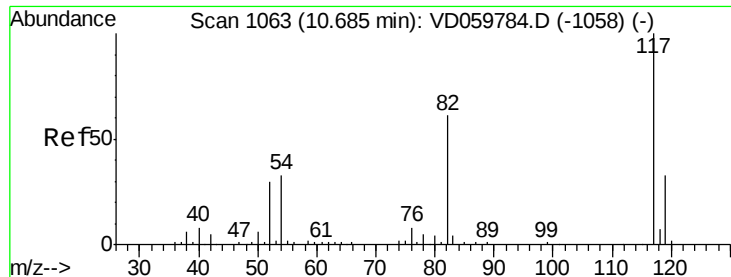


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

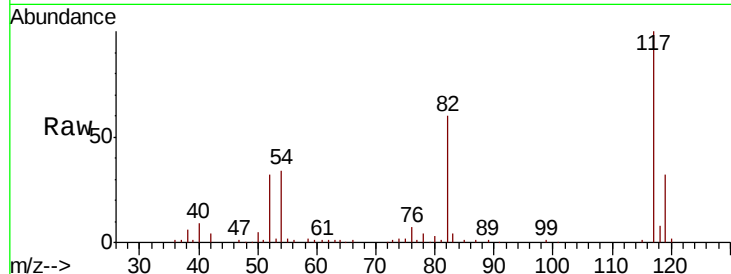




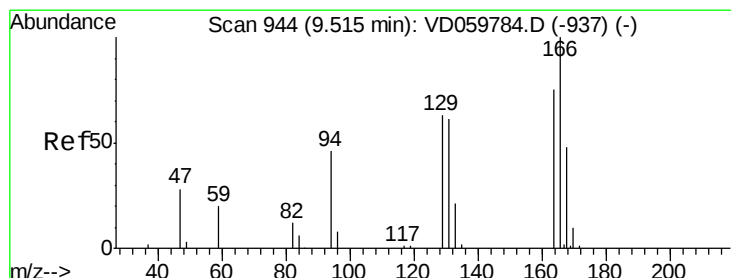
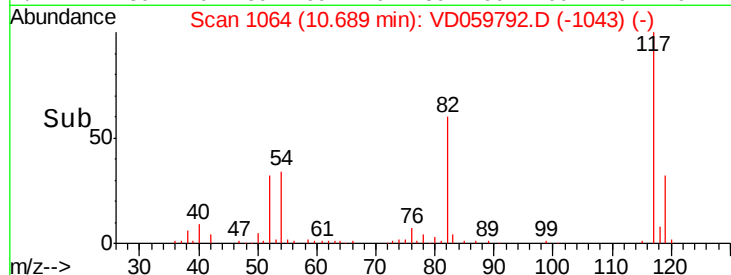
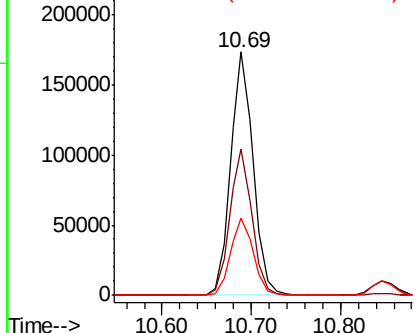
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.69 min Scan# 1064
Delta R.T. 0.00 min
Lab File: VD059792.D
Acq: 15 Aug 2018 5:33

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

Tot Ion:117 Resp: 308753
Ion Ratio Lower Upper
117 100
82 60.2 49.0 73.6
119 31.6 26.2 39.2



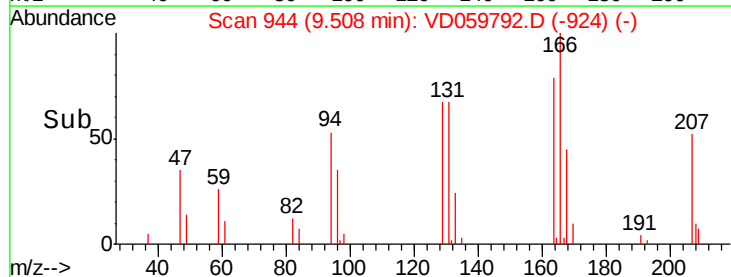
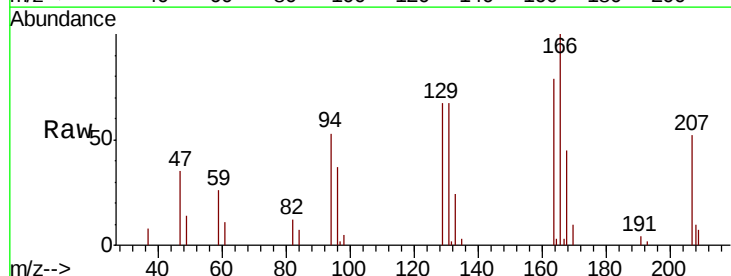
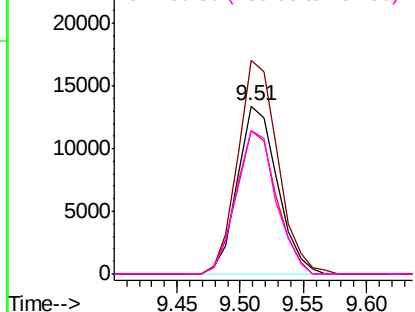
Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

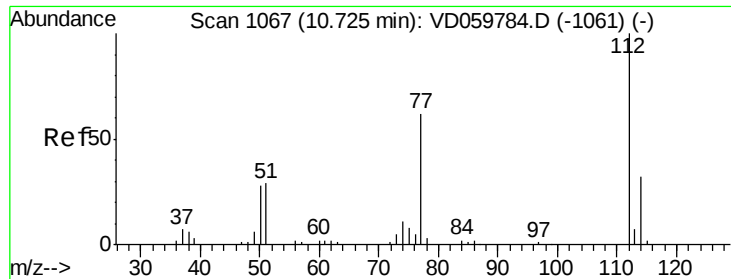


#64
Tetrachloroethene
Concen: 11.08 ug/l
RT: 9.51 min Scan# 944
Delta R.T. -0.01 min
Lab File: VD059792.D
Acq: 15 Aug 2018 5:33

Tgt Ion:164 Resp: 29472
Ion Ratio Lower Upper
164 100
166 127.3 106.8 160.2
129 85.6 67.2 100.8
131 85.3 64.7 97.1

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

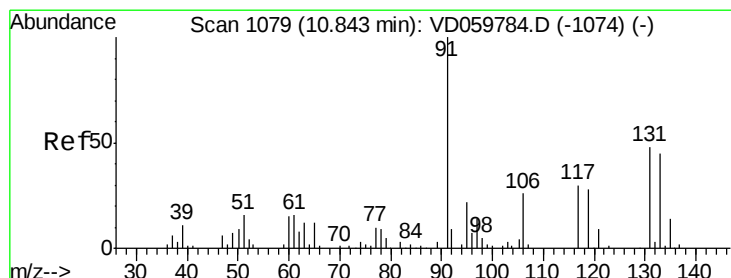
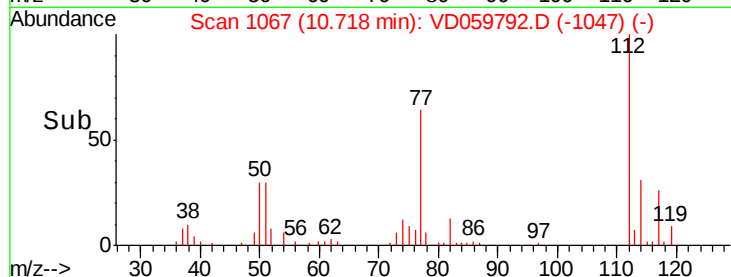
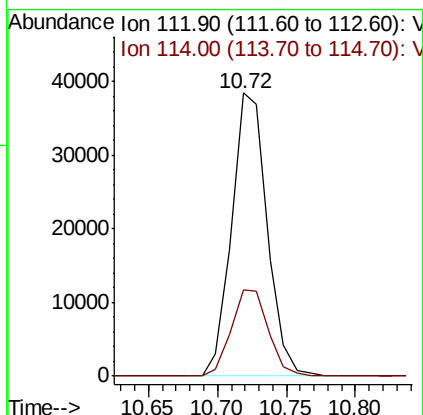
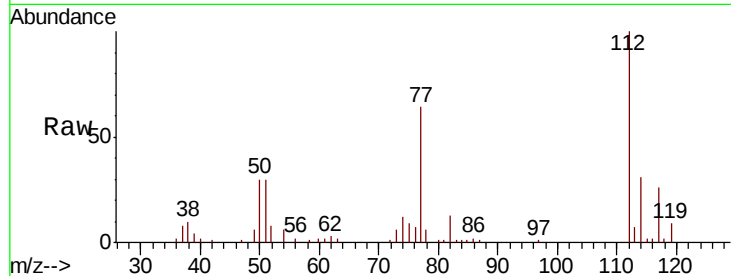




#65
Chlorobenzene
Concen: 11.01 ug/l
RT: 10.72 min Scan# 1067
Delta R.T. -0.01 min
Lab File: VD059792.D
Acq: 15 Aug 2018 5:33

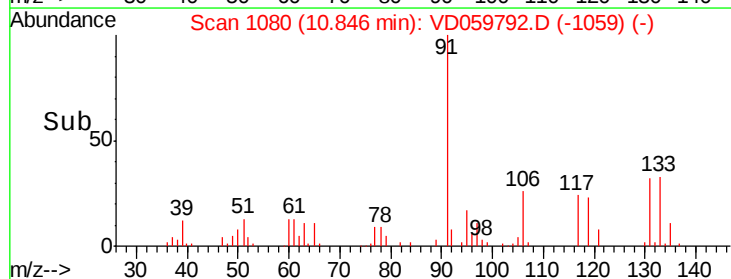
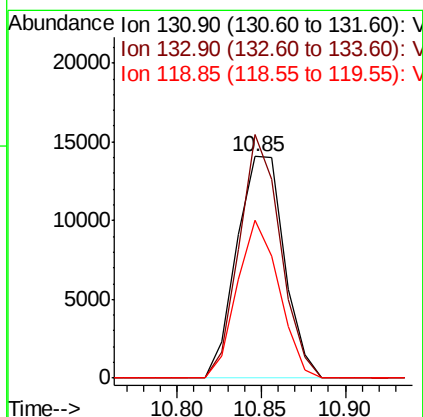
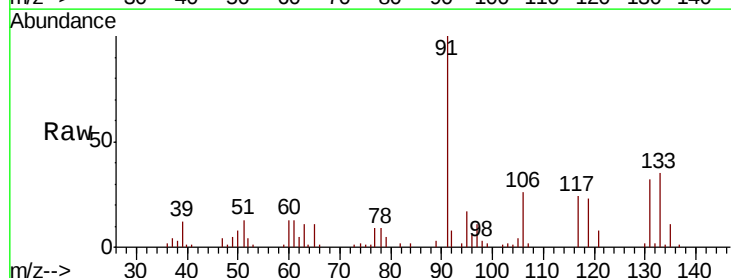
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

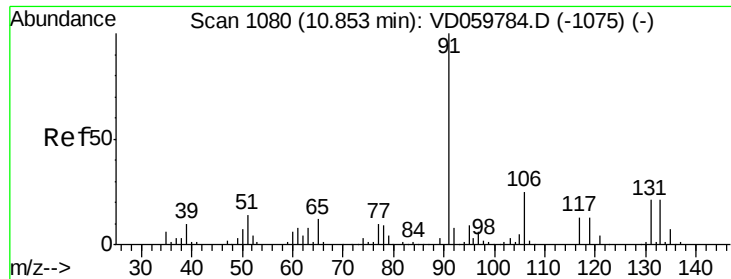
Tot Ion:112 Resp: 68845
Ion Ratio Lower Upper
112 100
114 30.6 25.8 38.6



#66
1,1,1,2-Tetrachloroethane
Concen: 10.92 ug/l
RT: 10.85 min Scan# 1080
Delta R.T. 0.00 min
Lab File: VD059792.D
Acq: 15 Aug 2018 5:33

Tgt Ion:131 Resp: 27516
Ion Ratio Lower Upper
131 100
133 109.9 47.0 141.0
119 71.3 29.0 87.1

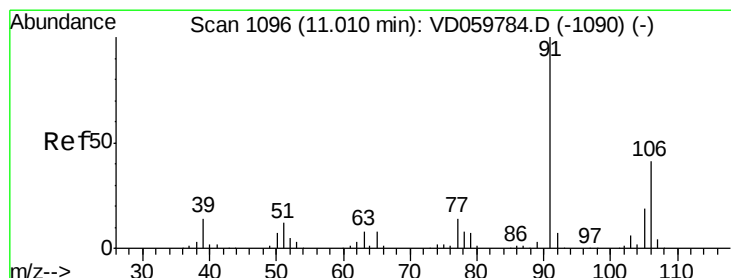
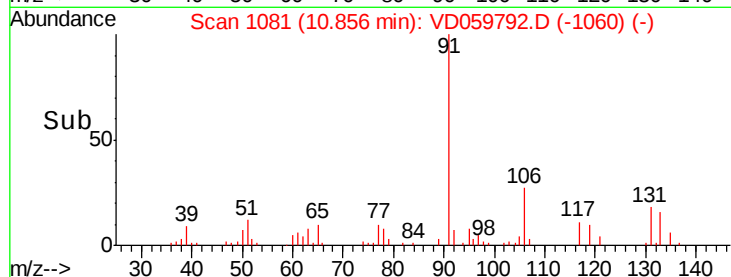
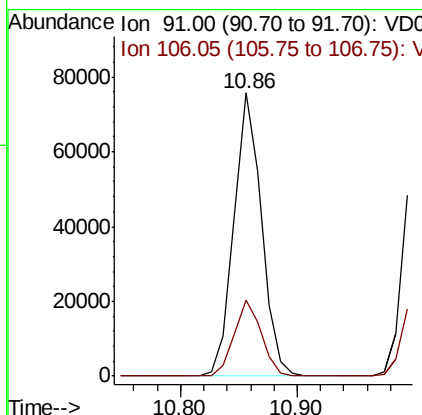
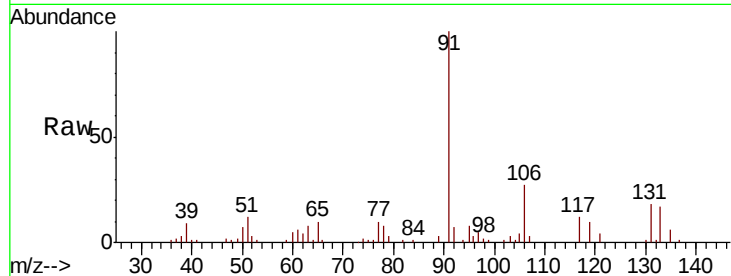




#67
Ethyl Benzene
Concen: 11.54 ug/l
RT: 10.86 min Scan# 1081
Delta R.T. 0.00 min
Lab File: VD059792.D
Acq: 15 Aug 2018 5:33

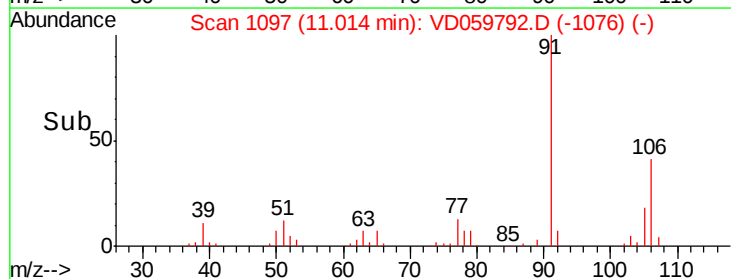
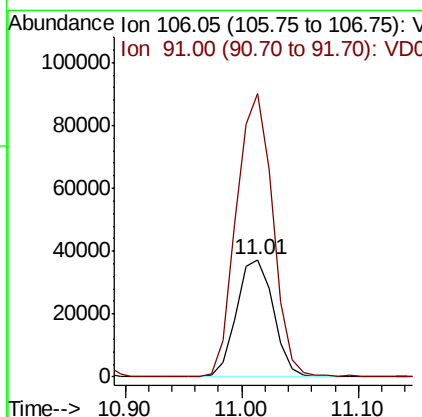
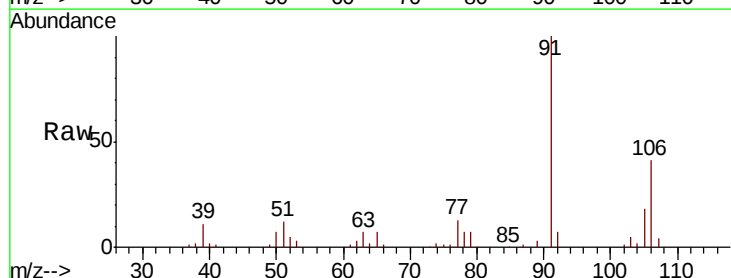
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

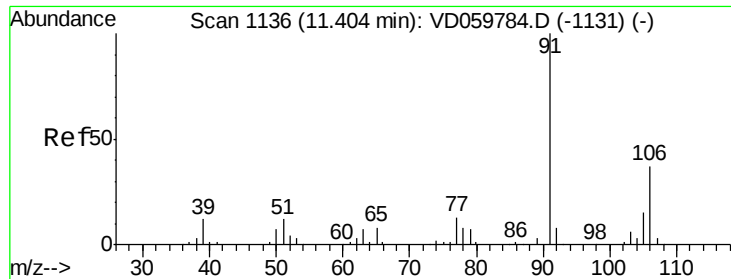
Tot Ion: 91 Resp: 124267
Ion Ratio Lower Upper
91 100
106 27.0 20.1 30.1



#68
m/p-Xylenes
Concen: 22.28 ug/l
RT: 11.01 min Scan# 1097
Delta R.T. 0.00 min
Lab File: VD059792.D
Acq: 15 Aug 2018 5:33

Tgt Ion: 106 Resp: 81301
Ion Ratio Lower Upper
106 100
91 241.7 197.4 296.0

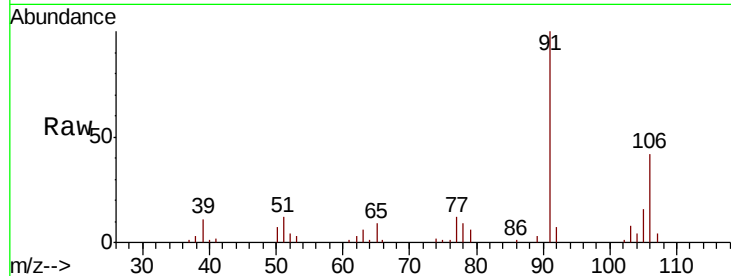




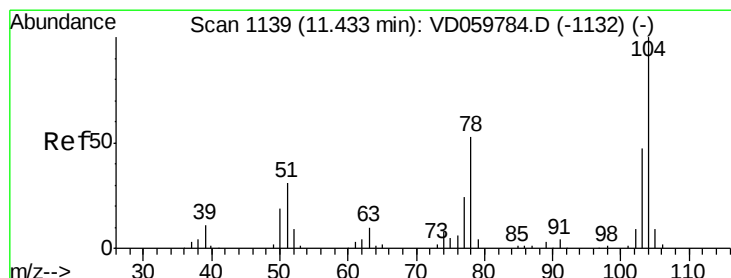
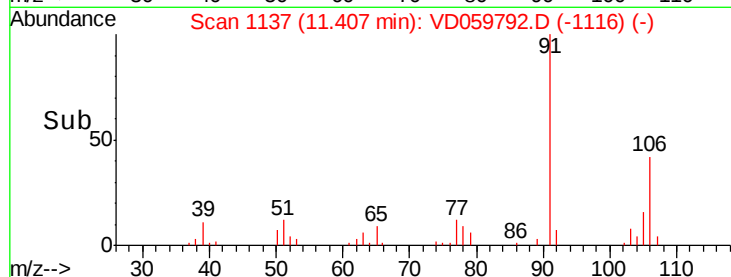
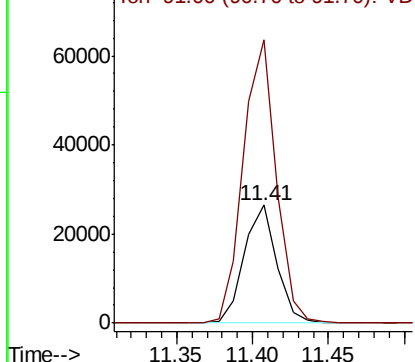
#69
o-Xylene
Concen: 11.24 ug/l
RT: 11.41 min Scan# 1137
Delta R.T. 0.00 min
Lab File: VD059792.D
Acq: 15 Aug 2018 5:33

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

Tot Ion:106 Resp: 39378
Ion Ratio Lower Upper
106 100
91 239.4 133.7 401.1

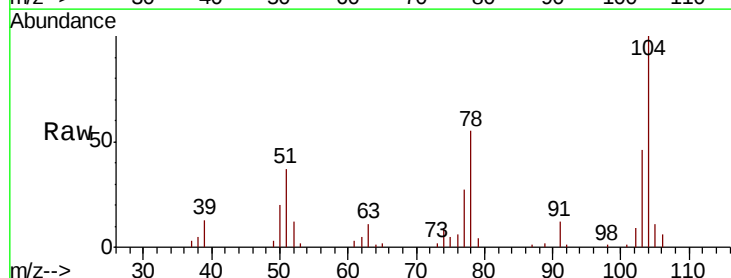


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

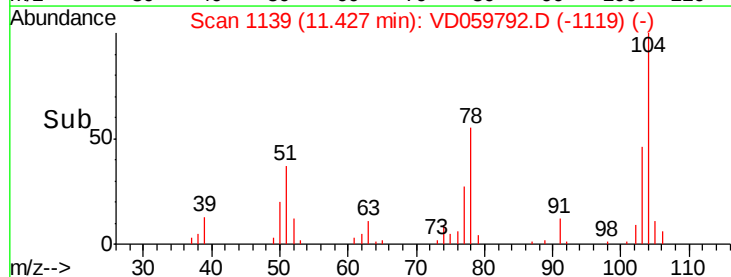
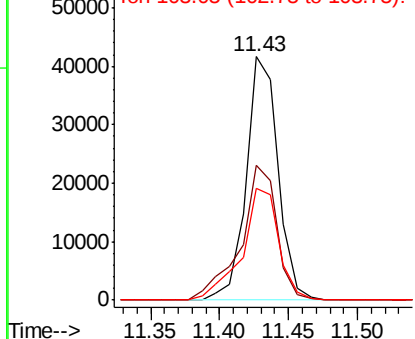


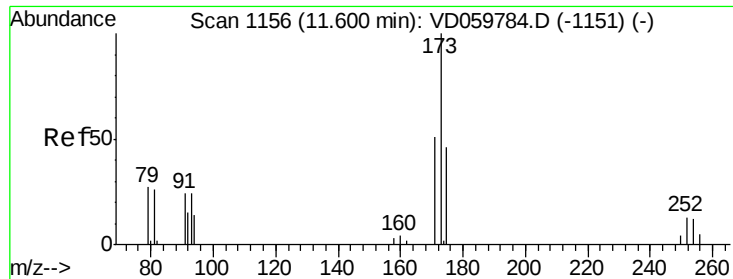
#70
Styrene
Concen: 10.82 ug/l
RT: 11.43 min Scan# 1139
Delta R.T. -0.01 min
Lab File: VD059792.D
Acq: 15 Aug 2018 5:33

Tgt Ion:104 Resp: 67182
Ion Ratio Lower Upper
104 100
78 55.3 42.6 64.0
103 45.9 37.8 56.6



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





#71

Bromoform

Concen: 9.89 ug/l

RT: 11.60 min Scan# 1157

Delta R.T. 0.00 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

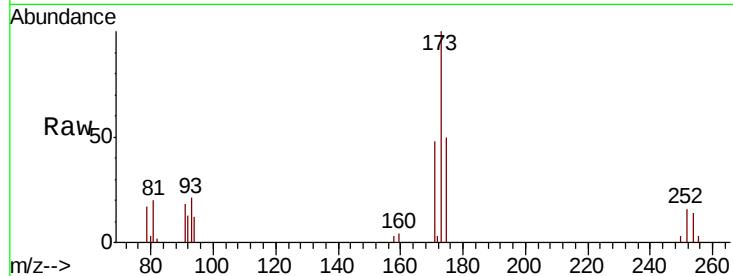
Tot Ion:173 Resp: 18115

Ion Ratio Lower Upper

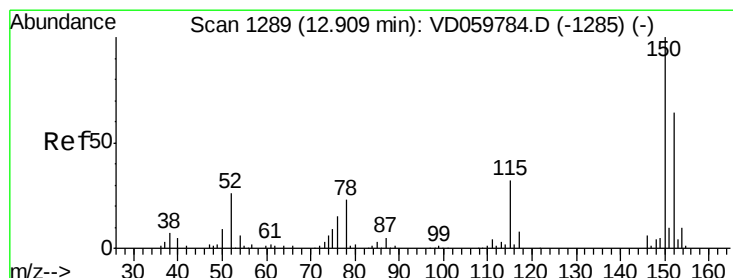
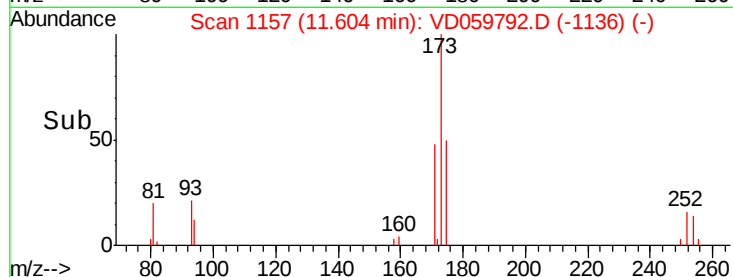
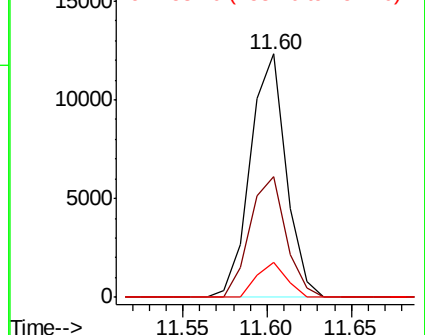
173 100

175 49.6 23.1 69.2

254 14.5 9.7 14.5



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: 50.00 ug/l

RT: 12.90 min Scan# 1289

Delta R.T. -0.01 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

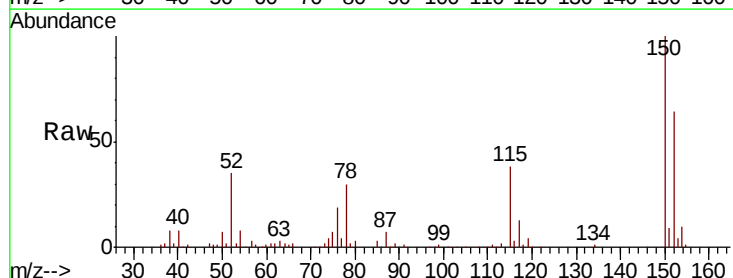
Tgt Ion:152 Resp: 162824

Ion Ratio Lower Upper

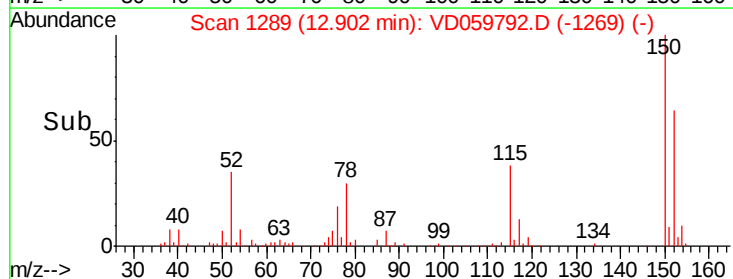
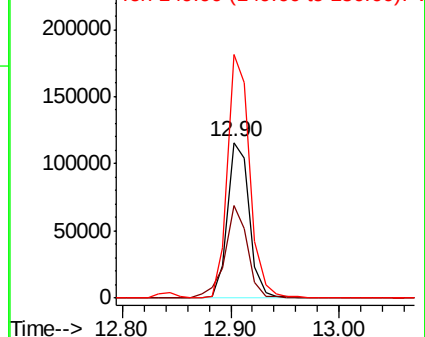
152 100

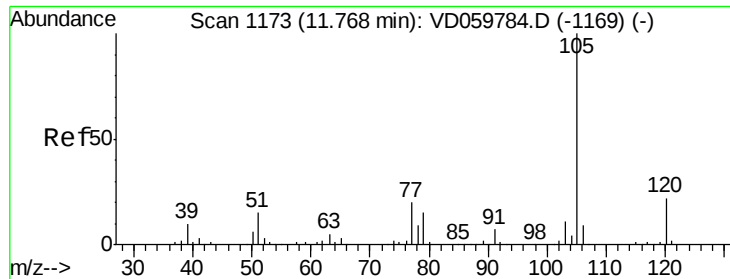
115 59.8 27.2 81.5

150 156.3 0.0 312.4



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: 11.42 ug/l

RT: 11.77 min Scan# 1174

Delta R.T. 0.00 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Instrument :

MSVOA_D

ClientSampleId :

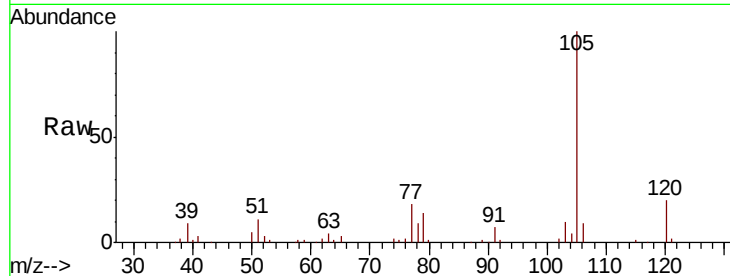
LOQ-SOIL-02-QT3-2018

Tot Ion:105 Resp: 117712

Ion Ratio Lower Upper

105 100

120 20.5 10.9 32.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

11.77

80000

60000

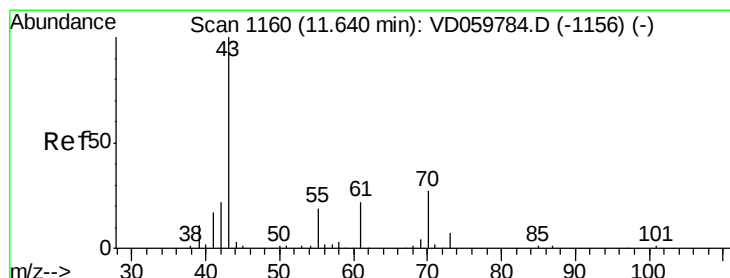
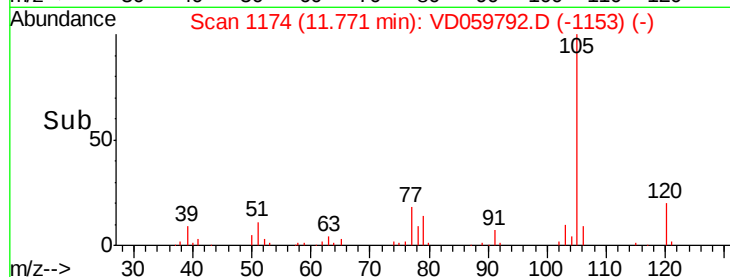
40000

20000

0

11.70 11.75 11.80 11.85

Time-->



#74

N-ethyl acetate

Concen: 10.83 ug/l

RT: 11.64 min Scan# 1161

Delta R.T. 0.00 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Tgt Ion: 43 Resp: 34226

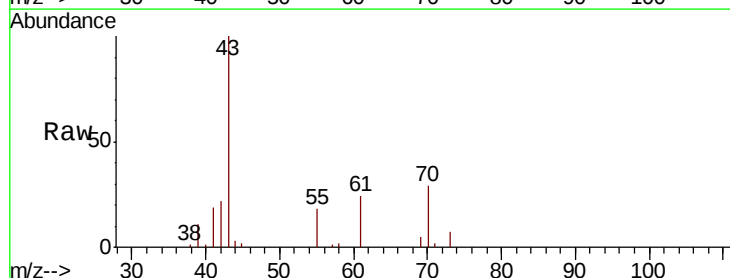
Ion Ratio Lower Upper

43 100

70 28.8 21.8 32.6

55 18.3 15.1 22.7

61 24.2 18.0 27.0



Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V

40000

30000

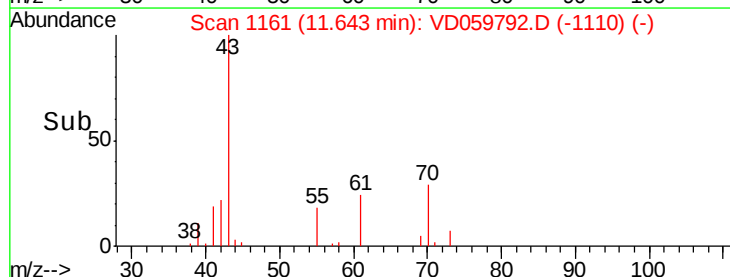
20000

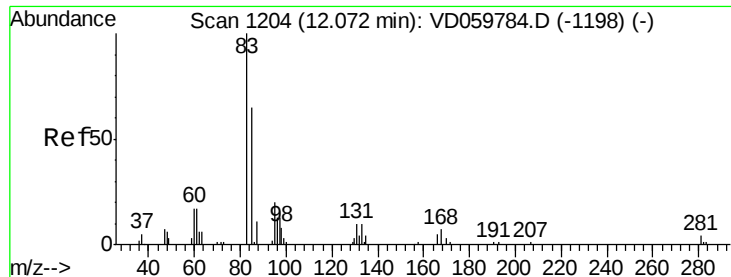
10000

0

11.60 11.65 11.70

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 11.87 ug/l

RT: 12.08 min Scan# 1205

Delta R.T. 0.00 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Instrument :

MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

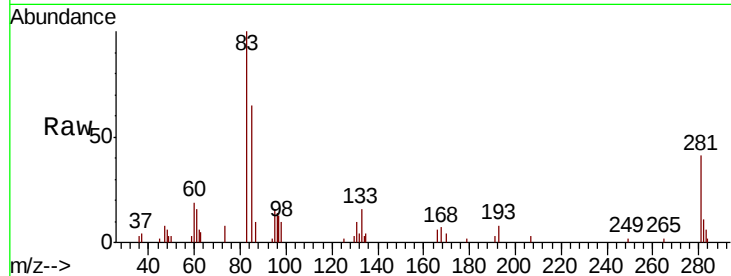
Tot Ion: 83 Resp: 24842

Ion Ratio Lower Upper

83 100

131 9.7 5.0 15.0

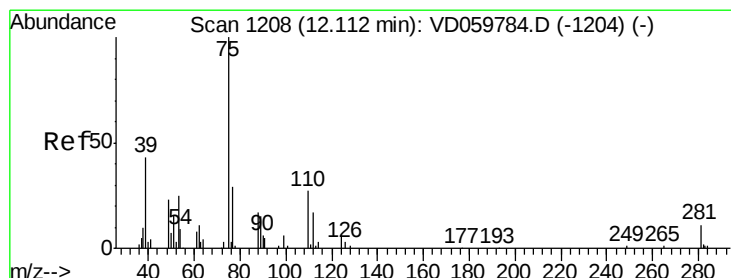
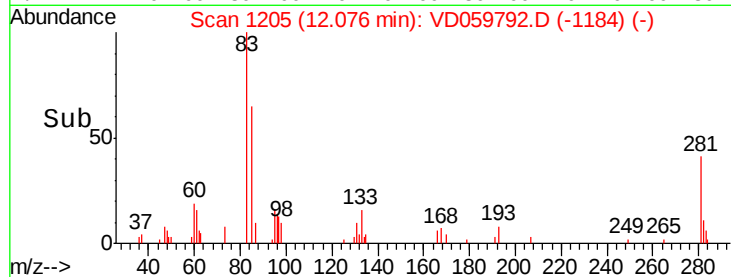
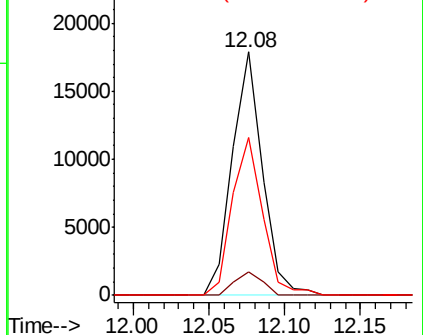
85 64.6 32.8 98.3



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: 11.37 ug/l

RT: 12.12 min Scan# 1209

Delta R.T. 0.00 min

Lab File: VD059792.D

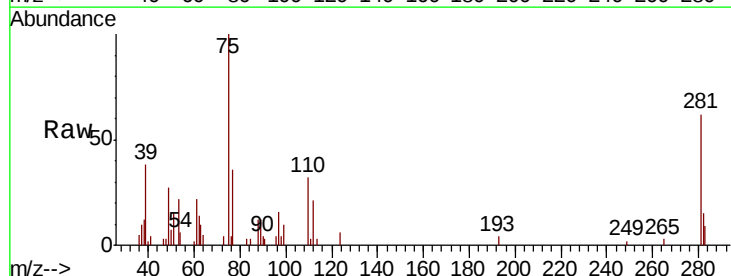
Acq: 15 Aug 2018 5:33

Tgt Ion: 75 Resp: 26271

Ion Ratio Lower Upper

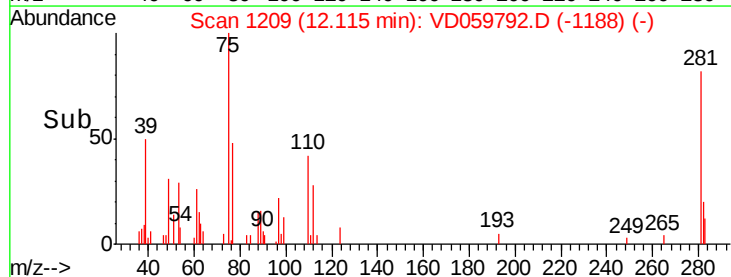
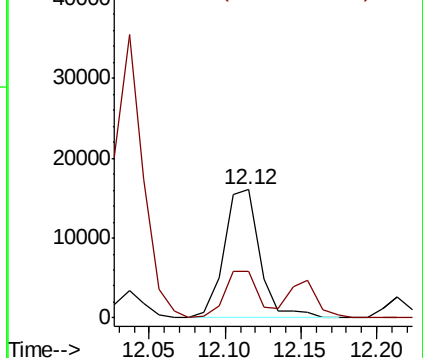
75 100

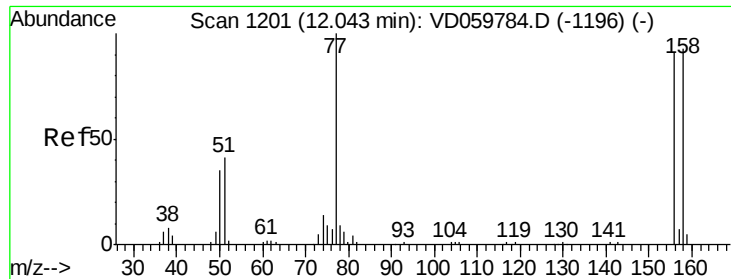
77 36.2 16.2 48.6



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

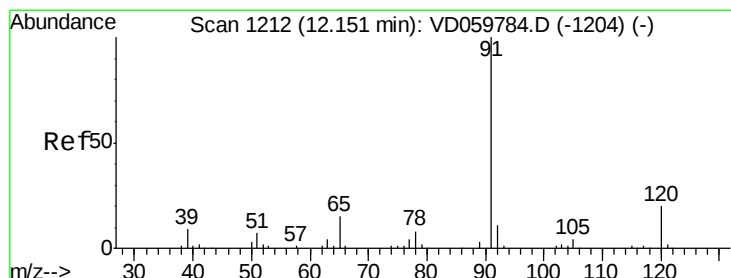
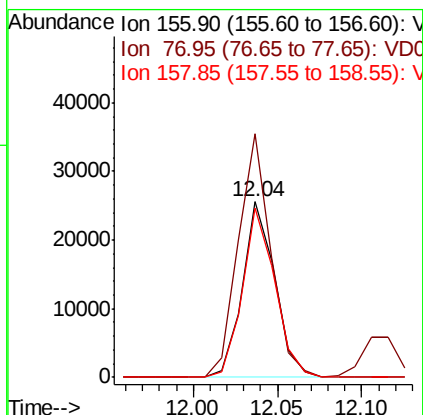
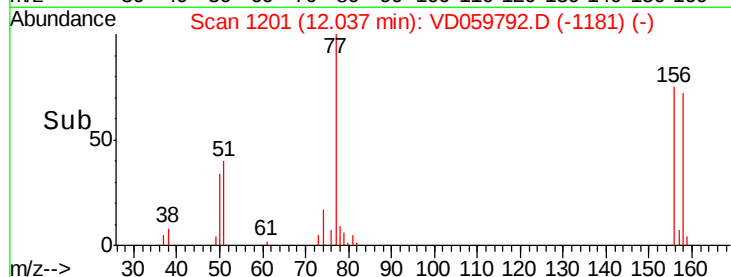
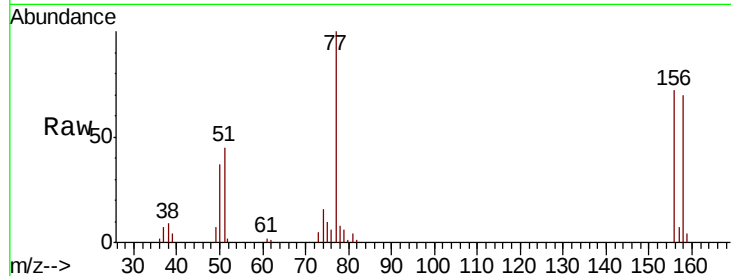




#77
Bromobenzene
Concen: 11.56 ug/l
RT: 12.04 min Scan# 1201
Delta R.T. -0.01 min
Lab File: VD059792.D
Acq: 15 Aug 2018 5:33

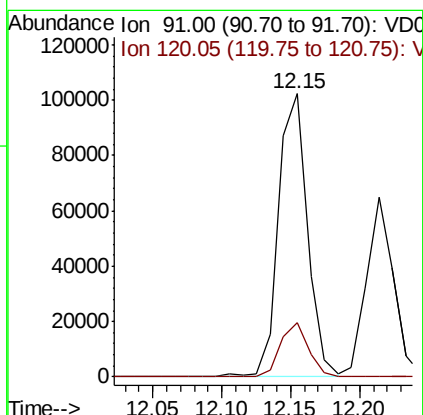
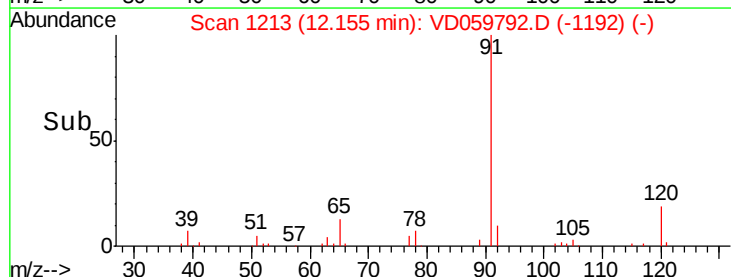
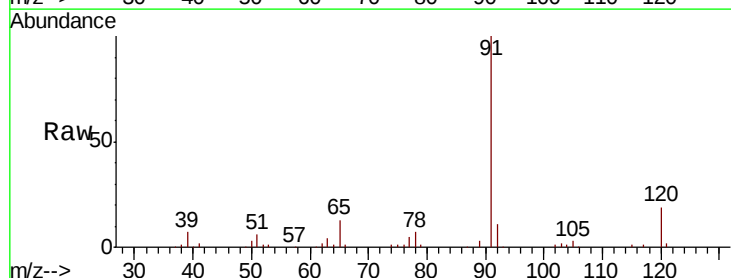
Instrument :
MSVOA_D
ClientSampleId :
LOQ-SOIL-02-QT3-2018

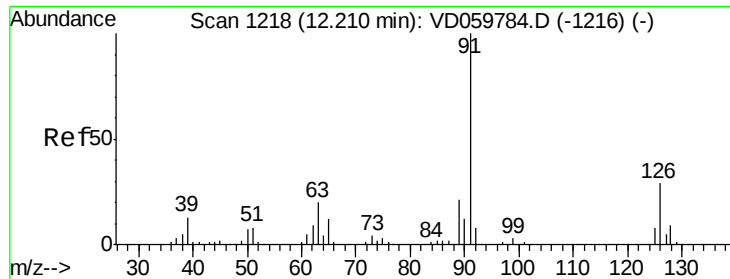
Tot Ion:156 Resp: 34055
Ion Ratio Lower Upper
156 100
77 138.6 54.9 164.8
158 96.6 51.2 153.6



#78
n-propylbenzene
Concen: 11.58 ug/l
RT: 12.15 min Scan# 1213
Delta R.T. 0.00 min
Lab File: VD059792.D
Acq: 15 Aug 2018 5:33

Tgt Ion: 91 Resp: 148976
Ion Ratio Lower Upper
91 100
120 19.1 9.8 29.4

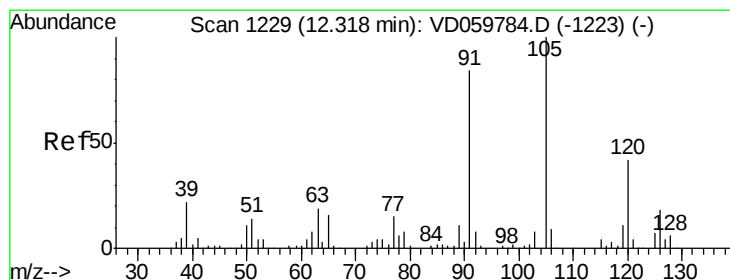
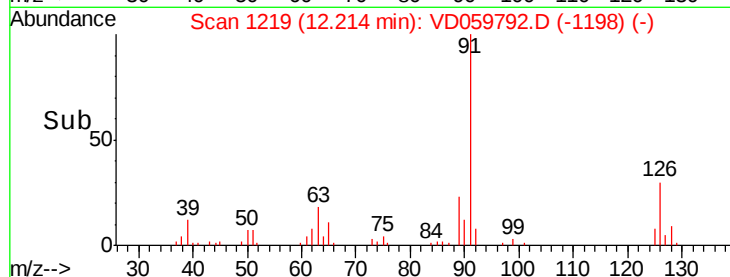
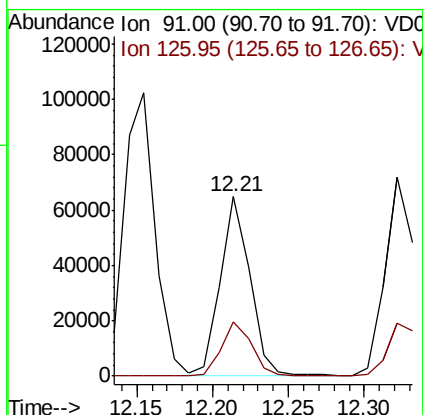
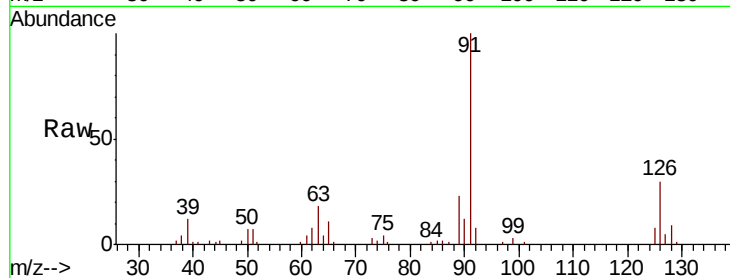




#79
 2-Chlorotoluene
 Concen: 11.33 ug/l
 RT: 12.21 min Scan# 1219
 Delta R.T. 0.00 min
 Lab File: VD059792.D
 Acq: 15 Aug 2018 5:33

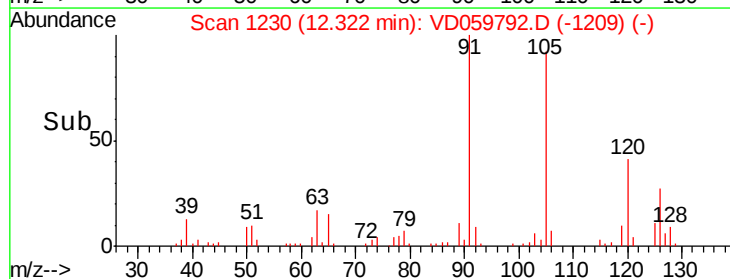
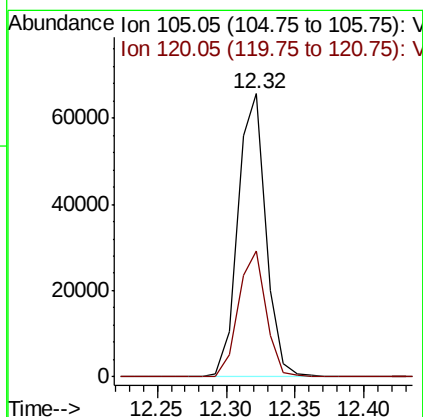
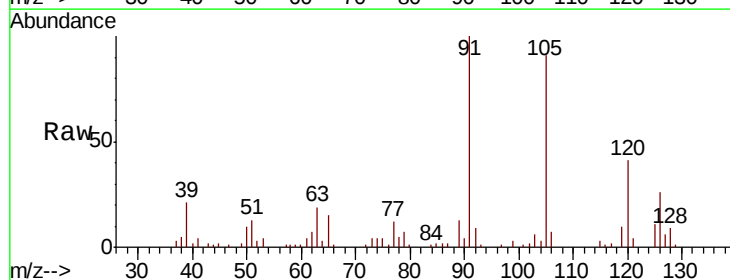
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

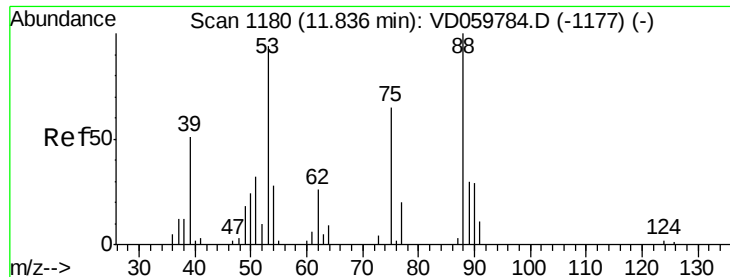
Tot Ion: 91 Resp: 87875
 Ion Ratio Lower Upper
 91 100
 126 30.5 14.0 41.9



#80
 1,3,5-Trimethylbenzene
 Concen: 11.22 ug/l
 RT: 12.32 min Scan# 1230
 Delta R.T. 0.00 min
 Lab File: VD059792.D
 Acq: 15 Aug 2018 5:33

Tgt Ion: 105 Resp: 92602
 Ion Ratio Lower Upper
 105 100
 120 44.7 20.8 62.5





#81

trans-1,4-Dichloro-2-butene

Concen: 10.51 ug/l

RT: 11.84 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Instrument :

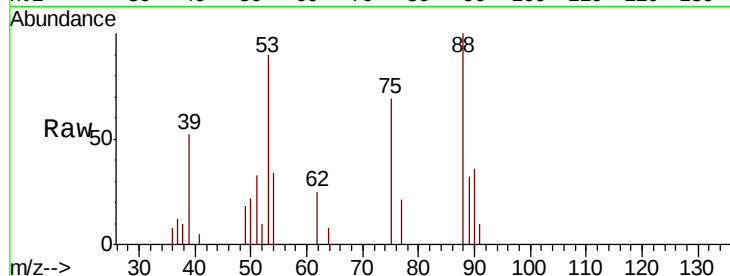
MSVOA_D

ClientSampleId :

LOQ-SOIL-02-QT3-2018

Tot Ion: 75 Resp: 5683

Ion	Ratio	Lower	Upper
75	100		
53	130.8	116.2	174.2
89	46.5	37.0	55.6

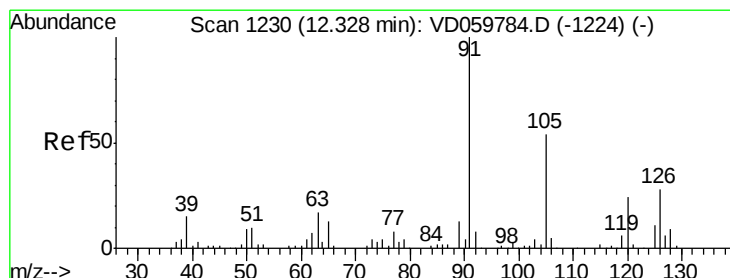
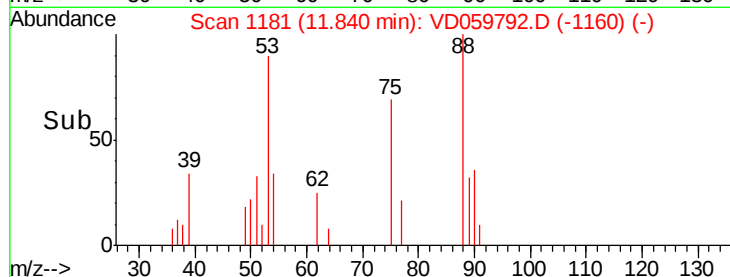
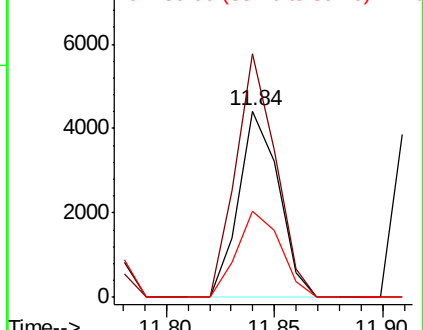


Abundance

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: 11.35 ug/l

RT: 12.32 min Scan# 1230

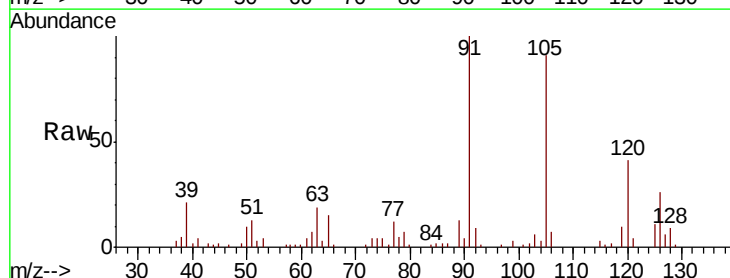
Delta R.T. -0.01 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Tgt Ion: 91 Resp: 99879

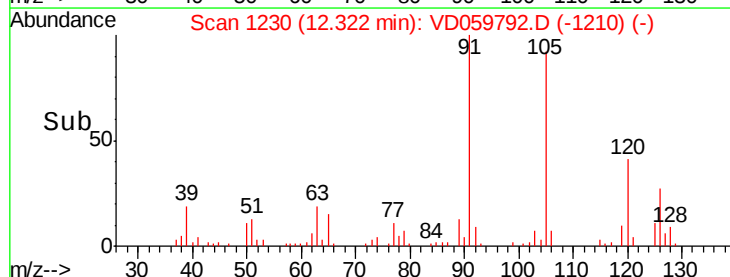
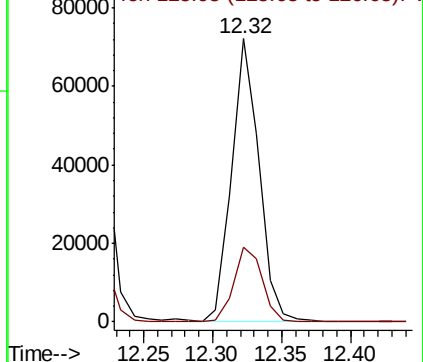
Ion	Ratio	Lower	Upper
91	100		
126	26.3	13.9	41.7

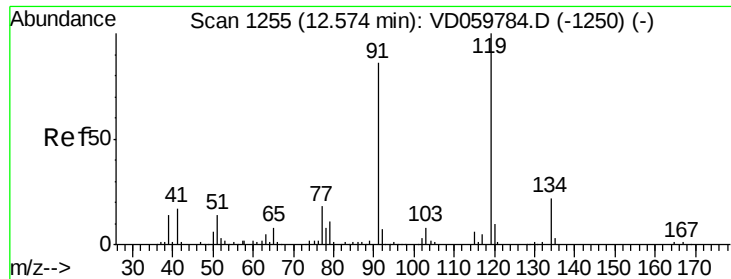


Abundance

Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

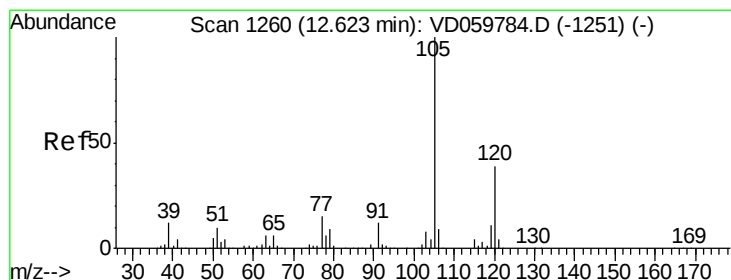
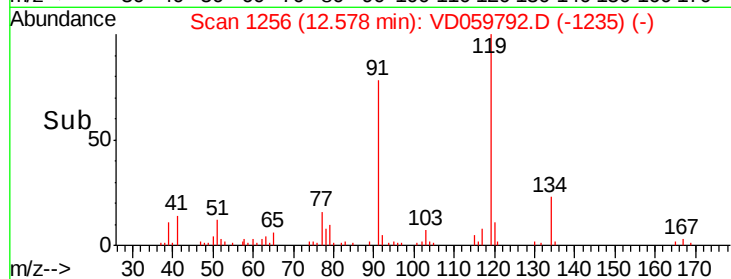
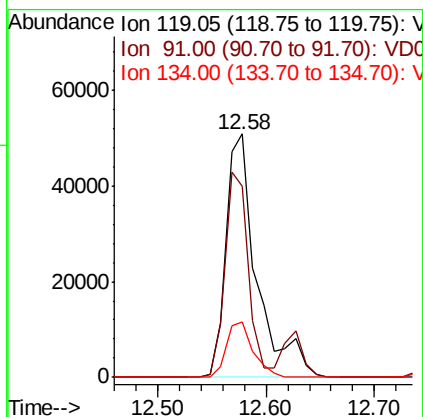
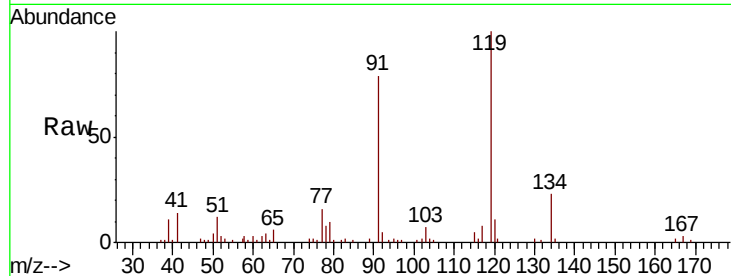




#83
 tert-Butylbenzene
 Concen: 11.02 ug/l
 RT: 12.58 min Scan# 1256
 Delta R.T. 0.00 min
 Lab File: VD059792.D
 Acq: 15 Aug 2018 5:33

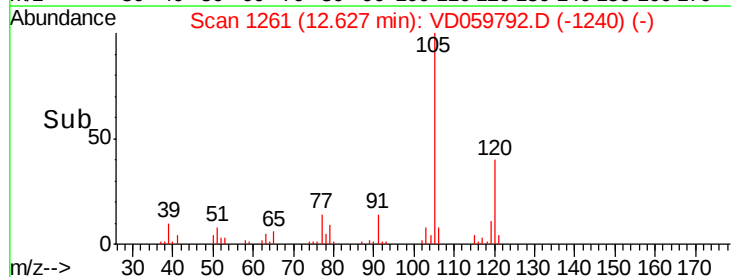
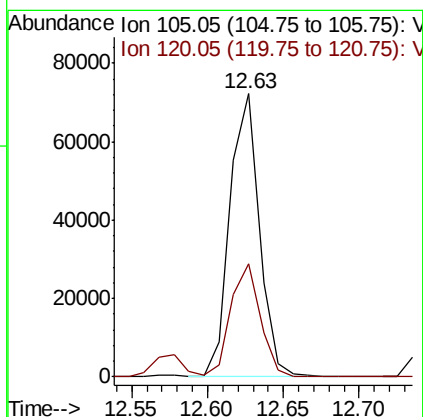
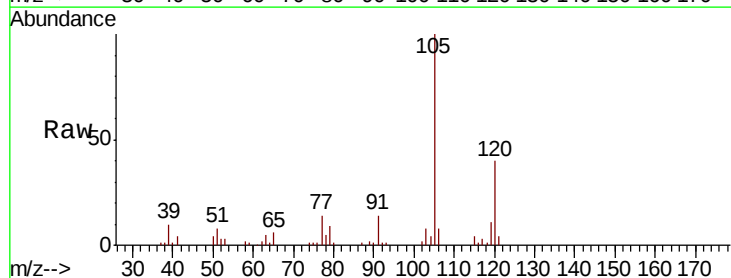
Instrument :
 MSVOA_D
 ClientSampleId :
 LOQ-SOIL-02-QT3-2018

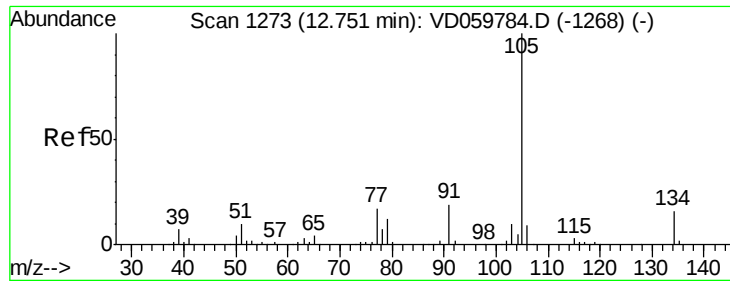
Tot Ion:119 Resp: 100557
 Ion Ratio Lower Upper
 119 100
 91 78.6 43.1 129.3
 134 22.8 11.2 33.5



#84
 1,2,4-Trimethylbenzene
 Concen: 10.97 ug/l
 RT: 12.63 min Scan# 1261
 Delta R.T. 0.00 min
 Lab File: VD059792.D
 Acq: 15 Aug 2018 5:33

Tgt Ion:105 Resp: 97567
 Ion Ratio Lower Upper
 105 100
 120 39.8 19.6 58.8





#85

sec-Butylbenzene

Concen: 11.56 ug/l

RT: 12.75 min Scan# 1274

Delta R.T. 0.00 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

Instrument :

MSVOA_D

ClientSampleId :

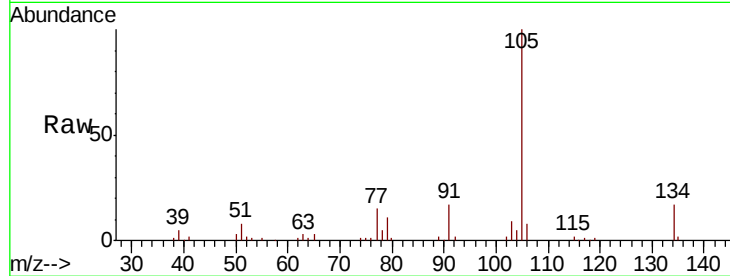
LOQ-SOIL-02-QT3-2018

Tot Ion:105 Resp: 122225

Ion Ratio Lower Upper

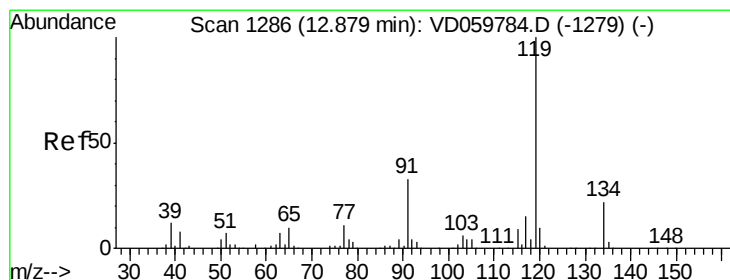
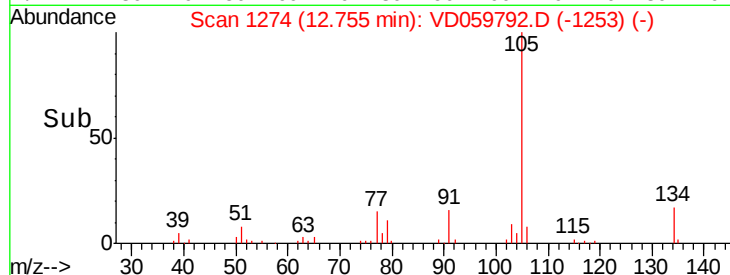
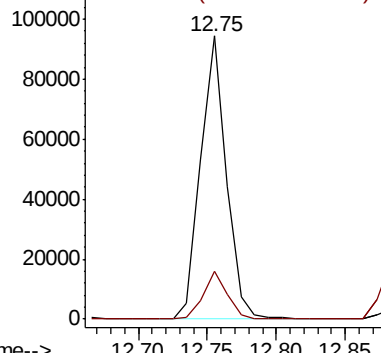
105 100

134 17.0 8.2 24.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 11.05 ug/l

RT: 12.88 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VD059792.D

Acq: 15 Aug 2018 5:33

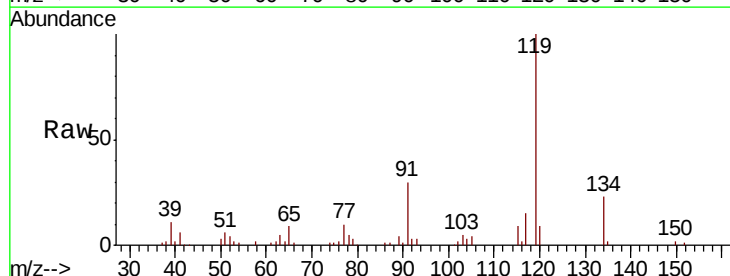
Tgt Ion:119 Resp: 97794

Ion Ratio Lower Upper

119 100

134 23.0 10.9 32.6

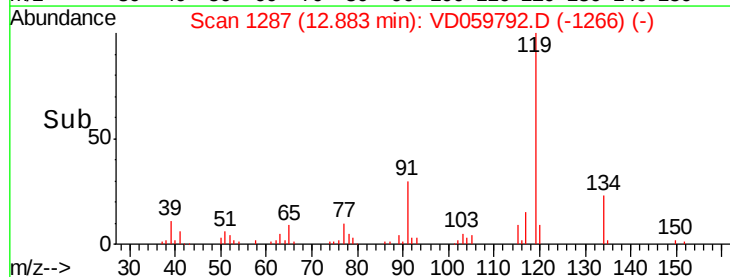
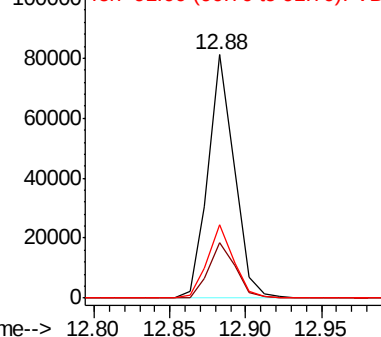
91 30.0 16.4 49.4

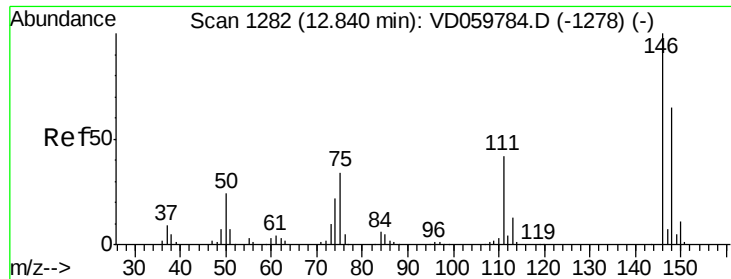


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

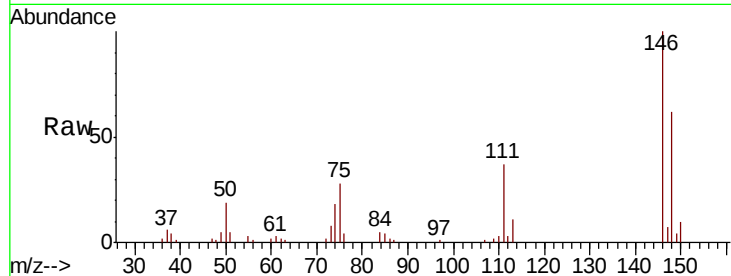




#87
 1,3-Dichlorobenzene
 Concen: 11.29 ug/l
 RT: 12.84 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: VD059792.D
 Acq: 15 Aug 2018 5:33

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.7	20.9	62.8
148	61.8	32.6	97.8

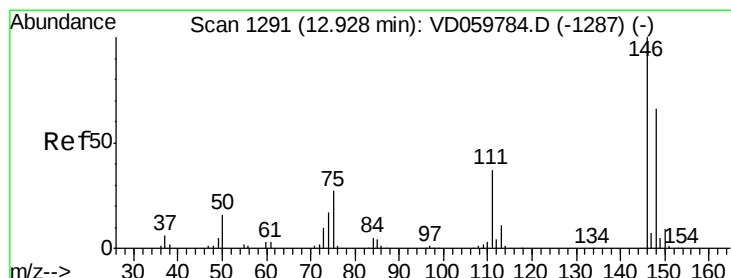
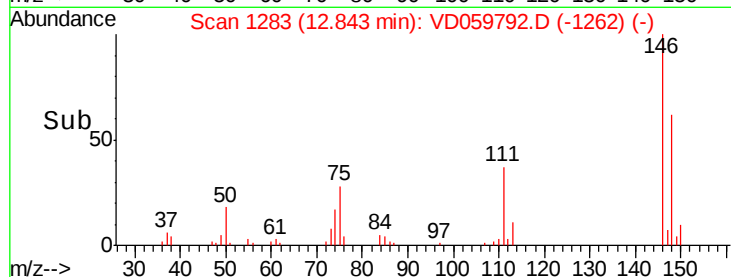
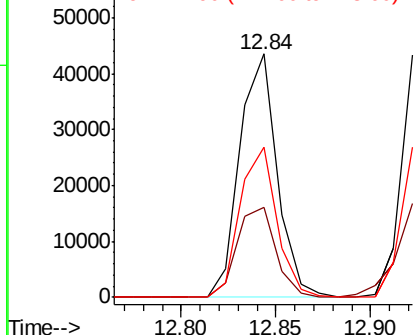


Abundance

Ion 145.95 (145.65 to 146.65): V

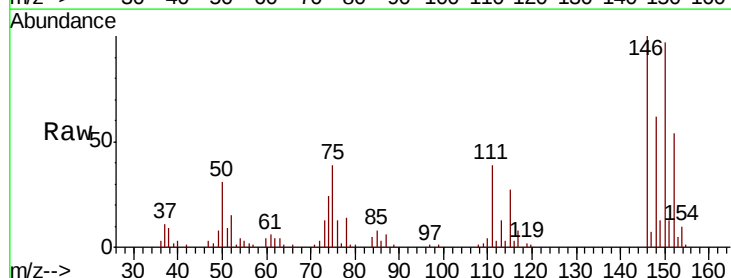
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88
 1,4-Dichlorobenzene
 Concen: 11.12 ug/l
 RT: 12.92 min Scan# 1291
 Delta R.T. -0.01 min
 Lab File: VD059792.D
 Acq: 15 Aug 2018 5:33

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.0	18.6	55.6
148	61.9	33.0	99.0

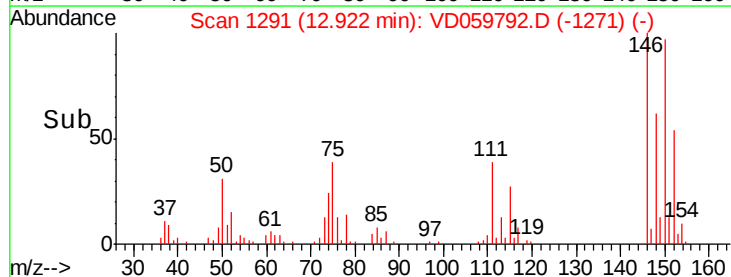
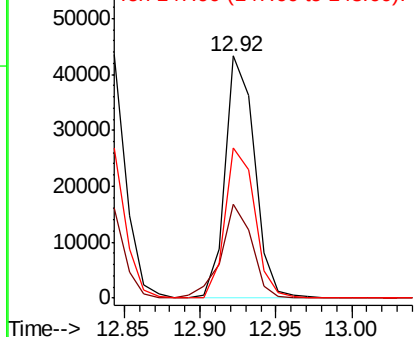


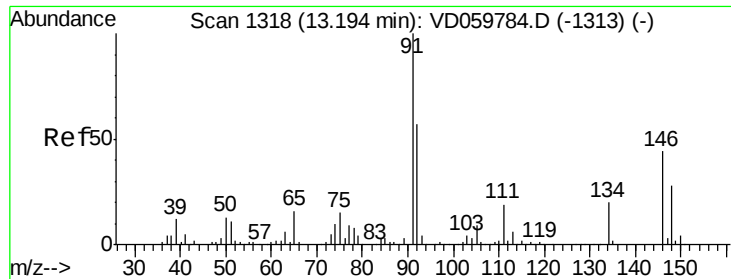
Abundance

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

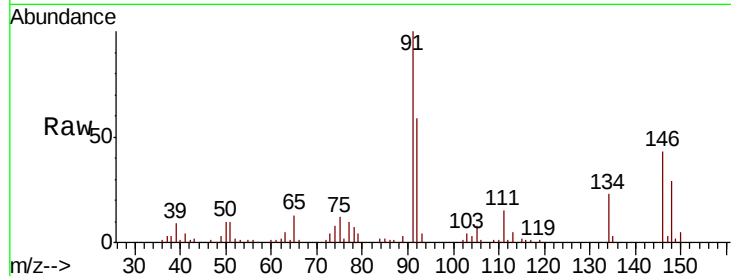




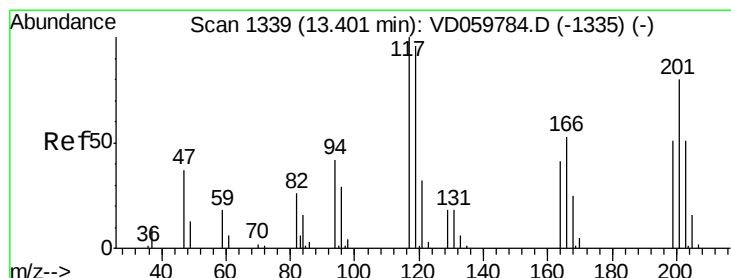
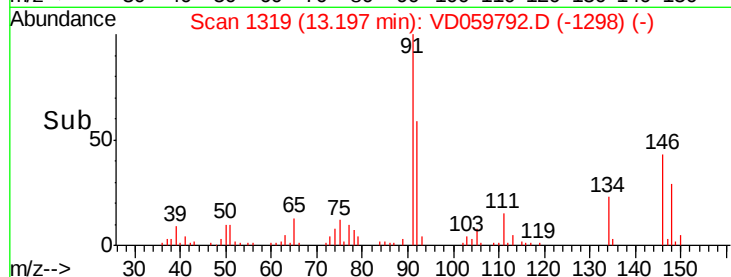
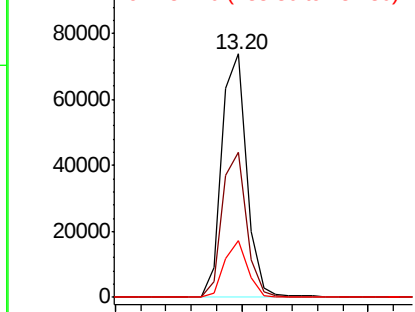
#89
n-Butylbenzene
Concen: 11.31 ug/l
RT: 13.20 min Scan# 1319
Delta R.T. 0.00 min
Lab File: VD059792.D
Acq: 15 Aug 2018 5:33

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

Tot Ion: 91 Resp: 101166
Ion Ratio Lower Upper
91 100
92 59.4 28.4 85.3
134 23.3 10.2 30.4

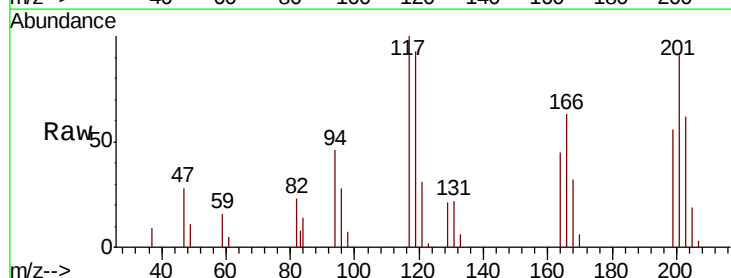


Abundance Ion 91.00 (90.70 to 91.70): V
Ion 92.00 (91.70 to 92.70): V
Ion 134.10 (133.80 to 134.80): V

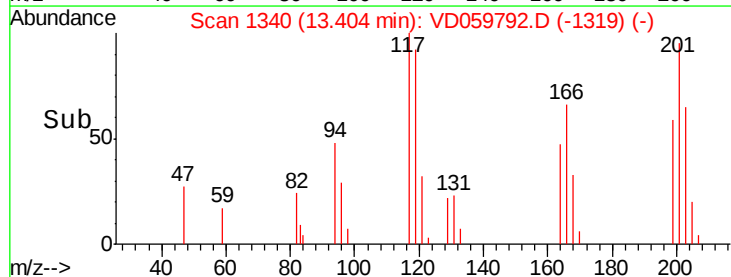
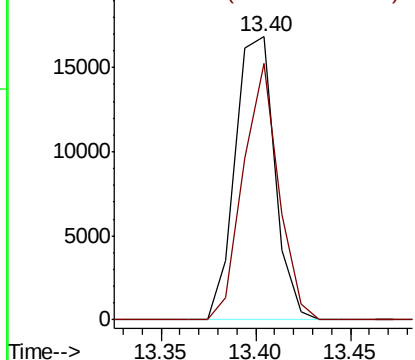


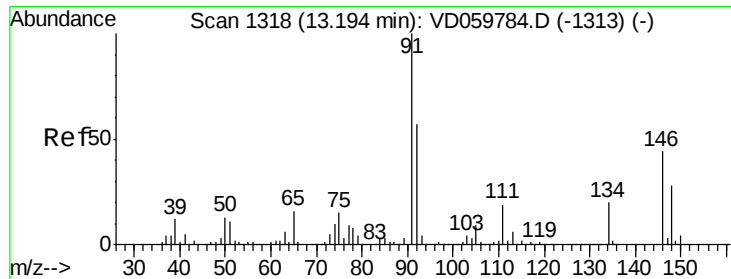
#90
Hexachloroethane
Concen: 10.94 ug/l
RT: 13.40 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VD059792.D
Acq: 15 Aug 2018 5:33

Tgt Ion: 117 Resp: 24281
Ion Ratio Lower Upper
117 100
201 90.8 39.9 119.7



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 200.75 (200.45 to 201.45): V

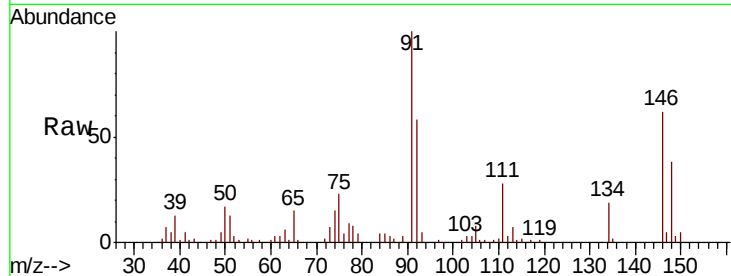




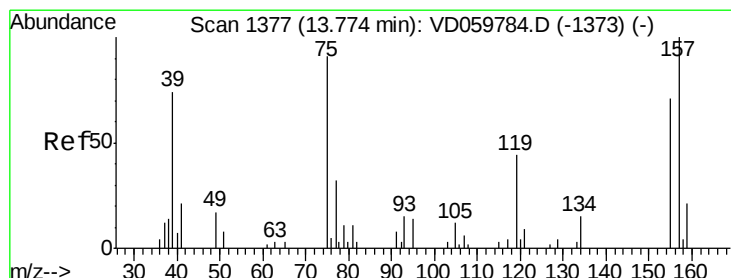
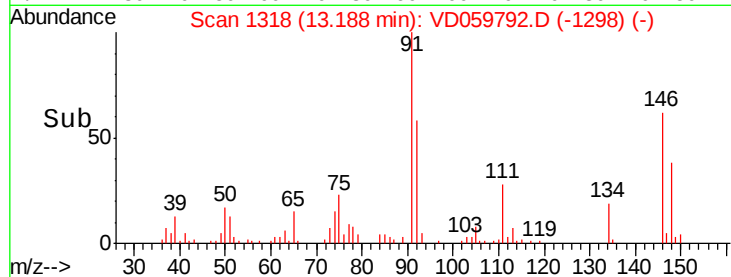
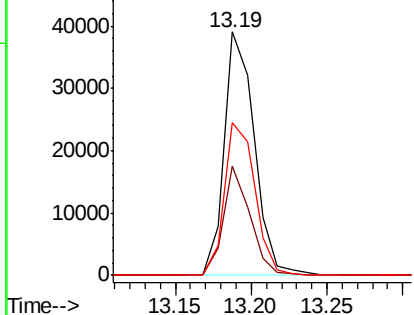
#91
 1,2-Dichlorobenzene
 Concen: 12.36 ug/l
 RT: 13.19 min Scan# 1318
 Delta R.T. -0.01 min
 Lab File: VD059792.D
 Acq: 15 Aug 2018 5:33

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

Tot Ion:146 Resp: 53697
 Ion Ratio Lower Upper
 146 100
 111 44.8 21.1 63.1
 148 62.5 32.0 96.2

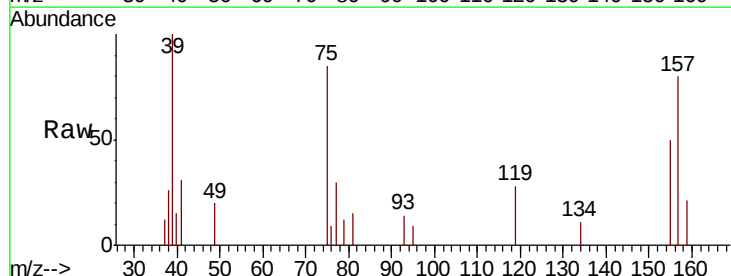


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

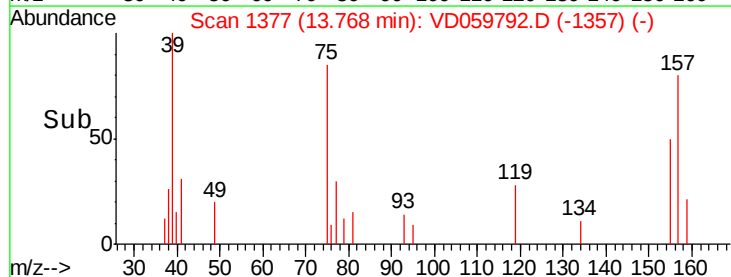
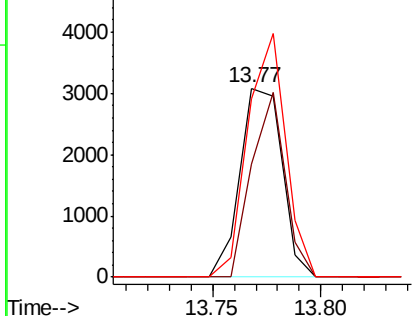


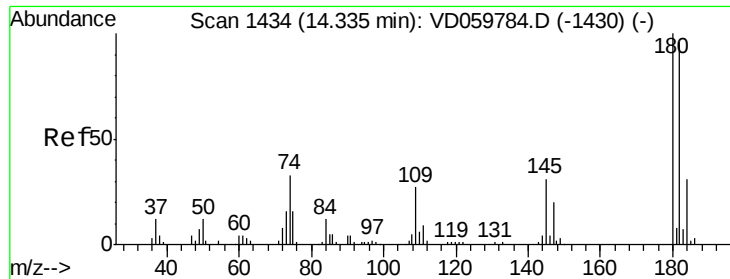
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 11.16 ug/l
 RT: 13.77 min Scan# 1377
 Delta R.T. -0.01 min
 Lab File: VD059792.D
 Acq: 15 Aug 2018 5:33

Tgt Ion: 75 Resp: 4167
 Ion Ratio Lower Upper
 75 100
 155 59.5 39.0 117.0
 157 94.0 54.8 164.3



Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 154.90 (154.60 to 155.60): V
 Ion 156.85 (156.55 to 157.55): V

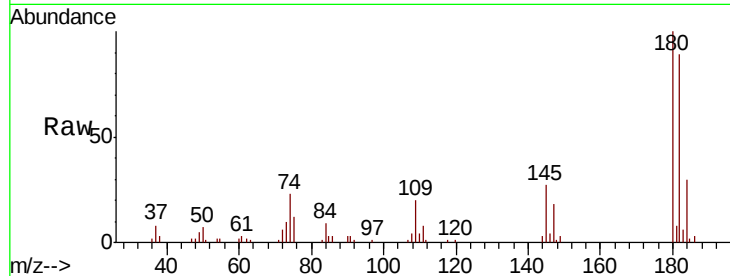




#93
 1,2,4-Trichlorobenzene
 Concen: 11.47 ug/l
 RT: 14.34 min Scan# 1435
 Delta R.T. 0.00 min
 Lab File: VD059792.D
 Acq: 15 Aug 2018 5:33

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

Tot Ion	Ratio	Lower	Upper
180	100		
182	88.9	48.0	144.0
145	27.2	15.5	46.5

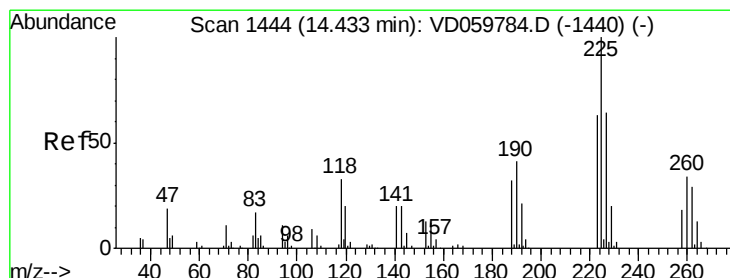
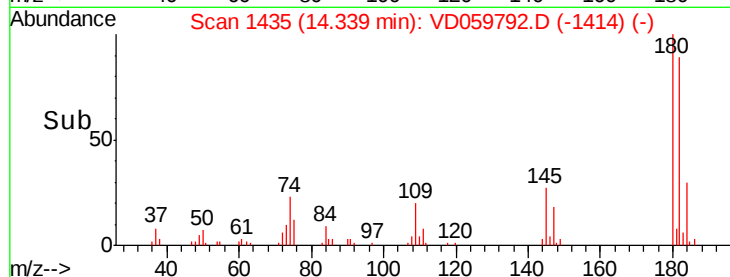
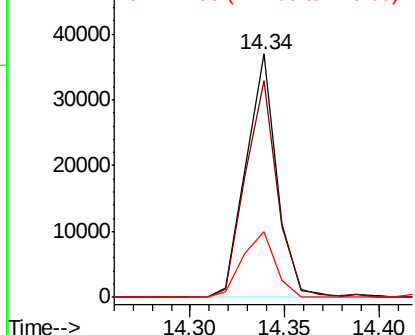


Abundance

Ion 179.85 (179.55 to 180.55): V

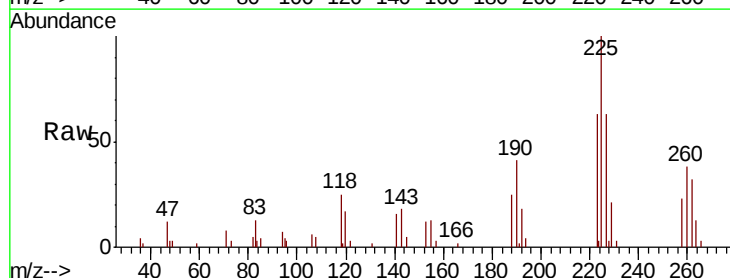
Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V



#94
 Hexachlorobutadiene
 Concen: 9.86 ug/l
 RT: 14.44 min Scan# 1445
 Delta R.T. 0.00 min
 Lab File: VD059792.D
 Acq: 15 Aug 2018 5:33

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.9	31.4	94.2
227	63.4	32.1	96.5

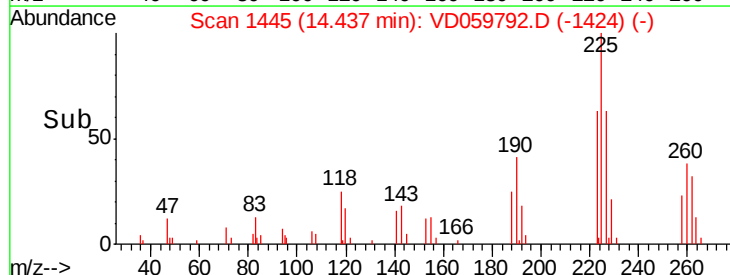
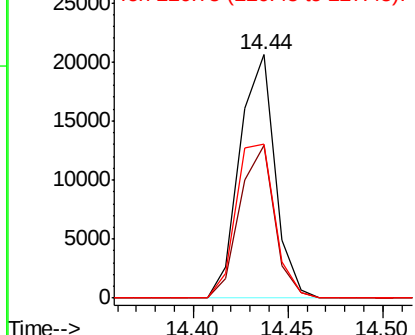


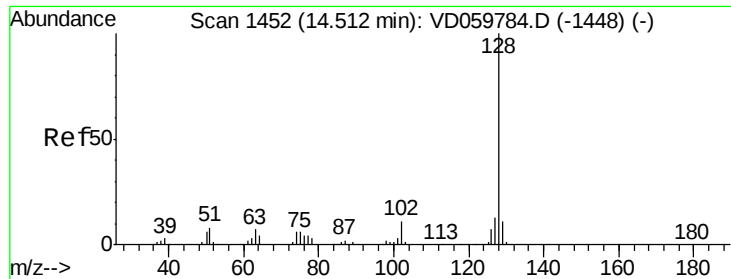
Abundance

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

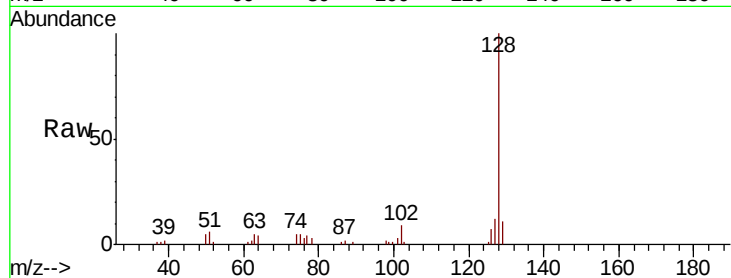




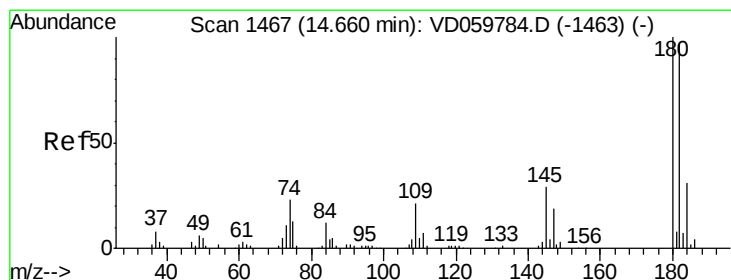
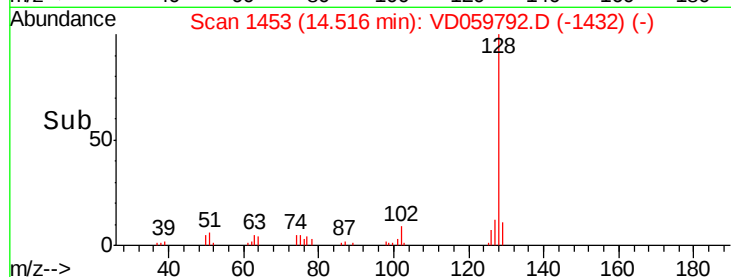
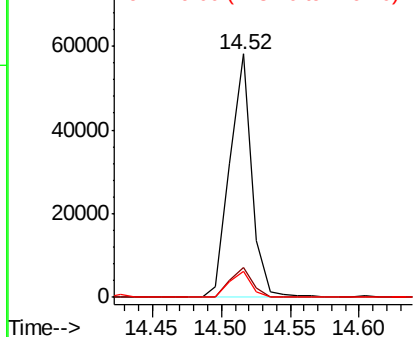
#95
Naphthalene
Concen: 11.60 ug/l
RT: 14.52 min Scan# 1453
Delta R.T. 0.00 min
Lab File: VD059792.D
Acq: 15 Aug 2018 5:33

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

Tot Ion:128 Resp: 64531
Ion Ratio Lower Upper
128 100
127 12.5 10.3 15.5
129 10.9 9.1 13.7

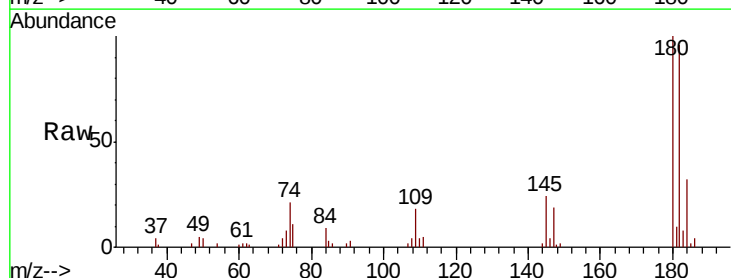


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 10.47 ug/l
RT: 14.66 min Scan# 1468
Delta R.T. 0.00 min
Lab File: VD059792.D
Acq: 15 Aug 2018 5:33

Tgt Ion:180 Resp: 33569
Ion Ratio Lower Upper
180 100
182 96.1 48.5 145.5
145 23.9 14.3 42.9



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

